Full wwPDB EM Validation Report ⓘ

May 11, 2024 – 04:00 PM EDT

PDB ID	:	8UPL
EMDB ID	:	EMD-42451
Title	:	Cryo-EM structure of a Clockwise 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	:	2023-10-22
Resolution	:	5.40 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:

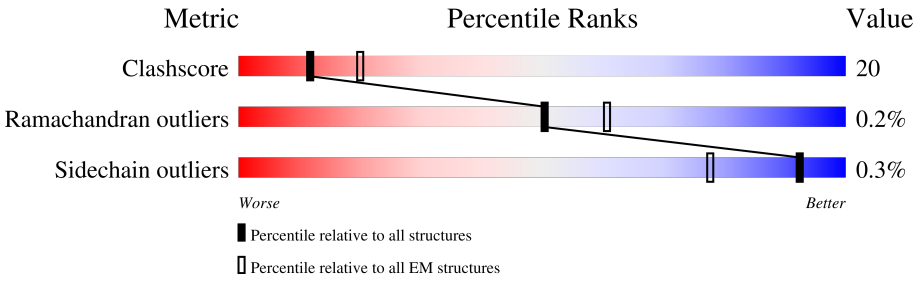
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance

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

The reported resolution of this entry is 5.40 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 <=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	5% 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	5% 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	92%
2	B1	328	17% 62% 38%
2	B2	328	17% 63% 37%
2	B3	328	18% 63% 37%
2	B4	328	18% 60% 40%
2	B5	328	18% 61% 39%
2	B6	328	18% 62% 38%
2	B7	328	18% 64% 36%
2	B8	328	18% 62% 38%
2	B9	328	18% 63% 37%
2	BA	328	17% 63% 37%
2	BB	328	18% 63% 37%
2	BC	328	18% 63% 37%
2	BD	328	18% 63% 37%
2	BE	328	17% 62% 38%
2	BF	328	18% 63% 37%
2	BG	328	18% 62% 38%
2	BH	328	18% 65% 35%
2	BI	328	18% 62% 38%
2	BJ	328	18% 64% 36%
2	BK	328	18% 63% 37%
2	BL	328	17% 62% 38%
2	BM	328	18% 61% 39%
2	BN	328	18% 63% 37%
2	BO	328	18% 63% 37%

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Mol	Chain	Length	Quality of chain
2	BP	328	18% 63% 37%
2	BQ	328	18% 63% 37%
2	BR	328	18% 63% 37%
2	BS	328	18% 62% 38%
2	BT	328	18% 63% 37%
2	BU	328	18% 62% 38%
2	BV	328	18% 62% 38%
2	BW	328	18% 63% 36%
2	BX	328	18% 63% 37%
2	BY	328	18% 62% 38%
3	C1	334	51% 34% 14%
3	C2	334	53% 33% 14%
3	C3	334	54% 32% 14%
3	C4	334	52% 34% 14%
3	C5	334	54% 32% 14%
3	C6	334	55% 31% 14%
3	C7	334	52% 34% 14%
3	C8	334	52% 34% 14%
3	C9	334	53% 33% 14%
3	CA	334	53% 33% 14%
3	CB	334	53% 33% 14%
3	CC	334	51% 34% 14%
3	CD	334	52% 34% 14%
3	CE	334	52% 34% 14%
3	CF	334	53% 33% 14%

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Mol	Chain	Length	Quality of chain
3	CG	334	51% 34% 14%
3	CH	334	52% 34% 14%
3	CI	334	52% 34% 14%
3	CJ	334	52% 34% 14%
3	CK	334	53% 33% 14%
3	CL	334	52% 34% 14%
3	CM	334	54% 32% 14%
3	CN	334	53% 33% 14%
3	CO	334	52% 34% 14%
3	CP	334	52% 34% 14%
3	CQ	334	54% 32% 14%
3	CR	334	53% 33% 14%
3	CS	334	52% 34% 14%
3	CT	334	52% 34% 14%
3	CU	334	51% 34% 14%
3	CV	334	51% 35% 14%
3	CW	334	54% 31% 14%
3	CX	334	52% 34% 14%
3	CY	334	53% 33% 14%
4	D1	137	32% 28% 39%
4	D2	137	31% 30% 39%
4	D3	137	31% 30% 39%
4	D4	137	31% 28% 39%
4	D5	137	34% 27% 39%
4	D6	137	34% 27% 39%

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Mol	Chain	Length	Quality of chain
4	D7	137	35% 26% 39%
4	D8	137	32% 28% 39%
4	D9	137	32% 28% 39%
4	DA	137	33% 28% 39%
4	DB	137	31% 29% 39%
4	DC	137	32% 28% 39%
4	DD	137	38% 23% 39%
4	DE	137	31% 30% 39%
4	DF	137	31% 30% 39%
4	DG	137	33% 28% 39%
4	DH	137	31% 29% 39%
4	DI	137	33% 28% 39%
4	DJ	137	35% 26% 39%
4	DK	137	31% 29% 39%
4	DL	137	33% 27% 39%
4	DM	137	37% 23% 39%
4	DN	137	31% 29% 39%
4	DO	137	34% 26% 39%
4	DP	137	32% 28% 39%
4	DQ	137	32% 28% 39%
4	DR	137	34% 26% 39%
4	DS	137	32% 28% 39%
4	DT	137	33% 28% 39%
4	DU	137	37% 23% 39%
4	DV	137	33% 28% 39%

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Mol	Chain	Length	Quality of chain
4	DW	137	31% 29% 39%
4	DX	137	34% 26% 39%
4	DY	137	29% 31% 39%
4	E1	137	28% 28% 42%
4	E2	137	31% 26% 42%
4	E3	137	26% 31% 42%
4	E4	137	31% 26% 42%
4	E5	137	28% 28% 42%
4	E6	137	30% 26% 42%
4	E7	137	29% 27% 42%
4	E8	137	28% 28% 42%
4	E9	137	29% 28% 42%
4	EA	137	30% 27% 42%
4	EB	137	28% 28% 42%
4	EC	137	28% 28% 42%
4	ED	137	29% 28% 42%
4	EE	137	29% 26% 42%
4	EF	137	29% 27% 42%
4	EG	137	26% 31% 42%
4	EH	137	29% 27% 42%
4	EI	137	28% 28% 42%
4	EJ	137	31% 26% 42%
4	EK	137	29% 27% 42%
4	EL	137	31% 26% 42%
4	EM	137	29% 28% 42%

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Mol	Chain	Length	Quality of chain
4	EN	137	31% 26% 42%
4	EO	137	31% 26% 42%
4	EP	137	29% 28% 42%
4	EQ	137	28% 28% 42%
4	ER	137	26% 30% 42%
4	ES	137	29% 27% 42%
4	ET	137	28% 28% 42%
4	EU	137	31% 26% 42%
4	EV	137	26% 31% 42%
4	EW	137	31% 26% 42%
4	EX	137	31% 26% 42%
4	EY	137	28% 29% 42%
4	F1	137	28% 34% 38%
4	F2	137	33% 29% 38%
4	F3	137	33% 28% 38%
4	F4	137	34% 28% 38%
4	F5	137	31% 31% 38%
4	F6	137	33% 29% 38%
4	F7	137	28% 34% 38%
4	F8	137	30% 31% 38%
4	F9	137	31% 30% 38%
4	FA	137	30% 32% 38%
4	FB	137	31% 31% 38%
4	FC	137	25% 36% 38%
4	FD	137	28% 33% 38%

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Mol	Chain	Length	Quality of chain
4	FE	137	30% 31% 38%
4	FF	137	31% 30% 38%
4	FG	137	28% 34% 38%
4	FH	137	30% 32% 38%
4	FI	137	31% 31% 38%
4	FJ	137	31% 31% 38%
4	FK	137	32% 29% 38%
4	FL	137	32% 30% 38%
4	FM	137	30% 32% 38%
4	FN	137	33% 29% 38%
4	FO	137	29% 32% 38%
4	FP	137	31% 31% 38%
4	FQ	137	30% 31% 38%
4	FR	137	28% 34% 38%
4	FS	137	31% 31% 38%
4	FT	137	30% 32% 38%
4	FU	137	30% 32% 38%
4	FV	137	32% 30% 38%
4	FW	137	34% 28% 38%
4	FX	137	31% 30% 38%
4	FY	137	34% 27% 38%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 243644 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
1	A1	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A2	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A3	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A4	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A5	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A6	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A7	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A8	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	A9	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AA	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AB	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AC	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AD	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AE	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AF	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AG	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AH	44	Total	C	N	O	S	0	0
			367	218	77	69	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AI	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AJ	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AK	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AL	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AM	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AN	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AO	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AP	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AQ	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AR	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AS	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AT	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AU	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AV	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AW	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AX	44	Total	C	N	O	S	0	0
			367	218	77	69	3		
1	AY	44	Total	C	N	O	S	0	0
			367	218	77	69	3		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B2	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	B3	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B4	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B5	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B6	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B7	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B8	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	B9	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BA	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BB	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BC	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BD	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BE	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BF	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BG	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BH	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BI	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BJ	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BK	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BL	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BM	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BN	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	BO	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BP	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BQ	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BR	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BS	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BT	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BU	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BV	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BW	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BX	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		
2	BY	328	Total	C	N	O	S	0	0
			2566	1594	452	510	10		

There are 102 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B1	?	-	PRO	deletion	UNP P0A1J9
B1	?	-	ALA	deletion	UNP P0A1J9
B1	?	-	ALA	deletion	UNP P0A1J9
B2	?	-	PRO	deletion	UNP P0A1J9
B2	?	-	ALA	deletion	UNP P0A1J9
B2	?	-	ALA	deletion	UNP P0A1J9
B3	?	-	PRO	deletion	UNP P0A1J9
B3	?	-	ALA	deletion	UNP P0A1J9
B3	?	-	ALA	deletion	UNP P0A1J9
B4	?	-	PRO	deletion	UNP P0A1J9
B4	?	-	ALA	deletion	UNP P0A1J9
B4	?	-	ALA	deletion	UNP P0A1J9
B5	?	-	PRO	deletion	UNP P0A1J9
B5	?	-	ALA	deletion	UNP P0A1J9
B5	?	-	ALA	deletion	UNP P0A1J9
B6	?	-	PRO	deletion	UNP P0A1J9
B6	?	-	ALA	deletion	UNP P0A1J9

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Chain	Residue	Modelled	Actual	Comment	Reference
B6	?	-	ALA	deletion	UNP P0A1J9
B7	?	-	PRO	deletion	UNP P0A1J9
B7	?	-	ALA	deletion	UNP P0A1J9
B7	?	-	ALA	deletion	UNP P0A1J9
B8	?	-	PRO	deletion	UNP P0A1J9
B8	?	-	ALA	deletion	UNP P0A1J9
B8	?	-	ALA	deletion	UNP P0A1J9
B9	?	-	PRO	deletion	UNP P0A1J9
B9	?	-	ALA	deletion	UNP P0A1J9
B9	?	-	ALA	deletion	UNP P0A1J9
BA	?	-	PRO	deletion	UNP P0A1J9
BA	?	-	ALA	deletion	UNP P0A1J9
BA	?	-	ALA	deletion	UNP P0A1J9
BB	?	-	PRO	deletion	UNP P0A1J9
BB	?	-	ALA	deletion	UNP P0A1J9
BB	?	-	ALA	deletion	UNP P0A1J9
BC	?	-	PRO	deletion	UNP P0A1J9
BC	?	-	ALA	deletion	UNP P0A1J9
BC	?	-	ALA	deletion	UNP P0A1J9
BD	?	-	PRO	deletion	UNP P0A1J9
BD	?	-	ALA	deletion	UNP P0A1J9
BD	?	-	ALA	deletion	UNP P0A1J9
BE	?	-	PRO	deletion	UNP P0A1J9
BE	?	-	ALA	deletion	UNP P0A1J9
BE	?	-	ALA	deletion	UNP P0A1J9
BF	?	-	PRO	deletion	UNP P0A1J9
BF	?	-	ALA	deletion	UNP P0A1J9
BF	?	-	ALA	deletion	UNP P0A1J9
BG	?	-	PRO	deletion	UNP P0A1J9
BG	?	-	ALA	deletion	UNP P0A1J9
BG	?	-	ALA	deletion	UNP P0A1J9
BH	?	-	PRO	deletion	UNP P0A1J9
BH	?	-	ALA	deletion	UNP P0A1J9
BH	?	-	ALA	deletion	UNP P0A1J9
BI	?	-	PRO	deletion	UNP P0A1J9
BI	?	-	ALA	deletion	UNP P0A1J9
BI	?	-	ALA	deletion	UNP P0A1J9
BJ	?	-	PRO	deletion	UNP P0A1J9
BJ	?	-	ALA	deletion	UNP P0A1J9
BJ	?	-	ALA	deletion	UNP P0A1J9
BK	?	-	PRO	deletion	UNP P0A1J9
BK	?	-	ALA	deletion	UNP P0A1J9

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Chain	Residue	Modelled	Actual	Comment	Reference
BK	?	-	ALA	deletion	UNP P0A1J9
BL	?	-	PRO	deletion	UNP P0A1J9
BL	?	-	ALA	deletion	UNP P0A1J9
BL	?	-	ALA	deletion	UNP P0A1J9
BM	?	-	PRO	deletion	UNP P0A1J9
BM	?	-	ALA	deletion	UNP P0A1J9
BM	?	-	ALA	deletion	UNP P0A1J9
BN	?	-	PRO	deletion	UNP P0A1J9
BN	?	-	ALA	deletion	UNP P0A1J9
BN	?	-	ALA	deletion	UNP P0A1J9
BO	?	-	PRO	deletion	UNP P0A1J9
BO	?	-	ALA	deletion	UNP P0A1J9
BO	?	-	ALA	deletion	UNP P0A1J9
BP	?	-	PRO	deletion	UNP P0A1J9
BP	?	-	ALA	deletion	UNP P0A1J9
BP	?	-	ALA	deletion	UNP P0A1J9
BQ	?	-	PRO	deletion	UNP P0A1J9
BQ	?	-	ALA	deletion	UNP P0A1J9
BQ	?	-	ALA	deletion	UNP P0A1J9
BR	?	-	PRO	deletion	UNP P0A1J9
BR	?	-	ALA	deletion	UNP P0A1J9
BR	?	-	ALA	deletion	UNP P0A1J9
BS	?	-	PRO	deletion	UNP P0A1J9
BS	?	-	ALA	deletion	UNP P0A1J9
BS	?	-	ALA	deletion	UNP P0A1J9
BT	?	-	PRO	deletion	UNP P0A1J9
BT	?	-	ALA	deletion	UNP P0A1J9
BT	?	-	ALA	deletion	UNP P0A1J9
BU	?	-	PRO	deletion	UNP P0A1J9
BU	?	-	ALA	deletion	UNP P0A1J9
BU	?	-	ALA	deletion	UNP P0A1J9
BV	?	-	PRO	deletion	UNP P0A1J9
BV	?	-	ALA	deletion	UNP P0A1J9
BV	?	-	ALA	deletion	UNP P0A1J9
BW	?	-	PRO	deletion	UNP P0A1J9
BW	?	-	ALA	deletion	UNP P0A1J9
BW	?	-	ALA	deletion	UNP P0A1J9
BX	?	-	PRO	deletion	UNP P0A1J9
BX	?	-	ALA	deletion	UNP P0A1J9
BX	?	-	ALA	deletion	UNP P0A1J9
BY	?	-	PRO	deletion	UNP P0A1J9
BY	?	-	ALA	deletion	UNP P0A1J9

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Chain	Residue	Modelled	Actual	Comment	Reference
BY	?	-	ALA	deletion	UNP P0A1J9

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C1	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C2	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C3	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C4	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C5	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C6	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C7	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C8	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	C9	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CA	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CB	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CC	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CD	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CE	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CF	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CG	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CH	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CI	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CJ	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	CK	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CL	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CM	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CN	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CO	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CP	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CQ	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CR	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CS	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CT	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CU	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CV	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CW	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CX	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		
3	CY	287	Total	C	N	O	S	0	0
			2325	1482	421	417	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E1	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F1	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D2	83	Total	C	N	O	S	0	0
			643	407	113	120	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	E2	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F2	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D3	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E3	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F3	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D4	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E4	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F4	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D5	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E5	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F5	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D6	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E6	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F6	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D7	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E7	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F7	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D8	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	E8	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F8	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	D9	83	Total	C	N	O	S	0	0
			643	407	113	120	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	E9	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	F9	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DA	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EA	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FA	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DB	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EB	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FB	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DC	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EC	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FC	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DD	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	ED	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FD	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DE	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EE	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FE	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DF	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EF	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FF	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DG	83	Total	C	N	O	S	0	0
			643	407	113	120	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	EG	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FG	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DH	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EH	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FH	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DI	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EI	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FI	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DJ	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EJ	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FJ	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DK	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EK	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FK	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DL	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EL	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FL	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DM	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EM	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FM	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DN	83	Total	C	N	O	S	0	0
			643	407	113	120	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	EN	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FN	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DO	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EO	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FO	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DP	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EP	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FP	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DQ	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EQ	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FQ	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DR	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	ER	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FR	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DS	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	ES	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FS	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DT	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	ET	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FT	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DU	83	Total	C	N	O	S	0	0
			643	407	113	120	3		

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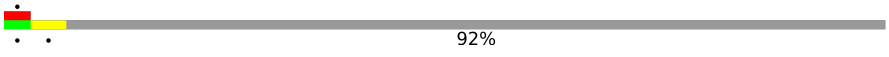
Mol	Chain	Residues	Atoms					AltConf	Trace
4	EU	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FU	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DV	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EV	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FV	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DW	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EW	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FW	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DX	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EX	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FX	85	Total	C	N	O	S	0	0
			656	416	113	124	3		
4	DY	83	Total	C	N	O	S	0	0
			643	407	113	120	3		
4	EY	79	Total	C	N	O	S	0	0
			609	388	106	112	3		
4	FY	85	Total	C	N	O	S	0	0
			656	416	113	124	3		

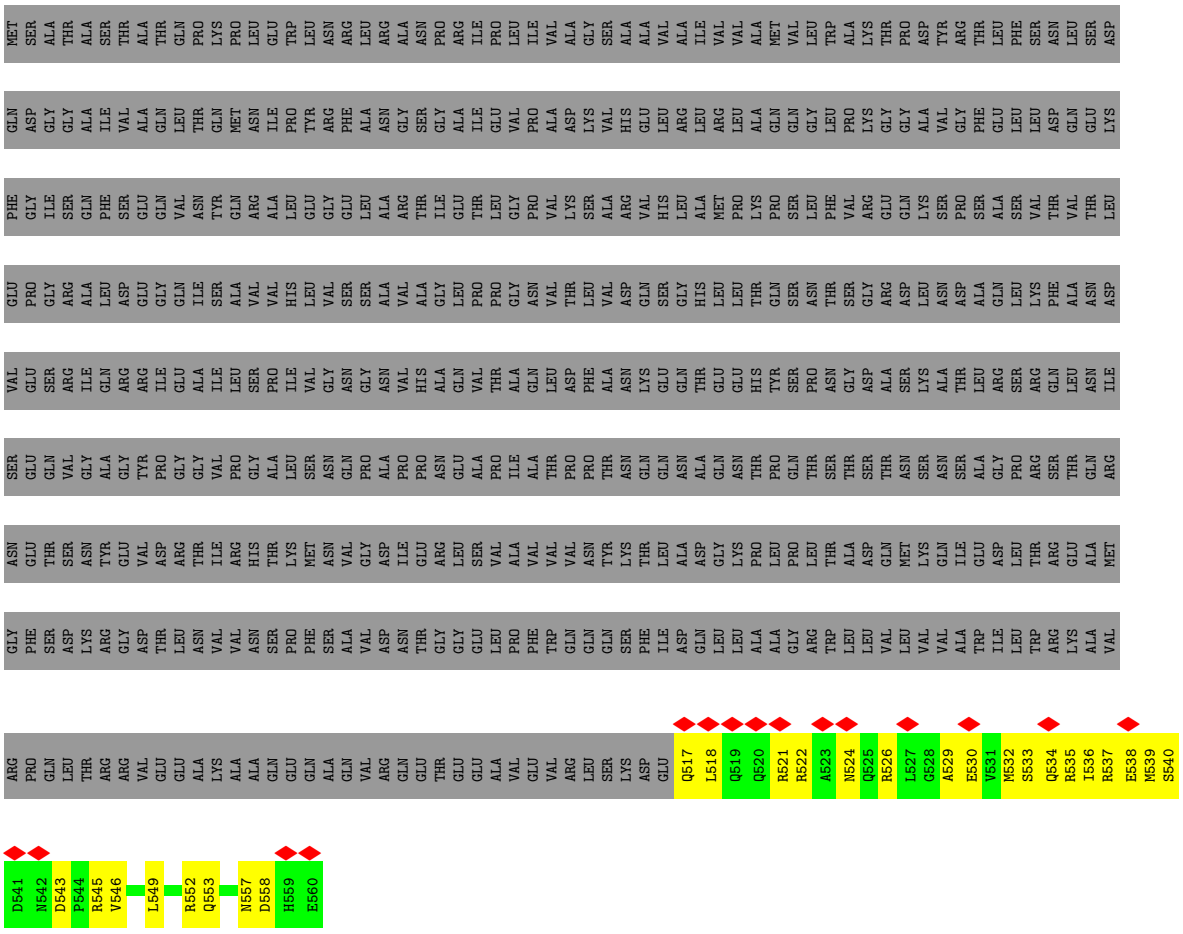
3 Residue-property plots (i)

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

• Molecule 1: Flagellar M-ring protein

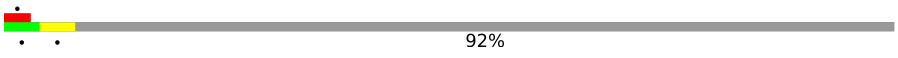
Chain A1:

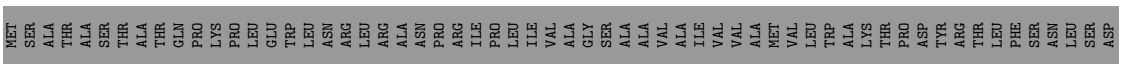


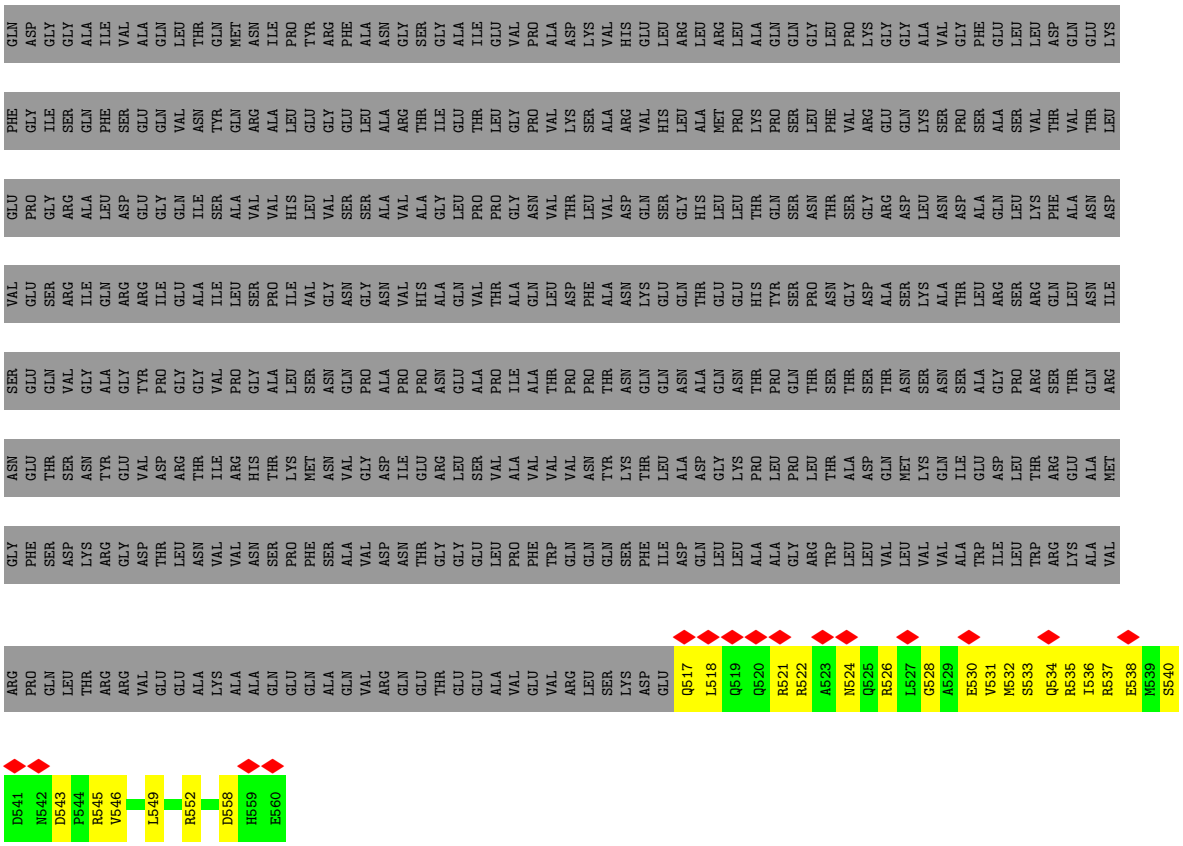


• Molecule 1: Flagellar M-ring protein

Chain A2:

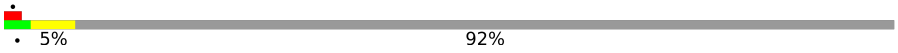


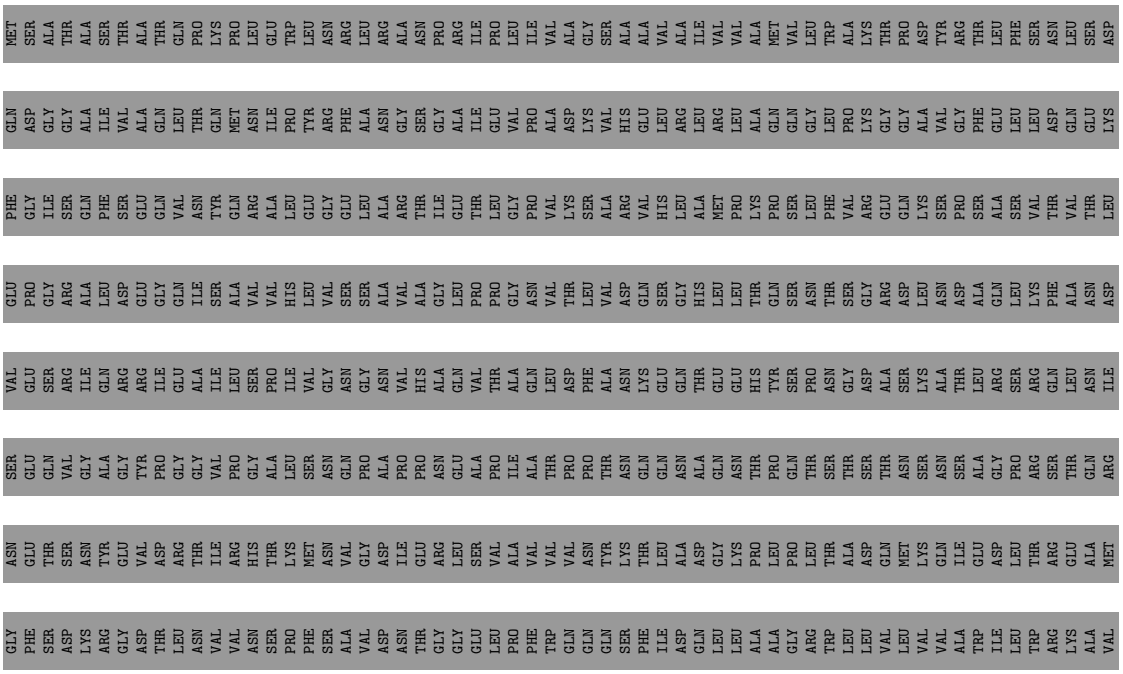


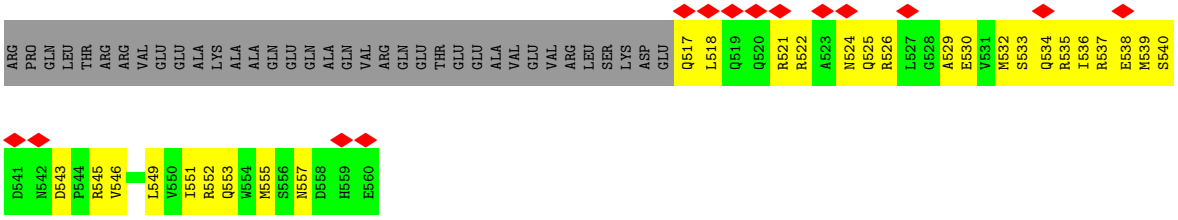


• Molecule 1: Flagellar M-ring protein

Chain A3:

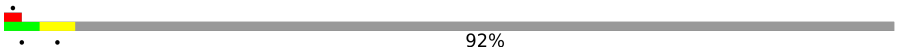


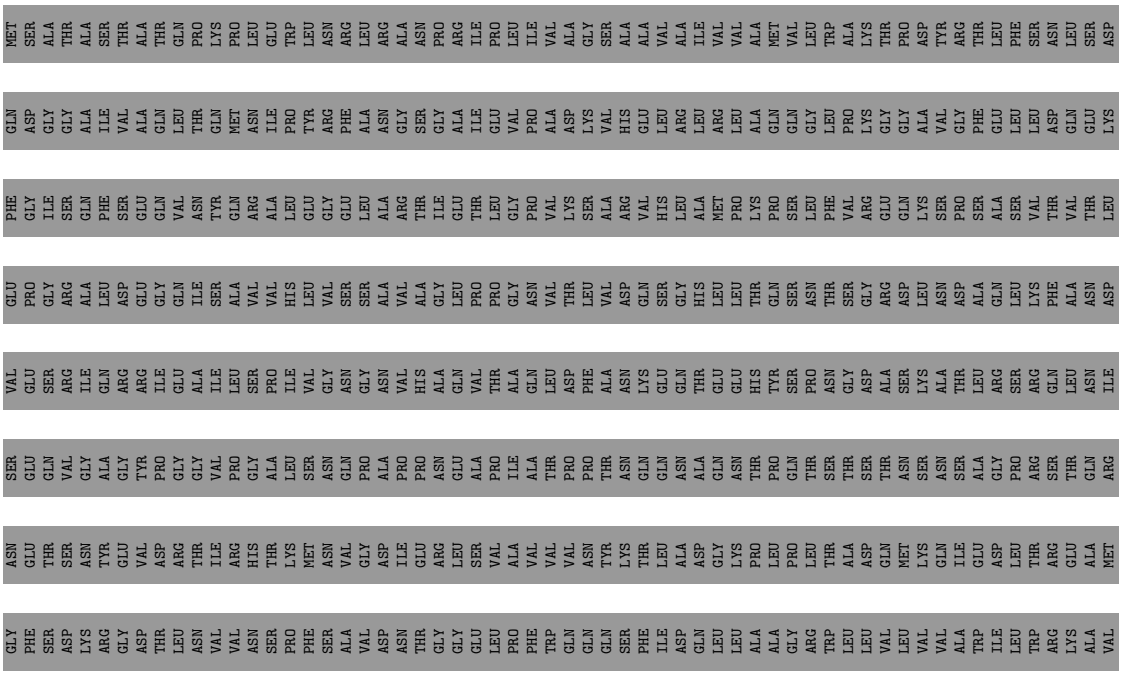


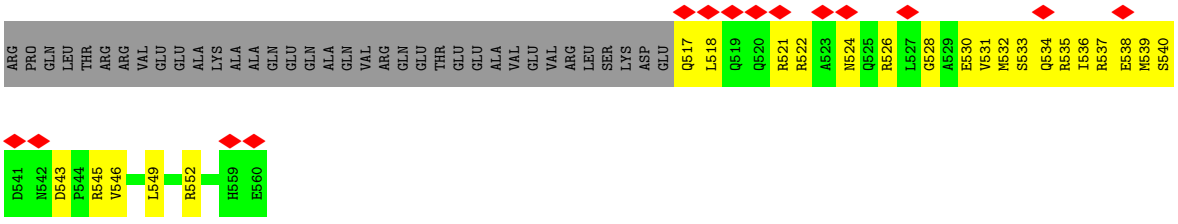


• Molecule 1: Flagellar M-ring protein

Chain A4:

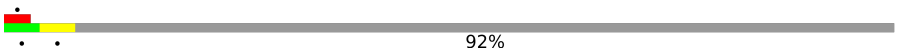


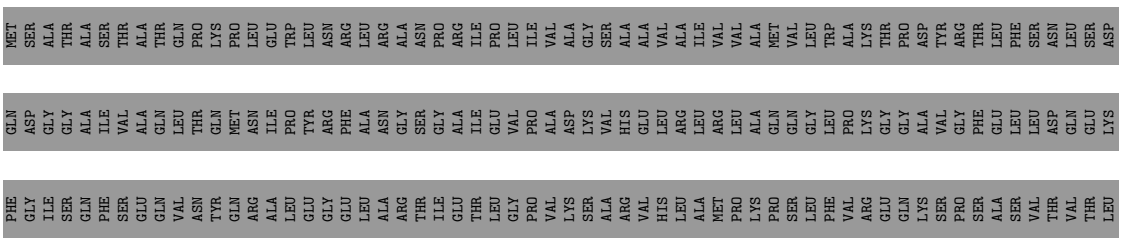


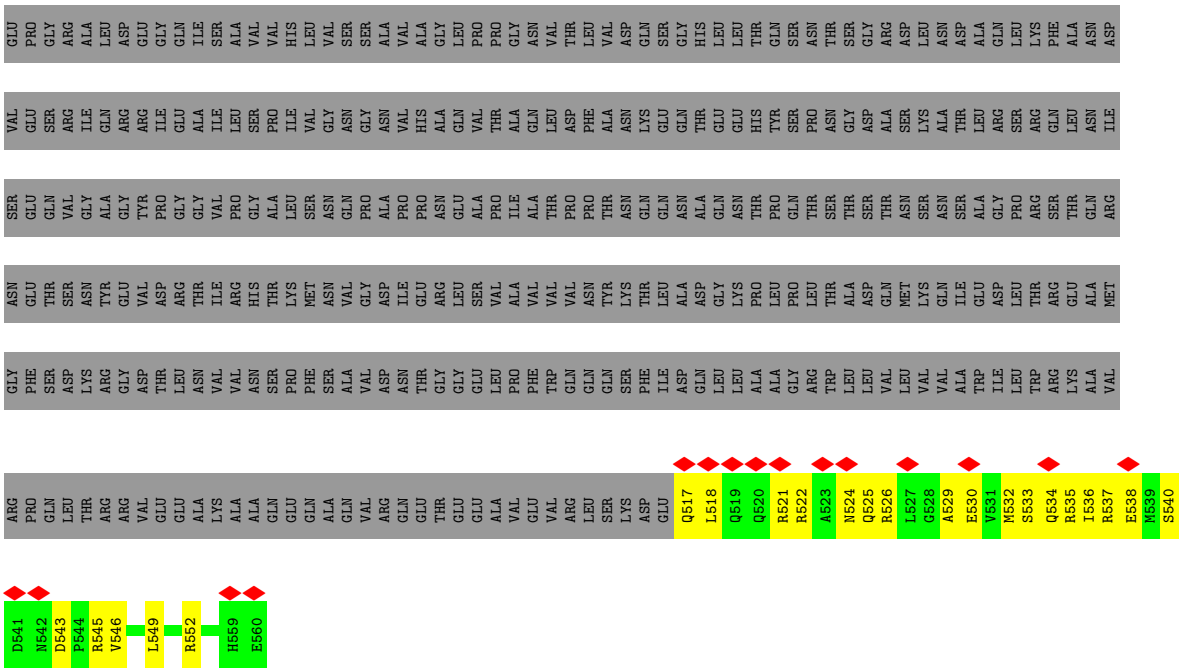


• Molecule 1: Flagellar M-ring protein

Chain A5:

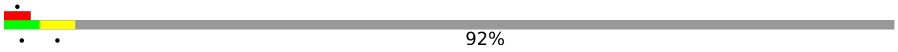


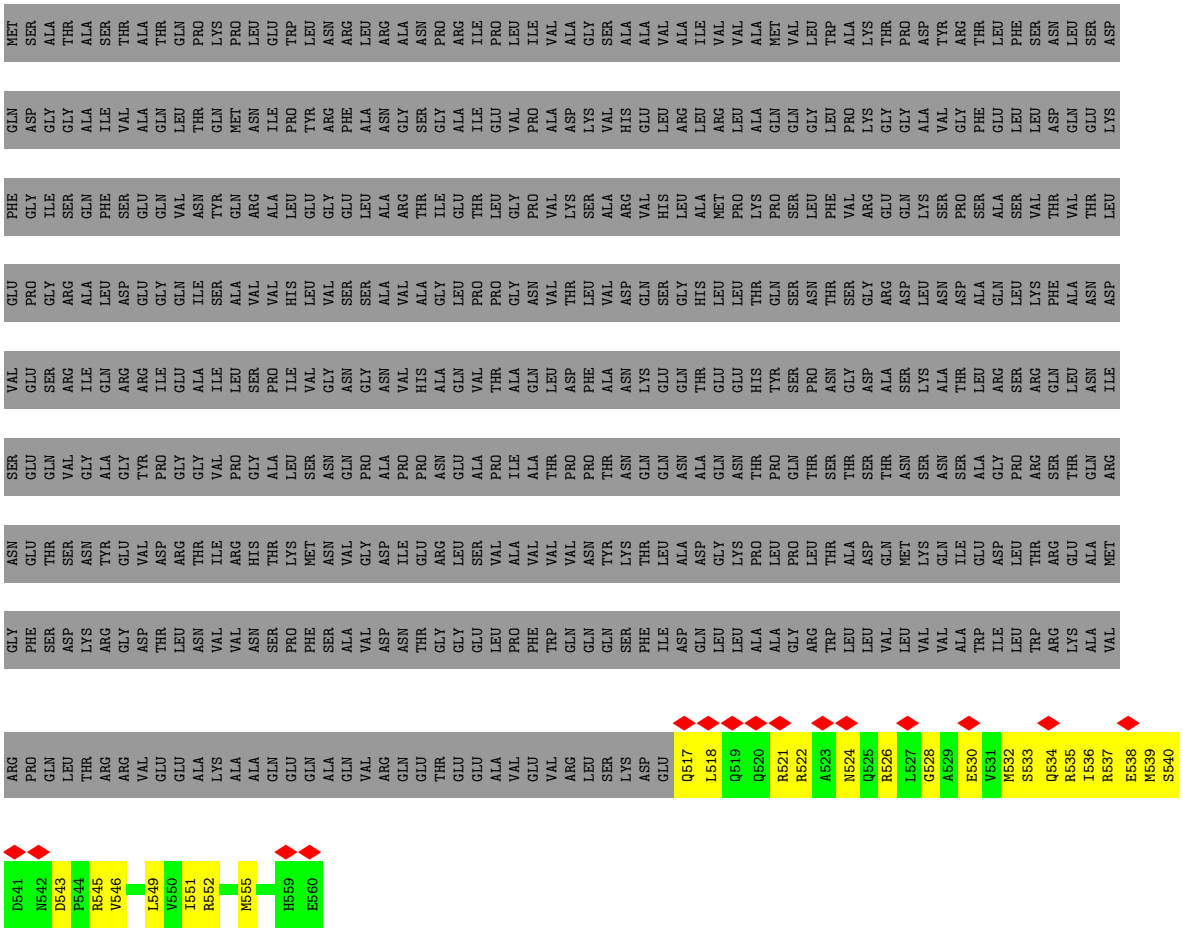




• Molecule 1: Flagellar M-ring protein

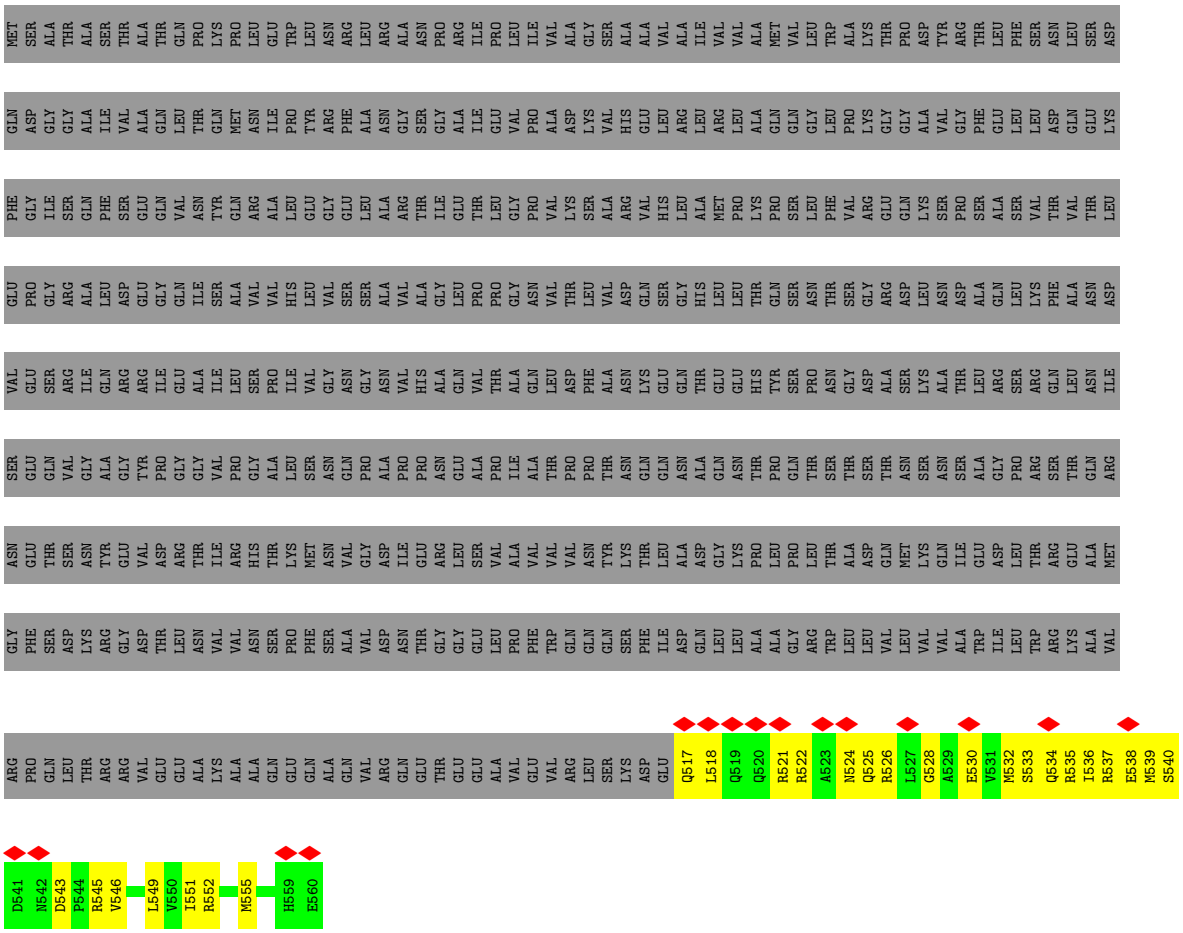
Chain A6:





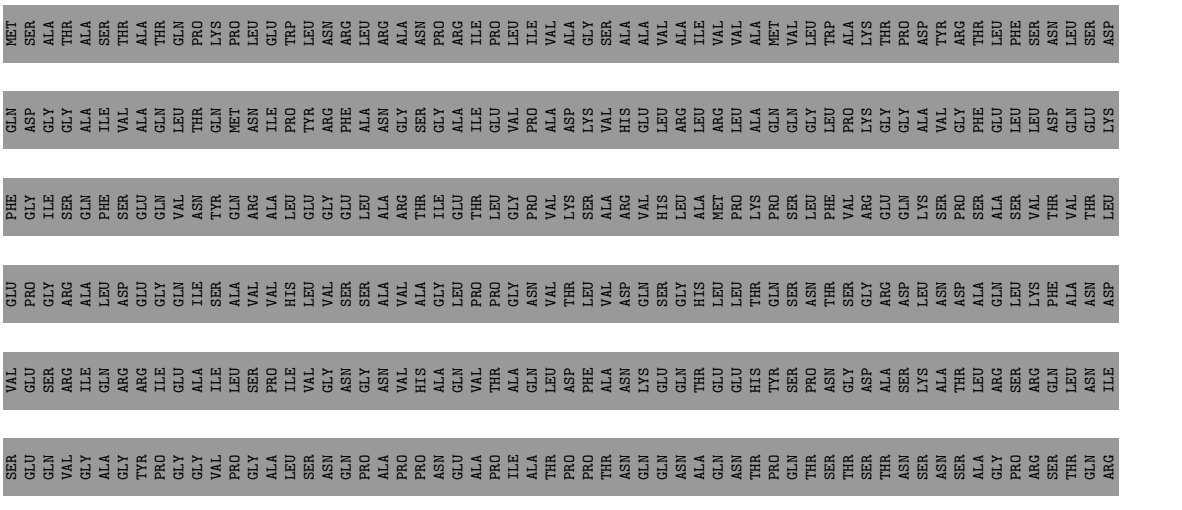
• Molecule 1: Flagellar M-ring protein

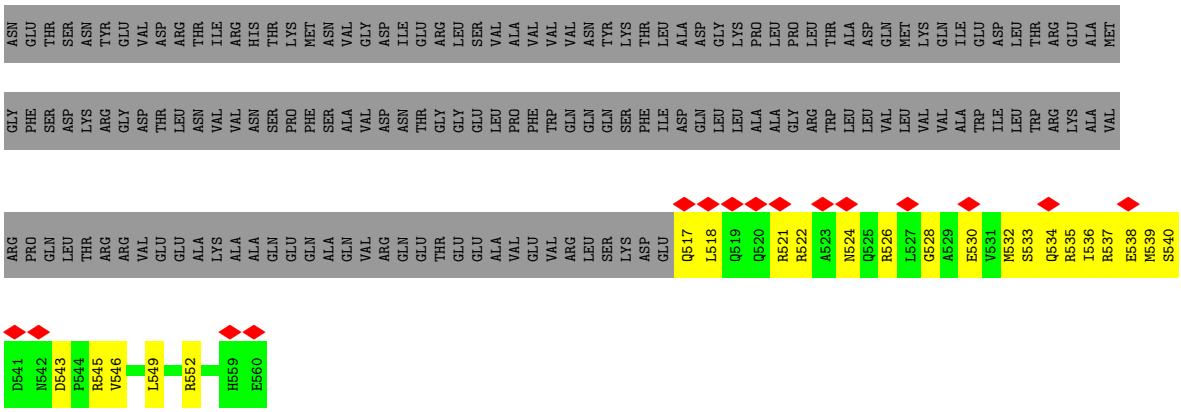
Chain A7:



• Molecule 1: Flagellar M-ring protein

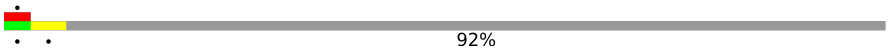
Chain A8:

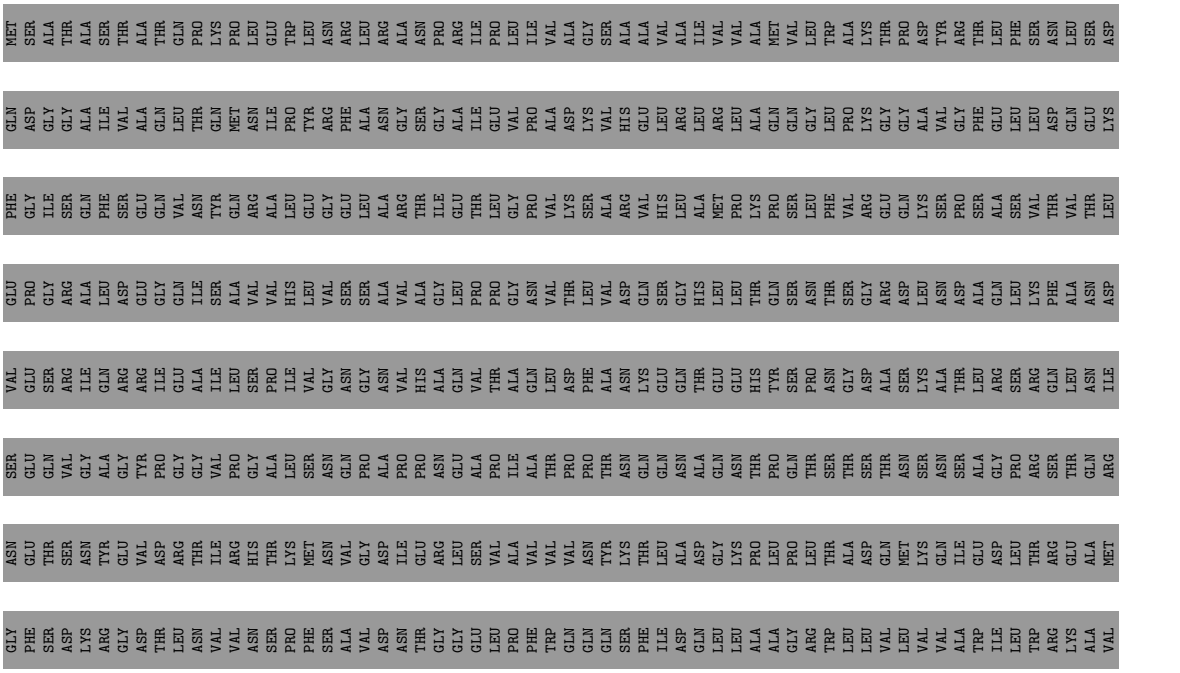




• Molecule 1: Flagellar M-ring protein

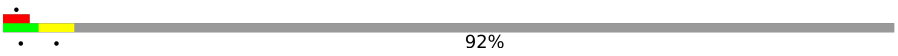
Chain A9:

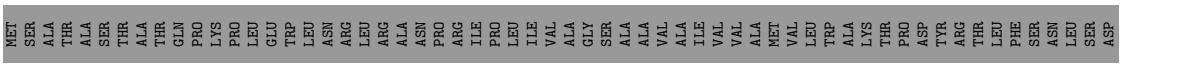


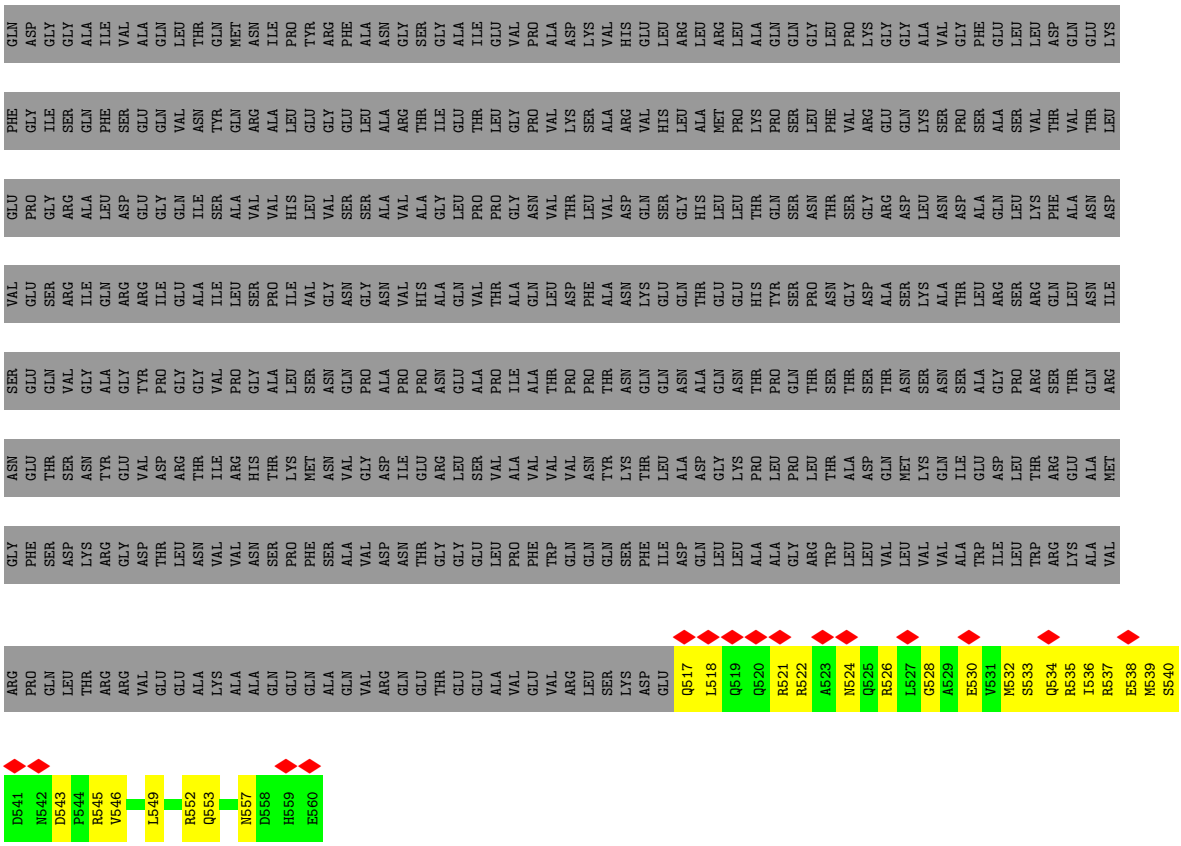


• Molecule 1: Flagellar M-ring protein

Chain AA:

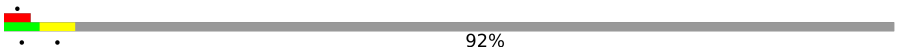


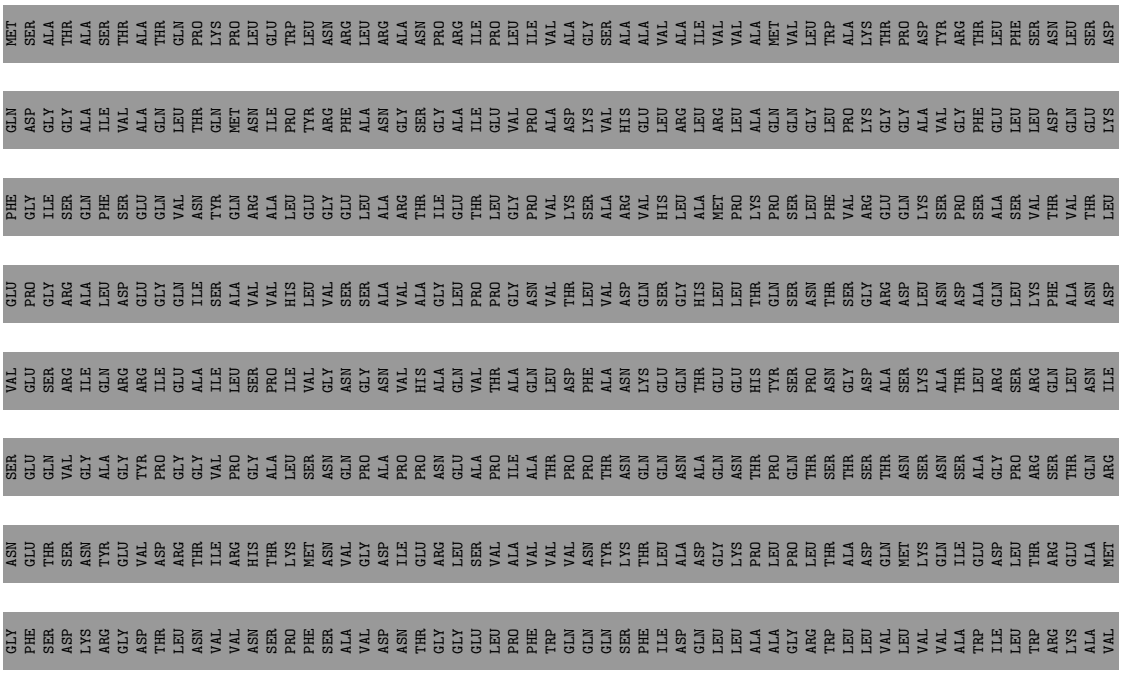


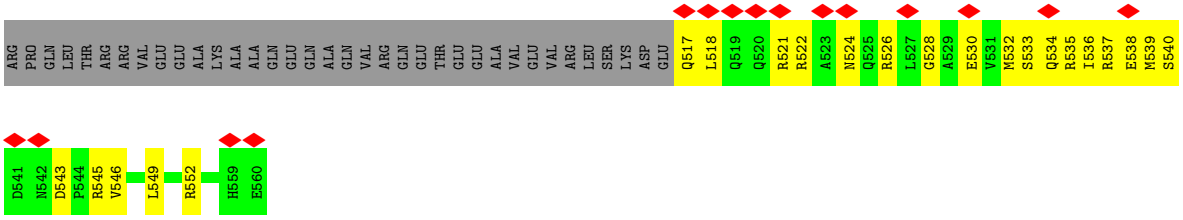


• Molecule 1: Flagellar M-ring protein

Chain AB:

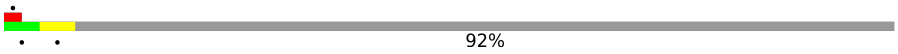


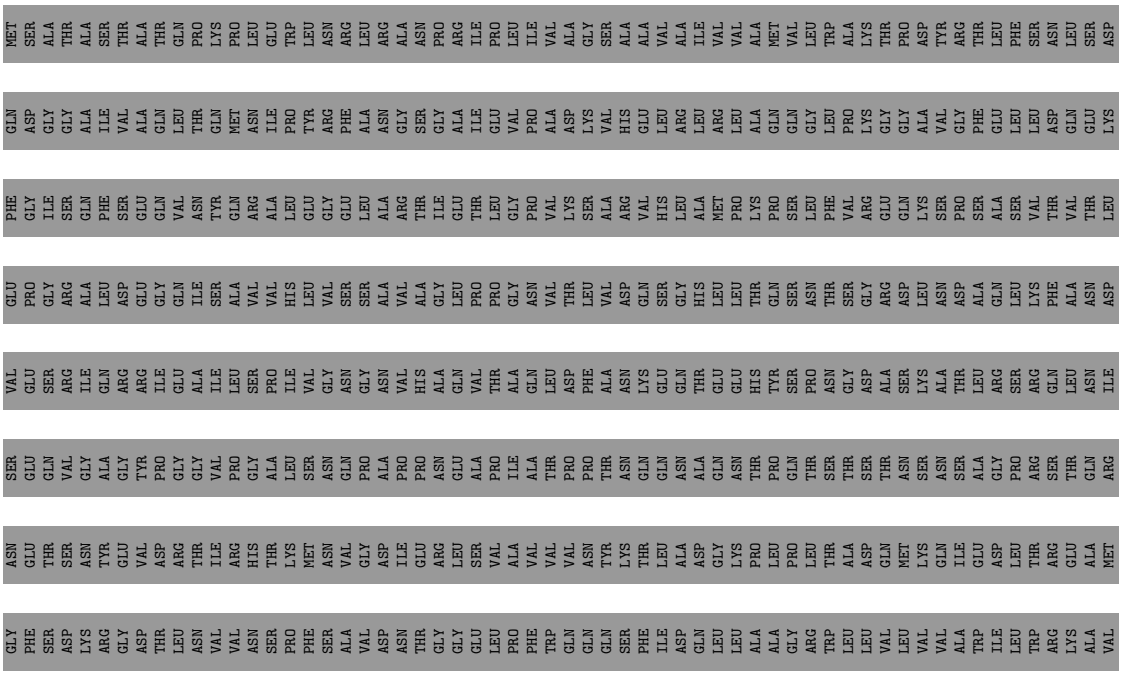


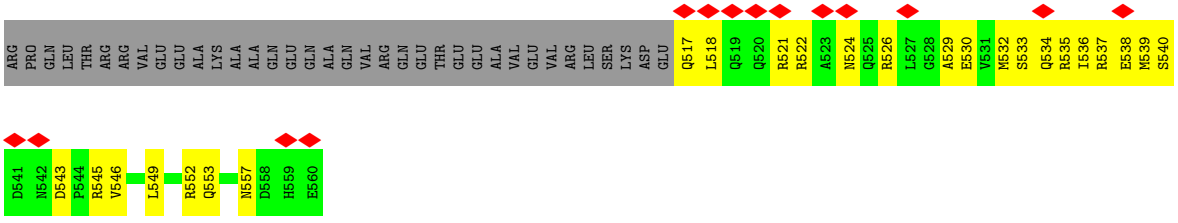


• Molecule 1: Flagellar M-ring protein

Chain AC:

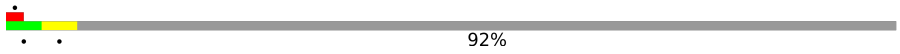


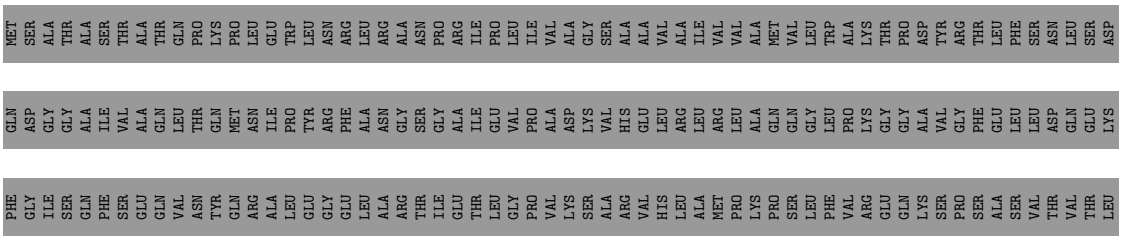


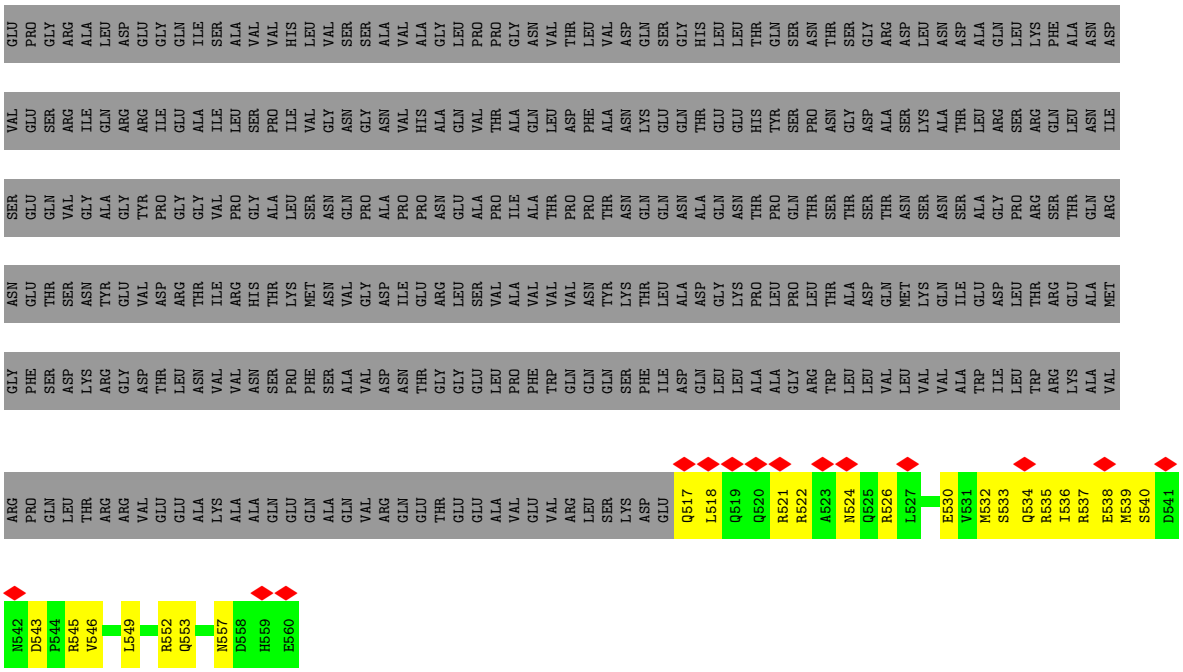


• Molecule 1: Flagellar M-ring protein

Chain AD:

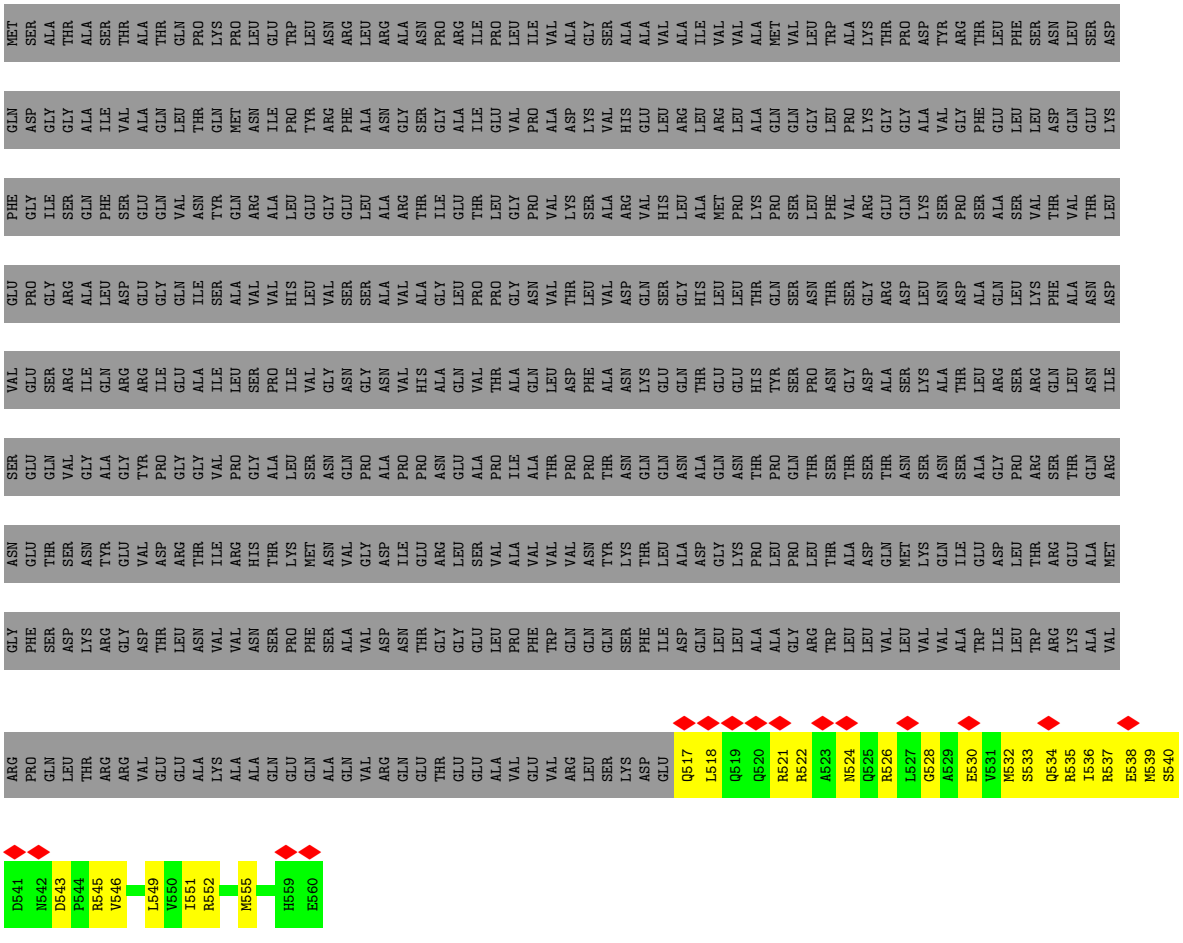






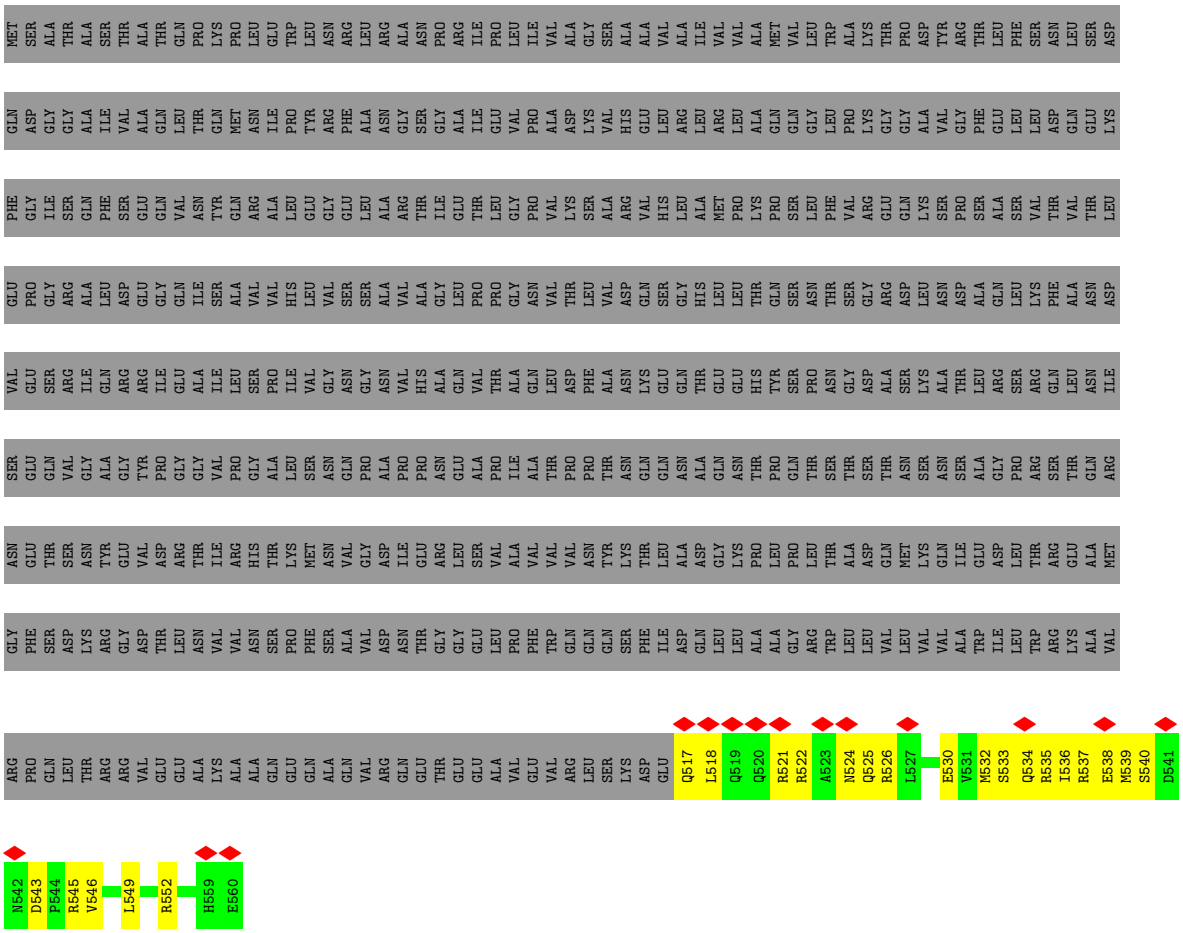
• Molecule 1: Flagellar M-ring protein

Chain AE: 92%



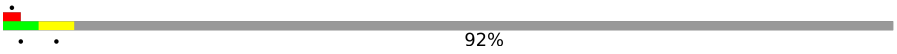
• Molecule 1: Flagellar M-ring protein

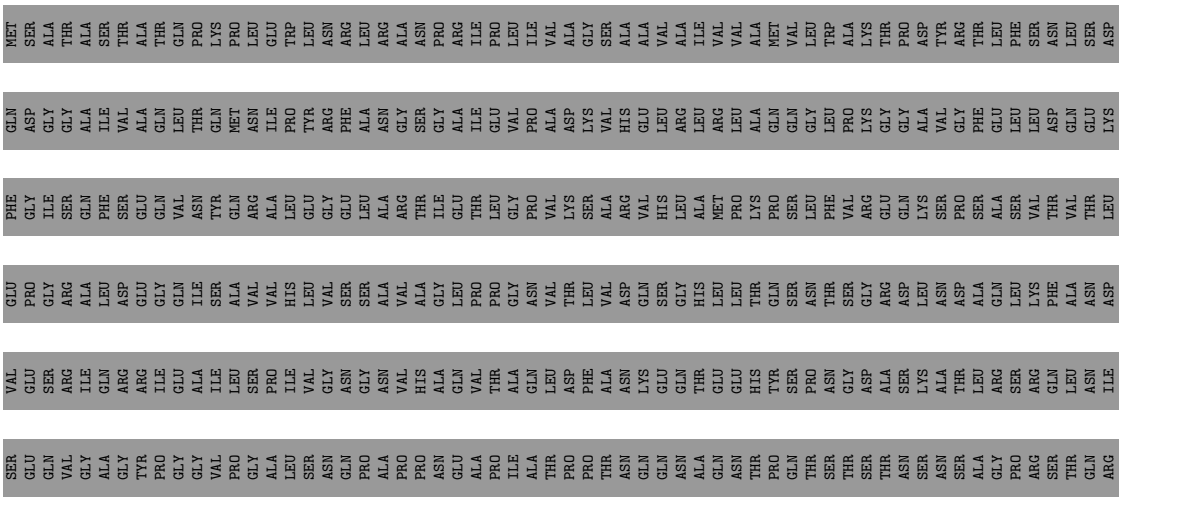
Chain AF:

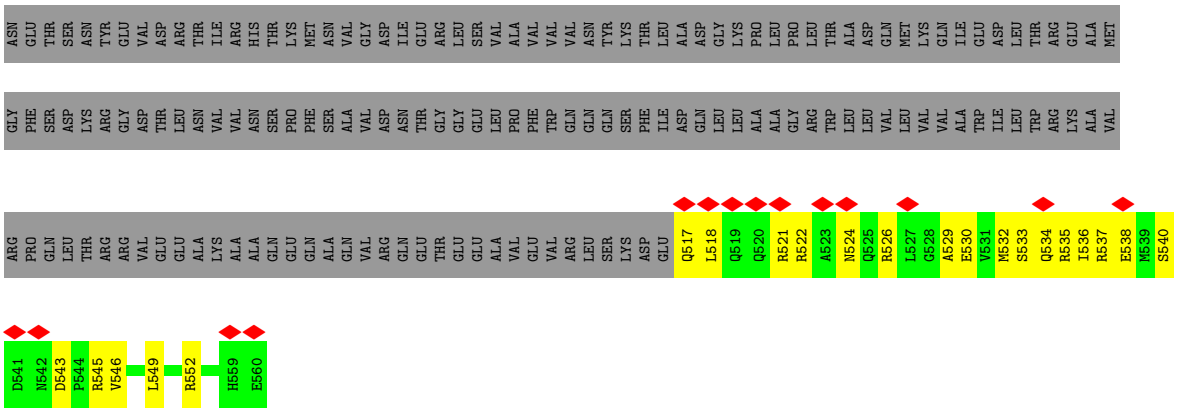


• Molecule 1: Flagellar M-ring protein

Chain AG:

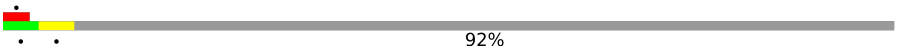


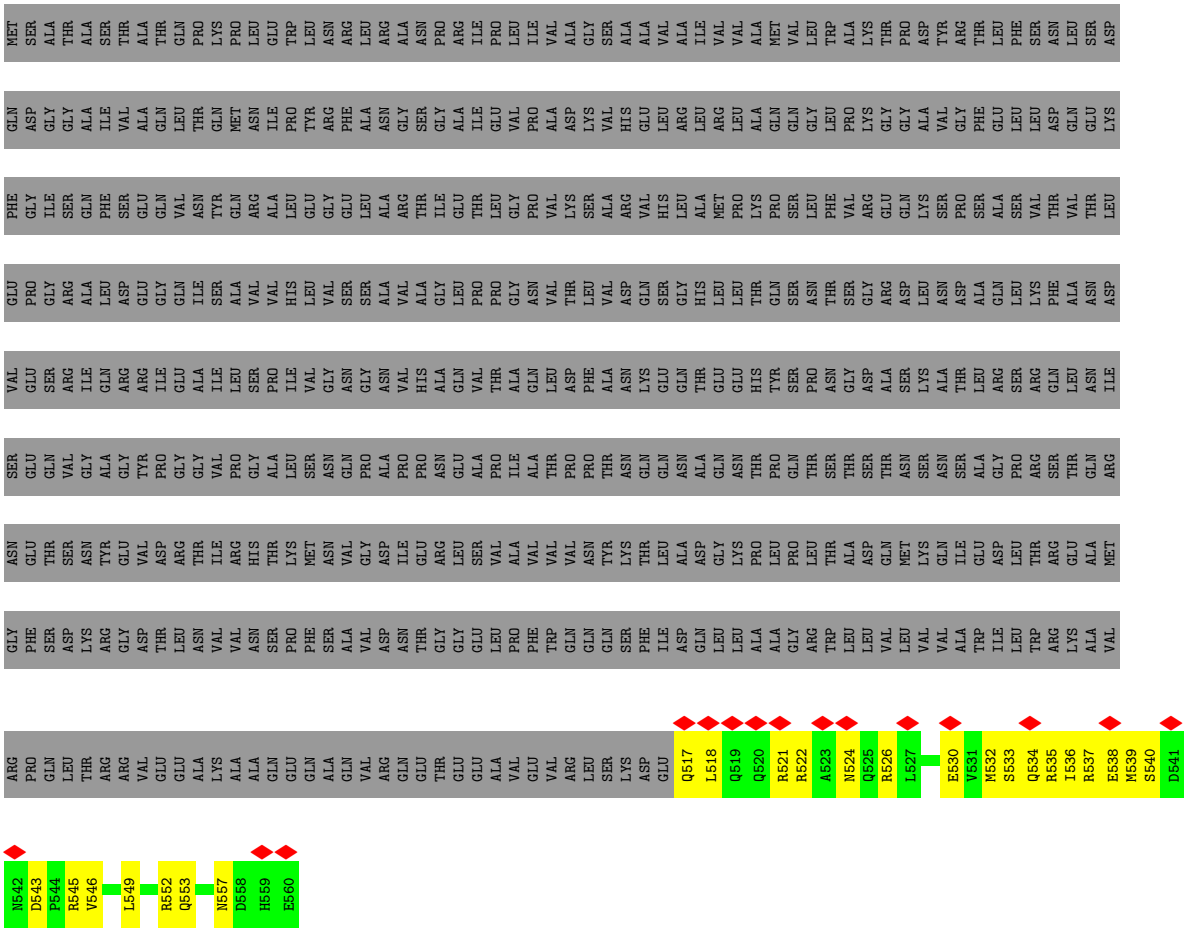




• Molecule 1: Flagellar M-ring protein

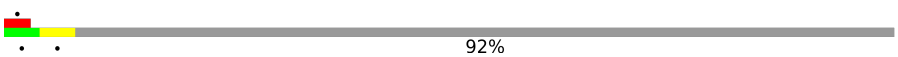
Chain AH:

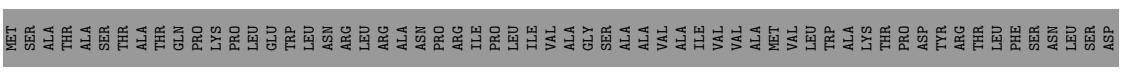


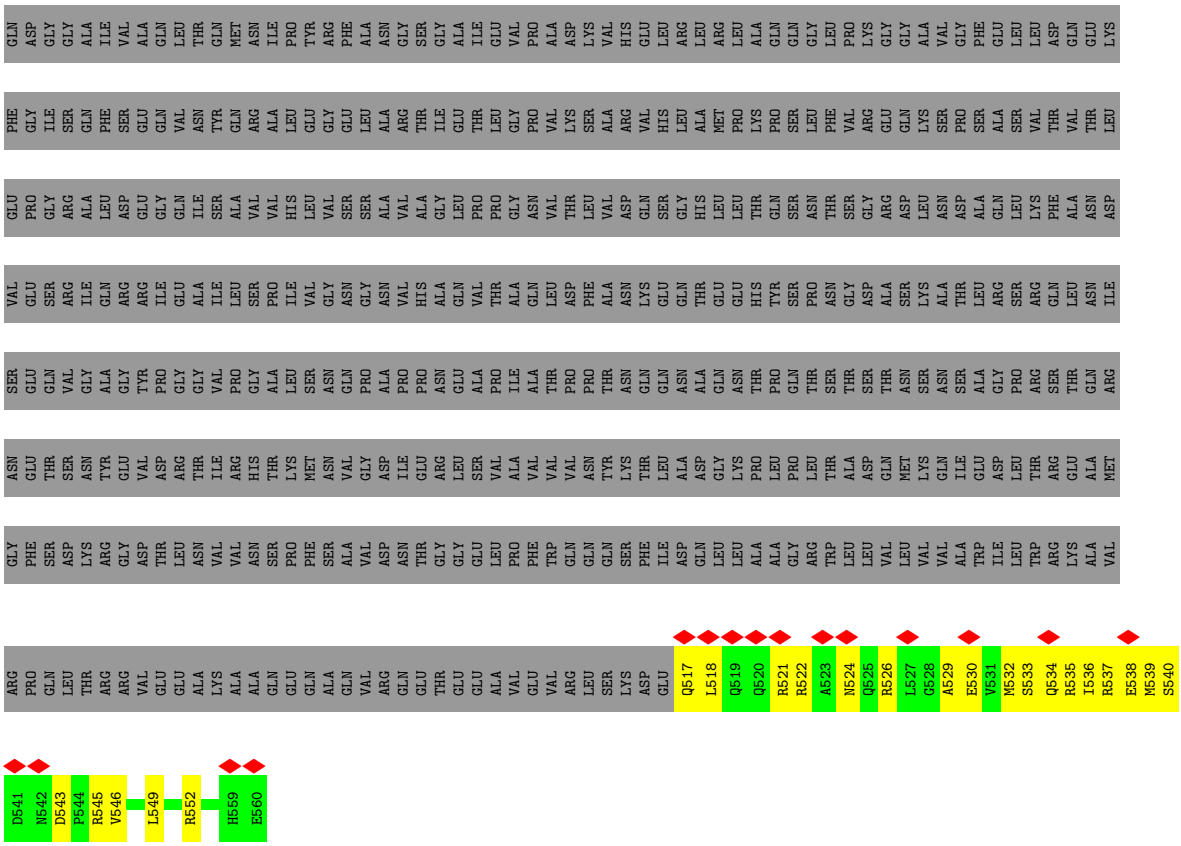


• Molecule 1: Flagellar M-ring protein

Chain AI:







• Molecule 1: Flagellar M-ring protein

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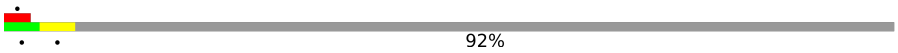
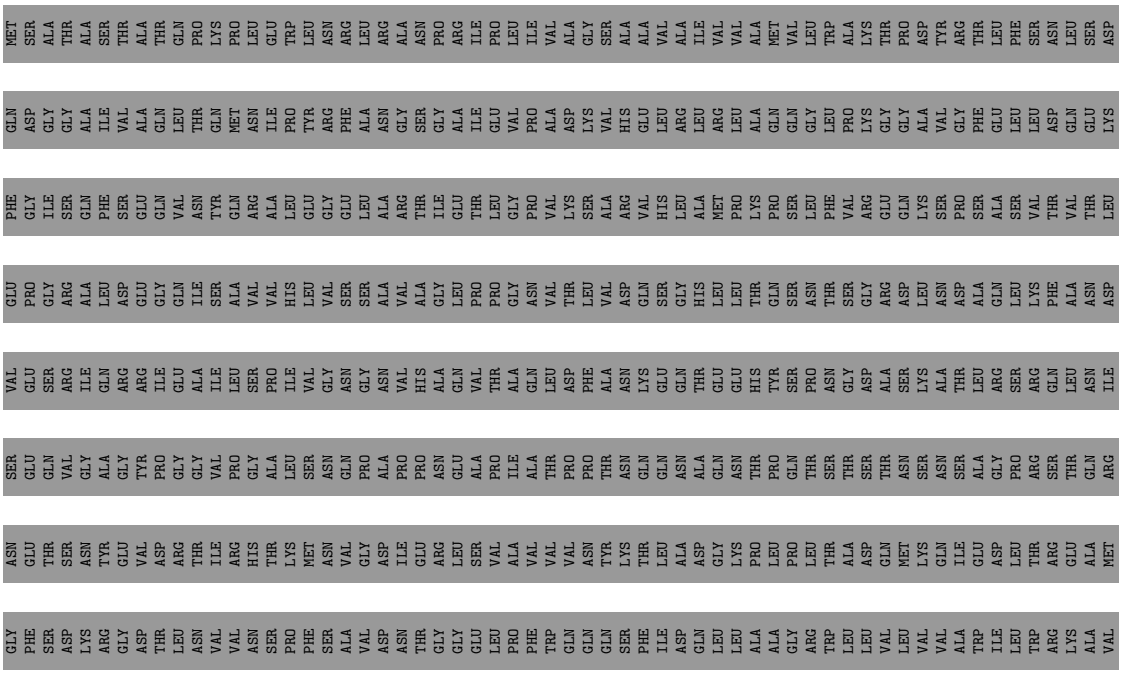
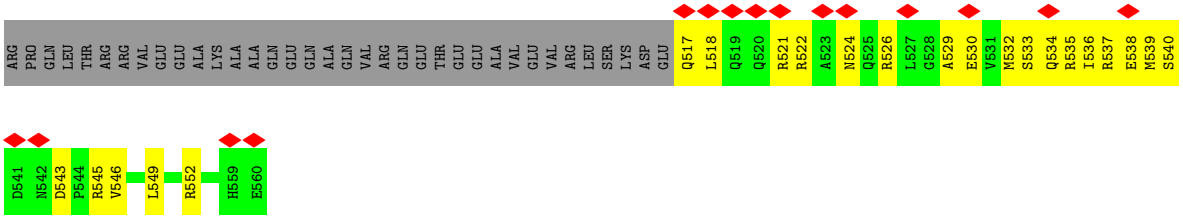
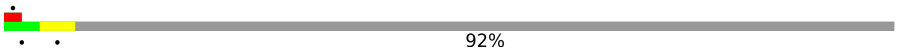


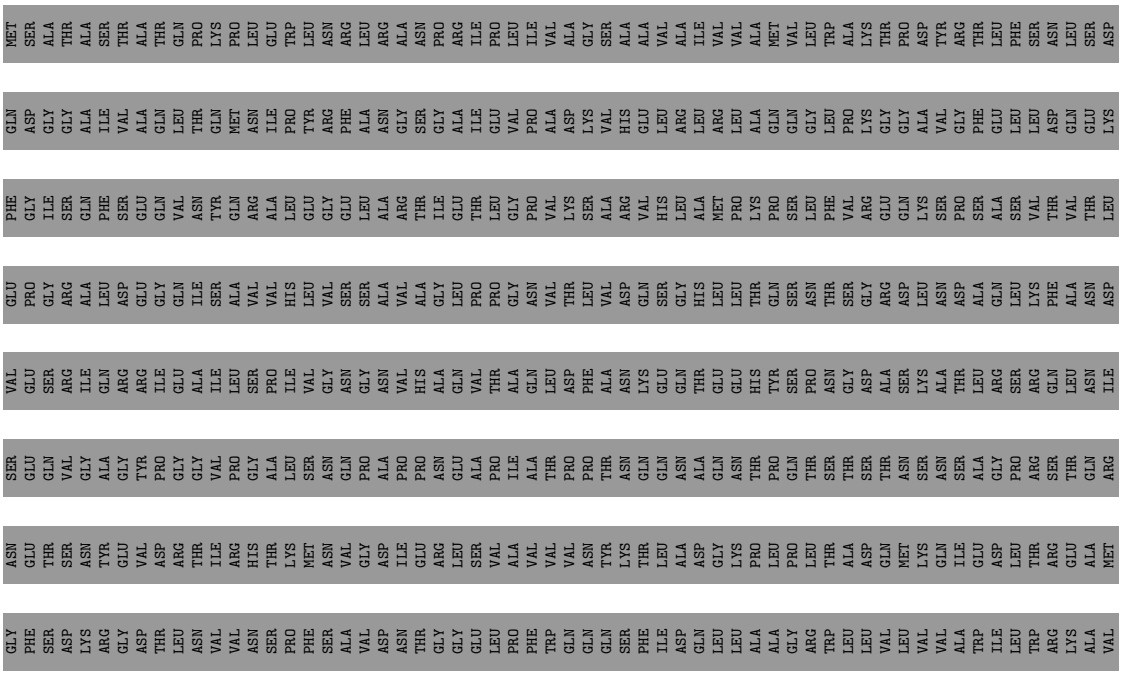


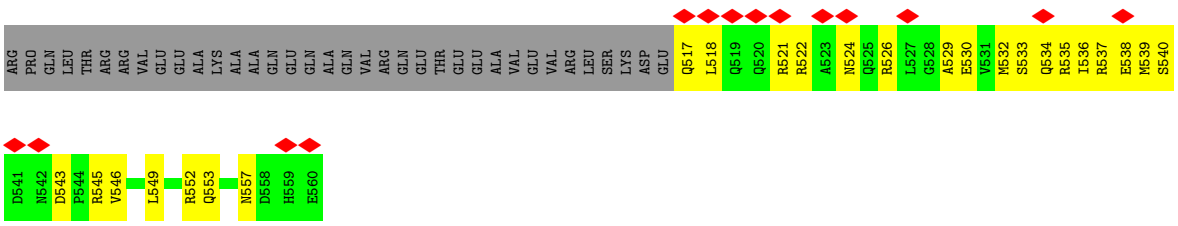


• Molecule 1: Flagellar M-ring protein

Chain AK:

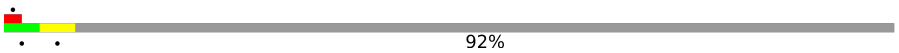


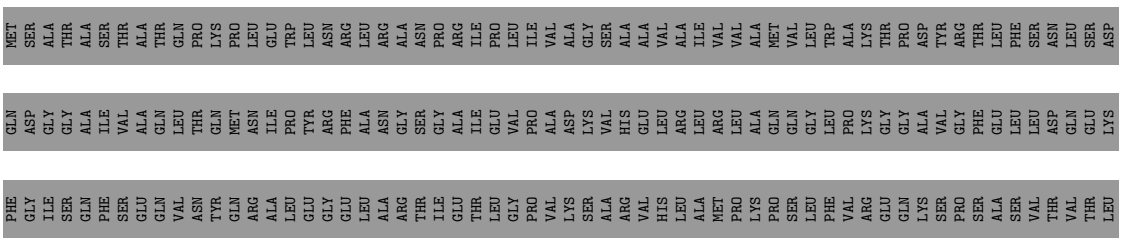


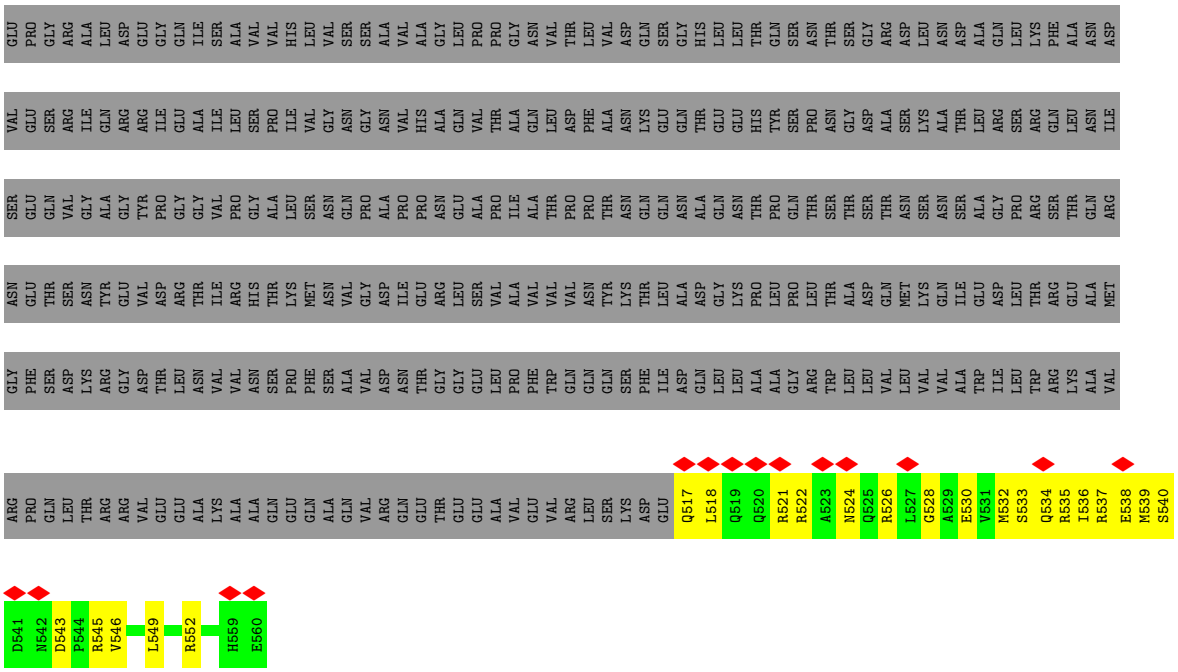


• Molecule 1: Flagellar M-ring protein

Chain AL:

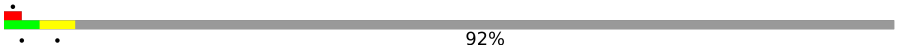


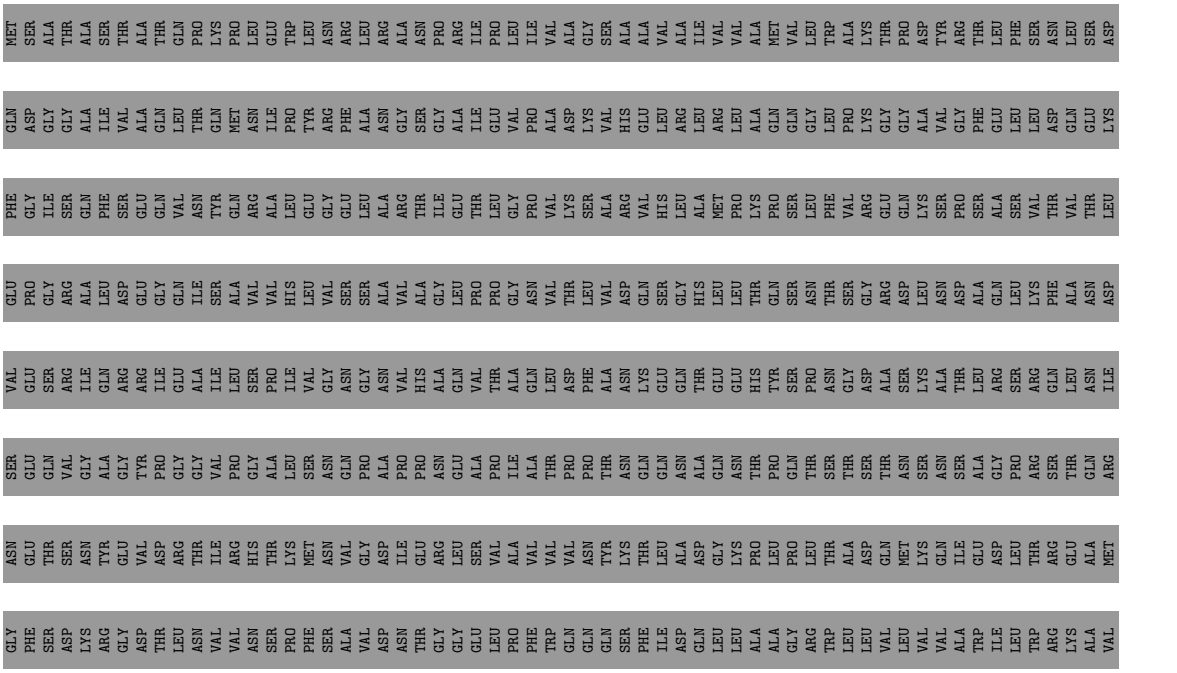




• Molecule 1: Flagellar M-ring protein

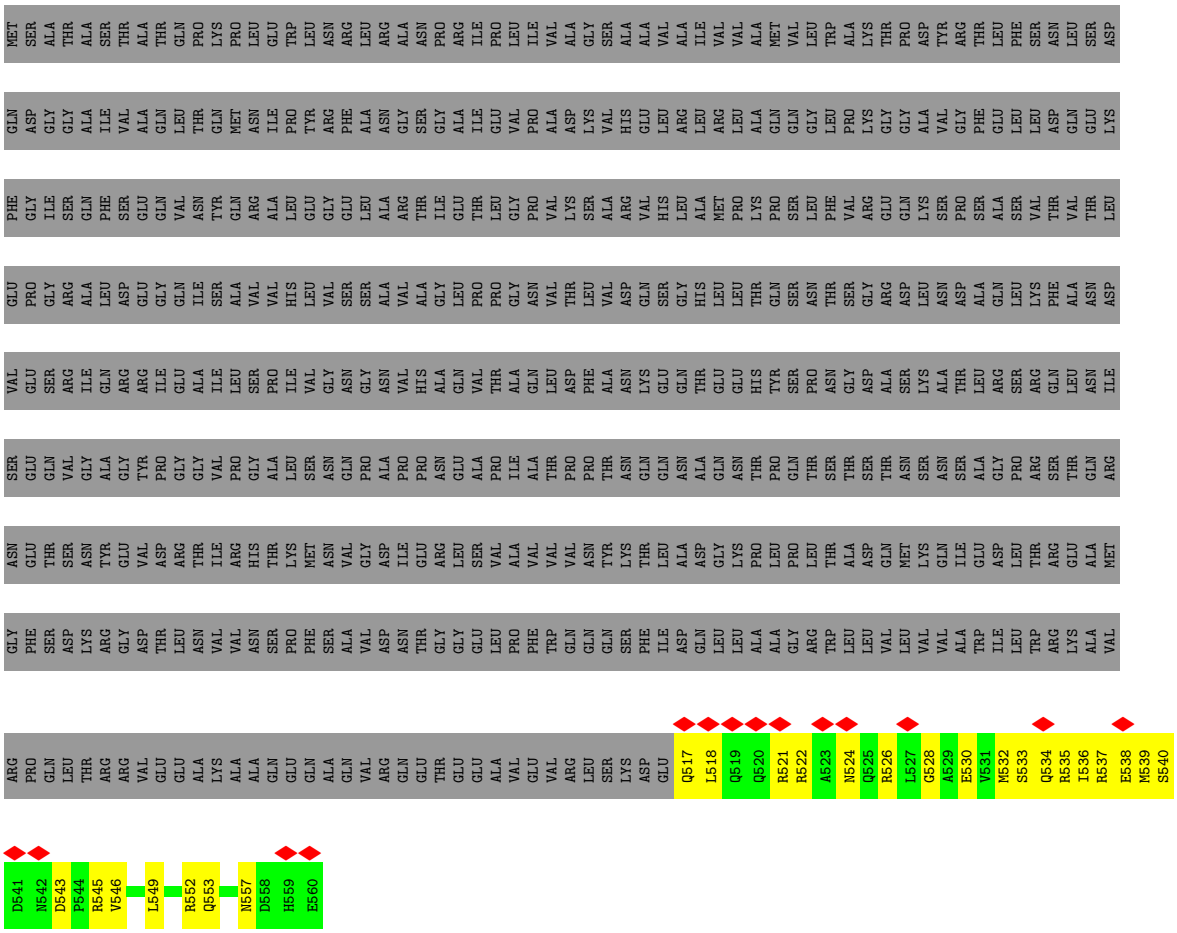
Chain AM:





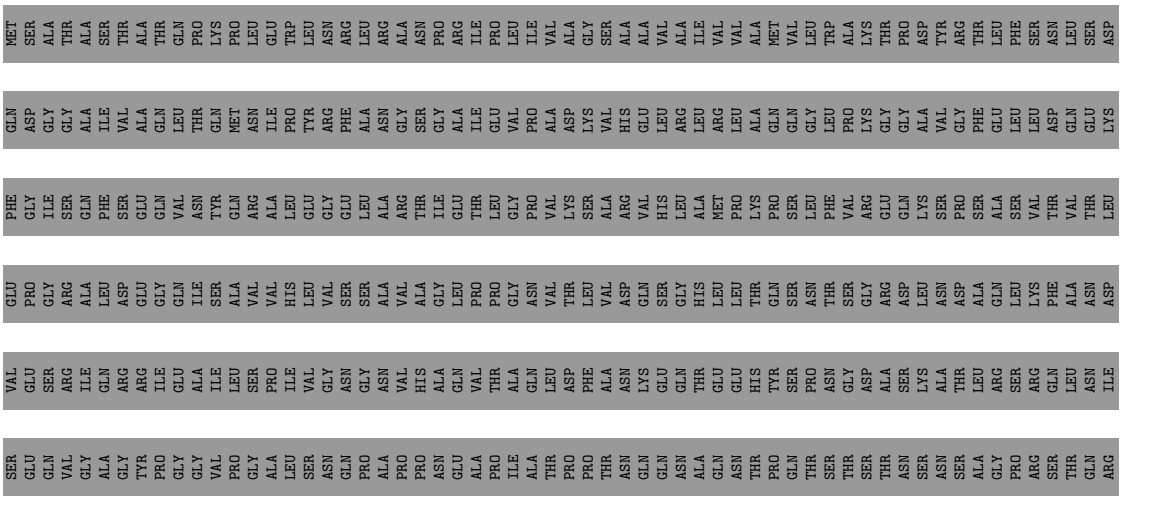
• Molecule 1: Flagellar M-ring protein

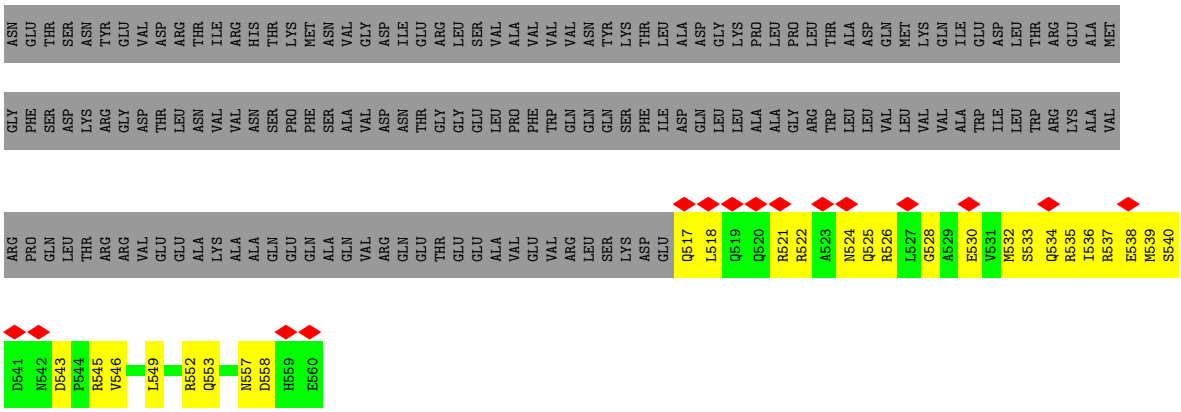
Chain AN:



• Molecule 1: Flagellar M-ring protein

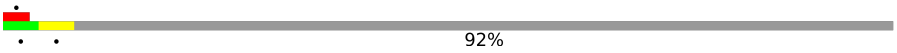
Chain AO:

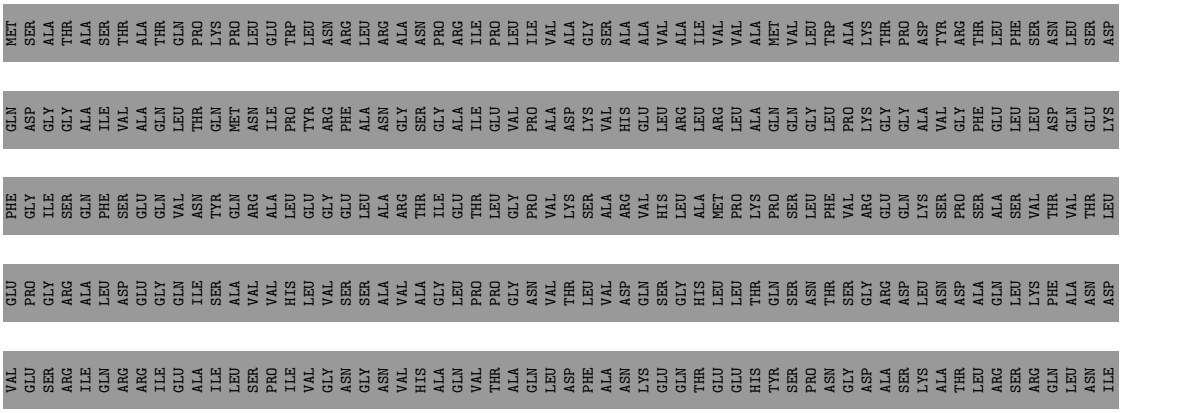




• Molecule 1: Flagellar M-ring protein

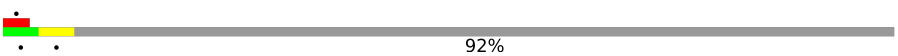
Chain AP:

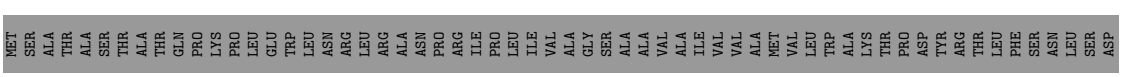


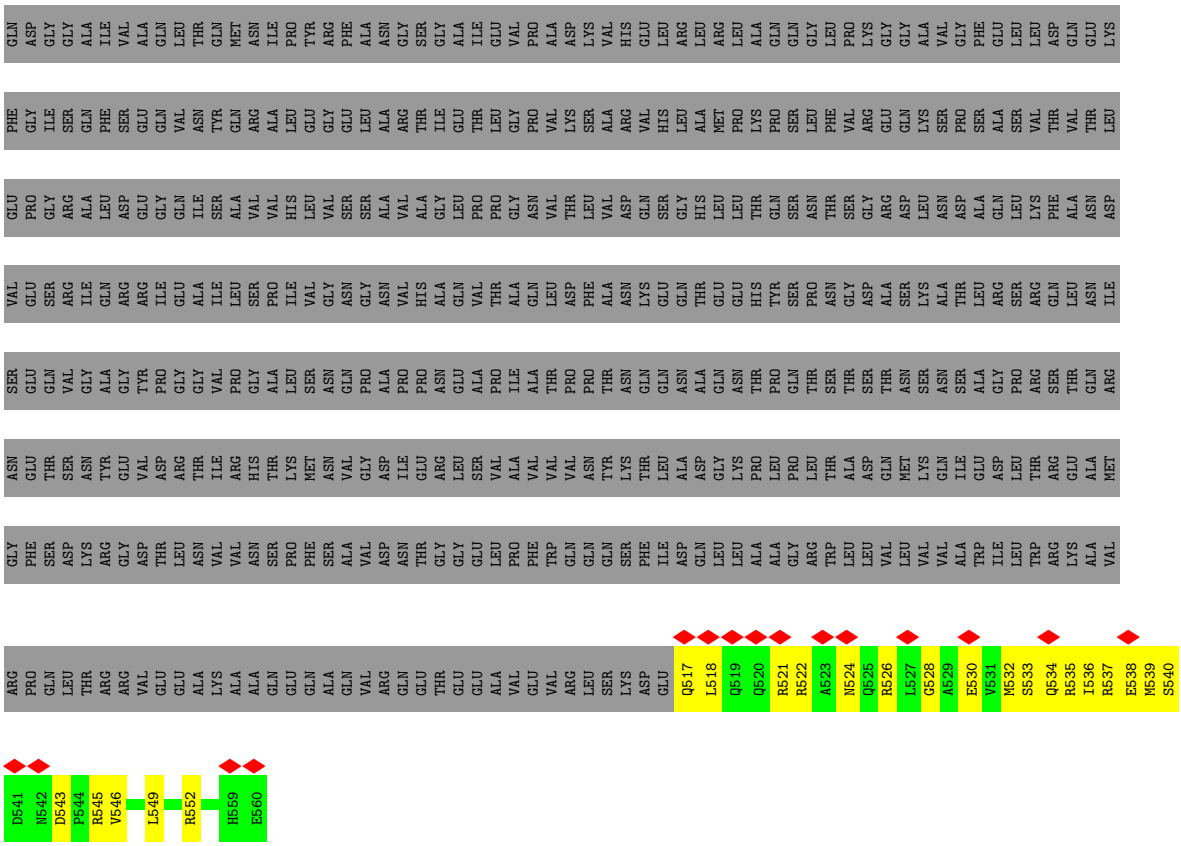


• Molecule 1: Flagellar M-ring protein

Chain AQ:

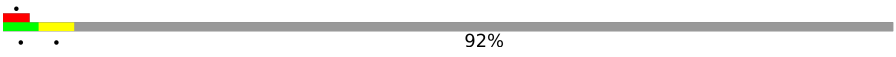


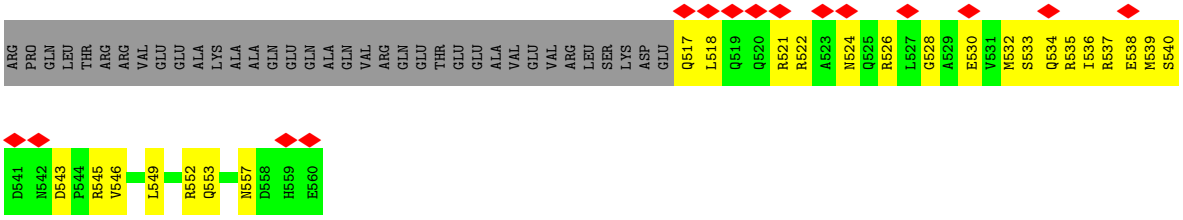




• Molecule 1: Flagellar M-ring protein

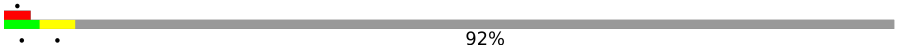
Chain AR:

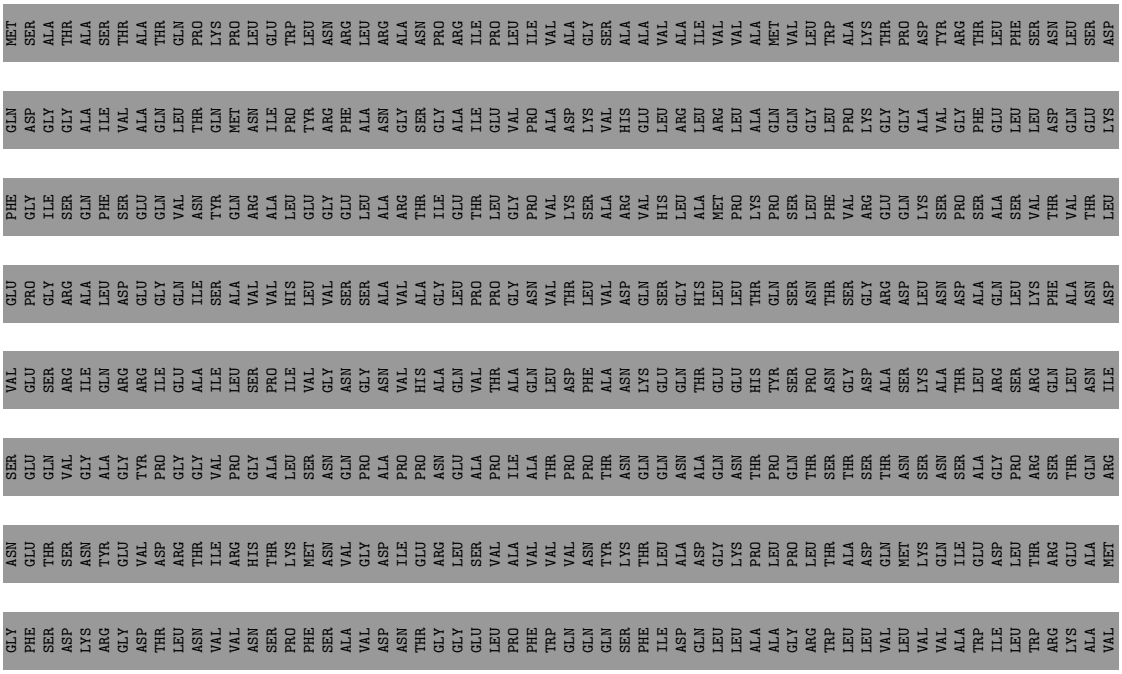


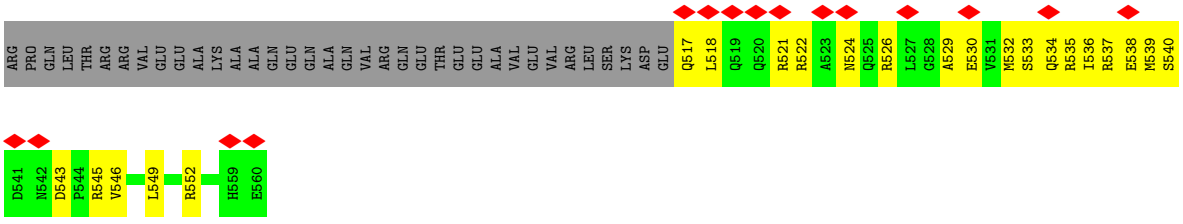


• Molecule 1: Flagellar M-ring protein

Chain AS:

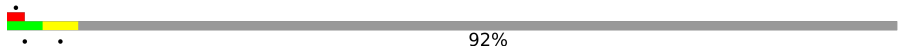


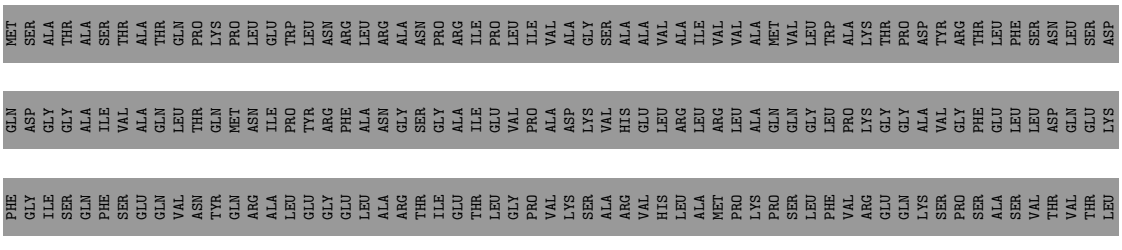


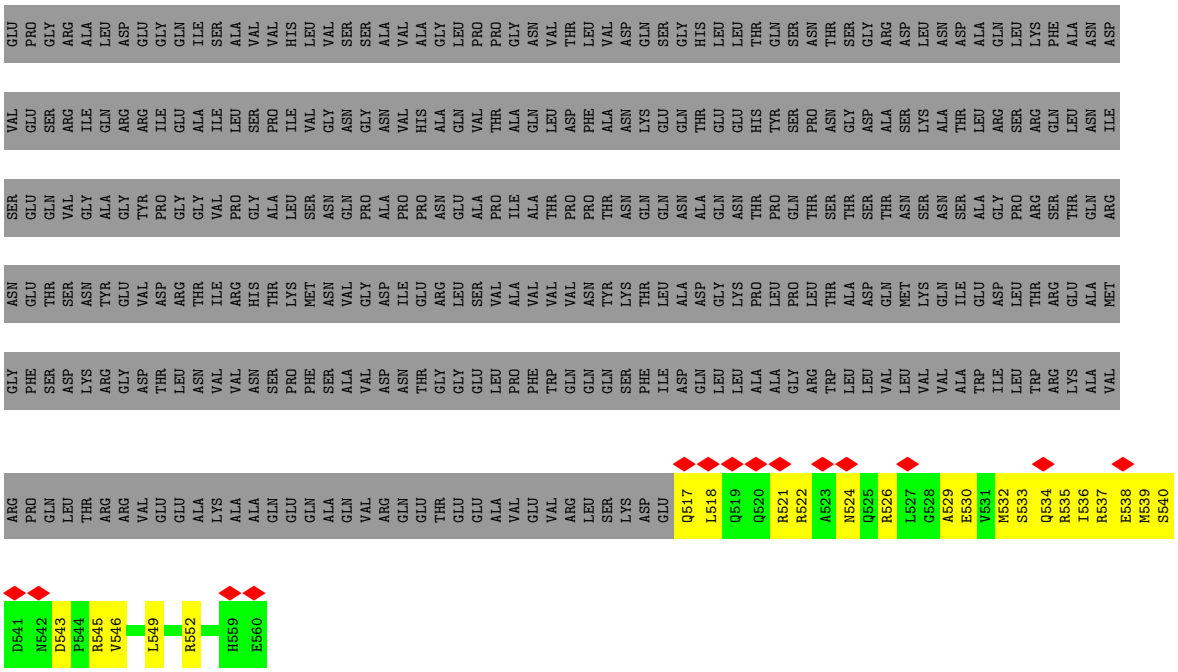


• Molecule 1: Flagellar M-ring protein

Chain AT:







• Molecule 1: Flagellar M-ring protein

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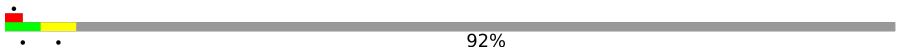
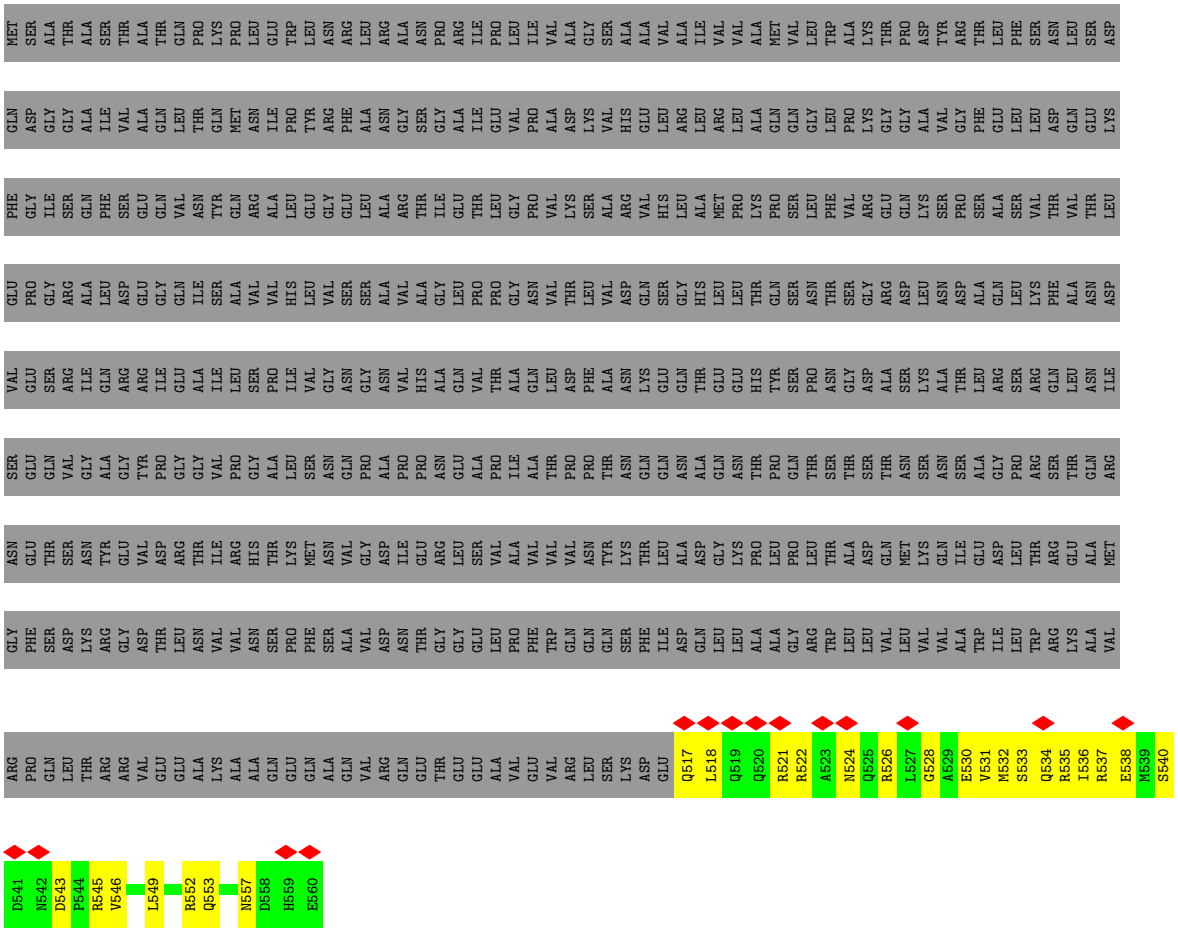
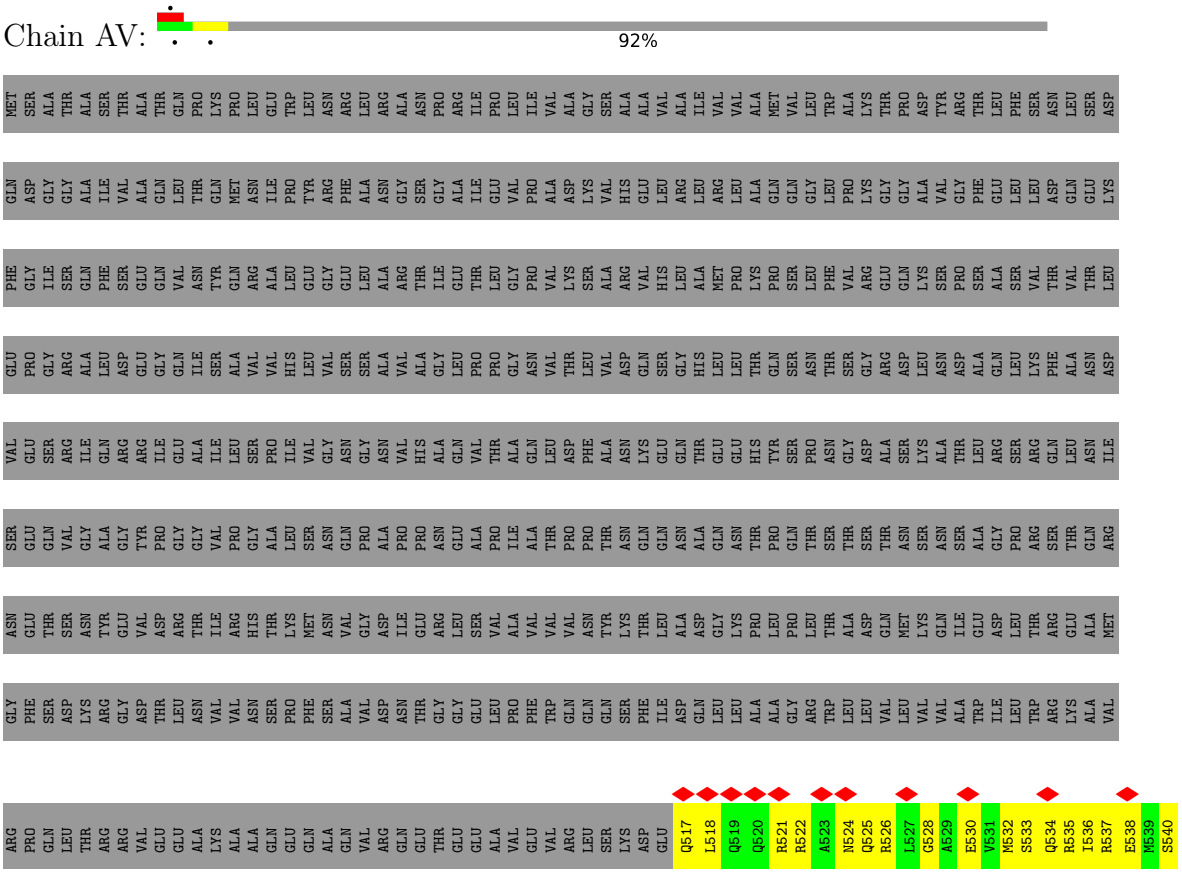




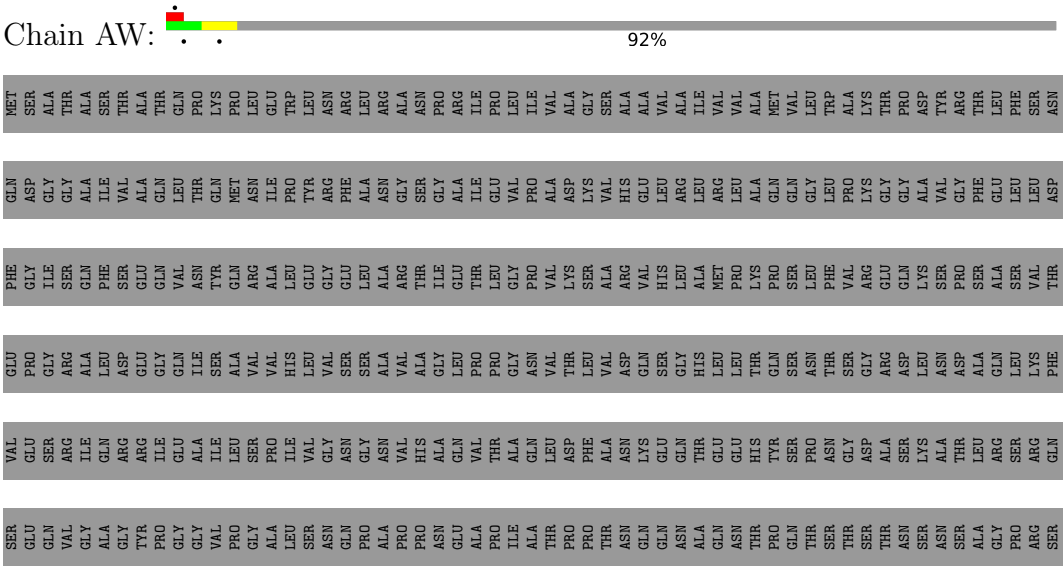
• Molecule 1: Flagellar M-ring protein

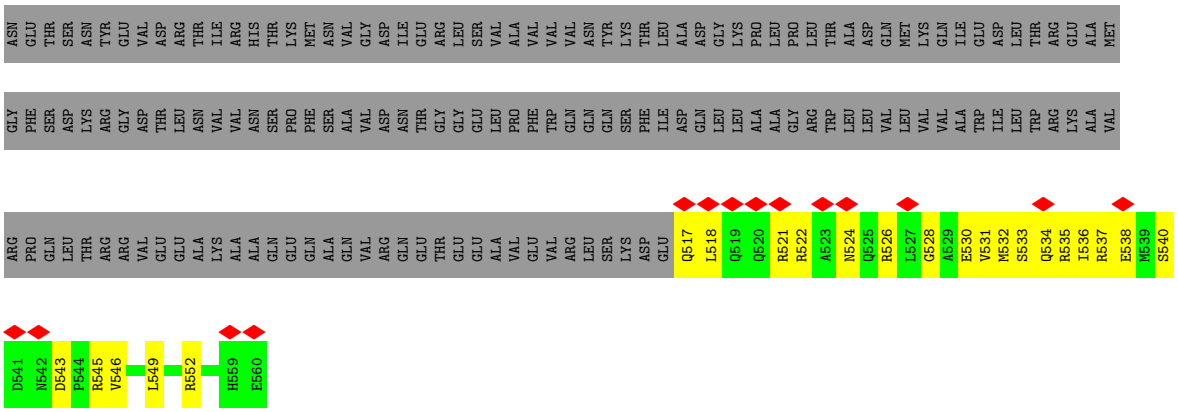
Chain AV:



• Molecule 1: Flagellar M-ring protein

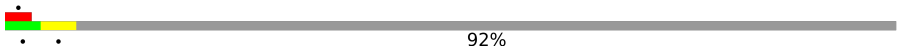
Chain AW:

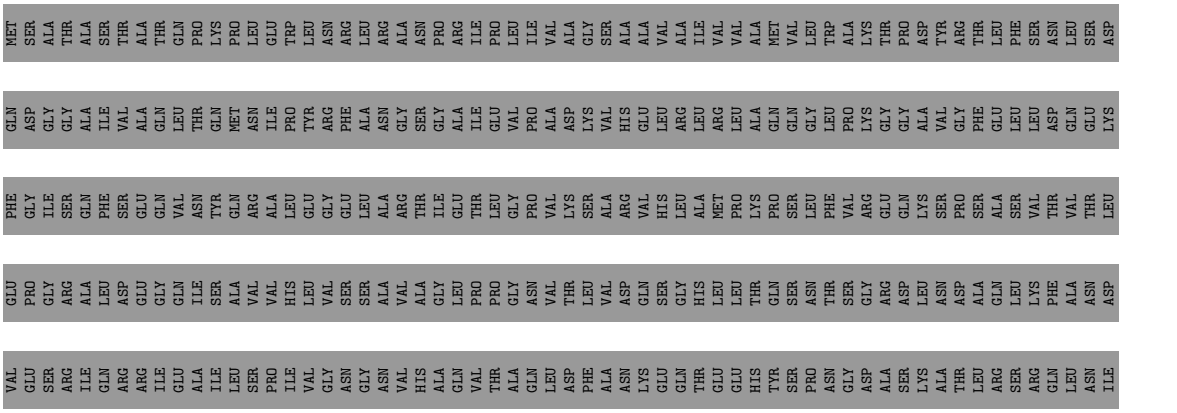




• Molecule 1: Flagellar M-ring protein

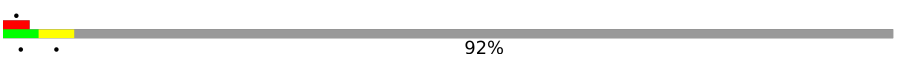
Chain AX:

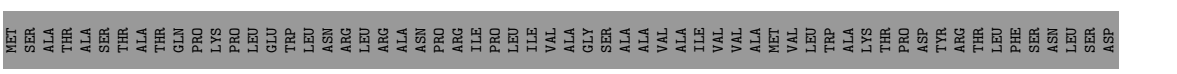


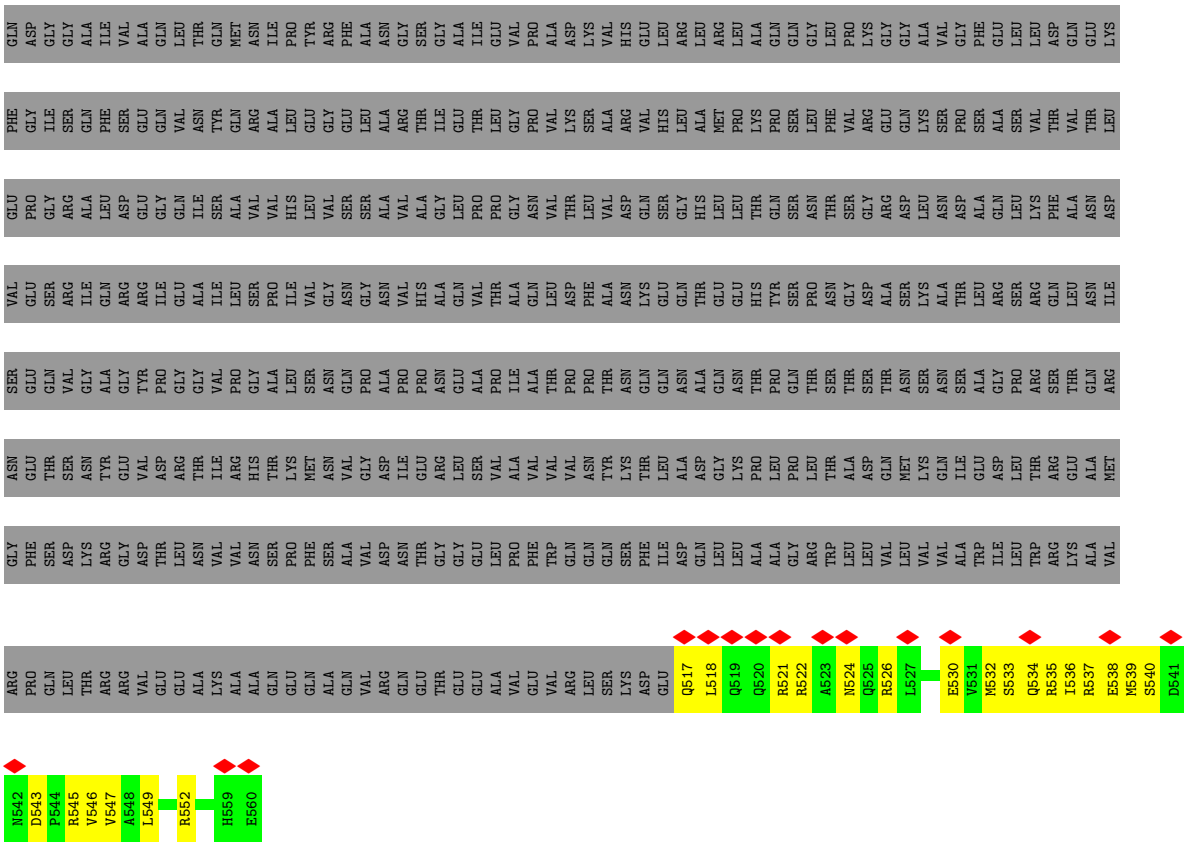


• Molecule 1: Flagellar M-ring protein

Chain AY:

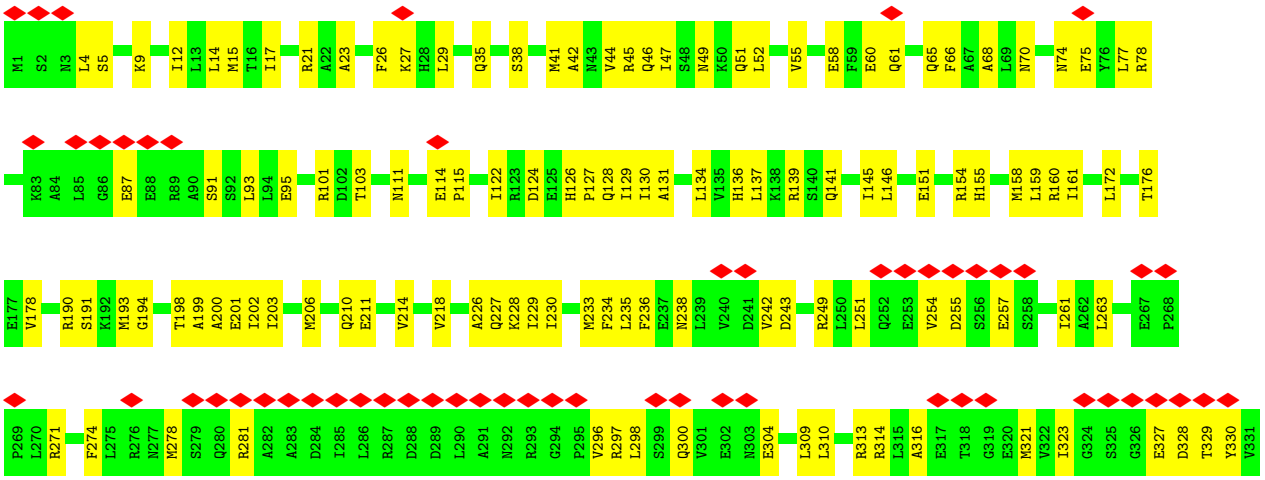






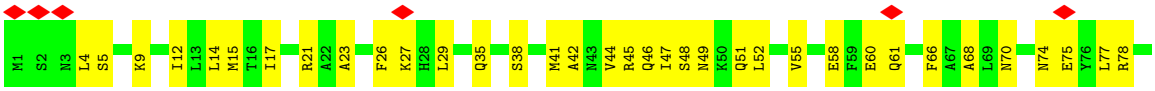
• Molecule 2: Flagellar motor switch protein FliG

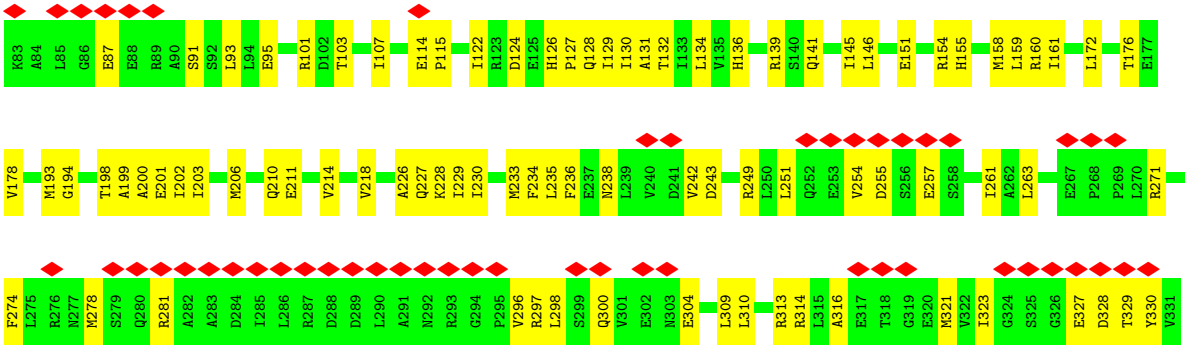
Chain B1:



• Molecule 2: Flagellar motor switch protein FliG

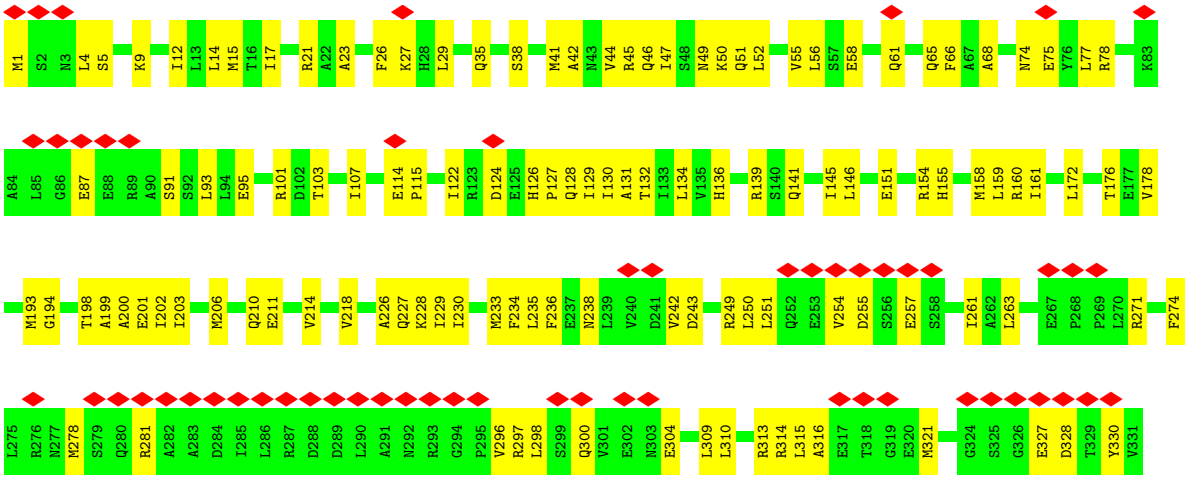
Chain B2:





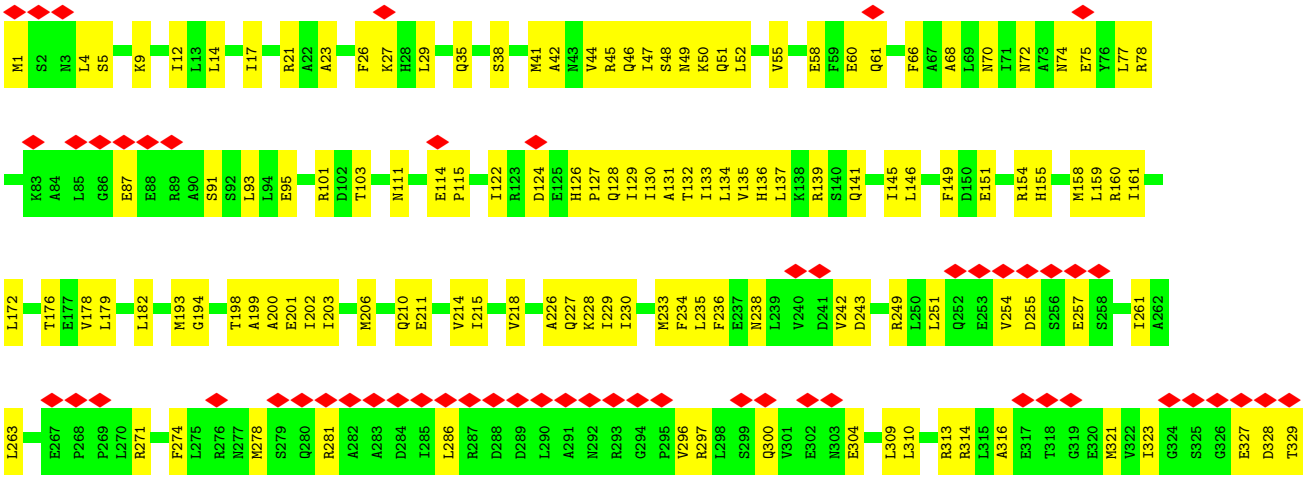
• Molecule 2: Flagellar motor switch protein FliG

Chain B3:



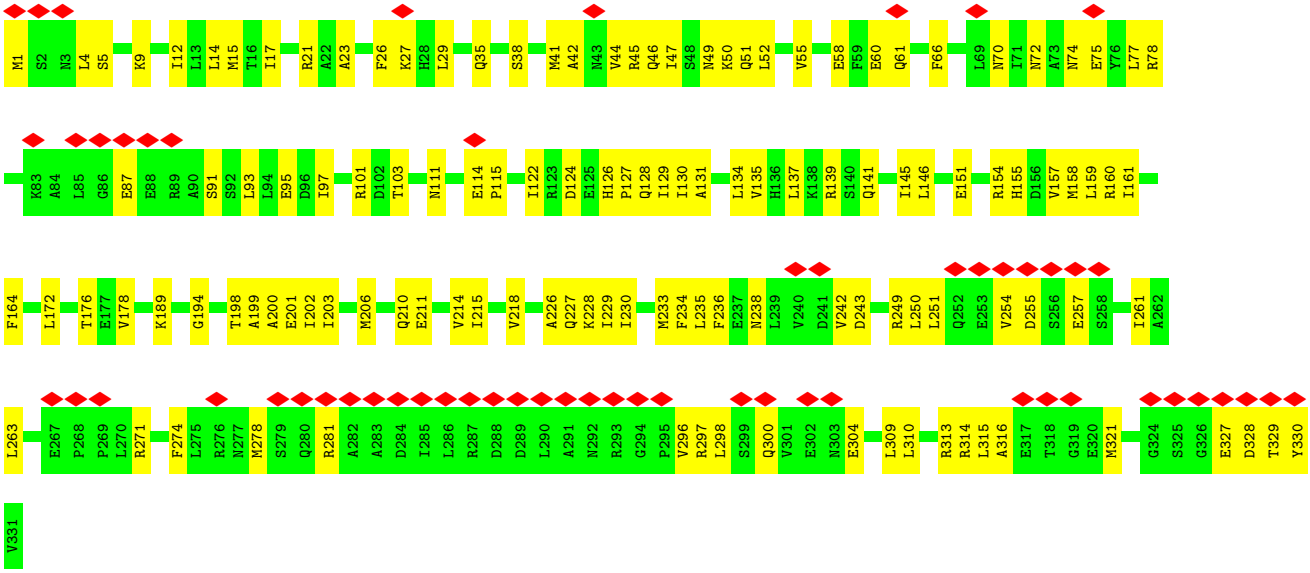
• Molecule 2: Flagellar motor switch protein FliG

Chain B4:



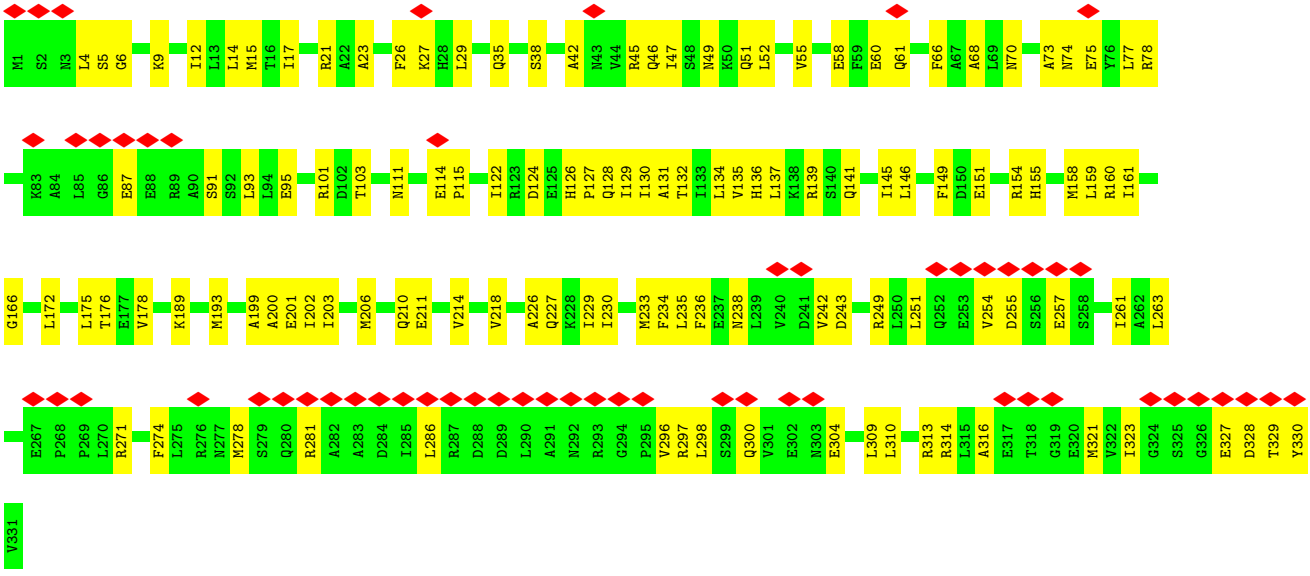
• Molecule 2: Flagellar motor switch protein FliG

Chain B5:



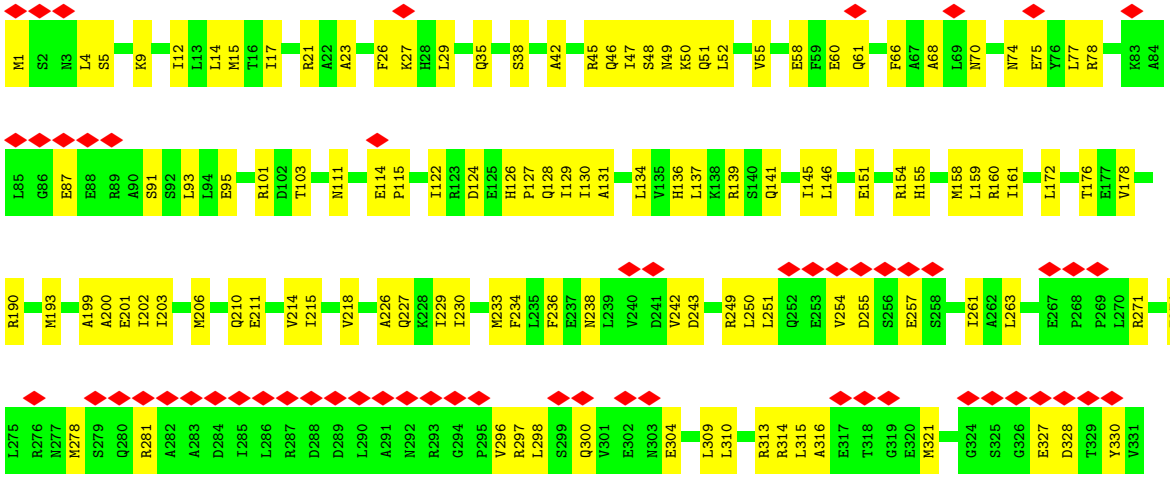
• Molecule 2: Flagellar motor switch protein FliG

Chain B6:



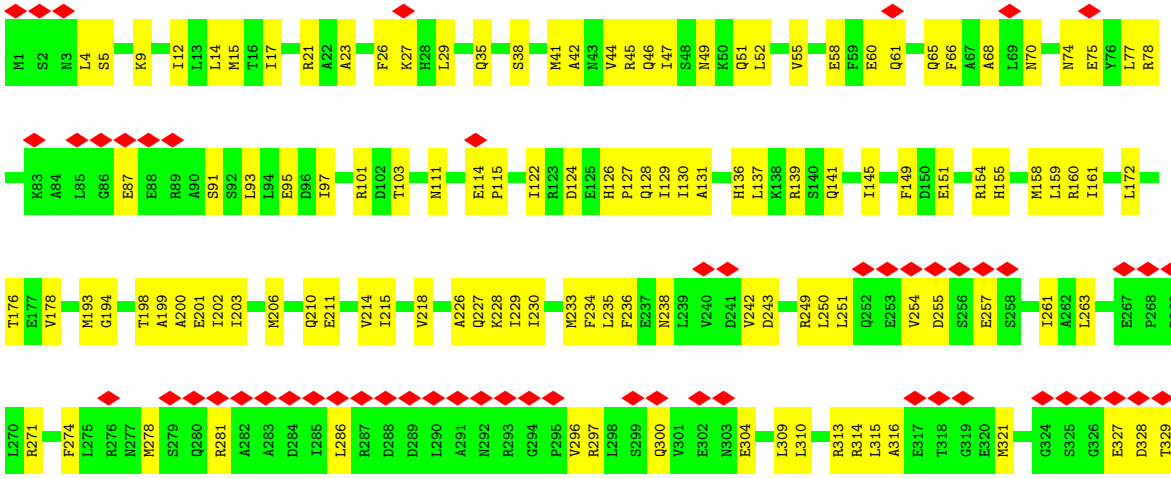
• Molecule 2: Flagellar motor switch protein FliG

Chain B7:



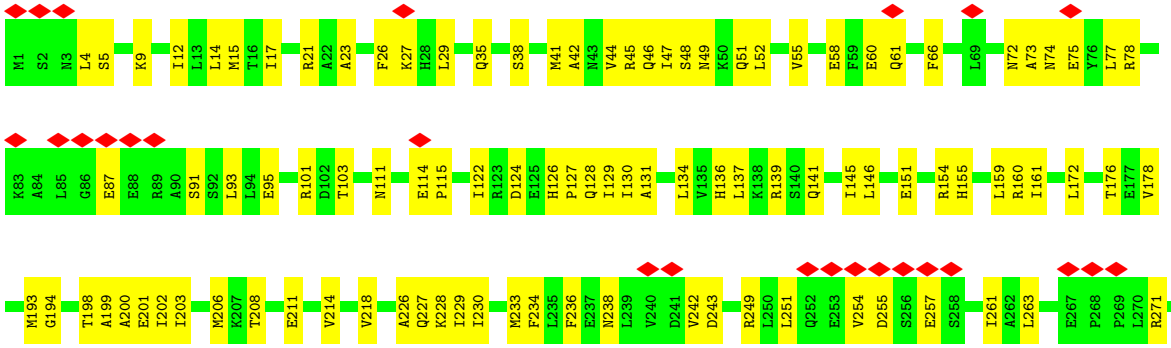
• Molecule 2: Flagellar motor switch protein FliG

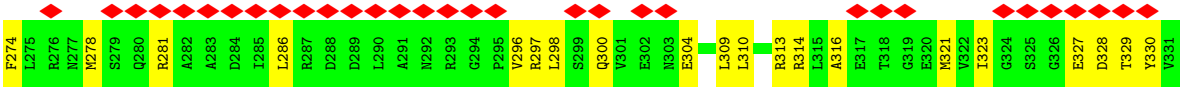
Chain B8:



• Molecule 2: Flagellar motor switch protein FliG

Chain B9:





• Molecule 2: Flagellar motor switch protein FliG

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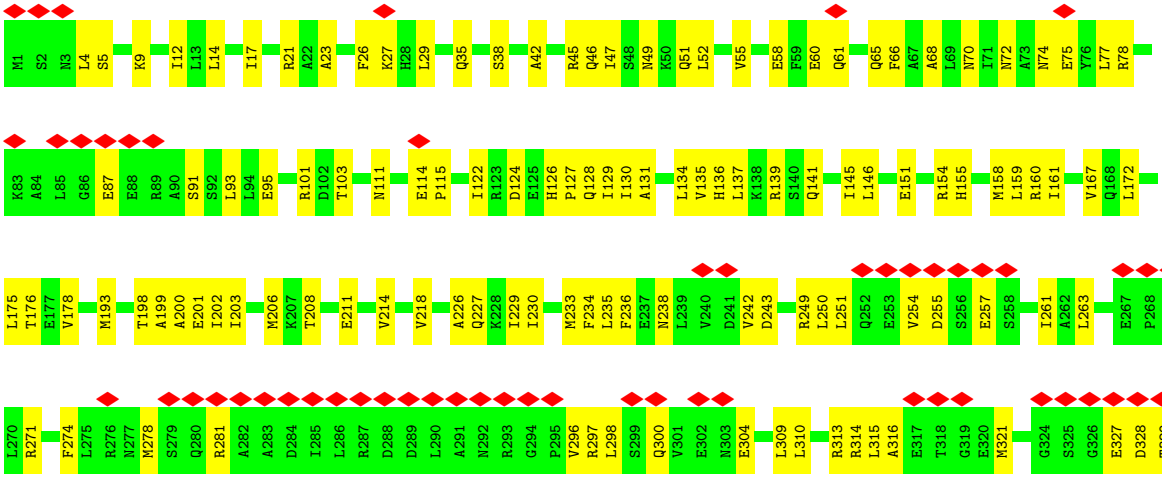

• Molecule 2: Flagellar motor switch protein FliG

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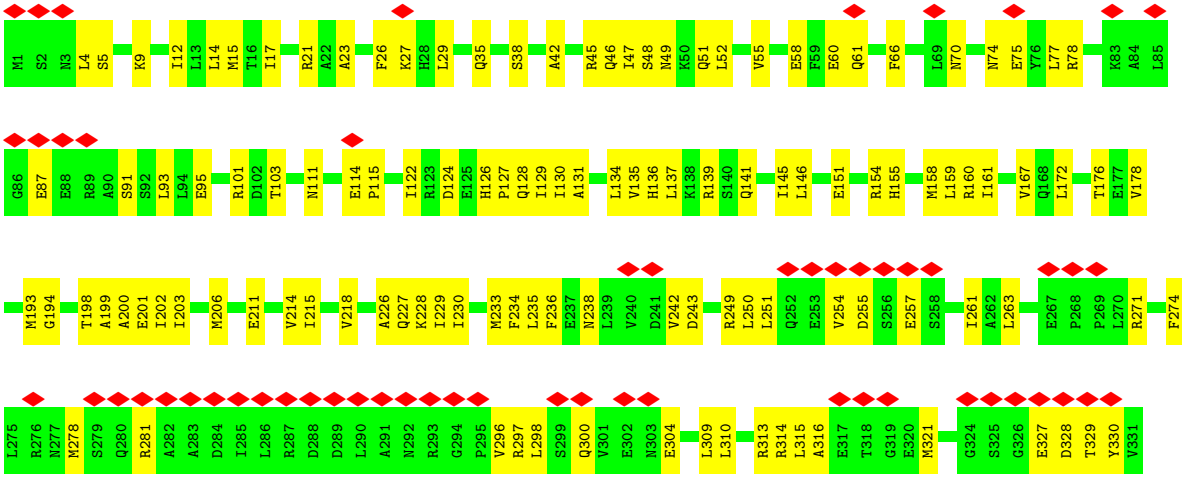

• Molecule 2: Flagellar motor switch protein FliG

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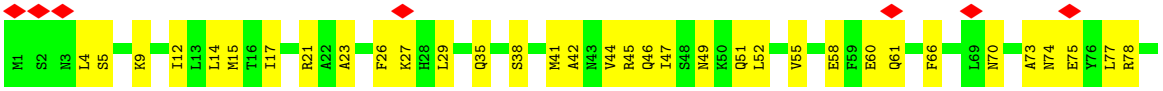

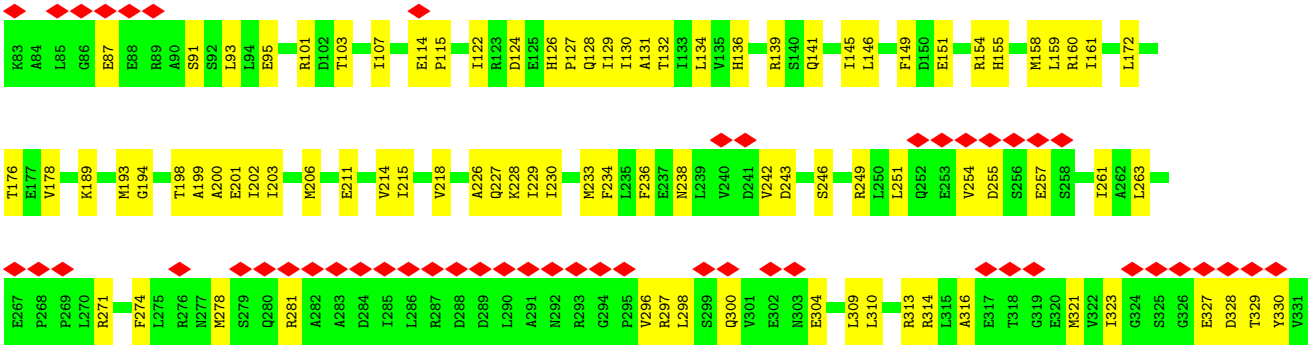

• Molecule 2: Flagellar motor switch protein FliG

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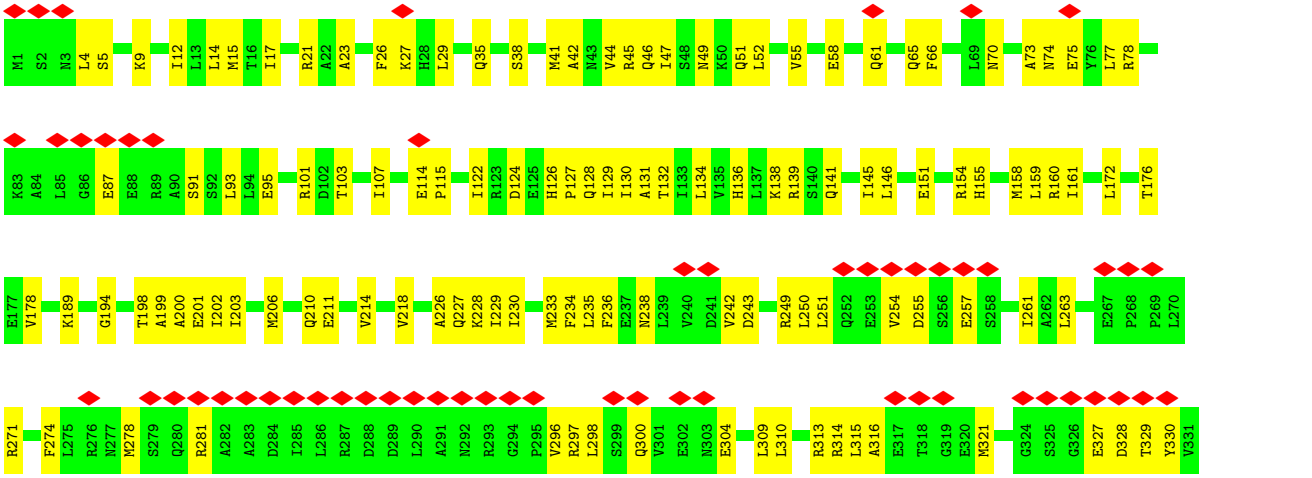
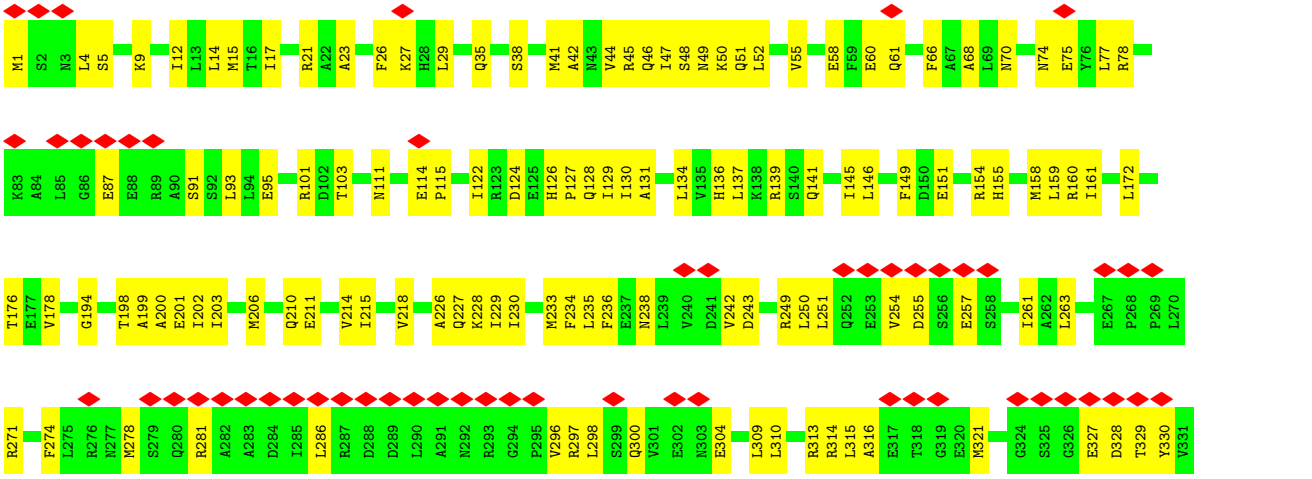


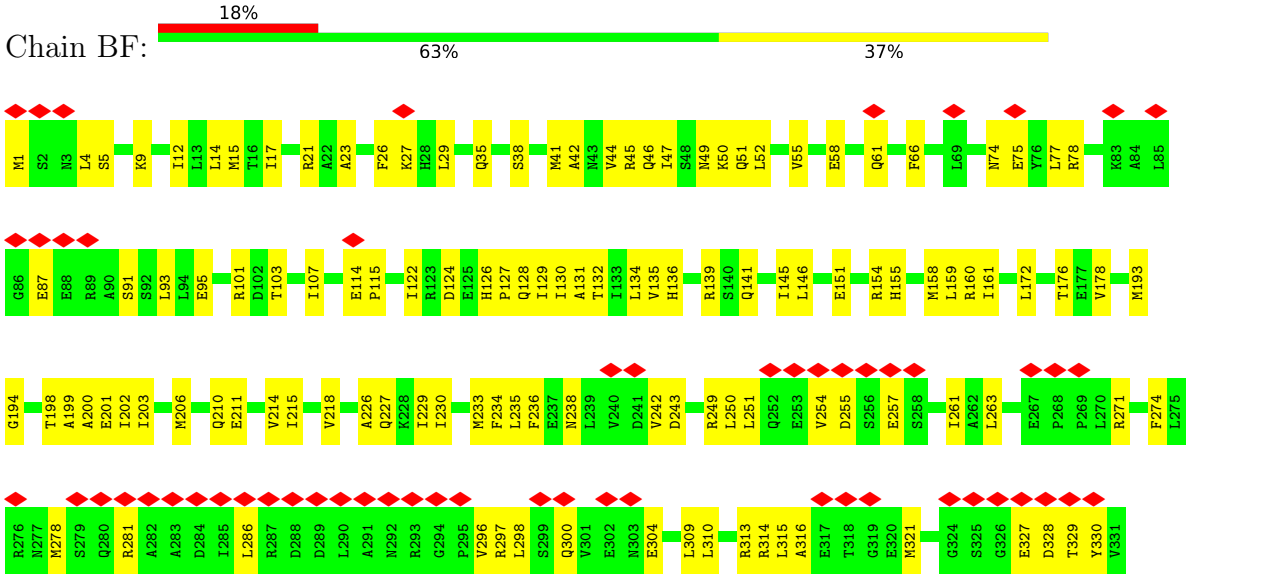
• Molecule 2: Flagellar motor switch protein FliG

Chain BE:



• Molecule 2: Flagellar motor switch protein FliG

Chain BF:



• Molecule 2: Flagellar motor switch protein FliG

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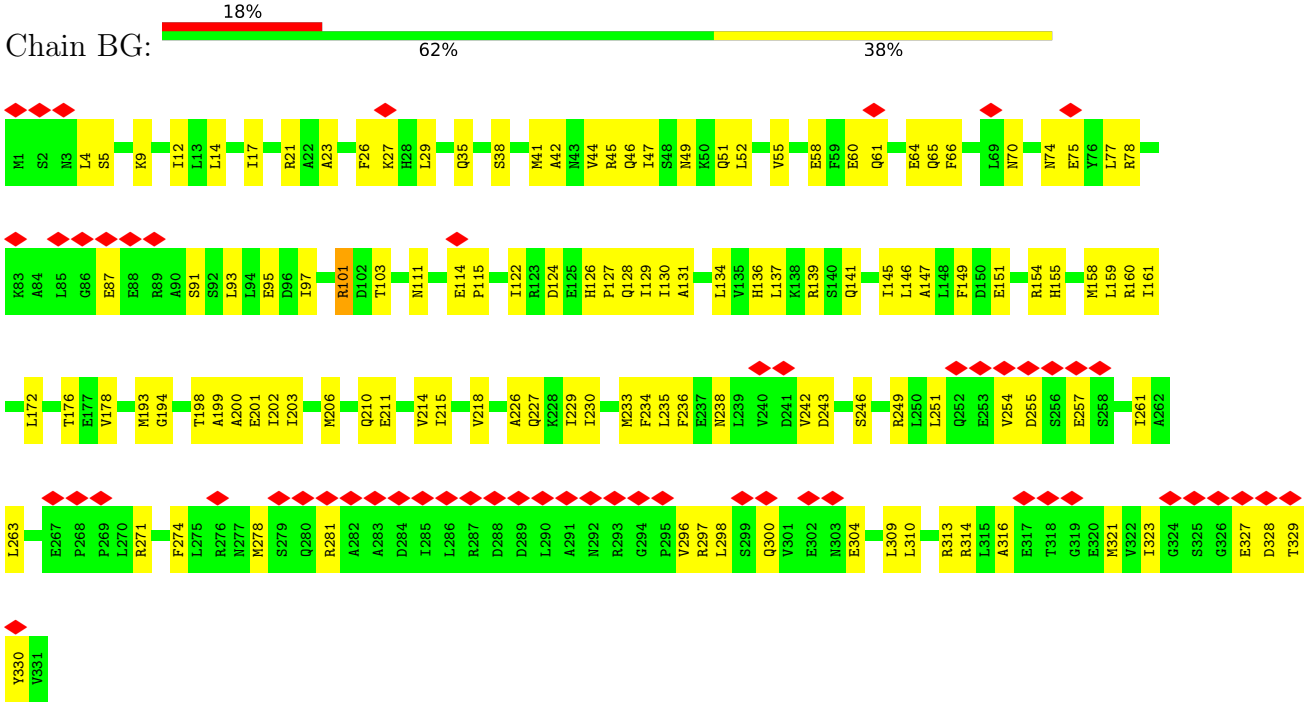

• Molecule 2: Flagellar motor switch protein FliG

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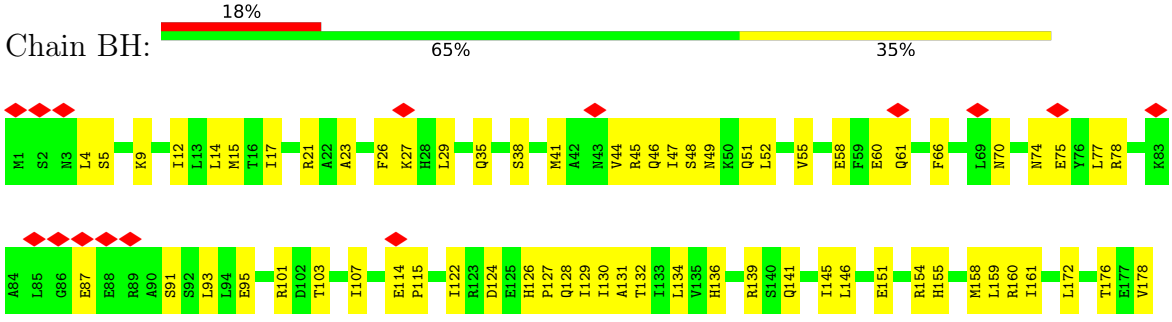

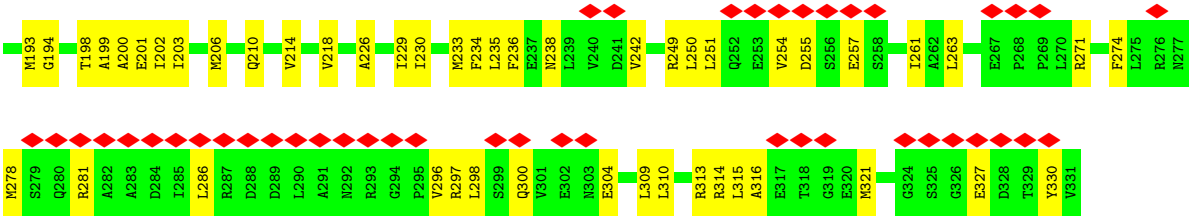

• Molecule 2: Flagellar motor switch protein FliG

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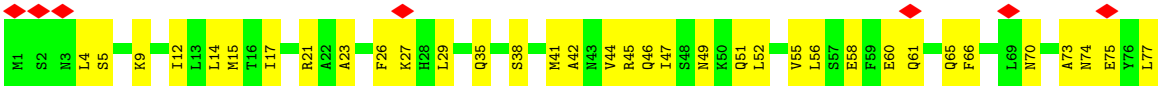
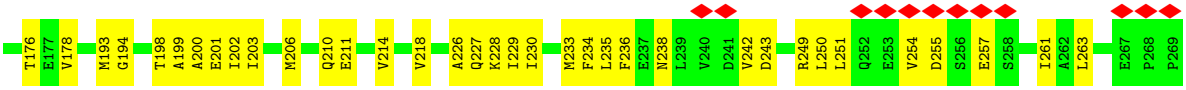
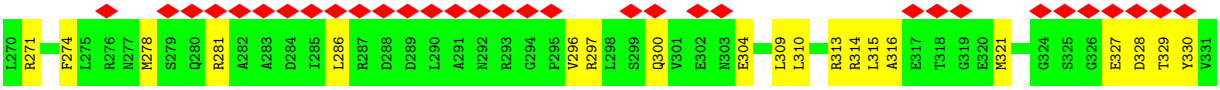
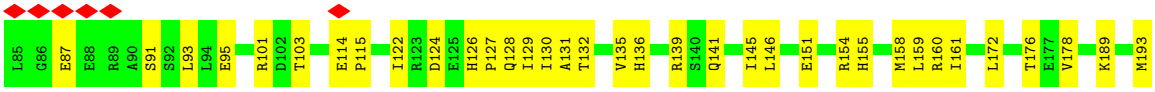


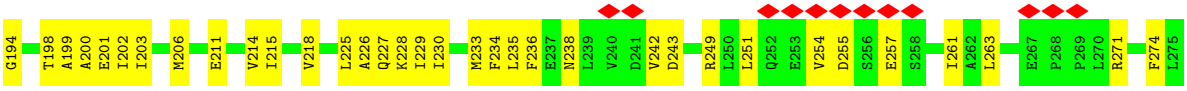


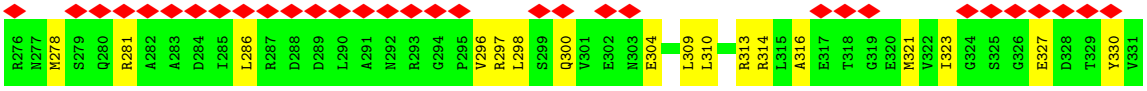


• Molecule 2: Flagellar motor switch protein FliG

Chain BJ:







• Molecule 2: Flagellar motor switch protein FliG

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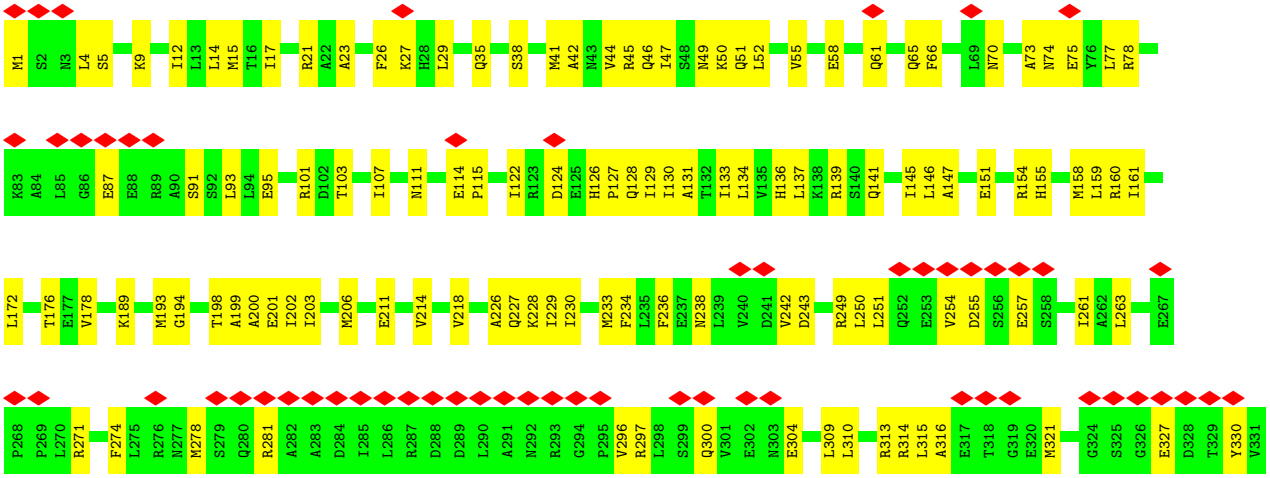
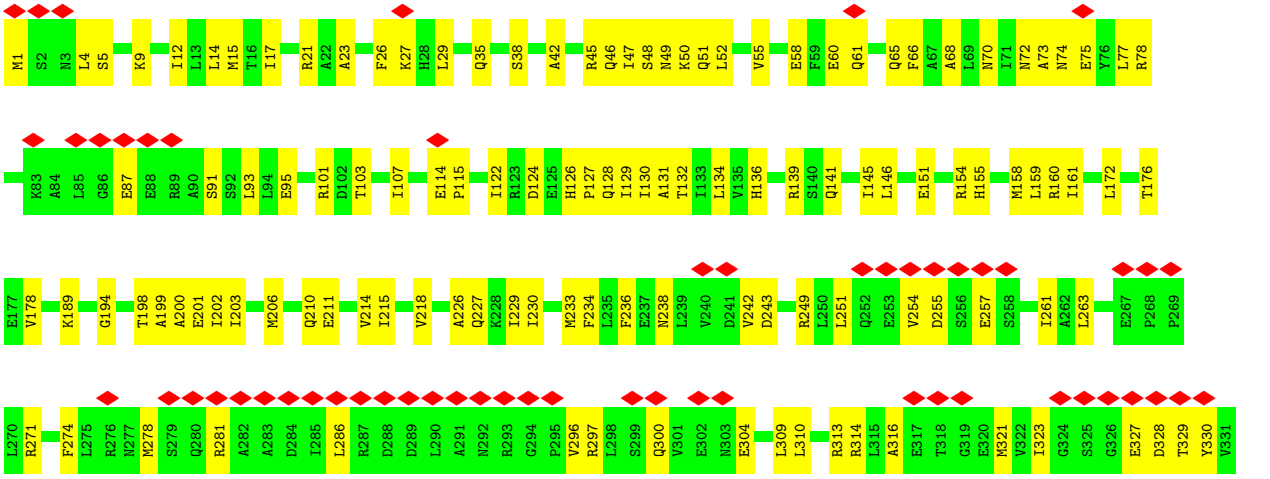


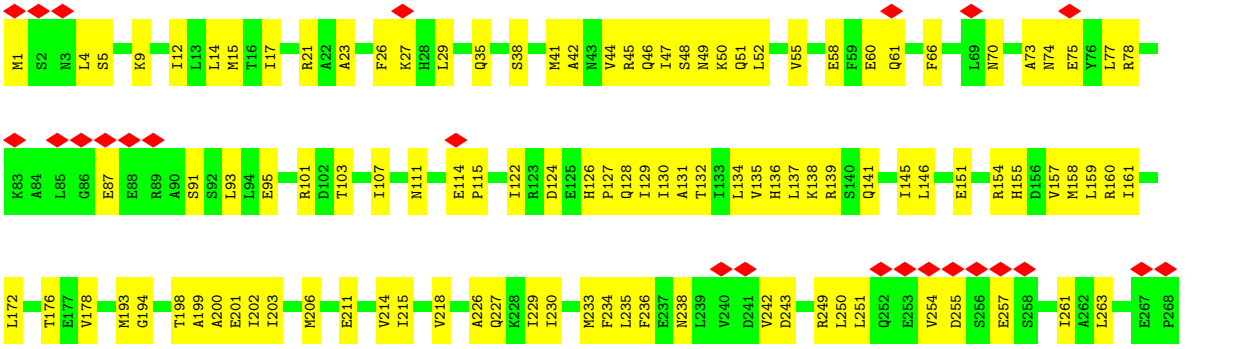
• Molecule 2: Flagellar motor switch protein FliG

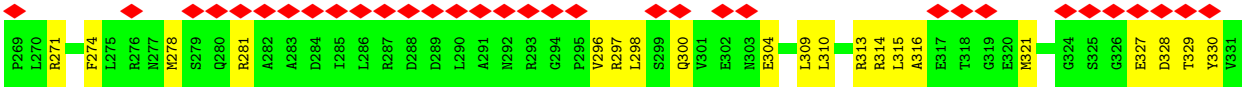
Chain BL:



• Molecule 2: Flagellar motor switch protein FliG

Chain BM:





• Molecule 2: Flagellar motor switch protein FliG

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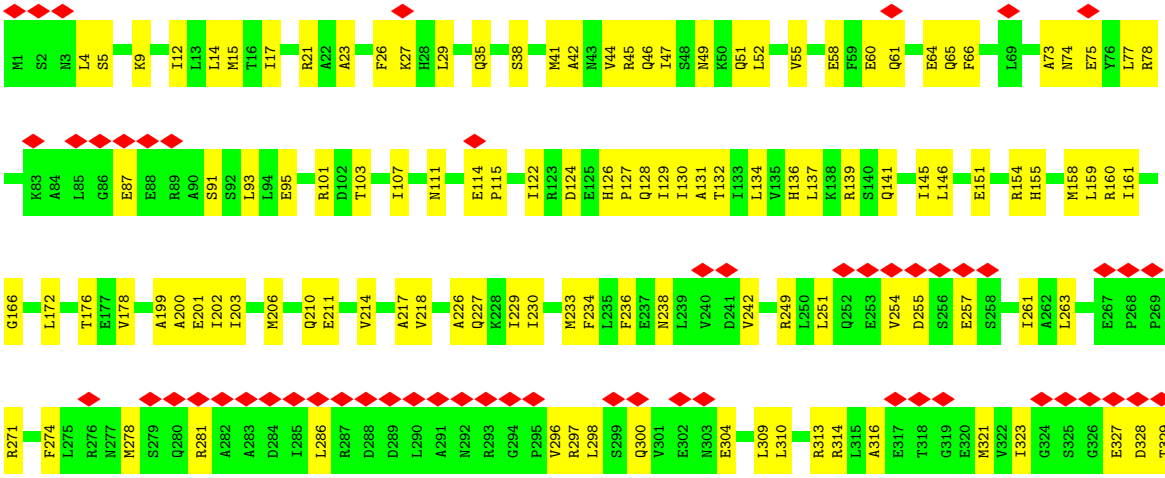

• Molecule 2: Flagellar motor switch protein FliG

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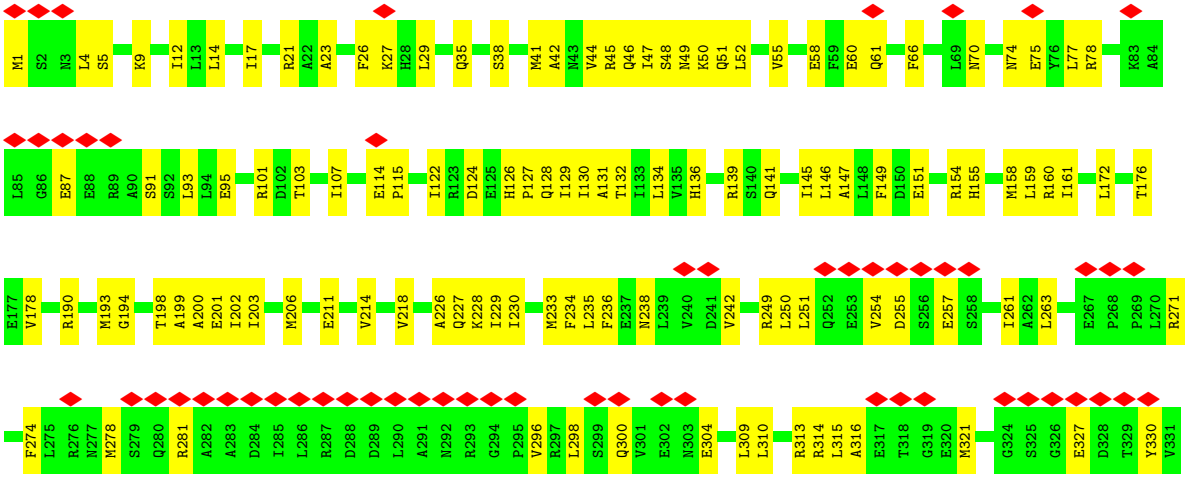

• Molecule 2: Flagellar motor switch protein FliG

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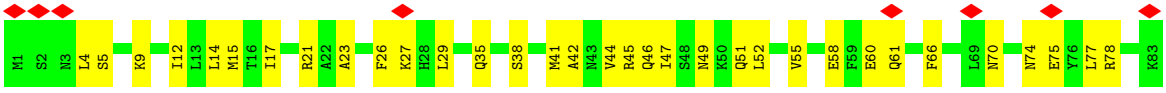

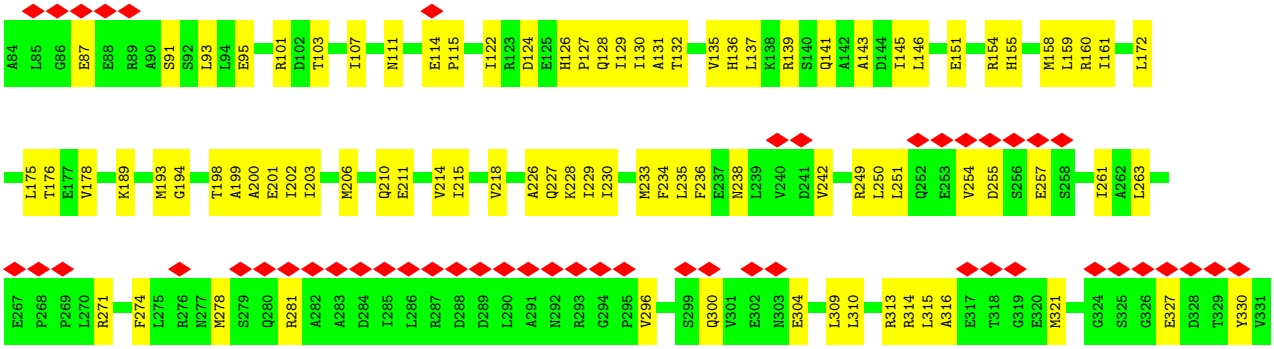

• Molecule 2: Flagellar motor switch protein FliG

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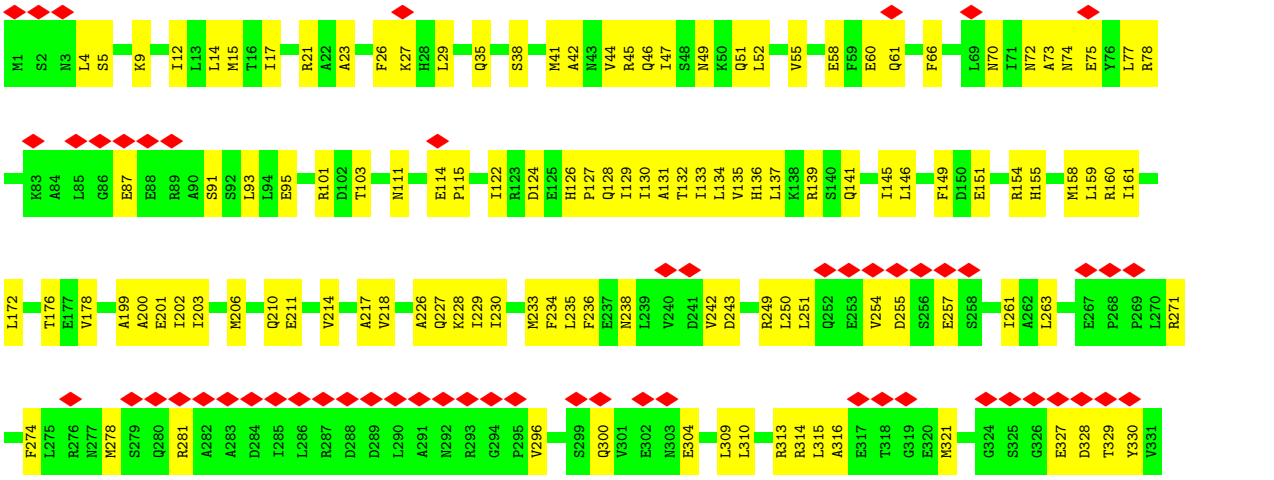

• Molecule 2: Flagellar motor switch protein FliG

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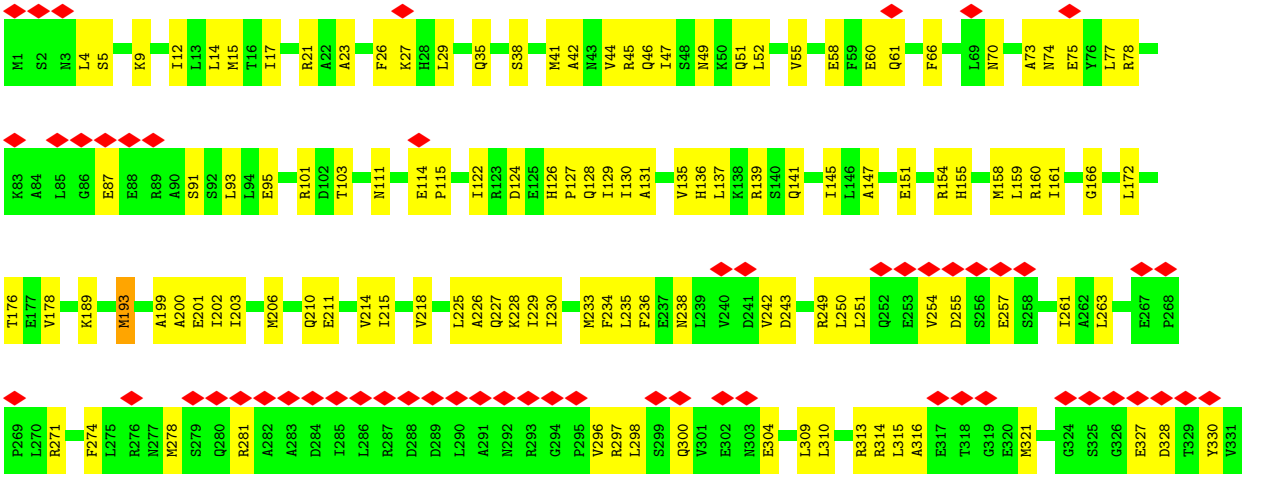

• Molecule 2: Flagellar motor switch protein FliG

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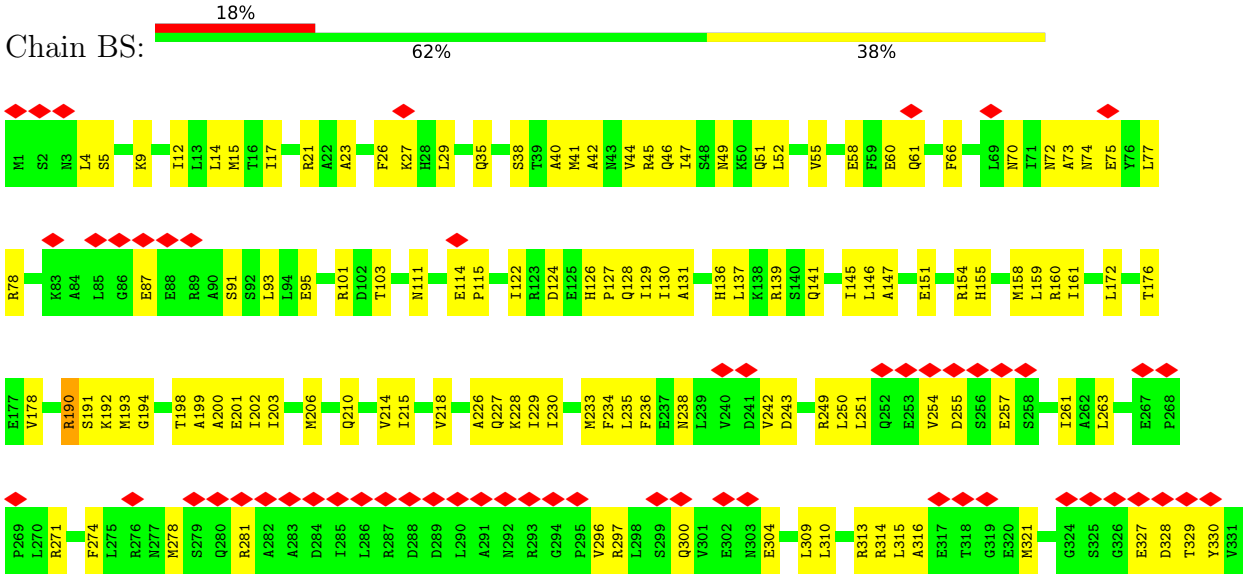
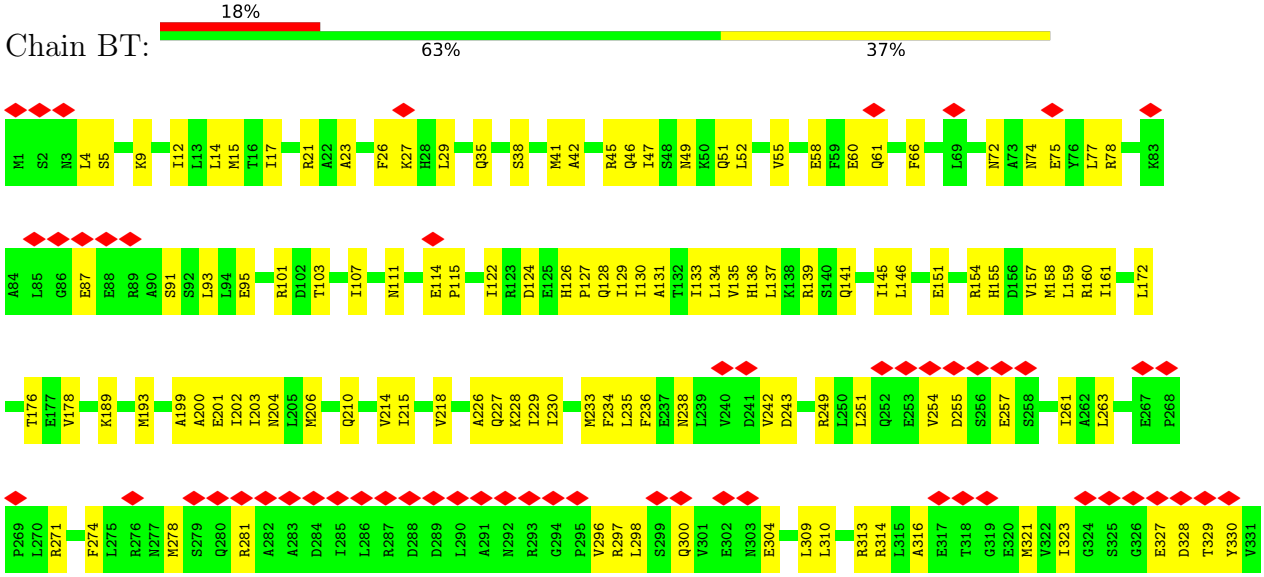


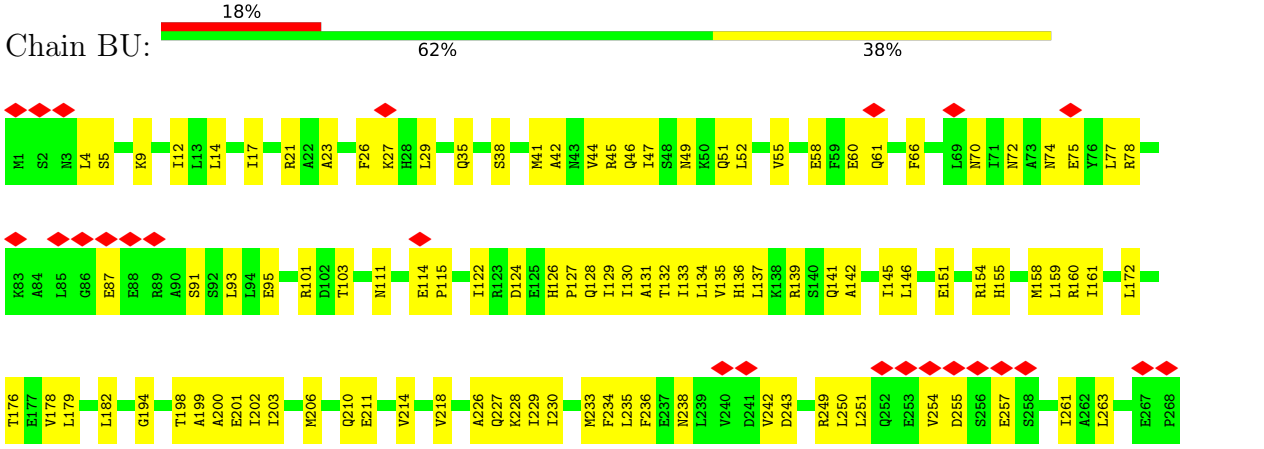
• Molecule 2: Flagellar motor switch protein FliG

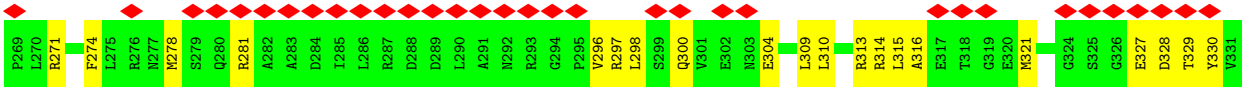
Chain BT:



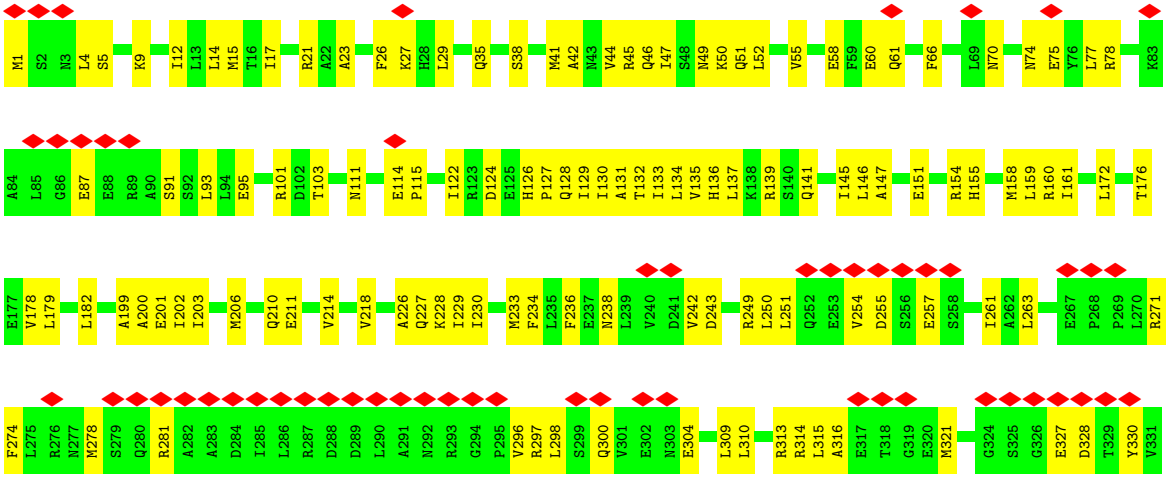
• Molecule 2: Flagellar motor switch protein FliG

Chain BU:

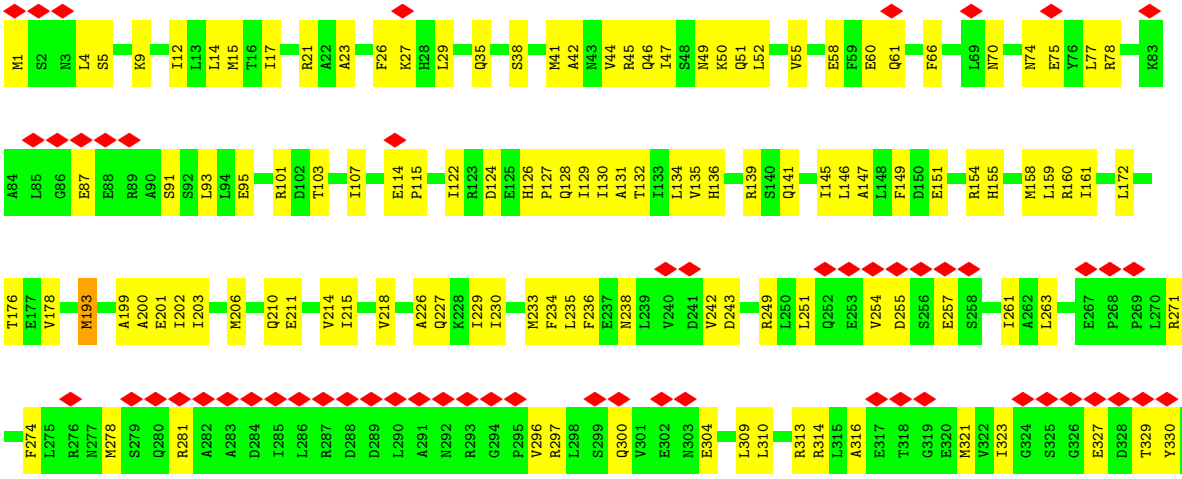




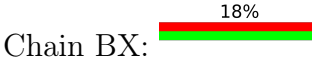
• Molecule 2: Flagellar motor switch protein FliG

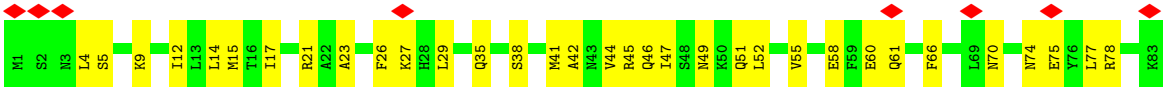


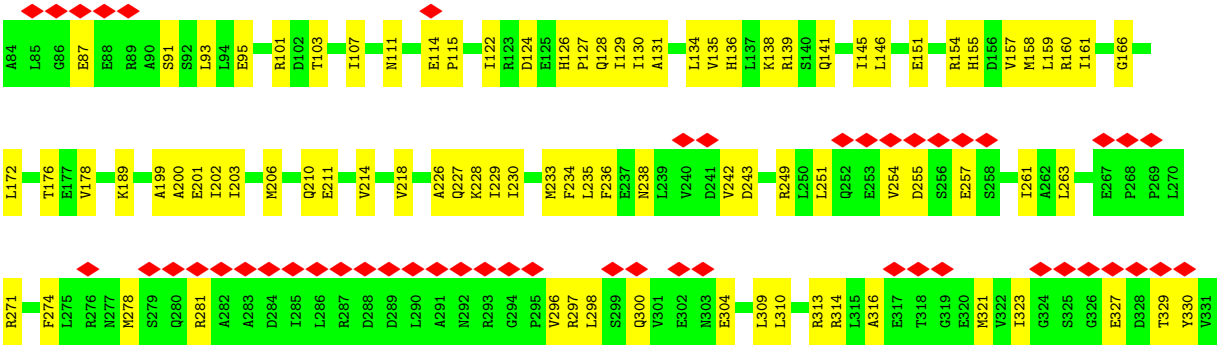
• Molecule 2: Flagellar motor switch protein FliG



• Molecule 2: Flagellar motor switch protein FliG

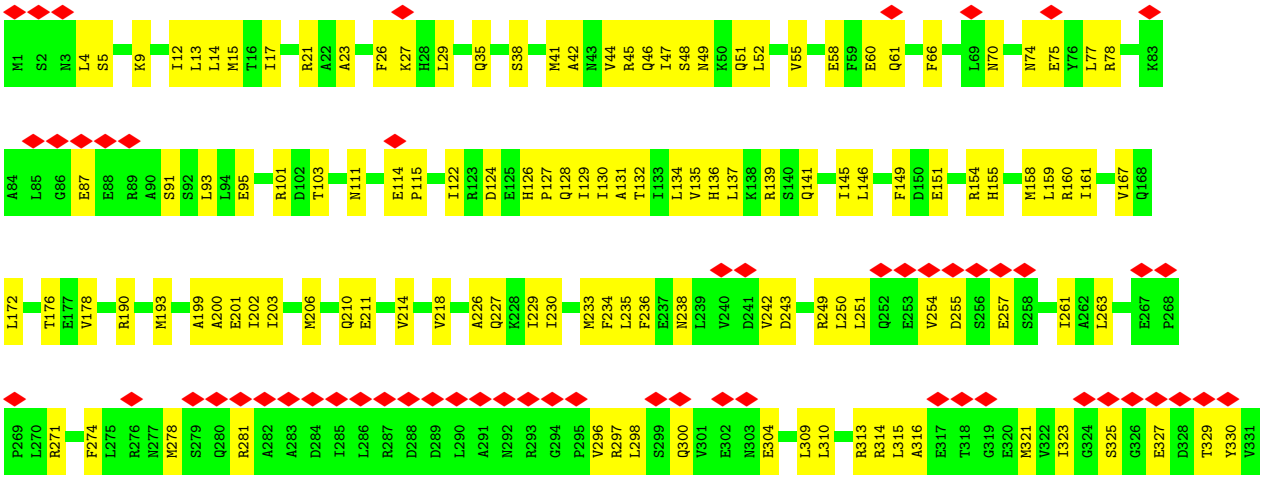






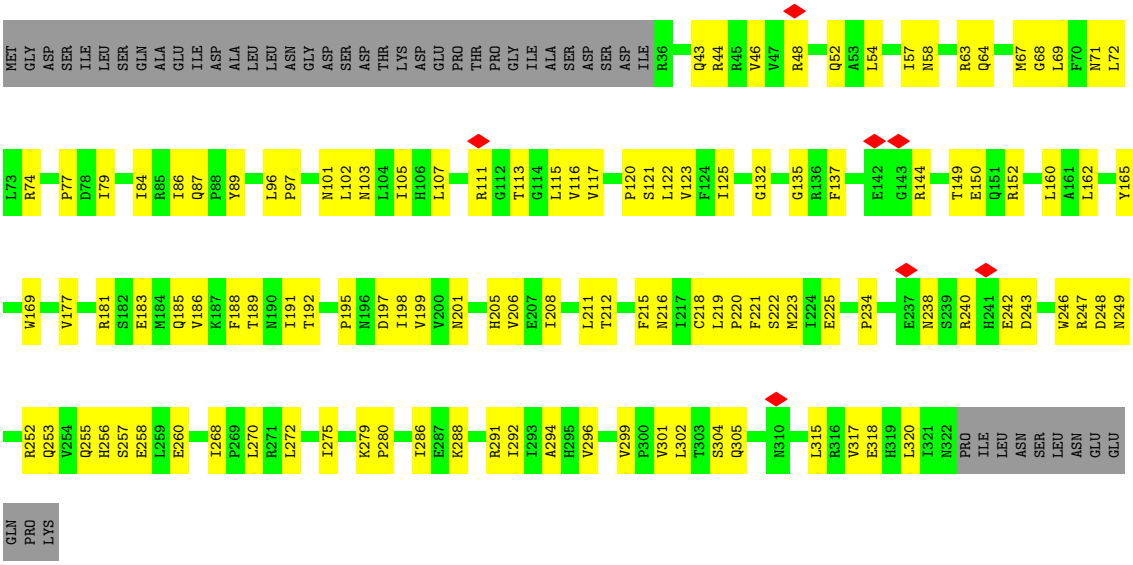
• Molecule 2: Flagellar motor switch protein FliG

Chain BY:



• Molecule 3: Flagellar motor switch protein FliM

Chain C1:



• Molecule 3: Flagellar motor switch protein FliM

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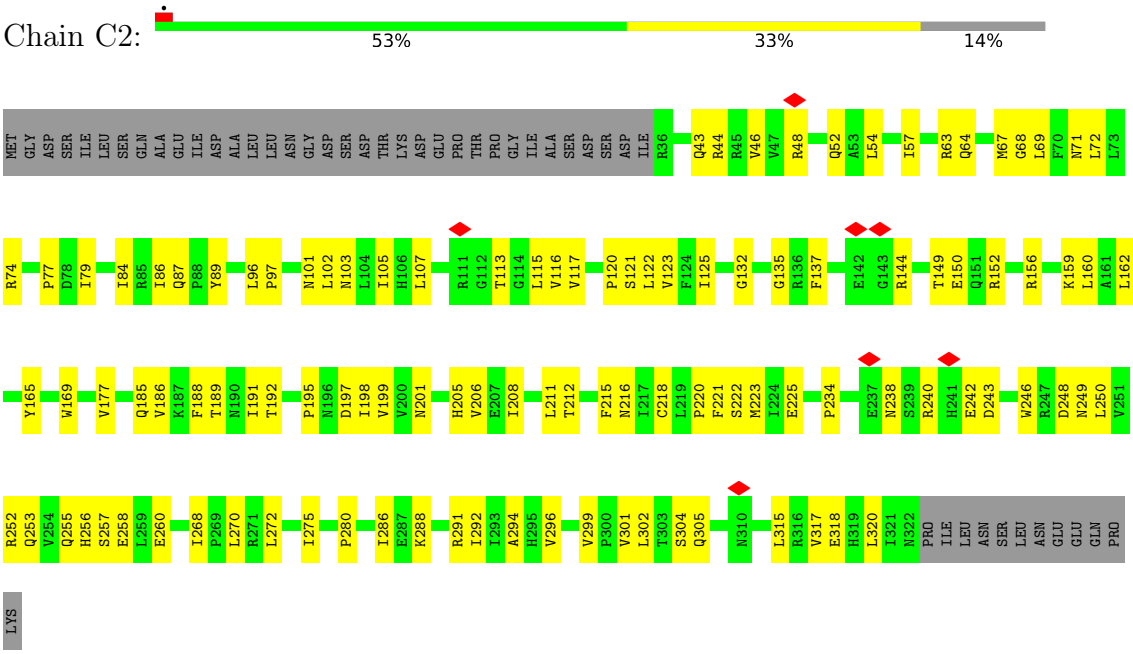

• Molecule 3: Flagellar motor switch protein FliM

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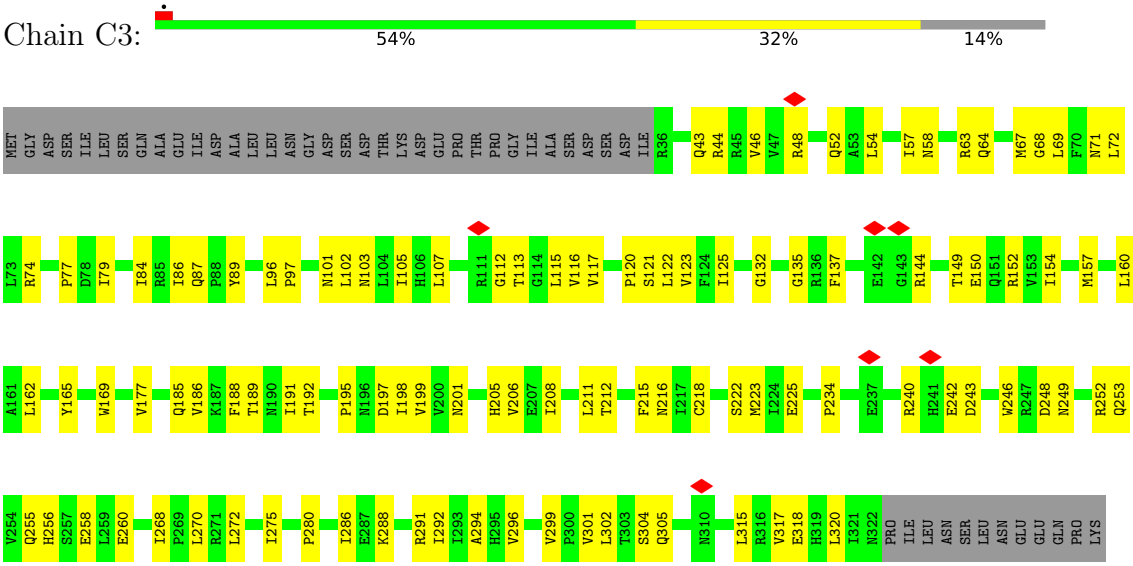
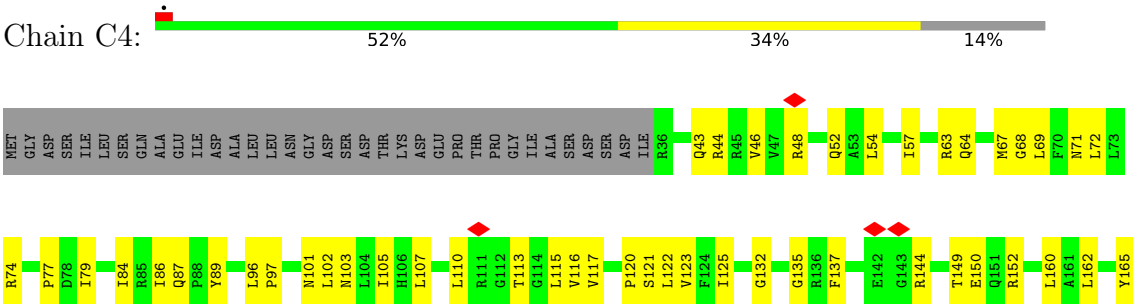


• Molecule 3: Flagellar motor switch protein FliM

Chain C4:



• Molecule 3: Flagellar motor switch protein FliM

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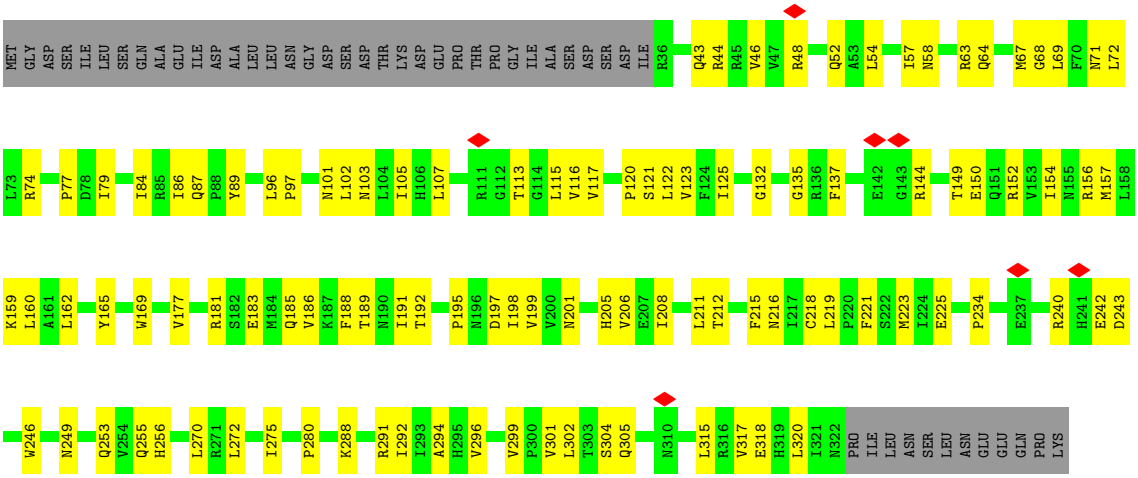
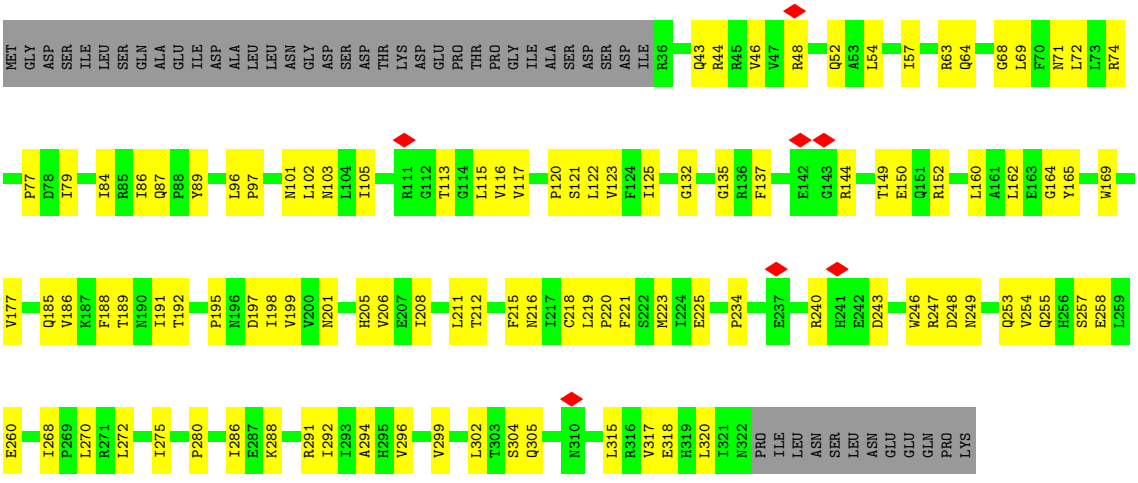


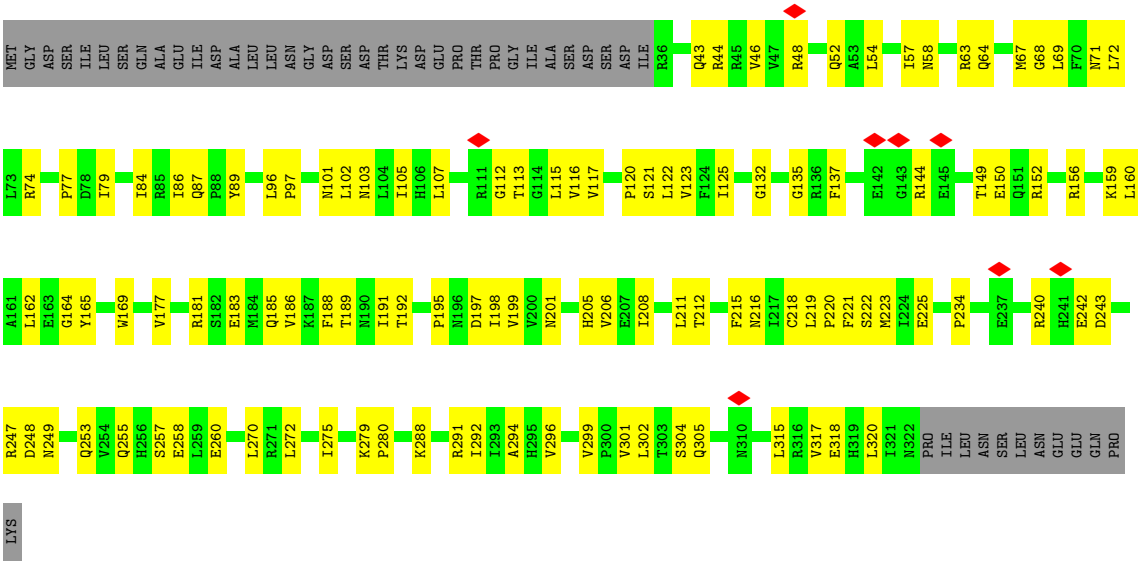
• Molecule 3: Flagellar motor switch protein FliM

Chain C6:



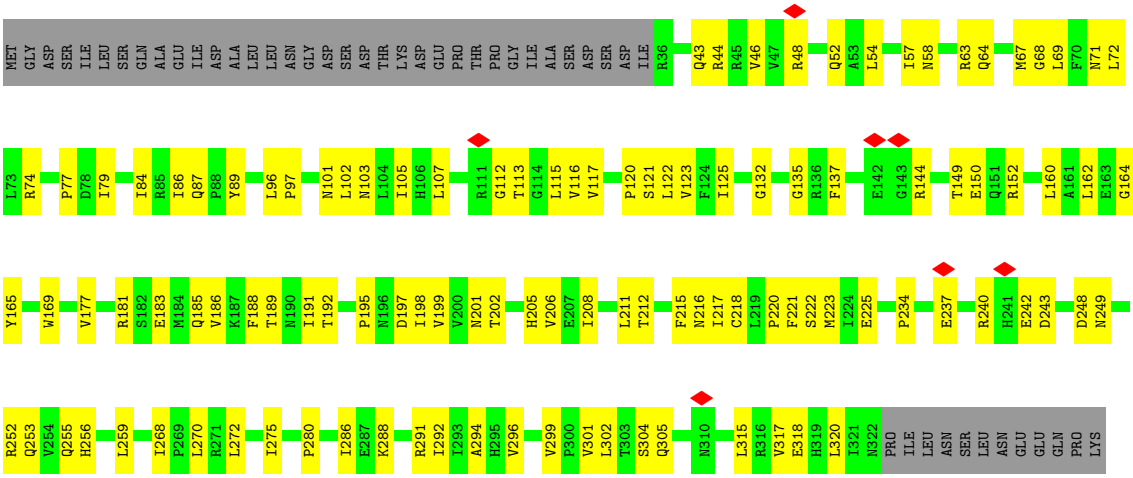
• Molecule 3: Flagellar motor switch protein FliM

Chain C7:



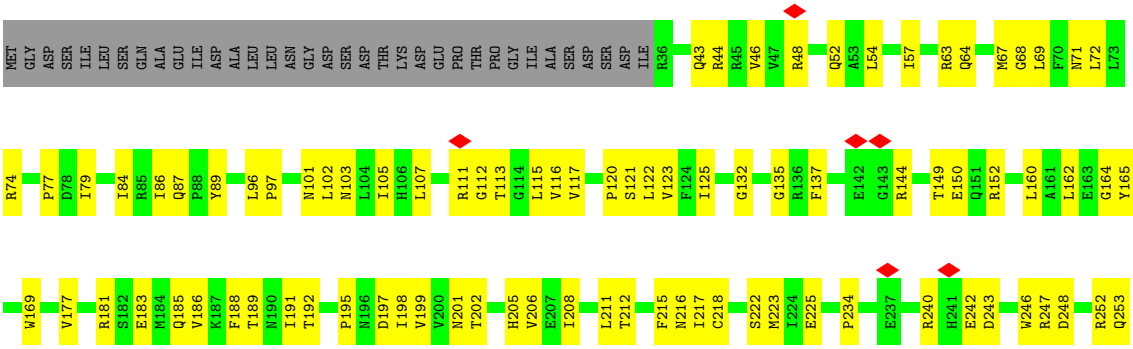
• Molecule 3: Flagellar motor switch protein FliM

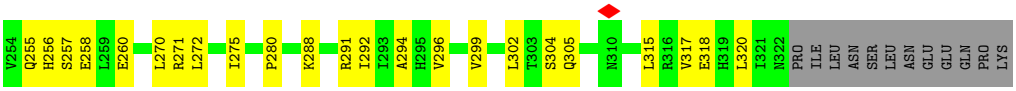
Chain C8:



• Molecule 3: Flagellar motor switch protein FliM

Chain C9:





• Molecule 3: Flagellar motor switch protein FliM

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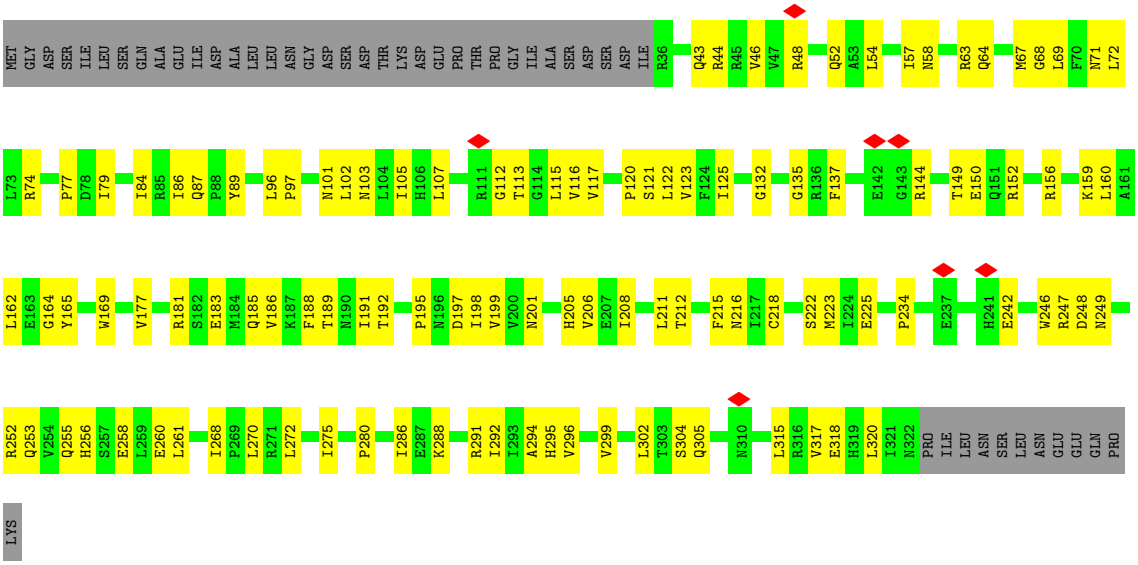

• Molecule 3: Flagellar motor switch protein FliM

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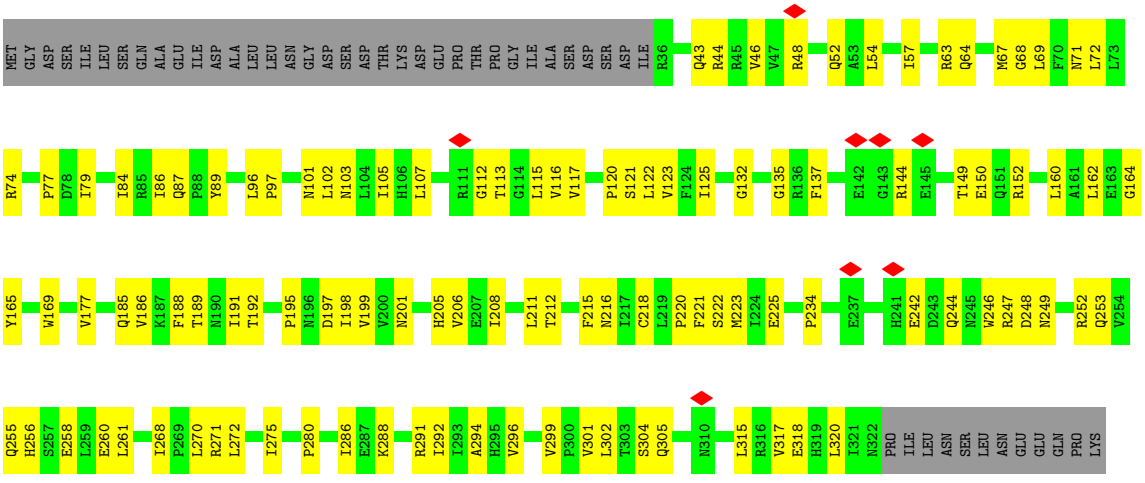

• Molecule 3: Flagellar motor switch protein FliM

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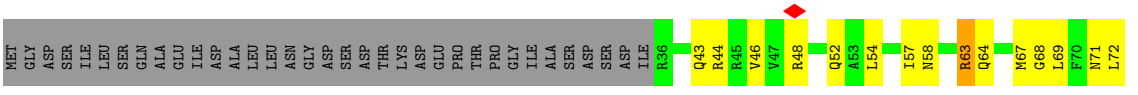

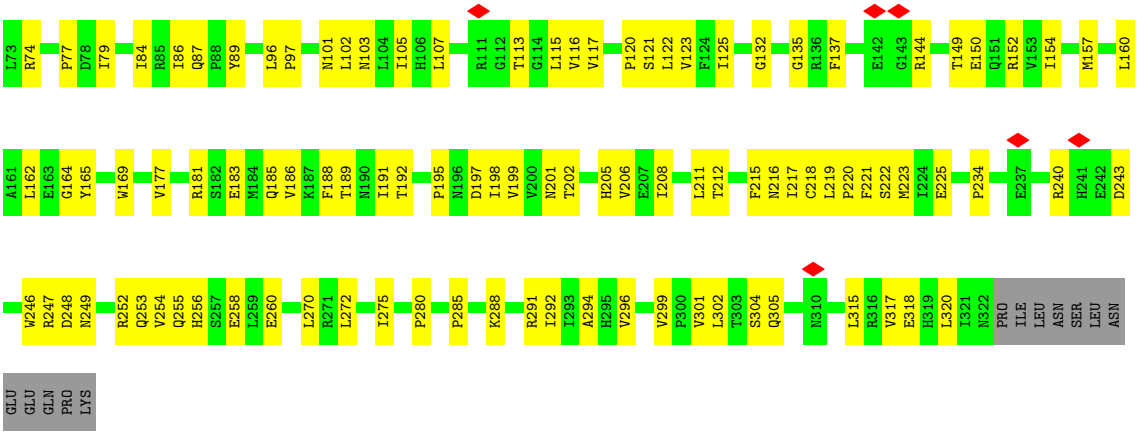

• Molecule 3: Flagellar motor switch protein FliM

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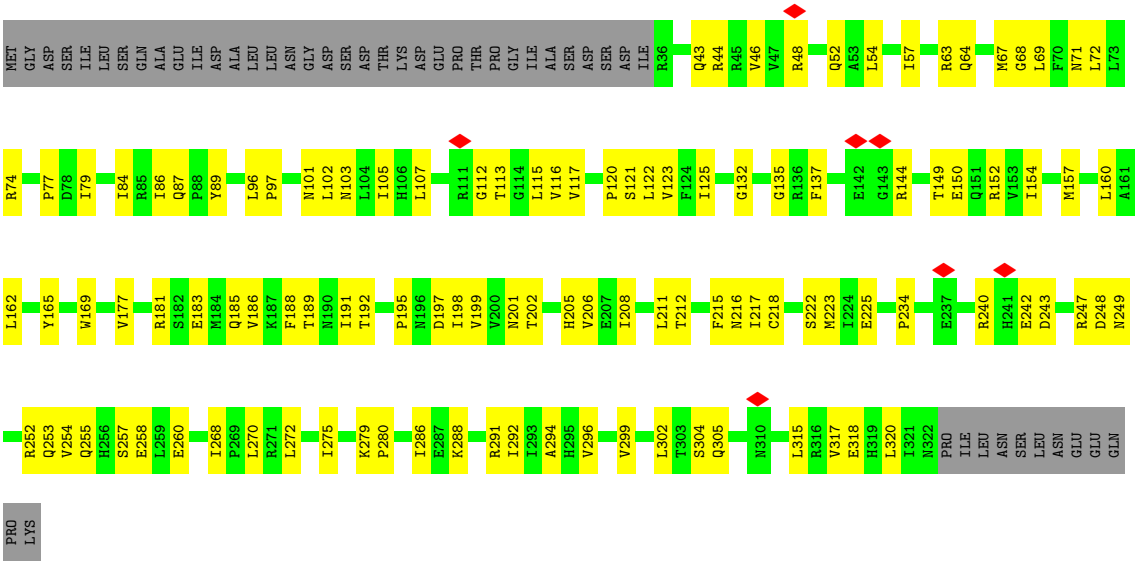

• Molecule 3: Flagellar motor switch protein FliM

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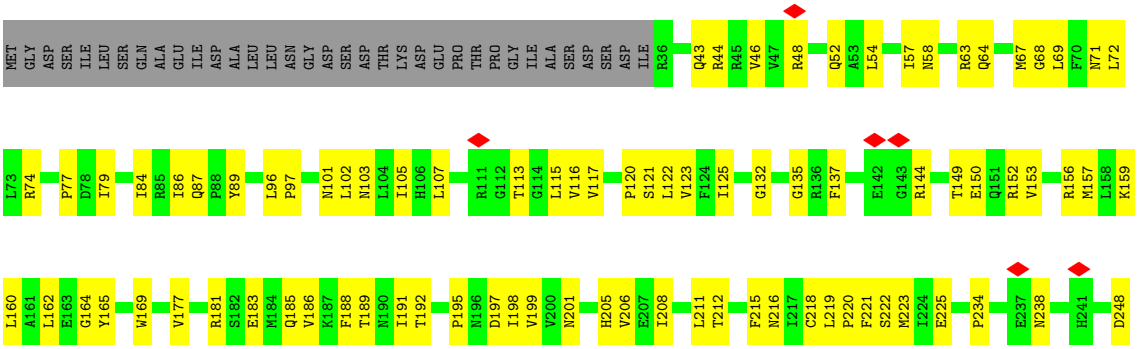
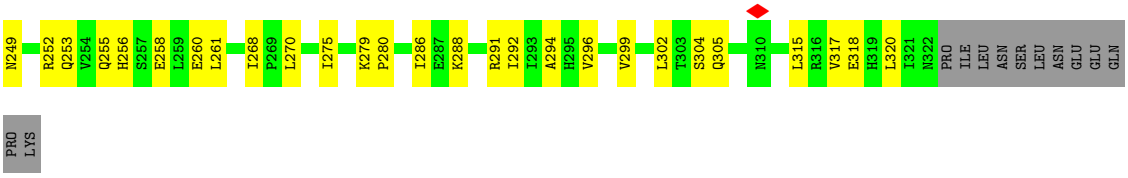
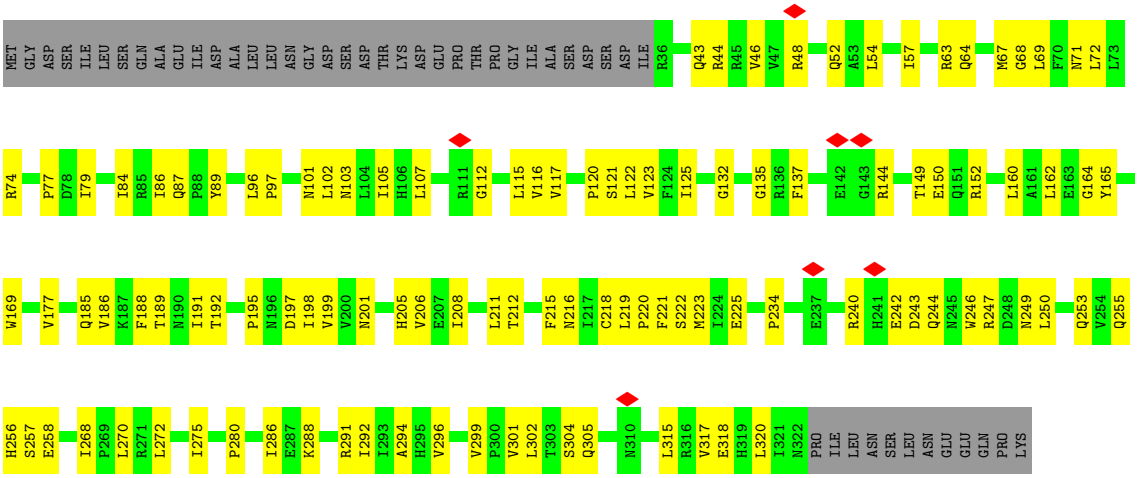




• Molecule 3: Flagellar motor switch protein FliM

Chain CF:

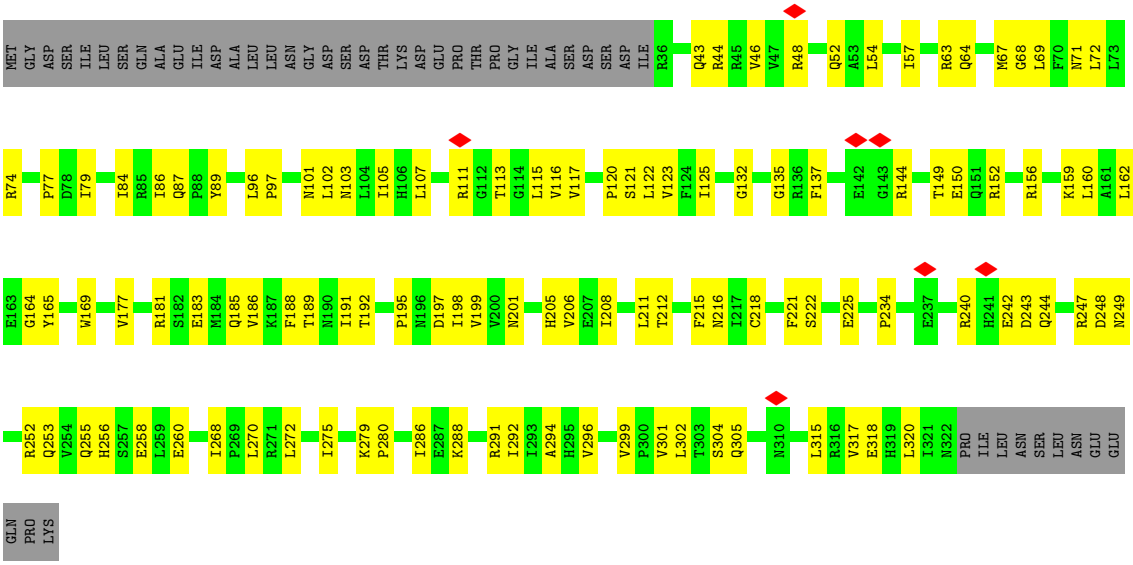


• Molecule 3: Flagellar motor switch protein FliM

Chain CG:

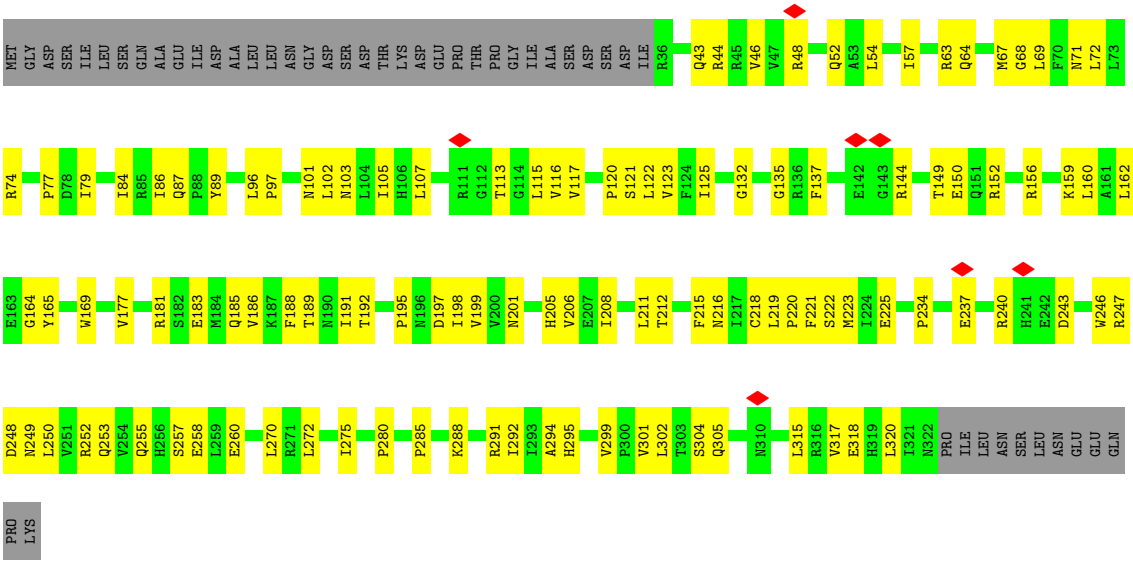
• Molecule 3: Flagellar motor switch protein FliM

Chain CH:



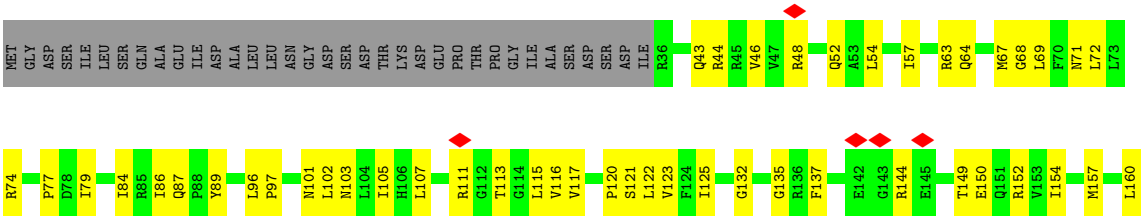
• Molecule 3: Flagellar motor switch protein FliM

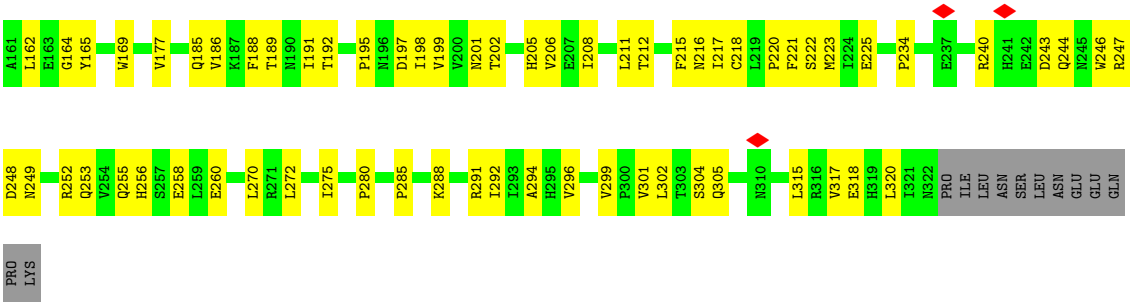
Chain CI:



• Molecule 3: Flagellar motor switch protein FliM

Chain CJ:





• Molecule 3: Flagellar motor switch protein FliM

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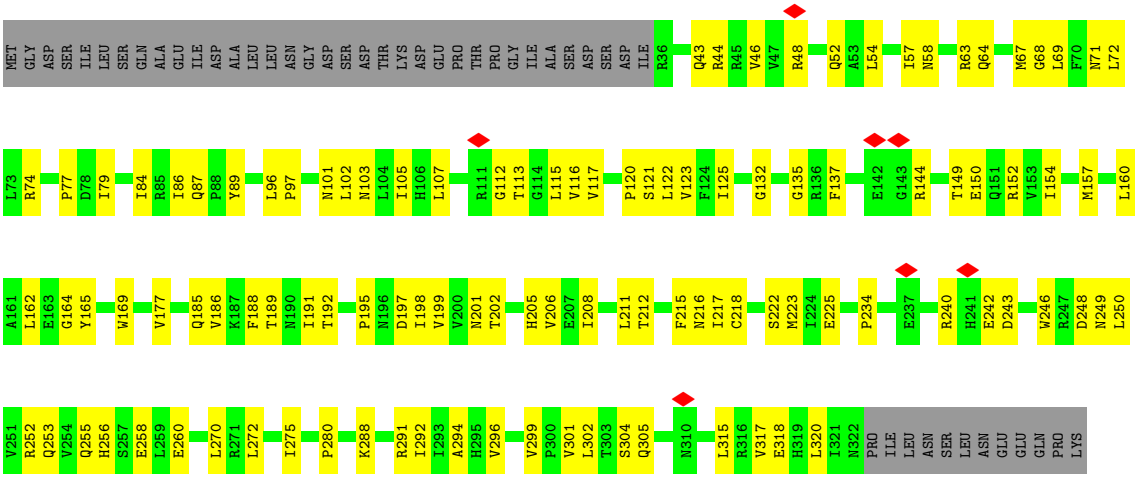

• Molecule 3: Flagellar motor switch protein FliM

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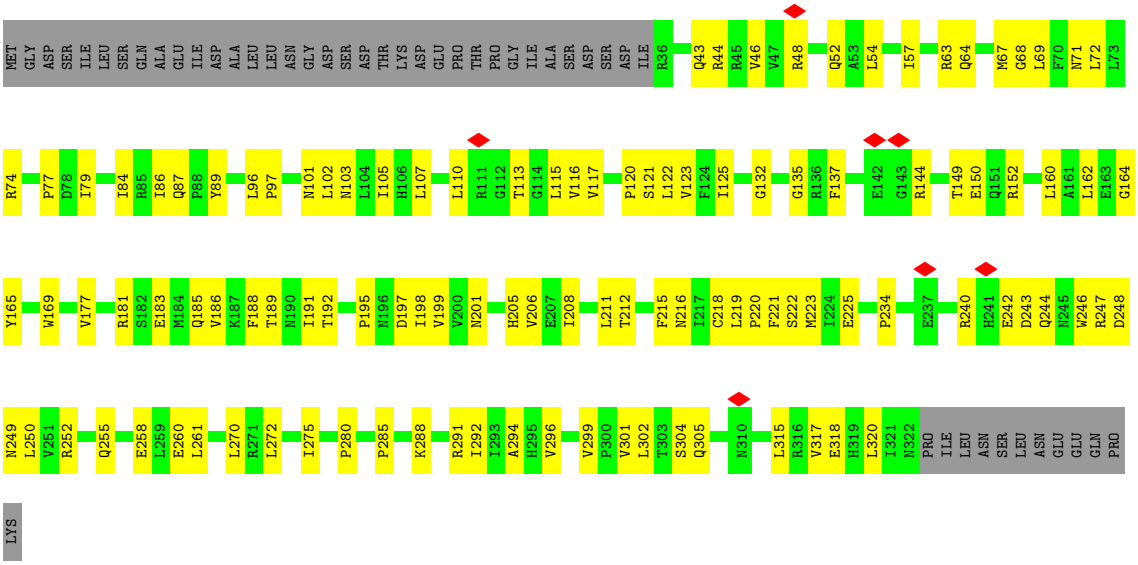
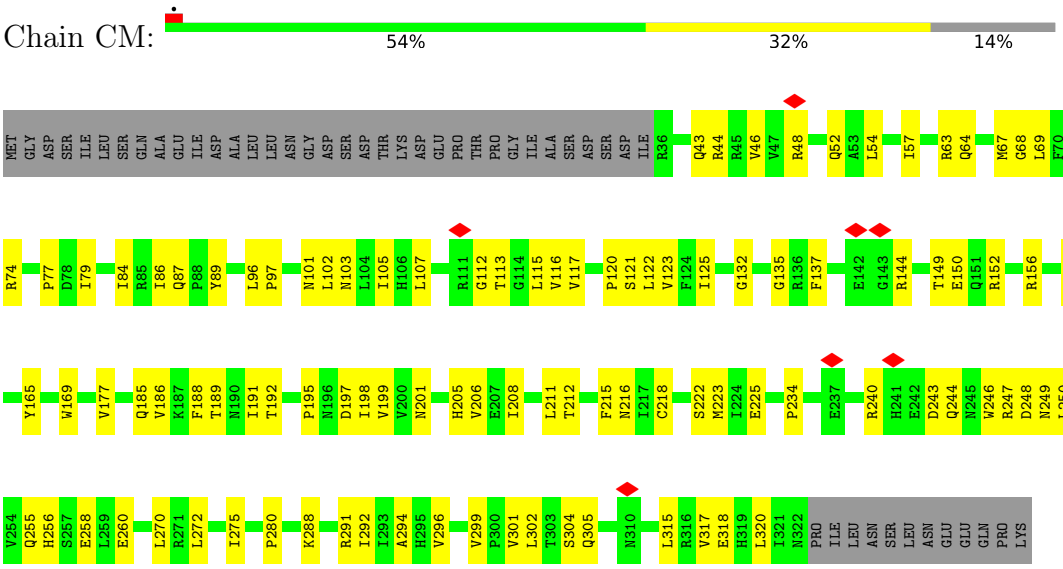


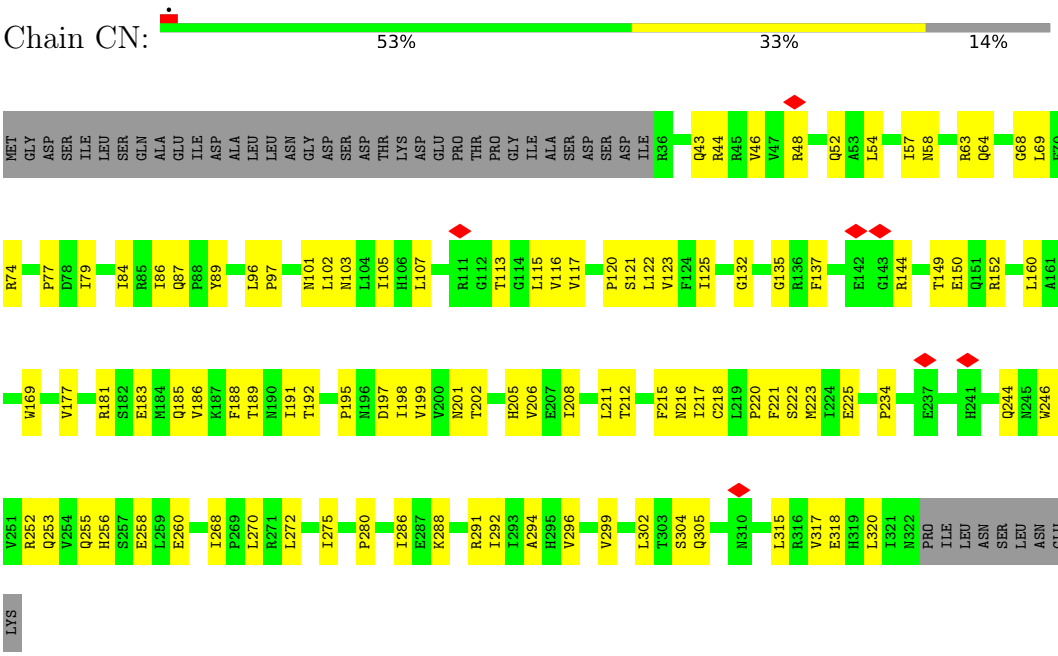
• Molecule 3: Flagellar motor switch protein FliM

Chain CM:



• Molecule 3: Flagellar motor switch protein FliM

Chain CN:



• Molecule 3: Flagellar motor switch protein FliM

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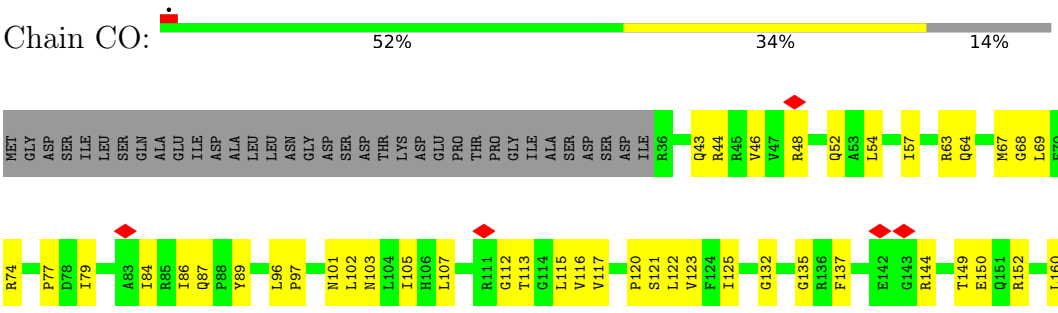

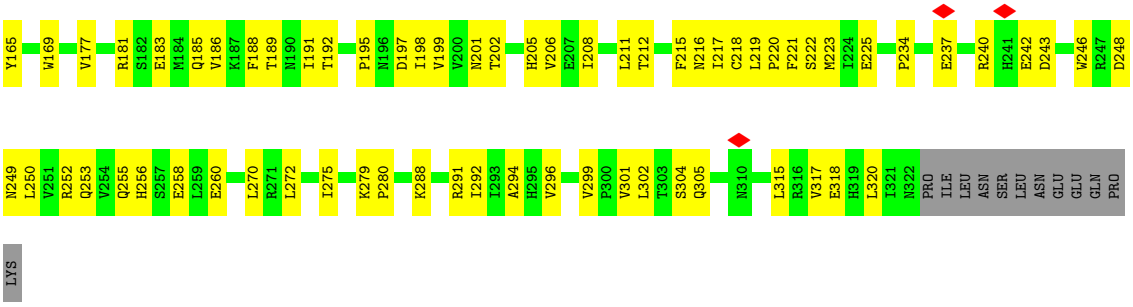

• Molecule 3: Flagellar motor switch protein FliM

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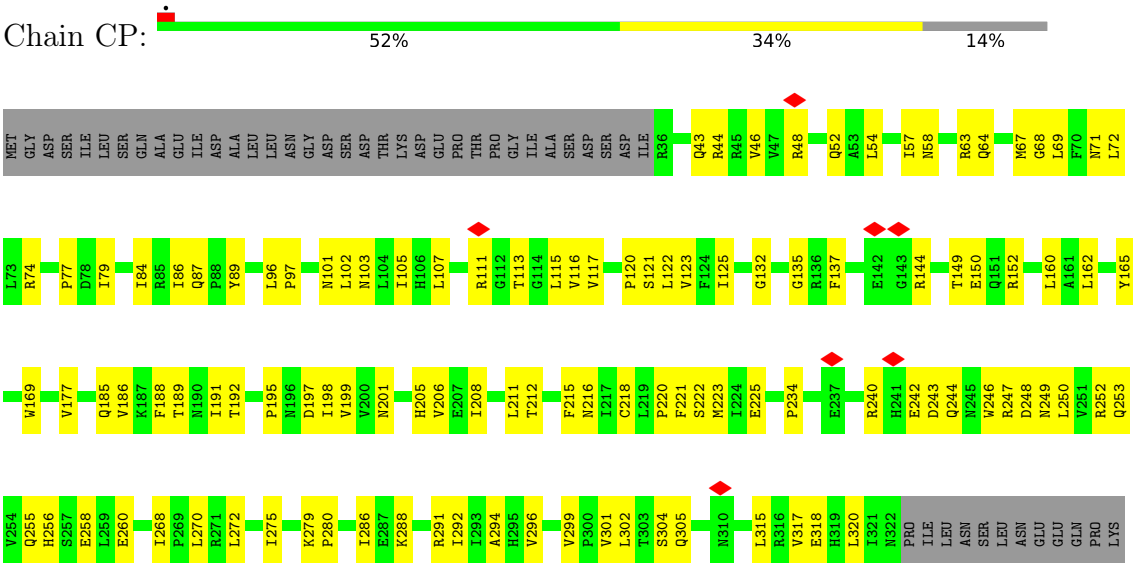

• Molecule 3: Flagellar motor switch protein FliM

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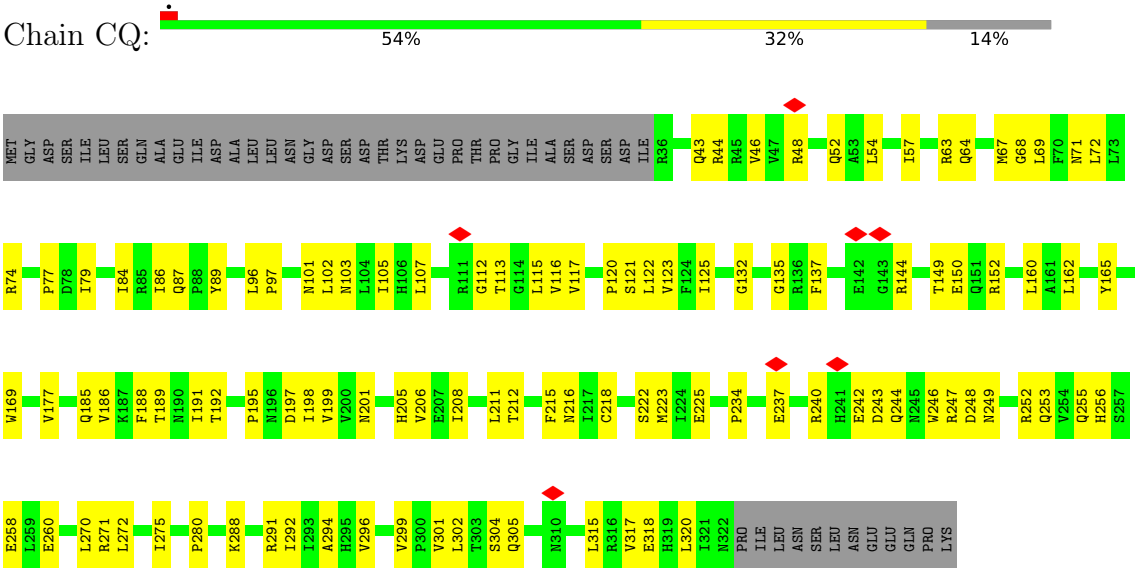

• Molecule 3: Flagellar motor switch protein FliM

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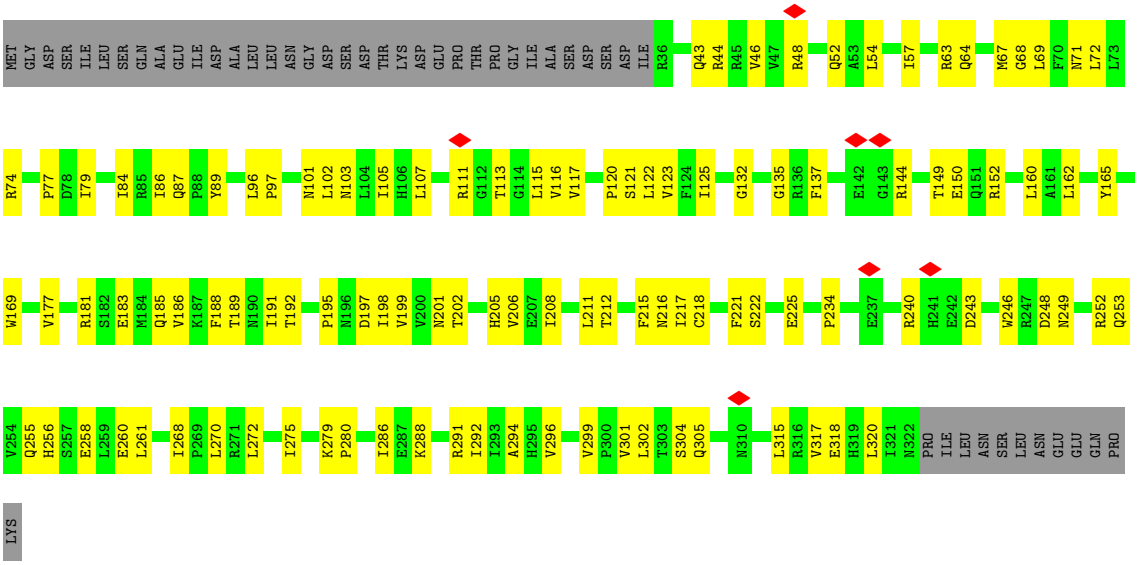

• Molecule 3: Flagellar motor switch protein FliM

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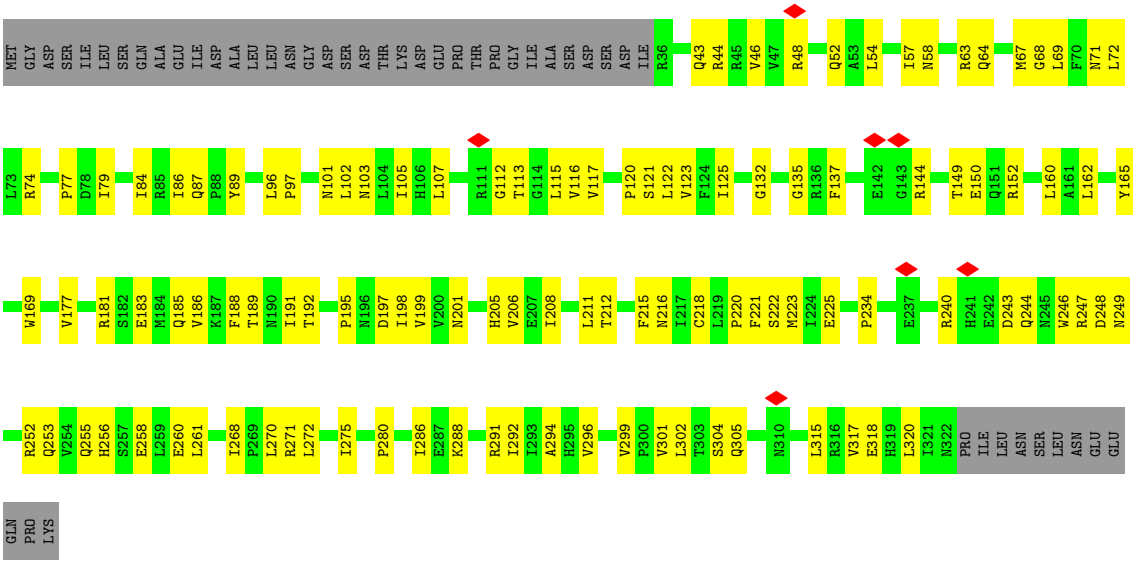

• Molecule 3: Flagellar motor switch protein FliM

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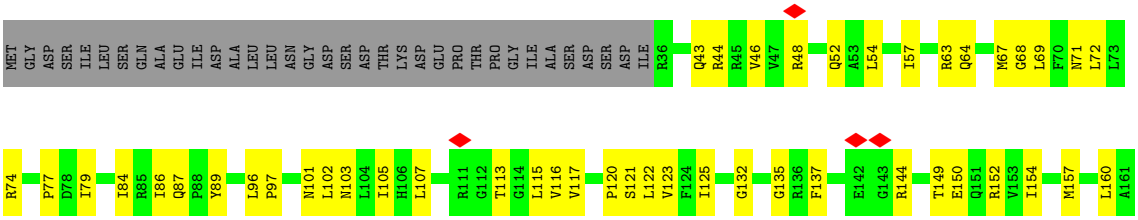

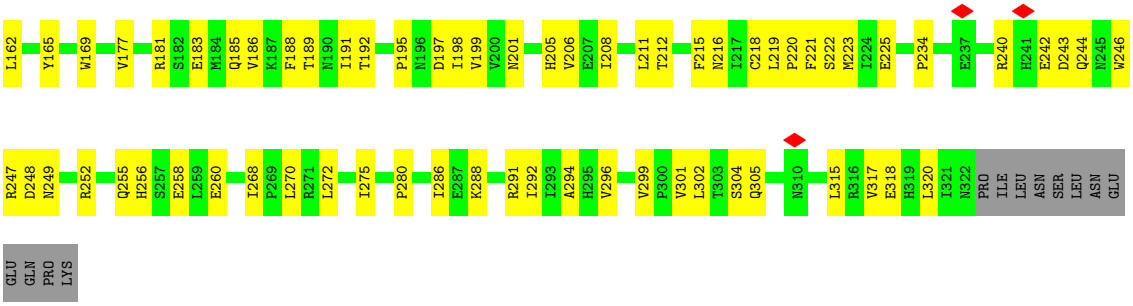

• Molecule 3: Flagellar motor switch protein FliM

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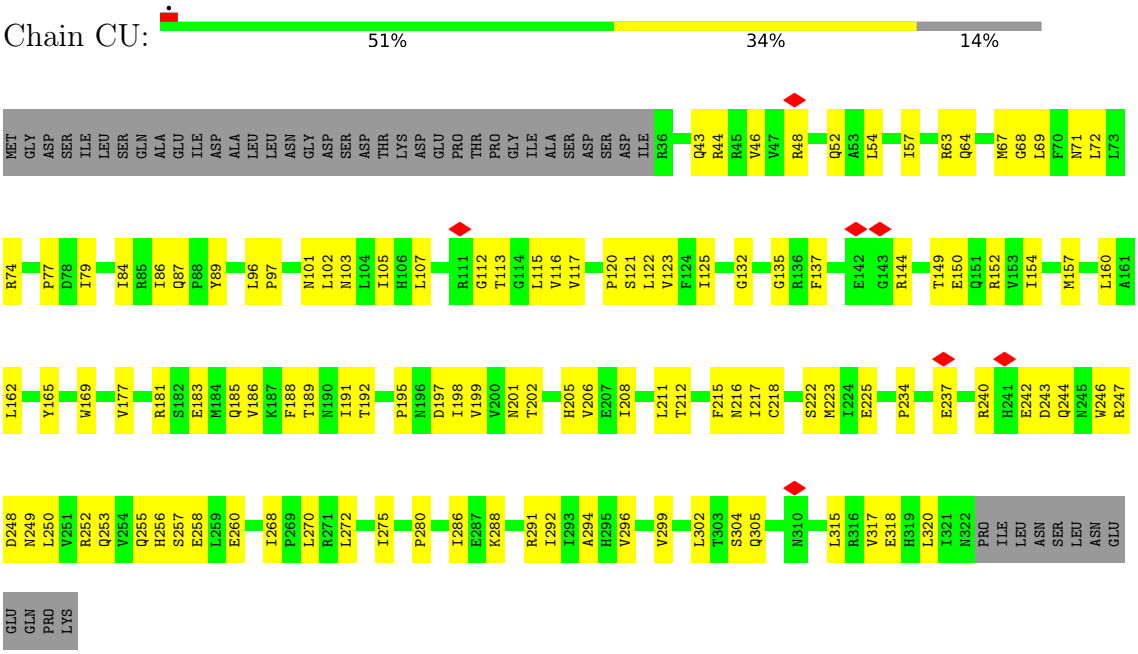
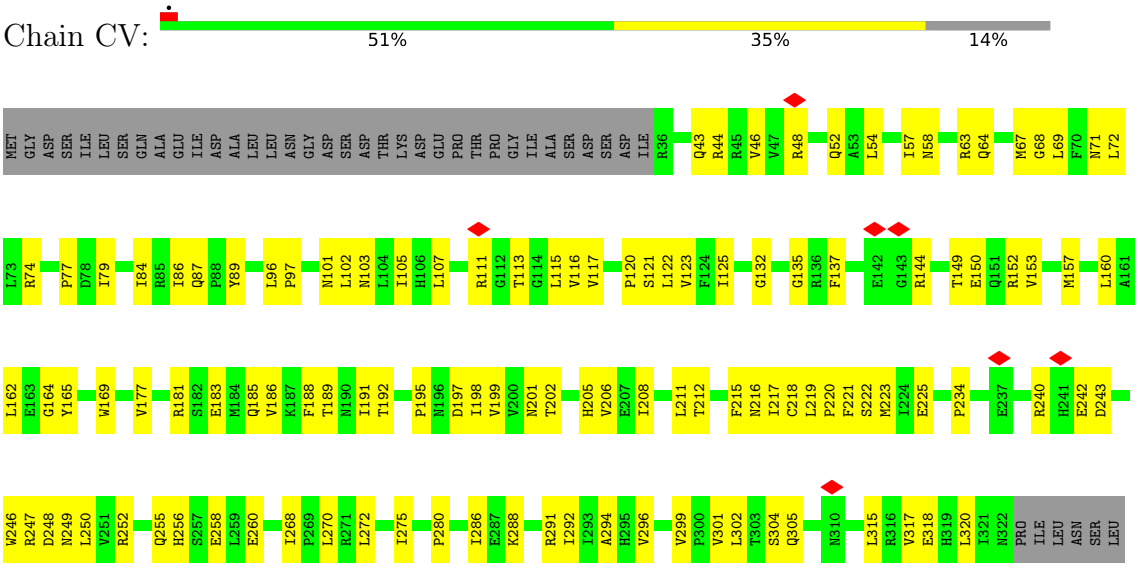


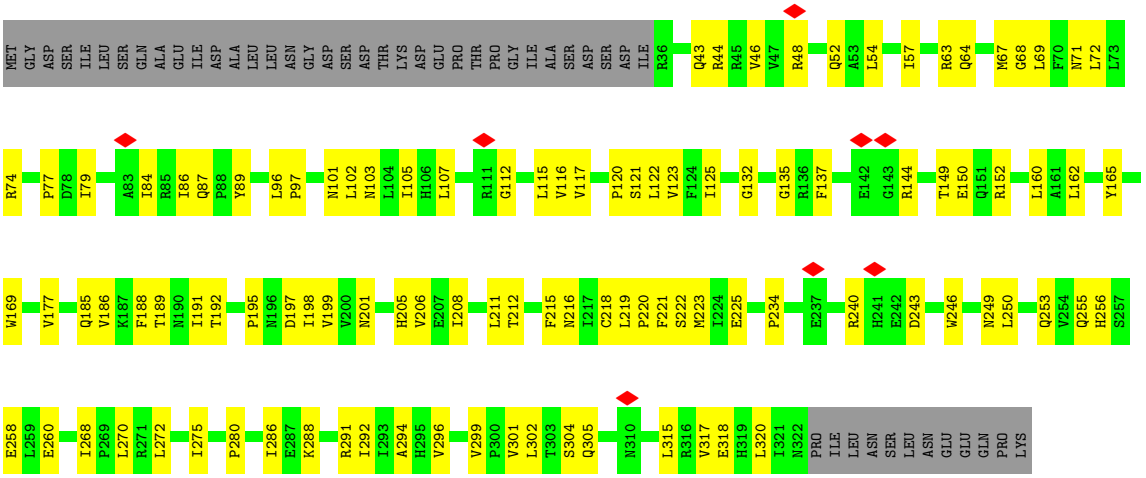
• Molecule 3: Flagellar motor switch protein FliM

Chain CV:



• Molecule 3: Flagellar motor switch protein FliM

Chain CW:



• Molecule 3: Flagellar motor switch protein FliM

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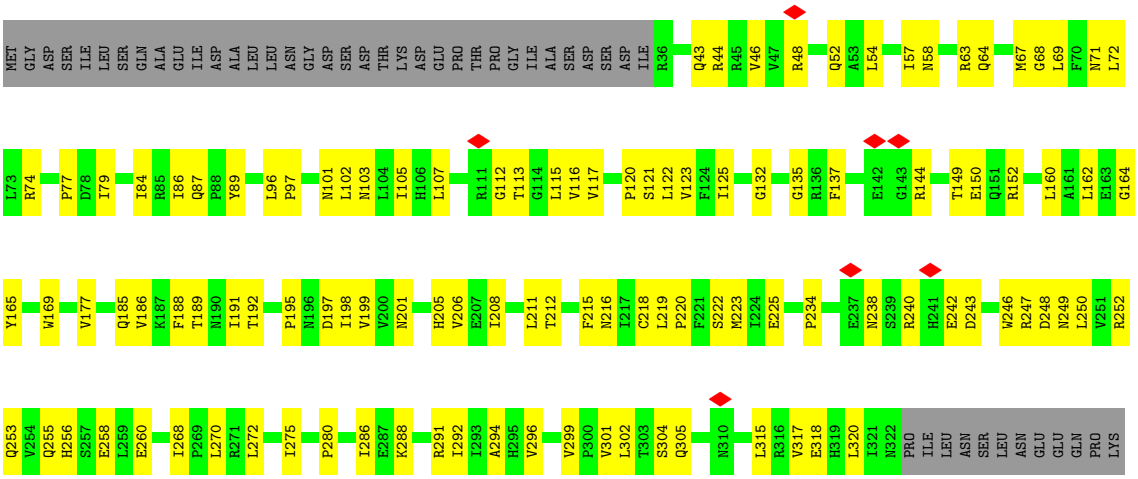

• Molecule 3: Flagellar motor switch protein FliM

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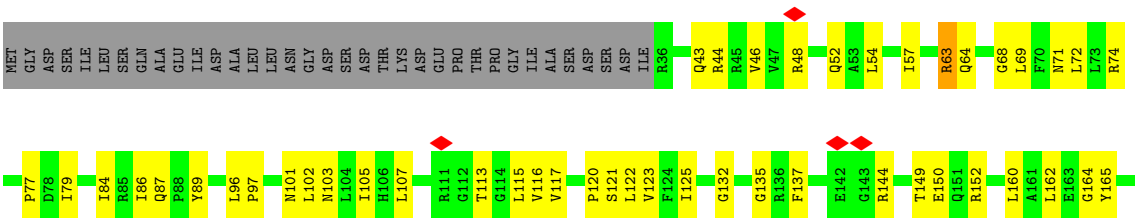
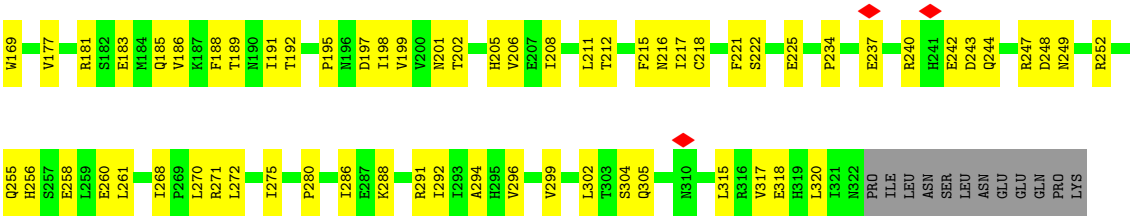
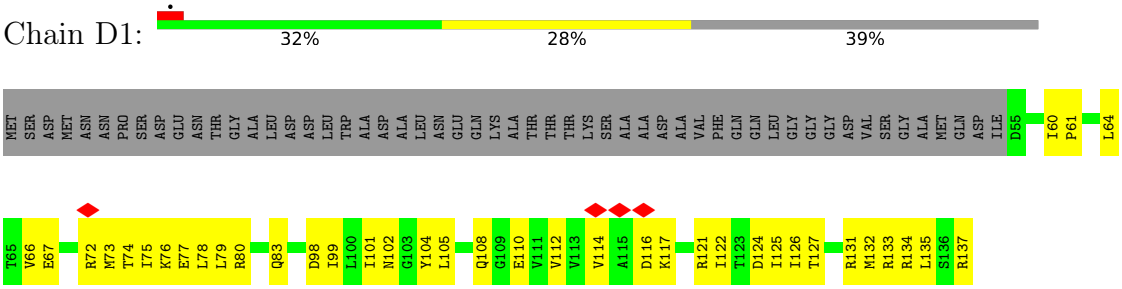
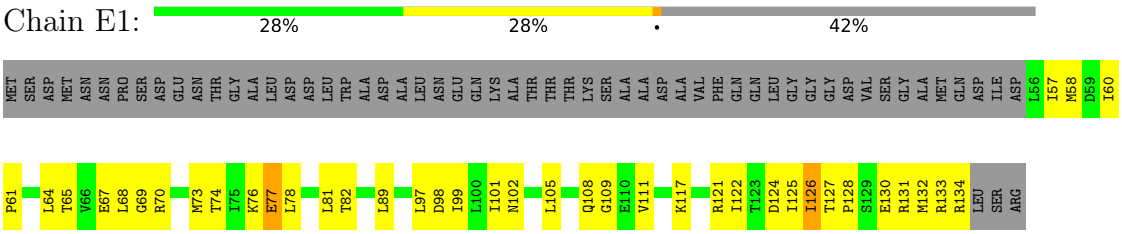




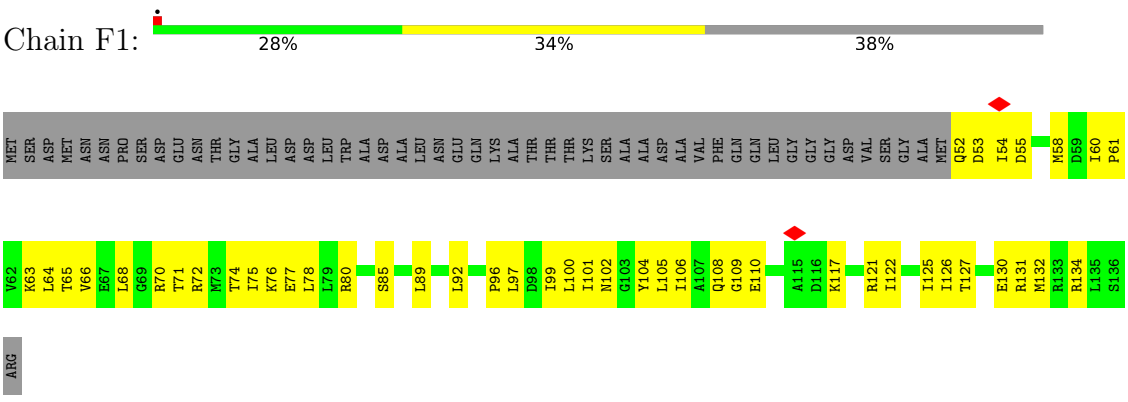
• Molecule 4: Flagellar motor switch protein FliN



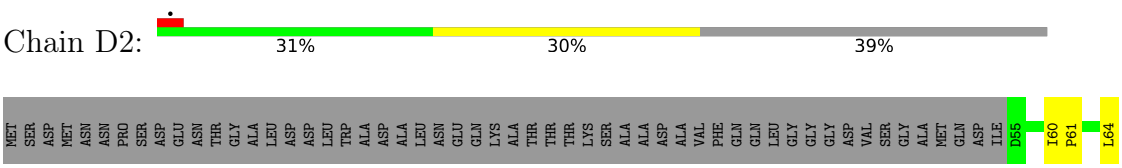
• Molecule 4: Flagellar motor switch protein FliN

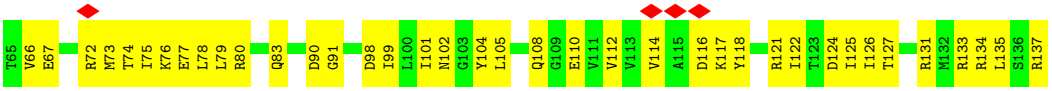


• Molecule 4: Flagellar motor switch protein FliN



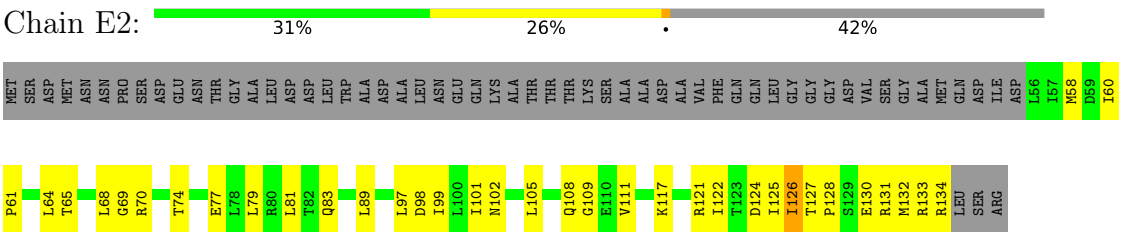
• Molecule 4: Flagellar motor switch protein FliN





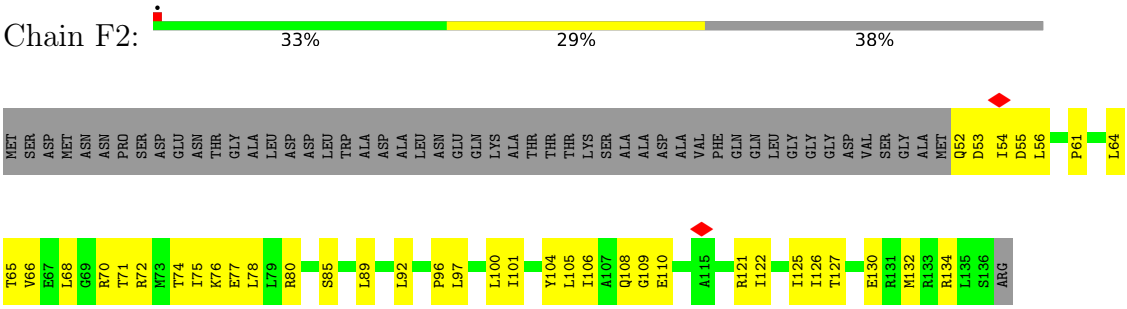
• Molecule 4: Flagellar motor switch protein FliN

Chain E2:



• Molecule 4: Flagellar motor switch protein FliN

Chain F2:



• Molecule 4: Flagellar motor switch protein FliN

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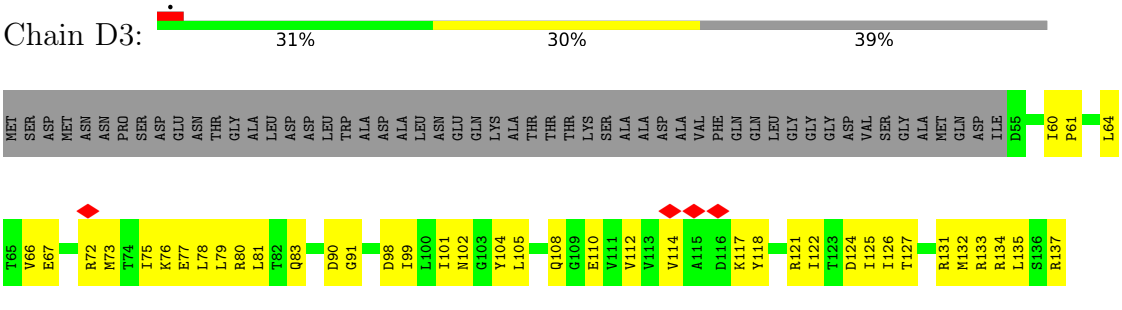

• Molecule 4: Flagellar motor switch protein FliN

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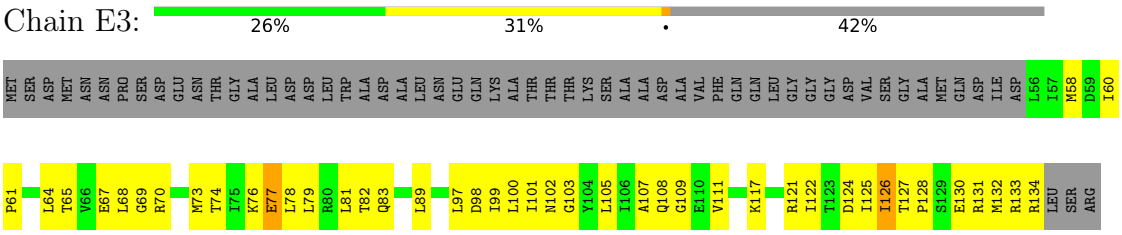

• Molecule 4: Flagellar motor switch protein FliN

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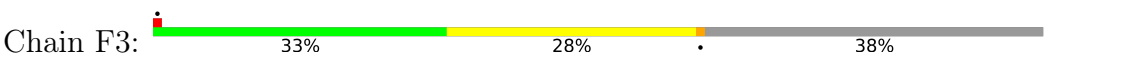

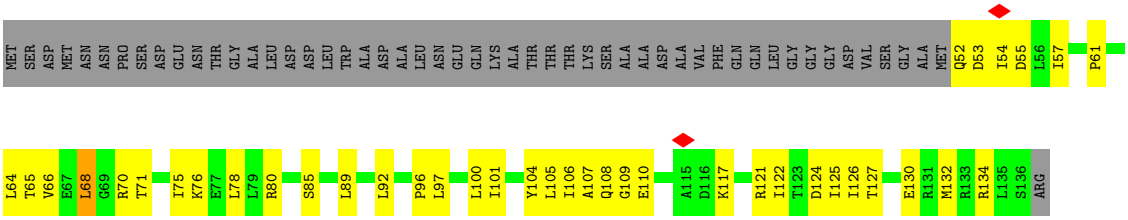

• Molecule 4: Flagellar motor switch protein FliN

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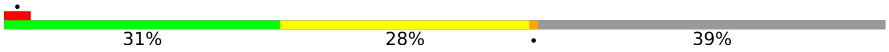
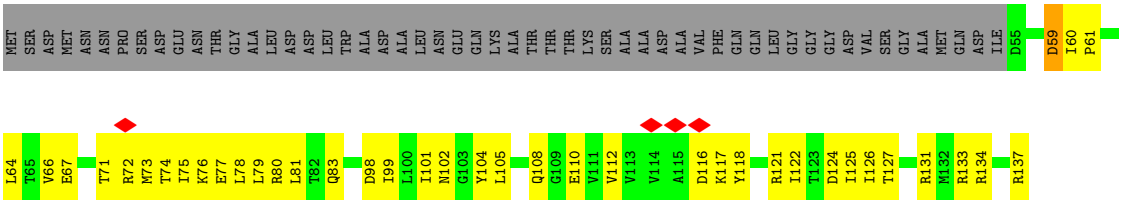
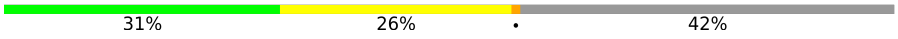
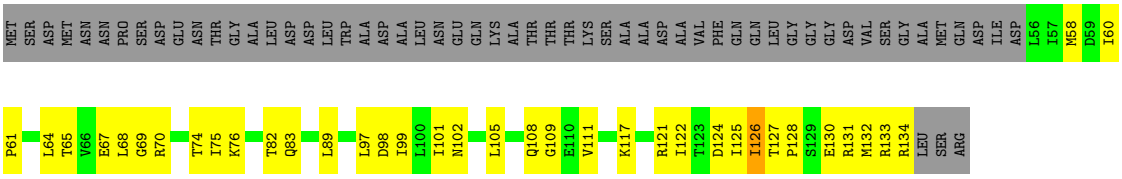




• Molecule 4: Flagellar motor switch protein FliN

Chain E4:





• Molecule 4: Flagellar motor switch protein FliN

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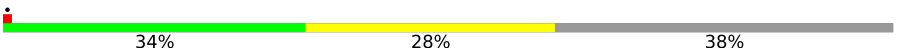
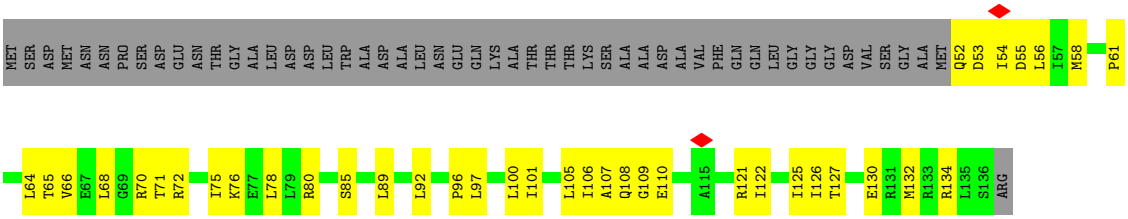
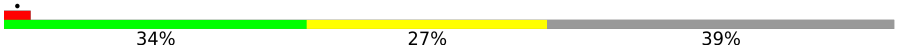
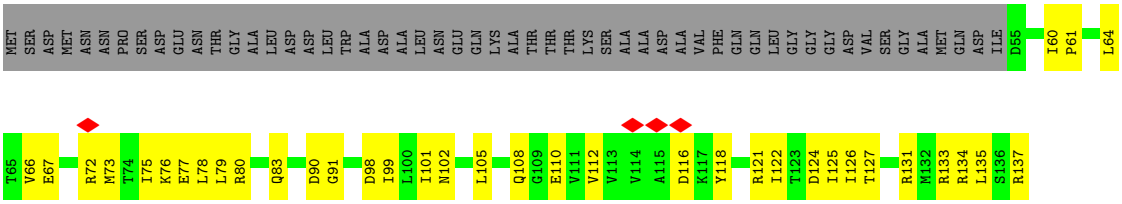




• Molecule 4: Flagellar motor switch protein FliN

Chain D5:





• Molecule 4: Flagellar motor switch protein FliN

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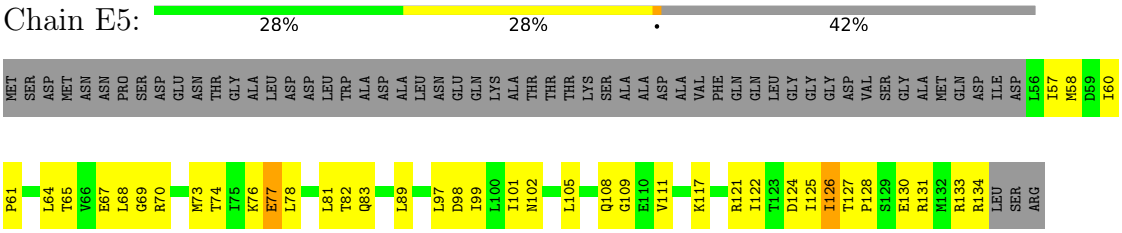

• Molecule 4: Flagellar motor switch protein FliN

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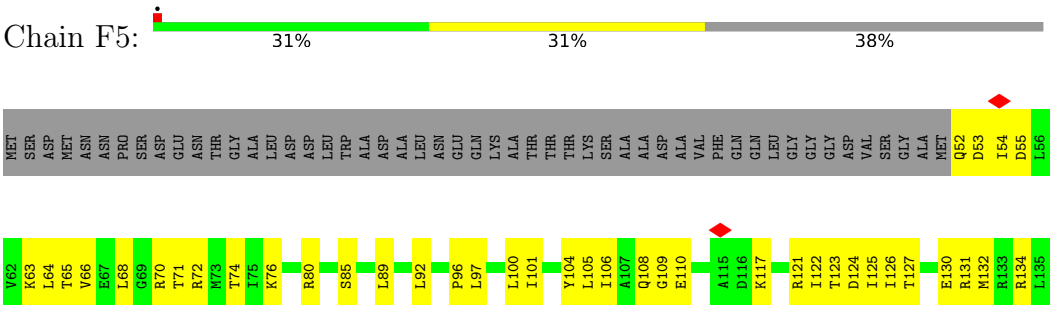

• Molecule 4: Flagellar motor switch protein FliN

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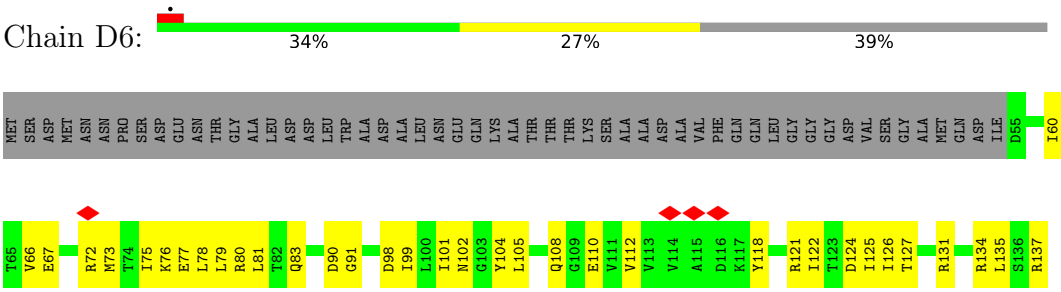

• Molecule 4: Flagellar motor switch protein FliN

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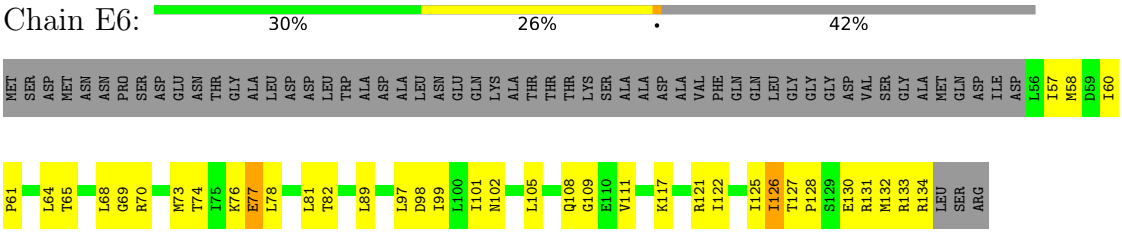

• Molecule 4: Flagellar motor switch protein FliN

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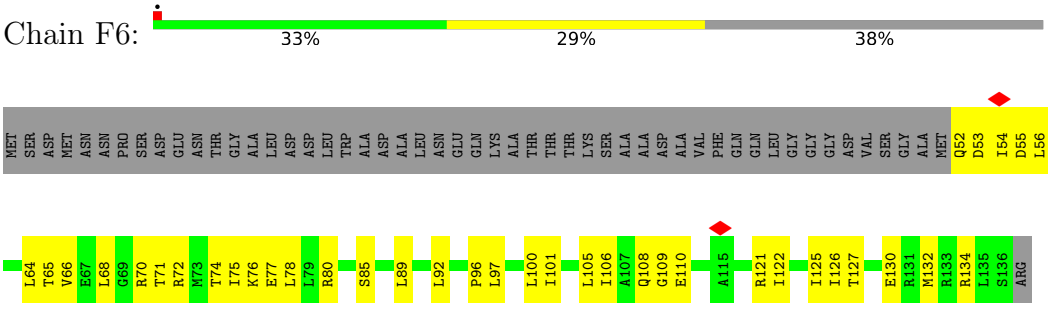

• Molecule 4: Flagellar motor switch protein FliN

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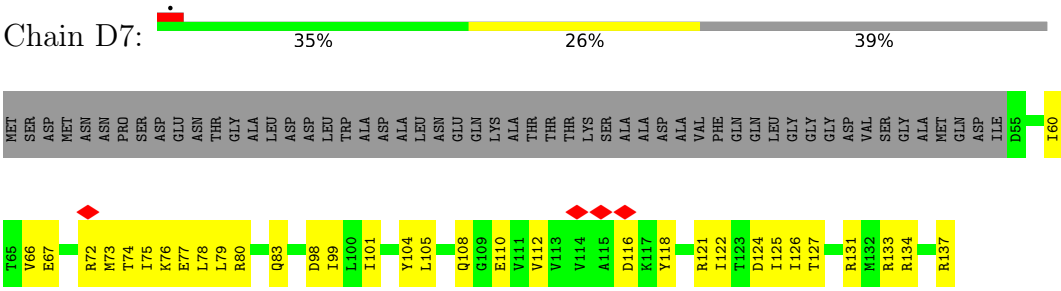

• Molecule 4: Flagellar motor switch protein FliN

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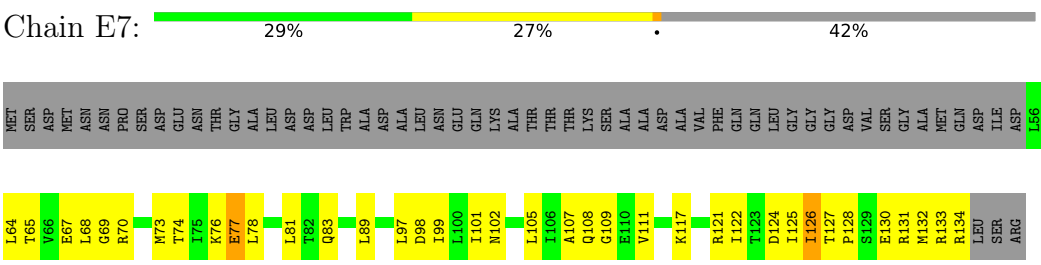

• Molecule 4: Flagellar motor switch protein FliN

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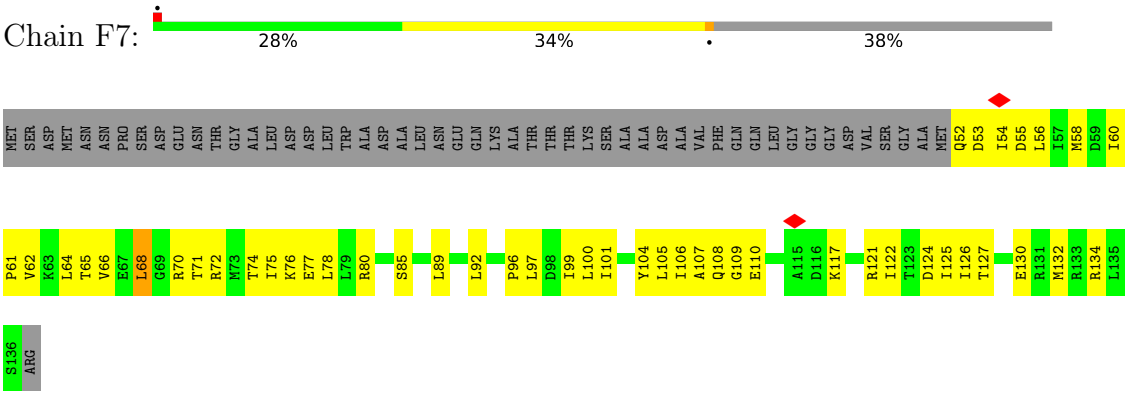

• Molecule 4: Flagellar motor switch protein FliN

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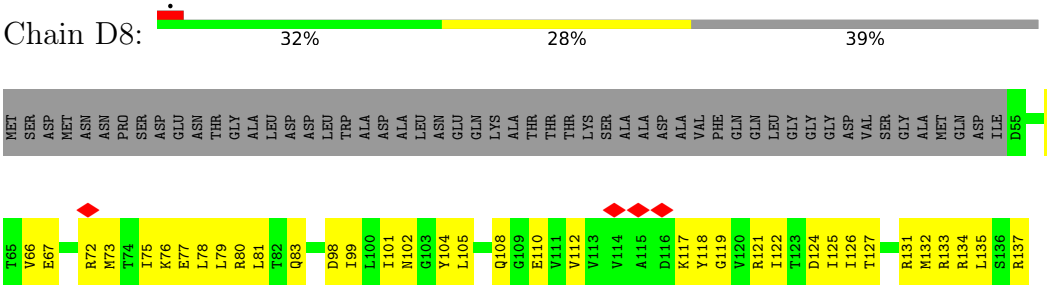

• Molecule 4: Flagellar motor switch protein FliN

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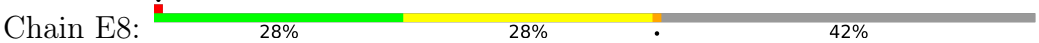

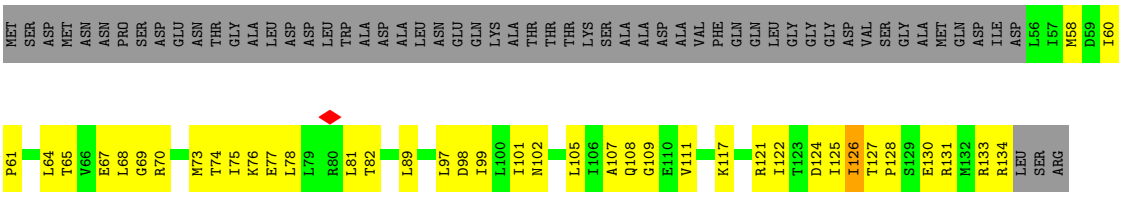

• Molecule 4: Flagellar motor switch protein FliN

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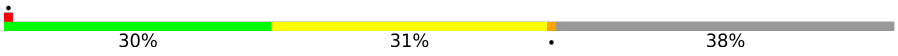

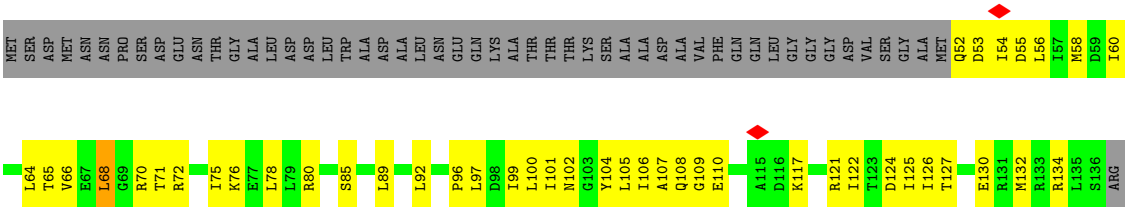

• Molecule 4: Flagellar motor switch protein FliN

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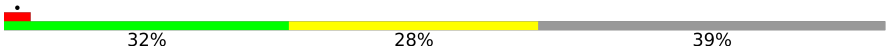
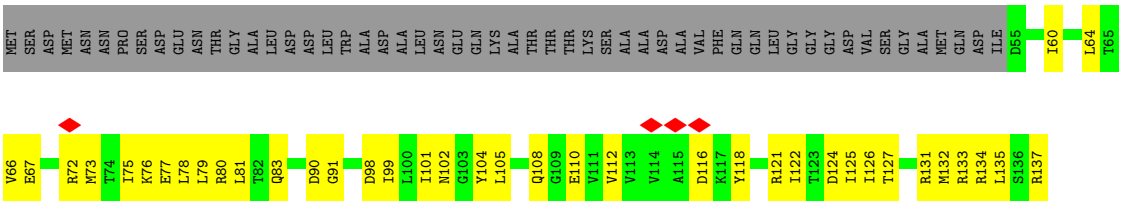
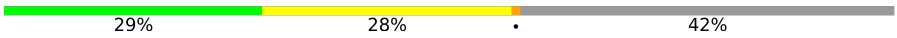
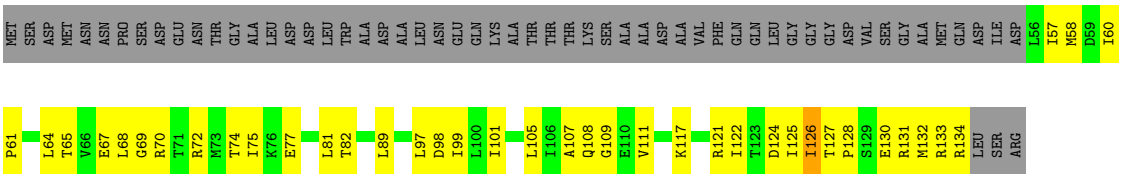




• Molecule 4: Flagellar motor switch protein FliN

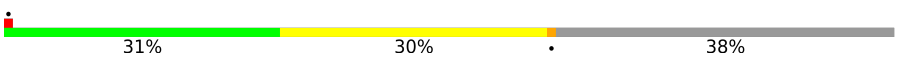
Chain E9:

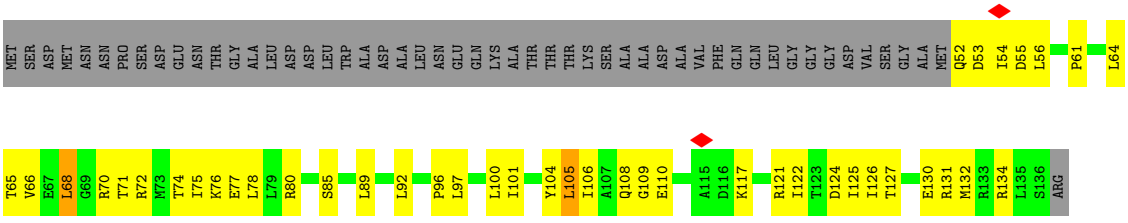




• Molecule 4: Flagellar motor switch protein FliN

Chain F9:





• Molecule 4: Flagellar motor switch protein FliN

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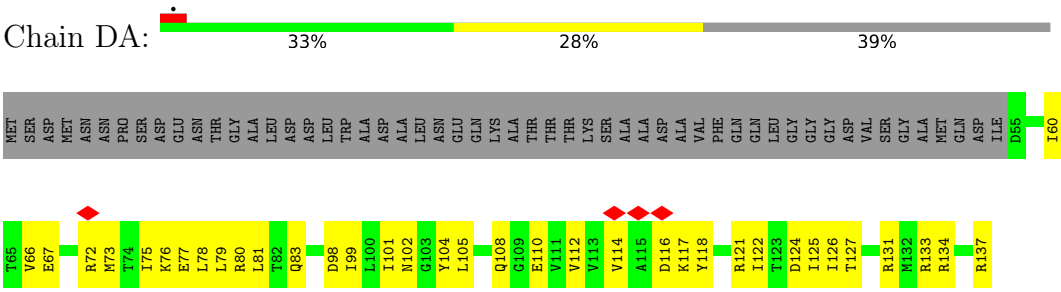

• Molecule 4: Flagellar motor switch protein FliN

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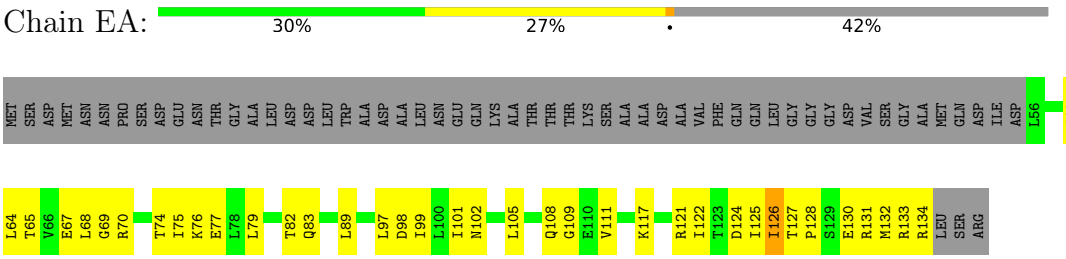

• Molecule 4: Flagellar motor switch protein FliN

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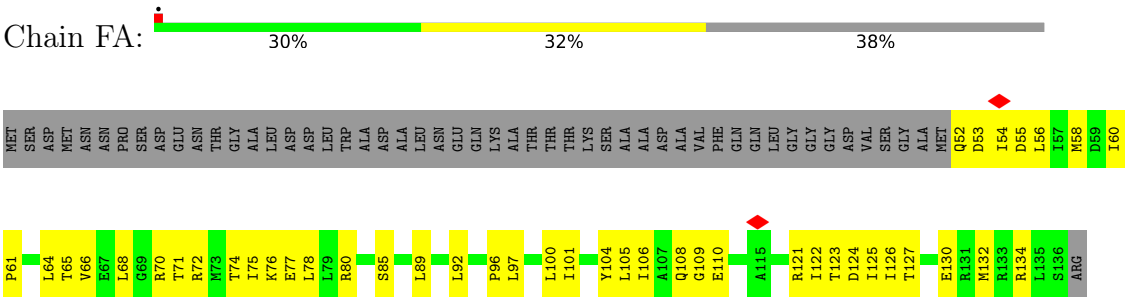

• Molecule 4: Flagellar motor switch protein FliN

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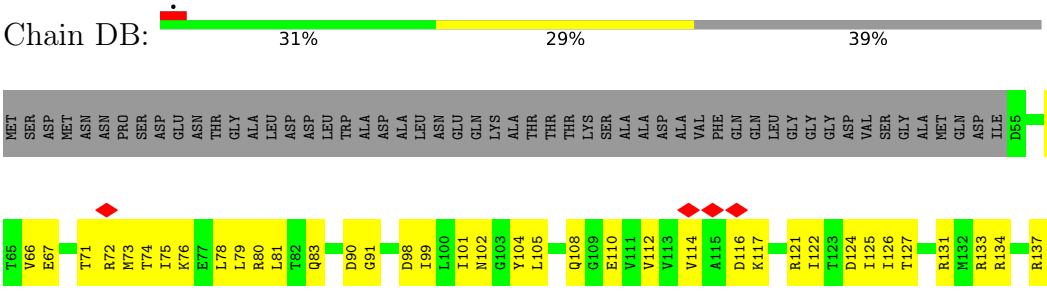

• Molecule 4: Flagellar motor switch protein FliN

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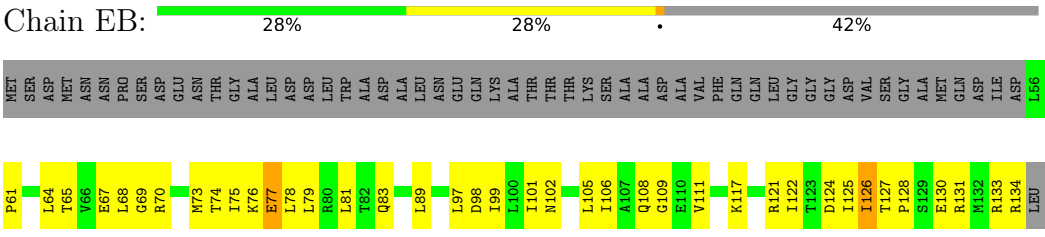

• Molecule 4: Flagellar motor switch protein FliN

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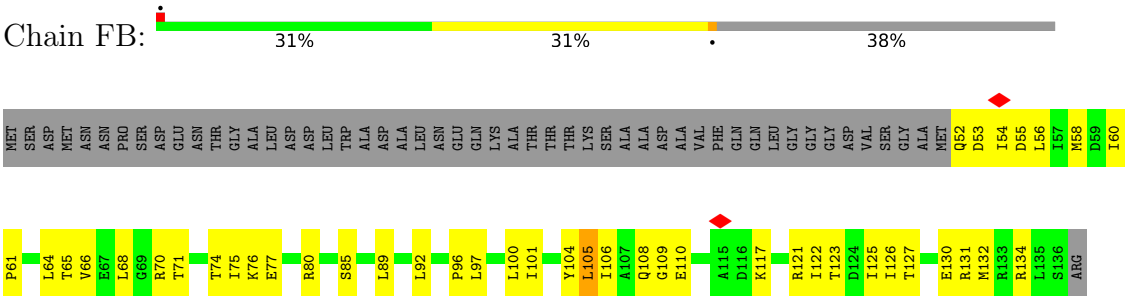

• Molecule 4: Flagellar motor switch protein FliN

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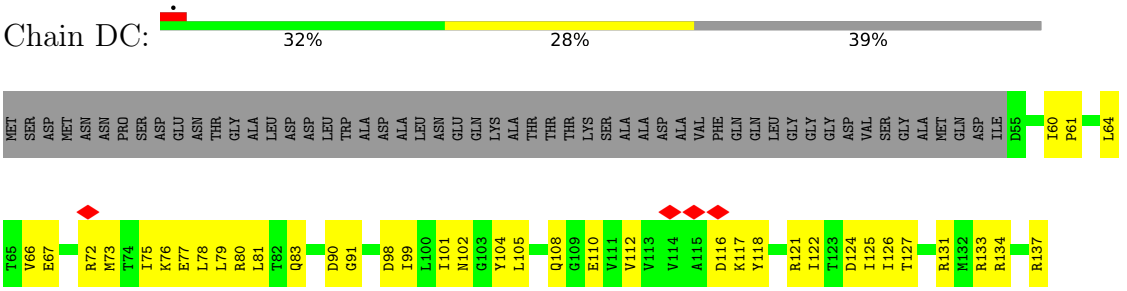

• Molecule 4: Flagellar motor switch protein FliN

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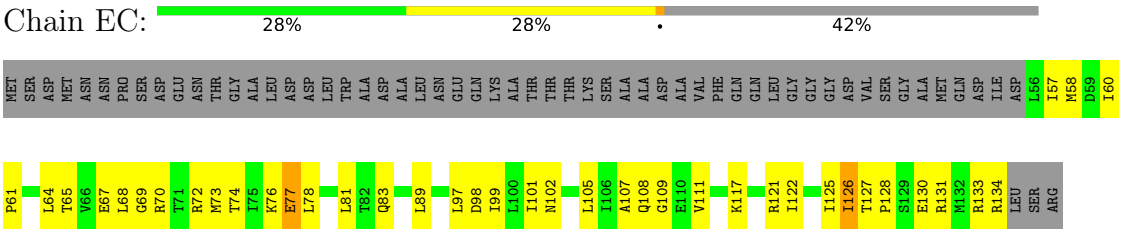

• Molecule 4: Flagellar motor switch protein FliN

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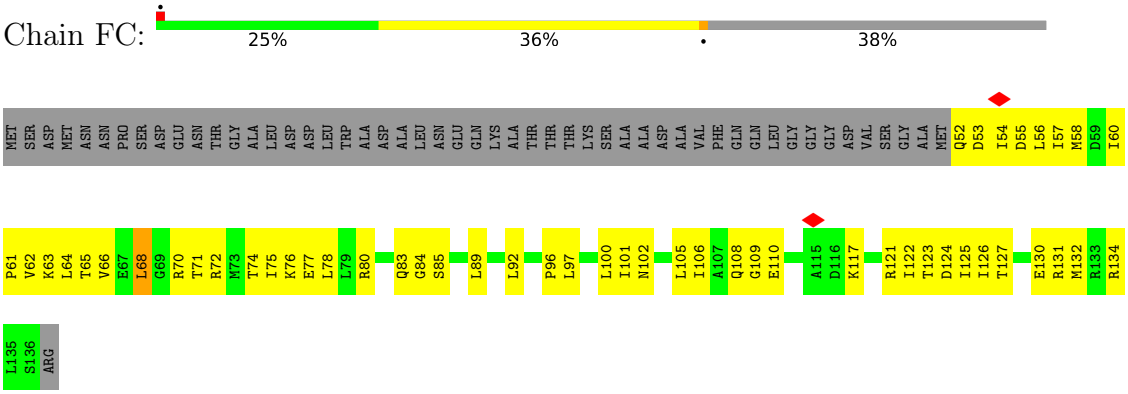

• Molecule 4: Flagellar motor switch protein FliN

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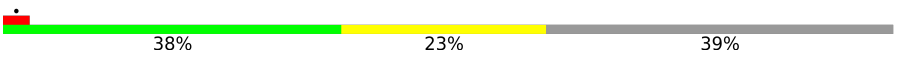
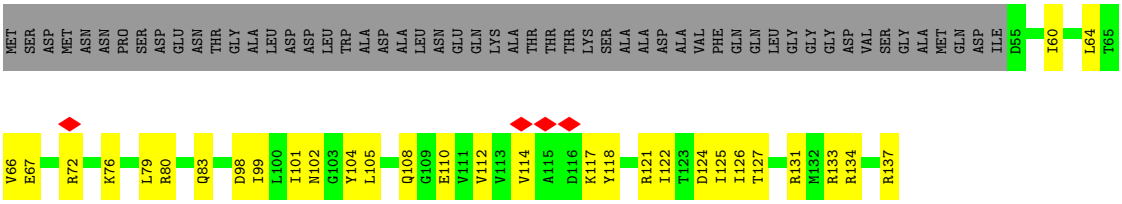
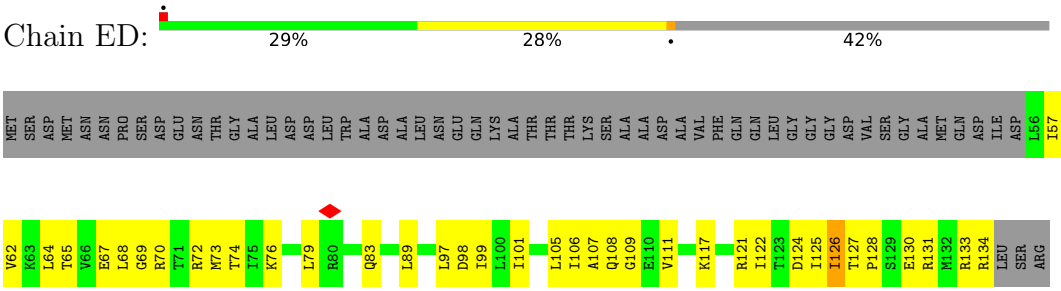
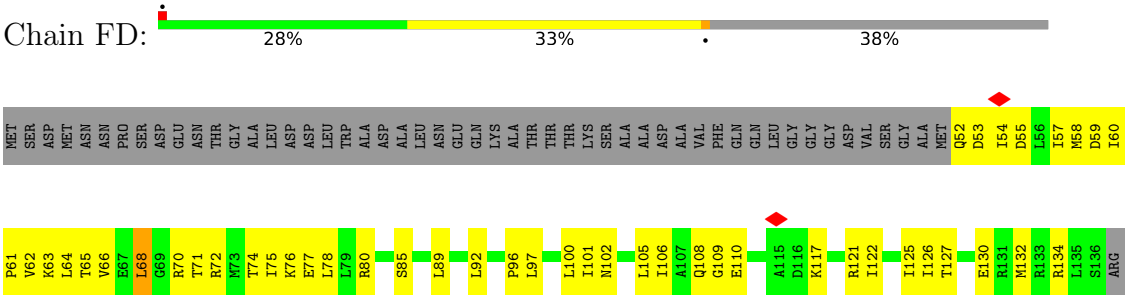




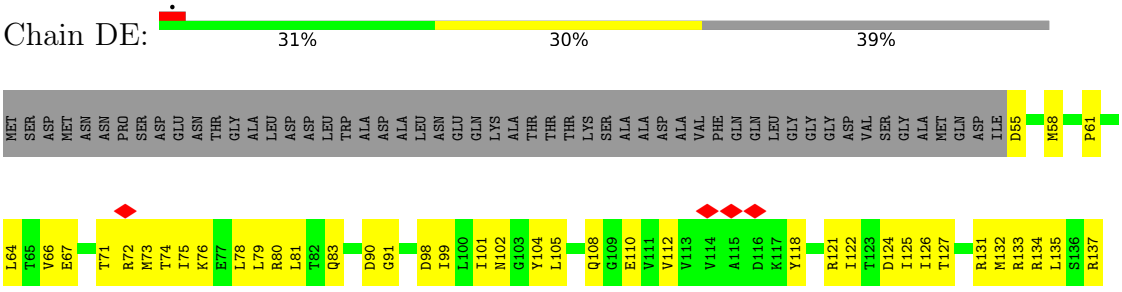
• Molecule 4: Flagellar motor switch protein FliN



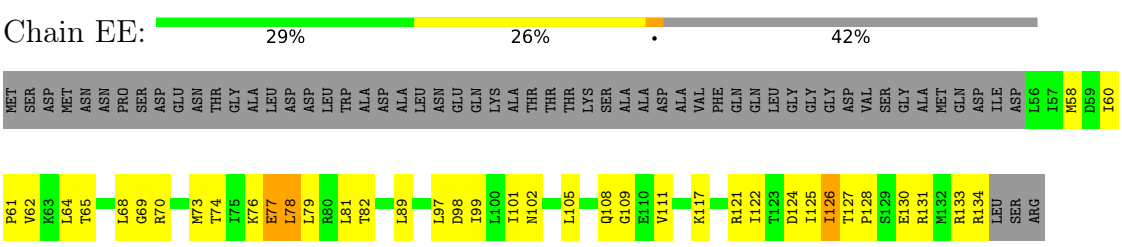
• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN

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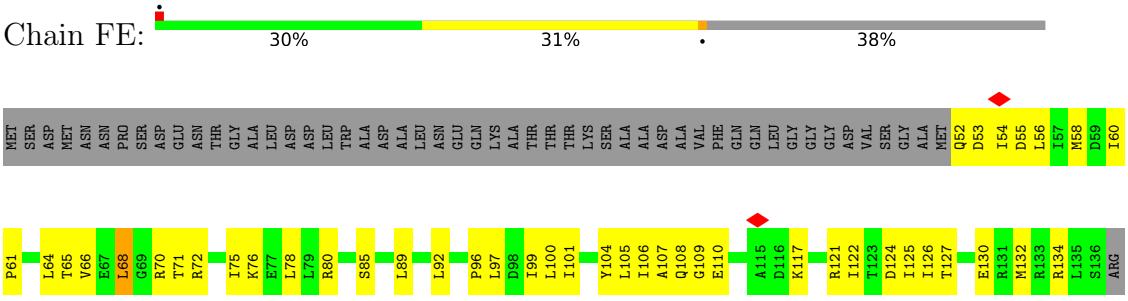
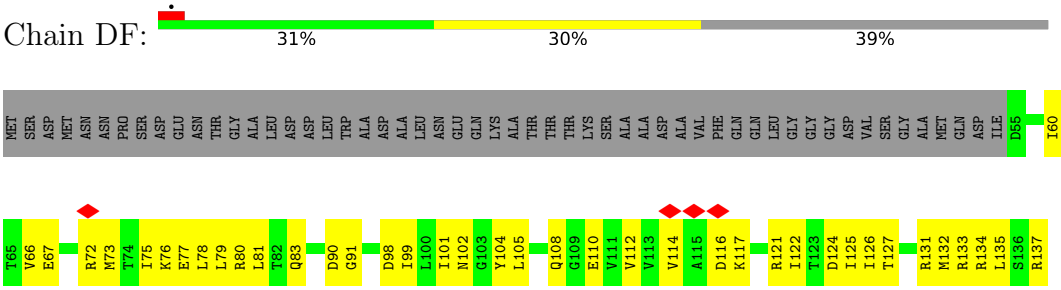


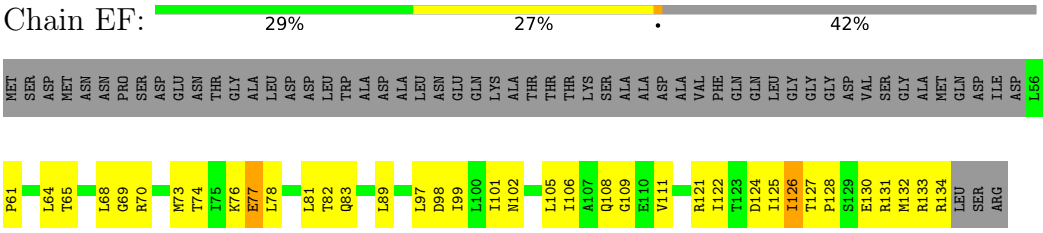
• Molecule 4: Flagellar motor switch protein FliN

Chain DF:



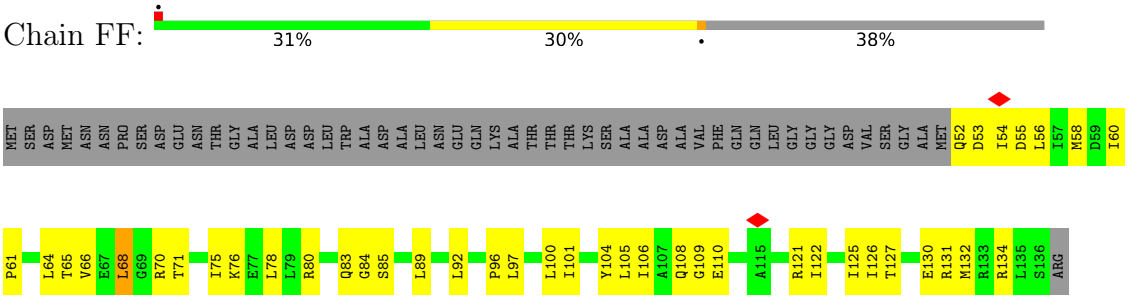
• Molecule 4: Flagellar motor switch protein FliN

Chain EF:



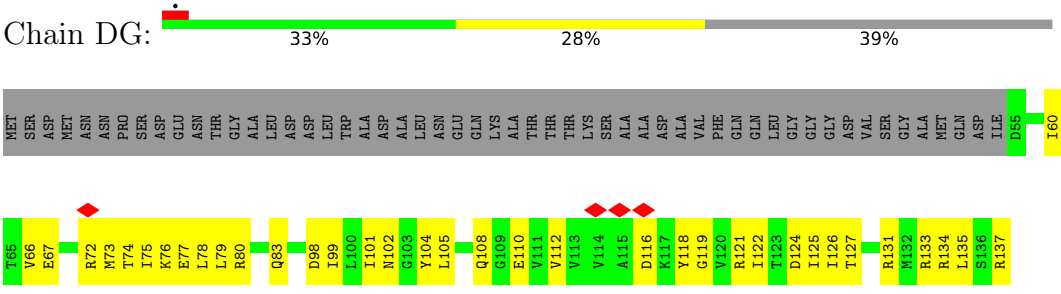
• Molecule 4: Flagellar motor switch protein FliN

Chain FF:



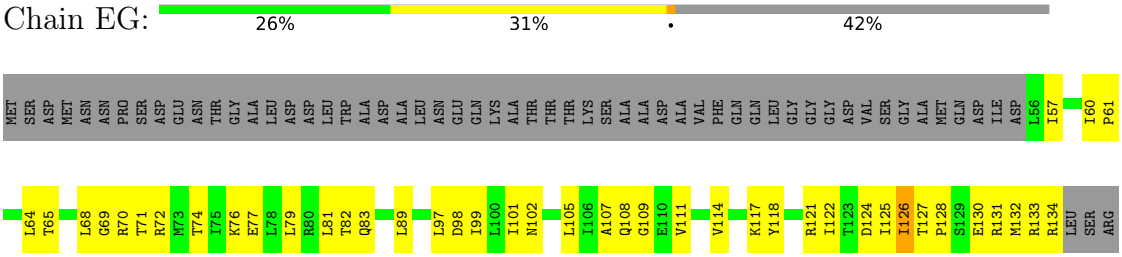
• Molecule 4: Flagellar motor switch protein FliN

Chain DG:



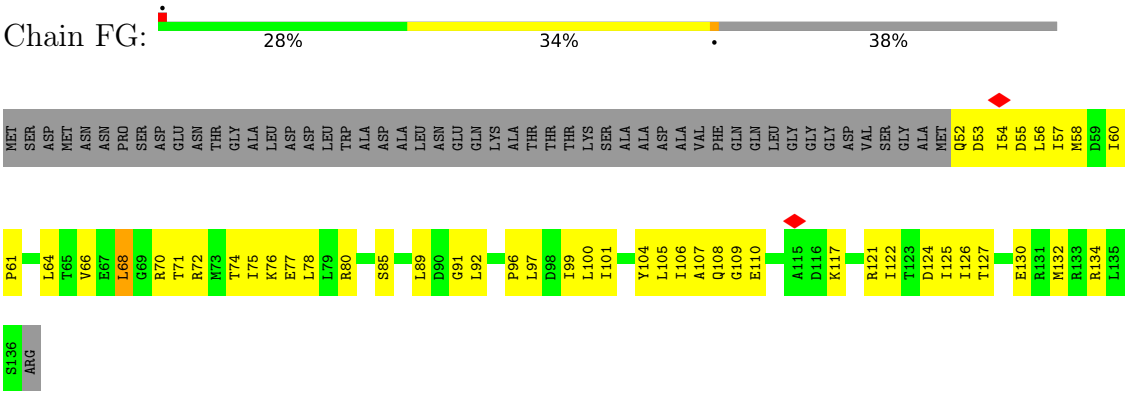
• Molecule 4: Flagellar motor switch protein FliN

Chain EG:



• Molecule 4: Flagellar motor switch protein FliN

Chain FG:



• Molecule 4: Flagellar motor switch protein FliN

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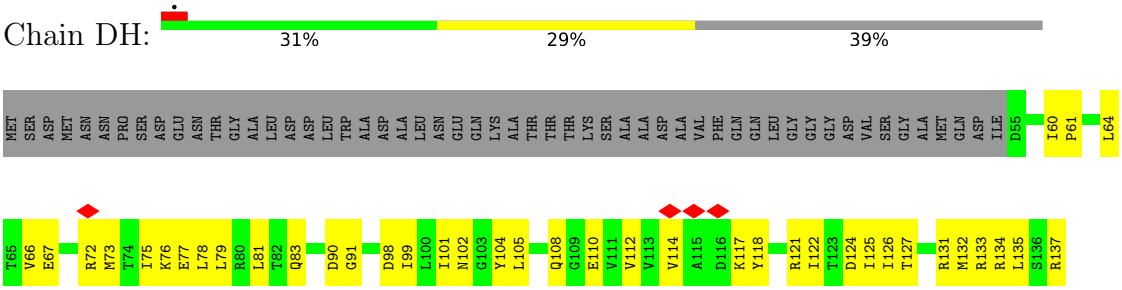
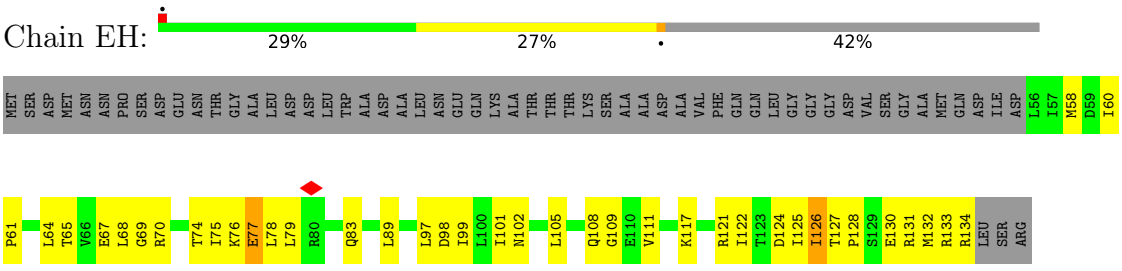


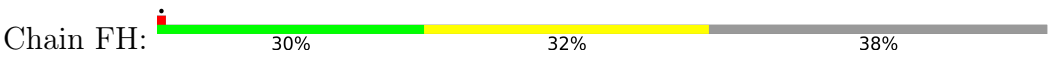
• Molecule 4: Flagellar motor switch protein FliN

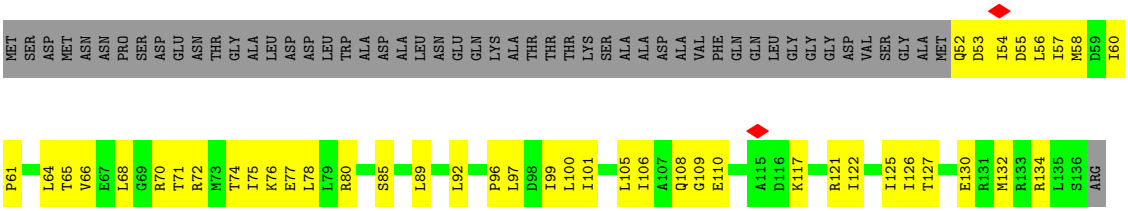
Chain EH:



• Molecule 4: Flagellar motor switch protein FliN

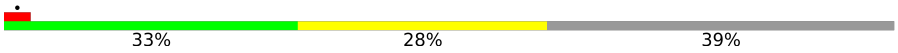
Chain FH:

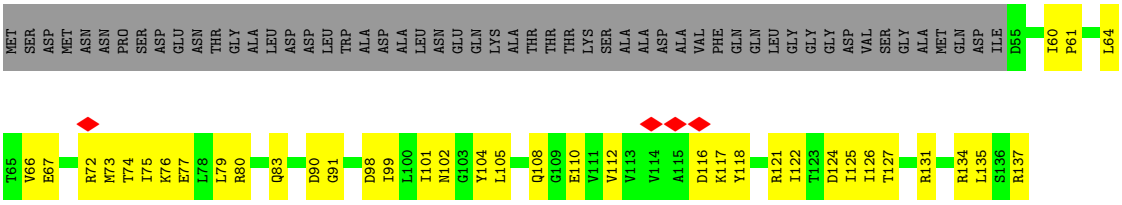




• Molecule 4: Flagellar motor switch protein FliN

Chain DI:





• Molecule 4: Flagellar motor switch protein FliN

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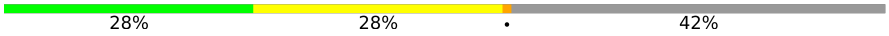
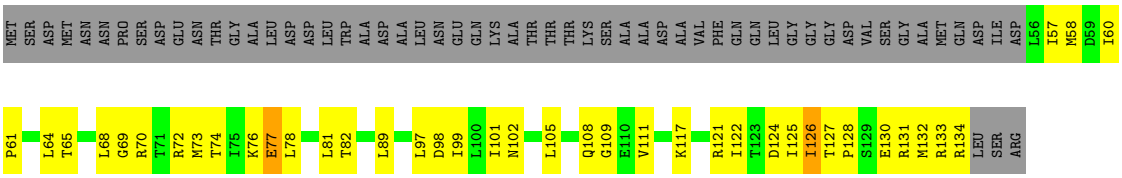
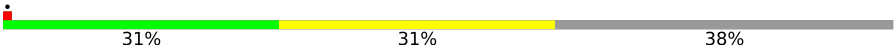
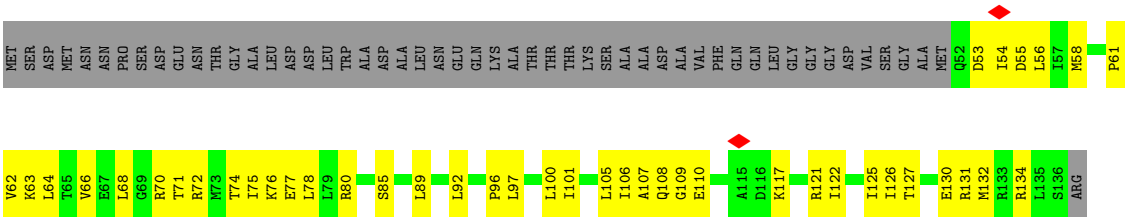




• Molecule 4: Flagellar motor switch protein FliN

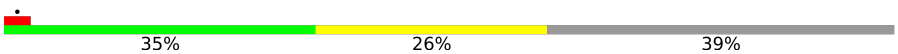
Chain FI:

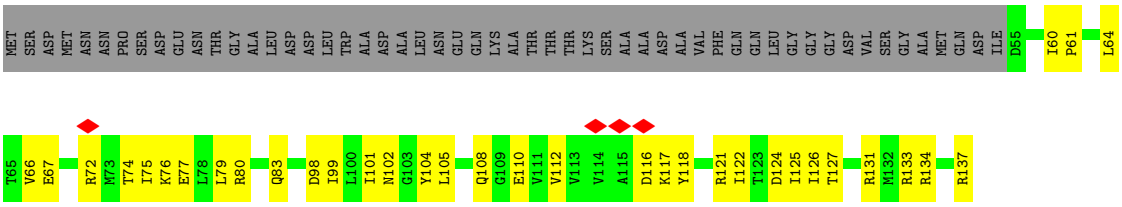




• Molecule 4: Flagellar motor switch protein FliN

Chain DJ:





• Molecule 4: Flagellar motor switch protein FliN

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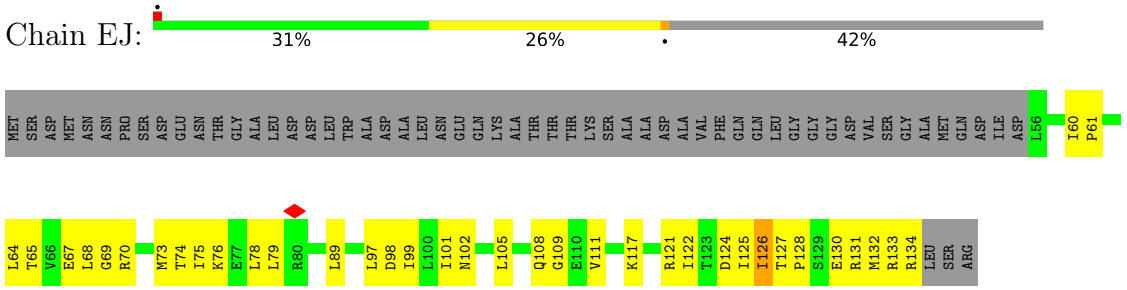
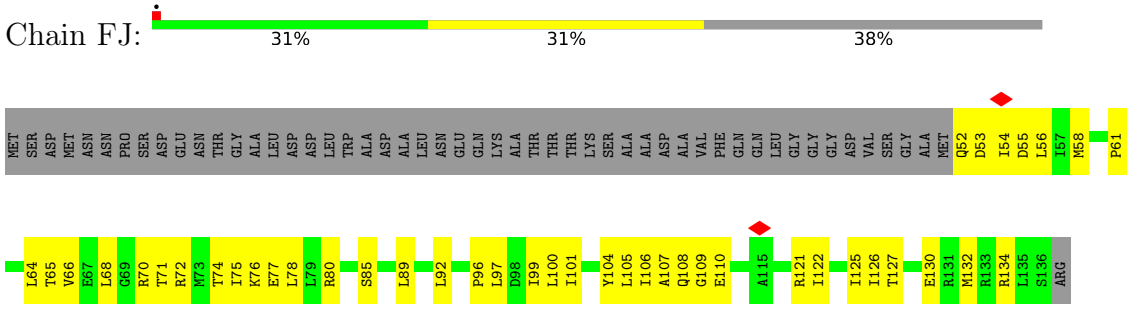


• Molecule 4: Flagellar motor switch protein FliN

Chain FJ:



• Molecule 4: Flagellar motor switch protein FliN

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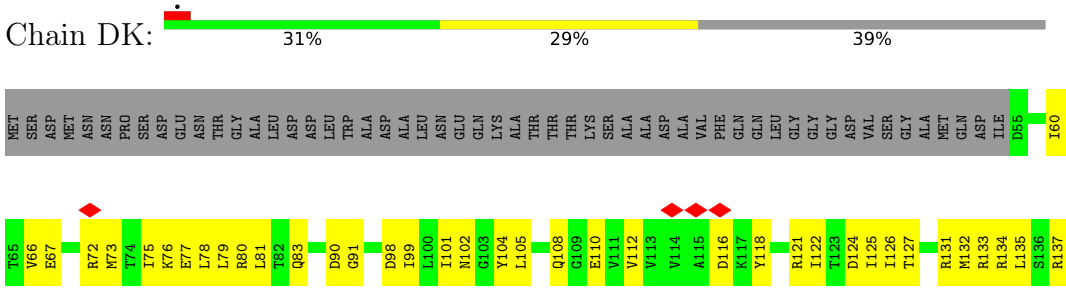
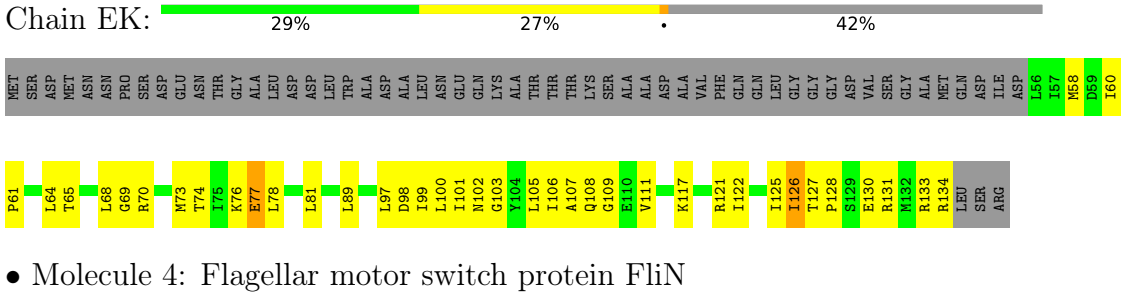


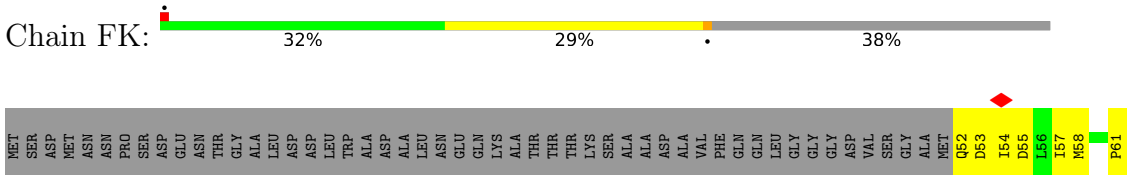
• Molecule 4: Flagellar motor switch protein FliN

Chain EK:



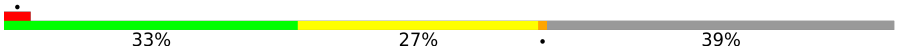
• Molecule 4: Flagellar motor switch protein FliN

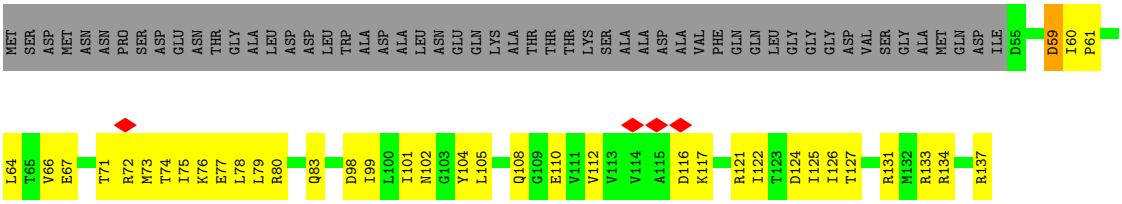
Chain FK:



• Molecule 4: Flagellar motor switch protein FliN

Chain DL:





• Molecule 4: Flagellar motor switch protein FliN

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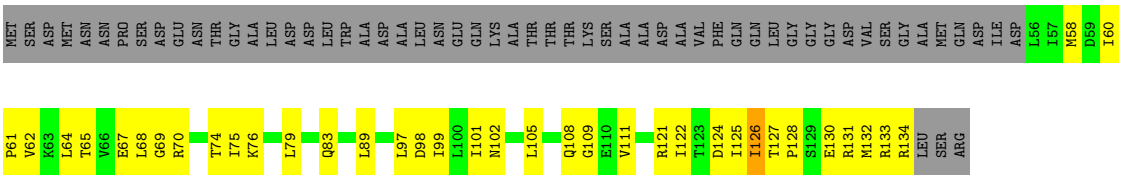
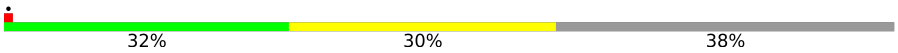
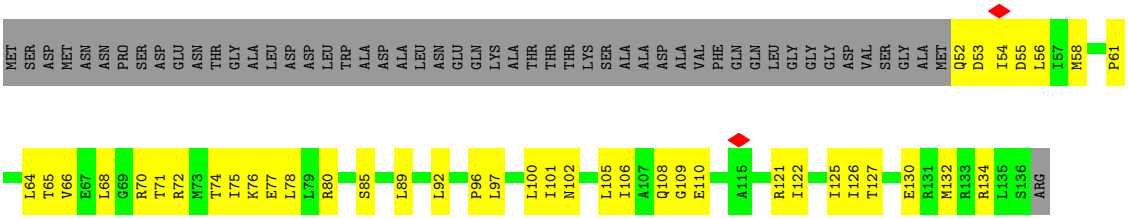


• Molecule 4: Flagellar motor switch protein FliN

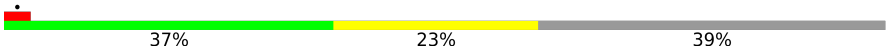
Chain FL:

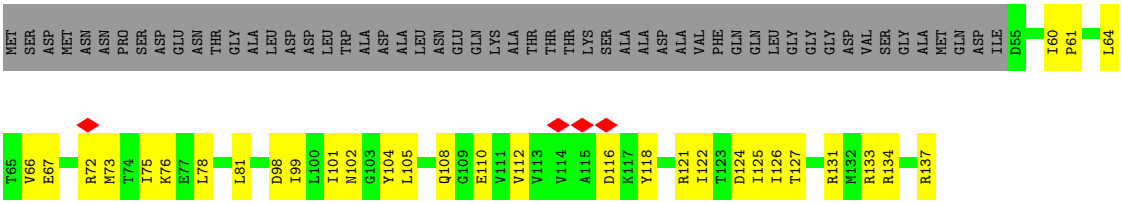




• Molecule 4: Flagellar motor switch protein FliN

Chain DM:





• Molecule 4: Flagellar motor switch protein FliN

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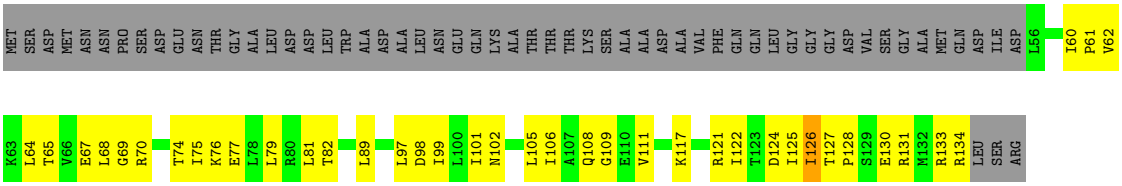
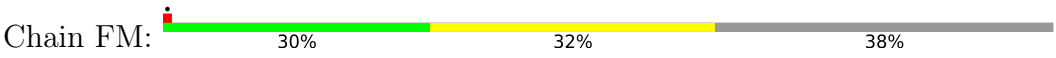
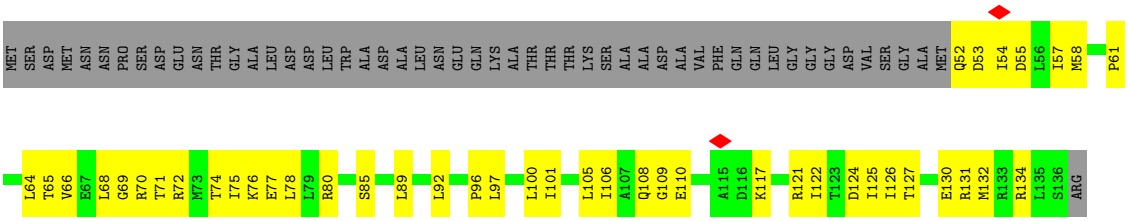
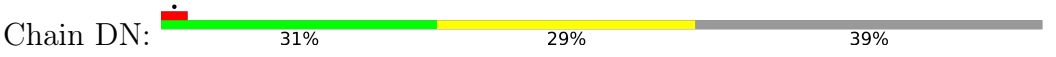


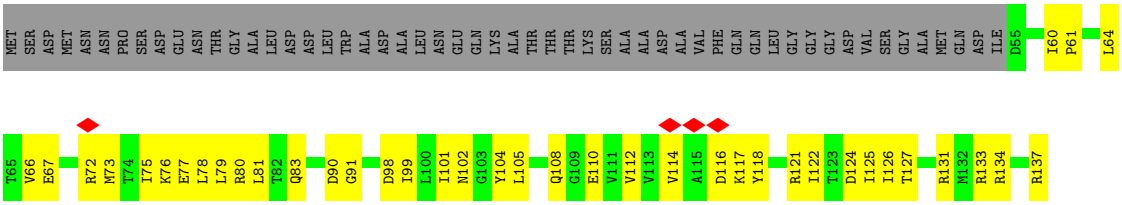
• Molecule 4: Flagellar motor switch protein FliN



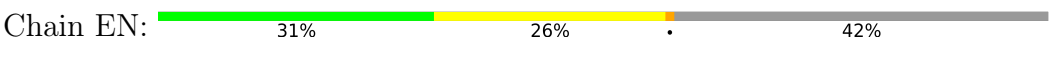


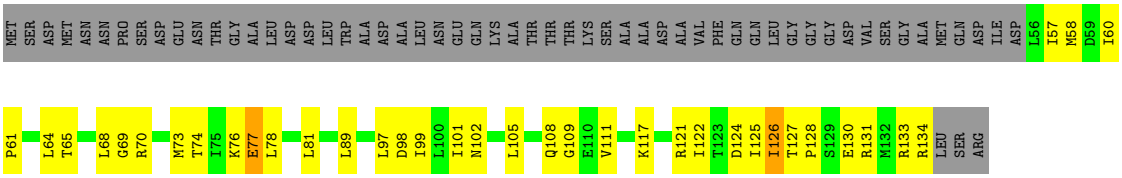
• Molecule 4: Flagellar motor switch protein FliN



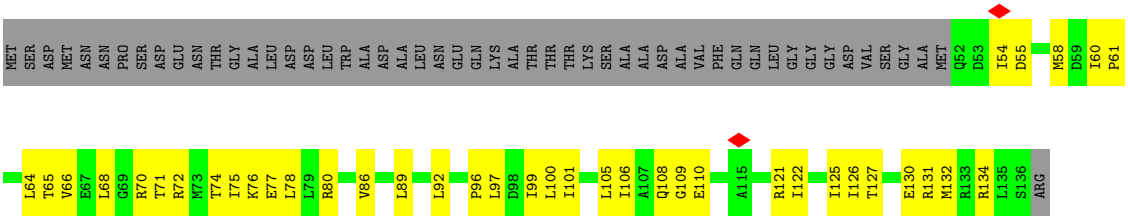


• Molecule 4: Flagellar motor switch protein FliN



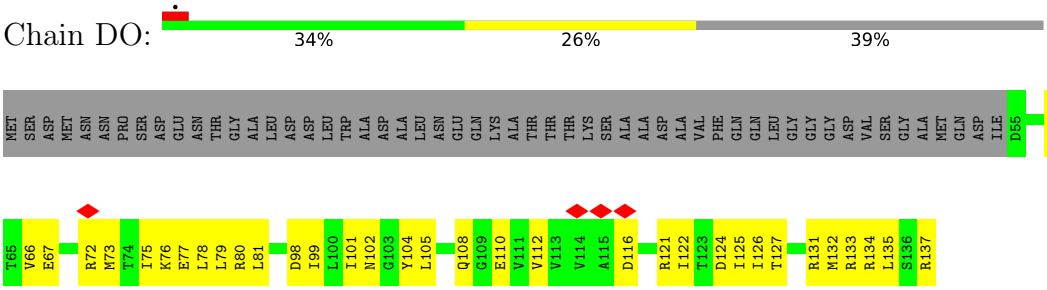


• Molecule 4: Flagellar motor switch protein FliN



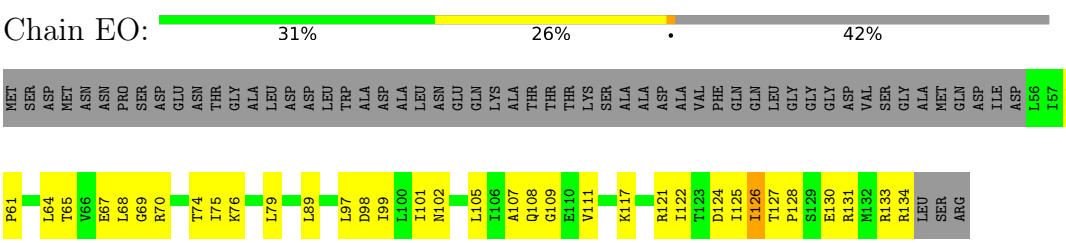
• Molecule 4: Flagellar motor switch protein FliN

Chain DO:



• Molecule 4: Flagellar motor switch protein FliN

Chain EO:



• Molecule 4: Flagellar motor switch protein FliN

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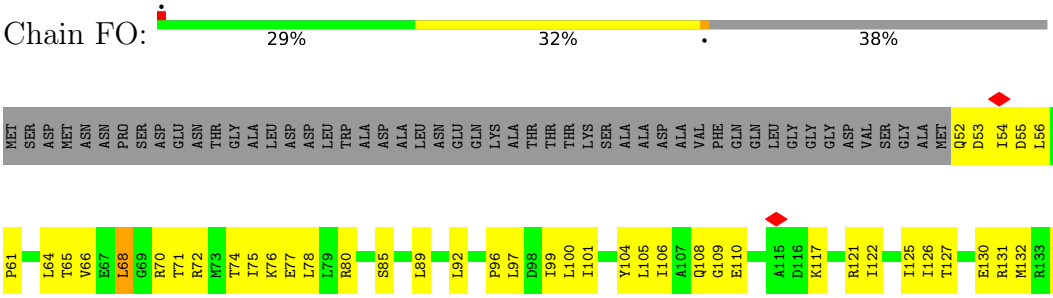

• Molecule 4: Flagellar motor switch protein FliN

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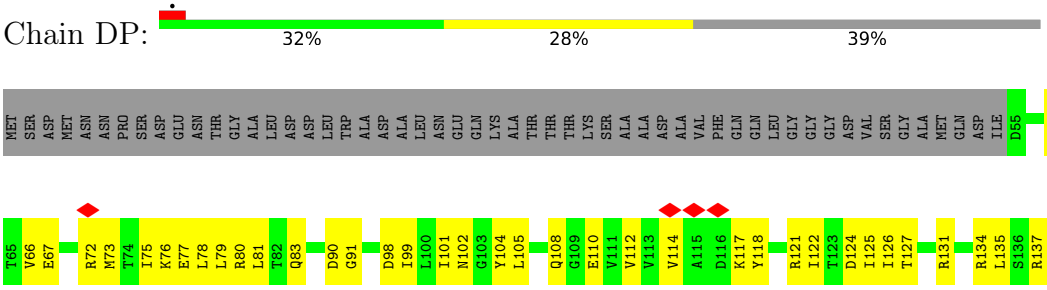
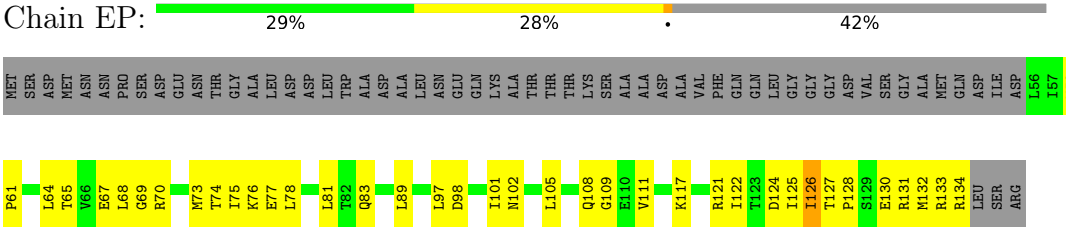


• Molecule 4: Flagellar motor switch protein FliN

Chain EP:



• Molecule 4: Flagellar motor switch protein FliN

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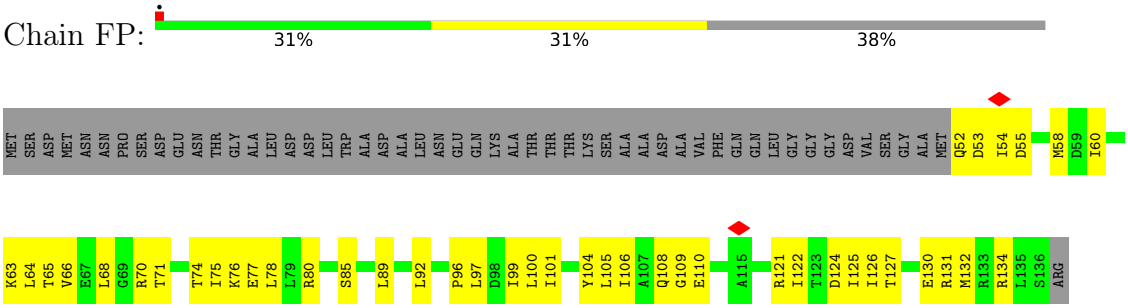
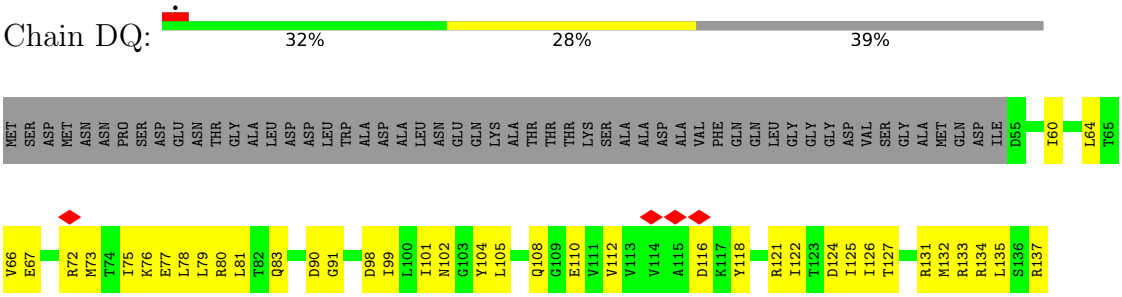


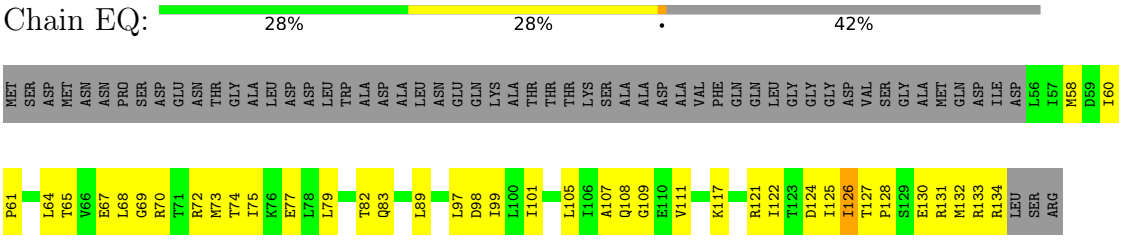
• Molecule 4: Flagellar motor switch protein FliN

Chain DQ:



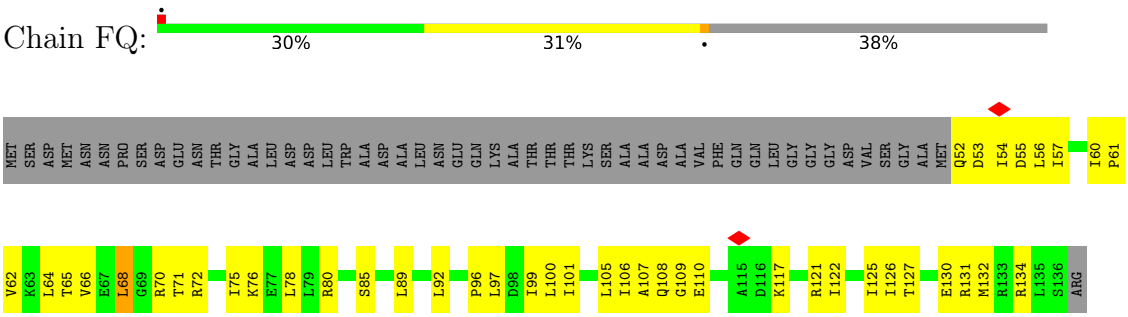
• Molecule 4: Flagellar motor switch protein FliN

Chain EQ:



• Molecule 4: Flagellar motor switch protein FliN

Chain FQ:



• Molecule 4: Flagellar motor switch protein FliN

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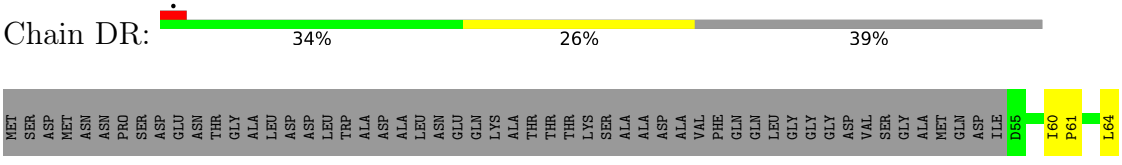
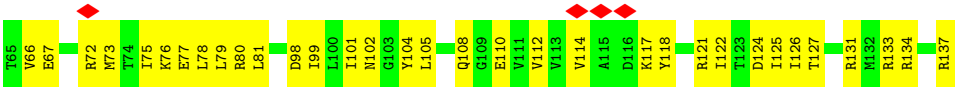
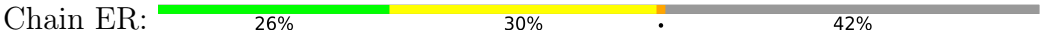
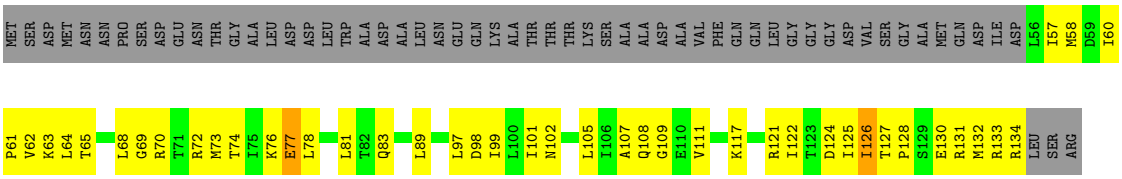




• Molecule 4: Flagellar motor switch protein FliN

Chain ER:





• Molecule 4: Flagellar motor switch protein FliN

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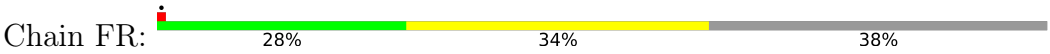
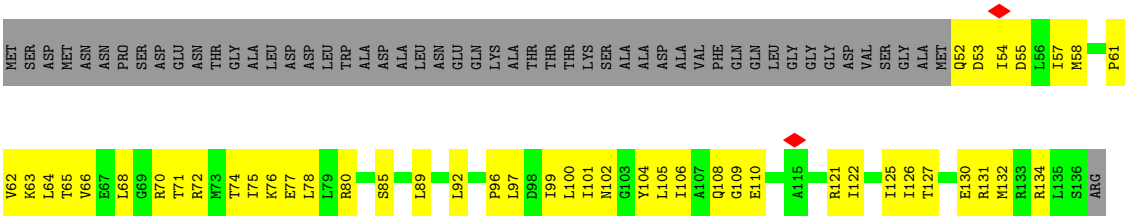
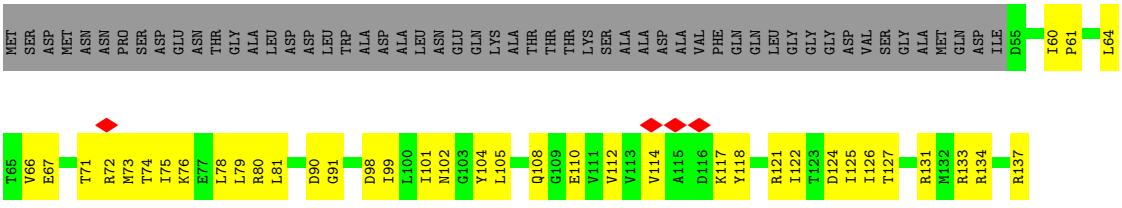




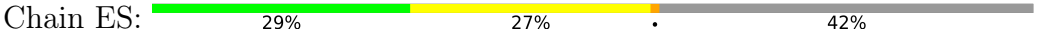
• Molecule 4: Flagellar motor switch protein FliN

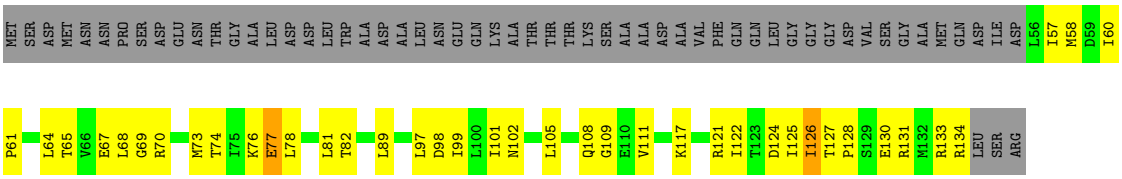
Chain DS:



• Molecule 4: Flagellar motor switch protein FliN

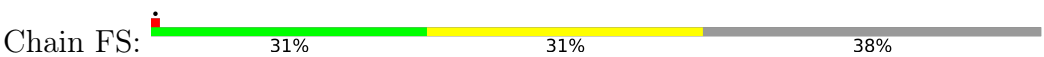
Chain ES:

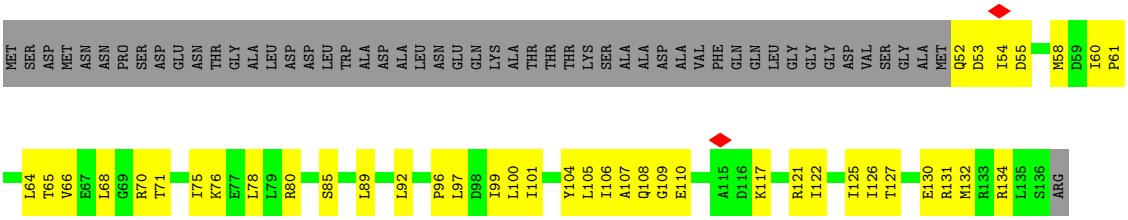




• Molecule 4: Flagellar motor switch protein FliN

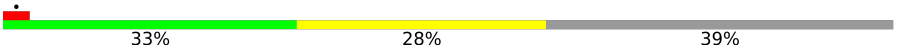
Chain FS:

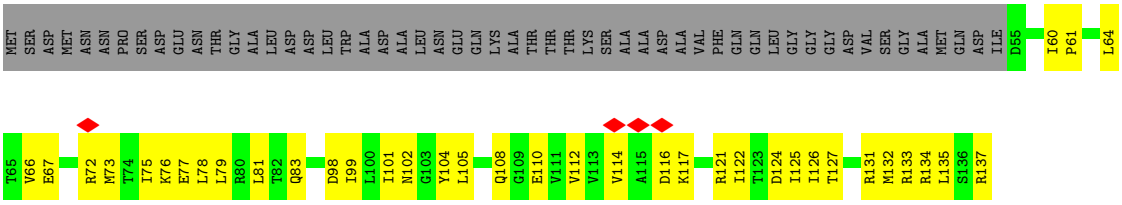




• Molecule 4: Flagellar motor switch protein FliN

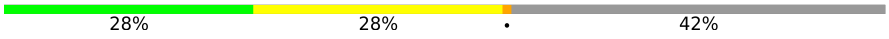
Chain DT:

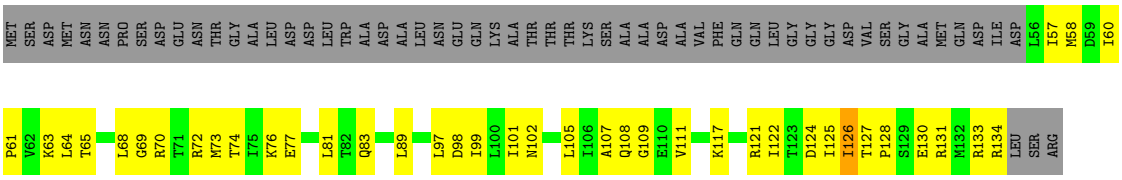




• Molecule 4: Flagellar motor switch protein FliN

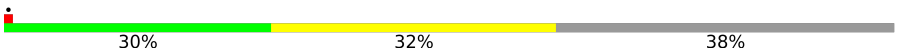
Chain ET:

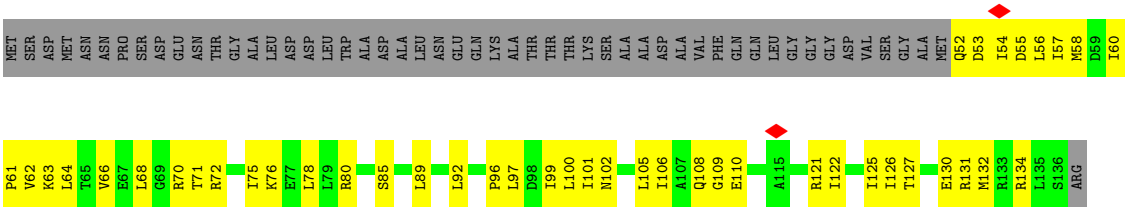




• Molecule 4: Flagellar motor switch protein FliN

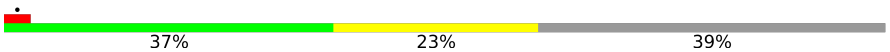
Chain FT:

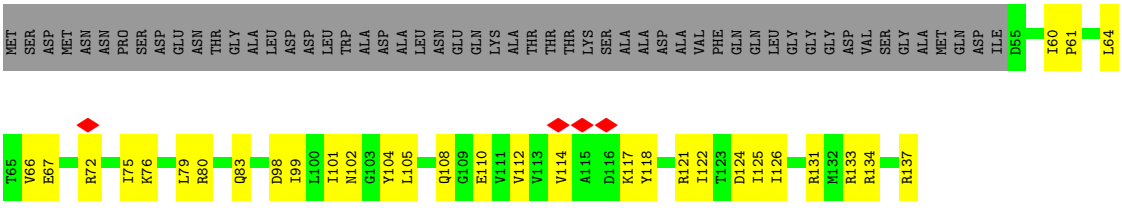




• Molecule 4: Flagellar motor switch protein FliN

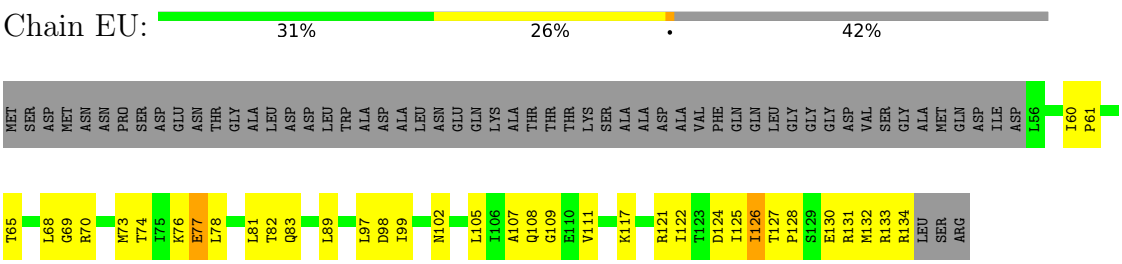
Chain DU:





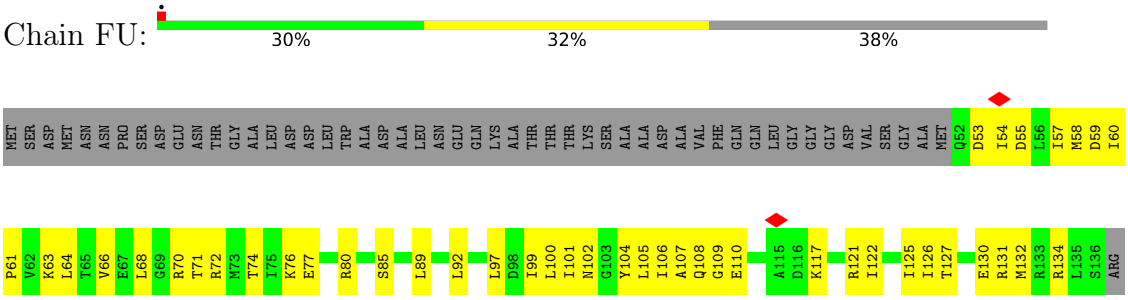
• Molecule 4: Flagellar motor switch protein FliN

Chain EU:



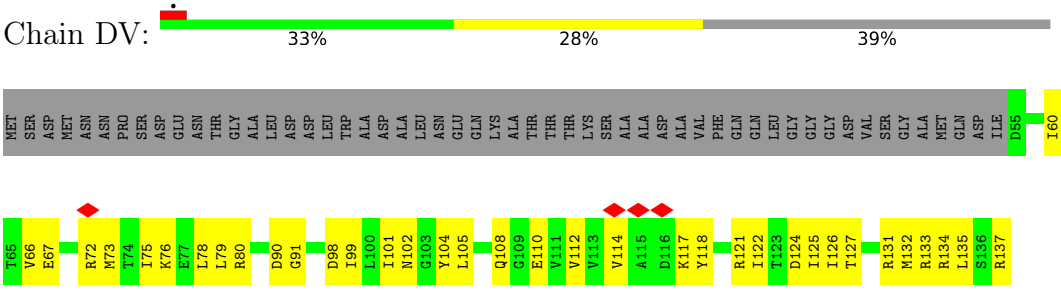
• Molecule 4: Flagellar motor switch protein FliN

Chain FU:



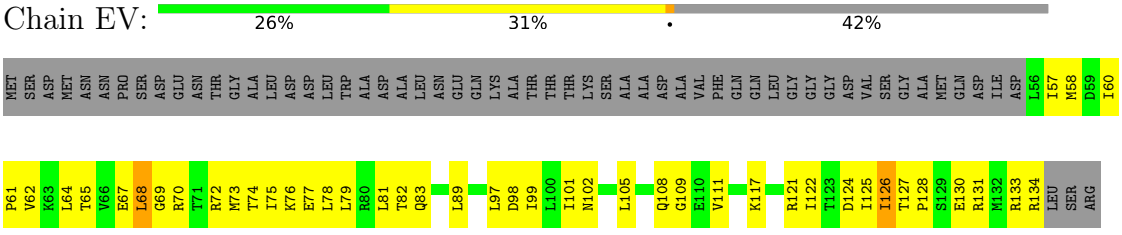
• Molecule 4: Flagellar motor switch protein FliN

Chain DV:



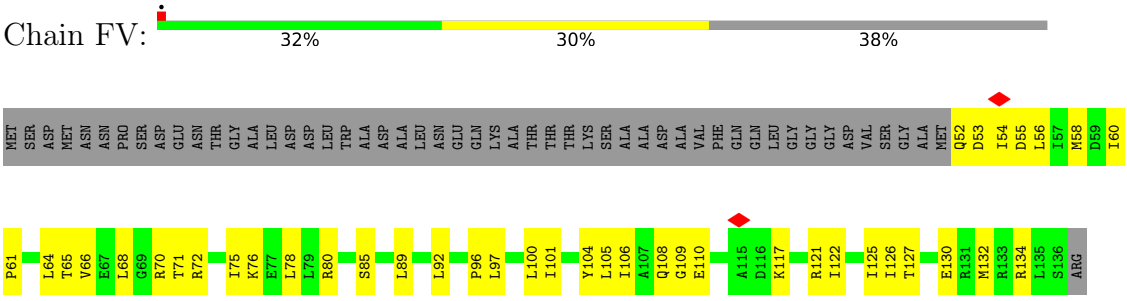
• Molecule 4: Flagellar motor switch protein FliN

Chain EV:



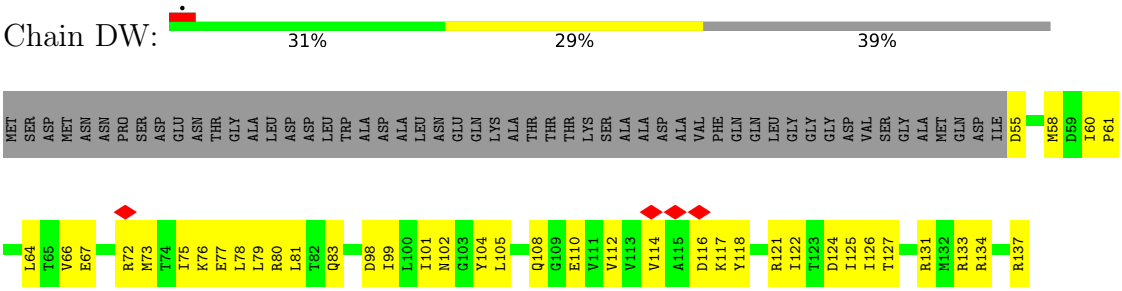
• Molecule 4: Flagellar motor switch protein FliN

Chain FV:



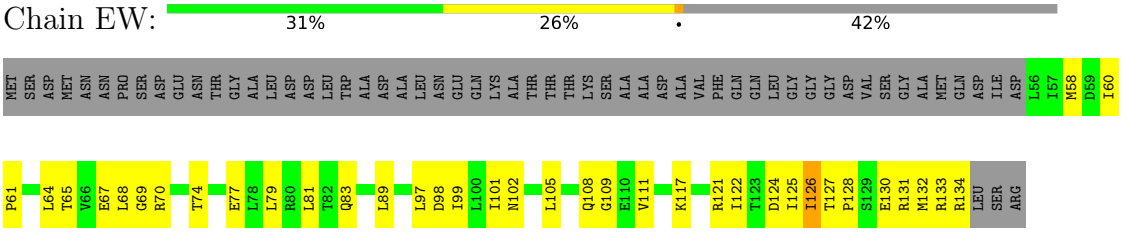
• Molecule 4: Flagellar motor switch protein FliN

Chain DW:



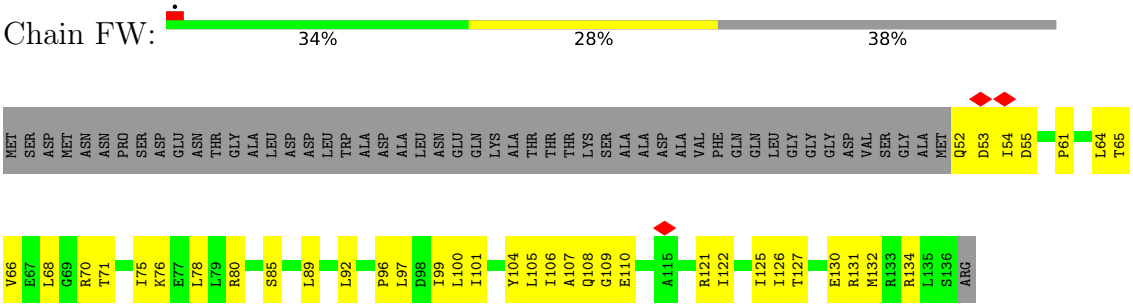
• Molecule 4: Flagellar motor switch protein FliN

Chain EW:



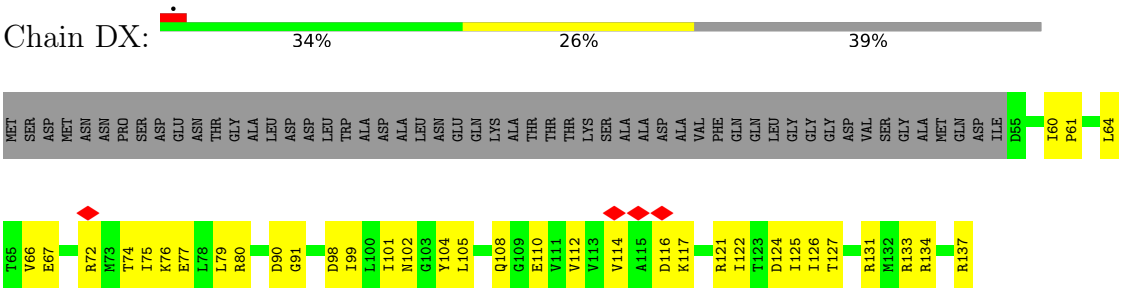
• Molecule 4: Flagellar motor switch protein FliN

Chain FW:



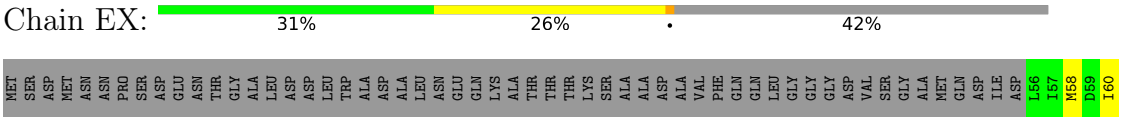
• Molecule 4: Flagellar motor switch protein FliN

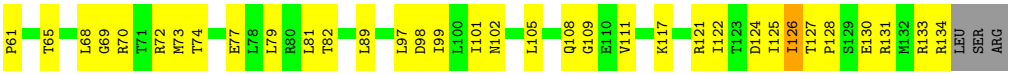
Chain DX:



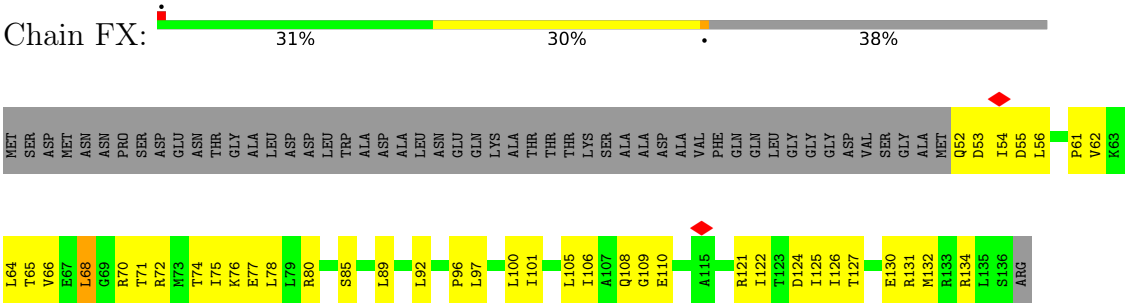
• Molecule 4: Flagellar motor switch protein FliN

Chain EX:

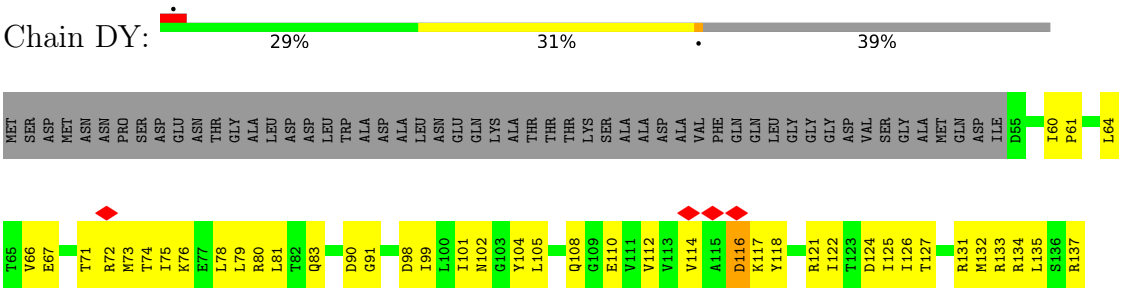




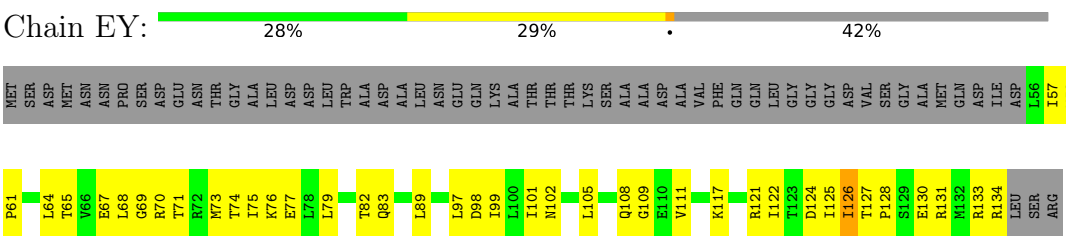
• Molecule 4: Flagellar motor switch protein FliN



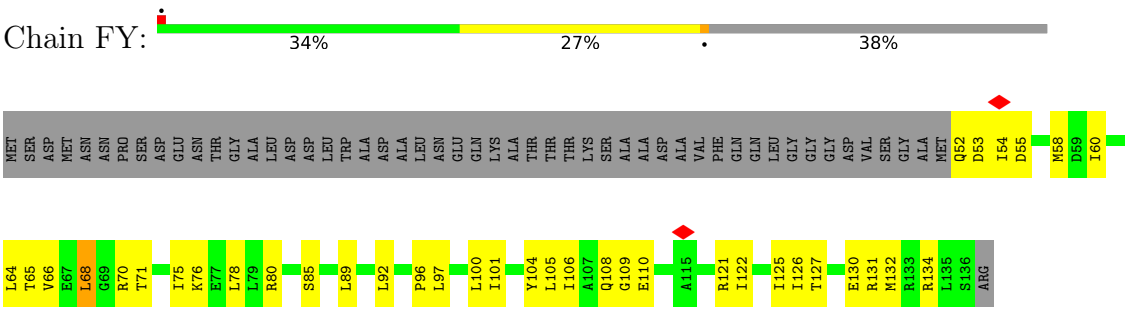
• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



• Molecule 4: Flagellar motor switch protein FliN



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19363	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 ($e^-/Å^2$)	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	1.271	Depositor
Minimum map value	-0.262	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.088	Depositor
Recommended contour level	0.5	Depositor
Map size (Å)	851.968, 851.968, 851.968	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	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	0/370	0.58	0/494
1	A2	0.22	0/370	0.57	0/494
1	A3	0.24	0/370	0.58	0/494
1	A4	0.23	0/370	0.57	0/494
1	A5	0.23	0/370	0.57	0/494
1	A6	0.23	0/370	0.58	0/494
1	A7	0.22	0/370	0.56	0/494
1	A8	0.23	0/370	0.57	0/494
1	A9	0.24	0/370	0.58	0/494
1	AA	0.23	0/370	0.58	0/494
1	AB	0.23	0/370	0.57	0/494
1	AC	0.24	0/370	0.58	0/494
1	AD	0.23	0/370	0.58	0/494
1	AE	0.22	0/370	0.57	0/494
1	AF	0.22	0/370	0.56	0/494
1	AG	0.22	0/370	0.56	0/494
1	AH	0.24	0/370	0.59	0/494
1	AI	0.23	0/370	0.57	0/494
1	AJ	0.23	0/370	0.57	0/494
1	AK	0.24	0/370	0.58	0/494
1	AL	0.23	0/370	0.56	0/494
1	AM	0.23	0/370	0.57	0/494
1	AN	0.24	0/370	0.58	0/494
1	AO	0.22	0/370	0.57	0/494
1	AP	0.23	0/370	0.58	0/494
1	AQ	0.22	0/370	0.57	0/494
1	AR	0.23	0/370	0.58	0/494
1	AS	0.23	0/370	0.57	0/494
1	AT	0.22	0/370	0.56	0/494
1	AU	0.23	0/370	0.58	0/494
1	AV	0.24	0/370	0.57	0/494
1	AW	0.23	0/370	0.57	0/494
1	AX	0.23	0/370	0.56	0/494
1	AY	0.23	0/370	0.58	0/494

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	B1	0.25	0/2586	0.52	0/3485
2	B2	0.25	0/2586	0.52	0/3485
2	B3	0.25	0/2586	0.52	0/3485
2	B4	0.25	0/2586	0.53	0/3485
2	B5	0.25	0/2586	0.53	0/3485
2	B6	0.25	0/2586	0.52	0/3485
2	B7	0.25	0/2586	0.52	0/3485
2	B8	0.25	0/2586	0.52	0/3485
2	B9	0.25	0/2586	0.52	0/3485
2	BA	0.25	0/2586	0.52	0/3485
2	BB	0.25	0/2586	0.52	0/3485
2	BC	0.25	0/2586	0.52	0/3485
2	BD	0.25	0/2586	0.52	0/3485
2	BE	0.25	0/2586	0.52	0/3485
2	BF	0.25	0/2586	0.52	0/3485
2	BG	0.25	0/2586	0.53	0/3485
2	BH	0.25	0/2586	0.52	0/3485
2	BI	0.25	0/2586	0.53	0/3485
2	BJ	0.25	0/2586	0.52	0/3485
2	BK	0.24	0/2586	0.52	0/3485
2	BL	0.25	0/2586	0.52	0/3485
2	BM	0.25	0/2586	0.52	0/3485
2	BN	0.25	0/2586	0.53	0/3485
2	BO	0.24	0/2586	0.52	0/3485
2	BP	0.25	0/2586	0.52	0/3485
2	BQ	0.24	0/2586	0.53	0/3485
2	BR	0.25	0/2586	0.54	1/3485 (0.0%)
2	BS	0.25	0/2586	0.53	0/3485
2	BT	0.25	0/2586	0.52	0/3485
2	BU	0.25	0/2586	0.53	0/3485
2	BV	0.25	0/2586	0.53	0/3485
2	BW	0.25	0/2586	0.54	1/3485 (0.0%)
2	BX	0.25	0/2586	0.53	0/3485
2	BY	0.25	0/2586	0.53	0/3485
3	C1	0.26	0/2377	0.55	0/3233
3	C2	0.26	0/2377	0.55	0/3233
3	C3	0.26	0/2377	0.56	0/3233
3	C4	0.26	0/2377	0.56	0/3233
3	C5	0.26	0/2377	0.56	0/3233
3	C6	0.26	0/2377	0.55	0/3233
3	C7	0.26	0/2377	0.56	0/3233
3	C8	0.26	0/2377	0.55	0/3233
3	C9	0.26	0/2377	0.56	0/3233

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	CA	0.27	0/2377	0.57	0/3233
3	CB	0.27	0/2377	0.56	0/3233
3	CC	0.26	0/2377	0.56	0/3233
3	CD	0.26	0/2377	0.56	0/3233
3	CE	0.26	0/2377	0.56	0/3233
3	CF	0.26	0/2377	0.55	0/3233
3	CG	0.26	0/2377	0.55	0/3233
3	CH	0.26	0/2377	0.55	0/3233
3	CI	0.26	0/2377	0.56	0/3233
3	CJ	0.26	0/2377	0.57	0/3233
3	CK	0.26	0/2377	0.56	0/3233
3	CL	0.26	0/2377	0.56	0/3233
3	CM	0.26	0/2377	0.56	0/3233
3	CN	0.26	0/2377	0.55	0/3233
3	CO	0.26	0/2377	0.55	0/3233
3	CP	0.26	0/2377	0.55	0/3233
3	CQ	0.26	0/2377	0.56	0/3233
3	CR	0.26	0/2377	0.55	0/3233
3	CS	0.26	0/2377	0.55	0/3233
3	CT	0.26	0/2377	0.57	0/3233
3	CU	0.26	0/2377	0.56	0/3233
3	CV	0.26	0/2377	0.56	0/3233
3	CW	0.26	0/2377	0.55	0/3233
3	CX	0.26	0/2377	0.55	0/3233
3	CY	0.26	0/2377	0.55	0/3233
4	D1	0.26	0/647	0.66	0/873
4	D2	0.25	0/647	0.65	0/873
4	D3	0.27	0/647	0.65	0/873
4	D4	0.28	0/647	0.74	1/873 (0.1%)
4	D5	0.27	0/647	0.67	0/873
4	D6	0.26	0/647	0.67	0/873
4	D7	0.30	0/647	0.70	0/873
4	D8	0.27	0/647	0.66	0/873
4	D9	0.27	0/647	0.66	0/873
4	DA	0.27	0/647	0.67	0/873
4	DB	0.27	0/647	0.69	0/873
4	DC	0.26	0/647	0.68	0/873
4	DD	0.25	0/647	0.66	0/873
4	DE	0.27	0/647	0.71	0/873
4	DF	0.27	0/647	0.67	0/873
4	DG	0.25	0/647	0.68	0/873
4	DH	0.27	0/647	0.69	0/873
4	DI	0.25	0/647	0.65	0/873

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	DJ	0.26	0/647	0.67	0/873
4	DK	0.27	0/647	0.66	0/873
4	DL	0.27	0/647	0.74	1/873 (0.1%)
4	DM	0.27	0/647	0.70	0/873
4	DN	0.27	0/647	0.69	0/873
4	DO	0.28	0/647	0.67	0/873
4	DP	0.27	0/647	0.65	0/873
4	DQ	0.27	0/647	0.66	0/873
4	DR	0.27	0/647	0.67	0/873
4	DS	0.27	0/647	0.70	0/873
4	DT	0.27	0/647	0.68	0/873
4	DU	0.25	0/647	0.66	0/873
4	DV	0.26	0/647	0.65	0/873
4	DW	0.26	0/647	0.68	0/873
4	DX	0.25	0/647	0.66	0/873
4	DY	0.28	0/647	0.72	1/873 (0.1%)
4	E1	0.26	0/613	0.66	0/829
4	E2	0.25	0/613	0.67	0/829
4	E3	0.26	0/613	0.69	0/829
4	E4	0.23	0/613	0.63	0/829
4	E5	0.26	0/613	0.66	0/829
4	E6	0.26	0/613	0.68	0/829
4	E7	0.26	0/613	0.68	0/829
4	E8	0.24	0/613	0.64	0/829
4	E9	0.24	0/613	0.65	0/829
4	EA	0.26	0/613	0.68	0/829
4	EB	0.27	0/613	0.67	0/829
4	EC	0.27	0/613	0.68	0/829
4	ED	0.25	0/613	0.69	0/829
4	EE	0.26	0/613	0.68	1/829 (0.1%)
4	EF	0.26	0/613	0.67	0/829
4	EG	0.25	0/613	0.68	0/829
4	EH	0.26	0/613	0.69	0/829
4	EI	0.26	0/613	0.66	0/829
4	EJ	0.26	0/613	0.68	0/829
4	EK	0.26	0/613	0.68	0/829
4	EL	0.23	0/613	0.63	0/829
4	EM	0.24	0/613	0.63	0/829
4	EN	0.26	0/613	0.68	0/829
4	EO	0.24	0/613	0.65	0/829
4	EP	0.23	0/613	0.65	0/829
4	EQ	0.27	0/613	0.68	0/829
4	ER	0.27	0/613	0.67	0/829

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	ES	0.26	0/613	0.66	0/829
4	ET	0.25	0/613	0.67	0/829
4	EU	0.27	0/613	0.68	0/829
4	EV	0.30	0/613	0.69	1/829 (0.1%)
4	EW	0.24	0/613	0.63	0/829
4	EX	0.24	0/613	0.69	0/829
4	EY	0.25	0/613	0.64	0/829
4	F1	0.25	0/660	0.66	0/893
4	F2	0.25	0/660	0.63	0/893
4	F3	0.25	0/660	0.63	1/893 (0.1%)
4	F4	0.25	0/660	0.64	0/893
4	F5	0.26	0/660	0.63	0/893
4	F6	0.25	0/660	0.65	0/893
4	F7	0.25	0/660	0.64	1/893 (0.1%)
4	F8	0.26	0/660	0.67	1/893 (0.1%)
4	F9	0.27	0/660	0.68	2/893 (0.2%)
4	FA	0.25	0/660	0.66	0/893
4	FB	0.27	0/660	0.68	1/893 (0.1%)
4	FC	0.25	0/660	0.65	1/893 (0.1%)
4	FD	0.26	0/660	0.67	2/893 (0.2%)
4	FE	0.26	0/660	0.65	1/893 (0.1%)
4	FF	0.25	0/660	0.66	1/893 (0.1%)
4	FG	0.26	0/660	0.66	1/893 (0.1%)
4	FH	0.25	0/660	0.67	0/893
4	FI	0.25	0/660	0.64	0/893
4	FJ	0.26	0/660	0.65	0/893
4	FK	0.25	0/660	0.63	1/893 (0.1%)
4	FL	0.25	0/660	0.65	0/893
4	FM	0.26	0/660	0.66	0/893
4	FN	0.26	0/660	0.64	0/893
4	FO	0.25	0/660	0.66	1/893 (0.1%)
4	FP	0.25	0/660	0.66	0/893
4	FQ	0.25	0/660	0.64	1/893 (0.1%)
4	FR	0.25	0/660	0.67	0/893
4	FS	0.25	0/660	0.65	0/893
4	FT	0.25	0/660	0.65	0/893
4	FU	0.29	0/660	0.68	1/893 (0.1%)
4	FV	0.26	0/660	0.64	0/893
4	FW	0.25	0/660	0.66	0/893
4	FX	0.26	0/660	0.65	1/893 (0.1%)
4	FY	0.25	0/660	0.65	1/893 (0.1%)
All	All	0.25	0/246602	0.58	25/333438 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	CC	0	1
3	CG	0	1
3	CY	0	1
4	E1	0	1
4	E3	0	1
4	E5	0	1
4	E6	0	1
4	E7	0	1
4	EA	0	1
4	EB	0	1
4	EC	0	1
4	EE	0	1
4	EF	0	1
4	EH	0	1
4	EI	0	1
4	EK	0	1
4	EN	0	1
4	ER	0	1
4	ES	0	1
4	EU	0	1
All	All	0	20

There are no bond length outliers.

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	BR	193	MET	CA-CB-CG	7.27	125.66	113.30
2	BW	193	MET	CA-CB-CG	7.21	125.56	113.30
4	FB	105	LEU	CA-CB-CG	5.84	128.74	115.30
4	F9	105	LEU	CA-CB-CG	5.78	128.58	115.30
4	FU	59	ASP	CB-CG-OD2	5.31	123.08	118.30
4	DY	116	ASP	CB-CG-OD2	5.30	123.07	118.30
4	DL	59	ASP	CB-CG-OD2	5.27	123.04	118.30
4	D4	59	ASP	CB-CG-OD2	5.25	123.02	118.30
4	EV	68	LEU	CA-CB-CG	5.21	127.27	115.30
4	FD	59	ASP	CB-CG-OD2	5.17	122.96	118.30
4	FG	68	LEU	CA-CB-CG	5.13	127.09	115.30
4	EE	78	LEU	CA-CB-CG	5.08	126.97	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	FC	68	LEU	CA-CB-CG	5.07	126.97	115.30
4	FQ	68	LEU	CA-CB-CG	5.05	126.92	115.30
4	FD	68	LEU	CA-CB-CG	5.05	126.91	115.30
4	F3	68	LEU	CA-CB-CG	5.04	126.90	115.30
4	FK	68	LEU	CA-CB-CG	5.04	126.88	115.30
4	F7	68	LEU	CA-CB-CG	5.03	126.86	115.30
4	FF	68	LEU	CA-CB-CG	5.02	126.86	115.30
4	FY	68	LEU	CA-CB-CG	5.02	126.85	115.30
4	FX	68	LEU	CA-CB-CG	5.02	126.85	115.30
4	FO	68	LEU	CA-CB-CG	5.02	126.84	115.30
4	F9	68	LEU	CA-CB-CG	5.01	126.83	115.30
4	FE	68	LEU	CA-CB-CG	5.01	126.83	115.30
4	F8	68	LEU	CA-CB-CG	5.01	126.81	115.30

There are no chirality outliers.

All (20) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	CC	63	ARG	Sidechain
3	CG	63	ARG	Sidechain
3	CY	63	ARG	Sidechain
4	E1	77	GLU	Peptide
4	E3	77	GLU	Peptide
4	E5	77	GLU	Peptide
4	E6	77	GLU	Peptide
4	E7	77	GLU	Peptide
4	EA	77	GLU	Peptide
4	EB	77	GLU	Peptide
4	EC	77	GLU	Peptide
4	EE	77	GLU	Peptide
4	EF	77	GLU	Peptide
4	EH	77	GLU	Peptide
4	EI	77	GLU	Peptide
4	EK	77	GLU	Peptide
4	EN	77	GLU	Peptide
4	ER	77	GLU	Peptide
4	ES	77	GLU	Peptide
4	EU	77	GLU	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	367	0	361	26	0
1	A2	367	0	361	25	0
1	A3	367	0	361	27	0
1	A4	367	0	361	25	0
1	A5	367	0	361	24	0
1	A6	367	0	361	24	0
1	A7	367	0	361	24	0
1	A8	367	0	361	23	0
1	A9	367	0	361	25	0
1	AA	367	0	361	24	0
1	AB	367	0	361	25	0
1	AC	367	0	361	23	0
1	AD	367	0	361	23	0
1	AE	367	0	361	26	0
1	AF	367	0	361	21	0
1	AG	367	0	361	20	0
1	AH	367	0	361	30	0
1	AI	367	0	361	25	0
1	AJ	367	0	361	21	0
1	AK	367	0	361	23	0
1	AL	367	0	361	23	0
1	AM	367	0	361	22	0
1	AN	367	0	361	25	0
1	AO	367	0	361	27	0
1	AP	367	0	361	26	0
1	AQ	367	0	361	23	0
1	AR	367	0	361	24	0
1	AS	367	0	361	24	0
1	AT	367	0	361	21	0
1	AU	367	0	361	24	0
1	AV	367	0	361	26	0
1	AW	367	0	361	23	0
1	AX	367	0	361	22	0
1	AY	367	0	361	24	0
2	B1	2566	0	2615	125	0
2	B2	2566	0	2615	125	0
2	B3	2566	0	2615	121	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B4	2566	0	2615	132	0
2	B5	2566	0	2615	121	0
2	B6	2566	0	2615	124	0
2	B7	2566	0	2615	122	0
2	B8	2566	0	2615	120	0
2	B9	2566	0	2615	115	0
2	BA	2566	0	2615	119	0
2	BB	2566	0	2615	118	0
2	BC	2566	0	2615	120	0
2	BD	2566	0	2615	121	0
2	BE	2566	0	2615	122	0
2	BF	2566	0	2615	120	0
2	BG	2566	0	2615	120	0
2	BH	2566	0	2615	116	0
2	BI	2566	0	2615	128	0
2	BJ	2566	0	2615	127	0
2	BK	2566	0	2615	121	0
2	BL	2566	0	2615	119	0
2	BM	2566	0	2615	125	0
2	BN	2566	0	2615	119	0
2	BO	2566	0	2615	119	0
2	BP	2566	0	2615	119	0
2	BQ	2566	0	2615	125	0
2	BR	2566	0	2615	117	0
2	BS	2566	0	2615	120	0
2	BT	2566	0	2615	126	0
2	BU	2566	0	2615	123	0
2	BV	2566	0	2615	121	0
2	BW	2566	0	2615	119	0
2	BX	2566	0	2615	124	0
2	BY	2566	0	2615	131	0
3	C1	2325	0	2354	96	0
3	C2	2325	0	2354	93	0
3	C3	2325	0	2354	88	0
3	C4	2325	0	2354	92	0
3	C5	2325	0	2354	86	0
3	C6	2325	0	2354	86	0
3	C7	2325	0	2354	94	0
3	C8	2325	0	2354	95	0
3	C9	2325	0	2354	91	0
3	CA	2325	0	2354	96	0
3	CB	2325	0	2354	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	CC	2325	0	2354	90	0
3	CD	2325	0	2354	92	0
3	CE	2325	0	2354	94	0
3	CF	2325	0	2354	94	0
3	CG	2325	0	2354	99	0
3	CH	2325	0	2354	85	0
3	CI	2325	0	2354	96	0
3	CJ	2325	0	2354	86	0
3	CK	2325	0	2354	88	0
3	CL	2325	0	2354	90	0
3	CM	2325	0	2354	81	0
3	CN	2325	0	2354	90	0
3	CO	2325	0	2354	91	0
3	CP	2325	0	2354	93	0
3	CQ	2325	0	2354	88	0
3	CR	2325	0	2354	85	0
3	CS	2325	0	2354	92	0
3	CT	2325	0	2354	88	0
3	CU	2325	0	2354	89	0
3	CV	2325	0	2354	90	0
3	CW	2325	0	2354	88	0
3	CX	2325	0	2354	92	0
3	CY	2325	0	2354	84	0
4	D1	643	0	694	36	0
4	D2	643	0	694	38	0
4	D3	643	0	694	36	0
4	D4	643	0	694	39	0
4	D5	643	0	694	32	0
4	D6	643	0	694	37	0
4	D7	643	0	694	33	0
4	D8	643	0	694	36	0
4	D9	643	0	694	36	0
4	DA	643	0	694	42	0
4	DB	643	0	694	38	0
4	DC	643	0	694	37	0
4	DD	643	0	694	29	0
4	DE	643	0	694	38	0
4	DF	643	0	694	41	0
4	DG	643	0	694	40	0
4	DH	643	0	694	37	0
4	DI	643	0	694	35	0
4	DJ	643	0	694	37	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	DK	643	0	694	39	0
4	DL	643	0	694	36	0
4	DM	643	0	694	31	0
4	DN	643	0	694	39	0
4	DO	643	0	694	35	0
4	DP	643	0	694	34	0
4	DQ	643	0	694	37	0
4	DR	643	0	694	35	0
4	DS	643	0	694	38	0
4	DT	643	0	694	35	0
4	DU	643	0	694	29	0
4	DV	643	0	694	34	0
4	DW	643	0	694	39	0
4	DX	643	0	694	35	0
4	DY	643	0	694	43	0
4	E1	609	0	661	42	0
4	E2	609	0	661	40	0
4	E3	609	0	661	42	0
4	E4	609	0	661	35	0
4	E5	609	0	661	41	0
4	E6	609	0	661	39	0
4	E7	609	0	661	42	0
4	E8	609	0	661	38	0
4	E9	609	0	661	41	0
4	EA	609	0	661	39	0
4	EB	609	0	661	39	0
4	EC	609	0	661	44	0
4	ED	609	0	661	43	0
4	EE	609	0	661	42	0
4	EF	609	0	661	40	0
4	EG	609	0	661	47	0
4	EH	609	0	661	44	0
4	EI	609	0	661	41	0
4	EJ	609	0	661	41	0
4	EK	609	0	661	41	0
4	EL	609	0	661	39	0
4	EM	609	0	661	41	0
4	EN	609	0	661	37	0
4	EO	609	0	661	40	0
4	EP	609	0	661	37	0
4	EQ	609	0	661	40	0
4	ER	609	0	661	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	ES	609	0	661	38	0
4	ET	609	0	661	42	0
4	EU	609	0	661	39	0
4	EV	609	0	661	46	0
4	EW	609	0	661	34	0
4	EX	609	0	661	38	0
4	EY	609	0	661	42	0
4	F1	656	0	704	43	0
4	F2	656	0	704	41	0
4	F3	656	0	704	42	0
4	F4	656	0	704	40	0
4	F5	656	0	704	47	0
4	F6	656	0	704	43	0
4	F7	656	0	704	54	0
4	F8	656	0	704	52	0
4	F9	656	0	704	51	0
4	FA	656	0	704	47	0
4	FB	656	0	704	51	0
4	FC	656	0	704	51	0
4	FD	656	0	704	46	0
4	FE	656	0	704	51	0
4	FF	656	0	704	38	0
4	FG	656	0	704	51	0
4	FH	656	0	704	48	0
4	FI	656	0	704	42	0
4	FJ	656	0	704	46	0
4	FK	656	0	704	40	0
4	FL	656	0	704	42	0
4	FM	656	0	704	45	0
4	FN	656	0	704	40	0
4	FO	656	0	704	47	0
4	FP	656	0	704	44	0
4	FQ	656	0	704	46	0
4	FR	656	0	704	48	0
4	FS	656	0	704	41	0
4	FT	656	0	704	45	0
4	FU	656	0	704	40	0
4	FV	656	0	704	44	0
4	FW	656	0	704	37	0
4	FX	656	0	704	43	0
4	FY	656	0	704	43	0
All	All	243644	0	251226	9691	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 20.

All (9691) 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)
4:ES:73:MET:HE1	4:ES:78:LEU:HG	1.44	1.00
4:E5:73:MET:HE1	4:E5:78:LEU:HG	1.44	0.98
4:EN:73:MET:HE1	4:EN:78:LEU:HG	1.45	0.96
4:EG:72:ARG:HH12	4:FG:61:PRO:HB2	1.32	0.94
4:ER:73:MET:HE1	4:ER:78:LEU:HG	1.49	0.93
1:AK:540:SER:HB2	2:BK:21:ARG:HH21	1.34	0.92
4:EB:73:MET:HE1	4:EB:78:LEU:HG	1.48	0.92
3:CI:247:ARG:NH2	4:EJ:79:LEU:O	2.03	0.92
1:AY:540:SER:HB2	2:BY:21:ARG:HH21	1.34	0.92
3:CC:247:ARG:NH2	4:ED:79:LEU:O	2.03	0.91
1:AC:540:SER:HB2	2:BC:21:ARG:HH21	1.35	0.91
1:AI:540:SER:HB2	2:BI:21:ARG:HH21	1.35	0.91
1:A3:540:SER:HB2	2:B3:21:ARG:HH21	1.35	0.91
1:AH:540:SER:HB2	2:BH:21:ARG:HH21	1.35	0.91
1:AO:540:SER:HB2	2:BO:21:ARG:HH21	1.35	0.91
3:C9:253:GLN:NE2	4:FA:105:LEU:O	2.04	0.91
1:AL:540:SER:HB2	2:BL:21:ARG:HH21	1.36	0.91
1:AF:540:SER:HB2	2:BF:21:ARG:HH21	1.36	0.91
3:CF:253:GLN:HE22	4:FG:106:ILE:HD13	1.34	0.91
3:CG:247:ARG:NH2	4:EH:79:LEU:O	2.02	0.91
3:CA:247:ARG:NH2	4:EB:79:LEU:O	2.03	0.91
1:AN:540:SER:HB2	2:BN:21:ARG:HH21	1.35	0.91
3:C5:253:GLN:NE2	4:F6:105:LEU:O	2.04	0.90
1:A8:540:SER:HB2	2:B8:21:ARG:HH21	1.35	0.90
1:AB:540:SER:HB2	2:BB:21:ARG:HH21	1.35	0.90
1:AA:540:SER:HB2	2:BA:21:ARG:HH21	1.35	0.90
1:AS:540:SER:HB2	2:BS:21:ARG:HH21	1.35	0.90
1:A5:540:SER:HB2	2:B5:21:ARG:HH21	1.36	0.90
1:AQ:540:SER:HB2	2:BQ:21:ARG:HH21	1.36	0.90
1:AT:540:SER:HB2	2:BT:21:ARG:HH21	1.36	0.90
1:A9:540:SER:HB2	2:B9:21:ARG:HH21	1.35	0.90
3:C9:247:ARG:NH2	4:EA:79:LEU:O	2.05	0.90
1:AW:540:SER:HB2	2:BW:21:ARG:HH21	1.36	0.90
4:EC:73:MET:HE1	4:EC:78:LEU:HG	1.50	0.90
1:AR:540:SER:HB2	2:BR:21:ARG:HH21	1.35	0.90
1:AE:540:SER:HB2	2:BE:21:ARG:HH21	1.36	0.89
1:A1:540:SER:HB2	2:B1:21:ARG:HH21	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:101:ILE:HG12	4:FA:106:ILE:HD11	1.52	0.89
1:AD:540:SER:HB2	2:BD:21:ARG:HH21	1.35	0.89
1:A7:540:SER:HB2	2:B7:21:ARG:HH21	1.36	0.89
3:CD:247:ARG:NH2	4:EE:79:LEU:O	2.05	0.89
1:A6:540:SER:HB2	2:B6:21:ARG:HH21	1.35	0.89
3:CE:255:GLN:HG2	4:DE:76:LYS:HG3	1.55	0.89
3:CB:255:GLN:HG2	4:DB:76:LYS:HG3	1.55	0.89
1:A2:540:SER:HB2	2:B2:21:ARG:HH21	1.37	0.88
1:AM:540:SER:HB2	2:BM:21:ARG:HH21	1.35	0.88
3:CD:253:GLN:HE22	4:FE:106:ILE:HD13	1.37	0.88
1:AU:540:SER:HB2	2:BU:21:ARG:HH21	1.38	0.88
1:A4:540:SER:HB2	2:B4:21:ARG:HH21	1.36	0.88
1:AG:540:SER:HB2	2:BG:21:ARG:HH21	1.37	0.88
3:C1:247:ARG:NH2	4:E2:79:LEU:O	2.07	0.88
4:E3:73:MET:HE1	4:E3:78:LEU:HG	1.56	0.88
1:AP:540:SER:HB2	2:BP:21:ARG:HH21	1.35	0.87
1:AJ:540:SER:HB2	2:BJ:21:ARG:HH21	1.36	0.87
2:BS:158:MET:SD	2:BT:214:VAL:HG13	2.14	0.87
3:CG:253:GLN:NE2	4:FH:105:LEU:O	2.07	0.87
1:AX:540:SER:HB2	2:BX:21:ARG:HH21	1.37	0.87
1:AV:540:SER:HB2	2:BV:21:ARG:HH21	1.37	0.87
4:EI:73:MET:HE1	4:EI:78:LEU:HG	1.56	0.86
4:E1:73:MET:HE1	4:E1:78:LEU:HG	1.58	0.85
4:F6:101:ILE:HG12	4:F6:106:ILE:HD11	1.57	0.85
2:B5:135:VAL:HG21	2:B6:193:MET:HE2	1.59	0.85
3:C3:246:TRP:NE1	4:E4:83:GLN:OE1	2.10	0.85
2:B1:158:MET:HG2	2:B2:214:VAL:HG13	1.59	0.85
4:DK:61:PRO:O	4:EK:102:ASN:ND2	2.10	0.84
4:FH:101:ILE:HG12	4:FH:106:ILE:HD11	1.58	0.84
3:C7:253:GLN:NE2	4:F8:105:LEU:O	2.11	0.84
4:EE:73:MET:HE1	4:EE:78:LEU:HG	1.59	0.84
2:BU:158:MET:HG2	2:BV:214:VAL:HG13	1.59	0.84
2:B2:158:MET:HG2	2:B3:214:VAL:HG13	1.58	0.83
1:A2:537:ARG:HA	2:B2:21:ARG:HH22	1.44	0.83
2:BD:158:MET:HG2	2:BE:214:VAL:HG13	1.59	0.83
4:D3:61:PRO:O	4:E3:102:ASN:ND2	2.12	0.82
1:AU:537:ARG:HA	2:BU:21:ARG:HH22	1.44	0.82
3:CL:258:GLU:OE1	4:DL:72:ARG:NH1	2.12	0.82
3:CY:255:GLN:HG2	4:DY:76:LYS:HG3	1.62	0.82
3:CS:255:GLN:HG2	4:DS:76:LYS:HG3	1.60	0.82
3:CB:253:GLN:NE2	4:FC:106:ILE:O	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:537:ARG:HA	2:BE:21:ARG:HH22	1.45	0.81
1:AM:537:ARG:HA	2:BM:21:ARG:HH22	1.45	0.81
4:DC:61:PRO:O	4:EC:102:ASN:ND2	2.12	0.81
3:CD:247:ARG:HH12	4:EE:79:LEU:HB2	1.44	0.81
1:AW:537:ARG:HA	2:BW:21:ARG:HH22	1.46	0.81
3:CB:249:ASN:HD22	4:FC:125:ILE:HD13	1.44	0.81
4:E9:72:ARG:HH12	4:F9:61:PRO:HB2	1.45	0.81
4:DT:61:PRO:O	4:ET:102:ASN:ND2	2.14	0.81
2:BV:103:THR:HB	2:BV:176:THR:HG22	1.62	0.81
1:A4:537:ARG:HA	2:B4:21:ARG:HH22	1.46	0.81
2:BQ:103:THR:HB	2:BQ:176:THR:HG22	1.62	0.81
1:AI:537:ARG:HA	2:BI:21:ARG:HH22	1.46	0.80
2:BD:103:THR:HB	2:BD:176:THR:HG22	1.63	0.80
4:E6:73:MET:HE1	4:E6:78:LEU:HG	1.63	0.80
2:BK:103:THR:HB	2:BK:176:THR:HG22	1.60	0.80
1:A5:537:ARG:HA	2:B5:21:ARG:HH22	1.45	0.80
1:AO:537:ARG:HA	2:BO:21:ARG:HH22	1.47	0.80
2:BC:103:THR:HB	2:BC:176:THR:HG22	1.63	0.80
4:ER:69:GLY:HA3	4:ER:89:LEU:HD23	1.63	0.80
4:ET:69:GLY:HA3	4:ET:89:LEU:HD23	1.62	0.80
2:BW:103:THR:HB	2:BW:176:THR:HG22	1.63	0.80
1:AF:537:ARG:HA	2:BF:21:ARG:HH22	1.46	0.80
1:AG:537:ARG:HA	2:BG:21:ARG:HH22	1.46	0.80
1:AQ:537:ARG:HA	2:BQ:21:ARG:HH22	1.47	0.80
2:BU:103:THR:HB	2:BU:176:THR:HG22	1.62	0.80
2:BF:103:THR:HB	2:BF:176:THR:HG22	1.63	0.80
1:AX:537:ARG:HA	2:BX:21:ARG:HH22	1.45	0.80
3:CL:219:LEU:HD12	3:CL:223:MET:HG2	1.63	0.80
1:AS:537:ARG:HA	2:BS:21:ARG:HH22	1.47	0.80
4:E7:61:PRO:HB2	4:F7:72:ARG:HH21	1.45	0.80
4:F7:101:ILE:HG12	4:F7:106:ILE:HD11	1.64	0.80
1:A1:537:ARG:HA	2:B1:21:ARG:HH22	1.47	0.79
3:C2:249:ASN:HB3	4:F3:125:ILE:HG21	1.62	0.79
2:B5:103:THR:HB	2:B5:176:THR:HG22	1.63	0.79
1:AB:537:ARG:HA	2:BB:21:ARG:HH22	1.47	0.79
1:AD:537:ARG:HA	2:BD:21:ARG:HH22	1.47	0.79
2:BT:158:MET:HE1	2:BU:218:VAL:HB	1.64	0.79
3:C4:219:LEU:HD12	3:C4:223:MET:HG2	1.63	0.79
1:AA:537:ARG:HA	2:BA:21:ARG:HH22	1.47	0.79
1:A3:537:ARG:HA	2:B3:21:ARG:HH22	1.48	0.79
2:B4:103:THR:HB	2:B4:176:THR:HG22	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C6:253:GLN:NE2	4:F7:105:LEU:O	2.15	0.79
1:AC:537:ARG:HA	2:BC:21:ARG:HH22	1.48	0.79
3:CK:249:ASN:HD22	4:FL:125:ILE:HD13	1.48	0.79
2:BX:103:THR:HB	2:BX:176:THR:HG22	1.64	0.79
4:ED:69:GLY:HA3	4:ED:89:LEU:HD23	1.64	0.79
4:EF:73:MET:HE1	4:EF:78:LEU:HG	1.65	0.79
2:BM:103:THR:HB	2:BM:176:THR:HG22	1.63	0.79
1:A6:537:ARG:HA	2:B6:21:ARG:HH22	1.47	0.79
4:F8:109:GLY:HA3	4:F8:122:ILE:HA	1.64	0.79
4:EI:69:GLY:HA3	4:EI:89:LEU:HD23	1.65	0.79
2:BN:103:THR:HB	2:BN:176:THR:HG22	1.63	0.79
4:EU:73:MET:HE1	4:EU:78:LEU:HG	1.64	0.79
2:BG:103:THR:HB	2:BG:176:THR:HG22	1.64	0.79
2:B2:103:THR:HB	2:B2:176:THR:HG22	1.63	0.78
2:BH:103:THR:HB	2:BH:176:THR:HG22	1.62	0.78
1:AK:537:ARG:HA	2:BK:21:ARG:HH22	1.48	0.78
1:AL:537:ARG:HA	2:BL:21:ARG:HH22	1.47	0.78
1:AP:537:ARG:HA	2:BP:21:ARG:HH22	1.46	0.78
2:B3:103:THR:HB	2:B3:176:THR:HG22	1.63	0.78
2:B6:103:THR:HB	2:B6:176:THR:HG22	1.64	0.78
1:A9:537:ARG:HA	2:B9:21:ARG:HH22	1.48	0.78
4:F6:110:GLU:OE2	4:F6:121:ARG:NH1	2.16	0.78
1:A7:537:ARG:HA	2:B7:21:ARG:HH22	1.47	0.78
2:B9:103:THR:HB	2:B9:176:THR:HG22	1.65	0.78
2:BL:103:THR:HB	2:BL:176:THR:HG22	1.63	0.78
4:EQ:69:GLY:HA3	4:EQ:89:LEU:HD23	1.63	0.78
2:BS:103:THR:HB	2:BS:176:THR:HG22	1.63	0.78
2:BT:103:THR:HB	2:BT:176:THR:HG22	1.62	0.78
3:CT:255:GLN:HG2	4:DT:76:LYS:HG3	1.65	0.78
4:F1:109:GLY:HA3	4:F1:122:ILE:HA	1.63	0.78
4:FN:110:GLU:OE2	4:FN:121:ARG:NH1	2.17	0.78
4:EU:69:GLY:HA3	4:EU:89:LEU:HD23	1.66	0.78
3:CW:249:ASN:HB3	4:FX:125:ILE:HG21	1.65	0.78
4:F2:110:GLU:OE2	4:F2:121:ARG:NH1	2.17	0.78
4:EC:69:GLY:HA3	4:EC:89:LEU:HD23	1.63	0.78
1:AH:537:ARG:HA	2:BH:21:ARG:HH22	1.48	0.78
1:AJ:537:ARG:HA	2:BJ:21:ARG:HH22	1.47	0.78
3:CE:219:LEU:HD12	3:CE:223:MET:HG2	1.65	0.78
2:BI:103:THR:HB	2:BI:176:THR:HG22	1.65	0.78
4:EV:69:GLY:HA3	4:EV:89:LEU:HD23	1.65	0.78
4:FX:110:GLU:OE2	4:FX:121:ARG:NH1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:103:THR:HB	2:B8:176:THR:HG22	1.65	0.78
2:BB:103:THR:HB	2:BB:176:THR:HG22	1.65	0.78
4:E1:69:GLY:HA3	4:E1:89:LEU:HD23	1.65	0.77
3:CB:255:GLN:OE1	3:CB:256:HIS:ND1	2.16	0.77
4:FD:110:GLU:OE2	4:FD:121:ARG:NH1	2.16	0.77
1:AT:537:ARG:HA	2:BT:21:ARG:HH22	1.47	0.77
1:AV:537:ARG:HA	2:BV:21:ARG:HH22	1.47	0.77
4:FF:110:GLU:OE2	4:FF:121:ARG:NH1	2.18	0.77
4:EO:69:GLY:HA3	4:EO:89:LEU:HD23	1.67	0.77
4:FW:110:GLU:OE2	4:FW:121:ARG:NH1	2.18	0.77
1:A8:537:ARG:HA	2:B8:21:ARG:HH22	1.49	0.77
2:BA:103:THR:HB	2:BA:176:THR:HG22	1.65	0.77
2:BE:103:THR:HB	2:BE:176:THR:HG22	1.65	0.77
2:BJ:103:THR:HB	2:BJ:176:THR:HG22	1.65	0.77
4:EX:69:GLY:HA3	4:EX:89:LEU:HD23	1.64	0.77
1:AY:537:ARG:HA	2:BY:21:ARG:HH22	1.49	0.77
4:FO:110:GLU:OE2	4:FO:121:ARG:NH1	2.18	0.77
4:FQ:109:GLY:HA3	4:FQ:122:ILE:HA	1.66	0.77
2:B7:103:THR:HB	2:B7:176:THR:HG22	1.65	0.77
4:F3:110:GLU:OE2	4:F3:121:ARG:NH1	2.17	0.77
4:E7:73:MET:HE1	4:E7:78:LEU:HG	1.66	0.77
4:FL:110:GLU:OE2	4:FL:121:ARG:NH1	2.17	0.77
2:BO:103:THR:HB	2:BO:176:THR:HG22	1.63	0.77
2:BR:103:THR:HB	2:BR:176:THR:HG22	1.65	0.77
4:E9:69:GLY:HA3	4:E9:89:LEU:HD23	1.65	0.77
4:EN:61:PRO:HB2	4:FN:72:ARG:HH21	1.50	0.77
2:BP:103:THR:HB	2:BP:176:THR:HG22	1.63	0.77
1:AR:537:ARG:HA	2:BR:21:ARG:HH22	1.48	0.77
4:FR:110:GLU:OE2	4:FR:121:ARG:NH1	2.18	0.77
4:ES:69:GLY:HA3	4:ES:89:LEU:HD23	1.67	0.77
4:FT:109:GLY:HA3	4:FT:122:ILE:HA	1.66	0.77
4:FY:110:GLU:OE2	4:FY:121:ARG:NH1	2.17	0.77
4:F7:110:GLU:OE2	4:F7:121:ARG:NH1	2.17	0.77
4:E1:61:PRO:HB2	4:F1:72:ARG:HH21	1.50	0.77
4:E7:69:GLY:HA3	4:E7:89:LEU:HD23	1.65	0.77
4:E9:61:PRO:HB2	4:F9:72:ARG:HH21	1.50	0.77
3:C4:255:GLN:HG2	4:D4:76:LYS:HG3	1.67	0.77
4:EG:69:GLY:HA3	4:EG:89:LEU:HD23	1.65	0.77
4:EK:69:GLY:HA3	4:EK:89:LEU:HD23	1.67	0.77
3:C3:255:GLN:HG2	4:D3:76:LYS:HG3	1.65	0.76
4:FT:110:GLU:OE2	4:FT:121:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FB:110:GLU:OE2	4:FB:121:ARG:NH1	2.18	0.76
2:BC:158:MET:HE1	2:BD:218:VAL:HB	1.67	0.76
4:EJ:69:GLY:HA3	4:EJ:89:LEU:HD23	1.68	0.76
1:AN:537:ARG:HA	2:BN:21:ARG:HH22	1.48	0.76
4:FP:109:GLY:HA3	4:FP:122:ILE:HA	1.68	0.76
4:FH:110:GLU:OE2	4:FH:121:ARG:NH1	2.18	0.76
4:EH:69:GLY:HA3	4:EH:89:LEU:HD23	1.67	0.76
4:FK:109:GLY:HA3	4:FK:122:ILE:HA	1.67	0.76
4:FK:110:GLU:OE2	4:FK:121:ARG:NH1	2.18	0.76
4:FS:110:GLU:OE2	4:FS:121:ARG:NH1	2.18	0.76
4:FU:110:GLU:OE2	4:FU:121:ARG:NH1	2.18	0.76
4:F5:110:GLU:OE2	4:F5:121:ARG:NH1	2.19	0.76
4:FN:109:GLY:HA3	4:FN:122:ILE:HA	1.68	0.76
4:F9:110:GLU:OE2	4:F9:121:ARG:NH1	2.19	0.76
4:FJ:110:GLU:OE2	4:FJ:121:ARG:NH1	2.19	0.76
4:FO:109:GLY:HA3	4:FO:122:ILE:HA	1.68	0.76
4:FP:110:GLU:OE2	4:FP:121:ARG:NH1	2.18	0.76
4:FR:109:GLY:HA3	4:FR:122:ILE:HA	1.67	0.76
4:FJ:109:GLY:HA3	4:FJ:122:ILE:HA	1.68	0.76
4:EB:69:GLY:HA3	4:EB:89:LEU:HD23	1.67	0.76
3:CS:255:GLN:OE1	3:CS:256:HIS:ND1	2.19	0.76
3:CW:255:GLN:HG2	4:DW:76:LYS:HG3	1.67	0.76
4:FA:110:GLU:OE2	4:FA:121:ARG:NH1	2.19	0.76
4:FB:101:ILE:HG23	4:FB:106:ILE:HG13	1.67	0.76
4:FM:110:GLU:OE2	4:FM:121:ARG:NH1	2.19	0.76
3:CV:219:LEU:HD12	3:CV:223:MET:HG2	1.65	0.76
2:B1:103:THR:HB	2:B1:176:THR:HG22	1.65	0.76
4:FH:109:GLY:HA3	4:FH:122:ILE:HA	1.68	0.76
4:F4:110:GLU:OE2	4:F4:121:ARG:NH1	2.19	0.75
4:EF:69:GLY:HA3	4:EF:89:LEU:HD23	1.68	0.75
4:EK:73:MET:HE1	4:EK:78:LEU:HG	1.67	0.75
3:CI:258:GLU:OE1	4:DI:72:ARG:NH1	2.19	0.75
4:EL:69:GLY:HA3	4:EL:89:LEU:HD23	1.67	0.75
4:FL:109:GLY:HA3	4:FL:122:ILE:HA	1.69	0.75
4:EO:61:PRO:HB2	4:FO:72:ARG:HH21	1.52	0.75
4:E6:69:GLY:HA3	4:E6:89:LEU:HD23	1.68	0.75
4:EU:61:PRO:HB2	4:FU:72:ARG:HH21	1.52	0.75
2:BY:103:THR:HB	2:BY:176:THR:HG22	1.66	0.75
4:F1:110:GLU:OE2	4:F1:121:ARG:NH1	2.20	0.75
4:E6:61:PRO:HB2	4:F6:72:ARG:HH21	1.50	0.75
4:FG:110:GLU:OE2	4:FG:121:ARG:NH1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:69:GLY:HA3	4:EN:89:LEU:HD23	1.68	0.75
4:F8:110:GLU:OE2	4:F8:121:ARG:NH1	2.19	0.75
4:EK:61:PRO:HB2	4:FK:72:ARG:HH21	1.50	0.75
4:E3:69:GLY:HA3	4:E3:89:LEU:HD23	1.68	0.74
3:C4:57:ILE:HD11	3:C4:169:TRP:HA	1.69	0.74
4:E4:69:GLY:HA3	4:E4:89:LEU:HD23	1.67	0.74
4:F6:109:GLY:HA3	4:F6:122:ILE:HA	1.67	0.74
4:EE:69:GLY:HA3	4:EE:89:LEU:HD23	1.69	0.74
3:CL:255:GLN:HG2	4:DL:76:LYS:HG3	1.69	0.74
4:FI:110:GLU:OE2	4:FI:121:ARG:NH1	2.21	0.74
3:C7:57:ILE:HD11	3:C7:169:TRP:HA	1.69	0.74
3:CK:255:GLN:HG2	4:DK:76:LYS:HG3	1.67	0.74
4:DN:67:GLU:HG3	4:DN:98:ASP:HB3	1.70	0.74
4:FQ:110:GLU:OE2	4:FQ:121:ARG:NH1	2.20	0.74
4:EW:69:GLY:HA3	4:EW:89:LEU:HD23	1.68	0.74
3:CC:255:GLN:HG2	4:DC:76:LYS:HG3	1.68	0.74
4:FE:110:GLU:OE2	4:FE:121:ARG:NH1	2.21	0.74
4:DL:67:GLU:HG3	4:DL:98:ASP:HB3	1.70	0.74
4:EM:69:GLY:HA3	4:EM:89:LEU:HD23	1.68	0.74
3:CO:249:ASN:HD22	4:FP:125:ILE:HD13	1.51	0.74
4:EP:69:GLY:HA3	4:EP:89:LEU:HD23	1.69	0.74
4:E2:69:GLY:HA3	4:E2:89:LEU:HD23	1.69	0.74
3:C3:57:ILE:HD11	3:C3:169:TRP:HA	1.69	0.74
3:C5:57:ILE:HD11	3:C5:169:TRP:HA	1.69	0.74
3:CA:57:ILE:HD11	3:CA:169:TRP:HA	1.69	0.74
3:CC:253:GLN:NE2	4:FD:106:ILE:O	2.15	0.74
4:DK:67:GLU:HG3	4:DK:98:ASP:HB3	1.70	0.74
2:BU:133:ILE:HA	2:BU:136:HIS:CE1	2.22	0.74
3:C1:57:ILE:HD11	3:C1:169:TRP:HA	1.69	0.74
3:C6:57:ILE:HD11	3:C6:169:TRP:HA	1.69	0.74
4:FV:110:GLU:OE2	4:FV:121:ARG:NH1	2.20	0.74
2:B5:158:MET:HG2	2:B6:214:VAL:HG13	1.70	0.74
4:E5:69:GLY:HA3	4:E5:89:LEU:HD23	1.68	0.74
2:BD:200:ALA:HB1	2:BD:233:MET:HB3	1.70	0.74
2:BG:200:ALA:HB1	2:BG:233:MET:HB3	1.70	0.74
4:DJ:67:GLU:HG3	4:DJ:98:ASP:HB3	1.70	0.74
3:C2:57:ILE:HD11	3:C2:169:TRP:HA	1.69	0.74
3:C9:57:ILE:HD11	3:C9:169:TRP:HA	1.69	0.74
3:CB:57:ILE:HD11	3:CB:169:TRP:HA	1.69	0.74
4:FC:110:GLU:OE2	4:FC:121:ARG:NH1	2.20	0.74
4:DO:67:GLU:HG3	4:DO:98:ASP:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:255:GLN:HG2	4:DP:76:LYS:HG3	1.68	0.74
4:DR:67:GLU:HG3	4:DR:98:ASP:HB3	1.70	0.74
3:CY:57:ILE:HD11	3:CY:169:TRP:HA	1.69	0.74
3:C8:57:ILE:HD11	3:C8:169:TRP:HA	1.69	0.74
4:E8:69:GLY:HA3	4:E8:89:LEU:HD23	1.70	0.74
3:CB:249:ASN:HB3	4:FC:125:ILE:HG21	1.68	0.74
3:CL:57:ILE:HD11	3:CL:169:TRP:HA	1.69	0.74
3:CM:57:ILE:HD11	3:CM:169:TRP:HA	1.69	0.74
3:CO:57:ILE:HD11	3:CO:169:TRP:HA	1.69	0.74
4:DQ:67:GLU:HG3	4:DQ:98:ASP:HB3	1.70	0.74
2:B8:200:ALA:HB1	2:B8:233:MET:HB3	1.70	0.74
3:CE:57:ILE:HD11	3:CE:169:TRP:HA	1.69	0.74
3:CP:57:ILE:HD11	3:CP:169:TRP:HA	1.69	0.74
2:BE:158:MET:HG2	2:BF:214:VAL:HG13	1.69	0.73
4:DI:67:GLU:HG3	4:DI:98:ASP:HB3	1.70	0.73
2:BJ:200:ALA:HB1	2:BJ:233:MET:HB3	1.69	0.73
3:CK:57:ILE:HD11	3:CK:169:TRP:HA	1.69	0.73
3:CN:57:ILE:HD11	3:CN:169:TRP:HA	1.69	0.73
3:CR:57:ILE:HD11	3:CR:169:TRP:HA	1.69	0.73
2:BS:200:ALA:HB1	2:BS:233:MET:HB3	1.69	0.73
4:DU:67:GLU:HG3	4:DU:98:ASP:HB3	1.70	0.73
3:CW:57:ILE:HD11	3:CW:169:TRP:HA	1.69	0.73
3:C7:260:GLU:OE2	4:D7:72:ARG:NH1	2.20	0.73
4:DC:67:GLU:HG3	4:DC:98:ASP:HB3	1.70	0.73
3:CD:57:ILE:HD11	3:CD:169:TRP:HA	1.69	0.73
4:EA:69:GLY:HA3	4:EA:89:LEU:HD23	1.69	0.73
2:BB:200:ALA:HB1	2:BB:233:MET:HB3	1.70	0.73
2:BH:200:ALA:HB1	2:BH:233:MET:HB3	1.69	0.73
3:CI:57:ILE:HD11	3:CI:169:TRP:HA	1.69	0.73
2:BO:158:MET:HG2	2:BP:214:VAL:HG13	1.68	0.73
3:CS:57:ILE:HD11	3:CS:169:TRP:HA	1.69	0.73
2:BG:243:ASP:OD2	2:BH:297:ARG:NH2	2.21	0.73
4:DH:67:GLU:HG3	4:DH:98:ASP:HB3	1.70	0.73
2:BI:200:ALA:HB1	2:BI:233:MET:HB3	1.70	0.73
2:BV:133:ILE:HA	2:BV:136:HIS:CE1	2.23	0.73
2:BF:200:ALA:HB1	2:BF:233:MET:HB3	1.70	0.73
3:CH:57:ILE:HD11	3:CH:169:TRP:HA	1.69	0.73
3:CJ:255:GLN:HG2	4:DJ:76:LYS:HG3	1.70	0.73
4:DP:67:GLU:HG3	4:DP:98:ASP:HB3	1.71	0.73
3:CQ:57:ILE:HD11	3:CQ:169:TRP:HA	1.69	0.73
4:DS:67:GLU:HG3	4:DS:98:ASP:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DT:67:GLU:HG3	4:DT:98:ASP:HB3	1.70	0.73
4:DW:67:GLU:HG3	4:DW:98:ASP:HB3	1.70	0.73
3:C7:253:GLN:NE2	4:F8:106:ILE:HA	2.03	0.73
4:DF:67:GLU:HG3	4:DF:98:ASP:HB3	1.70	0.73
2:BN:158:MET:HG2	2:BO:214:VAL:HG13	1.68	0.73
3:CO:253:GLN:NE2	4:FP:106:ILE:O	2.21	0.73
2:BP:200:ALA:HB1	2:BP:233:MET:HB3	1.69	0.73
3:CC:57:ILE:HD11	3:CC:169:TRP:HA	1.69	0.73
4:DE:67:GLU:HG3	4:DE:98:ASP:HB3	1.70	0.73
4:DG:67:GLU:HG3	4:DG:98:ASP:HB3	1.71	0.73
3:CI:260:GLU:OE2	4:DI:72:ARG:NH1	2.22	0.73
2:BK:200:ALA:HB1	2:BK:233:MET:HB3	1.69	0.73
4:DM:67:GLU:HG3	4:DM:98:ASP:HB3	1.71	0.73
4:EY:69:GLY:HA3	4:EY:89:LEU:HD23	1.71	0.73
3:C3:255:GLN:OE1	3:C3:256:HIS:ND1	2.22	0.73
2:B4:133:ILE:HA	2:B4:136:HIS:CE1	2.24	0.73
2:B4:200:ALA:HB1	2:B4:233:MET:HB3	1.69	0.73
3:CT:57:ILE:HD11	3:CT:169:TRP:HA	1.69	0.73
2:BW:158:MET:HG2	2:BX:214:VAL:HG13	1.69	0.73
3:CX:57:ILE:HD11	3:CX:169:TRP:HA	1.69	0.73
3:CP:255:GLN:OE1	3:CP:256:HIS:ND1	2.22	0.73
2:BT:200:ALA:HB1	2:BT:233:MET:HB3	1.70	0.73
3:CU:57:ILE:HD11	3:CU:169:TRP:HA	1.69	0.73
2:B7:200:ALA:HB1	2:B7:233:MET:HB3	1.71	0.73
2:BC:200:ALA:HB1	2:BC:233:MET:HB3	1.70	0.73
3:CJ:57:ILE:HD11	3:CJ:169:TRP:HA	1.69	0.73
4:DX:67:GLU:HG3	4:DX:98:ASP:HB3	1.69	0.73
2:BQ:158:MET:HG2	2:BR:214:VAL:HG13	1.69	0.72
2:BQ:200:ALA:HB1	2:BQ:233:MET:HB3	1.70	0.72
4:DV:67:GLU:HG3	4:DV:98:ASP:HB3	1.70	0.72
2:B2:251:LEU:HD13	2:B2:278:MET:HB3	1.71	0.72
3:C5:255:GLN:OE1	3:C5:256:HIS:ND1	2.21	0.72
4:D8:67:GLU:HG3	4:D8:98:ASP:HB3	1.70	0.72
3:CA:255:GLN:HG2	4:DA:76:LYS:HG3	1.71	0.72
4:DD:67:GLU:HG3	4:DD:98:ASP:HB3	1.70	0.72
2:BL:200:ALA:HB1	2:BL:233:MET:HB3	1.71	0.72
2:BO:200:ALA:HB1	2:BO:233:MET:HB3	1.69	0.72
3:CV:57:ILE:HD11	3:CV:169:TRP:HA	1.69	0.72
2:BA:200:ALA:HB1	2:BA:233:MET:HB3	1.71	0.72
3:CF:57:ILE:HD11	3:CF:169:TRP:HA	1.69	0.72
2:BH:158:MET:HG2	2:BI:214:VAL:HG13	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:251:LEU:HD13	2:BX:278:MET:HB3	1.72	0.72
2:B1:200:ALA:HB1	2:B1:233:MET:HB3	1.69	0.72
2:B2:200:ALA:HB1	2:B2:233:MET:HB3	1.71	0.72
4:D4:67:GLU:HG3	4:D4:98:ASP:HB3	1.70	0.72
4:E4:61:PRO:HB2	4:F4:72:ARG:HH21	1.52	0.72
3:C5:255:GLN:HG2	4:D5:76:LYS:HG3	1.71	0.72
2:B9:200:ALA:HB1	2:B9:233:MET:HB3	1.69	0.72
3:C9:255:GLN:OE1	3:C9:256:HIS:ND1	2.22	0.72
4:DB:67:GLU:HG3	4:DB:98:ASP:HB3	1.70	0.72
2:B7:158:MET:HG2	2:B8:214:VAL:HG13	1.70	0.72
4:DA:67:GLU:HG3	4:DA:98:ASP:HB3	1.70	0.72
3:CG:57:ILE:HD11	3:CG:169:TRP:HA	1.69	0.72
2:BM:200:ALA:HB1	2:BM:233:MET:HB3	1.70	0.72
2:BV:158:MET:HG2	2:BW:214:VAL:HG13	1.70	0.72
2:B4:158:MET:HG2	2:B5:214:VAL:HG13	1.71	0.72
2:B5:200:ALA:HB1	2:B5:233:MET:HB3	1.71	0.72
4:D9:67:GLU:HG3	4:D9:98:ASP:HB3	1.70	0.72
4:F9:101:ILE:HG23	4:F9:106:ILE:HG13	1.70	0.72
4:D2:67:GLU:HG3	4:D2:98:ASP:HB3	1.70	0.72
4:FF:101:ILE:HG23	4:FF:106:ILE:HG13	1.71	0.72
4:EG:74:THR:HA	4:FG:61:PRO:HA	1.71	0.72
2:BI:158:MET:HG2	2:BJ:214:VAL:HG13	1.72	0.72
2:BN:251:LEU:HD13	2:BN:278:MET:HB3	1.71	0.72
4:DY:67:GLU:HG3	4:DY:98:ASP:HB3	1.71	0.72
4:D6:67:GLU:HG3	4:D6:98:ASP:HB3	1.70	0.72
2:BN:200:ALA:HB1	2:BN:233:MET:HB3	1.70	0.72
4:D1:67:GLU:HG3	4:D1:98:ASP:HB3	1.70	0.72
3:C3:253:GLN:NE2	4:F4:106:ILE:O	2.21	0.72
4:E7:74:THR:HA	4:F7:61:PRO:HA	1.70	0.72
2:B9:146:LEU:HB3	2:BA:206:MET:HE2	1.72	0.72
2:BQ:133:ILE:HA	2:BQ:136:HIS:CE1	2.25	0.72
4:D3:67:GLU:HG3	4:D3:98:ASP:HB3	1.70	0.72
4:D7:67:GLU:HG3	4:D7:98:ASP:HB3	1.70	0.72
3:CM:255:GLN:HG2	4:DM:76:LYS:HG3	1.71	0.72
2:B3:200:ALA:HB1	2:B3:233:MET:HB3	1.71	0.71
4:D5:67:GLU:HG3	4:D5:98:ASP:HB3	1.70	0.71
2:B1:251:LEU:HD13	2:B1:278:MET:HB3	1.72	0.71
2:BE:200:ALA:HB1	2:BE:233:MET:HB3	1.71	0.71
2:BX:200:ALA:HB1	2:BX:233:MET:HB3	1.70	0.71
4:F8:101:ILE:HG12	4:F8:106:ILE:HD11	1.71	0.71
2:BK:101:ARG:HH22	2:BL:42:ALA:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:214:VAL:HG13	2:BY:158:MET:HG2	1.69	0.71
2:B4:251:LEU:HD13	2:B4:278:MET:HB3	1.71	0.71
4:EE:125:ILE:HG12	4:EE:126:ILE:HG12	1.72	0.71
4:FL:76:LYS:O	4:FL:80:ARG:NE	2.24	0.71
2:BW:200:ALA:HB1	2:BW:233:MET:HB3	1.71	0.71
3:C1:255:GLN:HG2	4:D1:76:LYS:HG3	1.72	0.71
4:FE:76:LYS:O	4:FE:80:ARG:NE	2.24	0.71
3:CK:258:GLU:OE1	4:DK:73:MET:N	2.22	0.71
4:FO:76:LYS:O	4:FO:80:ARG:NE	2.24	0.71
4:DR:61:PRO:O	4:ER:102:ASN:ND2	2.23	0.71
2:B6:200:ALA:HB1	2:B6:233:MET:HB3	1.71	0.71
4:EG:117:LYS:HD2	4:FG:89:LEU:O	1.90	0.71
4:FI:76:LYS:O	4:FI:80:ARG:NE	2.24	0.71
2:BR:12:ILE:HG12	2:BR:47:ILE:HD13	1.73	0.71
2:BT:251:LEU:HD13	2:BT:278:MET:HB3	1.71	0.71
4:FX:101:ILE:HG23	4:FX:106:ILE:HG13	1.71	0.71
3:C3:258:GLU:OE1	4:D3:73:MET:N	2.24	0.71
3:CG:255:GLN:OE1	3:CG:256:HIS:ND1	2.23	0.71
4:EJ:125:ILE:HG12	4:EJ:126:ILE:HG12	1.73	0.71
2:BN:12:ILE:HG12	2:BN:47:ILE:HD13	1.73	0.71
2:BY:200:ALA:HB1	2:BY:233:MET:HB3	1.70	0.71
3:C7:253:GLN:HE22	4:F8:106:ILE:HD13	1.55	0.71
3:CH:255:GLN:OE1	3:CH:256:HIS:ND1	2.22	0.71
3:CK:255:GLN:OE1	3:CK:256:HIS:ND1	2.23	0.71
2:BR:200:ALA:HB1	2:BR:233:MET:HB3	1.71	0.71
2:BV:200:ALA:HB1	2:BV:233:MET:HB3	1.72	0.71
2:BW:251:LEU:HD13	2:BW:278:MET:HB3	1.71	0.71
2:BG:251:LEU:HD13	2:BG:278:MET:HB3	1.71	0.71
4:EM:125:ILE:HG12	4:EM:126:ILE:HG12	1.73	0.71
2:BU:200:ALA:HB1	2:BU:233:MET:HB3	1.71	0.71
3:CU:255:GLN:HG2	4:DU:76:LYS:HG3	1.72	0.71
2:BV:12:ILE:HG12	2:BV:47:ILE:HD13	1.73	0.71
2:BJ:251:LEU:HD13	2:BJ:278:MET:HB3	1.72	0.71
4:FK:76:LYS:O	4:FK:80:ARG:NE	2.24	0.71
4:FR:76:LYS:O	4:FR:80:ARG:NE	2.24	0.71
4:EU:74:THR:HA	4:FU:61:PRO:HA	1.73	0.71
3:C2:255:GLN:HG2	4:D2:76:LYS:HG3	1.72	0.70
4:EG:125:ILE:HG12	4:EG:126:ILE:HG12	1.73	0.70
4:EI:125:ILE:HG12	4:EI:126:ILE:HG12	1.73	0.70
2:BK:158:MET:HG2	2:BL:214:VAL:HG13	1.72	0.70
4:FH:76:LYS:O	4:FH:80:ARG:NE	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FN:76:LYS:O	4:FN:80:ARG:NE	2.24	0.70
3:C9:255:GLN:HG2	4:D9:76:LYS:HG3	1.72	0.70
2:BL:12:ILE:HG12	2:BL:47:ILE:HD13	1.74	0.70
3:CN:255:GLN:HG2	4:DN:76:LYS:HG3	1.74	0.70
2:BP:12:ILE:HG12	2:BP:47:ILE:HD13	1.74	0.70
2:BS:139:ARG:HH21	2:BT:202:ILE:HG12	1.55	0.70
4:FB:76:LYS:O	4:FB:80:ARG:NE	2.24	0.70
2:BC:251:LEU:HD13	2:BC:278:MET:HB3	1.71	0.70
4:ED:125:ILE:HG12	4:ED:126:ILE:HG12	1.73	0.70
4:DH:76:LYS:HD3	4:DH:79:LEU:HD21	1.71	0.70
4:EL:125:ILE:HG12	4:EL:126:ILE:HG12	1.73	0.70
2:BR:139:ARG:HH21	2:BS:202:ILE:HG12	1.57	0.70
4:EB:125:ILE:HG12	4:EB:126:ILE:HG12	1.73	0.70
2:BH:12:ILE:HG12	2:BH:47:ILE:HD13	1.74	0.70
4:EH:125:ILE:HG12	4:EH:126:ILE:HG12	1.74	0.70
4:FQ:76:LYS:O	4:FQ:80:ARG:NE	2.24	0.70
3:C1:247:ARG:HH12	4:E2:79:LEU:HB2	1.56	0.70
2:B9:251:LEU:HD13	2:B9:278:MET:HB3	1.70	0.70
4:F6:76:LYS:O	4:F6:80:ARG:NE	2.24	0.70
4:F9:109:GLY:HA3	4:F9:122:ILE:HA	1.73	0.70
2:BA:12:ILE:HG12	2:BA:47:ILE:HD13	1.74	0.70
4:EB:74:THR:HA	4:FB:61:PRO:HA	1.74	0.70
4:FE:101:ILE:HG12	4:FE:106:ILE:HD11	1.74	0.70
2:BJ:12:ILE:HG12	2:BJ:47:ILE:HD13	1.73	0.70
4:EA:125:ILE:HG12	4:EA:126:ILE:HG12	1.73	0.70
3:CO:255:GLN:HG2	4:DO:76:LYS:HG3	1.74	0.70
2:BS:12:ILE:HG12	2:BS:47:ILE:HD13	1.74	0.70
4:F2:76:LYS:O	4:F2:80:ARG:NE	2.24	0.70
4:E9:125:ILE:HG12	4:E9:126:ILE:HG12	1.73	0.70
2:BD:12:ILE:HG12	2:BD:47:ILE:HD13	1.74	0.70
2:BT:12:ILE:HG12	2:BT:47:ILE:HD13	1.74	0.70
4:F7:101:ILE:HG23	4:F7:106:ILE:HG13	1.74	0.70
4:F8:76:LYS:O	4:F8:80:ARG:NE	2.24	0.70
4:DA:61:PRO:O	4:EA:102:ASN:ND2	2.25	0.70
3:CK:253:GLN:NE2	4:FL:106:ILE:O	2.24	0.70
2:BL:251:LEU:HD13	2:BL:278:MET:HB3	1.71	0.70
4:EQ:125:ILE:HG12	4:EQ:126:ILE:HG12	1.73	0.70
3:C1:253:GLN:NE2	4:F2:106:ILE:O	2.25	0.69
3:C3:260:GLU:OE2	4:D3:72:ARG:NH1	2.25	0.69
2:BI:12:ILE:HG12	2:BI:47:ILE:HD13	1.74	0.69
3:CJ:154:ILE:HA	3:CJ:157:MET:SD	2.32	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FT:76:LYS:O	4:FT:80:ARG:NE	2.24	0.69
2:BX:12:ILE:HG12	2:BX:47:ILE:HD13	1.73	0.69
4:FX:76:LYS:O	4:FX:80:ARG:NE	2.24	0.69
2:B1:12:ILE:HG12	2:B1:47:ILE:HD13	1.74	0.69
2:B3:158:MET:HG2	2:B4:214:VAL:HG13	1.72	0.69
3:CB:260:GLU:OE2	4:DB:72:ARG:NH1	2.25	0.69
2:BC:12:ILE:HG12	2:BC:47:ILE:HD13	1.74	0.69
3:CF:255:GLN:HG2	4:DF:76:LYS:HG3	1.74	0.69
3:CK:260:GLU:OE2	4:DK:72:ARG:NH1	2.25	0.69
2:BO:12:ILE:HG12	2:BO:47:ILE:HD13	1.75	0.69
4:EP:125:ILE:HG12	4:EP:126:ILE:HG12	1.73	0.69
4:F1:76:LYS:O	4:F1:80:ARG:NE	2.24	0.69
2:BF:158:MET:HG2	2:BG:214:VAL:HG13	1.73	0.69
3:CG:255:GLN:HG2	4:DG:76:LYS:HG3	1.74	0.69
2:BK:12:ILE:HG12	2:BK:47:ILE:HD13	1.74	0.69
2:BQ:12:ILE:HG12	2:BQ:47:ILE:HD13	1.74	0.69
3:CQ:255:GLN:HG2	4:DQ:76:LYS:HG3	1.74	0.69
2:BU:251:LEU:HD13	2:BU:278:MET:HB3	1.75	0.69
2:BW:12:ILE:HG12	2:BW:47:ILE:HD13	1.74	0.69
4:F3:76:LYS:O	4:F3:80:ARG:NE	2.24	0.69
4:F8:101:ILE:HG23	4:F8:106:ILE:HG13	1.73	0.69
2:BE:12:ILE:HG12	2:BE:47:ILE:HD13	1.75	0.69
4:ER:125:ILE:HG12	4:ER:126:ILE:HG12	1.73	0.69
2:BS:251:LEU:HD13	2:BS:278:MET:HB3	1.74	0.69
2:B6:251:LEU:HD13	2:B6:278:MET:HB3	1.72	0.69
4:F6:101:ILE:HG23	4:F6:106:ILE:HG13	1.74	0.69
4:FL:101:ILE:HG23	4:FL:106:ILE:HG13	1.75	0.69
4:FY:76:LYS:O	4:FY:80:ARG:NE	2.24	0.69
2:BH:330:TYR:HD1	2:BI:297:ARG:HH22	1.39	0.69
2:BP:251:LEU:HD13	2:BP:278:MET:HB3	1.75	0.69
4:ES:125:ILE:HG12	4:ES:126:ILE:HG12	1.73	0.69
2:BU:12:ILE:HG12	2:BU:47:ILE:HD13	1.74	0.69
2:B8:122:ILE:HG22	2:B8:130:ILE:HG12	1.75	0.69
4:F9:76:LYS:O	4:F9:80:ARG:NE	2.24	0.69
4:FD:101:ILE:HG23	4:FD:106:ILE:HG13	1.75	0.69
2:BG:12:ILE:HG12	2:BG:47:ILE:HD13	1.74	0.69
2:BG:158:MET:HE1	2:BH:218:VAL:HB	1.75	0.69
4:DG:134:ARG:O	4:DG:137:ARG:NH1	2.26	0.69
1:A3:540:SER:HB2	2:B3:21:ARG:NH2	2.08	0.69
4:F4:76:LYS:O	4:F4:80:ARG:NE	2.24	0.69
4:E5:125:ILE:HG12	4:E5:126:ILE:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C8:255:GLN:HG2	4:D8:76:LYS:HG3	1.74	0.69
4:EC:125:ILE:HG12	4:EC:126:ILE:HG12	1.74	0.69
2:BG:139:ARG:HH21	2:BH:202:ILE:HG12	1.58	0.69
4:FH:101:ILE:HG23	4:FH:106:ILE:HG13	1.75	0.69
4:EN:125:ILE:HG12	4:EN:126:ILE:HG12	1.75	0.69
2:BR:251:LEU:HD13	2:BR:278:MET:HB3	1.75	0.69
1:A4:540:SER:HB2	2:B4:21:ARG:NH2	2.08	0.69
2:BE:122:ILE:HG22	2:BE:130:ILE:HG12	1.75	0.69
4:E2:125:ILE:HG12	4:E2:126:ILE:HG12	1.73	0.69
4:E4:125:ILE:HG12	4:E4:126:ILE:HG12	1.73	0.69
2:B6:12:ILE:HG12	2:B6:47:ILE:HD13	1.75	0.69
3:CN:222:SER:HA	3:CN:225:GLU:HG2	1.75	0.69
4:EO:125:ILE:HG12	4:EO:126:ILE:HG12	1.75	0.69
4:EV:125:ILE:HG12	4:EV:126:ILE:HG12	1.73	0.69
2:B1:190:ARG:NH1	2:B1:191:SER:O	2.26	0.68
3:CI:255:GLN:HG2	4:DI:76:LYS:HG3	1.74	0.68
2:BM:251:LEU:HD13	2:BM:278:MET:HB3	1.75	0.68
3:CQ:320:LEU:HD11	4:FR:57:ILE:HD13	1.75	0.68
2:BS:122:ILE:HG22	2:BS:130:ILE:HG12	1.76	0.68
4:EU:125:ILE:HG12	4:EU:126:ILE:HG12	1.73	0.68
2:BV:251:LEU:HD13	2:BV:278:MET:HB3	1.75	0.68
4:FV:76:LYS:O	4:FV:80:ARG:NE	2.24	0.68
4:FW:76:LYS:O	4:FW:80:ARG:NE	2.24	0.68
1:AY:540:SER:HB2	2:BY:21:ARG:NH2	2.08	0.68
4:E1:125:ILE:HG12	4:E1:126:ILE:HG12	1.73	0.68
2:BF:122:ILE:HG22	2:BF:130:ILE:HG12	1.76	0.68
2:BH:122:ILE:HG22	2:BH:130:ILE:HG12	1.76	0.68
2:BJ:122:ILE:HG22	2:BJ:130:ILE:HG12	1.75	0.68
3:CJ:255:GLN:OE1	3:CJ:256:HIS:ND1	2.25	0.68
4:EK:125:ILE:HG12	4:EK:126:ILE:HG12	1.76	0.68
2:BL:101:ARG:HH22	2:BM:42:ALA:HB3	1.58	0.68
2:B5:122:ILE:HG22	2:B5:130:ILE:HG12	1.75	0.68
2:B6:158:MET:HG2	2:B7:214:VAL:HG13	1.74	0.68
2:BA:122:ILE:HG22	2:BA:130:ILE:HG12	1.76	0.68
3:CM:255:GLN:OE1	3:CM:256:HIS:ND1	2.26	0.68
4:EV:70:ARG:NH2	4:EV:98:ASP:OD2	2.26	0.68
4:EY:125:ILE:HG12	4:EY:126:ILE:HG12	1.74	0.68
2:BC:122:ILE:HG22	2:BC:130:ILE:HG12	1.76	0.68
3:CX:255:GLN:HG2	4:DX:76:LYS:HG3	1.73	0.68
2:B5:251:LEU:HD13	2:B5:278:MET:HB3	1.74	0.68
2:B7:251:LEU:HD13	2:B7:278:MET:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:253:GLN:NE2	4:FA:106:ILE:HA	2.08	0.68
2:BG:122:ILE:HG22	2:BG:130:ILE:HG12	1.76	0.68
2:BK:139:ARG:HH21	2:BL:202:ILE:HG12	1.59	0.68
2:BL:122:ILE:HG22	2:BL:130:ILE:HG12	1.76	0.68
3:C1:242:GLU:HB2	3:C1:246:TRP:HD1	1.57	0.68
2:B2:122:ILE:HG22	2:B2:130:ILE:HG12	1.76	0.68
2:B7:122:ILE:HG22	2:B7:130:ILE:HG12	1.75	0.68
1:AB:535:ARG:HH22	2:BB:60:GLU:HB2	1.59	0.68
2:BL:139:ARG:HH21	2:BM:202:ILE:HG12	1.59	0.68
2:BO:251:LEU:HD13	2:BO:278:MET:HB3	1.75	0.68
1:A7:540:SER:HB2	2:B7:21:ARG:NH2	2.08	0.68
2:B9:122:ILE:HG22	2:B9:130:ILE:HG12	1.76	0.68
3:C9:243:ASP:O	3:C9:247:ARG:HG2	1.93	0.68
4:FG:101:ILE:HG12	4:FG:106:ILE:HD11	1.76	0.68
4:FP:76:LYS:O	4:FP:80:ARG:NE	2.24	0.68
2:BR:122:ILE:HG22	2:BR:130:ILE:HG12	1.76	0.68
1:AB:540:SER:HB2	2:BB:21:ARG:NH2	2.08	0.68
2:BD:122:ILE:HG22	2:BD:130:ILE:HG12	1.76	0.68
2:BI:122:ILE:HG22	2:BI:130:ILE:HG12	1.76	0.68
2:BM:155:HIS:O	2:BM:158:MET:HG2	1.94	0.68
2:BN:122:ILE:HG22	2:BN:130:ILE:HG12	1.76	0.68
2:BQ:251:LEU:HD13	2:BQ:278:MET:HB3	1.75	0.68
1:AR:540:SER:HB2	2:BR:21:ARG:NH2	2.08	0.68
2:BY:122:ILE:HG22	2:BY:130:ILE:HG12	1.76	0.68
3:C3:249:ASN:HB3	4:F4:125:ILE:HG12	1.76	0.68
2:B8:158:MET:HG2	2:B9:214:VAL:HG13	1.74	0.68
4:F8:100:LEU:HG	4:F8:105:LEU:HA	1.76	0.68
2:BB:122:ILE:HG22	2:BB:130:ILE:HG12	1.76	0.68
2:BB:139:ARG:HH21	2:BC:202:ILE:HG12	1.59	0.68
4:FC:76:LYS:O	4:FC:80:ARG:NE	2.24	0.68
2:BK:133:ILE:HA	2:BK:136:HIS:CD2	2.28	0.68
2:BX:122:ILE:HG22	2:BX:130:ILE:HG12	1.76	0.68
1:AA:540:SER:HB2	2:BA:21:ARG:NH2	2.08	0.68
2:BE:251:LEU:HD13	2:BE:278:MET:HB3	1.74	0.68
2:BK:251:LEU:HD13	2:BK:278:MET:HB3	1.75	0.68
2:BO:122:ILE:HG22	2:BO:130:ILE:HG12	1.76	0.68
4:ET:61:PRO:HB2	4:FT:72:ARG:HH21	1.59	0.68
4:ET:125:ILE:HG12	4:ET:126:ILE:HG12	1.75	0.68
3:CX:249:ASN:HB3	4:FY:125:ILE:HG21	1.76	0.68
2:BY:251:LEU:HD13	2:BY:278:MET:HB3	1.75	0.68
2:B1:122:ILE:HG22	2:B1:130:ILE:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:540:SER:HB2	2:B6:21:ARG:NH2	2.08	0.67
3:CE:122:LEU:HD12	3:CE:215:PHE:HB3	1.77	0.67
2:B7:139:ARG:HH21	2:B8:202:ILE:HG12	1.60	0.67
4:E7:125:ILE:HG12	4:E7:126:ILE:HG12	1.75	0.67
2:BA:251:LEU:HD13	2:BA:278:MET:HB3	1.75	0.67
1:AC:540:SER:HB2	2:BC:21:ARG:NH2	2.08	0.67
2:BD:251:LEU:HD13	2:BD:278:MET:HB3	1.74	0.67
2:BF:251:LEU:HD13	2:BF:278:MET:HB3	1.75	0.67
4:FF:76:LYS:O	4:FF:80:ARG:NE	2.24	0.67
2:BH:251:LEU:HD13	2:BH:278:MET:HB3	1.74	0.67
1:AJ:540:SER:HB2	2:BJ:21:ARG:NH2	2.08	0.67
3:CM:122:LEU:HD12	3:CM:215:PHE:HB3	1.77	0.67
4:FS:76:LYS:O	4:FS:80:ARG:NE	2.24	0.67
4:E6:125:ILE:HG12	4:E6:126:ILE:HG12	1.75	0.67
4:D7:73:MET:SD	4:D7:78:LEU:HB3	2.35	0.67
2:BM:139:ARG:HH21	2:BN:202:ILE:HG12	1.59	0.67
3:CR:122:LEU:HD12	3:CR:215:PHE:HB3	1.77	0.67
3:CR:255:GLN:HG2	4:DR:76:LYS:HG3	1.75	0.67
4:EX:125:ILE:HG12	4:EX:126:ILE:HG12	1.75	0.67
2:B4:139:ARG:HH21	2:B5:202:ILE:HG12	1.60	0.67
3:CG:122:LEU:HD12	3:CG:215:PHE:HB3	1.77	0.67
1:AU:540:SER:HB2	2:BU:21:ARG:NH2	2.08	0.67
1:AV:540:SER:HB2	2:BV:21:ARG:NH2	2.09	0.67
2:B3:122:ILE:HG22	2:B3:130:ILE:HG12	1.76	0.67
2:B6:139:ARG:HH21	2:B7:202:ILE:HG12	1.60	0.67
3:CB:122:LEU:HD12	3:CB:215:PHE:HB3	1.77	0.67
3:CJ:122:LEU:HD12	3:CJ:215:PHE:HB3	1.77	0.67
2:B3:139:ARG:HH21	2:B4:202:ILE:HG12	1.60	0.67
2:B8:251:LEU:HD13	2:B8:278:MET:HB3	1.75	0.67
2:BB:251:LEU:HD13	2:BB:278:MET:HB3	1.75	0.67
3:CC:246:TRP:NE1	4:ED:83:GLN:OE1	2.27	0.67
2:BE:139:ARG:HH21	2:BF:202:ILE:HG12	1.60	0.67
2:BF:139:ARG:HH21	2:BG:202:ILE:HG12	1.60	0.67
2:BH:139:ARG:HH21	2:BI:202:ILE:HG12	1.60	0.67
1:AO:540:SER:HB2	2:BO:21:ARG:NH2	2.08	0.67
3:CO:122:LEU:HD12	3:CO:215:PHE:HB3	1.77	0.67
1:AQ:540:SER:HB2	2:BQ:21:ARG:NH2	2.08	0.67
2:BW:122:ILE:HG22	2:BW:130:ILE:HG12	1.76	0.67
2:B3:251:LEU:HD13	2:B3:278:MET:HB3	1.75	0.67
4:E8:125:ILE:HG12	4:E8:126:ILE:HG12	1.76	0.67
2:B9:101:ARG:HH22	2:BA:42:ALA:HB3	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:320:LEU:HD11	4:FD:57:ILE:HD13	1.76	0.67
2:BI:251:LEU:HD13	2:BI:278:MET:HB3	1.75	0.67
3:CL:122:LEU:HD12	3:CL:215:PHE:HB3	1.77	0.67
1:AM:540:SER:HB2	2:BM:21:ARG:NH2	2.08	0.67
2:BP:139:ARG:HH21	2:BQ:202:ILE:HG12	1.59	0.67
2:BT:122:ILE:HG22	2:BT:130:ILE:HG12	1.77	0.67
3:CU:122:LEU:HD12	3:CU:215:PHE:HB3	1.77	0.67
3:C8:122:LEU:HD12	3:C8:215:PHE:HB3	1.77	0.67
4:DF:61:PRO:O	4:EF:102:ASN:ND2	2.28	0.67
3:CH:122:LEU:HD12	3:CH:215:PHE:HB3	1.77	0.67
3:CT:320:LEU:HD11	4:FU:57:ILE:HD13	1.77	0.67
1:AD:540:SER:HB2	2:BD:21:ARG:NH2	2.08	0.67
3:CD:122:LEU:HD12	3:CD:215:PHE:HB3	1.77	0.67
1:AG:540:SER:HB2	2:BG:21:ARG:NH2	2.09	0.67
1:AH:518:LEU:O	1:AH:522:ARG:HG3	1.95	0.67
4:FH:64:LEU:HA	4:FH:101:ILE:HA	1.77	0.67
2:BN:139:ARG:HH21	2:BO:202:ILE:HG12	1.59	0.67
1:AP:540:SER:HB2	2:BP:21:ARG:NH2	2.08	0.67
3:CP:122:LEU:HD12	3:CP:215:PHE:HB3	1.77	0.67
2:BQ:132:THR:O	2:BQ:136:HIS:ND1	2.28	0.67
4:FG:107:ALA:HA	4:FG:126:ILE:HG12	1.76	0.67
1:AN:540:SER:HB2	2:BN:21:ARG:NH2	2.08	0.67
1:AP:535:ARG:HH22	2:BP:60:GLU:HB2	1.59	0.67
3:CR:272:LEU:HD23	4:DR:60:ILE:HB	1.76	0.67
1:AS:540:SER:HB2	2:BS:21:ARG:NH2	2.08	0.67
4:FU:127:THR:OG1	4:FU:130:GLU:OE1	2.13	0.67
1:AX:540:SER:HB2	2:BX:21:ARG:NH2	2.09	0.67
4:E3:125:ILE:HG12	4:E3:126:ILE:HG12	1.75	0.66
3:CB:258:GLU:OE1	4:DB:72:ARG:NH1	2.29	0.66
3:CC:260:GLU:OE2	4:DC:72:ARG:NH1	2.29	0.66
2:BD:139:ARG:HH21	2:BE:202:ILE:HG12	1.60	0.66
1:AE:535:ARG:HH22	2:BE:60:GLU:HB2	1.59	0.66
3:CQ:253:GLN:NE2	4:FR:106:ILE:O	2.28	0.66
3:CS:122:LEU:HD12	3:CS:215:PHE:HB3	1.77	0.66
4:E1:74:THR:HA	4:F1:61:PRO:HA	1.77	0.66
2:B2:139:ARG:HH21	2:B3:202:ILE:HG12	1.60	0.66
3:C5:122:LEU:HD12	3:C5:215:PHE:HB3	1.77	0.66
1:AI:540:SER:HB2	2:BI:21:ARG:NH2	2.08	0.66
3:CN:253:GLN:NE2	4:FO:106:ILE:O	2.27	0.66
4:EN:121:ARG:HH11	4:FN:86:VAL:HB	1.61	0.66
4:FS:127:THR:OG1	4:FS:130:GLU:OE1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:122:LEU:HD12	3:CX:215:PHE:HB3	1.77	0.66
3:C9:122:LEU:HD12	3:C9:215:PHE:HB3	1.77	0.66
4:FA:101:ILE:HG23	4:FA:106:ILE:HG13	1.77	0.66
4:FG:71:THR:HG22	4:FG:89:LEU:HA	1.76	0.66
4:FH:100:LEU:HG	4:FH:105:LEU:HA	1.78	0.66
2:BQ:139:ARG:HH21	2:BR:202:ILE:HG12	1.60	0.66
2:BW:139:ARG:HH21	2:BX:202:ILE:HG12	1.60	0.66
2:BY:12:ILE:HD13	2:BY:55:VAL:HG21	1.76	0.66
3:C2:122:LEU:HD12	3:C2:215:PHE:HB3	1.77	0.66
2:B8:46:GLN:NE2	2:B8:47:ILE:O	2.29	0.66
1:A9:540:SER:HB2	2:B9:21:ARG:NH2	2.08	0.66
3:CC:122:LEU:HD12	3:CC:215:PHE:HB3	1.77	0.66
1:AE:540:SER:HB2	2:BE:21:ARG:NH2	2.08	0.66
1:AF:540:SER:HB2	2:BF:21:ARG:NH2	2.09	0.66
4:EF:125:ILE:HG12	4:EF:126:ILE:HG12	1.78	0.66
1:AI:535:ARG:HH22	2:BI:60:GLU:HB2	1.61	0.66
1:AK:540:SER:HB2	2:BK:21:ARG:NH2	2.08	0.66
3:CK:122:LEU:HD12	3:CK:215:PHE:HB3	1.77	0.66
4:FM:101:ILE:HG23	4:FM:106:ILE:HG13	1.78	0.66
3:CT:122:LEU:HD12	3:CT:215:PHE:HB3	1.77	0.66
2:BV:139:ARG:HH21	2:BW:202:ILE:HG12	1.60	0.66
4:FW:127:THR:OG1	4:FW:130:GLU:OE1	2.14	0.66
2:BX:139:ARG:HH21	2:BY:202:ILE:HG12	1.60	0.66
4:EY:70:ARG:NH2	4:EY:98:ASP:OD2	2.27	0.66
3:C9:222:SER:HA	3:C9:225:GLU:HG2	1.78	0.66
3:CA:122:LEU:HD12	3:CA:215:PHE:HB3	1.77	0.66
3:CB:258:GLU:OE2	4:DB:73:MET:N	2.28	0.66
3:CI:122:LEU:HD12	3:CI:215:PHE:HB3	1.77	0.66
3:CQ:122:LEU:HD12	3:CQ:215:PHE:HB3	1.77	0.66
2:BA:139:ARG:HH21	2:BB:202:ILE:HG12	1.61	0.66
3:CJ:320:LEU:HD11	4:FK:57:ILE:HD13	1.77	0.66
3:CW:122:LEU:HD12	3:CW:215:PHE:HB3	1.77	0.66
4:DW:61:PRO:O	4:EW:102:ASN:ND2	2.28	0.66
3:C3:222:SER:HA	3:C3:225:GLU:HG2	1.78	0.66
3:CA:222:SER:HA	3:CA:225:GLU:HG2	1.78	0.66
4:EE:74:THR:HA	4:FE:61:PRO:HA	1.78	0.66
4:FG:100:LEU:HG	4:FG:105:LEU:HA	1.78	0.66
3:CL:320:LEU:HD11	4:FM:57:ILE:HD13	1.78	0.66
2:BU:134:LEU:HD21	2:BU:146:LEU:HD12	1.77	0.66
3:C6:122:LEU:HD12	3:C6:215:PHE:HB3	1.77	0.66
4:FC:101:ILE:HG23	4:FC:106:ILE:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:222:SER:HA	3:CM:225:GLU:HG2	1.78	0.66
2:BP:122:ILE:HG22	2:BP:130:ILE:HG12	1.78	0.66
3:CQ:222:SER:HA	3:CQ:225:GLU:HG2	1.78	0.66
1:AT:540:SER:HB2	2:BT:21:ARG:NH2	2.08	0.66
4:F1:125:ILE:HD13	3:CY:249:ASN:ND2	2.10	0.66
3:C4:320:LEU:HD11	4:F5:57:ILE:HD13	1.77	0.66
3:C6:253:GLN:NE2	4:F7:106:ILE:HA	2.10	0.66
3:C7:272:LEU:HD23	4:D7:60:ILE:HB	1.77	0.66
4:FB:108:GLN:HG3	4:FB:126:ILE:HD11	1.78	0.66
4:FC:108:GLN:HG3	4:FC:126:ILE:HD11	1.76	0.66
2:BK:122:ILE:HG22	2:BK:130:ILE:HG12	1.78	0.66
1:A2:535:ARG:HH22	2:B2:60:GLU:HB2	1.61	0.66
1:A2:540:SER:HB2	2:B2:21:ARG:NH2	2.09	0.66
2:B6:122:ILE:HG22	2:B6:130:ILE:HG12	1.77	0.66
3:CF:122:LEU:HD12	3:CF:215:PHE:HB3	1.77	0.66
2:BI:139:ARG:HH21	2:BJ:202:ILE:HG12	1.60	0.66
3:CN:122:LEU:HD12	3:CN:215:PHE:HB3	1.77	0.66
1:AO:549:LEU:HD12	2:BP:46:GLN:HB3	1.78	0.66
3:CS:253:GLN:HE22	4:FT:125:ILE:HB	1.59	0.66
1:AU:549:LEU:HD12	2:BV:46:GLN:HB3	1.78	0.66
2:BY:12:ILE:HG12	2:BY:47:ILE:HD13	1.78	0.66
3:CY:122:LEU:HD12	3:CY:215:PHE:HB3	1.77	0.66
2:B5:139:ARG:HH21	2:B6:202:ILE:HG12	1.61	0.65
3:C7:122:LEU:HD12	3:C7:215:PHE:HB3	1.77	0.65
2:BM:122:ILE:HG22	2:BM:130:ILE:HG12	1.79	0.65
2:BO:139:ARG:HH21	2:BP:202:ILE:HG12	1.60	0.65
1:AX:549:LEU:HD12	2:BY:46:GLN:HB3	1.77	0.65
3:C1:122:LEU:HD12	3:C1:215:PHE:HB3	1.77	0.65
3:C3:122:LEU:HD12	3:C3:215:PHE:HB3	1.77	0.65
3:C6:96:LEU:HD11	3:C6:117:VAL:HG21	1.79	0.65
2:BD:139:ARG:HH22	2:BE:201:GLU:HB2	1.61	0.65
3:CF:253:GLN:NE2	4:FG:105:LEU:O	2.29	0.65
4:DG:61:PRO:O	4:EG:102:ASN:ND2	2.28	0.65
4:FI:107:ALA:HA	4:FI:126:ILE:HG12	1.78	0.65
3:CQ:260:GLU:OE2	4:DQ:72:ARG:NH1	2.29	0.65
2:BU:132:THR:O	2:BU:136:HIS:ND1	2.29	0.65
3:CV:122:LEU:HD12	3:CV:215:PHE:HB3	1.77	0.65
3:CW:255:GLN:OE1	3:CW:256:HIS:ND1	2.29	0.65
2:BX:158:MET:HE1	2:BY:218:VAL:HB	1.78	0.65
3:C4:122:LEU:HD12	3:C4:215:PHE:HB3	1.77	0.65
2:BA:146:LEU:HD22	2:BB:206:MET:SD	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:222:SER:HA	3:CD:225:GLU:HG2	1.78	0.65
3:CK:222:SER:HA	3:CK:225:GLU:HG2	1.78	0.65
3:CO:272:LEU:HD23	4:DO:60:ILE:HB	1.78	0.65
3:CU:222:SER:HA	3:CU:225:GLU:HG2	1.78	0.65
2:B1:202:ILE:HG12	2:BY:139:ARG:HH21	1.61	0.65
1:AH:540:SER:HB2	2:BH:21:ARG:NH2	2.08	0.65
3:CX:242:GLU:HB2	3:CX:246:TRP:CD1	2.31	0.65
2:B1:139:ARG:HH21	2:B2:202:ILE:HG12	1.61	0.65
2:B4:132:THR:O	2:B4:136:HIS:ND1	2.28	0.65
4:D7:61:PRO:O	4:E7:102:ASN:ND2	2.29	0.65
3:CA:272:LEU:HD23	4:DA:60:ILE:HB	1.77	0.65
3:CE:96:LEU:HD11	3:CE:117:VAL:HG21	1.79	0.65
4:FE:101:ILE:HG23	4:FE:106:ILE:HG13	1.78	0.65
2:BJ:139:ARG:HH21	2:BK:202:ILE:HG12	1.60	0.65
3:CP:260:GLU:OE2	4:DP:72:ARG:NH1	2.29	0.65
3:CT:260:GLU:OE2	4:DT:72:ARG:NH1	2.29	0.65
3:C8:63:ARG:HH22	3:C9:188:PHE:HB3	1.60	0.65
4:E8:70:ARG:NH2	4:E8:98:ASP:OD2	2.28	0.65
2:BQ:134:LEU:HD21	2:BQ:146:LEU:HD12	1.79	0.65
4:ES:97:LEU:O	4:ES:109:GLY:N	2.30	0.65
1:AT:549:LEU:HD12	2:BU:46:GLN:HB3	1.79	0.65
1:AW:540:SER:HB2	2:BW:21:ARG:NH2	2.08	0.65
1:AW:549:LEU:HD12	2:BX:46:GLN:HB3	1.78	0.65
4:E3:70:ARG:NH2	4:E3:98:ASP:OD2	2.29	0.65
2:B4:134:LEU:HD21	2:B4:146:LEU:HD12	1.77	0.65
3:C4:249:ASN:HB3	4:F5:125:ILE:HG21	1.77	0.65
2:B9:46:GLN:NE2	2:B9:47:ILE:O	2.30	0.65
2:BF:139:ARG:HH22	2:BG:201:GLU:HB2	1.61	0.65
3:CG:272:LEU:HD23	4:DG:60:ILE:HB	1.79	0.65
4:EO:97:LEU:O	4:EO:109:GLY:N	2.30	0.65
2:B1:46:GLN:HB3	1:AY:549:LEU:HD12	1.79	0.65
3:CA:96:LEU:HD11	3:CA:117:VAL:HG21	1.79	0.65
3:CA:256:HIS:HE1	4:FB:104:TYR:CZ	2.15	0.65
3:CF:253:GLN:NE2	4:FG:106:ILE:HA	2.12	0.65
2:B2:139:ARG:HH22	2:B3:201:GLU:HB2	1.62	0.65
1:A5:540:SER:HB2	2:B5:21:ARG:NH2	2.08	0.65
4:E6:74:THR:HA	4:F6:61:PRO:HA	1.78	0.65
2:BC:139:ARG:HH22	2:BD:201:GLU:HB2	1.61	0.65
1:AL:540:SER:HB2	2:BL:21:ARG:NH2	2.09	0.65
2:BL:139:ARG:HH22	2:BM:201:GLU:HB2	1.61	0.65
1:AN:549:LEU:HD12	2:BO:46:GLN:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DO:61:PRO:O	4:EO:102:ASN:ND2	2.30	0.65
1:AV:549:LEU:HD12	2:BW:46:GLN:HB3	1.79	0.65
2:BV:131:ALA:O	2:BV:135:VAL:HG22	1.97	0.65
3:C2:96:LEU:HD11	3:C2:117:VAL:HG21	1.79	0.65
3:C2:320:LEU:HD11	4:F3:57:ILE:HD13	1.77	0.65
3:C9:96:LEU:HD12	3:C9:97:PRO:HD2	1.79	0.65
3:C9:260:GLU:OE2	4:D9:72:ARG:NH1	2.30	0.65
4:EA:70:ARG:NH2	4:EA:98:ASP:OD2	2.27	0.65
4:EH:65:THR:HG22	4:FH:70:ARG:HG3	1.79	0.65
1:AI:549:LEU:HD12	2:BJ:46:GLN:HB3	1.79	0.65
3:CM:249:ASN:HB3	4:FN:125:ILE:HG21	1.78	0.65
3:CO:96:LEU:HD12	3:CO:97:PRO:HD2	1.79	0.65
2:BU:139:ARG:HH21	2:BV:202:ILE:HG12	1.61	0.65
2:BX:139:ARG:HH22	2:BY:201:GLU:HB2	1.61	0.65
3:C3:246:TRP:HZ3	4:F4:125:ILE:HD13	1.62	0.64
2:B4:46:GLN:NE2	2:B4:47:ILE:O	2.30	0.64
2:BC:139:ARG:HH21	2:BD:202:ILE:HG12	1.61	0.64
3:CD:255:GLN:HG2	4:DD:76:LYS:HG3	1.79	0.64
2:BN:139:ARG:HH22	2:BO:201:GLU:HB2	1.61	0.64
3:CW:96:LEU:HD12	3:CW:97:PRO:HD2	1.79	0.64
1:A1:540:SER:HB2	2:B1:21:ARG:NH2	2.08	0.64
3:C4:96:LEU:HD12	3:C4:97:PRO:HD2	1.79	0.64
4:E4:97:LEU:O	4:E4:109:GLY:N	2.29	0.64
3:C5:96:LEU:HD12	3:C5:97:PRO:HD2	1.79	0.64
3:C6:96:LEU:HD12	3:C6:97:PRO:HD2	1.79	0.64
4:F7:100:LEU:HG	4:F7:105:LEU:HA	1.79	0.64
3:C9:96:LEU:HD11	3:C9:117:VAL:HG21	1.80	0.64
3:CD:96:LEU:HD11	3:CD:117:VAL:HG21	1.80	0.64
3:CY:96:LEU:HD12	3:CY:97:PRO:HD2	1.80	0.64
2:B2:46:GLN:NE2	2:B2:47:ILE:O	2.30	0.64
3:C4:96:LEU:HD11	3:C4:117:VAL:HG21	1.79	0.64
2:B7:136:HIS:CD2	2:B8:193:MET:HG3	2.32	0.64
1:AC:549:LEU:HD12	2:BD:46:GLN:HB3	1.79	0.64
3:CC:96:LEU:HD11	3:CC:117:VAL:HG21	1.80	0.64
4:EE:65:THR:HG22	4:FE:70:ARG:HG3	1.80	0.64
4:FE:100:LEU:HG	4:FE:105:LEU:HA	1.79	0.64
4:EF:65:THR:HG22	4:FF:70:ARG:HG3	1.79	0.64
3:CG:96:LEU:HD12	3:CG:97:PRO:HD2	1.79	0.64
1:AP:549:LEU:HD12	2:BQ:46:GLN:HB3	1.79	0.64
3:CQ:96:LEU:HD12	3:CQ:97:PRO:HD2	1.79	0.64
1:AS:549:LEU:HD12	2:BT:46:GLN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:139:ARG:HH21	2:BU:202:ILE:HG12	1.60	0.64
3:CT:249:ASN:HD22	4:FU:125:ILE:HG21	1.61	0.64
2:BY:46:GLN:NE2	2:BY:47:ILE:O	2.30	0.64
2:B2:107:ILE:HD11	2:B2:136:HIS:CE1	2.33	0.64
3:C3:253:GLN:OE1	4:F4:125:ILE:HG13	1.97	0.64
3:C8:96:LEU:HD12	3:C8:97:PRO:HD2	1.79	0.64
4:EA:97:LEU:O	4:EA:109:GLY:N	2.30	0.64
3:CE:249:ASN:HB3	4:FF:125:ILE:HG21	1.80	0.64
2:BH:139:ARG:HH22	2:BI:201:GLU:HB2	1.61	0.64
4:EY:65:THR:HG22	4:FY:70:ARG:HG3	1.79	0.64
3:C1:96:LEU:HD11	3:C1:117:VAL:HG21	1.79	0.64
3:C5:96:LEU:HD11	3:C5:117:VAL:HG21	1.80	0.64
4:E6:97:LEU:O	4:E6:109:GLY:N	2.30	0.64
4:EB:97:LEU:O	4:EB:109:GLY:N	2.29	0.64
2:BF:46:GLN:NE2	2:BF:47:ILE:O	2.31	0.64
1:AH:549:LEU:HD12	2:BI:46:GLN:HB3	1.79	0.64
1:AM:549:LEU:HD12	2:BN:46:GLN:HB3	1.79	0.64
3:CV:96:LEU:HD11	3:CV:117:VAL:HG21	1.79	0.64
4:EW:65:THR:HG22	4:FW:70:ARG:HG3	1.79	0.64
4:D4:61:PRO:O	4:E4:102:ASN:ND2	2.31	0.64
1:A8:540:SER:HB2	2:B8:21:ARG:NH2	2.08	0.64
4:E8:65:THR:HG22	4:F8:70:ARG:HG3	1.79	0.64
4:DJ:61:PRO:O	4:EJ:102:ASN:ND2	2.31	0.64
4:FL:101:ILE:HG12	4:FL:106:ILE:HD11	1.79	0.64
2:BM:46:GLN:NE2	2:BM:47:ILE:O	2.31	0.64
3:CM:96:LEU:HD12	3:CM:97:PRO:HD2	1.79	0.64
4:EW:125:ILE:HG12	4:EW:126:ILE:HG12	1.78	0.64
3:C1:96:LEU:HD12	3:C1:97:PRO:HD2	1.80	0.64
2:B3:139:ARG:HH22	2:B4:201:GLU:HB2	1.62	0.64
4:E5:97:LEU:O	4:E5:109:GLY:N	2.30	0.64
3:CG:96:LEU:HD11	3:CG:117:VAL:HG21	1.80	0.64
4:EI:65:THR:HG22	4:FI:70:ARG:HG3	1.79	0.64
4:DL:61:PRO:O	4:EL:102:ASN:ND2	2.31	0.64
2:B3:46:GLN:NE2	2:B3:47:ILE:O	2.31	0.64
4:E5:74:THR:HA	4:F5:61:PRO:HA	1.80	0.64
3:C8:96:LEU:HD11	3:C8:117:VAL:HG21	1.80	0.64
3:CA:96:LEU:HD12	3:CA:97:PRO:HD2	1.80	0.64
4:EB:65:THR:HG22	4:FB:70:ARG:HG3	1.79	0.64
1:AD:549:LEU:HD12	2:BE:46:GLN:HB3	1.79	0.64
3:CI:96:LEU:HD12	3:CI:97:PRO:HD2	1.80	0.64
1:AJ:549:LEU:HD12	2:BK:46:GLN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EP:65:THR:HG22	4:FP:70:ARG:HG3	1.78	0.64
3:CY:96:LEU:HD11	3:CY:117:VAL:HG21	1.80	0.64
4:F4:127:THR:OG1	4:F4:130:GLU:OE1	2.14	0.64
3:C7:96:LEU:HD11	3:C7:117:VAL:HG21	1.80	0.64
4:E7:97:LEU:O	4:E7:109:GLY:N	2.30	0.64
4:E8:97:LEU:O	4:E8:109:GLY:N	2.30	0.64
4:EA:65:THR:HG22	4:FA:70:ARG:HG3	1.79	0.64
3:CB:96:LEU:HD12	3:CB:97:PRO:HD2	1.80	0.64
4:EC:65:THR:HG22	4:FC:70:ARG:HG3	1.79	0.64
1:AK:549:LEU:HD12	2:BL:46:GLN:HB3	1.79	0.64
3:CK:272:LEU:HD23	4:DK:60:ILE:HB	1.78	0.64
1:AQ:549:LEU:HD12	2:BR:46:GLN:HB3	1.79	0.64
4:ES:65:THR:HG22	4:FS:70:ARG:HG3	1.79	0.64
4:FU:76:LYS:O	4:FU:80:ARG:NE	2.30	0.64
3:C2:96:LEU:HD12	3:C2:97:PRO:HD2	1.80	0.64
4:F6:100:LEU:HG	4:F6:105:LEU:HA	1.79	0.64
3:C7:96:LEU:HD12	3:C7:97:PRO:HD2	1.80	0.64
3:CB:96:LEU:HD11	3:CB:117:VAL:HG21	1.80	0.64
3:CF:96:LEU:HD12	3:CF:97:PRO:HD2	1.80	0.64
3:CF:253:GLN:NE2	4:FG:106:ILE:HD13	2.10	0.64
1:AG:549:LEU:HD12	2:BH:46:GLN:HB3	1.80	0.64
3:CH:96:LEU:HD11	3:CH:117:VAL:HG21	1.80	0.64
3:CJ:96:LEU:HD11	3:CJ:117:VAL:HG21	1.80	0.64
4:DJ:74:THR:OG1	4:DJ:77:GLU:OE1	2.15	0.64
3:CK:96:LEU:HD12	3:CK:97:PRO:HD2	1.80	0.64
4:EK:65:THR:HG22	4:FK:70:ARG:HG3	1.79	0.64
3:CL:96:LEU:HD12	3:CL:97:PRO:HD2	1.80	0.64
4:FP:101:ILE:HG23	4:FP:106:ILE:HG13	1.80	0.64
4:ET:65:THR:HG22	4:FT:70:ARG:HG3	1.79	0.64
3:CU:96:LEU:HD11	3:CU:117:VAL:HG21	1.80	0.64
3:CW:96:LEU:HD11	3:CW:117:VAL:HG21	1.80	0.64
4:E1:65:THR:HG22	4:F1:70:ARG:HG3	1.79	0.63
1:A9:549:LEU:HD12	2:BA:46:GLN:HB3	1.79	0.63
2:BB:46:GLN:NE2	2:BB:47:ILE:O	2.31	0.63
2:BC:146:LEU:HD22	2:BD:206:MET:SD	2.38	0.63
3:CD:96:LEU:HD12	3:CD:97:PRO:HD2	1.81	0.63
3:CE:96:LEU:HD12	3:CE:97:PRO:HD2	1.80	0.63
4:EE:97:LEU:O	4:EE:109:GLY:N	2.29	0.63
3:CP:96:LEU:HD12	3:CP:97:PRO:HD2	1.80	0.63
2:BS:139:ARG:HH22	2:BT:201:GLU:HB2	1.63	0.63
3:CV:255:GLN:HG2	4:DV:76:LYS:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F2:101:ILE:HG23	4:F2:106:ILE:HG13	1.79	0.63
3:C3:96:LEU:HD11	3:C3:117:VAL:HG21	1.81	0.63
2:B4:146:LEU:HD22	2:B5:206:MET:SD	2.38	0.63
4:F4:101:ILE:HG23	4:F4:106:ILE:HG13	1.79	0.63
3:CH:96:LEU:HD12	3:CH:97:PRO:HD2	1.81	0.63
3:CI:96:LEU:HD11	3:CI:117:VAL:HG21	1.80	0.63
4:EJ:65:THR:HG22	4:FJ:70:ARG:HG3	1.79	0.63
4:FL:74:THR:OG1	4:FL:77:GLU:OE1	2.14	0.63
2:BO:139:ARG:HH22	2:BP:201:GLU:HB2	1.63	0.63
3:CQ:249:ASN:ND2	4:FR:125:ILE:HD13	2.13	0.63
3:CR:96:LEU:HD12	3:CR:97:PRO:HD2	1.81	0.63
3:CS:96:LEU:HD12	3:CS:97:PRO:HD2	1.80	0.63
3:CU:96:LEU:HD12	3:CU:97:PRO:HD2	1.80	0.63
2:BW:139:ARG:HH22	2:BX:201:GLU:HB2	1.63	0.63
3:CX:96:LEU:HD11	3:CX:117:VAL:HG21	1.80	0.63
4:E3:97:LEU:O	4:E3:109:GLY:N	2.30	0.63
4:E5:65:THR:HG22	4:F5:70:ARG:HG3	1.79	0.63
2:B8:139:ARG:HH22	2:B9:201:GLU:HB2	1.63	0.63
2:BH:107:ILE:HD11	2:BH:136:HIS:CE1	2.33	0.63
3:CH:260:GLU:OE2	4:DH:72:ARG:NH1	2.30	0.63
4:EH:70:ARG:NH2	4:EH:98:ASP:OD2	2.27	0.63
4:DI:61:PRO:O	4:EI:102:ASN:ND2	2.31	0.63
2:BO:107:ILE:HD11	2:BO:136:HIS:CE1	2.34	0.63
4:FP:127:THR:OG1	4:FP:130:GLU:OE1	2.16	0.63
2:BQ:146:LEU:HD22	2:BR:206:MET:SD	2.38	0.63
1:AR:549:LEU:HD12	2:BS:46:GLN:HB3	1.79	0.63
4:FR:127:THR:OG1	4:FR:130:GLU:OE1	2.17	0.63
3:CT:96:LEU:HD12	3:CT:97:PRO:HD2	1.81	0.63
2:BU:131:ALA:HB1	2:BU:161:ILE:HD11	1.80	0.63
3:CV:96:LEU:HD12	3:CV:97:PRO:HD2	1.81	0.63
3:CX:96:LEU:HD12	3:CX:97:PRO:HD2	1.81	0.63
4:EX:65:THR:HG22	4:FX:70:ARG:HG3	1.79	0.63
4:D1:61:PRO:O	4:E1:102:ASN:ND2	2.31	0.63
4:E2:97:LEU:O	4:E2:109:GLY:N	2.30	0.63
2:B3:107:ILE:HD11	2:B3:136:HIS:CE1	2.33	0.63
4:E3:65:THR:HG22	4:F3:70:ARG:HG3	1.79	0.63
4:ED:65:THR:HG22	4:FD:70:ARG:HG3	1.80	0.63
2:BF:146:LEU:HD22	2:BG:206:MET:SD	2.39	0.63
4:EF:74:THR:HA	4:FF:61:PRO:HA	1.80	0.63
3:CG:253:GLN:HE22	4:FH:106:ILE:HD13	1.62	0.63
4:EG:65:THR:HG22	4:FG:70:ARG:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:74:THR:OG1	4:DI:77:GLU:OE1	2.16	0.63
4:EN:65:THR:HG22	4:FN:70:ARG:HG3	1.79	0.63
3:CO:260:GLU:OE2	4:DO:72:ARG:NH1	2.31	0.63
4:FQ:127:THR:OG1	4:FQ:130:GLU:OE1	2.17	0.63
3:CR:96:LEU:HD11	3:CR:117:VAL:HG21	1.80	0.63
1:A5:549:LEU:HD12	2:B6:46:GLN:HB3	1.79	0.63
2:B5:46:GLN:NE2	2:B5:47:ILE:O	2.31	0.63
3:C9:185:GLN:HB2	3:C9:188:PHE:CD2	2.34	0.63
4:E9:65:THR:HG22	4:F9:70:ARG:HG3	1.80	0.63
2:BD:146:LEU:HD22	2:BE:206:MET:SD	2.39	0.63
3:CF:96:LEU:HD11	3:CF:117:VAL:HG21	1.80	0.63
2:BH:146:LEU:HD22	2:BI:206:MET:SD	2.39	0.63
2:BI:146:LEU:HD22	2:BJ:206:MET:SD	2.39	0.63
3:CJ:96:LEU:HD12	3:CJ:97:PRO:HD2	1.81	0.63
2:BL:194:GLY:O	2:BL:198:THR:OG1	2.16	0.63
4:EL:65:THR:HG22	4:FL:70:ARG:HG3	1.80	0.63
3:CN:96:LEU:HD12	3:CN:97:PRO:HD2	1.81	0.63
4:EQ:72:ARG:NH2	4:FQ:62:VAL:O	2.31	0.63
4:DW:134:ARG:O	4:DW:137:ARG:NH1	2.32	0.63
4:DX:74:THR:OG1	4:DX:77:GLU:OE1	2.16	0.63
4:E9:97:LEU:O	4:E9:109:GLY:N	2.31	0.63
3:CC:96:LEU:HD12	3:CC:97:PRO:HD2	1.81	0.63
4:FE:105:LEU:HD21	4:FE:126:ILE:HG21	1.81	0.63
4:EF:97:LEU:O	4:EF:109:GLY:N	2.30	0.63
2:BH:251:LEU:HA	2:BH:254:VAL:HG22	1.81	0.63
3:CH:255:GLN:HG2	4:DH:76:LYS:HG3	1.80	0.63
2:BI:251:LEU:HA	2:BI:254:VAL:HG22	1.81	0.63
2:BK:146:LEU:HD22	2:BL:206:MET:SD	2.39	0.63
3:CN:96:LEU:HD11	3:CN:117:VAL:HG21	1.80	0.63
4:DS:134:ARG:O	4:DS:137:ARG:NH1	2.32	0.63
2:B1:146:LEU:HD22	2:B2:206:MET:SD	2.39	0.63
4:E1:97:LEU:O	4:E1:109:GLY:N	2.30	0.63
4:E4:65:THR:HG22	4:F4:70:ARG:HG3	1.79	0.63
4:E6:65:THR:HG22	4:F6:70:ARG:HG3	1.79	0.63
2:B7:146:LEU:HD22	2:B8:206:MET:SD	2.39	0.63
4:F9:108:GLN:HG3	4:F9:126:ILE:HD11	1.81	0.63
4:FD:74:THR:OG1	4:FD:77:GLU:OE1	2.14	0.63
4:FI:127:THR:OG1	4:FI:130:GLU:OE1	2.17	0.63
3:CK:96:LEU:HD11	3:CK:117:VAL:HG21	1.80	0.63
4:FK:127:THR:OG1	4:FK:130:GLU:OE1	2.17	0.63
2:BM:158:MET:SD	2:BN:214:VAL:HG13	2.38	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:146:LEU:HD22	2:BO:206:MET:SD	2.39	0.63
4:EO:65:THR:HG22	4:FO:70:ARG:HG3	1.79	0.63
3:CS:96:LEU:HD11	3:CS:117:VAL:HG21	1.80	0.63
3:CT:96:LEU:HD11	3:CT:117:VAL:HG21	1.80	0.63
2:BW:146:LEU:HD22	2:BX:206:MET:SD	2.39	0.63
4:E2:65:THR:HG22	4:F2:70:ARG:HG3	1.80	0.63
3:C3:96:LEU:HD12	3:C3:97:PRO:HD2	1.81	0.63
4:E7:65:THR:HG22	4:F7:70:ARG:HG3	1.79	0.63
3:CB:242:GLU:HA	3:CB:246:TRP:CE3	2.33	0.63
4:FF:127:THR:OG1	4:FF:130:GLU:OE1	2.17	0.63
3:CG:249:ASN:HB3	4:FH:125:ILE:HG21	1.81	0.63
4:FG:127:THR:OG1	4:FG:130:GLU:OE1	2.17	0.63
2:BK:139:ARG:HH22	2:BL:201:GLU:HB2	1.63	0.63
4:EU:65:THR:HG22	4:FU:70:ARG:HG3	1.80	0.63
2:BX:158:MET:CE	2:BY:218:VAL:HB	2.28	0.63
2:BB:139:ARG:HH22	2:BC:201:GLU:HB2	1.64	0.63
2:BB:251:LEU:HA	2:BB:254:VAL:HG22	1.81	0.63
4:FJ:127:THR:OG1	4:FJ:130:GLU:OE1	2.17	0.63
2:BM:251:LEU:HA	2:BM:254:VAL:HG22	1.81	0.63
3:CM:96:LEU:HD11	3:CM:117:VAL:HG21	1.80	0.63
2:BN:107:ILE:HD11	2:BN:136:HIS:CE1	2.33	0.63
2:BO:251:LEU:HA	2:BO:254:VAL:HG22	1.81	0.63
3:CR:260:GLU:OE2	4:DR:72:ARG:NH1	2.32	0.63
2:BV:146:LEU:HD22	2:BW:206:MET:SD	2.39	0.63
4:FV:127:THR:OG1	4:FV:130:GLU:OE1	2.17	0.63
2:B2:146:LEU:HD22	2:B3:206:MET:SD	2.39	0.62
1:A4:549:LEU:HD12	2:B5:46:GLN:HB3	1.80	0.62
3:C6:255:GLN:HG2	4:D6:76:LYS:HG3	1.79	0.62
4:E9:70:ARG:NH2	4:E9:98:ASP:OD2	2.31	0.62
3:CB:246:TRP:CH2	4:EC:83:GLN:HG2	2.33	0.62
2:BE:146:LEU:HD22	2:BF:206:MET:SD	2.39	0.62
2:BI:194:GLY:O	2:BI:198:THR:OG1	2.16	0.62
2:BL:107:ILE:HD11	2:BL:136:HIS:CE1	2.33	0.62
3:CL:96:LEU:HD11	3:CL:117:VAL:HG21	1.80	0.62
2:BM:203:ILE:HD12	2:BM:214:VAL:HG11	1.81	0.62
3:CM:260:GLU:OE2	4:DM:72:ARG:NH1	2.32	0.62
3:CQ:96:LEU:HD11	3:CQ:117:VAL:HG21	1.80	0.62
2:BT:146:LEU:HD22	2:BU:206:MET:SD	2.39	0.62
4:FW:70:ARG:HH22	4:FW:134:ARG:HG3	1.64	0.62
2:BX:107:ILE:HD11	2:BX:136:HIS:NE2	2.14	0.62
2:B1:139:ARG:HH22	2:B2:201:GLU:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:201:GLU:HB2	2:BY:139:ARG:HH22	1.64	0.62
4:D2:74:THR:OG1	4:D2:77:GLU:OE1	2.18	0.62
4:F3:70:ARG:HH22	4:F3:134:ARG:HG3	1.64	0.62
1:A4:535:ARG:HH22	2:B4:60:GLU:HB2	1.64	0.62
4:F4:70:ARG:HH22	4:F4:134:ARG:HG3	1.64	0.62
4:D5:61:PRO:O	4:E5:102:ASN:ND2	2.32	0.62
4:D6:61:PRO:O	4:E6:102:ASN:ND2	2.32	0.62
2:B7:139:ARG:HH22	2:B8:201:GLU:HB2	1.64	0.62
4:F8:70:ARG:HH22	4:F8:134:ARG:HG3	1.65	0.62
4:FA:127:THR:OG1	4:FA:130:GLU:OE1	2.17	0.62
1:AB:549:LEU:HD12	2:BC:46:GLN:HB3	1.79	0.62
2:BD:251:LEU:HA	2:BD:254:VAL:HG22	1.81	0.62
2:BG:158:MET:CE	2:BH:218:VAL:HB	2.29	0.62
4:DG:74:THR:OG1	4:DG:77:GLU:OE1	2.17	0.62
2:BH:47:ILE:HD12	2:BH:52:LEU:HB3	1.80	0.62
2:BK:194:GLY:O	2:BK:198:THR:OG1	2.17	0.62
2:BM:146:LEU:HD22	2:BN:206:MET:SD	2.39	0.62
4:DM:104:TYR:HD2	4:EM:60:ILE:HD13	1.65	0.62
4:EM:61:PRO:HB2	4:FM:72:ARG:HH22	1.64	0.62
4:EM:65:THR:HG22	4:FM:70:ARG:HG3	1.80	0.62
2:BO:146:LEU:HD22	2:BP:206:MET:SD	2.39	0.62
4:FO:101:ILE:HG23	4:FO:106:ILE:HG13	1.81	0.62
4:EY:97:LEU:O	4:EY:109:GLY:N	2.30	0.62
4:D1:74:THR:OG1	4:D1:77:GLU:OE1	2.17	0.62
4:E2:70:ARG:NH2	4:E2:98:ASP:OD2	2.30	0.62
2:B5:139:ARG:HH22	2:B6:201:GLU:HB2	1.64	0.62
4:FD:76:LYS:O	4:FD:80:ARG:NE	2.31	0.62
2:BF:107:ILE:HD11	2:BF:136:HIS:CE1	2.34	0.62
4:FH:74:THR:OG1	4:FH:77:GLU:OE1	2.14	0.62
4:FO:127:THR:OG1	4:FO:130:GLU:OE1	2.18	0.62
4:EV:65:THR:HG22	4:FV:70:ARG:HG3	1.80	0.62
4:EV:97:LEU:O	4:EV:109:GLY:N	2.29	0.62
2:BX:146:LEU:HD22	2:BY:206:MET:SD	2.39	0.62
4:D7:74:THR:H	4:D7:77:GLU:CD	2.02	0.62
2:BA:139:ARG:HH22	2:BB:201:GLU:HB2	1.63	0.62
2:BA:251:LEU:HA	2:BA:254:VAL:HG22	1.81	0.62
4:EC:97:LEU:O	4:EC:109:GLY:N	2.31	0.62
4:FD:70:ARG:HH22	4:FD:134:ARG:HG3	1.65	0.62
4:EE:70:ARG:NH2	4:EE:98:ASP:OD2	2.29	0.62
2:BG:139:ARG:HH22	2:BH:201:GLU:HB2	1.63	0.62
4:DH:61:PRO:O	4:EH:102:ASN:ND2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:70:ARG:HH22	4:FI:134:ARG:HG3	1.65	0.62
4:EK:74:THR:HA	4:FK:61:PRO:HA	1.80	0.62
4:DN:61:PRO:O	4:EN:102:ASN:ND2	2.32	0.62
3:CO:96:LEU:HD11	3:CO:117:VAL:HG21	1.80	0.62
2:BQ:131:ALA:HB1	2:BQ:161:ILE:HD11	1.82	0.62
4:ER:65:THR:HG22	4:FR:70:ARG:HG3	1.80	0.62
4:F1:70:ARG:HH22	4:F1:134:ARG:HG3	1.65	0.62
2:B5:146:LEU:HD22	2:B6:206:MET:SD	2.39	0.62
2:B6:139:ARG:HH22	2:B7:201:GLU:HB2	1.64	0.62
2:B9:139:ARG:HH22	2:BA:201:GLU:HB2	1.65	0.62
4:FB:70:ARG:HH22	4:FB:134:ARG:HG3	1.65	0.62
3:CC:272:LEU:HD23	4:DC:60:ILE:HB	1.81	0.62
4:FF:108:GLN:HG3	4:FF:126:ILE:HD11	1.82	0.62
2:BQ:139:ARG:HH22	2:BR:201:GLU:HB2	1.64	0.62
4:EQ:65:THR:HG22	4:FQ:70:ARG:HG3	1.80	0.62
2:BS:251:LEU:HA	2:BS:254:VAL:HG22	1.81	0.62
4:ES:70:ARG:NH2	4:ES:98:ASP:OD2	2.29	0.62
2:BT:131:ALA:HB1	2:BT:161:ILE:HD11	1.81	0.62
3:CV:249:ASN:HD22	4:FW:125:ILE:HG21	1.64	0.62
3:CW:260:GLU:OE2	4:DW:72:ARG:NH1	2.32	0.62
2:B4:139:ARG:HH22	2:B5:201:GLU:HB2	1.64	0.62
2:B9:199:ALA:O	2:B9:203:ILE:HG12	1.99	0.62
3:CA:260:GLU:OE2	4:DA:72:ARG:NH1	2.33	0.62
4:EB:70:ARG:NH2	4:EB:98:ASP:OD2	2.29	0.62
4:FC:127:THR:OG1	4:FC:130:GLU:OE1	2.18	0.62
4:EF:70:ARG:NH2	4:EF:98:ASP:OD2	2.29	0.62
4:EH:97:LEU:O	4:EH:109:GLY:N	2.30	0.62
4:FL:127:THR:OG1	4:FL:130:GLU:OE1	2.18	0.62
2:BP:139:ARG:HH22	2:BQ:201:GLU:HB2	1.62	0.62
2:BR:136:HIS:CD2	2:BS:193:MET:HG3	2.35	0.62
2:BU:146:LEU:HD22	2:BV:206:MET:SD	2.38	0.62
1:AV:535:ARG:HH22	2:BV:60:GLU:HB2	1.63	0.62
4:EW:97:LEU:O	4:EW:109:GLY:N	2.30	0.62
4:F2:70:ARG:HH22	4:F2:134:ARG:HG3	1.64	0.62
2:B6:146:LEU:HD22	2:B7:206:MET:SD	2.39	0.62
2:BB:146:LEU:HD22	2:BC:206:MET:SD	2.39	0.62
4:ED:97:LEU:O	4:ED:109:GLY:N	2.31	0.62
2:BF:251:LEU:HA	2:BF:254:VAL:HG22	1.81	0.62
4:EG:72:ARG:HH12	4:FG:61:PRO:CB	2.11	0.62
4:DH:64:LEU:HA	4:DH:101:ILE:HG22	1.82	0.62
2:BP:251:LEU:HA	2:BP:254:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:96:LEU:HD11	3:CP:117:VAL:HG21	1.80	0.62
4:DP:61:PRO:O	4:EP:102:ASN:ND2	2.32	0.62
4:EQ:72:ARG:HH22	4:FQ:62:VAL:N	1.96	0.62
2:BS:47:ILE:HD12	2:BS:52:LEU:HB3	1.81	0.62
4:FS:70:ARG:HH22	4:FS:134:ARG:HG3	1.65	0.62
2:BU:139:ARG:HH22	2:BV:201:GLU:HB2	1.65	0.62
4:EU:97:LEU:O	4:EU:109:GLY:N	2.29	0.62
4:FV:70:ARG:HH22	4:FV:134:ARG:HG3	1.64	0.62
4:EW:70:ARG:NH2	4:EW:98:ASP:OD2	2.29	0.62
2:B3:146:LEU:HD22	2:B4:206:MET:SD	2.39	0.62
3:C5:149:THR:HG22	3:C5:152:ARG:HH22	1.65	0.62
3:C6:253:GLN:HE22	4:F7:106:ILE:HD13	1.65	0.62
2:B8:136:HIS:CD2	2:B9:193:MET:HG3	2.35	0.62
4:FE:70:ARG:HH22	4:FE:134:ARG:HG3	1.65	0.62
4:FG:76:LYS:O	4:FG:80:ARG:NE	2.31	0.62
2:BI:139:ARG:HH22	2:BJ:201:GLU:HB2	1.64	0.62
4:EI:97:LEU:O	4:EI:109:GLY:N	2.30	0.62
3:CN:249:ASN:ND2	4:FO:125:ILE:HD13	2.15	0.62
4:FO:108:GLN:HG3	4:FO:126:ILE:HD11	1.80	0.62
2:BP:47:ILE:HD12	2:BP:52:LEU:HB3	1.82	0.62
4:DR:102:ASN:ND2	4:ER:61:PRO:O	2.33	0.62
4:F5:70:ARG:HH22	4:F5:134:ARG:HG3	1.65	0.62
1:A6:549:LEU:HD12	2:B7:46:GLN:HB3	1.81	0.62
2:B7:251:LEU:HA	2:B7:254:VAL:HG22	1.81	0.62
4:DB:61:PRO:O	4:EB:102:ASN:ND2	2.33	0.62
1:AF:549:LEU:HD12	2:BG:46:GLN:HB3	1.79	0.62
3:CF:255:GLN:OE1	3:CF:256:HIS:ND1	2.32	0.62
3:CN:260:GLU:OE2	4:DN:72:ARG:NH1	2.33	0.62
3:CO:249:ASN:ND2	4:FP:125:ILE:HG21	2.14	0.62
4:DS:61:PRO:O	4:ES:102:ASN:ND2	2.33	0.62
2:BU:251:LEU:HA	2:BU:254:VAL:HG22	1.81	0.62
2:BV:139:ARG:HH22	2:BW:201:GLU:HB2	1.64	0.62
4:DY:61:PRO:O	4:EY:102:ASN:ND2	2.33	0.62
2:B5:251:LEU:HA	2:B5:254:VAL:HG22	1.81	0.62
4:D8:61:PRO:O	4:E8:102:ASN:ND2	2.32	0.62
4:EC:83:GLN:NE2	4:FC:123:THR:O	2.32	0.62
4:DD:102:ASN:ND2	4:ED:61:PRO:O	2.33	0.62
4:EG:70:ARG:NH2	4:EG:98:ASP:OD2	2.30	0.62
2:BM:107:ILE:HD11	2:BM:136:HIS:CE1	2.35	0.62
4:FM:127:THR:OG1	4:FM:130:GLU:OE1	2.18	0.62
2:BR:251:LEU:HA	2:BR:254:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FR:101:ILE:HG23	4:FR:106:ILE:HG13	1.82	0.62
2:BU:194:GLY:O	2:BU:198:THR:OG1	2.18	0.62
4:DV:61:PRO:O	4:EV:102:ASN:ND2	2.33	0.62
4:DX:61:PRO:O	4:EX:102:ASN:ND2	2.32	0.62
2:B1:206:MET:SD	2:BY:146:LEU:HD22	2.39	0.61
3:C3:154:ILE:HA	3:C3:157:MET:SD	2.40	0.61
2:B5:131:ALA:HB1	2:B5:161:ILE:HD11	1.82	0.61
4:E8:73:MET:SD	4:E8:77:GLU:HB2	2.40	0.61
4:EJ:70:ARG:NH2	4:EJ:98:ASP:OD2	2.28	0.61
4:DM:61:PRO:O	4:EM:102:ASN:ND2	2.33	0.61
4:EN:97:LEU:O	4:EN:109:GLY:N	2.29	0.61
2:BO:47:ILE:HD12	2:BO:52:LEU:HB3	1.81	0.61
2:BP:158:MET:SD	2:BQ:214:VAL:HG13	2.39	0.61
2:BQ:47:ILE:HD12	2:BQ:52:LEU:HB3	1.82	0.61
2:BR:139:ARG:HH22	2:BS:201:GLU:HB2	1.63	0.61
3:CS:249:ASN:ND2	4:FT:125:ILE:HD13	2.15	0.61
2:BT:158:MET:CE	2:BU:218:VAL:HB	2.29	0.61
4:FT:70:ARG:HH22	4:FT:134:ARG:HG3	1.65	0.61
2:BV:134:LEU:HD21	2:BV:146:LEU:HD12	1.82	0.61
2:BY:251:LEU:HA	2:BY:254:VAL:HG22	1.81	0.61
4:F6:108:GLN:HG3	4:F6:126:ILE:HD11	1.82	0.61
4:F7:76:LYS:O	4:F7:80:ARG:NE	2.31	0.61
4:EG:97:LEU:O	4:EG:109:GLY:N	2.31	0.61
4:FJ:76:LYS:O	4:FJ:80:ARG:NE	2.31	0.61
3:CK:154:ILE:HA	3:CK:157:MET:SD	2.40	0.61
4:FK:70:ARG:HH22	4:FK:134:ARG:HG3	1.64	0.61
4:EL:97:LEU:O	4:EL:109:GLY:N	2.29	0.61
4:EP:70:ARG:NH2	4:EP:98:ASP:OD2	2.29	0.61
4:FP:70:ARG:HH22	4:FP:134:ARG:HG3	1.65	0.61
4:FR:74:THR:OG1	4:FR:77:GLU:OE1	2.13	0.61
2:BT:47:ILE:HD12	2:BT:52:LEU:HB3	1.82	0.61
4:FW:101:ILE:HG23	4:FW:106:ILE:HG13	1.82	0.61
3:C3:272:LEU:HD23	4:D3:60:ILE:HB	1.82	0.61
3:C6:260:GLU:OE2	4:D6:72:ARG:NH1	2.33	0.61
2:B8:139:ARG:HH21	2:B9:202:ILE:HG12	1.65	0.61
2:B8:158:MET:HE1	2:B9:218:VAL:HB	1.82	0.61
4:FC:105:LEU:HD21	4:FC:126:ILE:HG21	1.82	0.61
2:BE:47:ILE:HD12	2:BE:52:LEU:HB3	1.82	0.61
2:BK:251:LEU:HA	2:BK:254:VAL:HG22	1.81	0.61
2:BM:14:LEU:HD23	2:BM:17:ILE:HD11	1.82	0.61
3:CO:149:THR:HG22	3:CO:152:ARG:HH22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EO:70:ARG:NH2	4:EO:98:ASP:OD2	2.29	0.61
2:BQ:101:ARG:HH22	2:BR:42:ALA:HB3	1.64	0.61
2:BT:251:LEU:HA	2:BT:254:VAL:HG22	1.83	0.61
3:CV:260:GLU:OE2	4:DV:72:ARG:NH1	2.33	0.61
2:B6:47:ILE:HD12	2:B6:52:LEU:HB3	1.82	0.61
4:FA:76:LYS:O	4:FA:80:ARG:NE	2.31	0.61
4:FB:127:THR:OG1	4:FB:130:GLU:OE1	2.19	0.61
2:BE:251:LEU:HA	2:BE:254:VAL:HG22	1.81	0.61
4:DF:134:ARG:O	4:DF:137:ARG:NH1	2.33	0.61
2:BJ:139:ARG:HH22	2:BK:201:GLU:HB2	1.64	0.61
4:EM:97:LEU:O	4:EM:109:GLY:N	2.29	0.61
4:DR:64:LEU:HA	4:DR:101:ILE:HG22	1.83	0.61
2:BS:194:GLY:O	2:BS:198:THR:OG1	2.18	0.61
2:BT:139:ARG:HH22	2:BU:201:GLU:HB2	1.64	0.61
2:BU:122:ILE:HG22	2:BU:130:ILE:HG12	1.82	0.61
3:CU:154:ILE:HA	3:CU:157:MET:SD	2.40	0.61
4:FX:70:ARG:HH22	4:FX:134:ARG:HG3	1.65	0.61
2:B8:251:LEU:HA	2:B8:254:VAL:HG22	1.81	0.61
1:AA:549:LEU:HD12	2:BB:46:GLN:HB3	1.82	0.61
4:FC:70:ARG:HH22	4:FC:134:ARG:HG3	1.65	0.61
3:CD:253:GLN:NE2	4:FE:106:ILE:HD13	2.12	0.61
1:AE:549:LEU:HD12	2:BF:46:GLN:HB3	1.82	0.61
4:FF:70:ARG:HH22	4:FF:134:ARG:HG3	1.66	0.61
4:FG:101:ILE:HG23	4:FG:106:ILE:HG13	1.83	0.61
4:FG:105:LEU:HD21	4:FG:126:ILE:HG21	1.82	0.61
4:EJ:97:LEU:O	4:EJ:109:GLY:N	2.30	0.61
2:BP:107:ILE:HD11	2:BP:136:HIS:NE2	2.16	0.61
2:BP:261:ILE:HG23	2:BP:296:VAL:HG11	1.82	0.61
2:BQ:122:ILE:HG22	2:BQ:130:ILE:HG12	1.82	0.61
2:BR:47:ILE:HD12	2:BR:52:LEU:HB3	1.82	0.61
4:F1:54:ILE:HG13	4:F1:55:ASP:H	1.65	0.61
1:A3:549:LEU:HD12	2:B4:46:GLN:HB3	1.81	0.61
4:F6:70:ARG:HH22	4:F6:134:ARG:HG3	1.65	0.61
2:BC:251:LEU:HA	2:BC:254:VAL:HG22	1.82	0.61
4:DF:104:TYR:HD2	4:EF:60:ILE:HD13	1.66	0.61
4:FH:70:ARG:HH22	4:FH:134:ARG:HG3	1.66	0.61
4:DK:134:ARG:O	4:DK:137:ARG:NH1	2.33	0.61
2:BL:47:ILE:HD12	2:BL:52:LEU:HB3	1.82	0.61
2:BL:146:LEU:HD22	2:BM:206:MET:SD	2.39	0.61
4:FL:70:ARG:HH22	4:FL:134:ARG:HG3	1.66	0.61
2:BM:139:ARG:HH22	2:BN:201:GLU:HB2	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FO:70:ARG:HH22	4:FO:134:ARG:HG3	1.65	0.61
4:FQ:70:ARG:HH22	4:FQ:134:ARG:HG3	1.64	0.61
4:ET:72:ARG:HH22	4:FT:62:VAL:N	1.98	0.61
4:EX:97:LEU:O	4:EX:109:GLY:N	2.31	0.61
3:CY:149:THR:HG22	3:CY:152:ARG:HH22	1.65	0.61
4:FY:70:ARG:HH22	4:FY:134:ARG:HG3	1.65	0.61
4:D2:61:PRO:O	4:E2:102:ASN:ND2	2.33	0.61
4:E2:74:THR:HA	4:F2:61:PRO:HA	1.82	0.61
2:B7:46:GLN:NE2	2:B7:47:ILE:O	2.34	0.61
3:C9:253:GLN:HE22	4:FA:106:ILE:HD13	1.65	0.61
4:DH:102:ASN:ND2	4:EH:61:PRO:O	2.34	0.61
2:BI:38:SER:HA	2:BI:41:MET:HE1	1.82	0.61
4:DJ:134:ARG:HA	4:DJ:137:ARG:HE	1.65	0.61
3:CK:149:THR:HG22	3:CK:152:ARG:HH22	1.66	0.61
4:FM:70:ARG:HH22	4:FM:134:ARG:HG3	1.65	0.61
4:FY:100:LEU:HG	4:FY:105:LEU:HA	1.83	0.61
1:A7:549:LEU:HD12	2:B8:46:GLN:HB3	1.82	0.61
3:CA:299:VAL:HG23	4:FA:132:MET:HG2	1.83	0.61
2:BD:194:GLY:O	2:BD:198:THR:OG1	2.16	0.61
3:CK:258:GLU:OE2	4:DK:72:ARG:NH1	2.33	0.61
2:BP:146:LEU:HD22	2:BQ:206:MET:SD	2.40	0.61
2:BQ:251:LEU:HA	2:BQ:254:VAL:HG22	1.81	0.61
2:BQ:261:ILE:HG23	2:BQ:296:VAL:HG11	1.83	0.61
4:FS:100:LEU:HG	4:FS:105:LEU:HA	1.83	0.61
2:BV:132:THR:O	2:BV:136:HIS:ND1	2.33	0.61
2:BV:251:LEU:HA	2:BV:254:VAL:HG22	1.81	0.61
3:C3:149:THR:HG22	3:C3:152:ARG:HH22	1.66	0.61
2:B4:122:ILE:HG22	2:B4:130:ILE:HG12	1.81	0.61
2:B5:14:LEU:HD23	2:B5:17:ILE:HD11	1.83	0.61
1:A8:549:LEU:HD11	2:B9:46:GLN:H	1.65	0.61
2:B9:139:ARG:HH21	2:BA:202:ILE:HG12	1.66	0.61
2:BC:47:ILE:HD12	2:BC:52:LEU:HB3	1.82	0.61
3:CC:154:ILE:HA	3:CC:157:MET:SD	2.40	0.61
3:CD:154:ILE:HA	3:CD:157:MET:SD	2.40	0.61
4:DD:104:TYR:HD2	4:ED:60:ILE:HD13	1.65	0.61
2:BF:131:ALA:HB1	2:BF:161:ILE:HD11	1.83	0.61
2:BJ:146:LEU:HD22	2:BK:206:MET:SD	2.40	0.61
4:EK:97:LEU:O	4:EK:109:GLY:N	2.30	0.61
2:BN:47:ILE:HD12	2:BN:52:LEU:HB3	1.83	0.61
4:EP:97:LEU:O	4:EP:109:GLY:N	2.30	0.61
1:AV:532:MET:HA	1:AV:535:ARG:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EX:70:ARG:NH2	4:EX:98:ASP:OD2	2.32	0.61
1:A1:549:LEU:HD12	2:B2:46:GLN:HB3	1.81	0.61
4:F2:101:ILE:HG12	4:F2:106:ILE:HD11	1.83	0.61
4:F6:54:ILE:HG13	4:F6:55:ASP:N	2.16	0.61
2:B8:12:ILE:HG12	2:B8:47:ILE:HG12	1.81	0.61
3:C9:242:GLU:HB2	3:C9:246:TRP:NE1	2.16	0.61
2:BC:107:ILE:HD11	2:BC:136:HIS:CE1	2.36	0.61
2:BJ:47:ILE:HD12	2:BJ:52:LEU:HB3	1.82	0.61
3:CL:149:THR:HG22	3:CL:152:ARG:HH22	1.65	0.61
2:BM:194:GLY:O	2:BM:198:THR:OG1	2.16	0.61
3:CT:154:ILE:HA	3:CT:157:MET:SD	2.40	0.61
3:CT:258:GLU:OE1	4:DT:73:MET:N	2.34	0.61
2:BV:133:ILE:HD13	2:BV:136:HIS:HE1	1.66	0.61
3:C3:258:GLU:OE2	4:D3:72:ARG:NH1	2.34	0.60
2:B6:251:LEU:HA	2:B6:254:VAL:HG22	1.83	0.60
4:E9:74:THR:HA	4:F9:61:PRO:HA	1.83	0.60
3:CA:149:THR:HG22	3:CA:152:ARG:HH22	1.65	0.60
2:BE:139:ARG:HH22	2:BF:201:GLU:HB2	1.65	0.60
2:BI:261:ILE:HG23	2:BI:296:VAL:HG11	1.83	0.60
4:EN:70:ARG:NH2	4:EN:98:ASP:OD2	2.29	0.60
2:BS:190:ARG:NH1	2:BS:191:SER:O	2.34	0.60
4:ET:70:ARG:NH2	4:ET:98:ASP:OD2	2.31	0.60
4:ET:130:GLU:O	4:ET:134:ARG:NH1	2.34	0.60
4:FT:127:THR:OG1	4:FT:130:GLU:OE1	2.19	0.60
4:EU:70:ARG:NH2	4:EU:98:ASP:OD2	2.29	0.60
4:FU:70:ARG:HH22	4:FU:134:ARG:HG3	1.64	0.60
2:BV:47:ILE:HD12	2:BV:52:LEU:HB3	1.81	0.60
2:BX:251:LEU:HA	2:BX:254:VAL:HG22	1.83	0.60
4:E5:70:ARG:NH2	4:E5:98:ASP:OD2	2.29	0.60
2:B9:146:LEU:HD21	2:B9:154:ARG:HG3	1.83	0.60
4:F9:74:THR:OG1	4:F9:77:GLU:OE1	2.16	0.60
2:BD:107:ILE:HD11	2:BD:136:HIS:CE1	2.36	0.60
2:BJ:155:HIS:HA	2:BJ:158:MET:SD	2.40	0.60
3:CM:149:THR:HG22	3:CM:152:ARG:HH22	1.65	0.60
4:FR:100:LEU:HG	4:FR:105:LEU:HA	1.84	0.60
2:B4:251:LEU:HA	2:B4:254:VAL:HG22	1.83	0.60
4:D5:64:LEU:HA	4:D5:101:ILE:HG22	1.82	0.60
3:C6:288:LYS:HZ3	4:D6:118:TYR:H	1.48	0.60
4:F9:70:ARG:HH22	4:F9:134:ARG:HG3	1.65	0.60
3:CE:260:GLU:OE2	4:DE:72:ARG:NH1	2.34	0.60
4:FE:127:THR:OG1	4:FE:130:GLU:OE1	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:149:THR:HG22	3:CH:152:ARG:HH22	1.65	0.60
4:EK:68:LEU:HD23	4:FK:68:LEU:HD22	1.83	0.60
4:ER:97:LEU:O	4:ER:109:GLY:N	2.30	0.60
2:BX:47:ILE:HD12	2:BX:52:LEU:HB3	1.82	0.60
2:BY:14:LEU:HD23	2:BY:17:ILE:HD11	1.83	0.60
4:DY:134:ARG:O	4:DY:137:ARG:NH1	2.33	0.60
1:A2:549:LEU:HD12	2:B3:46:GLN:HB3	1.82	0.60
2:B6:136:HIS:NE2	2:B7:193:MET:HG3	2.16	0.60
4:FA:74:THR:OG1	4:FA:77:GLU:OE1	2.11	0.60
4:EC:74:THR:HA	4:FC:61:PRO:HA	1.83	0.60
4:FD:100:LEU:HG	4:FD:105:LEU:HA	1.84	0.60
4:EE:68:LEU:HD23	4:FE:68:LEU:HD22	1.83	0.60
4:DH:104:TYR:HD2	4:EH:60:ILE:HD13	1.66	0.60
3:CI:149:THR:HG22	3:CI:152:ARG:HH22	1.65	0.60
4:EK:70:ARG:NH2	4:EK:98:ASP:OD2	2.29	0.60
4:FN:70:ARG:HH22	4:FN:134:ARG:HG3	1.65	0.60
4:FN:127:THR:OG1	4:FN:130:GLU:OE1	2.20	0.60
2:BO:327:GLU:OE1	2:BO:330:TYR:OH	2.18	0.60
4:EP:73:MET:SD	4:EP:77:GLU:HB2	2.40	0.60
4:EW:68:LEU:HD23	4:FW:68:LEU:HD22	1.82	0.60
4:FW:100:LEU:HG	4:FW:105:LEU:HA	1.83	0.60
4:EX:130:GLU:O	4:EX:134:ARG:NH1	2.34	0.60
2:B1:251:LEU:HA	2:B1:254:VAL:HG22	1.83	0.60
4:E3:68:LEU:HD23	4:F3:68:LEU:HD22	1.83	0.60
2:BK:47:ILE:HD12	2:BK:52:LEU:HB3	1.82	0.60
4:DM:64:LEU:HA	4:DM:101:ILE:HG22	1.84	0.60
4:DM:102:ASN:ND2	4:EM:61:PRO:O	2.35	0.60
4:EN:68:LEU:HD23	4:FN:68:LEU:HD22	1.83	0.60
4:EO:68:LEU:HD23	4:FO:68:LEU:HD22	1.83	0.60
4:EP:130:GLU:O	4:EP:134:ARG:NH1	2.35	0.60
4:EQ:70:ARG:NH2	4:EQ:98:ASP:OD2	2.30	0.60
3:CS:260:GLU:OE2	4:DS:72:ARG:NH1	2.34	0.60
4:DS:104:TYR:HD2	4:ES:60:ILE:HD13	1.66	0.60
2:BU:47:ILE:HD12	2:BU:52:LEU:HB3	1.83	0.60
3:CX:105:ILE:HD11	3:CX:116:VAL:HG12	1.84	0.60
4:EY:130:GLU:O	4:EY:134:ARG:NH1	2.35	0.60
2:B3:251:LEU:HA	2:B3:254:VAL:HG22	1.81	0.60
3:C4:242:GLU:HG3	4:E5:82:THR:HB	1.84	0.60
2:B5:243:ASP:OD2	2:B6:297:ARG:NH2	2.35	0.60
4:D5:102:ASN:ND2	4:E5:61:PRO:O	2.35	0.60
4:F5:76:LYS:O	4:F5:80:ARG:NE	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:149:THR:HG22	3:C7:152:ARG:HH22	1.65	0.60
2:B8:14:LEU:HD23	2:B8:17:ILE:HD11	1.84	0.60
4:E8:98:ASP:HB2	4:E8:105:LEU:HD11	1.84	0.60
3:C9:149:THR:HG22	3:C9:152:ARG:HH22	1.66	0.60
4:FB:109:GLY:HA3	4:FB:122:ILE:HA	1.84	0.60
4:FH:127:THR:OG1	4:FH:130:GLU:OE1	2.20	0.60
4:EI:70:ARG:NH2	4:EI:98:ASP:OD2	2.30	0.60
1:AL:549:LEU:HD12	2:BM:46:GLN:HB3	1.82	0.60
4:DL:102:ASN:ND2	4:EL:61:PRO:O	2.35	0.60
4:EO:130:GLU:O	4:EO:134:ARG:NH1	2.34	0.60
4:DP:104:TYR:HD2	4:EP:60:ILE:HD13	1.67	0.60
4:EU:130:GLU:O	4:EU:134:ARG:NH1	2.35	0.60
4:EV:68:LEU:HD23	4:FV:68:LEU:HD22	1.82	0.60
4:EV:130:GLU:O	4:EV:134:ARG:NH1	2.35	0.60
2:BW:47:ILE:HD12	2:BW:52:LEU:HB3	1.82	0.60
4:E1:130:GLU:O	4:E1:134:ARG:NH1	2.35	0.60
4:F1:100:LEU:HG	4:F1:105:LEU:HA	1.83	0.60
4:E4:70:ARG:NH2	4:E4:98:ASP:OD2	2.29	0.60
2:BC:158:MET:CE	2:BD:218:VAL:HB	2.29	0.60
3:CC:249:ASN:HB3	4:FD:125:ILE:HG21	1.84	0.60
4:EC:68:LEU:HD23	4:FC:68:LEU:HD22	1.83	0.60
4:EC:70:ARG:NH2	4:EC:98:ASP:OD2	2.31	0.60
2:BD:243:ASP:OD2	2:BE:297:ARG:NH2	2.35	0.60
3:CD:149:THR:HG22	3:CD:152:ARG:HH22	1.66	0.60
3:CF:105:ILE:HD11	3:CF:116:VAL:HG12	1.84	0.60
3:CG:149:THR:HG22	3:CG:152:ARG:HH22	1.67	0.60
4:EJ:68:LEU:HD23	4:FJ:68:LEU:HD22	1.83	0.60
3:CL:299:VAL:HG23	4:FL:132:MET:HG2	1.83	0.60
4:EM:130:GLU:O	4:EM:134:ARG:NH1	2.35	0.60
3:CR:149:THR:HG22	3:CR:152:ARG:HH22	1.66	0.60
1:AW:532:MET:HA	1:AW:535:ARG:HG3	1.84	0.60
2:BW:107:ILE:HD11	2:BW:136:HIS:NE2	2.17	0.60
4:F4:109:GLY:HA3	4:F4:122:ILE:HA	1.84	0.60
4:F7:70:ARG:HH22	4:F7:134:ARG:HG3	1.67	0.60
2:B8:158:MET:CE	2:B9:218:VAL:HB	2.32	0.60
4:FJ:70:ARG:HH22	4:FJ:134:ARG:HG3	1.66	0.60
4:EK:130:GLU:O	4:EK:134:ARG:NH1	2.35	0.60
2:BL:251:LEU:HA	2:BL:254:VAL:HG22	1.83	0.60
4:DL:64:LEU:HA	4:DL:101:ILE:HG22	1.84	0.60
4:FM:76:LYS:O	4:FM:80:ARG:NE	2.31	0.60
4:ES:68:LEU:HD23	4:FS:68:LEU:HD22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:272:LEU:HD23	4:DT:60:ILE:HB	1.83	0.60
4:ET:97:LEU:O	4:ET:109:GLY:N	2.31	0.60
3:CV:250:LEU:HD22	4:EW:79:LEU:HA	1.81	0.60
2:B4:131:ALA:HB1	2:B4:161:ILE:HD11	1.84	0.60
2:B6:136:HIS:CD2	2:B7:193:MET:HG3	2.36	0.60
2:B9:251:LEU:HA	2:B9:254:VAL:HG22	1.83	0.60
3:CC:149:THR:HG22	3:CC:152:ARG:HH22	1.66	0.60
4:FD:127:THR:OG1	4:FD:130:GLU:OE1	2.20	0.60
2:BG:47:ILE:HD12	2:BG:52:LEU:HB3	1.82	0.60
2:BI:47:ILE:HD12	2:BI:52:LEU:HB3	1.82	0.60
3:CI:105:ILE:HD11	3:CI:116:VAL:HG12	1.84	0.60
3:CI:299:VAL:HG23	4:FI:132:MET:HG2	1.83	0.60
4:EL:130:GLU:O	4:EL:134:ARG:NH1	2.35	0.60
4:EP:68:LEU:HD23	4:FP:68:LEU:HD22	1.83	0.60
4:FP:100:LEU:HG	4:FP:105:LEU:HA	1.84	0.60
4:DR:104:TYR:HD2	4:ER:60:ILE:HD13	1.66	0.60
4:FR:70:ARG:HH22	4:FR:134:ARG:HG3	1.66	0.60
2:BV:122:ILE:HG22	2:BV:130:ILE:HG12	1.82	0.60
2:BW:251:LEU:HA	2:BW:254:VAL:HG22	1.83	0.60
4:FY:105:LEU:HD21	4:FY:126:ILE:HG21	1.84	0.60
2:B3:194:GLY:O	2:B3:198:THR:OG1	2.16	0.60
3:C4:149:THR:HG22	3:C4:152:ARG:HH22	1.65	0.60
4:E4:68:LEU:HD23	4:F4:68:LEU:HD22	1.83	0.60
3:C6:249:ASN:HB3	4:F7:125:ILE:HG21	1.84	0.60
4:DA:104:TYR:HD2	4:EA:60:ILE:HD13	1.67	0.60
4:FA:70:ARG:HH22	4:FA:134:ARG:HG3	1.66	0.60
4:EF:68:LEU:HD23	4:FF:68:LEU:HD22	1.83	0.60
4:DG:135:LEU:HD22	4:EH:132:MET:HG3	1.83	0.60
4:EG:68:LEU:HD23	4:FG:68:LEU:HD22	1.84	0.60
3:CJ:105:ILE:HD11	3:CJ:116:VAL:HG12	1.84	0.60
4:EM:70:ARG:NH2	4:EM:98:ASP:OD2	2.30	0.60
3:CR:105:ILE:HD11	3:CR:116:VAL:HG12	1.84	0.60
4:ER:130:GLU:O	4:ER:134:ARG:NH1	2.35	0.60
4:FT:54:ILE:HG13	4:FT:55:ASP:H	1.67	0.60
4:FW:54:ILE:HG13	4:FW:55:ASP:N	2.17	0.60
3:CY:260:GLU:OE2	4:DY:72:ARG:NH1	2.35	0.60
3:C2:149:THR:HG22	3:C2:152:ARG:HH22	1.66	0.59
4:E5:130:GLU:O	4:E5:134:ARG:NH1	2.35	0.59
4:F6:127:THR:OG1	4:F6:130:GLU:OE1	2.17	0.59
3:C7:185:GLN:HB2	3:C7:188:PHE:CD2	2.37	0.59
4:EB:130:GLU:O	4:EB:134:ARG:NH1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:61:PRO:O	4:EE:102:ASN:ND2	2.35	0.59
4:DE:104:TYR:HD2	4:EE:60:ILE:HD13	1.67	0.59
4:DH:76:LYS:HA	4:DH:79:LEU:HG	1.83	0.59
4:FI:100:LEU:HG	4:FI:105:LEU:HA	1.84	0.59
4:FJ:74:THR:OG1	4:FJ:77:GLU:OE1	2.14	0.59
4:EL:68:LEU:HD23	4:FL:68:LEU:HD22	1.84	0.59
3:CM:105:ILE:HD11	3:CM:116:VAL:HG12	1.84	0.59
4:EM:68:LEU:HD23	4:FM:68:LEU:HD22	1.83	0.59
2:BN:251:LEU:HA	2:BN:254:VAL:HG22	1.84	0.59
3:CN:149:THR:HG22	3:CN:152:ARG:HH22	1.67	0.59
2:BO:131:ALA:HB1	2:BO:161:ILE:HD11	1.84	0.59
2:BP:327:GLU:OE1	2:BP:330:TYR:OH	2.18	0.59
4:FQ:54:ILE:HG13	4:FQ:55:ASP:N	2.17	0.59
4:ER:70:ARG:NH2	4:ER:98:ASP:OD2	2.31	0.59
2:BV:129:ILE:HD11	2:BV:178:VAL:HG11	1.84	0.59
2:BW:14:LEU:HD23	2:BW:17:ILE:HD11	1.84	0.59
2:BW:107:ILE:HD11	2:BW:136:HIS:CE1	2.37	0.59
3:CX:149:THR:HG22	3:CX:152:ARG:HH22	1.66	0.59
3:CX:250:LEU:HD22	4:EY:79:LEU:HA	1.81	0.59
2:B1:136:HIS:CD2	2:B2:193:MET:HG3	2.36	0.59
2:B2:251:LEU:HA	2:B2:254:VAL:HG22	1.83	0.59
2:B3:230:ILE:HA	2:B3:233:MET:HG2	1.84	0.59
4:D6:102:ASN:ND2	4:E6:61:PRO:O	2.35	0.59
2:B7:131:ALA:HB1	2:B7:161:ILE:HD11	1.83	0.59
2:B8:230:ILE:HA	2:B8:233:MET:HG2	1.84	0.59
2:BA:47:ILE:HD12	2:BA:52:LEU:HB3	1.82	0.59
4:EB:68:LEU:HD23	4:FB:68:LEU:HD22	1.83	0.59
3:CE:299:VAL:HG23	4:FE:132:MET:HG2	1.83	0.59
3:CG:105:ILE:HD11	3:CG:116:VAL:HG12	1.84	0.59
3:CL:105:ILE:HD11	3:CL:116:VAL:HG12	1.85	0.59
2:BN:230:ILE:HA	2:BN:233:MET:HG2	1.83	0.59
4:DN:102:ASN:ND2	4:EN:61:PRO:O	2.35	0.59
4:FO:74:THR:OG1	4:FO:77:GLU:OE1	2.16	0.59
2:BQ:243:ASP:OD2	2:BR:297:ARG:NH2	2.27	0.59
4:EQ:97:LEU:O	4:EQ:109:GLY:N	2.31	0.59
4:FR:108:GLN:HG3	4:FR:126:ILE:HD11	1.83	0.59
3:CT:149:THR:HG22	3:CT:152:ARG:HH22	1.66	0.59
4:E1:68:LEU:HD23	4:F1:68:LEU:HD22	1.83	0.59
2:B2:230:ILE:HA	2:B2:233:MET:HG2	1.84	0.59
3:C2:105:ILE:HD11	3:C2:116:VAL:HG12	1.84	0.59
2:B4:14:LEU:HD23	2:B4:17:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E4:130:GLU:O	4:E4:134:ARG:NH1	2.35	0.59
2:B5:129:ILE:HD11	2:B5:178:VAL:HG11	1.83	0.59
3:C6:149:THR:HG22	3:C6:152:ARG:HH22	1.67	0.59
3:C7:105:ILE:HD11	3:C7:116:VAL:HG12	1.84	0.59
4:D7:134:ARG:HA	4:D7:137:ARG:HE	1.66	0.59
1:A8:549:LEU:HD12	2:B9:46:GLN:HB3	1.83	0.59
2:BC:14:LEU:HD23	2:BC:17:ILE:HD11	1.85	0.59
4:DL:125:ILE:HG22	4:DL:126:ILE:H	1.68	0.59
4:EL:70:ARG:NH2	4:EL:98:ASP:OD2	2.30	0.59
2:BO:14:LEU:HD23	2:BO:17:ILE:HD11	1.84	0.59
3:CP:105:ILE:HD11	3:CP:116:VAL:HG12	1.84	0.59
2:BQ:129:ILE:HD11	2:BQ:178:VAL:HG11	1.85	0.59
3:CS:149:THR:HG22	3:CS:152:ARG:HH22	1.67	0.59
3:CU:105:ILE:HD11	3:CU:116:VAL:HG12	1.85	0.59
4:EY:68:LEU:HD23	4:FY:68:LEU:HD22	1.83	0.59
4:F1:74:THR:OG1	4:F1:77:GLU:OE1	2.16	0.59
4:F1:127:THR:OG1	4:F1:130:GLU:OE1	2.16	0.59
3:C5:105:ILE:HD11	3:C5:116:VAL:HG12	1.84	0.59
2:B7:14:LEU:HD23	2:B7:17:ILE:HD11	1.85	0.59
2:B7:230:ILE:HA	2:B7:233:MET:HG2	1.84	0.59
4:E7:68:LEU:HD23	4:F7:68:LEU:HD22	1.83	0.59
4:F9:54:ILE:HG13	4:F9:55:ASP:N	2.17	0.59
3:CB:185:GLN:HB2	3:CB:188:PHE:CD2	2.38	0.59
3:CC:258:GLU:OE1	4:DC:73:MET:N	2.35	0.59
3:CD:185:GLN:HB2	3:CD:188:PHE:CD2	2.37	0.59
3:CE:238:ASN:HB3	4:EF:83:GLN:NE2	2.17	0.59
4:EH:68:LEU:HD23	4:FH:68:LEU:HD22	1.84	0.59
4:FI:101:ILE:HG23	4:FI:106:ILE:HG13	1.84	0.59
4:EN:130:GLU:O	4:EN:134:ARG:NH1	2.34	0.59
2:BO:218:VAL:HG13	2:BO:226:ALA:HB2	1.85	0.59
3:CP:149:THR:HG22	3:CP:152:ARG:HH22	1.67	0.59
4:DQ:125:ILE:HG22	4:DQ:126:ILE:H	1.68	0.59
3:CS:105:ILE:HD11	3:CS:116:VAL:HG12	1.84	0.59
4:ES:130:GLU:O	4:ES:134:ARG:NH1	2.35	0.59
4:FT:100:LEU:HG	4:FT:105:LEU:HA	1.84	0.59
2:B1:230:ILE:HA	2:B1:233:MET:HG2	1.84	0.59
3:C1:238:ASN:HB3	4:E2:83:GLN:NE2	2.17	0.59
2:B2:14:LEU:HD23	2:B2:17:ILE:HD11	1.85	0.59
4:E2:130:GLU:O	4:E2:134:ARG:NH1	2.35	0.59
3:C4:105:ILE:HD11	3:C4:116:VAL:HG12	1.84	0.59
3:C5:253:GLN:HE22	4:F6:106:ILE:HD13	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E5:77:GLU:O	4:E5:81:LEU:HG	2.02	0.59
2:B6:261:ILE:HG23	2:B6:296:VAL:HG11	1.84	0.59
2:B9:230:ILE:HA	2:B9:233:MET:HG2	1.85	0.59
3:CA:144:ARG:NH1	3:CA:150:GLU:OE1	2.26	0.59
3:CD:105:ILE:HD11	3:CD:116:VAL:HG12	1.84	0.59
2:BE:14:LEU:HD23	2:BE:17:ILE:HD11	1.85	0.59
4:FF:54:ILE:HG13	4:FF:55:ASP:N	2.16	0.59
4:FF:109:GLY:HA3	4:FF:122:ILE:HA	1.85	0.59
2:BI:14:LEU:HD23	2:BI:17:ILE:HD11	1.85	0.59
3:CI:144:ARG:NH1	3:CI:150:GLU:OE1	2.26	0.59
4:EI:68:LEU:HD23	4:FI:68:LEU:HD22	1.84	0.59
4:DL:104:TYR:HD2	4:EL:60:ILE:HD13	1.67	0.59
4:EN:74:THR:HA	4:FN:61:PRO:HA	1.84	0.59
4:DR:134:ARG:HA	4:DR:137:ARG:HE	1.68	0.59
4:DT:102:ASN:ND2	4:ET:61:PRO:O	2.35	0.59
2:B1:47:ILE:HD12	2:B1:52:LEU:HB3	1.83	0.59
3:C2:249:ASN:HB2	4:F3:125:ILE:HD13	1.84	0.59
2:B3:14:LEU:HD23	2:B3:17:ILE:HD11	1.85	0.59
2:B4:230:ILE:HA	2:B4:233:MET:HG2	1.84	0.59
3:C7:144:ARG:NH1	3:C7:150:GLU:OE1	2.26	0.59
3:CE:253:GLN:HG3	4:FF:131:ARG:HH22	1.66	0.59
4:EE:130:GLU:O	4:EE:134:ARG:NH1	2.35	0.59
2:BF:14:LEU:HD23	2:BF:17:ILE:HD11	1.85	0.59
2:BG:14:LEU:HD23	2:BG:17:ILE:HD11	1.85	0.59
2:BK:172:LEU:HD21	2:BL:189:LYS:HB3	1.84	0.59
4:FK:100:LEU:HG	4:FK:105:LEU:HA	1.84	0.59
3:CO:105:ILE:HD11	3:CO:116:VAL:HG12	1.85	0.59
2:BP:129:ILE:HD11	2:BP:178:VAL:HG11	1.84	0.59
2:BS:14:LEU:HD23	2:BS:17:ILE:HD11	1.84	0.59
2:BT:14:LEU:HD23	2:BT:17:ILE:HD11	1.84	0.59
2:BU:133:ILE:HD13	2:BU:136:HIS:HE1	1.66	0.59
3:C2:260:GLU:OE2	4:D2:72:ARG:NH1	2.36	0.59
4:F3:100:LEU:HG	4:F3:105:LEU:HA	1.85	0.59
4:E6:105:LEU:O	4:E6:131:ARG:NH2	2.35	0.59
4:F7:105:LEU:HD21	4:F7:126:ILE:HG21	1.85	0.59
2:B9:14:LEU:HD23	2:B9:17:ILE:HD11	1.85	0.59
2:BA:230:ILE:HA	2:BA:233:MET:HG2	1.84	0.59
3:CA:105:ILE:HD11	3:CA:116:VAL:HG12	1.84	0.59
2:BD:47:ILE:HD12	2:BD:52:LEU:HB3	1.82	0.59
4:FG:70:ARG:HH22	4:FG:134:ARG:HG3	1.66	0.59
2:BH:14:LEU:HD23	2:BH:17:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:14:LEU:HD23	2:BK:17:ILE:HD11	1.84	0.59
2:BK:230:ILE:HA	2:BK:233:MET:HG2	1.83	0.59
4:DN:125:ILE:HG22	4:DN:126:ILE:H	1.68	0.59
2:BO:230:ILE:HA	2:BO:233:MET:HG2	1.84	0.59
4:FO:100:LEU:HG	4:FO:105:LEU:HA	1.85	0.59
4:DT:104:TYR:HD2	4:ET:60:ILE:HD13	1.68	0.59
4:DU:61:PRO:O	4:EU:102:ASN:ND2	2.35	0.59
3:CW:149:THR:HG22	3:CW:152:ARG:HH22	1.67	0.59
4:FX:100:LEU:HG	4:FX:105:LEU:HA	1.85	0.59
3:C1:149:THR:HG22	3:C1:152:ARG:HH22	1.66	0.59
3:C1:260:GLU:OE2	4:D1:72:ARG:NH1	2.36	0.59
3:C2:302:LEU:HD13	3:C2:317:VAL:HG23	1.85	0.59
3:C3:185:GLN:HB2	3:C3:188:PHE:CD2	2.38	0.59
4:D4:104:TYR:HD2	4:E4:60:ILE:HD13	1.68	0.59
4:E5:60:ILE:H	4:F5:74:THR:HB	1.68	0.59
4:F5:100:LEU:HG	4:F5:105:LEU:HA	1.85	0.59
2:B6:14:LEU:HD23	2:B6:17:ILE:HD11	1.85	0.59
4:D7:104:TYR:HD2	4:E7:60:ILE:HD13	1.67	0.59
3:C8:149:THR:HG22	3:C8:152:ARG:HH22	1.67	0.59
4:F8:105:LEU:HD21	4:F8:126:ILE:HG21	1.85	0.59
2:BB:14:LEU:HD23	2:BB:17:ILE:HD11	1.85	0.59
3:CD:243:ASP:O	3:CD:247:ARG:HG2	2.02	0.59
4:DD:125:ILE:HG22	4:DD:126:ILE:H	1.68	0.59
2:BE:136:HIS:CD2	2:BF:193:MET:HG3	2.38	0.59
2:BE:261:ILE:HG23	2:BE:296:VAL:HG11	1.84	0.59
2:BG:251:LEU:HA	2:BG:254:VAL:HG22	1.84	0.59
4:FG:54:ILE:HG13	4:FG:55:ASP:H	1.68	0.59
2:BJ:155:HIS:O	2:BJ:159:LEU:HG	2.02	0.59
2:BJ:251:LEU:HA	2:BJ:254:VAL:HG22	1.83	0.59
4:FK:108:GLN:HG3	4:FK:126:ILE:HD11	1.84	0.59
2:BQ:230:ILE:HA	2:BQ:233:MET:HG2	1.84	0.59
3:CQ:302:LEU:HD13	3:CQ:317:VAL:HG23	1.84	0.59
2:BR:73:ALA:HB1	2:BS:42:ALA:HA	1.83	0.59
3:CR:249:ASN:HD22	4:FS:125:ILE:HG21	1.67	0.59
4:ET:68:LEU:HD23	4:FT:68:LEU:HD22	1.83	0.59
3:CU:149:THR:HG22	3:CU:152:ARG:HH22	1.67	0.59
2:BV:14:LEU:HD23	2:BV:17:ILE:HD11	1.85	0.59
3:CV:105:ILE:HD11	3:CV:116:VAL:HG12	1.85	0.59
4:DX:125:ILE:HG22	4:DX:126:ILE:H	1.68	0.59
3:C4:302:LEU:HD13	3:C4:317:VAL:HG23	1.85	0.59
4:F7:74:THR:OG1	4:F7:77:GLU:OE1	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:230:ILE:HA	2:BD:233:MET:HG2	1.84	0.59
2:BE:230:ILE:HA	2:BE:233:MET:HG2	1.84	0.59
3:CF:185:GLN:HB2	3:CF:188:PHE:CD2	2.38	0.59
3:CH:185:GLN:HB2	3:CH:188:PHE:CD2	2.36	0.59
4:EI:130:GLU:O	4:EI:134:ARG:NH1	2.35	0.59
3:CJ:299:VAL:HG23	4:FJ:132:MET:HG2	1.84	0.59
2:BS:136:HIS:CD2	2:BT:193:MET:HG3	2.38	0.59
4:DT:125:ILE:HG22	4:DT:126:ILE:H	1.68	0.59
2:BU:129:ILE:HD11	2:BU:178:VAL:HG11	1.85	0.59
4:EU:77:GLU:O	4:EU:81:LEU:HG	2.02	0.59
4:DV:125:ILE:HG22	4:DV:126:ILE:H	1.68	0.59
2:BX:107:ILE:HD11	2:BX:136:HIS:CE1	2.37	0.59
3:C1:105:ILE:HD11	3:C1:116:VAL:HG12	1.84	0.59
4:F1:108:GLN:HG3	4:F1:126:ILE:HD11	1.84	0.59
4:E5:68:LEU:HD23	4:F5:68:LEU:HD22	1.83	0.59
2:B6:230:ILE:HA	2:B6:233:MET:HG2	1.84	0.59
4:F7:54:ILE:HG13	4:F7:55:ASP:N	2.17	0.59
3:C8:253:GLN:NE2	4:F9:106:ILE:O	2.31	0.59
2:B9:73:ALA:HB1	2:BA:42:ALA:HA	1.85	0.59
2:BB:203:ILE:HA	2:BB:206:MET:HG2	1.84	0.59
2:BB:206:MET:HB2	2:BB:211:GLU:HB3	1.84	0.59
4:DB:125:ILE:HG22	4:DB:126:ILE:H	1.68	0.59
3:CC:105:ILE:HD11	3:CC:116:VAL:HG12	1.84	0.59
4:DD:64:LEU:HA	4:DD:101:ILE:HG22	1.83	0.59
4:ED:70:ARG:NH2	4:ED:98:ASP:OD2	2.32	0.59
4:FE:108:GLN:HG3	4:FE:126:ILE:HD11	1.85	0.59
2:BF:230:ILE:HA	2:BF:233:MET:HG2	1.84	0.59
3:CF:149:THR:HG22	3:CF:152:ARG:HH22	1.67	0.59
4:EG:130:GLU:O	4:EG:134:ARG:NH1	2.35	0.59
4:FO:54:ILE:HG13	4:FO:55:ASP:N	2.17	0.59
4:FU:101:ILE:HG23	4:FU:106:ILE:HG13	1.84	0.59
4:DV:104:TYR:HD2	4:EV:60:ILE:HD13	1.67	0.59
3:CY:105:ILE:HD11	3:CY:116:VAL:HG12	1.85	0.59
4:F4:100:LEU:HG	4:F4:105:LEU:HA	1.85	0.58
3:C5:144:ARG:NH1	3:C5:150:GLU:OE1	2.26	0.58
3:C8:105:ILE:HD11	3:C8:116:VAL:HG12	1.84	0.58
4:E8:130:GLU:O	4:E8:134:ARG:NH1	2.35	0.58
4:EA:68:LEU:HD23	4:FA:68:LEU:HD22	1.83	0.58
4:EA:130:GLU:O	4:EA:134:ARG:NH1	2.35	0.58
4:EC:130:GLU:O	4:EC:134:ARG:NH1	2.34	0.58
4:ED:130:GLU:O	4:ED:134:ARG:NH1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:130:GLU:O	4:EF:134:ARG:NH1	2.35	0.58
2:BG:158:MET:HG2	2:BH:214:VAL:HG13	1.84	0.58
4:DG:125:ILE:HG22	4:DG:126:ILE:H	1.68	0.58
2:BJ:155:HIS:O	2:BJ:158:MET:HG2	2.03	0.58
3:CJ:185:GLN:HB2	3:CJ:188:PHE:CD2	2.38	0.58
4:DJ:104:TYR:HD2	4:EJ:60:ILE:HD13	1.68	0.58
4:FJ:100:LEU:HG	4:FJ:105:LEU:HA	1.86	0.58
3:CN:105:ILE:HD11	3:CN:116:VAL:HG12	1.84	0.58
3:CN:185:GLN:HB2	3:CN:188:PHE:CD2	2.37	0.58
4:DN:134:ARG:HA	4:DN:137:ARG:HE	1.68	0.58
4:DO:102:ASN:ND2	4:EO:61:PRO:O	2.36	0.58
4:ER:68:LEU:HD23	4:FR:68:LEU:HD22	1.83	0.58
1:AS:535:ARG:HH22	2:BS:60:GLU:HB2	1.67	0.58
4:EW:130:GLU:O	4:EW:134:ARG:NH1	2.35	0.58
2:BX:129:ILE:HD11	2:BX:178:VAL:HG11	1.84	0.58
3:CX:185:GLN:HB2	3:CX:188:PHE:CD2	2.38	0.58
3:C1:185:GLN:HB2	3:C1:188:PHE:CD2	2.38	0.58
4:D1:104:TYR:HD2	4:E1:60:ILE:HD13	1.69	0.58
4:E2:68:LEU:HD23	4:F2:68:LEU:HD22	1.83	0.58
3:C5:185:GLN:HB2	3:C5:188:PHE:CD2	2.38	0.58
2:B8:243:ASP:OD2	2:B9:297:ARG:NH2	2.36	0.58
4:D8:125:ILE:HG22	4:D8:126:ILE:H	1.68	0.58
2:BC:243:ASP:OD2	2:BD:297:ARG:NH2	2.36	0.58
4:FC:54:ILE:HG13	4:FC:55:ASP:H	1.67	0.58
3:CD:299:VAL:HG23	4:FD:132:MET:HG2	1.84	0.58
4:DJ:125:ILE:HG22	4:DJ:126:ILE:H	1.68	0.58
4:FJ:101:ILE:HG23	4:FJ:106:ILE:HG13	1.85	0.58
2:BL:230:ILE:HA	2:BL:233:MET:HG2	1.84	0.58
4:FL:100:LEU:HG	4:FL:105:LEU:HA	1.85	0.58
3:CP:185:GLN:HB2	3:CP:188:PHE:CD2	2.37	0.58
3:CQ:105:ILE:HD11	3:CQ:116:VAL:HG12	1.84	0.58
4:FQ:108:GLN:HG3	4:FQ:126:ILE:HD11	1.83	0.58
2:BW:131:ALA:O	2:BW:135:VAL:HG22	2.02	0.58
3:CW:105:ILE:HD11	3:CW:116:VAL:HG12	1.84	0.58
3:CX:253:GLN:NE2	4:FY:106:ILE:O	2.36	0.58
4:DX:102:ASN:ND2	4:EX:61:PRO:O	2.36	0.58
2:B1:14:LEU:HD23	2:B1:17:ILE:HD11	1.86	0.58
2:B1:243:ASP:OD2	2:B2:297:ARG:NH2	2.36	0.58
4:F1:101:ILE:HG23	4:F1:106:ILE:HG13	1.85	0.58
2:B2:131:ALA:HB1	2:B2:161:ILE:HD11	1.86	0.58
4:F2:100:LEU:HG	4:F2:105:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:105:ILE:HD11	3:C3:116:VAL:HG12	1.84	0.58
2:B9:136:HIS:CD2	2:BA:193:MET:HG3	2.39	0.58
4:D9:104:TYR:HD2	4:E9:60:ILE:HD13	1.68	0.58
4:E9:130:GLU:O	4:E9:134:ARG:NH1	2.35	0.58
4:DA:125:ILE:HG22	4:DA:126:ILE:H	1.68	0.58
3:CB:105:ILE:HD11	3:CB:116:VAL:HG12	1.84	0.58
4:DB:104:TYR:HD2	4:EB:60:ILE:HD13	1.68	0.58
4:EB:83:GLN:HE22	4:FB:122:ILE:HG13	1.68	0.58
2:BC:230:ILE:HA	2:BC:233:MET:HG2	1.84	0.58
4:DC:102:ASN:ND2	4:EC:61:PRO:O	2.36	0.58
3:CD:253:GLN:NE2	4:FE:106:ILE:HA	2.18	0.58
3:CI:258:GLU:OE2	4:DI:73:MET:N	2.34	0.58
4:DI:125:ILE:HG22	4:DI:126:ILE:H	1.68	0.58
4:DJ:105:LEU:O	4:DJ:131:ARG:NH1	2.36	0.58
3:CK:105:ILE:HD11	3:CK:116:VAL:HG12	1.84	0.58
2:BL:14:LEU:HD23	2:BL:17:ILE:HD11	1.85	0.58
4:FN:54:ILE:HG13	4:FN:55:ASP:N	2.18	0.58
2:BP:230:ILE:HA	2:BP:233:MET:HG2	1.84	0.58
4:EP:98:ASP:HB2	4:EP:105:LEU:HD11	1.84	0.58
3:CR:185:GLN:HB2	3:CR:188:PHE:CD2	2.38	0.58
3:CS:185:GLN:HB2	3:CS:188:PHE:CD2	2.39	0.58
4:DS:125:ILE:HG22	4:DS:126:ILE:H	1.68	0.58
2:BV:230:ILE:HA	2:BV:233:MET:HG2	1.84	0.58
2:BW:134:LEU:HD21	2:BW:146:LEU:HD12	1.86	0.58
4:DY:125:ILE:HG22	4:DY:126:ILE:H	1.68	0.58
4:FY:109:GLY:HA3	4:FY:122:ILE:HA	1.85	0.58
4:D2:125:ILE:HG22	4:D2:126:ILE:H	1.68	0.58
3:C6:185:GLN:HB2	3:C6:188:PHE:CD2	2.39	0.58
4:F6:105:LEU:HD21	4:F6:126:ILE:HG21	1.86	0.58
4:ED:68:LEU:HD23	4:FD:68:LEU:HD22	1.85	0.58
4:FD:105:LEU:HD21	4:FD:126:ILE:HG21	1.85	0.58
4:EE:76:LYS:HE3	4:FE:58:MET:O	2.04	0.58
2:BG:64:GLU:OE1	1:AH:522:ARG:NH1	2.36	0.58
2:BM:230:ILE:HA	2:BM:233:MET:HG2	1.84	0.58
4:DO:125:ILE:HG22	4:DO:126:ILE:H	1.69	0.58
4:DP:102:ASN:ND2	4:EP:61:PRO:O	2.36	0.58
2:BQ:14:LEU:HD23	2:BQ:17:ILE:HD11	1.85	0.58
4:DS:64:LEU:HA	4:DS:101:ILE:HG22	1.85	0.58
4:DU:125:ILE:HG22	4:DU:126:ILE:H	1.67	0.58
4:FU:109:GLY:HA3	4:FU:122:ILE:HA	1.86	0.58
3:CW:185:GLN:HB2	3:CW:188:PHE:CD2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DW:104:TYR:HD2	4:EW:60:ILE:HD13	1.69	0.58
3:C2:185:GLN:HB2	3:C2:188:PHE:CD2	2.39	0.58
4:D3:125:ILE:HG22	4:D3:126:ILE:H	1.68	0.58
3:C5:302:LEU:HD13	3:C5:317:VAL:HG23	1.85	0.58
4:F5:101:ILE:HG23	4:F5:106:ILE:HG13	1.84	0.58
4:E6:68:LEU:HD23	4:F6:68:LEU:HD22	1.84	0.58
4:D8:104:TYR:HD2	4:E8:60:ILE:HD13	1.69	0.58
2:BA:236:PHE:HD1	2:BA:309:LEU:HG	1.68	0.58
4:FA:64:LEU:HA	4:FA:101:ILE:HA	1.85	0.58
2:BB:230:ILE:HA	2:BB:233:MET:HG2	1.84	0.58
4:FD:96:PRO:HB2	4:FD:108:GLN:HB3	1.86	0.58
3:CE:253:GLN:NE2	4:FF:106:ILE:O	2.35	0.58
4:FE:109:GLY:HA3	4:FE:122:ILE:HA	1.86	0.58
3:CF:249:ASN:HD22	4:FG:125:ILE:HD13	1.69	0.58
2:BJ:243:ASP:OD2	2:BK:297:ARG:NH2	2.37	0.58
2:BL:243:ASP:OD2	2:BM:297:ARG:NH2	2.36	0.58
3:CM:144:ARG:NH1	3:CM:150:GLU:OE1	2.26	0.58
3:CN:299:VAL:HG23	4:FN:132:MET:HG2	1.84	0.58
4:DO:104:TYR:HD2	4:EO:60:ILE:HD13	1.69	0.58
4:DS:102:ASN:ND2	4:ES:61:PRO:O	2.37	0.58
4:FU:74:THR:OG1	4:FU:77:GLU:OE1	2.16	0.58
3:CW:253:GLN:NE2	4:FX:106:ILE:O	2.36	0.58
4:FX:127:THR:OG1	4:FX:130:GLU:OE1	2.17	0.58
4:DY:102:ASN:ND2	4:EY:61:PRO:O	2.37	0.58
4:E3:130:GLU:O	4:E3:134:ARG:NH1	2.37	0.58
2:B5:230:ILE:HA	2:B5:233:MET:HG2	1.84	0.58
2:B9:141:GLN:O	2:B9:145:ILE:HG12	2.04	0.58
2:B9:243:ASP:OD2	2:BA:297:ARG:NH2	2.37	0.58
2:BA:14:LEU:HD23	2:BA:17:ILE:HD11	1.86	0.58
4:FA:100:LEU:HG	4:FA:105:LEU:HA	1.86	0.58
4:DC:125:ILE:HG22	4:DC:126:ILE:H	1.68	0.58
2:BE:194:GLY:O	2:BE:198:THR:OG1	2.19	0.58
4:DE:125:ILE:HG22	4:DE:126:ILE:H	1.68	0.58
4:FG:54:ILE:HG13	4:FG:55:ASP:N	2.19	0.58
3:CJ:302:LEU:HD13	3:CJ:317:VAL:HG23	1.85	0.58
4:DK:104:TYR:HD2	4:EK:60:ILE:HD13	1.68	0.58
3:CL:302:LEU:HD13	3:CL:317:VAL:HG23	1.85	0.58
2:BM:129:ILE:HD11	2:BM:178:VAL:HG11	1.86	0.58
2:BQ:206:MET:HB2	2:BQ:211:GLU:HB3	1.86	0.58
4:DR:125:ILE:HG22	4:DR:126:ILE:H	1.68	0.58
4:FS:101:ILE:HG23	4:FS:106:ILE:HG13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:105:ILE:HD11	3:CT:116:VAL:HG12	1.85	0.58
4:EU:68:LEU:HD23	4:FU:68:LEU:HD22	1.83	0.58
4:FU:108:GLN:HG3	4:FU:126:ILE:HD11	1.85	0.58
2:BW:230:ILE:HA	2:BW:233:MET:HG2	1.84	0.58
3:CY:185:GLN:HB2	3:CY:188:PHE:CD2	2.39	0.58
4:D4:125:ILE:HG22	4:D4:126:ILE:H	1.68	0.58
4:E6:70:ARG:NH2	4:E6:98:ASP:OD2	2.30	0.58
3:C9:105:ILE:HD11	3:C9:116:VAL:HG12	1.84	0.58
4:D9:125:ILE:HG22	4:D9:126:ILE:H	1.68	0.58
3:CB:246:TRP:CE2	4:FC:125:ILE:HD11	2.38	0.58
4:ED:74:THR:HA	4:FD:61:PRO:HA	1.84	0.58
3:CE:255:GLN:OE1	3:CE:256:HIS:ND1	2.37	0.58
4:FL:71:THR:HG22	4:FL:89:LEU:HA	1.85	0.58
4:DM:125:ILE:HG22	4:DM:126:ILE:H	1.68	0.58
3:CP:302:LEU:HD13	3:CP:317:VAL:HG23	1.85	0.58
3:CQ:149:THR:HG22	3:CQ:152:ARG:HH22	1.66	0.58
4:FQ:100:LEU:HG	4:FQ:105:LEU:HA	1.85	0.58
4:ES:74:THR:HA	4:FS:61:PRO:HA	1.85	0.58
2:BU:14:LEU:HD23	2:BU:17:ILE:HD11	1.85	0.58
3:CV:185:GLN:HB2	3:CV:188:PHE:CD2	2.38	0.58
4:EV:74:THR:HA	4:FV:61:PRO:HA	1.86	0.58
4:FV:108:GLN:HG3	4:FV:126:ILE:HD11	1.83	0.58
4:FY:54:ILE:HG13	4:FY:55:ASP:N	2.17	0.58
2:B3:243:ASP:OD2	2:B4:297:ARG:NH2	2.37	0.58
4:D4:102:ASN:ND2	4:E4:61:PRO:O	2.37	0.58
4:D5:125:ILE:HG22	4:D5:126:ILE:H	1.69	0.58
2:B6:131:ALA:O	2:B6:135:VAL:HG22	2.04	0.58
4:D6:125:ILE:HG22	4:D6:126:ILE:H	1.68	0.58
2:B7:243:ASP:OD2	2:B8:297:ARG:NH2	2.37	0.58
2:B8:131:ALA:HB1	2:B8:161:ILE:HD11	1.84	0.58
3:C8:185:GLN:HB2	3:C8:188:PHE:CD2	2.39	0.58
2:BA:136:HIS:CD2	2:BB:193:MET:HG3	2.39	0.58
4:DA:134:ARG:HA	4:DA:137:ARG:HE	1.67	0.58
2:BB:243:ASP:OD2	2:BC:297:ARG:NH2	2.37	0.58
2:BF:243:ASP:OD2	2:BG:297:ARG:NH2	2.37	0.58
4:FF:105:LEU:HD21	4:FF:126:ILE:HG21	1.86	0.58
2:BG:236:PHE:HD1	2:BG:309:LEU:HG	1.69	0.58
3:CH:105:ILE:HD11	3:CH:116:VAL:HG12	1.85	0.58
2:BJ:14:LEU:HD23	2:BJ:17:ILE:HD11	1.86	0.58
4:FN:71:THR:HG22	4:FN:89:LEU:HA	1.86	0.58
2:BU:230:ILE:HA	2:BU:233:MET:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:302:LEU:HD13	3:CW:317:VAL:HG23	1.86	0.58
2:BX:243:ASP:OD2	2:BY:297:ARG:NH2	2.37	0.58
4:F2:127:THR:OG1	4:F2:130:GLU:OE1	2.18	0.58
3:C3:299:VAL:HG23	4:F3:132:MET:HG2	1.85	0.58
3:C6:299:VAL:HG23	4:F6:132:MET:HG2	1.86	0.58
4:D7:105:LEU:O	4:D7:131:ARG:NH1	2.35	0.58
4:E7:105:LEU:O	4:E7:131:ARG:NH2	2.36	0.58
1:A9:535:ARG:HH22	2:B9:60:GLU:HB2	1.69	0.58
2:BG:136:HIS:CD2	2:BH:193:MET:HG3	2.39	0.58
3:CG:260:GLU:OE2	4:DG:72:ARG:NH1	2.36	0.58
4:EH:75:ILE:HA	4:EH:78:LEU:HG	1.85	0.58
2:BI:129:ILE:HD11	2:BI:178:VAL:HG11	1.86	0.58
3:CI:249:ASN:HD22	4:FJ:125:ILE:HD13	1.69	0.58
2:BJ:129:ILE:HD11	2:BJ:178:VAL:HG11	1.86	0.58
4:DL:134:ARG:HA	4:DL:137:ARG:HE	1.68	0.58
2:BN:131:ALA:HB1	2:BN:161:ILE:HD11	1.86	0.58
2:BN:206:MET:HB2	2:BN:211:GLU:HB3	1.86	0.58
4:EQ:130:GLU:O	4:EQ:134:ARG:NH1	2.37	0.58
3:CR:302:LEU:HB3	3:CR:320:LEU:HG	1.86	0.58
2:BS:230:ILE:HA	2:BS:233:MET:HG2	1.85	0.58
4:FS:108:GLN:HG3	4:FS:126:ILE:HD11	1.84	0.58
4:FV:64:LEU:HA	4:FV:101:ILE:HA	1.85	0.58
2:BX:14:LEU:HD23	2:BX:17:ILE:HD11	1.86	0.58
4:EX:68:LEU:HD23	4:FX:68:LEU:HD22	1.85	0.58
2:BY:230:ILE:HA	2:BY:233:MET:HG2	1.84	0.58
4:DY:104:TYR:HD2	4:EY:60:ILE:HD13	1.67	0.58
2:B1:42:ALA:HB3	2:BY:101:ARG:HH12	1.69	0.58
2:B5:236:PHE:HD1	2:B5:309:LEU:HG	1.69	0.58
4:D7:125:ILE:HG22	4:D7:126:ILE:H	1.68	0.58
4:E7:77:GLU:O	4:E7:81:LEU:HG	2.03	0.58
4:DB:102:ASN:ND2	4:EB:61:PRO:O	2.37	0.58
4:DB:134:ARG:HA	4:DB:137:ARG:HE	1.68	0.58
4:FB:105:LEU:HD21	4:FB:126:ILE:HG21	1.86	0.58
2:BD:14:LEU:HD23	2:BD:17:ILE:HD11	1.86	0.58
4:FF:100:LEU:HG	4:FF:105:LEU:HA	1.85	0.58
4:EH:130:GLU:O	4:EH:134:ARG:NH1	2.36	0.58
4:FI:54:ILE:HG13	4:FI:55:ASP:H	1.68	0.58
3:CJ:191:ILE:HG23	3:CJ:192:THR:HG23	1.86	0.58
2:BN:14:LEU:HD23	2:BN:17:ILE:HD11	1.85	0.58
2:BO:46:GLN:NE2	2:BO:47:ILE:O	2.37	0.58
4:EQ:68:LEU:HD23	4:FQ:68:LEU:HD22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FV:100:LEU:HG	4:FV:105:LEU:HA	1.85	0.58
4:DW:125:ILE:HG22	4:DW:126:ILE:H	1.68	0.58
2:BY:236:PHE:HD1	2:BY:309:LEU:HG	1.69	0.58
3:C3:302:LEU:HD13	3:C3:317:VAL:HG23	1.86	0.57
4:D4:134:ARG:HA	4:D4:137:ARG:HE	1.68	0.57
2:B6:136:HIS:HE2	2:B7:193:MET:HG3	1.68	0.57
4:E8:68:LEU:HD23	4:F8:68:LEU:HD22	1.85	0.57
2:B9:236:PHE:HD1	2:B9:309:LEU:HG	1.68	0.57
3:CA:185:GLN:HB2	3:CA:188:PHE:CD2	2.39	0.57
4:FB:100:LEU:HG	4:FB:105:LEU:HA	1.86	0.57
1:AC:549:LEU:HD11	2:BD:46:GLN:H	1.67	0.57
4:DC:104:TYR:HD2	4:EC:60:ILE:HD13	1.69	0.57
2:BD:236:PHE:HD1	2:BD:309:LEU:HG	1.69	0.57
4:DF:102:ASN:ND2	4:EF:61:PRO:O	2.37	0.57
2:BG:194:GLY:O	2:BG:198:THR:OG1	2.17	0.57
2:BG:230:ILE:HA	2:BG:233:MET:HG2	1.84	0.57
2:BI:230:ILE:HA	2:BI:233:MET:HG2	1.84	0.57
2:BJ:236:PHE:HD1	2:BJ:309:LEU:HG	1.69	0.57
3:CO:302:LEU:HB3	3:CO:320:LEU:HG	1.86	0.57
2:BP:14:LEU:HD23	2:BP:17:ILE:HD11	1.85	0.57
2:BQ:133:ILE:HD13	2:BQ:136:HIS:HE1	1.68	0.57
4:FQ:64:LEU:HA	4:FQ:101:ILE:HA	1.86	0.57
3:CU:302:LEU:HB3	3:CU:320:LEU:HG	1.86	0.57
2:BV:236:PHE:HD1	2:BV:309:LEU:HG	1.69	0.57
4:FV:71:THR:HG22	4:FV:89:LEU:HA	1.85	0.57
4:FW:108:GLN:HG3	4:FW:126:ILE:HD11	1.85	0.57
4:FW:109:GLY:HA3	4:FW:122:ILE:HA	1.86	0.57
2:BX:206:MET:HB2	2:BX:211:GLU:HB3	1.86	0.57
2:BX:230:ILE:HA	2:BX:233:MET:HG2	1.84	0.57
2:B3:236:PHE:HD1	2:B3:309:LEU:HG	1.69	0.57
1:A8:535:ARG:HH22	2:B8:60:GLU:HB2	1.69	0.57
2:B8:236:PHE:HD1	2:B8:309:LEU:HG	1.69	0.57
4:F9:127:THR:OG1	4:F9:130:GLU:OE1	2.19	0.57
3:CC:191:ILE:HG23	3:CC:192:THR:HG23	1.86	0.57
3:CC:302:LEU:HD13	3:CC:317:VAL:HG23	1.85	0.57
3:CD:191:ILE:HG23	3:CD:192:THR:HG23	1.86	0.57
4:DF:64:LEU:HA	4:DF:101:ILE:HG22	1.86	0.57
4:EF:77:GLU:O	4:EF:81:LEU:HG	2.03	0.57
2:BK:206:MET:HB2	2:BK:211:GLU:HB3	1.86	0.57
3:CK:191:ILE:HG23	3:CK:192:THR:HG23	1.86	0.57
4:DM:134:ARG:HA	4:DM:137:ARG:HE	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FN:100:LEU:HG	4:FN:105:LEU:HA	1.84	0.57
4:DP:125:ILE:HG22	4:DP:126:ILE:H	1.68	0.57
2:BT:230:ILE:HA	2:BT:233:MET:HG2	1.84	0.57
3:CT:249:ASN:ND2	4:FU:125:ILE:HD13	2.20	0.57
3:CY:302:LEU:HB3	3:CY:320:LEU:HG	1.86	0.57
2:B2:236:PHE:HD1	2:B2:309:LEU:HG	1.69	0.57
4:F5:127:THR:OG1	4:F5:130:GLU:OE1	2.19	0.57
2:B9:146:LEU:HD22	2:BA:206:MET:SD	2.44	0.57
4:E9:68:LEU:HD23	4:F9:68:LEU:HD22	1.85	0.57
4:F9:100:LEU:HG	4:F9:105:LEU:HA	1.86	0.57
4:DA:64:LEU:HA	4:DA:101:ILE:HG22	1.85	0.57
2:BB:236:PHE:HD1	2:BB:309:LEU:HG	1.69	0.57
3:CB:149:THR:HG22	3:CB:152:ARG:HH22	1.67	0.57
2:BC:249:ARG:NH1	2:BC:249:ARG:O	2.36	0.57
4:DF:125:ILE:HG22	4:DF:126:ILE:H	1.68	0.57
1:AG:549:LEU:HD11	2:BH:46:GLN:H	1.68	0.57
3:CI:191:ILE:HG23	3:CI:192:THR:HG23	1.86	0.57
4:EJ:130:GLU:O	4:EJ:134:ARG:NH1	2.37	0.57
2:BM:236:PHE:HD1	2:BM:309:LEU:HG	1.69	0.57
4:FM:74:THR:OG1	4:FM:77:GLU:OE1	2.15	0.57
3:CO:185:GLN:HB2	3:CO:188:PHE:CD2	2.39	0.57
2:BR:87:GLU:OE2	2:BR:91:SER:OG	2.23	0.57
2:BS:87:GLU:OE2	2:BS:91:SER:OG	2.23	0.57
2:BT:236:PHE:HD1	2:BT:309:LEU:HG	1.69	0.57
2:BT:249:ARG:NH1	2:BT:249:ARG:O	2.36	0.57
4:DX:134:ARG:HA	4:DX:137:ARG:HE	1.67	0.57
4:FX:54:ILE:HG13	4:FX:55:ASP:H	1.68	0.57
2:B3:206:MET:HB2	2:B3:211:GLU:HB3	1.86	0.57
4:E6:130:GLU:O	4:E6:134:ARG:NH1	2.36	0.57
4:E7:70:ARG:NH2	4:E7:98:ASP:OD2	2.27	0.57
4:F7:127:THR:OG1	4:F7:130:GLU:OE1	2.19	0.57
3:C9:272:LEU:HD23	4:D9:60:ILE:HB	1.86	0.57
4:F9:105:LEU:HD21	4:F9:126:ILE:HG21	1.87	0.57
3:CB:191:ILE:HG23	3:CB:192:THR:HG23	1.86	0.57
3:CF:302:LEU:HD13	3:CF:317:VAL:HG23	1.87	0.57
2:BH:131:ALA:HB1	2:BH:161:ILE:HD11	1.86	0.57
2:BH:230:ILE:HA	2:BH:233:MET:HG2	1.84	0.57
4:DH:125:ILE:HG22	4:DH:126:ILE:H	1.68	0.57
2:BK:134:LEU:HD21	2:BK:146:LEU:HD12	1.85	0.57
3:CK:302:LEU:HD13	3:CK:317:VAL:HG23	1.87	0.57
4:DK:125:ILE:HG22	4:DK:126:ILE:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:131:ALA:HB1	2:BL:161:ILE:HD11	1.87	0.57
2:BL:206:MET:HB2	2:BL:211:GLU:HB3	1.87	0.57
3:CL:191:ILE:HG23	3:CL:192:THR:HG23	1.86	0.57
2:BN:101:ARG:HH22	2:BO:42:ALA:HB3	1.69	0.57
2:BP:206:MET:HB2	2:BP:211:GLU:HB3	1.87	0.57
3:CQ:185:GLN:HB2	3:CQ:188:PHE:CD2	2.39	0.57
2:BR:206:MET:HB2	2:BR:211:GLU:HB3	1.87	0.57
2:BR:230:ILE:HA	2:BR:233:MET:HG2	1.85	0.57
4:FR:71:THR:HG22	4:FR:89:LEU:HA	1.85	0.57
2:BS:236:PHE:HD1	2:BS:309:LEU:HG	1.69	0.57
3:CS:299:VAL:HG23	4:FS:132:MET:HG2	1.86	0.57
2:BV:206:MET:HB2	2:BV:211:GLU:HB3	1.87	0.57
2:BV:243:ASP:OD2	2:BW:297:ARG:NH2	2.37	0.57
3:CX:302:LEU:HB3	3:CX:320:LEU:HG	1.86	0.57
2:BY:129:ILE:HD11	2:BY:178:VAL:HG11	1.86	0.57
4:D3:104:TYR:HD2	4:E3:60:ILE:HD13	1.69	0.57
4:F3:127:THR:OG1	4:F3:130:GLU:OE1	2.19	0.57
2:B4:101:ARG:HH22	2:B5:42:ALA:HB3	1.70	0.57
3:C5:299:VAL:HG23	4:F5:132:MET:HG2	1.87	0.57
2:B7:249:ARG:NH1	2:B7:249:ARG:O	2.37	0.57
3:C8:302:LEU:HD13	3:C8:317:VAL:HG23	1.86	0.57
3:CE:105:ILE:HD11	3:CE:116:VAL:HG12	1.85	0.57
3:CE:185:GLN:HB2	3:CE:188:PHE:CD2	2.39	0.57
2:BH:218:VAL:HG13	2:BH:226:ALA:HB2	1.87	0.57
2:BN:87:GLU:OE2	2:BN:91:SER:OG	2.23	0.57
4:DN:104:TYR:HD2	4:EN:60:ILE:HD13	1.69	0.57
2:BP:87:GLU:OE2	2:BP:91:SER:OG	2.23	0.57
2:BR:14:LEU:HD23	2:BR:17:ILE:HD11	1.86	0.57
2:BR:243:ASP:OD2	2:BS:297:ARG:NH2	2.37	0.57
2:BT:243:ASP:OD2	2:BU:297:ARG:NH2	2.37	0.57
3:CT:185:GLN:HB2	3:CT:188:PHE:CD2	2.40	0.57
1:AV:517:GLN:OE1	1:AV:517:GLN:N	2.38	0.57
3:CV:149:THR:HG22	3:CV:152:ARG:HH22	1.69	0.57
3:CV:302:LEU:HB3	3:CV:320:LEU:HG	1.87	0.57
2:BX:87:GLU:OE2	2:BX:91:SER:OG	2.22	0.57
3:CX:191:ILE:HG23	3:CX:192:THR:HG23	1.86	0.57
4:D1:125:ILE:HG22	4:D1:126:ILE:H	1.68	0.57
2:B2:4:LEU:HD11	2:B2:51:GLN:HB3	1.86	0.57
2:B5:206:MET:HB2	2:B5:211:GLU:HB3	1.86	0.57
2:B6:129:ILE:HD11	2:B6:178:VAL:HG11	1.86	0.57
2:B6:249:ARG:NH1	2:B6:249:ARG:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:131:ALA:HB1	2:B9:161:ILE:HD11	1.85	0.57
3:CC:185:GLN:HB2	3:CC:188:PHE:CD2	2.40	0.57
3:CF:299:VAL:HG23	4:FF:132:MET:HG2	1.85	0.57
2:BG:87:GLU:OE2	2:BG:91:SER:OG	2.22	0.57
3:CG:302:LEU:HB3	3:CG:320:LEU:HG	1.86	0.57
3:CH:299:VAL:HG23	4:FH:132:MET:HG2	1.86	0.57
2:BK:243:ASP:OD2	2:BL:297:ARG:NH2	2.38	0.57
3:CK:185:GLN:HB2	3:CK:188:PHE:CD2	2.39	0.57
1:AL:535:ARG:HH22	2:BL:60:GLU:HB2	1.70	0.57
2:BL:46:GLN:NE2	2:BL:47:ILE:O	2.38	0.57
2:BL:236:PHE:HD1	2:BL:309:LEU:HG	1.69	0.57
2:BM:87:GLU:OE2	2:BM:91:SER:OG	2.23	0.57
3:CM:185:GLN:HB2	3:CM:188:PHE:CD2	2.39	0.57
3:CM:302:LEU:HD13	3:CM:317:VAL:HG23	1.86	0.57
2:BO:194:GLY:O	2:BO:198:THR:OG1	2.18	0.57
3:CP:250:LEU:HD22	4:EQ:79:LEU:HA	1.85	0.57
4:FQ:54:ILE:HG13	4:FQ:55:ASP:H	1.70	0.57
2:BS:129:ILE:HD11	2:BS:178:VAL:HG11	1.87	0.57
2:BT:87:GLU:OE2	2:BT:91:SER:OG	2.23	0.57
4:DU:102:ASN:ND2	4:EU:61:PRO:O	2.37	0.57
4:DU:134:ARG:HA	4:DU:137:ARG:HE	1.69	0.57
2:BX:236:PHE:HD1	2:BX:309:LEU:HG	1.69	0.57
3:CX:242:GLU:HB2	3:CX:246:TRP:HD1	1.69	0.57
4:FX:54:ILE:HG13	4:FX:55:ASP:N	2.20	0.57
4:FY:54:ILE:HG13	4:FY:55:ASP:H	1.70	0.57
2:B4:249:ARG:NH1	2:B4:249:ARG:O	2.37	0.57
2:B5:249:ARG:NH1	2:B5:249:ARG:O	2.37	0.57
3:C5:191:ILE:HG23	3:C5:192:THR:HG23	1.86	0.57
4:D5:105:LEU:O	4:D5:131:ARG:NH1	2.36	0.57
2:B8:249:ARG:NH1	2:B8:249:ARG:O	2.37	0.57
3:CA:249:ASN:HB3	4:FB:125:ILE:HD13	1.86	0.57
4:DD:105:LEU:O	4:DD:131:ARG:NH1	2.37	0.57
2:BF:206:MET:HB2	2:BF:211:GLU:HB3	1.87	0.57
3:CI:185:GLN:HB2	3:CI:188:PHE:CD2	2.39	0.57
3:CK:299:VAL:HG23	4:FK:132:MET:HG2	1.85	0.57
2:BR:129:ILE:HD11	2:BR:178:VAL:HG11	1.87	0.57
2:BR:236:PHE:HD1	2:BR:309:LEU:HG	1.69	0.57
2:BU:236:PHE:HD1	2:BU:309:LEU:HG	1.69	0.57
4:DU:104:TYR:HD2	4:EU:60:ILE:HD13	1.70	0.57
2:BV:87:GLU:OE2	2:BV:91:SER:OG	2.22	0.57
2:BV:249:ARG:NH1	2:BV:249:ARG:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:191:ILE:HG23	3:CV:192:THR:HG23	1.86	0.57
4:DV:102:ASN:ND2	4:EV:61:PRO:O	2.37	0.57
4:FV:109:GLY:HA3	4:FV:122:ILE:HA	1.87	0.57
4:DY:64:LEU:HA	4:DY:101:ILE:HG22	1.86	0.57
2:B1:206:MET:HB2	2:B1:211:GLU:HB3	1.87	0.57
4:D2:105:LEU:O	4:D2:131:ARG:NH1	2.37	0.57
2:B4:129:ILE:HD11	2:B4:178:VAL:HG11	1.87	0.57
2:B6:236:PHE:HD1	2:B6:309:LEU:HG	1.69	0.57
3:C6:191:ILE:HG23	3:C6:192:THR:HG23	1.86	0.57
4:D7:74:THR:OG1	4:D7:77:GLU:OE1	2.23	0.57
4:F8:127:THR:OG1	4:F8:130:GLU:OE1	2.19	0.57
2:BD:206:MET:HB2	2:BD:211:GLU:HB3	1.87	0.57
2:BE:249:ARG:NH1	2:BE:249:ARG:O	2.37	0.57
3:CE:191:ILE:HG23	3:CE:192:THR:HG23	1.86	0.57
2:BF:87:GLU:OE2	2:BF:91:SER:OG	2.22	0.57
2:BG:206:MET:HB2	2:BG:211:GLU:HB3	1.87	0.57
2:BG:249:ARG:NH1	2:BG:249:ARG:O	2.37	0.57
2:BH:87:GLU:OE2	2:BH:91:SER:OG	2.23	0.57
3:CH:191:ILE:HG23	3:CH:192:THR:HG23	1.86	0.57
2:BJ:87:GLU:OE2	2:BJ:91:SER:OG	2.23	0.57
2:BJ:206:MET:HB2	2:BJ:211:GLU:HB3	1.87	0.57
2:BP:236:PHE:HD1	2:BP:309:LEU:HG	1.70	0.57
2:BP:249:ARG:NH1	2:BP:249:ARG:O	2.37	0.57
3:CR:191:ILE:HG23	3:CR:192:THR:HG23	1.86	0.57
2:BS:249:ARG:NH1	2:BS:249:ARG:O	2.37	0.57
2:BU:249:ARG:NH1	2:BU:249:ARG:O	2.37	0.57
2:BY:87:GLU:OE2	2:BY:91:SER:OG	2.23	0.57
4:FY:108:GLN:HG3	4:FY:126:ILE:HD11	1.85	0.57
2:B1:46:GLN:H	1:AY:549:LEU:HD11	1.69	0.57
4:E1:70:ARG:NH2	4:E1:98:ASP:OD2	2.27	0.57
2:B2:206:MET:HB2	2:B2:211:GLU:HB3	1.87	0.57
2:B3:249:ARG:NH1	2:B3:249:ARG:O	2.37	0.57
2:B4:74:ASN:OD1	2:B4:75:GLU:N	2.38	0.57
4:F9:54:ILE:HG13	4:F9:55:ASP:H	1.70	0.57
2:BA:249:ARG:NH1	2:BA:249:ARG:O	2.37	0.57
3:CA:302:LEU:HD13	3:CA:317:VAL:HG23	1.87	0.57
2:BB:129:ILE:HD11	2:BB:178:VAL:HG11	1.87	0.57
2:BC:73:ALA:HB1	2:BD:42:ALA:HA	1.87	0.57
2:BE:236:PHE:HD1	2:BE:309:LEU:HG	1.69	0.57
4:DE:102:ASN:ND2	4:EE:61:PRO:O	2.38	0.57
3:CG:185:GLN:HB2	3:CG:188:PHE:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FH:108:GLN:HG3	4:FH:126:ILE:HD11	1.85	0.57
2:BI:236:PHE:HD1	2:BI:309:LEU:HG	1.70	0.57
2:BJ:230:ILE:HA	2:BJ:233:MET:HG2	1.85	0.57
4:EJ:74:THR:HA	4:FJ:61:PRO:HA	1.87	0.57
2:BO:87:GLU:OE2	2:BO:91:SER:OG	2.23	0.57
4:DQ:104:TYR:HD2	4:EQ:60:ILE:HD13	1.69	0.57
2:BR:101:ARG:HH22	2:BS:42:ALA:HB3	1.69	0.57
2:BR:249:ARG:NH1	2:BR:249:ARG:O	2.37	0.57
3:CR:249:ASN:ND2	4:FS:125:ILE:HD13	2.20	0.57
4:ES:77:GLU:O	4:ES:81:LEU:HG	2.04	0.57
2:BT:134:LEU:HD21	2:BT:146:LEU:HD12	1.86	0.57
2:BU:206:MET:HB2	2:BU:211:GLU:HB3	1.87	0.57
2:BV:131:ALA:HB1	2:BV:161:ILE:HD11	1.87	0.57
4:DX:104:TYR:HD2	4:EX:60:ILE:HD13	1.69	0.57
4:FX:101:ILE:HG12	4:FX:106:ILE:HD11	1.86	0.57
3:C2:253:GLN:NE2	4:F3:106:ILE:O	2.37	0.57
2:B6:74:ASN:OD1	2:B6:75:GLU:N	2.37	0.57
4:E6:109:GLY:HA3	4:E6:122:ILE:HA	1.86	0.57
2:B7:206:MET:HB2	2:B7:211:GLU:HB3	1.87	0.57
2:B7:236:PHE:HD1	2:B7:309:LEU:HG	1.69	0.57
4:E7:73:MET:CE	4:E7:78:LEU:HG	2.33	0.57
4:E7:130:GLU:O	4:E7:134:ARG:NH1	2.37	0.57
2:BB:249:ARG:NH1	2:BB:249:ARG:O	2.37	0.57
3:CB:302:LEU:HD13	3:CB:317:VAL:HG23	1.86	0.57
2:BC:101:ARG:HH22	2:BD:42:ALA:HB3	1.68	0.57
3:CD:302:LEU:HD13	3:CD:317:VAL:HG23	1.87	0.57
2:BE:206:MET:HB2	2:BE:211:GLU:HB3	1.87	0.57
3:CE:302:LEU:HD13	3:CE:317:VAL:HG23	1.87	0.57
2:BF:236:PHE:HD1	2:BF:309:LEU:HG	1.69	0.57
2:BF:249:ARG:NH1	2:BF:249:ARG:O	2.37	0.57
2:BI:206:MET:HB2	2:BI:211:GLU:HB3	1.87	0.57
4:DI:104:TYR:HD2	4:EI:60:ILE:HD13	1.70	0.57
2:BJ:136:HIS:NE2	2:BK:193:MET:SD	2.78	0.57
2:BK:236:PHE:HD1	2:BK:309:LEU:HG	1.69	0.57
2:BL:87:GLU:OE2	2:BL:91:SER:OG	2.23	0.57
2:BL:249:ARG:NH1	2:BL:249:ARG:O	2.37	0.57
3:CM:191:ILE:HG23	3:CM:192:THR:HG23	1.86	0.57
4:EM:109:GLY:HA3	4:EM:122:ILE:HA	1.87	0.57
2:BN:46:GLN:NE2	2:BN:47:ILE:O	2.38	0.57
2:BN:236:PHE:HD1	2:BN:309:LEU:HG	1.69	0.57
2:BO:129:ILE:HD11	2:BO:178:VAL:HG11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:206:MET:HB2	2:BO:211:GLU:HB3	1.87	0.57
2:BO:249:ARG:NH1	2:BO:249:ARG:O	2.37	0.57
2:BO:261:ILE:HG23	2:BO:296:VAL:HG11	1.87	0.57
3:CP:191:ILE:HG23	3:CP:192:THR:HG23	1.86	0.57
3:CQ:191:ILE:HG23	3:CQ:192:THR:HG23	1.86	0.57
3:CS:302:LEU:HD13	3:CS:317:VAL:HG23	1.87	0.57
4:DW:102:ASN:ND2	4:EW:61:PRO:O	2.38	0.57
2:B1:74:ASN:OD1	2:B1:75:GLU:N	2.38	0.56
2:B1:87:GLU:OE2	2:B1:91:SER:OG	2.23	0.56
3:C1:191:ILE:HG23	3:C1:192:THR:HG23	1.86	0.56
4:E2:61:PRO:HB2	4:F2:72:ARG:HH21	1.69	0.56
4:F7:71:THR:HG22	4:F7:89:LEU:HA	1.86	0.56
3:C8:299:VAL:HG23	4:F8:132:MET:HG2	1.86	0.56
3:CA:191:ILE:HG23	3:CA:192:THR:HG23	1.87	0.56
4:DA:73:MET:HG2	4:DA:77:GLU:OE1	2.05	0.56
4:DC:105:LEU:O	4:DC:131:ARG:NH1	2.37	0.56
4:DC:134:ARG:HA	4:DC:137:ARG:HE	1.69	0.56
2:BE:129:ILE:HD11	2:BE:178:VAL:HG11	1.88	0.56
3:CG:302:LEU:HD13	3:CG:317:VAL:HG23	1.87	0.56
2:BM:107:ILE:HD11	2:BM:136:HIS:NE2	2.20	0.56
2:BN:249:ARG:NH1	2:BN:249:ARG:O	2.37	0.56
2:BO:101:ARG:HH12	2:BP:42:ALA:HB3	1.70	0.56
1:AP:517:GLN:OE1	1:AP:517:GLN:N	2.38	0.56
3:CR:302:LEU:HD13	3:CR:317:VAL:HG23	1.87	0.56
4:FS:109:GLY:HA3	4:FS:122:ILE:HA	1.87	0.56
3:CV:302:LEU:HD13	3:CV:317:VAL:HG23	1.87	0.56
2:BW:87:GLU:OE2	2:BW:91:SER:OG	2.23	0.56
2:BW:206:MET:HB2	2:BW:211:GLU:HB3	1.87	0.56
2:BW:249:ARG:NH1	2:BW:249:ARG:O	2.37	0.56
2:BY:249:ARG:NH1	2:BY:249:ARG:O	2.37	0.56
2:B1:249:ARG:NH1	2:B1:249:ARG:O	2.37	0.56
2:B1:297:ARG:NH2	2:BY:243:ASP:OD2	2.38	0.56
2:B2:243:ASP:OD2	2:B3:297:ARG:NH2	2.38	0.56
2:B2:249:ARG:O	2:B2:249:ARG:NH1	2.37	0.56
4:D3:102:ASN:ND2	4:E3:61:PRO:O	2.38	0.56
2:B4:206:MET:HB2	2:B4:211:GLU:HB3	1.87	0.56
2:B4:243:ASP:OD2	2:B5:297:ARG:NH2	2.38	0.56
3:C4:46:VAL:HG13	3:C4:48:ARG:NH1	2.21	0.56
2:B6:243:ASP:OD2	2:B7:297:ARG:NH2	2.38	0.56
3:C7:191:ILE:HG23	3:C7:192:THR:HG23	1.86	0.56
3:C9:191:ILE:HG23	3:C9:192:THR:HG23	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:302:LEU:HD13	3:C9:317:VAL:HG23	1.87	0.56
2:BA:129:ILE:HD11	2:BA:178:VAL:HG11	1.87	0.56
2:BA:243:ASP:OD2	2:BB:297:ARG:NH2	2.39	0.56
4:FA:108:GLN:HG3	4:FA:126:ILE:HD11	1.87	0.56
2:BC:199:ALA:O	2:BC:203:ILE:HG12	2.05	0.56
3:CD:249:ASN:HB3	4:FE:125:ILE:HG21	1.87	0.56
2:BE:87:GLU:OE2	2:BE:91:SER:OG	2.23	0.56
4:DE:64:LEU:HA	4:DE:101:ILE:HG22	1.86	0.56
4:FE:71:THR:HG22	4:FE:89:LEU:HA	1.85	0.56
2:BG:129:ILE:HD11	2:BG:178:VAL:HG11	1.87	0.56
3:CG:46:VAL:HG13	3:CG:48:ARG:NH1	2.20	0.56
2:BH:236:PHE:HD1	2:BH:309:LEU:HG	1.69	0.56
3:CH:302:LEU:HD13	3:CH:317:VAL:HG23	1.86	0.56
4:FH:105:LEU:HD21	4:FH:126:ILE:HG21	1.87	0.56
2:BI:87:GLU:OE2	2:BI:91:SER:OG	2.23	0.56
3:CI:302:LEU:HD13	3:CI:317:VAL:HG23	1.87	0.56
2:BK:249:ARG:NH1	2:BK:249:ARG:O	2.37	0.56
3:CL:46:VAL:HG13	3:CL:48:ARG:NH1	2.20	0.56
4:EL:109:GLY:HA3	4:EL:122:ILE:HA	1.87	0.56
2:BM:249:ARG:NH1	2:BM:249:ARG:O	2.37	0.56
2:BO:236:PHE:HD1	2:BO:309:LEU:HG	1.69	0.56
2:BP:155:HIS:O	2:BP:159:LEU:HG	2.04	0.56
2:BQ:249:ARG:NH1	2:BQ:249:ARG:O	2.37	0.56
1:AS:532:MET:HA	1:AS:535:ARG:HG3	1.87	0.56
2:BT:74:ASN:OD1	2:BT:75:GLU:N	2.38	0.56
2:BT:129:ILE:HD11	2:BT:178:VAL:HG11	1.87	0.56
3:CT:248:ASP:O	3:CT:252:ARG:HG2	2.05	0.56
2:BU:87:GLU:OE2	2:BU:91:SER:OG	2.23	0.56
3:CU:185:GLN:HB2	3:CU:188:PHE:CD2	2.39	0.56
2:BX:74:ASN:OD1	2:BX:75:GLU:N	2.38	0.56
4:EX:109:GLY:HA3	4:EX:122:ILE:HA	1.87	0.56
2:BY:4:LEU:HD11	2:BY:51:GLN:HB3	1.87	0.56
2:BY:206:MET:HB2	2:BY:211:GLU:HB3	1.88	0.56
3:C1:71:ASN:O	3:C1:74:ARG:NH1	2.38	0.56
2:B2:74:ASN:OD1	2:B2:75:GLU:N	2.39	0.56
2:B3:74:ASN:OD1	2:B3:75:GLU:N	2.39	0.56
2:B3:131:ALA:HB1	2:B3:161:ILE:HD11	1.88	0.56
1:A4:517:GLN:OE1	1:A4:517:GLN:N	2.39	0.56
3:C4:299:VAL:HG23	4:F4:132:MET:HG2	1.88	0.56
4:E4:109:GLY:HA3	4:E4:122:ILE:HA	1.87	0.56
3:C5:46:VAL:HG13	3:C5:48:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:249:ASN:HD22	4:F6:125:ILE:HD13	1.71	0.56
1:A6:535:ARG:HH22	2:B6:60:GLU:HB2	1.70	0.56
4:F6:71:THR:HG22	4:F6:89:LEU:HA	1.87	0.56
2:B7:74:ASN:OD1	2:B7:75:GLU:N	2.38	0.56
3:C7:302:LEU:HD13	3:C7:317:VAL:HG23	1.87	0.56
3:C8:191:ILE:HG23	3:C8:192:THR:HG23	1.86	0.56
3:C9:71:ASN:O	3:C9:74:ARG:NH1	2.38	0.56
3:CA:46:VAL:HG13	3:CA:48:ARG:NH1	2.21	0.56
2:BB:87:GLU:OE2	2:BB:91:SER:OG	2.22	0.56
2:BB:136:HIS:CD2	2:BC:193:MET:HG3	2.40	0.56
2:BC:46:GLN:NE2	2:BC:47:ILE:O	2.39	0.56
2:BC:158:MET:HG2	2:BD:214:VAL:HG13	1.85	0.56
4:FC:74:THR:OG1	4:FC:77:GLU:OE1	2.16	0.56
2:BD:249:ARG:NH1	2:BD:249:ARG:O	2.37	0.56
3:CD:71:ASN:O	3:CD:74:ARG:NH1	2.38	0.56
3:CD:242:GLU:HG3	4:EE:82:THR:HB	1.87	0.56
4:FD:71:THR:HG22	4:FD:89:LEU:HA	1.85	0.56
1:AE:517:GLN:OE1	1:AE:517:GLN:N	2.38	0.56
2:BE:101:ARG:HH12	2:BF:42:ALA:HB3	1.70	0.56
2:BE:131:ALA:HB1	2:BE:161:ILE:HD11	1.85	0.56
2:BE:243:ASP:OD2	2:BF:297:ARG:NH2	2.38	0.56
3:CF:46:VAL:HG13	3:CF:48:ARG:NH1	2.21	0.56
3:CF:191:ILE:HG23	3:CF:192:THR:HG23	1.87	0.56
4:FG:74:THR:OG1	4:FG:77:GLU:OE1	2.16	0.56
3:CH:46:VAL:HG13	3:CH:48:ARG:NH1	2.20	0.56
1:AI:549:LEU:HD11	2:BJ:46:GLN:H	1.69	0.56
3:CI:71:ASN:O	3:CI:74:ARG:NH1	2.38	0.56
4:EI:109:GLY:HA3	4:EI:122:ILE:HA	1.87	0.56
4:FI:74:THR:OG1	4:FI:77:GLU:OE1	2.16	0.56
2:BK:46:GLN:NE2	2:BK:47:ILE:O	2.39	0.56
2:BK:87:GLU:OE2	2:BK:91:SER:OG	2.24	0.56
2:BL:129:ILE:HD11	2:BL:178:VAL:HG11	1.88	0.56
2:BM:93:LEU:HD12	2:BN:35:GLN:OE1	2.06	0.56
2:BM:199:ALA:O	2:BM:203:ILE:HG12	2.05	0.56
3:CM:71:ASN:O	3:CM:74:ARG:NH1	2.38	0.56
4:DM:105:LEU:O	4:DM:131:ARG:NH1	2.38	0.56
4:FM:71:THR:HG22	4:FM:89:LEU:HA	1.86	0.56
3:CO:191:ILE:HG23	3:CO:192:THR:HG23	1.86	0.56
2:BP:107:ILE:HD11	2:BP:136:HIS:CE1	2.39	0.56
3:CP:46:VAL:HG13	3:CP:48:ARG:NH1	2.20	0.56
4:DP:64:LEU:HA	4:DP:101:ILE:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:87:GLU:OE2	2:BQ:91:SER:OG	2.24	0.56
2:BQ:203:ILE:HA	2:BQ:206:MET:HG2	1.88	0.56
3:CR:248:ASP:O	3:CR:252:ARG:HG2	2.05	0.56
4:DR:73:MET:HG2	4:DR:77:GLU:OE1	2.05	0.56
2:BS:74:ASN:OD1	2:BS:75:GLU:N	2.38	0.56
2:BS:172:LEU:HD21	2:BT:189:LYS:HB3	1.87	0.56
2:BS:243:ASP:OD2	2:BT:297:ARG:NH2	2.38	0.56
4:ET:72:ARG:NH2	4:FT:62:VAL:O	2.38	0.56
2:BV:74:ASN:OD1	2:BV:75:GLU:N	2.38	0.56
2:BW:74:ASN:OD1	2:BW:75:GLU:N	2.38	0.56
2:BX:249:ARG:NH1	2:BX:249:ARG:O	2.37	0.56
4:EX:72:ARG:HE	4:EX:73:MET:N	2.03	0.56
4:FX:96:PRO:HB2	4:FX:108:GLN:HB3	1.87	0.56
4:FY:71:THR:HG22	4:FY:89:LEU:HA	1.87	0.56
2:B1:236:PHE:HD1	2:B1:309:LEU:HG	1.69	0.56
4:D2:104:TYR:HD2	4:E2:60:ILE:HD13	1.70	0.56
3:C9:258:GLU:OE2	4:D9:73:MET:N	2.39	0.56
3:CB:299:VAL:HG23	4:FB:132:MET:HG2	1.87	0.56
2:BD:87:GLU:OE2	2:BD:91:SER:OG	2.23	0.56
2:BD:101:ARG:HH22	2:BE:42:ALA:HB3	1.70	0.56
2:BD:199:ALA:O	2:BD:203:ILE:HG12	2.06	0.56
3:CD:46:VAL:HG13	3:CD:48:ARG:NH1	2.21	0.56
4:ED:72:ARG:HE	4:ED:73:MET:N	2.04	0.56
3:CE:46:VAL:HG13	3:CE:48:ARG:NH1	2.21	0.56
2:BF:4:LEU:HD11	2:BF:51:GLN:HB3	1.87	0.56
3:CG:191:ILE:HG23	3:CG:192:THR:HG23	1.86	0.56
3:CJ:71:ASN:O	3:CJ:74:ARG:NH1	2.39	0.56
3:CK:46:VAL:HG13	3:CK:48:ARG:NH1	2.21	0.56
3:CK:302:LEU:HB3	3:CK:320:LEU:HG	1.87	0.56
3:CL:242:GLU:HG3	4:EM:82:THR:HB	1.87	0.56
4:DP:135:LEU:HD22	4:EQ:132:MET:HG3	1.87	0.56
1:AQ:549:LEU:HD11	2:BR:46:GLN:H	1.69	0.56
2:BQ:236:PHE:HD1	2:BQ:309:LEU:HG	1.69	0.56
3:CQ:46:VAL:HG13	3:CQ:48:ARG:NH1	2.21	0.56
1:AR:535:ARG:HH22	2:BR:60:GLU:HB2	1.70	0.56
3:CR:46:VAL:HG13	3:CR:48:ARG:NH1	2.21	0.56
4:ER:72:ARG:NH2	4:FR:62:VAL:O	2.39	0.56
3:CT:191:ILE:HG23	3:CT:192:THR:HG23	1.86	0.56
3:CU:191:ILE:HG23	3:CU:192:THR:HG23	1.86	0.56
4:FU:100:LEU:HG	4:FU:105:LEU:HA	1.87	0.56
3:CV:299:VAL:HG23	4:FV:132:MET:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DV:134:ARG:HA	4:DV:137:ARG:HE	1.71	0.56
2:BW:129:ILE:HD11	2:BW:178:VAL:HG11	1.86	0.56
3:CW:191:ILE:HG23	3:CW:192:THR:HG23	1.87	0.56
3:CY:191:ILE:HG23	3:CY:192:THR:HG23	1.87	0.56
3:C1:299:VAL:HG23	4:F1:132:MET:HG2	1.87	0.56
3:C1:302:LEU:HD13	3:C1:317:VAL:HG23	1.86	0.56
1:A2:558:ASP:OD2	2:B2:5:SER:OG	2.23	0.56
3:C2:191:ILE:HG23	3:C2:192:THR:HG23	1.86	0.56
2:B3:87:GLU:OE2	2:B3:91:SER:OG	2.23	0.56
3:C3:191:ILE:HG23	3:C3:192:THR:HG23	1.86	0.56
2:B4:4:LEU:HD11	2:B4:51:GLN:HB3	1.87	0.56
2:B4:236:PHE:HD1	2:B4:309:LEU:HG	1.69	0.56
2:B6:46:GLN:NE2	2:B6:47:ILE:O	2.39	0.56
3:C6:258:GLU:OE2	4:D6:72:ARG:NH1	2.38	0.56
2:B7:1:MET:SD	2:B7:50:LYS:HE2	2.46	0.56
2:B7:129:ILE:HD11	2:B7:178:VAL:HG11	1.87	0.56
2:B8:74:ASN:OD1	2:B8:75:GLU:N	2.38	0.56
2:B8:87:GLU:OE2	2:B8:91:SER:OG	2.23	0.56
2:B8:129:ILE:HD11	2:B8:178:VAL:HG11	1.87	0.56
2:B8:206:MET:HB2	2:B8:211:GLU:HB3	1.87	0.56
2:B9:74:ASN:OD1	2:B9:75:GLU:N	2.39	0.56
2:B9:129:ILE:HD11	2:B9:178:VAL:HG11	1.87	0.56
3:C9:46:VAL:HG13	3:C9:48:ARG:NH1	2.21	0.56
3:CB:46:VAL:HG13	3:CB:48:ARG:NH1	2.21	0.56
3:CF:71:ASN:O	3:CF:74:ARG:NH1	2.39	0.56
3:CF:258:GLU:OE1	4:DF:73:MET:N	2.38	0.56
2:BG:327:GLU:OE1	2:BG:330:TYR:OH	2.23	0.56
1:AH:549:LEU:HD11	2:BI:46:GLN:H	1.71	0.56
2:BI:243:ASP:OD2	2:BJ:297:ARG:NH2	2.39	0.56
3:CI:46:VAL:HG13	3:CI:48:ARG:NH1	2.21	0.56
3:CJ:46:VAL:HG13	3:CJ:48:ARG:NH1	2.21	0.56
3:CP:71:ASN:O	3:CP:74:ARG:NH1	2.38	0.56
2:BU:261:ILE:HG23	2:BU:296:VAL:HG11	1.88	0.56
4:EV:109:GLY:HA3	4:EV:122:ILE:HA	1.87	0.56
2:BW:236:PHE:HD1	2:BW:309:LEU:HG	1.69	0.56
3:CW:46:VAL:HG13	3:CW:48:ARG:NH1	2.21	0.56
3:CX:46:VAL:HG13	3:CX:48:ARG:NH1	2.21	0.56
4:FX:74:THR:OG1	4:FX:77:GLU:OE1	2.16	0.56
2:BY:74:ASN:OD1	2:BY:75:GLU:N	2.39	0.56
2:BY:261:ILE:HG23	2:BY:296:VAL:HG11	1.88	0.56
3:CY:299:VAL:HG23	4:FY:132:MET:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:35:GLN:OE1	2:BY:93:LEU:HD12	2.06	0.56
4:F1:54:ILE:HG13	4:F1:55:ASP:N	2.20	0.56
2:B3:1:MET:SD	2:B3:50:LYS:HE2	2.46	0.56
3:C3:46:VAL:HG13	3:C3:48:ARG:NH1	2.21	0.56
1:A4:552:ARG:HD2	2:B5:45:ARG:HH12	1.70	0.56
2:B6:206:MET:HB2	2:B6:211:GLU:HB3	1.87	0.56
4:D6:105:LEU:O	4:D6:131:ARG:NH1	2.37	0.56
3:C7:302:LEU:HB3	3:C7:320:LEU:HG	1.86	0.56
2:B9:146:LEU:HD13	2:BA:206:MET:HE1	1.87	0.56
2:B9:249:ARG:NH1	2:B9:249:ARG:O	2.38	0.56
2:BA:46:GLN:NE2	2:BA:47:ILE:O	2.39	0.56
2:BB:74:ASN:OD1	2:BB:75:GLU:N	2.38	0.56
3:CB:242:GLU:HA	3:CB:246:TRP:CZ3	2.40	0.56
2:BC:236:PHE:HD1	2:BC:309:LEU:HG	1.69	0.56
3:CC:46:VAL:HG13	3:CC:48:ARG:NH1	2.21	0.56
2:BJ:249:ARG:NH1	2:BJ:249:ARG:O	2.37	0.56
2:BK:74:ASN:OD1	2:BK:75:GLU:N	2.38	0.56
3:CL:71:ASN:O	3:CL:74:ARG:NH1	2.38	0.56
1:AM:549:LEU:HD11	2:BN:46:GLN:H	1.70	0.56
3:CM:46:VAL:HG13	3:CM:48:ARG:NH1	2.21	0.56
4:FM:101:ILE:HG12	4:FM:106:ILE:HD11	1.86	0.56
2:BN:199:ALA:O	2:BN:203:ILE:HG12	2.06	0.56
3:CN:248:ASP:O	3:CN:252:ARG:HG2	2.05	0.56
4:DN:105:LEU:O	4:DN:131:ARG:NH1	2.38	0.56
3:CQ:248:ASP:O	3:CQ:252:ARG:HG2	2.05	0.56
4:DQ:134:ARG:HA	4:DQ:137:ARG:HE	1.70	0.56
3:CS:302:LEU:HB3	3:CS:320:LEU:HG	1.88	0.56
2:BU:74:ASN:OD1	2:BU:75:GLU:N	2.38	0.56
4:FU:107:ALA:HA	4:FU:126:ILE:HG12	1.88	0.56
3:CV:46:VAL:HG13	3:CV:48:ARG:NH1	2.21	0.56
2:BW:46:GLN:NE2	2:BW:47:ILE:O	2.39	0.56
3:CW:302:LEU:HB3	3:CW:320:LEU:HG	1.87	0.56
2:BX:261:ILE:HG23	2:BX:296:VAL:HG11	1.88	0.56
3:CX:302:LEU:HD13	3:CX:317:VAL:HG23	1.88	0.56
3:C1:302:LEU:HB3	3:C1:320:LEU:HG	1.87	0.56
2:B2:134:LEU:HD21	2:B2:146:LEU:HD12	1.88	0.56
2:B2:261:ILE:HG23	2:B2:296:VAL:HG11	1.88	0.56
4:F3:108:GLN:HG3	4:F3:126:ILE:HD11	1.87	0.56
3:C4:318:GLU:O	4:D4:83:GLN:NE2	2.39	0.56
4:F4:71:THR:HG22	4:F4:89:LEU:HA	1.86	0.56
2:B5:327:GLU:OE1	2:B5:330:TYR:OH	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F6:74:THR:OG1	4:F6:77:GLU:OE1	2.16	0.56
1:A8:532:MET:HA	1:A8:535:ARG:HG3	1.88	0.56
3:C8:46:VAL:HG13	3:C8:48:ARG:NH1	2.21	0.56
1:AA:535:ARG:HH22	2:BA:60:GLU:HB2	1.70	0.56
3:CA:71:ASN:O	3:CA:74:ARG:NH1	2.39	0.56
3:CA:253:GLN:NE2	4:FB:106:ILE:O	2.33	0.56
2:BC:93:LEU:HD12	2:BD:35:GLN:OE1	2.06	0.56
3:CC:71:ASN:O	3:CC:74:ARG:NH1	2.39	0.56
4:EH:68:LEU:HG	4:FH:66:VAL:HG23	1.88	0.56
4:EH:109:GLY:HA3	4:EH:122:ILE:HA	1.88	0.56
2:BI:93:LEU:HD12	2:BJ:35:GLN:OE1	2.05	0.56
2:BI:249:ARG:NH1	2:BI:249:ARG:O	2.37	0.56
4:DK:102:ASN:ND2	4:EK:61:PRO:O	2.38	0.56
2:BM:243:ASP:OD2	2:BN:297:ARG:NH2	2.39	0.56
3:CN:191:ILE:HG23	3:CN:192:THR:HG23	1.86	0.56
3:CO:302:LEU:HD13	3:CO:317:VAL:HG23	1.87	0.56
2:BP:74:ASN:OD1	2:BP:75:GLU:N	2.38	0.56
3:CQ:299:VAL:HG23	4:FQ:132:MET:HG2	1.88	0.56
4:DQ:102:ASN:ND2	4:EQ:61:PRO:O	2.38	0.56
4:DS:105:LEU:O	4:DS:131:ARG:NH1	2.37	0.56
2:BT:203:ILE:HA	2:BT:206:MET:HG2	1.88	0.56
1:AU:549:LEU:HD11	2:BV:46:GLN:H	1.69	0.56
4:DU:105:LEU:O	4:DU:131:ARG:NH1	2.37	0.56
4:DV:64:LEU:HA	4:DV:101:ILE:HG22	1.86	0.56
1:AY:517:GLN:OE1	1:AY:517:GLN:N	2.39	0.56
2:B1:129:ILE:HD11	2:B1:178:VAL:HG11	1.88	0.56
2:B2:87:GLU:OE2	2:B2:91:SER:OG	2.23	0.56
3:C2:318:GLU:O	4:D2:83:GLN:NE2	2.39	0.56
3:C4:185:GLN:HB2	3:C4:188:PHE:CD2	2.41	0.56
3:C4:191:ILE:HG23	3:C4:192:THR:HG23	1.86	0.56
1:A6:532:MET:HA	1:A6:535:ARG:HG3	1.88	0.56
2:B6:87:GLU:OE2	2:B6:91:SER:OG	2.23	0.56
3:C6:46:VAL:HG13	3:C6:48:ARG:NH1	2.21	0.56
1:A7:532:MET:HA	1:A7:535:ARG:HG3	1.88	0.56
2:B7:199:ALA:O	2:B7:203:ILE:HG12	2.06	0.56
1:A9:532:MET:HA	1:A9:535:ARG:HG3	1.88	0.56
1:AA:549:LEU:HD11	2:BB:46:GLN:H	1.71	0.56
2:BA:87:GLU:OE2	2:BA:91:SER:OG	2.23	0.56
2:BB:4:LEU:HD11	2:BB:51:GLN:HB3	1.87	0.56
2:BB:199:ALA:O	2:BB:203:ILE:HG12	2.06	0.56
2:BC:87:GLU:OE2	2:BC:91:SER:OG	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:109:GLY:HA3	4:FC:122:ILE:HA	1.88	0.56
3:CF:249:ASN:HB3	4:FG:125:ILE:HG21	1.87	0.56
3:CG:71:ASN:O	3:CG:74:ARG:NH1	2.39	0.56
4:DG:64:LEU:HA	4:DG:101:ILE:HG22	1.86	0.56
2:BH:249:ARG:NH1	2:BH:249:ARG:O	2.37	0.56
4:DL:105:LEU:O	4:DL:131:ARG:NH1	2.38	0.56
4:FN:101:ILE:HG23	4:FN:106:ILE:HG13	1.87	0.56
3:CP:302:LEU:HB3	3:CP:320:LEU:HG	1.88	0.56
1:AR:532:MET:HA	1:AR:535:ARG:HG3	1.88	0.56
3:CS:253:GLN:NE2	4:FT:125:ILE:HB	2.21	0.56
3:CT:71:ASN:O	3:CT:74:ARG:NH1	2.38	0.56
3:CT:302:LEU:HD13	3:CT:317:VAL:HG23	1.86	0.56
3:CU:71:ASN:O	3:CU:74:ARG:NH1	2.39	0.56
3:CX:87:GLN:HE21	3:CX:199:VAL:HG23	1.71	0.56
3:CX:299:VAL:HG23	4:FX:132:MET:HG2	1.88	0.56
4:D1:102:ASN:ND2	4:E1:61:PRO:O	2.39	0.56
4:E1:109:GLY:HA3	4:E1:122:ILE:HA	1.88	0.56
3:C2:71:ASN:O	3:C2:74:ARG:NH1	2.38	0.56
4:E2:109:GLY:HA3	4:E2:122:ILE:HA	1.88	0.56
1:A4:549:LEU:HD11	2:B5:46:GLN:H	1.71	0.56
4:E6:73:MET:CE	4:E6:78:LEU:HG	2.34	0.56
4:F8:108:GLN:HG3	4:F8:126:ILE:HD11	1.87	0.56
4:D9:102:ASN:ND2	4:E9:61:PRO:O	2.39	0.56
2:BA:74:ASN:OD1	2:BA:75:GLU:N	2.38	0.56
4:EA:83:GLN:NE2	4:FA:123:THR:O	2.34	0.56
4:DB:105:LEU:O	4:DB:131:ARG:NH1	2.38	0.56
2:BC:206:MET:HB2	2:BC:211:GLU:HB3	1.88	0.56
4:DD:134:ARG:HA	4:DD:137:ARG:HE	1.69	0.56
2:BE:74:ASN:OD1	2:BE:75:GLU:N	2.38	0.56
3:CF:242:GLU:HG3	4:EG:82:THR:HB	1.87	0.56
2:BG:131:ALA:HB1	2:BG:161:ILE:HD11	1.86	0.56
4:DG:66:VAL:HG12	4:DG:99:ILE:HD13	1.87	0.56
4:DG:104:TYR:HD2	4:EG:60:ILE:HD13	1.70	0.56
4:DI:102:ASN:ND2	4:EI:61:PRO:O	2.38	0.56
3:CM:299:VAL:HG23	4:FM:132:MET:HG2	1.86	0.56
2:BN:129:ILE:HD11	2:BN:178:VAL:HG11	1.88	0.56
3:CO:46:VAL:HG13	3:CO:48:ARG:NH1	2.21	0.56
3:CQ:258:GLU:OE2	4:DQ:73:MET:N	2.38	0.56
2:BU:93:LEU:HD12	2:BV:35:GLN:OE1	2.06	0.56
4:DW:105:LEU:O	4:DW:131:ARG:NH1	2.38	0.56
2:B1:101:ARG:HH12	2:B2:42:ALA:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:46:VAL:HG13	3:C2:48:ARG:NH1	2.20	0.56
2:B3:261:ILE:HG23	2:B3:296:VAL:HG11	1.88	0.56
2:B4:87:GLU:OE2	2:B4:91:SER:OG	2.23	0.56
2:B4:133:ILE:HD13	2:B4:136:HIS:HE1	1.69	0.56
2:B5:87:GLU:OE2	2:B5:91:SER:OG	2.23	0.56
4:E5:109:GLY:HA3	4:E5:122:ILE:HA	1.88	0.56
4:F5:71:THR:HG22	4:F5:89:LEU:HA	1.88	0.56
2:B6:93:LEU:HD12	2:B7:35:GLN:OE1	2.06	0.56
2:B6:158:MET:CE	2:B7:218:VAL:HB	2.36	0.56
2:B7:87:GLU:OE2	2:B7:91:SER:OG	2.23	0.56
3:CC:318:GLU:O	4:DC:83:GLN:NE2	2.39	0.56
2:BE:1:MET:SD	2:BE:50:LYS:HE2	2.46	0.56
2:BE:46:GLN:NE2	2:BE:47:ILE:O	2.39	0.56
2:BE:93:LEU:HD12	2:BF:35:GLN:OE1	2.06	0.56
1:AF:549:LEU:HD11	2:BG:46:GLN:H	1.71	0.56
2:BF:74:ASN:OD1	2:BF:75:GLU:N	2.38	0.56
4:EF:109:GLY:HA3	4:EF:122:ILE:HA	1.87	0.56
2:BG:46:GLN:NE2	2:BG:47:ILE:O	2.39	0.56
2:BG:65:GLN:O	2:BH:48:SER:OG	2.14	0.56
2:BJ:46:GLN:NE2	2:BJ:47:ILE:O	2.39	0.56
2:BK:129:ILE:HD11	2:BK:178:VAL:HG11	1.88	0.56
4:FK:74:THR:OG1	4:FK:77:GLU:OE1	2.16	0.56
3:CN:302:LEU:HB3	3:CN:320:LEU:HG	1.88	0.56
2:BO:74:ASN:OD1	2:BO:75:GLU:N	2.38	0.56
4:EQ:74:THR:OG1	4:EQ:75:ILE:N	2.39	0.56
2:BR:46:GLN:NE2	2:BR:47:ILE:O	2.39	0.56
3:CS:46:VAL:HG13	3:CS:48:ARG:NH1	2.21	0.56
2:BT:261:ILE:HG23	2:BT:296:VAL:HG11	1.88	0.56
4:DT:134:ARG:HA	4:DT:137:ARG:HE	1.71	0.56
3:CW:299:VAL:HG23	4:FW:132:MET:HG2	1.88	0.56
2:BY:218:VAL:HG13	2:BY:226:ALA:HB2	1.87	0.56
3:CY:46:VAL:HG13	3:CY:48:ARG:NH1	2.21	0.56
4:EY:109:GLY:HA3	4:EY:122:ILE:HA	1.88	0.56
4:FY:127:THR:OG1	4:FY:130:GLU:OE1	2.19	0.56
2:B5:1:MET:SD	2:B5:50:LYS:HE2	2.46	0.55
3:C6:71:ASN:O	3:C6:74:ARG:NH1	2.39	0.55
3:C6:105:ILE:HD11	3:C6:116:VAL:HG12	1.86	0.55
4:D6:104:TYR:HD2	4:E6:60:ILE:HD13	1.70	0.55
4:E8:109:GLY:HA3	4:E8:122:ILE:HA	1.87	0.55
2:B9:218:VAL:HG13	2:B9:226:ALA:HB2	1.87	0.55
3:CA:87:GLN:HE21	3:CA:199:VAL:HG23	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:87:GLN:HE21	3:CE:199:VAL:HG23	1.71	0.55
3:CE:149:THR:HG22	3:CE:152:ARG:HH22	1.69	0.55
2:BF:129:ILE:HD11	2:BF:178:VAL:HG11	1.89	0.55
3:CF:87:GLN:HE21	3:CF:199:VAL:HG23	1.71	0.55
2:BH:74:ASN:OD1	2:BH:75:GLU:N	2.38	0.55
2:BH:129:ILE:HD11	2:BH:178:VAL:HG11	1.88	0.55
2:BI:74:ASN:OD1	2:BI:75:GLU:N	2.38	0.55
2:BI:132:THR:HA	2:BJ:193:MET:HE1	1.88	0.55
3:CI:87:GLN:HE21	3:CI:199:VAL:HG23	1.72	0.55
2:BK:261:ILE:HG23	2:BK:296:VAL:HG11	1.88	0.55
1:AL:517:GLN:N	1:AL:517:GLN:OE1	2.39	0.55
2:BM:101:ARG:HH22	2:BN:42:ALA:HB3	1.71	0.55
2:BN:127:PRO:HB2	2:BN:160:ARG:NE	2.21	0.55
2:BN:218:VAL:HG13	2:BN:226:ALA:HB2	1.88	0.55
3:CN:46:VAL:HG13	3:CN:48:ARG:NH1	2.21	0.55
2:BQ:199:ALA:O	2:BQ:203:ILE:HG12	2.05	0.55
3:CR:299:VAL:HG23	4:FR:132:MET:HG2	1.88	0.55
3:CS:191:ILE:HG23	3:CS:192:THR:HG23	1.87	0.55
4:FT:108:GLN:HG3	4:FT:126:ILE:HD11	1.86	0.55
2:BV:46:GLN:NE2	2:BV:47:ILE:O	2.39	0.55
2:BW:4:LEU:HD11	2:BW:51:GLN:HB3	1.88	0.55
2:BX:46:GLN:NE2	2:BX:47:ILE:O	2.39	0.55
3:CY:71:ASN:O	3:CY:74:ARG:NH1	2.39	0.55
4:D1:134:ARG:HA	4:D1:137:ARG:HE	1.71	0.55
3:C3:302:LEU:HB3	3:C3:320:LEU:HG	1.87	0.55
2:B4:261:ILE:HG23	2:B4:296:VAL:HG11	1.88	0.55
3:CD:240:ARG:NH2	3:CD:243:ASP:OD2	2.39	0.55
4:FG:96:PRO:HB2	4:FG:108:GLN:HB3	1.88	0.55
4:FK:101:ILE:HG23	4:FK:106:ILE:HG13	1.87	0.55
2:BL:261:ILE:HG23	2:BL:296:VAL:HG11	1.88	0.55
2:BM:73:ALA:HB1	2:BN:42:ALA:HA	1.87	0.55
2:BM:206:MET:HB2	2:BM:211:GLU:HB3	1.88	0.55
2:BN:74:ASN:OD1	2:BN:75:GLU:N	2.38	0.55
2:BN:155:HIS:O	2:BN:159:LEU:HG	2.06	0.55
3:CN:71:ASN:O	3:CN:74:ARG:NH1	2.39	0.55
1:AO:530:GLU:O	1:AO:534:GLN:HG2	2.07	0.55
3:CR:246:TRP:CD1	4:ES:82:THR:HA	2.41	0.55
2:BS:261:ILE:HG23	2:BS:296:VAL:HG11	1.89	0.55
3:CS:87:GLN:HE21	3:CS:199:VAL:HG23	1.72	0.55
2:BU:243:ASP:OD2	2:BV:297:ARG:NH2	2.38	0.55
3:CU:299:VAL:HG23	4:FU:132:MET:HG2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:302:LEU:HD13	3:CU:317:VAL:HG23	1.88	0.55
2:BV:261:ILE:HG23	2:BV:296:VAL:HG11	1.89	0.55
3:CW:87:GLN:HE21	3:CW:199:VAL:HG23	1.71	0.55
4:E7:109:GLY:HA3	4:E7:122:ILE:HA	1.88	0.55
2:B8:4:LEU:HD11	2:B8:51:GLN:HB3	1.88	0.55
2:B8:199:ALA:O	2:B8:203:ILE:HG12	2.07	0.55
4:F9:71:THR:HG22	4:F9:89:LEU:HA	1.87	0.55
4:F9:96:PRO:HB2	4:F9:108:GLN:HB3	1.89	0.55
3:CA:64:GLN:NE2	3:CA:67:MET:SD	2.80	0.55
1:AB:549:LEU:HD11	2:BC:46:GLN:H	1.71	0.55
4:EB:109:GLY:HA3	4:EB:122:ILE:HA	1.87	0.55
4:FC:100:LEU:HG	4:FC:105:LEU:HA	1.87	0.55
2:BD:4:LEU:HD11	2:BD:51:GLN:HB3	1.87	0.55
2:BD:218:VAL:HG13	2:BD:226:ALA:HB2	1.88	0.55
2:BG:74:ASN:OD1	2:BG:75:GLU:N	2.38	0.55
3:CH:71:ASN:O	3:CH:74:ARG:NH1	2.39	0.55
3:CI:302:LEU:HB3	3:CI:320:LEU:HG	1.87	0.55
3:CK:71:ASN:O	3:CK:74:ARG:NH1	2.39	0.55
1:AL:549:LEU:HD11	2:BM:46:GLN:H	1.71	0.55
3:CL:87:GLN:HE21	3:CL:199:VAL:HG23	1.72	0.55
3:CL:260:GLU:OE2	4:DL:72:ARG:NH2	2.37	0.55
2:BN:261:ILE:HG23	2:BN:296:VAL:HG11	1.89	0.55
1:AO:522:ARG:HB2	1:AO:526:ARG:HH21	1.70	0.55
2:BO:93:LEU:HD12	2:BP:35:GLN:OE1	2.06	0.55
4:FO:71:THR:HG22	4:FO:89:LEU:HA	1.87	0.55
2:BP:101:ARG:HH12	2:BQ:42:ALA:HB3	1.72	0.55
2:BQ:46:GLN:NE2	2:BQ:47:ILE:O	2.39	0.55
3:CQ:71:ASN:O	3:CQ:74:ARG:NH1	2.38	0.55
3:CQ:272:LEU:HD23	4:DQ:60:ILE:HB	1.87	0.55
2:BR:74:ASN:OD1	2:BR:75:GLU:N	2.38	0.55
4:FR:64:LEU:HA	4:FR:101:ILE:HA	1.88	0.55
2:BS:46:GLN:NE2	2:BS:47:ILE:O	2.39	0.55
3:CV:71:ASN:O	3:CV:74:ARG:NH1	2.39	0.55
3:CV:115:LEU:HB3	3:CV:218:CYS:HB3	1.88	0.55
2:B1:261:ILE:HG23	2:B1:296:VAL:HG11	1.89	0.55
2:B2:129:ILE:HD11	2:B2:178:VAL:HG11	1.87	0.55
4:E3:109:GLY:HA3	4:E3:122:ILE:HA	1.88	0.55
3:C4:71:ASN:O	3:C4:74:ARG:NH1	2.38	0.55
2:B5:74:ASN:OD1	2:B5:75:GLU:N	2.40	0.55
2:B5:261:ILE:HG23	2:B5:296:VAL:HG11	1.88	0.55
3:C5:71:ASN:O	3:C5:74:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B7:261:ILE:HG23	2:B7:296:VAL:HG11	1.88	0.55
4:D7:79:LEU:HG	4:F8:53:ASP:OD1	2.06	0.55
3:C8:249:ASN:HB3	4:F9:125:ILE:HG21	1.88	0.55
3:CA:242:GLU:HB2	3:CA:246:TRP:NE1	2.21	0.55
3:CB:71:ASN:O	3:CB:74:ARG:NH1	2.39	0.55
2:BC:134:LEU:HD21	2:BC:146:LEU:HD12	1.89	0.55
4:FC:64:LEU:HA	4:FC:101:ILE:HA	1.88	0.55
4:ED:72:ARG:HH22	4:FD:62:VAL:N	2.04	0.55
2:BE:199:ALA:O	2:BE:203:ILE:HG12	2.07	0.55
2:BH:199:ALA:O	2:BH:203:ILE:HG12	2.07	0.55
3:CI:64:GLN:NE2	3:CI:67:MET:SD	2.80	0.55
4:EI:74:THR:HA	4:FI:61:PRO:HA	1.88	0.55
2:BJ:131:ALA:HB1	2:BJ:161:ILE:HD11	1.88	0.55
2:BJ:199:ALA:O	2:BJ:203:ILE:HG12	2.06	0.55
4:DJ:64:LEU:HA	4:DJ:101:ILE:HG22	1.86	0.55
4:EK:101:ILE:HG22	4:EK:102:ASN:OD1	2.06	0.55
3:CL:240:ARG:NH2	3:CL:243:ASP:OD2	2.40	0.55
3:CN:302:LEU:HD13	3:CN:317:VAL:HG23	1.87	0.55
3:CO:87:GLN:HE21	3:CO:199:VAL:HG23	1.72	0.55
2:BP:194:GLY:O	2:BP:198:THR:OG1	2.20	0.55
3:CP:64:GLN:NE2	3:CP:67:MET:SD	2.80	0.55
2:BR:261:ILE:HG23	2:BR:296:VAL:HG11	1.88	0.55
3:CR:255:GLN:OE1	3:CR:256:HIS:ND1	2.39	0.55
4:ER:109:GLY:HA3	4:ER:122:ILE:HA	1.87	0.55
3:CS:71:ASN:O	3:CS:74:ARG:NH1	2.38	0.55
1:AT:549:LEU:HD11	2:BU:46:GLN:H	1.70	0.55
2:BU:46:GLN:NE2	2:BU:47:ILE:O	2.39	0.55
3:CV:87:GLN:HE21	3:CV:199:VAL:HG23	1.71	0.55
4:FV:101:ILE:HG23	4:FV:106:ILE:HG13	1.87	0.55
2:BW:261:ILE:HG23	2:BW:296:VAL:HG11	1.88	0.55
4:EW:109:GLY:HA3	4:EW:122:ILE:HA	1.88	0.55
2:BX:131:ALA:HB1	2:BX:161:ILE:HD11	1.88	0.55
2:BY:131:ALA:HB1	2:BY:161:ILE:HD11	1.89	0.55
3:C1:46:VAL:HG13	3:C1:48:ARG:NH1	2.20	0.55
3:C2:52:GLN:HE21	3:C2:234:PRO:HD3	1.72	0.55
3:C2:115:LEU:HB3	3:C2:218:CYS:HB3	1.88	0.55
3:C4:87:GLN:HE21	3:C4:199:VAL:HG23	1.72	0.55
3:C4:240:ARG:NH2	3:C4:243:ASP:OD2	2.40	0.55
4:D4:105:LEU:O	4:D4:131:ARG:NH1	2.38	0.55
2:B5:199:ALA:O	2:B5:203:ILE:HG12	2.07	0.55
2:BB:101:ARG:HH12	2:BC:42:ALA:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:87:GLN:HE21	3:CB:199:VAL:HG23	1.72	0.55
3:CB:244:GLN:HA	3:CB:247:ARG:HG3	1.89	0.55
2:BC:74:ASN:OD1	2:BC:75:GLU:N	2.40	0.55
2:BC:127:PRO:HB2	2:BC:160:ARG:NE	2.22	0.55
3:CD:272:LEU:HD23	4:DD:60:ILE:HB	1.88	0.55
3:CE:71:ASN:O	3:CE:74:ARG:NH1	2.39	0.55
2:BI:310:LEU:O	2:BI:314:ARG:HG2	2.07	0.55
2:BJ:74:ASN:OD1	2:BJ:75:GLU:N	2.38	0.55
3:CJ:318:GLU:O	4:DJ:83:GLN:NE2	2.39	0.55
3:CL:318:GLU:O	4:DL:83:GLN:NE2	2.39	0.55
2:BM:261:ILE:HG23	2:BM:296:VAL:HG11	1.88	0.55
3:CM:64:GLN:NE2	3:CM:67:MET:SD	2.80	0.55
2:BN:203:ILE:HA	2:BN:206:MET:HG2	1.89	0.55
3:CO:255:GLN:OE1	3:CO:256:HIS:ND1	2.40	0.55
3:CQ:87:GLN:HE21	3:CQ:199:VAL:HG23	1.71	0.55
3:CR:71:ASN:O	3:CR:74:ARG:NH1	2.39	0.55
4:FS:71:THR:HG22	4:FS:89:LEU:HA	1.87	0.55
2:BV:1:MET:SD	2:BV:50:LYS:HE2	2.46	0.55
3:CV:52:GLN:HE21	3:CV:234:PRO:HD3	1.72	0.55
2:BX:4:LEU:HD11	2:BX:51:GLN:HB3	1.87	0.55
3:CX:272:LEU:HD23	4:DX:60:ILE:HB	1.86	0.55
2:B1:4:LEU:HD11	2:B1:51:GLN:HB3	1.88	0.55
4:F1:71:THR:HG22	4:F1:89:LEU:HA	1.87	0.55
3:C3:71:ASN:O	3:C3:74:ARG:NH1	2.38	0.55
3:C7:46:VAL:HG13	3:C7:48:ARG:NH1	2.21	0.55
3:C7:71:ASN:O	3:C7:74:ARG:NH1	2.39	0.55
4:F8:96:PRO:HB2	4:F8:108:GLN:HB3	1.89	0.55
1:A9:549:LEU:HD11	2:BA:46:GLN:H	1.72	0.55
2:B9:87:GLU:OE2	2:B9:91:SER:OG	2.24	0.55
1:AA:532:MET:HA	1:AA:535:ARG:HG3	1.88	0.55
3:CA:302:LEU:HB3	3:CA:320:LEU:HG	1.88	0.55
4:FB:96:PRO:HB2	4:FB:108:GLN:HB3	1.89	0.55
2:BC:129:ILE:HD11	2:BC:178:VAL:HG11	1.89	0.55
2:BD:129:ILE:HD11	2:BD:178:VAL:HG11	1.89	0.55
2:BF:1:MET:SD	2:BF:50:LYS:HE2	2.46	0.55
2:BI:46:GLN:NE2	2:BI:47:ILE:O	2.40	0.55
4:FI:71:THR:HG22	4:FI:89:LEU:HA	1.88	0.55
2:BJ:4:LEU:HD11	2:BJ:51:GLN:HB3	1.88	0.55
2:BJ:327:GLU:OE1	2:BJ:330:TYR:OH	2.24	0.55
2:BL:74:ASN:OD1	2:BL:75:GLU:N	2.39	0.55
3:CL:249:ASN:OD1	3:CL:250:LEU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:517:GLN:OE1	1:AM:517:GLN:N	2.40	0.55
2:BM:74:ASN:OD1	2:BM:75:GLU:N	2.38	0.55
3:CM:87:GLN:HE21	3:CM:199:VAL:HG23	1.72	0.55
2:BO:1:MET:SD	2:BO:50:LYS:HE2	2.46	0.55
3:CO:71:ASN:O	3:CO:74:ARG:NH1	2.39	0.55
2:BP:310:LEU:O	2:BP:314:ARG:HG2	2.07	0.55
3:CP:87:GLN:HE21	3:CP:199:VAL:HG23	1.72	0.55
2:BQ:133:ILE:HD13	2:BQ:136:HIS:CE1	2.41	0.55
3:CQ:64:GLN:NE2	3:CQ:67:MET:SD	2.80	0.55
3:CR:64:GLN:NE2	3:CR:67:MET:SD	2.80	0.55
3:CR:87:GLN:HE21	3:CR:199:VAL:HG23	1.72	0.55
3:CT:46:VAL:HG13	3:CT:48:ARG:NH1	2.20	0.55
1:AU:532:MET:HA	1:AU:535:ARG:HG3	1.88	0.55
2:BU:4:LEU:HD11	2:BU:51:GLN:HB3	1.87	0.55
3:CU:46:VAL:HG13	3:CU:48:ARG:NH1	2.21	0.55
3:CV:248:ASP:O	3:CV:252:ARG:HG2	2.06	0.55
2:BW:243:ASP:OD2	2:BX:297:ARG:NH2	2.39	0.55
3:CW:71:ASN:O	3:CW:74:ARG:NH1	2.38	0.55
4:DX:105:LEU:O	4:DX:131:ARG:NH1	2.38	0.55
2:BY:127:PRO:HB2	2:BY:160:ARG:NE	2.21	0.55
2:BY:199:ALA:O	2:BY:203:ILE:HG12	2.06	0.55
4:F2:74:THR:OG1	4:F2:77:GLU:OE1	2.16	0.55
2:B3:12:ILE:HG12	2:B3:47:ILE:HG12	1.89	0.55
4:D3:134:ARG:HA	4:D3:137:ARG:HE	1.70	0.55
4:F3:96:PRO:HB2	4:F3:108:GLN:HB3	1.89	0.55
2:B4:93:LEU:HD12	2:B5:35:GLN:OE1	2.07	0.55
2:B6:310:LEU:O	2:B6:314:ARG:HG2	2.07	0.55
3:C6:115:LEU:HB3	3:C6:218:CYS:HB3	1.88	0.55
3:C7:299:VAL:HG23	4:F7:132:MET:HG2	1.88	0.55
2:B9:4:LEU:HD11	2:B9:51:GLN:HB3	1.88	0.55
2:B9:134:LEU:HD21	2:B9:146:LEU:HD12	1.88	0.55
3:C9:87:GLN:HE21	3:C9:199:VAL:HG23	1.72	0.55
4:EA:109:GLY:HA3	4:EA:122:ILE:HA	1.87	0.55
4:FA:109:GLY:HA3	4:FA:122:ILE:HA	1.89	0.55
2:BC:203:ILE:HD12	2:BC:214:VAL:HG11	1.87	0.55
2:BD:46:GLN:NE2	2:BD:47:ILE:O	2.40	0.55
1:AE:549:LEU:HD11	2:BF:46:GLN:H	1.72	0.55
3:CH:64:GLN:NE2	3:CH:67:MET:SD	2.80	0.55
3:CH:87:GLN:HE21	3:CH:199:VAL:HG23	1.72	0.55
3:CJ:291:ARG:NH1	3:CJ:318:GLU:OE1	2.38	0.55
1:AL:532:MET:HA	1:AL:535:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:261:LEU:HD13	4:DL:73:MET:HE2	1.89	0.55
2:BP:4:LEU:HD11	2:BP:51:GLN:HB3	1.89	0.55
2:BQ:93:LEU:HD12	2:BR:35:GLN:OE1	2.07	0.55
4:FQ:101:ILE:HG23	4:FQ:106:ILE:HG13	1.88	0.55
4:DR:105:LEU:O	4:DR:131:ARG:NH1	2.38	0.55
3:CU:240:ARG:NH2	3:CU:243:ASP:OD2	2.39	0.55
2:BW:1:MET:SD	2:BW:50:LYS:HE2	2.46	0.55
4:FY:101:ILE:HG23	4:FY:106:ILE:HG13	1.87	0.55
2:B2:310:LEU:O	2:B2:314:ARG:HG2	2.07	0.55
4:F2:71:THR:HG22	4:F2:89:LEU:HA	1.87	0.55
2:B4:1:MET:SD	2:B4:50:LYS:HE2	2.46	0.55
4:D5:134:ARG:HA	4:D5:137:ARG:HE	1.72	0.55
1:A7:535:ARG:HH22	2:B7:60:GLU:HB2	1.70	0.55
2:B8:261:ILE:HG23	2:B8:296:VAL:HG11	1.88	0.55
3:C9:64:GLN:NE2	3:C9:67:MET:SD	2.80	0.55
4:EC:77:GLU:O	4:EC:81:LEU:HG	2.06	0.55
3:CD:52:GLN:HE21	3:CD:234:PRO:HD3	1.72	0.55
4:FD:101:ILE:HG12	4:FD:106:ILE:HD11	1.87	0.55
2:BF:199:ALA:O	2:BF:203:ILE:HG12	2.07	0.55
2:BF:218:VAL:HG13	2:BF:226:ALA:HB2	1.89	0.55
3:CG:87:GLN:HE21	3:CG:199:VAL:HG23	1.72	0.55
4:EG:117:LYS:HE2	4:EG:117:LYS:HA	1.88	0.55
1:AH:535:ARG:HH22	2:BH:60:GLU:HB2	1.71	0.55
2:BI:199:ALA:O	2:BI:203:ILE:HG12	2.07	0.55
4:DI:135:LEU:HD22	4:EJ:132:MET:HG3	1.87	0.55
1:AJ:549:LEU:HD11	2:BK:46:GLN:H	1.71	0.55
4:EJ:109:GLY:HA3	4:EJ:122:ILE:HA	1.88	0.55
3:CL:64:GLN:NE2	3:CL:67:MET:SD	2.80	0.55
2:BM:131:ALA:O	2:BM:135:VAL:HG22	2.07	0.55
4:EO:109:GLY:HA3	4:EO:122:ILE:HA	1.88	0.55
1:AP:549:LEU:HD11	2:BQ:46:GLN:H	1.70	0.55
2:BP:46:GLN:NE2	2:BP:47:ILE:O	2.40	0.55
4:DP:66:VAL:HG12	4:DP:99:ILE:HD13	1.89	0.55
4:FU:71:THR:HG22	4:FU:89:LEU:HA	1.87	0.55
3:CX:52:GLN:HE21	3:CX:234:PRO:HD3	1.72	0.55
3:CY:87:GLN:HE21	3:CY:199:VAL:HG23	1.72	0.55
2:B1:46:GLN:NE2	2:B1:47:ILE:O	2.40	0.55
3:C4:52:GLN:HE21	3:C4:234:PRO:HD3	1.72	0.55
4:E4:98:ASP:HB2	4:E4:105:LEU:HD11	1.88	0.55
2:B6:199:ALA:O	2:B6:203:ILE:HG12	2.07	0.55
3:C6:52:GLN:HE21	3:C6:234:PRO:HD3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:255:GLN:HG2	4:D7:76:LYS:HG3	1.87	0.55
3:C8:296:VAL:HG13	3:C8:301:VAL:HG11	1.88	0.55
4:D8:134:ARG:HA	4:D8:137:ARG:HE	1.70	0.55
2:BA:261:ILE:HG23	2:BA:296:VAL:HG11	1.89	0.55
2:BA:310:LEU:O	2:BA:314:ARG:HG2	2.07	0.55
4:FB:64:LEU:HA	4:FB:101:ILE:HA	1.88	0.55
2:BD:261:ILE:HG23	2:BD:296:VAL:HG11	1.88	0.55
2:BE:310:LEU:O	2:BE:314:ARG:HG2	2.07	0.55
3:CE:64:GLN:NE2	3:CE:67:MET:SD	2.80	0.55
2:BG:4:LEU:HD11	2:BG:51:GLN:HB3	1.88	0.55
2:BG:199:ALA:O	2:BG:203:ILE:HG12	2.07	0.55
2:BG:261:ILE:HG23	2:BG:296:VAL:HG11	1.88	0.55
2:BH:261:ILE:HG23	2:BH:296:VAL:HG11	1.88	0.55
3:CH:242:GLU:HG3	4:EI:82:THR:HB	1.89	0.55
2:BK:4:LEU:HD11	2:BK:51:GLN:HB3	1.88	0.55
4:DK:135:LEU:HD22	4:EL:132:MET:HB3	1.89	0.55
4:FK:71:THR:HG22	4:FK:89:LEU:HA	1.87	0.55
2:BL:199:ALA:O	2:BL:203:ILE:HG12	2.07	0.55
2:BM:310:LEU:O	2:BM:314:ARG:HG2	2.07	0.55
2:BN:327:GLU:OE1	2:BN:330:TYR:OH	2.24	0.55
2:BO:134:LEU:HD21	2:BO:146:LEU:HD12	1.88	0.55
2:BS:155:HIS:O	2:BS:159:LEU:HG	2.07	0.55
3:CT:87:GLN:HE21	3:CT:199:VAL:HG23	1.72	0.55
3:CT:246:TRP:CD1	4:EU:82:THR:HA	2.42	0.55
2:BU:199:ALA:O	2:BU:203:ILE:HG12	2.06	0.55
2:BU:310:LEU:O	2:BU:314:ARG:HG2	2.07	0.55
3:CW:64:GLN:NE2	3:CW:67:MET:SD	2.80	0.55
2:B3:199:ALA:O	2:B3:203:ILE:HG12	2.07	0.55
3:C5:115:LEU:HB3	3:C5:218:CYS:HB3	1.89	0.55
3:C7:249:ASN:HB3	4:F8:125:ILE:HG21	1.89	0.55
3:C8:71:ASN:O	3:C8:74:ARG:NH1	2.39	0.55
2:BA:127:PRO:HB2	2:BA:160:ARG:NE	2.22	0.55
2:BB:127:PRO:HB2	2:BB:160:ARG:NE	2.22	0.55
4:EC:109:GLY:HA3	4:EC:122:ILE:HA	1.88	0.55
4:FC:96:PRO:HB2	4:FC:108:GLN:HB3	1.89	0.55
2:BD:127:PRO:HB2	2:BD:160:ARG:NE	2.22	0.55
4:EE:109:GLY:HA3	4:EE:122:ILE:HA	1.87	0.55
2:BG:127:PRO:HB2	2:BG:160:ARG:NE	2.22	0.55
2:BH:251:LEU:HD21	2:BH:274:PHE:CE1	2.42	0.55
3:CI:249:ASN:ND2	4:FJ:125:ILE:HG21	2.22	0.55
2:BL:1:MET:SD	2:BL:50:LYS:HE2	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:310:LEU:O	2:BL:314:ARG:HG2	2.07	0.55
3:CL:185:GLN:HB2	3:CL:188:PHE:CD2	2.41	0.55
2:BM:251:LEU:HD21	2:BM:274:PHE:CE1	2.42	0.55
4:DM:66:VAL:HG12	4:DM:99:ILE:HD13	1.89	0.55
3:CN:255:GLN:OE1	3:CN:256:HIS:ND1	2.40	0.55
1:AO:549:LEU:HD11	2:BP:46:GLN:H	1.70	0.55
3:CP:240:ARG:NH2	3:CP:243:ASP:OD2	2.40	0.55
2:BQ:310:LEU:O	2:BQ:314:ARG:HG2	2.07	0.55
2:BR:251:LEU:HD21	2:BR:274:PHE:CE1	2.42	0.55
2:BS:199:ALA:O	2:BS:203:ILE:HG12	2.06	0.55
4:ES:109:GLY:HA3	4:ES:122:ILE:HA	1.88	0.55
2:BT:46:GLN:NE2	2:BT:47:ILE:O	2.40	0.55
2:BT:310:LEU:O	2:BT:314:ARG:HG2	2.07	0.55
2:BU:218:VAL:HG13	2:BU:226:ALA:HB2	1.88	0.55
2:BU:251:LEU:HD21	2:BU:274:PHE:CE1	2.42	0.55
3:CU:250:LEU:HD22	4:EV:79:LEU:HA	1.87	0.55
2:BV:133:ILE:HD13	2:BV:136:HIS:CE1	2.42	0.55
2:BV:310:LEU:O	2:BV:314:ARG:HG2	2.07	0.55
2:BW:93:LEU:HD12	2:BX:35:GLN:OE1	2.06	0.55
2:BW:310:LEU:O	2:BW:314:ARG:HG2	2.07	0.55
3:CY:115:LEU:HB3	3:CY:218:CYS:HB3	1.88	0.55
1:A2:549:LEU:HD11	2:B3:46:GLN:H	1.72	0.54
2:B2:12:ILE:HG12	2:B2:47:ILE:HG12	1.89	0.54
2:B2:199:ALA:O	2:B2:203:ILE:HG12	2.07	0.54
1:A3:530:GLU:O	1:A3:534:GLN:HG2	2.07	0.54
2:B3:310:LEU:O	2:B3:314:ARG:HG2	2.07	0.54
4:E3:74:THR:HA	4:F3:61:PRO:HA	1.88	0.54
4:E3:101:ILE:HG22	4:E3:102:ASN:OD1	2.06	0.54
4:F3:71:THR:HG22	4:F3:89:LEU:HA	1.89	0.54
2:B4:199:ALA:O	2:B4:203:ILE:HG12	2.07	0.54
3:C4:64:GLN:NE2	3:C4:67:MET:SD	2.80	0.54
1:A5:530:GLU:O	1:A5:534:GLN:HG2	2.07	0.54
2:B5:251:LEU:HD21	2:B5:274:PHE:CE1	2.42	0.54
3:C5:87:GLN:HE21	3:C5:199:VAL:HG23	1.72	0.54
2:B7:4:LEU:HD11	2:B7:51:GLN:HB3	1.89	0.54
4:F7:107:ALA:HA	4:F7:126:ILE:HG12	1.89	0.54
3:C8:302:LEU:HB3	3:C8:320:LEU:HG	1.87	0.54
4:E9:72:ARG:NH1	4:F9:61:PRO:HB2	2.17	0.54
4:DA:105:LEU:O	4:DA:131:ARG:NH1	2.39	0.54
2:BB:251:LEU:HD21	2:BB:274:PHE:CE1	2.42	0.54
4:EB:77:GLU:O	4:EB:81:LEU:HG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:251:LEU:HD21	2:BD:274:PHE:CE1	2.42	0.54
2:BE:127:PRO:HB2	2:BE:160:ARG:NE	2.22	0.54
3:CF:52:GLN:HE21	3:CF:234:PRO:HD3	1.72	0.54
2:BH:46:GLN:NE2	2:BH:47:ILE:O	2.40	0.54
4:DH:134:ARG:HA	4:DH:137:ARG:HE	1.71	0.54
2:BI:131:ALA:HB1	2:BI:161:ILE:HD11	1.88	0.54
3:CJ:248:ASP:O	3:CJ:252:ARG:HG2	2.07	0.54
1:AK:530:GLU:O	1:AK:534:GLN:HG2	2.08	0.54
4:EK:73:MET:CE	4:EK:78:LEU:HG	2.34	0.54
2:BM:1:MET:SD	2:BM:50:LYS:HE2	2.46	0.54
4:FM:100:LEU:HG	4:FM:105:LEU:HA	1.89	0.54
2:BN:310:LEU:O	2:BN:314:ARG:HG2	2.07	0.54
3:CN:258:GLU:OE2	4:DN:72:ARG:NH1	2.40	0.54
4:DO:134:ARG:O	4:DO:137:ARG:NH1	2.40	0.54
2:BP:218:VAL:HG13	2:BP:226:ALA:HB2	1.89	0.54
3:CQ:255:GLN:OE1	3:CQ:256:HIS:ND1	2.40	0.54
3:CQ:318:GLU:O	4:DQ:83:GLN:NE2	2.39	0.54
4:DR:66:VAL:HG12	4:DR:99:ILE:HD13	1.89	0.54
2:BS:4:LEU:HD11	2:BS:51:GLN:HB3	1.88	0.54
2:BS:251:LEU:HD21	2:BS:274:PHE:CE1	2.42	0.54
3:CS:64:GLN:NE2	3:CS:67:MET:SD	2.80	0.54
2:BU:133:ILE:HD13	2:BU:136:HIS:CE1	2.42	0.54
1:AW:549:LEU:HD11	2:BX:46:GLN:H	1.71	0.54
2:BX:310:LEU:O	2:BX:314:ARG:HG2	2.07	0.54
3:C1:87:GLN:HE21	3:C1:199:VAL:HG23	1.72	0.54
3:C2:240:ARG:NH2	3:C2:243:ASP:OD2	2.41	0.54
3:C3:52:GLN:HE21	3:C3:234:PRO:HD3	1.72	0.54
3:C3:64:GLN:NE2	3:C3:67:MET:SD	2.80	0.54
3:C3:87:GLN:HE21	3:C3:199:VAL:HG23	1.72	0.54
4:F3:101:ILE:HG23	4:F3:106:ILE:HG13	1.88	0.54
3:C4:115:LEU:HB3	3:C4:218:CYS:HB3	1.89	0.54
2:B5:310:LEU:O	2:B5:314:ARG:HG2	2.07	0.54
3:C6:258:GLU:OE1	4:D6:73:MET:N	2.39	0.54
3:C6:302:LEU:HD13	3:C6:317:VAL:HG23	1.88	0.54
2:B7:310:LEU:O	2:B7:314:ARG:HG2	2.07	0.54
2:B8:251:LEU:HD21	2:B8:274:PHE:CE1	2.42	0.54
3:C8:87:GLN:HE21	3:C8:199:VAL:HG23	1.72	0.54
3:C8:115:LEU:HB3	3:C8:218:CYS:HB3	1.89	0.54
2:BC:261:ILE:HG23	2:BC:296:VAL:HG11	1.88	0.54
4:ED:109:GLY:HA3	4:ED:122:ILE:HA	1.88	0.54
3:CE:52:GLN:HE21	3:CE:234:PRO:HD3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:115:LEU:HB3	3:CE:218:CYS:HB3	1.88	0.54
2:BF:310:LEU:O	2:BF:314:ARG:HG2	2.07	0.54
3:CF:302:LEU:HB3	3:CF:320:LEU:HG	1.88	0.54
2:BH:310:LEU:O	2:BH:314:ARG:HG2	2.07	0.54
2:BI:127:PRO:HB2	2:BI:160:ARG:NE	2.21	0.54
2:BI:218:VAL:HG13	2:BI:226:ALA:HB2	1.90	0.54
2:BJ:127:PRO:HB2	2:BJ:160:ARG:NE	2.22	0.54
2:BK:1:MET:SD	2:BK:50:LYS:HE2	2.46	0.54
2:BK:199:ALA:O	2:BK:203:ILE:HG12	2.07	0.54
4:EK:109:GLY:HA3	4:EK:122:ILE:HA	1.88	0.54
1:AL:552:ARG:HD2	2:BM:45:ARG:HH12	1.73	0.54
3:CM:258:GLU:OE1	4:DM:73:MET:N	2.40	0.54
4:DN:66:VAL:HG12	4:DN:99:ILE:HD13	1.89	0.54
4:FN:108:GLN:HG3	4:FN:126:ILE:HD11	1.89	0.54
2:BO:127:PRO:HB2	2:BO:160:ARG:NE	2.22	0.54
2:BO:310:LEU:O	2:BO:314:ARG:HG2	2.07	0.54
2:BP:251:LEU:HD21	2:BP:274:PHE:CE1	2.42	0.54
4:EP:109:GLY:HA3	4:EP:122:ILE:HA	1.88	0.54
2:BR:127:PRO:HB2	2:BR:160:ARG:NE	2.22	0.54
4:DS:66:VAL:HG12	4:DS:99:ILE:HD13	1.89	0.54
3:CT:318:GLU:O	4:DT:83:GLN:NE2	2.39	0.54
4:FT:71:THR:HG22	4:FT:89:LEU:HA	1.87	0.54
2:BV:101:ARG:HH12	2:BW:42:ALA:HB3	1.72	0.54
3:CW:258:GLU:OE1	4:DW:73:MET:N	2.40	0.54
3:CX:71:ASN:O	3:CX:74:ARG:NH1	2.39	0.54
3:CY:255:GLN:OE1	3:CY:256:HIS:ND1	2.37	0.54
4:EY:68:LEU:HG	4:FY:66:VAL:HG23	1.90	0.54
1:A1:530:GLU:O	1:A1:534:GLN:HG2	2.07	0.54
2:B1:310:LEU:O	2:B1:314:ARG:HG2	2.07	0.54
2:B2:139:ARG:NH1	2:B3:201:GLU:OE1	2.37	0.54
2:B2:210:GLN:O	2:B2:214:VAL:HG23	2.08	0.54
3:C2:64:GLN:NE2	3:C2:67:MET:SD	2.80	0.54
2:B3:129:ILE:HD11	2:B3:178:VAL:HG11	1.88	0.54
2:B3:210:GLN:O	2:B3:214:VAL:HG23	2.07	0.54
3:C3:115:LEU:HB3	3:C3:218:CYS:HB3	1.90	0.54
2:B4:133:ILE:HD13	2:B4:136:HIS:CE1	2.41	0.54
4:F4:107:ALA:HB2	4:F4:125:ILE:HD12	1.89	0.54
1:A6:530:GLU:O	1:A6:534:GLN:HG2	2.08	0.54
1:A7:530:GLU:O	1:A7:534:GLN:HG2	2.07	0.54
2:B7:251:LEU:HD21	2:B7:274:PHE:CE1	2.42	0.54
3:C7:87:GLN:HE21	3:C7:199:VAL:HG23	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:552:ARG:HD2	2:B9:45:ARG:HH12	1.72	0.54
2:B8:127:PRO:HB2	2:B8:160:ARG:NE	2.22	0.54
2:B9:261:ILE:HG23	2:B9:296:VAL:HG11	1.89	0.54
2:B9:310:LEU:O	2:B9:314:ARG:HG2	2.07	0.54
2:BA:251:LEU:HD21	2:BA:274:PHE:CE1	2.42	0.54
3:CC:299:VAL:HG23	4:FC:132:MET:HG2	1.88	0.54
4:ED:128:PRO:HA	4:ED:131:ARG:HG3	1.90	0.54
2:BE:251:LEU:HD21	2:BE:274:PHE:CE1	2.43	0.54
2:BE:327:GLU:OE1	2:BE:330:TYR:OH	2.25	0.54
4:DE:134:ARG:HA	4:DE:137:ARG:HE	1.70	0.54
4:FH:71:THR:HG22	4:FH:89:LEU:HA	1.89	0.54
2:BJ:261:ILE:HG23	2:BJ:296:VAL:HG11	1.89	0.54
2:BJ:310:LEU:O	2:BJ:314:ARG:HG2	2.07	0.54
3:CJ:87:GLN:HE21	3:CJ:199:VAL:HG23	1.71	0.54
3:CK:87:GLN:HE21	3:CK:199:VAL:HG23	1.72	0.54
1:AL:530:GLU:O	1:AL:534:GLN:HG2	2.08	0.54
3:CL:52:GLN:HE21	3:CL:234:PRO:HD3	1.72	0.54
1:AQ:532:MET:HA	1:AQ:535:ARG:HG3	1.90	0.54
2:BQ:74:ASN:OD1	2:BQ:75:GLU:N	2.39	0.54
2:BQ:251:LEU:HD21	2:BQ:274:PHE:CE1	2.42	0.54
2:BR:4:LEU:HD11	2:BR:51:GLN:HB3	1.89	0.54
2:BT:101:ARG:HH12	2:BU:42:ALA:HB3	1.73	0.54
3:CU:64:GLN:NE2	3:CU:67:MET:SD	2.80	0.54
4:EU:109:GLY:HA3	4:EU:122:ILE:HA	1.88	0.54
3:CW:52:GLN:HE21	3:CW:234:PRO:HD3	1.72	0.54
2:B1:199:ALA:O	2:B1:203:ILE:HG12	2.07	0.54
4:E1:132:MET:HB3	4:DY:135:LEU:HD22	1.89	0.54
4:E2:128:PRO:HA	4:E2:131:ARG:HG3	1.90	0.54
4:F2:109:GLY:HA3	4:F2:122:ILE:HA	1.89	0.54
2:B5:251:LEU:HD21	2:B5:274:PHE:HE1	1.73	0.54
3:C7:52:GLN:HE21	3:C7:234:PRO:HD3	1.73	0.54
4:D9:134:ARG:HA	4:D9:137:ARG:HE	1.70	0.54
4:E9:109:GLY:HA3	4:E9:122:ILE:HA	1.88	0.54
4:E9:128:PRO:HA	4:E9:131:ARG:HG3	1.90	0.54
2:BB:310:LEU:O	2:BB:314:ARG:HG2	2.07	0.54
2:BD:310:LEU:O	2:BD:314:ARG:HG2	2.07	0.54
4:ED:72:ARG:NH2	4:FD:62:VAL:O	2.41	0.54
2:BF:127:PRO:HB2	2:BF:160:ARG:NE	2.22	0.54
3:CF:258:GLU:OE2	4:DF:72:ARG:NH1	2.41	0.54
4:FG:107:ALA:HB1	4:FG:124:ASP:O	2.08	0.54
3:CH:302:LEU:HB3	3:CH:320:LEU:HG	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:4:LEU:HD11	2:BI:51:GLN:HB3	1.88	0.54
2:BK:251:LEU:HD21	2:BK:274:PHE:CE1	2.42	0.54
2:BK:310:LEU:O	2:BK:314:ARG:HG2	2.07	0.54
2:BL:127:PRO:HB2	2:BL:160:ARG:NE	2.22	0.54
4:DL:66:VAL:HG12	4:DL:99:ILE:HD13	1.89	0.54
4:EL:98:ASP:HB2	4:EL:105:LEU:HD11	1.89	0.54
2:BM:263:LEU:HD22	2:BM:271:ARG:HG2	1.89	0.54
3:CN:87:GLN:HE21	3:CN:199:VAL:HG23	1.72	0.54
3:CN:258:GLU:OE1	4:DN:73:MET:N	2.40	0.54
1:AO:532:MET:HA	1:AO:535:ARG:HG3	1.90	0.54
2:BO:251:LEU:HD21	2:BO:274:PHE:CE1	2.42	0.54
4:DO:66:VAL:HG12	4:DO:99:ILE:HD13	1.89	0.54
4:DQ:66:VAL:HG12	4:DQ:99:ILE:HD13	1.89	0.54
2:BS:203:ILE:HD12	2:BS:214:VAL:HG11	1.90	0.54
3:CT:64:GLN:NE2	3:CT:67:MET:SD	2.80	0.54
4:ET:109:GLY:HA3	4:ET:122:ILE:HA	1.88	0.54
2:BV:251:LEU:HD21	2:BV:274:PHE:CE1	2.42	0.54
4:DV:66:VAL:HG12	4:DV:99:ILE:HD13	1.89	0.54
2:BX:199:ALA:O	2:BX:203:ILE:HG12	2.07	0.54
4:E1:128:PRO:HA	4:E1:131:ARG:HG3	1.90	0.54
1:A5:549:LEU:HD11	2:B6:46:GLN:H	1.72	0.54
4:D5:66:VAL:HG12	4:D5:99:ILE:HD13	1.89	0.54
2:B7:327:GLU:OE1	2:B7:330:TYR:OH	2.25	0.54
4:D7:66:VAL:HG12	4:D7:99:ILE:HD13	1.89	0.54
4:D8:66:VAL:HG12	4:D8:99:ILE:HD13	1.89	0.54
1:A9:530:GLU:O	1:A9:534:GLN:HG2	2.08	0.54
1:AA:530:GLU:O	1:AA:534:GLN:HG2	2.08	0.54
3:CA:242:GLU:HB2	3:CA:246:TRP:CD1	2.42	0.54
4:DA:66:VAL:HG12	4:DA:99:ILE:HD13	1.89	0.54
3:CB:302:LEU:HB3	3:CB:320:LEU:HG	1.88	0.54
1:AD:532:MET:HA	1:AD:535:ARG:HG3	1.90	0.54
1:AD:549:LEU:HD11	2:BE:46:GLN:H	1.70	0.54
3:CD:87:GLN:HE21	3:CD:199:VAL:HG23	1.72	0.54
3:CD:302:LEU:HB3	3:CD:320:LEU:HG	1.88	0.54
1:AF:530:GLU:O	1:AF:534:GLN:HG2	2.08	0.54
3:CF:240:ARG:NH2	3:CF:243:ASP:OD2	2.41	0.54
2:BI:263:LEU:HD22	2:BI:271:ARG:HG2	1.90	0.54
4:EL:74:THR:HA	4:FL:61:PRO:HA	1.90	0.54
3:CN:52:GLN:HE21	3:CN:234:PRO:HD3	1.72	0.54
3:CO:86:ILE:HG22	3:CO:198:ILE:HD11	1.90	0.54
3:CP:86:ILE:HG22	3:CP:198:ILE:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BS:310:LEU:O	2:BS:314:ARG:HG2	2.07	0.54
3:CS:248:ASP:O	3:CS:252:ARG:HG2	2.07	0.54
3:CW:115:LEU:HB3	3:CW:218:CYS:HB3	1.89	0.54
4:FX:64:LEU:HA	4:FX:101:ILE:HA	1.89	0.54
2:BY:251:LEU:HD21	2:BY:274:PHE:HE1	1.73	0.54
3:CY:302:LEU:HD13	3:CY:317:VAL:HG23	1.89	0.54
4:E3:105:LEU:O	4:E3:131:ARG:NH2	2.34	0.54
3:C4:86:ILE:HG22	3:C4:198:ILE:HD11	1.90	0.54
3:C5:64:GLN:NE2	3:C5:67:MET:SD	2.80	0.54
3:C5:86:ILE:HG22	3:C5:198:ILE:HD11	1.90	0.54
3:C6:87:GLN:HE21	3:C6:199:VAL:HG23	1.72	0.54
2:B7:101:ARG:HH12	2:B8:42:ALA:HB3	1.73	0.54
2:B8:251:LEU:HD21	2:B8:274:PHE:HE1	1.73	0.54
2:B8:327:GLU:OE1	2:B8:330:TYR:OH	2.25	0.54
3:C8:86:ILE:HG22	3:C8:198:ILE:HD11	1.90	0.54
4:D8:76:LYS:HD3	4:D8:79:LEU:HD13	1.89	0.54
2:BA:93:LEU:HD12	2:BB:35:GLN:OE1	2.06	0.54
3:CA:253:GLN:HG3	4:FB:131:ARG:HH22	1.72	0.54
4:FA:71:THR:HG22	4:FA:89:LEU:HA	1.89	0.54
4:DB:66:VAL:HG12	4:DB:99:ILE:HD13	1.89	0.54
3:CC:86:ILE:HG22	3:CC:198:ILE:HD11	1.90	0.54
4:EE:128:PRO:HA	4:EE:131:ARG:HG3	1.90	0.54
4:EF:128:PRO:HA	4:EF:131:ARG:HG3	1.90	0.54
3:CG:258:GLU:HA	4:DG:74:THR:HG22	1.90	0.54
4:DG:105:LEU:O	4:DG:131:ARG:NH1	2.40	0.54
3:CH:258:GLU:OE2	4:DH:73:MET:N	2.41	0.54
3:CI:115:LEU:HB3	3:CI:218:CYS:HB3	1.89	0.54
3:CI:291:ARG:NH1	3:CI:318:GLU:OE1	2.39	0.54
4:DJ:66:VAL:HG12	4:DJ:99:ILE:HD13	1.88	0.54
2:BL:158:MET:CE	2:BM:218:VAL:HB	2.37	0.54
3:CL:291:ARG:NH1	3:CL:318:GLU:OE1	2.38	0.54
2:BM:4:LEU:HD11	2:BM:51:GLN:HB3	1.88	0.54
1:AN:535:ARG:HH22	2:BN:60:GLU:HB2	1.71	0.54
3:CR:240:ARG:NH2	3:CR:243:ASP:OD2	2.41	0.54
1:AS:530:GLU:O	1:AS:534:GLN:HG2	2.08	0.54
3:CS:86:ILE:HG22	3:CS:198:ILE:HD11	1.90	0.54
2:BT:218:VAL:HG13	2:BT:226:ALA:HB2	1.88	0.54
3:CT:86:ILE:HG22	3:CT:198:ILE:HD11	1.90	0.54
3:CX:115:LEU:HB3	3:CX:218:CYS:HB3	1.89	0.54
2:BY:134:LEU:HD21	2:BY:146:LEU:HD12	1.89	0.54
2:B1:190:ARG:NH1	2:BY:167:VAL:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:115:LEU:HB3	3:C1:218:CYS:HB3	1.89	0.54
1:A2:530:GLU:O	1:A2:534:GLN:HG2	2.08	0.54
2:B2:93:LEU:HD12	2:B3:35:GLN:OE1	2.07	0.54
2:B2:101:ARG:HH12	2:B3:42:ALA:HB3	1.71	0.54
2:B7:218:VAL:HG13	2:B7:226:ALA:HB2	1.88	0.54
3:C7:240:ARG:NH2	3:C7:243:ASP:OD2	2.41	0.54
4:F7:54:ILE:HG13	4:F7:55:ASP:H	1.73	0.54
4:E8:68:LEU:HG	4:F8:66:VAL:HG23	1.90	0.54
2:B9:127:PRO:HB2	2:B9:160:ARG:NE	2.23	0.54
3:CB:86:ILE:HG22	3:CB:198:ILE:HD11	1.90	0.54
2:BC:4:LEU:HD11	2:BC:51:GLN:HB3	1.88	0.54
3:CC:87:GLN:HE21	3:CC:199:VAL:HG23	1.72	0.54
3:CD:64:GLN:NE2	3:CD:67:MET:SD	2.80	0.54
4:FD:64:LEU:HA	4:FD:101:ILE:HA	1.90	0.54
2:BE:134:LEU:HD21	2:BE:146:LEU:HD12	1.90	0.54
3:CE:302:LEU:HB3	3:CE:320:LEU:HG	1.88	0.54
2:BF:327:GLU:OE1	2:BF:330:TYR:OH	2.24	0.54
4:DF:66:VAL:HG12	4:DF:99:ILE:HD13	1.89	0.54
2:BJ:218:VAL:HG13	2:BJ:226:ALA:HB2	1.90	0.54
3:CJ:115:LEU:HB3	3:CJ:218:CYS:HB3	1.89	0.54
3:CK:52:GLN:HE21	3:CK:234:PRO:HD3	1.73	0.54
2:BL:78:ARG:NH1	2:BL:87:GLU:OE2	2.41	0.54
3:CL:86:ILE:HG22	3:CL:198:ILE:HD11	1.90	0.54
4:FL:96:PRO:HB2	4:FL:108:GLN:HB3	1.90	0.54
2:BO:251:LEU:HD21	2:BO:274:PHE:HE1	1.73	0.54
4:FP:71:THR:HG22	4:FP:89:LEU:HA	1.87	0.54
2:BR:199:ALA:O	2:BR:203:ILE:HG12	2.07	0.54
3:CR:115:LEU:HB3	3:CR:218:CYS:HB3	1.89	0.54
2:BT:158:MET:HE3	2:BU:214:VAL:O	2.08	0.54
2:BU:101:ARG:HH12	2:BV:42:ALA:HB3	1.73	0.54
2:BU:263:LEU:HD22	2:BU:271:ARG:HG2	1.90	0.54
3:CU:255:GLN:OE1	3:CU:256:HIS:ND1	2.41	0.54
1:AW:530:GLU:O	1:AW:534:GLN:HG2	2.08	0.54
3:CW:86:ILE:HG22	3:CW:198:ILE:HD11	1.90	0.54
3:CX:258:GLU:HA	4:DX:74:THR:HG22	1.90	0.54
4:EX:74:THR:HA	4:FX:61:PRO:HA	1.90	0.54
4:FX:71:THR:HG22	4:FX:89:LEU:HA	1.88	0.54
3:CY:248:ASP:O	3:CY:252:ARG:HG2	2.07	0.54
4:FY:96:PRO:HB2	4:FY:108:GLN:HB3	1.90	0.54
3:C1:64:GLN:NE2	3:C1:67:MET:SD	2.80	0.54
3:C1:86:ILE:HG22	3:C1:198:ILE:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:258:GLU:HA	4:D1:74:THR:HG22	1.90	0.54
4:F1:66:VAL:HG12	4:F1:99:ILE:HG13	1.90	0.54
3:C2:255:GLN:OE1	3:C2:256:HIS:ND1	2.40	0.54
3:C2:299:VAL:HG23	4:F2:132:MET:HG2	1.89	0.54
4:F2:108:GLN:HG3	4:F2:126:ILE:HD11	1.88	0.54
2:B3:263:LEU:HD22	2:B3:271:ARG:HG2	1.90	0.54
1:A5:517:GLN:OE1	1:A5:517:GLN:N	2.41	0.54
3:C6:86:ILE:HG22	3:C6:198:ILE:HD11	1.90	0.54
1:A8:530:GLU:O	1:A8:534:GLN:HG2	2.08	0.54
3:C8:240:ARG:NH2	3:C8:243:ASP:OD2	2.41	0.54
3:C9:302:LEU:HB3	3:C9:320:LEU:HG	1.88	0.54
4:E9:111:VAL:HG21	4:F9:68:LEU:HD11	1.90	0.54
2:BA:4:LEU:HD11	2:BA:51:GLN:HB3	1.89	0.54
3:CA:115:LEU:HB3	3:CA:218:CYS:HB3	1.89	0.54
2:BB:261:ILE:HG23	2:BB:296:VAL:HG11	1.89	0.54
1:AD:530:GLU:O	1:AD:534:GLN:HG2	2.08	0.54
2:BE:218:VAL:HG13	2:BE:226:ALA:HB2	1.90	0.54
2:BE:263:LEU:HD22	2:BE:271:ARG:HG2	1.90	0.54
2:BF:12:ILE:HG12	2:BF:47:ILE:HG12	1.90	0.54
3:CF:219:LEU:HD12	3:CF:223:MET:HG3	1.90	0.54
1:AG:530:GLU:O	1:AG:534:GLN:HG2	2.08	0.54
2:BG:218:VAL:HG13	2:BG:226:ALA:HB2	1.90	0.54
3:CH:240:ARG:NH2	3:CH:243:ASP:OD2	2.41	0.54
3:CH:291:ARG:NH1	3:CH:318:GLU:OE1	2.40	0.54
2:BI:251:LEU:HD21	2:BI:274:PHE:HE1	1.73	0.54
3:CK:249:ASN:HB3	4:FL:125:ILE:HG21	1.88	0.54
1:AN:549:LEU:HD11	2:BO:46:GLN:H	1.72	0.54
3:CN:86:ILE:HG22	3:CN:198:ILE:HD11	1.90	0.54
4:FN:74:THR:OG1	4:FN:77:GLU:OE1	2.16	0.54
4:EQ:109:GLY:HA3	4:EQ:122:ILE:HA	1.89	0.54
2:BR:251:LEU:HD21	2:BR:274:PHE:HE1	1.73	0.54
2:BS:127:PRO:HB2	2:BS:160:ARG:NE	2.22	0.54
1:AT:530:GLU:O	1:AT:534:GLN:HG2	2.08	0.54
2:BT:199:ALA:O	2:BT:203:ILE:HG12	2.07	0.54
3:CU:87:GLN:HE21	3:CU:199:VAL:HG23	1.71	0.54
3:CX:86:ILE:HG22	3:CX:198:ILE:HD11	1.90	0.54
2:BY:310:LEU:O	2:BY:314:ARG:HG2	2.07	0.54
2:B1:127:PRO:HB2	2:B1:160:ARG:NE	2.22	0.54
3:C1:242:GLU:HB2	3:C1:246:TRP:CD1	2.41	0.54
4:F1:64:LEU:HA	4:F1:101:ILE:HA	1.90	0.54
2:B2:194:GLY:O	2:B2:198:THR:OG1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:86:ILE:HG22	3:C2:198:ILE:HD11	1.90	0.54
1:A3:549:LEU:HD11	2:B4:46:GLN:H	1.73	0.54
2:B3:4:LEU:HD11	2:B3:51:GLN:HB3	1.90	0.54
1:A5:532:MET:HA	1:A5:535:ARG:HG3	1.90	0.54
3:C5:318:GLU:O	4:D5:83:GLN:NE2	2.41	0.54
3:C6:302:LEU:HB3	3:C6:320:LEU:HG	1.88	0.54
4:F6:64:LEU:HA	4:F6:101:ILE:HA	1.90	0.54
3:C7:86:ILE:HG22	3:C7:198:ILE:HD11	1.90	0.54
4:F8:71:THR:HG22	4:F8:89:LEU:HA	1.88	0.54
4:D9:66:VAL:HG12	4:D9:99:ILE:HD13	1.89	0.54
2:BA:251:LEU:HD21	2:BA:274:PHE:HE1	1.73	0.54
3:CF:86:ILE:HG22	3:CF:198:ILE:HD11	1.90	0.54
2:BH:127:PRO:HB2	2:BH:160:ARG:NE	2.22	0.54
3:CH:115:LEU:HB3	3:CH:218:CYS:HB3	1.88	0.54
4:DH:66:VAL:HG12	4:DH:99:ILE:HD13	1.89	0.54
4:DH:73:MET:SD	4:DH:78:LEU:HB3	2.48	0.54
4:DI:66:VAL:HG12	4:DI:99:ILE:HD13	1.89	0.54
3:CJ:86:ILE:HG22	3:CJ:198:ILE:HD11	1.90	0.54
2:BK:327:GLU:OE1	2:BK:330:TYR:OH	2.25	0.54
2:BL:73:ALA:HB1	2:BM:42:ALA:HA	1.89	0.54
2:BM:203:ILE:HA	2:BM:206:MET:HG2	1.90	0.54
4:FO:54:ILE:HG13	4:FO:55:ASP:H	1.72	0.54
2:BP:199:ALA:O	2:BP:203:ILE:HG12	2.07	0.54
3:CU:115:LEU:HB3	3:CU:218:CYS:HB3	1.89	0.54
1:AV:530:GLU:O	1:AV:534:GLN:HG2	2.08	0.54
2:BV:199:ALA:O	2:BV:203:ILE:HG12	2.07	0.54
3:CV:86:ILE:HG22	3:CV:198:ILE:HD11	1.90	0.54
2:BW:218:VAL:HG13	2:BW:226:ALA:HB2	1.89	0.54
3:CW:258:GLU:OE2	4:DW:72:ARG:NH1	2.40	0.54
4:FY:64:LEU:HA	4:FY:101:ILE:HA	1.90	0.54
4:D2:66:VAL:HG12	4:D2:99:ILE:HD13	1.89	0.54
4:D4:66:VAL:HG12	4:D4:99:ILE:HD13	1.89	0.54
3:C9:86:ILE:HG22	3:C9:198:ILE:HD11	1.90	0.54
2:BA:101:ARG:HH12	2:BB:42:ALA:HB3	1.73	0.54
2:BA:263:LEU:HD22	2:BA:271:ARG:HG2	1.90	0.54
1:AC:530:GLU:O	1:AC:534:GLN:HG2	2.08	0.54
2:BC:91:SER:O	2:BC:95:GLU:HG2	2.08	0.54
2:BD:74:ASN:OD1	2:BD:75:GLU:N	2.39	0.54
2:BD:251:LEU:HD21	2:BD:274:PHE:HE1	1.73	0.54
4:DD:66:VAL:HG12	4:DD:99:ILE:HD13	1.89	0.54
1:AE:530:GLU:O	1:AE:534:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:66:VAL:HG12	4:DE:99:ILE:HD13	1.89	0.54
2:BF:263:LEU:HD22	2:BF:271:ARG:HG2	1.90	0.54
4:FF:71:THR:HG22	4:FF:89:LEU:HA	1.88	0.54
1:AG:532:MET:HA	1:AG:535:ARG:HG3	1.90	0.54
3:CG:86:ILE:HG22	3:CG:198:ILE:HD11	1.90	0.54
1:AH:530:GLU:O	1:AH:534:GLN:HG2	2.08	0.54
3:CH:86:ILE:HG22	3:CH:198:ILE:HD11	1.90	0.54
2:BI:251:LEU:HD21	2:BI:274:PHE:CE1	2.42	0.54
2:BJ:101:ARG:HH12	2:BK:42:ALA:HB3	1.73	0.54
3:CK:86:ILE:HG22	3:CK:198:ILE:HD11	1.90	0.54
4:DK:66:VAL:HG12	4:DK:99:ILE:HD13	1.89	0.54
3:CL:115:LEU:HB3	3:CL:218:CYS:HB3	1.89	0.54
1:AN:530:GLU:O	1:AN:534:GLN:HG2	2.08	0.54
3:CP:248:ASP:O	3:CP:252:ARG:HG2	2.08	0.54
4:FP:64:LEU:HA	4:FP:101:ILE:HA	1.90	0.54
2:BQ:251:LEU:HD21	2:BQ:274:PHE:HE1	1.73	0.54
1:AR:549:LEU:HD11	2:BS:46:GLN:H	1.72	0.54
3:CR:86:ILE:HG22	3:CR:198:ILE:HD11	1.90	0.54
4:DT:66:VAL:HG12	4:DT:99:ILE:HD13	1.90	0.54
3:CU:52:GLN:HE21	3:CU:234:PRO:HD3	1.72	0.54
1:AX:530:GLU:O	1:AX:534:GLN:HG2	2.08	0.54
3:CX:255:GLN:OE1	3:CX:256:HIS:ND1	2.39	0.54
2:BY:251:LEU:HD21	2:BY:274:PHE:CE1	2.42	0.54
3:CY:86:ILE:HG22	3:CY:198:ILE:HD11	1.90	0.54
2:B2:263:LEU:HD22	2:B2:271:ARG:HG2	1.91	0.53
2:B3:251:LEU:HD21	2:B3:274:PHE:HE1	1.73	0.53
3:C3:86:ILE:HG22	3:C3:198:ILE:HD11	1.90	0.53
2:B6:263:LEU:HD22	2:B6:271:ARG:HG2	1.91	0.53
2:B7:263:LEU:HD22	2:B7:271:ARG:HG2	1.90	0.53
2:B8:218:VAL:HG13	2:B8:226:ALA:HB2	1.90	0.53
3:C9:115:LEU:HB3	3:C9:218:CYS:HB3	1.90	0.53
4:EA:128:PRO:HA	4:EA:131:ARG:HG3	1.90	0.53
4:FA:96:PRO:HB2	4:FA:108:GLN:HB3	1.90	0.53
4:DB:79:LEU:HG	4:FC:53:ASP:OD1	2.08	0.53
2:BF:261:ILE:HG23	2:BF:296:VAL:HG11	1.89	0.53
4:DF:135:LEU:HD22	4:EG:132:MET:HB3	1.89	0.53
3:CG:253:GLN:NE2	4:FH:106:ILE:HA	2.23	0.53
3:CI:248:ASP:O	3:CI:252:ARG:HG2	2.07	0.53
4:DK:132:MET:HA	4:DK:135:LEU:HG	1.91	0.53
3:CM:86:ILE:HG22	3:CM:198:ILE:HD11	1.90	0.53
4:EO:74:THR:HA	4:FO:61:PRO:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:530:GLU:O	1:AR:534:GLN:HG2	2.08	0.53
2:BV:251:LEU:HD21	2:BV:274:PHE:HE1	1.73	0.53
4:EV:128:PRO:HA	4:EV:131:ARG:HG3	1.90	0.53
2:BX:134:LEU:HD21	2:BX:146:LEU:HD12	1.90	0.53
1:A1:549:LEU:HD11	2:B2:46:GLN:H	1.73	0.53
2:B1:218:VAL:HG13	2:B1:226:ALA:HB2	1.89	0.53
4:D2:102:ASN:ND2	4:E2:61:PRO:O	2.41	0.53
1:A3:532:MET:HA	1:A3:535:ARG:HG3	1.90	0.53
2:B3:251:LEU:HD21	2:B3:274:PHE:CE1	2.42	0.53
4:E4:128:PRO:HA	4:E4:131:ARG:HG3	1.90	0.53
2:B5:4:LEU:HD11	2:B5:51:GLN:HB3	1.90	0.53
2:B5:134:LEU:HD21	2:B5:146:LEU:HD12	1.91	0.53
2:B6:91:SER:O	2:B6:95:GLU:HG2	2.08	0.53
2:B6:101:ARG:HH12	2:B7:42:ALA:HB3	1.73	0.53
2:B7:251:LEU:HD21	2:B7:274:PHE:HE1	1.73	0.53
2:B9:78:ARG:NH1	2:B9:87:GLU:OE2	2.41	0.53
2:B9:263:LEU:HD22	2:B9:271:ARG:HG2	1.91	0.53
4:F9:101:ILE:HG12	4:F9:106:ILE:HD11	1.90	0.53
3:CA:86:ILE:HG22	3:CA:198:ILE:HD11	1.90	0.53
3:CA:248:ASP:O	3:CA:252:ARG:HG2	2.08	0.53
2:BB:251:LEU:HD21	2:BB:274:PHE:HE1	1.73	0.53
2:BD:91:SER:O	2:BD:95:GLU:HG2	2.08	0.53
2:BF:251:LEU:HD21	2:BF:274:PHE:CE1	2.42	0.53
3:CG:299:VAL:HG23	4:FG:132:MET:HG2	1.89	0.53
2:BH:93:LEU:HD12	2:BI:35:GLN:OE1	2.09	0.53
3:CI:52:GLN:HE21	3:CI:234:PRO:HD3	1.73	0.53
3:CI:86:ILE:HG22	3:CI:198:ILE:HD11	1.90	0.53
2:BK:73:ALA:HB1	2:BL:42:ALA:HA	1.88	0.53
2:BK:91:SER:O	2:BK:95:GLU:HG2	2.09	0.53
2:BK:127:PRO:HB2	2:BK:160:ARG:NE	2.23	0.53
4:EK:77:GLU:O	4:EK:81:LEU:HG	2.08	0.53
2:BL:218:VAL:HG13	2:BL:226:ALA:HB2	1.90	0.53
4:FL:108:GLN:HG3	4:FL:126:ILE:HD11	1.90	0.53
2:BM:91:SER:O	2:BM:95:GLU:HG2	2.08	0.53
3:CM:115:LEU:HB3	3:CM:218:CYS:HB3	1.89	0.53
1:AN:532:MET:HA	1:AN:535:ARG:HG3	1.90	0.53
3:CP:115:LEU:HB3	3:CP:218:CYS:HB3	1.89	0.53
2:BQ:263:LEU:HD22	2:BQ:271:ARG:HG2	1.90	0.53
3:CQ:86:ILE:HG22	3:CQ:198:ILE:HD11	1.90	0.53
2:BR:310:LEU:O	2:BR:314:ARG:HG2	2.07	0.53
4:ET:72:ARG:NH2	4:ET:73:MET:O	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ET:101:ILE:HG22	4:ET:102:ASN:OD1	2.08	0.53
4:DU:66:VAL:HG12	4:DU:99:ILE:HD13	1.89	0.53
2:BV:4:LEU:HD11	2:BV:51:GLN:HB3	1.89	0.53
2:BW:199:ALA:O	2:BW:203:ILE:HG12	2.07	0.53
4:FW:71:THR:HG22	4:FW:89:LEU:HA	1.89	0.53
1:AX:532:MET:HA	1:AX:535:ARG:HG3	1.90	0.53
2:BX:101:ARG:HH12	2:BY:42:ALA:HB3	1.73	0.53
4:DX:66:VAL:HG12	4:DX:99:ILE:HD13	1.89	0.53
1:AY:535:ARG:HH22	2:BY:60:GLU:HB2	1.72	0.53
4:D1:66:VAL:HG12	4:D1:99:ILE:HD13	1.89	0.53
3:C2:87:GLN:HE21	3:C2:199:VAL:HG23	1.72	0.53
1:A4:530:GLU:O	1:A4:534:GLN:HG2	2.08	0.53
2:B4:12:ILE:HG12	2:B4:47:ILE:HG12	1.91	0.53
2:B4:78:ARG:NH1	2:B4:87:GLU:OE2	2.40	0.53
3:C7:115:LEU:HB3	3:C7:218:CYS:HB3	1.89	0.53
3:C7:258:GLU:HA	4:D7:74:THR:HG22	1.90	0.53
2:B8:139:ARG:NH1	2:B9:201:GLU:OE1	2.38	0.53
2:B9:327:GLU:OE1	2:B9:330:TYR:OH	2.25	0.53
3:C9:253:GLN:NE2	4:FA:106:ILE:HD13	2.24	0.53
3:CB:52:GLN:HE21	3:CB:234:PRO:HD3	1.72	0.53
4:ED:111:VAL:HG21	4:FD:68:LEU:HD11	1.91	0.53
3:CE:86:ILE:HG22	3:CE:198:ILE:HD11	1.90	0.53
2:BG:251:LEU:HD21	2:BG:274:PHE:HE1	1.74	0.53
3:CG:115:LEU:HB3	3:CG:218:CYS:HB3	1.89	0.53
3:CH:248:ASP:O	3:CH:252:ARG:HG2	2.09	0.53
4:FH:54:ILE:HG13	4:FH:55:ASP:N	2.23	0.53
4:EI:128:PRO:HA	4:EI:131:ARG:HG3	1.90	0.53
1:AJ:530:GLU:O	1:AJ:534:GLN:HG2	2.08	0.53
2:BJ:132:THR:HA	2:BK:193:MET:HE1	1.90	0.53
4:EJ:73:MET:HE1	4:EJ:78:LEU:HD21	1.89	0.53
2:BK:263:LEU:HD22	2:BK:271:ARG:HG2	1.90	0.53
3:CL:250:LEU:HD21	4:EM:79:LEU:HD13	1.91	0.53
3:CM:291:ARG:NH1	3:CM:318:GLU:OE1	2.39	0.53
3:CO:52:GLN:HE21	3:CO:234:PRO:HD3	1.73	0.53
4:EP:128:PRO:HA	4:EP:131:ARG:HG3	1.90	0.53
4:FP:108:GLN:HG3	4:FP:126:ILE:HD11	1.89	0.53
1:AQ:530:GLU:O	1:AQ:534:GLN:HG2	2.08	0.53
3:CR:253:GLN:NE2	4:FS:125:ILE:HB	2.23	0.53
2:BS:218:VAL:HG13	2:BS:226:ALA:HB2	1.90	0.53
2:BS:251:LEU:HD21	2:BS:274:PHE:HE1	1.73	0.53
2:BS:327:GLU:OE1	2:BS:330:TYR:OH	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BU:251:LEU:HD21	2:BU:274:PHE:HE1	1.73	0.53
4:FU:64:LEU:HA	4:FU:101:ILE:HA	1.91	0.53
2:BX:218:VAL:HG13	2:BX:226:ALA:HB2	1.89	0.53
2:BX:263:LEU:HD22	2:BX:271:ARG:HG2	1.91	0.53
2:B2:218:VAL:HG13	2:B2:226:ALA:HB2	1.89	0.53
2:B3:127:PRO:HB2	2:B3:160:ARG:NE	2.23	0.53
2:B3:218:VAL:HG13	2:B3:226:ALA:HB2	1.89	0.53
2:B4:263:LEU:HD22	2:B4:271:ARG:HG2	1.91	0.53
2:B4:310:LEU:O	2:B4:314:ARG:HG2	2.07	0.53
4:E5:60:ILE:O	4:F5:74:THR:HA	2.08	0.53
4:D6:66:VAL:HG12	4:D6:99:ILE:HD13	1.89	0.53
2:B7:127:PRO:HB2	2:B7:160:ARG:NE	2.23	0.53
2:B8:263:LEU:HD22	2:B8:271:ARG:HG2	1.91	0.53
3:C8:64:GLN:NE2	3:C8:67:MET:SD	2.81	0.53
3:C8:256:HIS:HE1	4:F9:104:TYR:CZ	2.27	0.53
4:D9:73:MET:HG2	4:D9:77:GLU:OE1	2.08	0.53
2:BC:263:LEU:HD22	2:BC:271:ARG:HG2	1.91	0.53
2:BD:263:LEU:HD22	2:BD:271:ARG:HG2	1.91	0.53
3:CD:86:ILE:HG22	3:CD:198:ILE:HD11	1.90	0.53
2:BE:4:LEU:HD11	2:BE:51:GLN:HB3	1.90	0.53
2:BE:251:LEU:HD21	2:BE:274:PHE:HE1	1.73	0.53
3:CE:261:LEU:HD13	4:DE:73:MET:HE2	1.91	0.53
3:CF:115:LEU:HB3	3:CF:218:CYS:HB3	1.89	0.53
4:FF:101:ILE:HG12	4:FF:106:ILE:HD11	1.91	0.53
2:BG:263:LEU:HD22	2:BG:271:ARG:HG2	1.91	0.53
2:BG:310:LEU:O	2:BG:314:ARG:HG2	2.07	0.53
4:EG:128:PRO:HA	4:EG:131:ARG:HG3	1.90	0.53
2:BI:91:SER:O	2:BI:95:GLU:HG2	2.09	0.53
2:BJ:91:SER:O	2:BJ:95:GLU:HG2	2.09	0.53
2:BJ:263:LEU:HD22	2:BJ:271:ARG:HG2	1.91	0.53
3:CJ:64:GLN:NE2	3:CJ:67:MET:SD	2.82	0.53
4:EL:128:PRO:HA	4:EL:131:ARG:HG3	1.90	0.53
2:BN:91:SER:O	2:BN:95:GLU:HG2	2.09	0.53
3:CQ:288:LYS:HZ3	4:DQ:118:TYR:H	1.56	0.53
4:FQ:71:THR:HG22	4:FQ:89:LEU:HA	1.89	0.53
2:BR:218:VAL:HG13	2:BR:226:ALA:HB2	1.90	0.53
2:BR:327:GLU:OE1	2:BR:330:TYR:OH	2.25	0.53
3:CU:86:ILE:HG22	3:CU:198:ILE:HD11	1.90	0.53
4:DW:66:VAL:HG12	4:DW:99:ILE:HD13	1.89	0.53
2:BY:12:ILE:HG12	2:BY:47:ILE:CD1	2.38	0.53
2:BY:263:LEU:HD22	2:BY:271:ARG:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DY:66:VAL:HG12	4:DY:99:ILE:HD13	1.89	0.53
4:DY:132:MET:HA	4:DY:135:LEU:HG	1.91	0.53
2:B1:263:LEU:HD22	2:B1:271:ARG:HG2	1.91	0.53
3:C1:52:GLN:HE21	3:C1:234:PRO:HD3	1.72	0.53
3:C1:318:GLU:O	4:D1:83:GLN:NE2	2.42	0.53
3:C3:318:GLU:O	4:D3:83:GLN:NE2	2.42	0.53
4:D3:66:VAL:HG12	4:D3:99:ILE:HD13	1.90	0.53
2:B6:4:LEU:HD11	2:B6:51:GLN:HB3	1.90	0.53
3:C7:77:PRO:HB3	3:C7:208:ILE:HG12	1.91	0.53
4:E7:101:ILE:HG22	4:E7:102:ASN:OD1	2.09	0.53
2:B8:310:LEU:O	2:B8:314:ARG:HG2	2.07	0.53
4:E8:111:VAL:HG21	4:F8:68:LEU:HD11	1.91	0.53
3:C9:318:GLU:O	4:D9:83:GLN:NE2	2.42	0.53
3:CA:318:GLU:O	4:DA:83:GLN:NE2	2.42	0.53
2:BB:91:SER:O	2:BB:95:GLU:HG2	2.09	0.53
2:BB:218:VAL:HG13	2:BB:226:ALA:HB2	1.90	0.53
2:BB:263:LEU:HD22	2:BB:271:ARG:HG2	1.90	0.53
3:CB:318:GLU:O	4:DB:83:GLN:NE2	2.42	0.53
2:BH:91:SER:O	2:BH:95:GLU:HG2	2.09	0.53
3:CH:318:GLU:O	4:DH:83:GLN:NE2	2.41	0.53
2:BI:134:LEU:HD21	2:BI:146:LEU:HD12	1.89	0.53
4:EI:77:GLU:O	4:EI:81:LEU:HG	2.08	0.53
2:BJ:158:MET:HE1	2:BK:214:VAL:O	2.09	0.53
3:CK:242:GLU:HB2	4:EL:83:GLN:OE1	2.09	0.53
4:EK:98:ASP:HB2	4:EK:105:LEU:HD11	1.91	0.53
2:BL:251:LEU:HD21	2:BL:274:PHE:HE1	1.74	0.53
1:AM:530:GLU:O	1:AM:534:GLN:HG2	2.08	0.53
2:BM:251:LEU:HD21	2:BM:274:PHE:HE1	1.73	0.53
4:DM:101:ILE:HD11	4:EM:60:ILE:HG12	1.91	0.53
4:EO:98:ASP:HB2	4:EO:105:LEU:HD11	1.90	0.53
2:BS:131:ALA:HB1	2:BS:161:ILE:HD11	1.91	0.53
4:DS:134:ARG:O	4:DS:137:ARG:HG3	2.08	0.53
3:CT:299:VAL:HG23	4:FT:132:MET:HG2	1.89	0.53
3:CU:270:LEU:HB2	4:DU:64:LEU:HD23	1.90	0.53
4:EU:128:PRO:HA	4:EU:131:ARG:HG3	1.90	0.53
4:FV:105:LEU:HD21	4:FV:126:ILE:HG21	1.91	0.53
3:CW:219:LEU:HD12	3:CW:223:MET:HG3	1.90	0.53
4:EW:128:PRO:HA	4:EW:131:ARG:HG3	1.90	0.53
1:AX:549:LEU:HD11	2:BY:46:GLN:H	1.74	0.53
3:CY:318:GLU:O	4:DY:83:GLN:NE2	2.42	0.53
2:B1:93:LEU:HD12	2:B2:35:GLN:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:258:GLU:HA	4:D2:74:THR:HG22	1.90	0.53
2:B5:263:LEU:HD22	2:B5:271:ARG:HG2	1.91	0.53
3:C6:318:GLU:O	4:D6:83:GLN:NE2	2.42	0.53
2:B7:91:SER:O	2:B7:95:GLU:HG2	2.09	0.53
4:F7:62:VAL:HG11	4:F7:101:ILE:HD12	1.91	0.53
1:AC:532:MET:HA	1:AC:535:ARG:HG3	1.91	0.53
2:BC:218:VAL:HG13	2:BC:226:ALA:HB2	1.90	0.53
3:CC:240:ARG:NH2	3:CC:243:ASP:OD2	2.41	0.53
4:DC:66:VAL:HG12	4:DC:99:ILE:HD13	1.90	0.53
4:FC:71:THR:HG22	4:FC:89:LEU:HA	1.89	0.53
4:DE:79:LEU:HG	4:FF:53:ASP:OD1	2.09	0.53
3:CG:270:LEU:HB2	4:DG:64:LEU:HD23	1.91	0.53
2:BK:172:LEU:O	2:BK:176:THR:HG23	2.08	0.53
3:CK:64:GLN:NE2	3:CK:67:MET:SD	2.82	0.53
2:BL:91:SER:O	2:BL:95:GLU:HG2	2.09	0.53
4:EL:83:GLN:OE1	4:EL:83:GLN:N	2.41	0.53
1:AM:532:MET:HA	1:AM:535:ARG:HG3	1.91	0.53
2:BO:91:SER:O	2:BO:95:GLU:HG2	2.09	0.53
3:CO:115:LEU:HB3	3:CO:218:CYS:HB3	1.90	0.53
2:BP:91:SER:O	2:BP:95:GLU:HG2	2.08	0.53
2:BV:263:LEU:HD22	2:BV:271:ARG:HG2	1.90	0.53
2:BW:101:ARG:HH12	2:BX:42:ALA:HB3	1.73	0.53
2:B2:127:PRO:HB2	2:B2:160:ARG:NE	2.22	0.53
4:E4:74:THR:HA	4:F4:61:PRO:HA	1.91	0.53
2:B6:134:LEU:HD21	2:B6:146:LEU:HD12	1.91	0.53
4:F6:54:ILE:HG13	4:F6:55:ASP:H	1.73	0.53
1:A7:549:LEU:HD11	2:B8:46:GLN:H	1.74	0.53
4:E7:68:LEU:HG	4:F7:66:VAL:HG23	1.91	0.53
3:C8:318:GLU:O	4:D8:83:GLN:NE2	2.42	0.53
4:DA:76:LYS:HD3	4:DA:79:LEU:HD13	1.90	0.53
3:CB:64:GLN:NE2	3:CB:67:MET:SD	2.82	0.53
2:BC:203:ILE:HA	2:BC:206:MET:HG2	1.91	0.53
2:BC:310:LEU:O	2:BC:314:ARG:HG2	2.07	0.53
3:CC:64:GLN:NE2	3:CC:67:MET:SD	2.82	0.53
3:CC:77:PRO:HB3	3:CC:208:ILE:HG12	1.91	0.53
3:CC:255:GLN:OE1	3:CC:256:HIS:ND1	2.41	0.53
3:CE:318:GLU:O	4:DE:83:GLN:NE2	2.42	0.53
1:AF:532:MET:HA	1:AF:535:ARG:HG3	1.90	0.53
3:CF:77:PRO:HB3	3:CF:208:ILE:HG12	1.91	0.53
4:EG:111:VAL:HG21	4:FG:68:LEU:HD11	1.91	0.53
4:EG:117:LYS:HZ3	4:FG:91:GLY:C	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:78:ARG:NH1	2:BI:87:GLU:OE2	2.42	0.53
4:FJ:71:THR:HG22	4:FJ:89:LEU:HA	1.89	0.53
1:AK:532:MET:HA	1:AK:535:ARG:HG3	1.91	0.53
2:BK:251:LEU:HD21	2:BK:274:PHE:HE1	1.73	0.53
3:CK:115:LEU:HB3	3:CK:218:CYS:HB3	1.90	0.53
2:BN:263:LEU:HD22	2:BN:271:ARG:HG2	1.91	0.53
3:CN:115:LEU:HB3	3:CN:218:CYS:HB3	1.90	0.53
2:BO:263:LEU:HD22	2:BO:271:ARG:HG2	1.90	0.53
1:AP:530:GLU:O	1:AP:534:GLN:HG2	2.09	0.53
3:CQ:115:LEU:HB3	3:CQ:218:CYS:HB3	1.89	0.53
4:DQ:73:MET:HG2	4:DQ:77:GLU:OE1	2.09	0.53
1:A1:532:MET:HA	1:A1:535:ARG:HG3	1.91	0.53
2:B3:107:ILE:HD11	2:B3:136:HIS:NE2	2.23	0.53
2:B3:327:GLU:OE1	2:B3:330:TYR:OH	2.25	0.53
2:B4:194:GLY:O	2:B4:198:THR:OG1	2.21	0.53
2:B4:327:GLU:OE1	2:B4:330:TYR:OH	2.25	0.53
3:C4:258:GLU:HA	4:D4:74:THR:HG22	1.91	0.53
1:A6:549:LEU:HD11	2:B7:46:GLN:H	1.73	0.53
4:EA:111:VAL:HG21	4:FA:68:LEU:HD11	1.91	0.53
4:EC:101:ILE:HG22	4:EC:102:ASN:OD1	2.08	0.53
4:FD:108:GLN:HG3	4:FD:126:ILE:HD11	1.90	0.53
2:BE:91:SER:O	2:BE:95:GLU:HG2	2.09	0.53
2:BF:91:SER:O	2:BF:95:GLU:HG2	2.09	0.53
3:CF:318:GLU:O	4:DF:83:GLN:NE2	2.42	0.53
4:DF:132:MET:HA	4:DF:135:LEU:HG	1.91	0.53
3:CG:52:GLN:HE21	3:CG:234:PRO:HD3	1.73	0.53
2:BJ:251:LEU:HD21	2:BJ:274:PHE:HE1	1.74	0.53
2:BS:263:LEU:HD22	2:BS:271:ARG:HG2	1.90	0.53
1:AT:532:MET:HA	1:AT:535:ARG:HG3	1.91	0.53
4:EU:73:MET:CE	4:EU:78:LEU:HG	2.35	0.53
1:AV:549:LEU:HD11	2:BW:46:GLN:H	1.73	0.53
3:CY:240:ARG:NH2	3:CY:243:ASP:OD2	2.41	0.53
2:B2:251:LEU:HD21	2:B2:274:PHE:HE1	1.74	0.53
2:B3:101:ARG:HH12	2:B4:42:ALA:HB3	1.73	0.53
2:B5:218:VAL:HG13	2:B5:226:ALA:HB2	1.90	0.53
4:D5:135:LEU:HD22	4:E6:132:MET:HG3	1.91	0.53
1:AA:552:ARG:HD2	2:BB:45:ARG:HH12	1.74	0.53
2:BA:91:SER:O	2:BA:95:GLU:HG2	2.09	0.53
2:BA:327:GLU:OE1	2:BA:330:TYR:OH	2.25	0.53
4:EC:111:VAL:HG21	4:FC:68:LEU:HD11	1.91	0.53
4:FD:54:ILE:HG13	4:FD:55:ASP:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:111:VAL:HG21	4:FE:68:LEU:HD11	1.91	0.53
3:CG:48:ARG:HH22	4:FG:92:LEU:HD21	1.74	0.53
2:BH:251:LEU:HD21	2:BH:274:PHE:HE1	1.73	0.53
4:EH:111:VAL:HG21	4:FH:68:LEU:HD11	1.91	0.53
1:AI:530:GLU:O	1:AI:534:GLN:HG2	2.08	0.53
2:BI:101:ARG:HH12	2:BJ:42:ALA:HB3	1.73	0.53
2:BJ:203:ILE:HA	2:BJ:206:MET:HG2	1.91	0.53
1:AK:549:LEU:HD11	2:BL:46:GLN:H	1.73	0.53
3:CK:291:ARG:NH1	3:CK:318:GLU:OE1	2.40	0.53
3:CO:246:TRP:HA	3:CO:249:ASN:OD1	2.09	0.53
4:FO:64:LEU:HA	4:FO:101:ILE:HA	1.90	0.53
2:BR:263:LEU:HD22	2:BR:271:ARG:HG2	1.91	0.53
3:CS:258:GLU:OE1	4:DS:73:MET:N	2.42	0.53
4:DS:79:LEU:HG	4:FT:53:ASP:OD1	2.09	0.53
2:BT:251:LEU:HD21	2:BT:274:PHE:HE1	1.74	0.53
3:CT:115:LEU:HB3	3:CT:218:CYS:HB3	1.89	0.53
3:CT:291:ARG:NH1	3:CT:318:GLU:OE1	2.37	0.53
2:BV:218:VAL:HG13	2:BV:226:ALA:HB2	1.90	0.53
4:EV:117:LYS:HZ2	4:FV:92:LEU:HA	1.74	0.53
4:DW:134:ARG:O	4:DW:137:ARG:HG3	2.08	0.53
1:AY:530:GLU:O	1:AY:534:GLN:HG2	2.08	0.53
4:EY:128:PRO:HA	4:EY:131:ARG:HG3	1.90	0.53
3:C1:272:LEU:HD23	4:D1:60:ILE:HB	1.91	0.53
4:D1:132:MET:HA	4:D1:135:LEU:HG	1.91	0.53
4:F1:53:ASP:OD1	4:DY:79:LEU:HG	2.09	0.53
2:B2:327:GLU:OE1	2:B2:330:TYR:OH	2.25	0.53
4:E2:61:PRO:HB2	4:F2:72:ARG:NH2	2.24	0.53
4:D3:132:MET:HA	4:D3:135:LEU:HG	1.91	0.53
3:C4:77:PRO:HB3	3:C4:208:ILE:HG12	1.91	0.53
2:B5:12:ILE:HG12	2:B5:47:ILE:HG12	1.91	0.53
1:A6:552:ARG:HD2	2:B7:45:ARG:HH12	1.74	0.53
2:B9:91:SER:O	2:B9:95:GLU:HG2	2.09	0.53
2:BA:134:LEU:HD21	2:BA:146:LEU:HD12	1.90	0.53
3:CA:77:PRO:HB3	3:CA:208:ILE:HG12	1.91	0.53
3:CB:115:LEU:HB3	3:CB:218:CYS:HB3	1.90	0.53
4:EB:128:PRO:HA	4:EB:131:ARG:HG3	1.90	0.53
3:CD:318:GLU:O	4:DD:83:GLN:NE2	2.42	0.53
4:FF:96:PRO:HB2	4:FF:108:GLN:HB3	1.91	0.53
3:CG:64:GLN:NE2	3:CG:67:MET:SD	2.82	0.53
2:BH:263:LEU:HD22	2:BH:271:ARG:HG2	1.91	0.53
4:FI:54:ILE:HG13	4:FI:55:ASP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:532:MET:HA	1:AJ:535:ARG:HG3	1.91	0.53
4:EN:98:ASP:HB2	4:EN:105:LEU:HD11	1.91	0.53
4:FN:54:ILE:HG13	4:FN:55:ASP:H	1.74	0.53
3:CO:299:VAL:HG23	4:FO:132:MET:HG2	1.89	0.53
4:EO:68:LEU:HG	4:FO:66:VAL:HG23	1.91	0.53
1:AS:549:LEU:HD11	2:BT:46:GLN:H	1.73	0.53
2:BS:91:SER:O	2:BS:95:GLU:HG2	2.08	0.53
2:BS:101:ARG:HH12	2:BT:42:ALA:HB3	1.74	0.53
4:EU:98:ASP:HB2	4:EU:105:LEU:HD11	1.90	0.53
4:DV:132:MET:HA	4:DV:135:LEU:HG	1.91	0.53
2:BW:77:LEU:HD21	2:BX:38:SER:HB3	1.90	0.53
2:BW:263:LEU:HD22	2:BW:271:ARG:HG2	1.91	0.53
1:AY:532:MET:HA	1:AY:535:ARG:HG3	1.91	0.53
2:BY:91:SER:O	2:BY:95:GLU:HG2	2.08	0.53
4:EY:73:MET:HG2	4:EY:77:GLU:OE2	2.09	0.53
4:D2:134:ARG:HA	4:D2:137:ARG:HE	1.72	0.52
2:B4:218:VAL:HG13	2:B4:226:ALA:HB2	1.90	0.52
4:D4:74:THR:N	4:D4:77:GLU:OE2	2.42	0.52
4:D4:79:LEU:HG	4:F5:53:ASP:OD1	2.09	0.52
4:E5:111:VAL:HG21	4:F5:68:LEU:HD11	1.91	0.52
2:B6:127:PRO:HB2	2:B6:160:ARG:NE	2.23	0.52
2:B6:218:VAL:HG13	2:B6:226:ALA:HB2	1.90	0.52
4:F8:54:ILE:HG13	4:F8:55:ASP:N	2.24	0.52
4:F8:64:LEU:HA	4:F8:101:ILE:HA	1.91	0.52
2:B9:93:LEU:HD12	2:BA:35:GLN:OE1	2.10	0.52
3:C9:270:LEU:HB2	4:D9:64:LEU:HD23	1.91	0.52
4:E9:68:LEU:HG	4:F9:66:VAL:HG23	1.92	0.52
3:CE:270:LEU:HB2	4:DE:64:LEU:HD23	1.91	0.52
4:FE:54:ILE:HG13	4:FE:55:ASP:N	2.24	0.52
4:EF:73:MET:CE	4:EF:78:LEU:HG	2.37	0.52
2:BG:91:SER:O	2:BG:95:GLU:HG2	2.09	0.52
3:CI:272:LEU:HD23	4:DI:60:ILE:HB	1.91	0.52
4:FI:108:GLN:HG3	4:FI:126:ILE:HD11	1.91	0.52
3:CJ:149:THR:HG22	3:CJ:152:ARG:HH22	1.74	0.52
4:FJ:108:GLN:HG3	4:FJ:126:ILE:HD11	1.90	0.52
2:BK:218:VAL:HG13	2:BK:226:ALA:HB2	1.91	0.52
1:AL:518:LEU:O	1:AL:522:ARG:HG3	2.09	0.52
2:BL:203:ILE:HA	2:BL:206:MET:HG2	1.92	0.52
2:BL:263:LEU:HD22	2:BL:271:ARG:HG2	1.91	0.52
2:BM:52:LEU:HA	2:BM:55:VAL:HG22	1.91	0.52
4:EO:101:ILE:HG22	4:EO:102:ASN:OD1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:318:GLU:O	4:DP:83:GLN:NE2	2.42	0.52
2:BQ:210:GLN:O	2:BQ:214:VAL:HG23	2.09	0.52
2:BS:93:LEU:HD12	2:BT:35:GLN:OE1	2.09	0.52
1:AU:530:GLU:O	1:AU:534:GLN:HG2	2.08	0.52
2:BU:78:ARG:NH1	2:BU:87:GLU:OE2	2.42	0.52
3:CU:205:HIS:HE1	3:CU:212:THR:HB	1.75	0.52
4:FV:54:ILE:HG13	4:FV:55:ASP:N	2.24	0.52
3:CW:318:GLU:O	4:DW:83:GLN:NE2	2.42	0.52
2:B1:65:GLN:O	2:B2:48:SER:OG	2.24	0.52
2:B1:91:SER:O	2:B1:95:GLU:HG2	2.09	0.52
3:C3:248:ASP:O	3:C3:252:ARG:HG2	2.09	0.52
4:E3:98:ASP:HB2	4:E3:105:LEU:HD11	1.91	0.52
4:E5:98:ASP:HB2	4:E5:105:LEU:HD11	1.90	0.52
4:E5:128:PRO:HA	4:E5:131:ARG:HG3	1.90	0.52
3:C7:318:GLU:O	4:D7:83:GLN:NE2	2.42	0.52
3:CB:246:TRP:NE1	4:FC:125:ILE:HD11	2.23	0.52
3:CB:270:LEU:HB2	4:DB:64:LEU:HD23	1.91	0.52
4:EB:111:VAL:HG21	4:FB:68:LEU:HD11	1.92	0.52
4:DE:132:MET:HA	4:DE:135:LEU:HG	1.91	0.52
3:CF:144:ARG:NH1	3:CF:150:GLU:OE1	2.32	0.52
3:CG:318:GLU:O	4:DG:83:GLN:NE2	2.42	0.52
3:CH:77:PRO:HB3	3:CH:208:ILE:HG12	1.91	0.52
4:DH:132:MET:HA	4:DH:135:LEU:HG	1.92	0.52
4:EJ:73:MET:HE1	4:FJ:64:LEU:HD23	1.91	0.52
2:BL:4:LEU:HD11	2:BL:51:GLN:HB3	1.90	0.52
4:EL:111:VAL:HG21	4:FL:68:LEU:HD11	1.91	0.52
2:BM:12:ILE:HG12	2:BM:47:ILE:HG12	1.90	0.52
2:BM:101:ARG:HH12	2:BN:42:ALA:HB3	1.74	0.52
2:BN:203:ILE:HD12	2:BN:214:VAL:HG11	1.92	0.52
4:EN:111:VAL:HG21	4:FN:68:LEU:HD11	1.91	0.52
2:BP:263:LEU:HD22	2:BP:271:ARG:HG2	1.91	0.52
2:BQ:4:LEU:HD11	2:BQ:51:GLN:HB3	1.91	0.52
2:BR:91:SER:O	2:BR:95:GLU:HG2	2.09	0.52
2:BT:93:LEU:HD12	2:BU:35:GLN:OE1	2.09	0.52
4:DT:132:MET:HA	4:DT:135:LEU:HG	1.92	0.52
3:CV:64:GLN:NE2	3:CV:67:MET:SD	2.82	0.52
2:BW:131:ALA:HB1	2:BW:161:ILE:HD11	1.91	0.52
2:BW:251:LEU:HD21	2:BW:274:PHE:HE1	1.74	0.52
2:BX:203:ILE:HA	2:BX:206:MET:HG2	1.91	0.52
3:C2:248:ASP:O	3:C2:252:ARG:HG2	2.09	0.52
2:B5:91:SER:O	2:B5:95:GLU:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C5:77:PRO:HB3	3:C5:208:ILE:HG12	1.91	0.52
3:C6:77:PRO:HB3	3:C6:208:ILE:HG12	1.91	0.52
4:D6:134:ARG:HA	4:D6:137:ARG:HE	1.75	0.52
2:B8:91:SER:O	2:B8:95:GLU:HG2	2.09	0.52
4:E8:76:LYS:NZ	4:F8:58:MET:HB2	2.24	0.52
3:C9:77:PRO:HB3	3:C9:208:ILE:HG12	1.91	0.52
4:D9:132:MET:HA	4:D9:135:LEU:HG	1.92	0.52
3:CC:115:LEU:HB3	3:CC:218:CYS:HB3	1.89	0.52
4:ED:61:PRO:HB2	4:FD:72:ARG:HH22	1.74	0.52
4:EF:111:VAL:HG21	4:FF:68:LEU:HD11	1.91	0.52
4:DH:73:MET:HG2	4:DH:77:GLU:OE1	2.09	0.52
2:BN:4:LEU:HD11	2:BN:51:GLN:HB3	1.90	0.52
1:AO:518:LEU:O	1:AO:522:ARG:HG3	2.09	0.52
2:BO:203:ILE:HA	2:BO:206:MET:HG2	1.92	0.52
3:CO:64:GLN:NE2	3:CO:67:MET:SD	2.82	0.52
3:CO:248:ASP:O	3:CO:252:ARG:HG2	2.10	0.52
2:BP:93:LEU:HD12	2:BQ:35:GLN:OE1	2.09	0.52
2:BP:251:LEU:HD21	2:BP:274:PHE:HE1	1.73	0.52
2:BQ:91:SER:O	2:BQ:95:GLU:HG2	2.09	0.52
4:EQ:98:ASP:HB2	4:EQ:105:LEU:HD11	1.92	0.52
4:EW:68:LEU:HG	4:FW:66:VAL:HG23	1.92	0.52
2:BX:251:LEU:HD21	2:BX:274:PHE:CE1	2.45	0.52
3:CX:64:GLN:NE2	3:CX:67:MET:SD	2.82	0.52
2:B2:91:SER:O	2:B2:95:GLU:HG2	2.09	0.52
3:C2:77:PRO:HB3	3:C2:208:ILE:HG12	1.91	0.52
2:B5:127:PRO:HB2	2:B5:160:ARG:NE	2.24	0.52
2:B5:135:VAL:HG21	2:B6:193:MET:CE	2.37	0.52
4:F5:108:GLN:HG3	4:F5:126:ILE:HD11	1.90	0.52
4:E7:98:ASP:HB2	4:E7:105:LEU:HD11	1.90	0.52
4:D8:132:MET:HA	4:D8:135:LEU:HG	1.91	0.52
2:B9:155:HIS:O	2:B9:159:LEU:HG	2.09	0.52
4:FB:101:ILE:HG12	4:FB:106:ILE:HD11	1.90	0.52
1:AC:552:ARG:HD2	2:BD:45:ARG:HH12	1.75	0.52
4:FC:54:ILE:HG13	4:FC:55:ASP:N	2.24	0.52
2:BD:65:GLN:O	2:BE:48:SER:OG	2.24	0.52
3:CF:64:GLN:NE2	3:CF:67:MET:SD	2.82	0.52
2:BG:251:LEU:HD21	2:BG:274:PHE:CE1	2.45	0.52
4:DG:134:ARG:O	4:DG:137:ARG:HG3	2.08	0.52
4:EG:98:ASP:HB2	4:EG:105:LEU:HD11	1.91	0.52
2:BH:4:LEU:HD11	2:BH:51:GLN:HB3	1.89	0.52
3:CI:77:PRO:HB3	3:CI:208:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BJ:251:LEU:HD21	2:BJ:274:PHE:CE1	2.45	0.52
3:CJ:52:GLN:HE21	3:CJ:234:PRO:HD3	1.73	0.52
4:EK:68:LEU:HG	4:FK:66:VAL:HG23	1.92	0.52
2:BL:327:GLU:OE1	2:BL:330:TYR:OH	2.25	0.52
2:BO:4:LEU:HD11	2:BO:51:GLN:HB3	1.91	0.52
3:CP:205:HIS:HE1	3:CP:212:THR:HB	1.75	0.52
3:CQ:291:ARG:NH1	3:CQ:318:GLU:OE1	2.38	0.52
3:CS:115:LEU:HB3	3:CS:218:CYS:HB3	1.89	0.52
2:BT:78:ARG:NH1	2:BT:87:GLU:OE2	2.42	0.52
2:BT:91:SER:O	2:BT:95:GLU:HG2	2.09	0.52
2:BT:203:ILE:HD12	2:BT:214:VAL:HG11	1.91	0.52
4:DU:64:LEU:HA	4:DU:101:ILE:HG22	1.92	0.52
3:CV:249:ASN:ND2	4:FW:125:ILE:HD13	2.23	0.52
2:BW:155:HIS:O	2:BW:159:LEU:HG	2.09	0.52
2:BW:327:GLU:OE1	2:BW:330:TYR:OH	2.25	0.52
4:FW:64:LEU:HA	4:FW:101:ILE:HA	1.90	0.52
4:EX:101:ILE:HG22	4:EX:102:ASN:OD1	2.10	0.52
2:B1:251:LEU:HD21	2:B1:274:PHE:CE1	2.45	0.52
3:C1:77:PRO:HB3	3:C1:208:ILE:HG12	1.91	0.52
2:B2:251:LEU:HD21	2:B2:274:PHE:CE1	2.45	0.52
2:B4:77:LEU:HD21	2:B5:38:SER:HB3	1.90	0.52
2:B4:251:LEU:HD21	2:B4:274:PHE:CE1	2.45	0.52
4:E4:68:LEU:HG	4:F4:66:VAL:HG23	1.91	0.52
3:C5:219:LEU:HD12	3:C5:223:MET:HG2	1.92	0.52
4:E6:111:VAL:HG21	4:F6:68:LEU:HD11	1.92	0.52
4:EA:68:LEU:HG	4:FA:66:VAL:HG23	1.91	0.52
2:BD:203:ILE:HA	2:BD:206:MET:HG2	1.92	0.52
3:CD:77:PRO:HB3	3:CD:208:ILE:HG12	1.91	0.52
2:BF:93:LEU:HD12	2:BG:35:GLN:OE1	2.10	0.52
3:CG:144:ARG:NH1	3:CG:150:GLU:OE1	2.32	0.52
3:CG:205:HIS:HE1	3:CG:212:THR:HB	1.75	0.52
4:FG:108:GLN:HG3	4:FG:126:ILE:HD11	1.92	0.52
4:EH:98:ASP:HB2	4:EH:105:LEU:HD11	1.91	0.52
3:CJ:205:HIS:HE1	3:CJ:212:THR:HB	1.75	0.52
2:BK:203:ILE:HA	2:BK:206:MET:HG2	1.92	0.52
3:CK:77:PRO:HB3	3:CK:208:ILE:HG12	1.91	0.52
4:EK:126:ILE:HG13	4:EK:127:THR:H	1.74	0.52
4:EL:68:LEU:HG	4:FL:66:VAL:HG23	1.92	0.52
3:CM:205:HIS:HE1	3:CM:212:THR:HB	1.75	0.52
2:BO:77:LEU:HD21	2:BP:38:SER:HB3	1.92	0.52
2:BQ:78:ARG:NH1	2:BQ:87:GLU:OE2	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DQ:132:MET:HA	4:DQ:135:LEU:HG	1.91	0.52
4:FS:54:ILE:HG13	4:FS:55:ASP:N	2.24	0.52
2:BT:263:LEU:HD22	2:BT:271:ARG:HG2	1.91	0.52
4:ET:98:ASP:HB2	4:ET:105:LEU:HD11	1.91	0.52
2:BX:327:GLU:OE1	2:BX:330:TYR:OH	2.25	0.52
4:E1:68:LEU:HG	4:F1:66:VAL:HG23	1.92	0.52
4:E1:77:GLU:O	4:E1:81:LEU:HG	2.09	0.52
4:E1:82:THR:HB	3:CY:242:GLU:HG3	1.91	0.52
2:B3:101:ARG:HH22	2:B4:42:ALA:HB3	1.74	0.52
4:E3:68:LEU:HG	4:F3:66:VAL:HG23	1.92	0.52
3:C4:205:HIS:HE1	3:C4:212:THR:HB	1.75	0.52
3:C6:253:GLN:O	4:F7:104:TYR:OH	2.19	0.52
2:B7:93:LEU:HD12	2:B8:35:GLN:OE1	2.10	0.52
4:D7:64:LEU:HA	4:D7:101:ILE:HG22	1.91	0.52
3:CA:205:HIS:HE1	3:CA:212:THR:HB	1.75	0.52
1:AB:530:GLU:O	1:AB:534:GLN:HG2	2.09	0.52
2:BD:93:LEU:HD12	2:BE:35:GLN:OE1	2.09	0.52
3:CD:115:LEU:HB3	3:CD:218:CYS:HB3	1.90	0.52
3:CD:205:HIS:HE1	3:CD:212:THR:HB	1.75	0.52
4:ED:68:LEU:HG	4:FD:66:VAL:HG23	1.92	0.52
3:CE:77:PRO:HB3	3:CE:208:ILE:HG12	1.91	0.52
2:BF:78:ARG:NH1	2:BF:87:GLU:OE2	2.43	0.52
1:AH:522:ARG:HB2	1:AH:526:ARG:HH21	1.74	0.52
4:DI:64:LEU:HA	4:DI:101:ILE:HG22	1.92	0.52
2:BJ:78:ARG:NH1	2:BJ:87:GLU:OE2	2.43	0.52
2:BJ:101:ARG:HH22	2:BK:42:ALA:HB3	1.75	0.52
2:BK:78:ARG:NH1	2:BK:87:GLU:OE2	2.42	0.52
3:CK:318:GLU:O	4:DK:83:GLN:NE2	2.42	0.52
2:BN:251:LEU:HD21	2:BN:274:PHE:HE1	1.74	0.52
3:CN:318:GLU:O	4:DN:83:GLN:NE2	2.42	0.52
4:DN:64:LEU:HA	4:DN:101:ILE:HG22	1.92	0.52
2:BO:139:ARG:NH1	2:BP:201:GLU:OE1	2.36	0.52
2:BO:199:ALA:O	2:BO:203:ILE:HG12	2.09	0.52
2:BP:131:ALA:O	2:BP:135:VAL:HG22	2.09	0.52
2:BP:203:ILE:HA	2:BP:206:MET:HG2	1.92	0.52
4:FP:54:ILE:HG13	4:FP:55:ASP:N	2.24	0.52
1:AQ:552:ARG:HD2	2:BR:45:ARG:HH12	1.75	0.52
2:BQ:139:ARG:NH1	2:BR:201:GLU:OE1	2.36	0.52
4:ER:98:ASP:HB2	4:ER:105:LEU:HD11	1.91	0.52
4:ER:128:PRO:HA	4:ER:131:ARG:HG3	1.90	0.52
2:BV:327:GLU:OE1	2:BV:330:TYR:OH	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:102:LEU:HD22	3:CV:189:THR:HG21	1.91	0.52
2:BW:91:SER:O	2:BW:95:GLU:HG2	2.09	0.52
3:CW:240:ARG:NH2	3:CW:243:ASP:OD2	2.43	0.52
2:BX:251:LEU:HD21	2:BX:274:PHE:HE1	1.74	0.52
3:CX:77:PRO:HB3	3:CX:208:ILE:HG12	1.91	0.52
2:B1:327:GLU:OE1	2:B1:330:TYR:OH	2.25	0.52
3:C1:205:HIS:HE1	3:C1:212:THR:HB	1.75	0.52
4:E1:111:VAL:HG21	4:F1:68:LEU:HD11	1.91	0.52
3:C6:219:LEU:HD12	3:C6:223:MET:HG2	1.92	0.52
4:E7:111:VAL:HG21	4:F7:68:LEU:HD11	1.92	0.52
3:C8:77:PRO:HB3	3:C8:208:ILE:HG12	1.91	0.52
2:BA:131:ALA:HB1	2:BA:161:ILE:HD11	1.90	0.52
3:CB:144:ARG:NH1	3:CB:150:GLU:OE1	2.32	0.52
4:EC:68:LEU:HG	4:FC:66:VAL:HG23	1.92	0.52
4:EE:77:GLU:O	4:EE:81:LEU:HG	2.09	0.52
2:BF:101:ARG:HH12	2:BG:42:ALA:HB3	1.75	0.52
2:BF:203:ILE:HA	2:BF:206:MET:HG2	1.92	0.52
1:AH:521:ARG:HA	1:AH:524:ASN:HD21	1.74	0.52
3:CH:144:ARG:NH1	3:CH:150:GLU:OE1	2.32	0.52
3:CI:318:GLU:O	4:DI:83:GLN:NE2	2.42	0.52
4:DL:79:LEU:HG	4:FM:53:ASP:OD1	2.09	0.52
2:BM:139:ARG:NH1	2:BN:201:GLU:OE1	2.36	0.52
4:EM:98:ASP:HB2	4:EM:105:LEU:HD11	1.91	0.52
2:BO:78:ARG:NH1	2:BO:87:GLU:OE2	2.43	0.52
4:DO:64:LEU:HA	4:DO:101:ILE:HG22	1.92	0.52
2:BQ:327:GLU:OE1	2:BQ:330:TYR:OH	2.25	0.52
4:ER:77:GLU:O	4:ER:81:LEU:HG	2.09	0.52
4:ES:128:PRO:HA	4:ES:131:ARG:HG3	1.90	0.52
3:CV:258:GLU:OE1	4:DV:73:MET:N	2.43	0.52
2:BX:139:ARG:NH1	2:BY:201:GLU:OE1	2.39	0.52
2:BX:166:GLY:HA3	2:BY:190:ARG:HH12	1.74	0.52
4:D1:64:LEU:HA	4:D1:101:ILE:HG22	1.92	0.52
2:B4:251:LEU:HD21	2:B4:274:PHE:HE1	1.74	0.52
2:B5:203:ILE:HA	2:B5:206:MET:HG2	1.92	0.52
4:E5:68:LEU:HG	4:F5:66:VAL:HG23	1.92	0.52
2:B6:101:ARG:HH22	2:B7:42:ALA:HB3	1.75	0.52
2:B6:251:LEU:HD21	2:B6:274:PHE:HE1	1.74	0.52
3:C7:205:HIS:HE1	3:C7:212:THR:HB	1.75	0.52
4:F7:107:ALA:HB1	4:F7:124:ASP:O	2.10	0.52
3:C8:144:ARG:NH1	3:C8:150:GLU:OE1	2.32	0.52
2:BA:139:ARG:NH1	2:BB:201:GLU:OE1	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:141:GLN:O	2:BA:145:ILE:HG12	2.10	0.52
3:CA:52:GLN:HE21	3:CA:234:PRO:HD3	1.75	0.52
4:FA:54:ILE:HG13	4:FA:55:ASP:N	2.25	0.52
2:BB:78:ARG:NH1	2:BB:87:GLU:OE2	2.43	0.52
4:EG:68:LEU:HG	4:FG:66:VAL:HG23	1.92	0.52
2:BM:155:HIS:O	2:BM:159:LEU:HG	2.09	0.52
3:CN:77:PRO:HB3	3:CN:208:ILE:HG12	1.91	0.52
3:CS:205:HIS:HE1	3:CS:212:THR:HB	1.75	0.52
2:BT:133:ILE:HA	2:BT:136:HIS:NE2	2.25	0.52
4:FT:64:LEU:HA	4:FT:101:ILE:HA	1.92	0.52
4:EV:68:LEU:HG	4:FV:66:VAL:HG23	1.92	0.52
2:BW:251:LEU:HD21	2:BW:274:PHE:CE1	2.45	0.52
3:CW:205:HIS:HE1	3:CW:212:THR:HB	1.75	0.52
3:CW:249:ASN:HD22	4:FX:125:ILE:HD13	1.74	0.52
4:EW:98:ASP:HB2	4:EW:105:LEU:HD11	1.91	0.52
3:CX:205:HIS:HE1	3:CX:212:THR:HB	1.75	0.52
3:C2:291:ARG:NH1	3:C2:318:GLU:OE1	2.38	0.52
4:F2:96:PRO:HB2	4:F2:108:GLN:HB3	1.92	0.52
4:F4:54:ILE:HG13	4:F4:55:ASP:N	2.25	0.52
3:C5:205:HIS:HE1	3:C5:212:THR:HB	1.75	0.52
2:B6:251:LEU:HD21	2:B6:274:PHE:CE1	2.45	0.52
2:B7:203:ILE:HA	2:B7:206:MET:HG2	1.92	0.52
3:C7:64:GLN:NE2	3:C7:67:MET:SD	2.82	0.52
3:C8:270:LEU:HB2	4:D8:64:LEU:HD23	1.92	0.52
4:D8:102:ASN:ND2	4:E8:61:PRO:O	2.43	0.52
2:BA:78:ARG:NH1	2:BA:87:GLU:OE2	2.42	0.52
2:BB:12:ILE:HG12	2:BB:47:ILE:HG12	1.91	0.52
2:BF:251:LEU:HD21	2:BF:274:PHE:HE1	1.73	0.52
4:EJ:68:LEU:HG	4:FJ:66:VAL:HG23	1.92	0.52
3:CK:63:ARG:NH2	3:CL:188:PHE:HA	2.24	0.52
4:DK:64:LEU:HA	4:DK:101:ILE:HG22	1.92	0.52
4:DK:73:MET:SD	4:DK:78:LEU:HB3	2.50	0.52
4:FK:54:ILE:HG13	4:FK:55:ASP:N	2.25	0.52
3:CL:246:TRP:CH2	4:FM:122:ILE:HD12	2.45	0.52
3:CN:291:ARG:NH1	3:CN:318:GLU:OE1	2.40	0.52
4:FO:66:VAL:HG12	4:FO:99:ILE:HG13	1.92	0.52
3:CP:253:GLN:NE2	4:FQ:106:ILE:O	2.43	0.52
3:CQ:270:LEU:HB2	4:DQ:64:LEU:HD23	1.91	0.52
2:BR:203:ILE:HA	2:BR:206:MET:HG2	1.92	0.52
4:ER:101:ILE:HG22	4:ER:102:ASN:OD1	2.10	0.52
4:FR:54:ILE:HG13	4:FR:55:ASP:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ES:68:LEU:HG	4:FS:66:VAL:HG23	1.92	0.52
2:BT:158:MET:HG2	2:BU:214:VAL:HG13	1.92	0.52
2:BT:327:GLU:OE1	2:BT:330:TYR:OH	2.25	0.52
2:BU:91:SER:O	2:BU:95:GLU:HG2	2.09	0.52
3:CU:272:LEU:HD23	4:DU:60:ILE:HB	1.90	0.52
2:BV:91:SER:O	2:BV:95:GLU:HG2	2.09	0.52
4:EX:111:VAL:HG21	4:FX:68:LEU:HD11	1.91	0.52
4:EY:111:VAL:HG21	4:FY:68:LEU:HD11	1.91	0.52
2:B1:78:ARG:NH1	2:B1:87:GLU:OE2	2.43	0.52
2:B1:251:LEU:HD21	2:B1:274:PHE:HE1	1.74	0.52
3:C1:102:LEU:HD22	3:C1:189:THR:HG21	1.92	0.52
4:D2:135:LEU:HD22	4:E3:132:MET:HG3	1.91	0.52
4:E2:111:VAL:HG21	4:F2:68:LEU:HD11	1.92	0.52
4:F2:54:ILE:HG13	4:F2:55:ASP:N	2.25	0.52
4:F2:105:LEU:HD21	4:F2:126:ILE:HG21	1.92	0.52
2:B4:91:SER:O	2:B4:95:GLU:HG2	2.09	0.52
4:F5:54:ILE:HG13	4:F5:55:ASP:N	2.26	0.52
2:B6:78:ARG:NH1	2:B6:87:GLU:OE2	2.43	0.52
3:C6:105:ILE:HG12	3:C6:162:LEU:HD11	1.92	0.52
4:F7:96:PRO:HB2	4:F7:108:GLN:HB3	1.92	0.52
4:E8:126:ILE:HG13	4:E8:127:THR:H	1.74	0.52
2:B9:251:LEU:HD21	2:B9:274:PHE:CE1	2.45	0.52
2:B9:251:LEU:HD21	2:B9:274:PHE:HE1	1.74	0.52
2:BE:78:ARG:NH1	2:BE:87:GLU:OE2	2.43	0.52
2:BF:52:LEU:HA	2:BF:55:VAL:HG22	1.91	0.52
2:BG:203:ILE:HA	2:BG:206:MET:HG2	1.92	0.52
3:CG:77:PRO:HB3	3:CG:208:ILE:HG12	1.91	0.52
3:CG:249:ASN:CG	4:FH:125:ILE:HD13	2.31	0.52
4:EG:72:ARG:NH1	4:FG:61:PRO:HB2	2.12	0.52
2:BH:77:LEU:HD21	2:BI:38:SER:HB3	1.92	0.52
2:BK:52:LEU:HA	2:BK:55:VAL:HG22	1.91	0.52
3:CL:77:PRO:HB3	3:CL:208:ILE:HG12	1.91	0.52
4:FM:108:GLN:HG3	4:FM:126:ILE:HD11	1.92	0.52
3:CN:275:ILE:HD11	4:DN:64:LEU:HD21	1.91	0.52
3:CO:77:PRO:HB3	3:CO:208:ILE:HG12	1.91	0.52
3:CR:205:HIS:HE1	3:CR:212:THR:HB	1.75	0.52
2:BS:172:LEU:O	2:BS:176:THR:HG23	2.10	0.52
4:ES:98:ASP:HB2	4:ES:105:LEU:HD11	1.90	0.52
2:BT:251:LEU:HD21	2:BT:274:PHE:CE1	2.45	0.52
3:CU:318:GLU:O	4:DU:83:GLN:NE2	2.42	0.52
2:BV:101:ARG:HH22	2:BW:42:ALA:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FV:96:PRO:HB2	4:FV:108:GLN:HB3	1.92	0.52
3:CW:77:PRO:HB3	3:CW:208:ILE:HG12	1.91	0.52
4:DW:73:MET:HG2	4:DW:77:GLU:OE1	2.10	0.52
2:BX:127:PRO:HB2	2:BX:160:ARG:NE	2.24	0.52
2:BY:78:ARG:NH1	2:BY:87:GLU:OE2	2.43	0.52
2:B1:193:MET:SD	2:BY:136:HIS:NE2	2.83	0.51
3:C2:270:LEU:HB2	4:D2:64:LEU:HD23	1.91	0.51
4:D2:108:GLN:N	4:D2:124:ASP:OD1	2.37	0.51
2:B3:91:SER:O	2:B3:95:GLU:HG2	2.09	0.51
2:B3:139:ARG:NH1	2:B4:201:GLU:OE1	2.39	0.51
3:C4:102:LEU:HD22	3:C4:189:THR:HG21	1.92	0.51
1:A5:543:ASP:OD1	1:A5:545:ARG:NH1	2.43	0.51
2:BB:131:ALA:HB1	2:BB:161:ILE:HD11	1.91	0.51
4:EB:68:LEU:HG	4:FB:66:VAL:HG23	1.92	0.51
4:EB:83:GLN:NE2	4:FB:122:ILE:HG13	2.24	0.51
3:CE:288:LYS:HZ3	4:DE:118:TYR:H	1.58	0.51
1:AH:532:MET:HA	1:AH:535:ARG:HG3	1.91	0.51
3:CH:205:HIS:HE1	3:CH:212:THR:HB	1.75	0.51
2:BI:203:ILE:HA	2:BI:206:MET:HG2	1.93	0.51
4:EI:98:ASP:HB2	4:EI:105:LEU:HD11	1.92	0.51
3:CK:205:HIS:HE1	3:CK:212:THR:HB	1.75	0.51
4:EK:105:LEU:O	4:EK:131:ARG:NH2	2.35	0.51
3:CM:258:GLU:OE2	4:DM:72:ARG:NH1	2.43	0.51
2:BN:93:LEU:HD12	2:BO:35:GLN:OE1	2.10	0.51
2:BN:251:LEU:HD21	2:BN:274:PHE:CE1	2.45	0.51
3:CO:205:HIS:HE1	3:CO:212:THR:HB	1.75	0.51
2:BQ:131:ALA:O	2:BQ:135:VAL:HG22	2.10	0.51
2:BT:4:LEU:HD11	2:BT:51:GLN:HB3	1.90	0.51
2:BT:133:ILE:HA	2:BT:136:HIS:CD2	2.45	0.51
2:BV:127:PRO:HB2	2:BV:160:ARG:CZ	2.41	0.51
3:CV:63:ARG:NH2	3:CW:188:PHE:HA	2.25	0.51
2:BX:158:MET:HE3	2:BY:214:VAL:O	2.10	0.51
3:CX:270:LEU:HB2	4:DX:64:LEU:HD23	1.90	0.51
2:B1:194:GLY:O	2:B1:198:THR:OG1	2.24	0.51
3:C2:205:HIS:HE1	3:C2:212:THR:HB	1.75	0.51
1:A3:529:ALA:HA	1:A3:532:MET:HG2	1.92	0.51
3:C3:120:PRO:HA	3:C3:123:VAL:HG12	1.93	0.51
2:B6:73:ALA:HB1	2:B7:42:ALA:HA	1.92	0.51
3:C8:205:HIS:HE1	3:C8:212:THR:HB	1.75	0.51
3:C9:296:VAL:HG21	4:FA:60:ILE:HD12	1.92	0.51
3:CB:63:ARG:NH2	3:CC:188:PHE:HA	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:77:PRO:HB3	3:CB:208:ILE:HG12	1.91	0.51
4:FB:74:THR:OG1	4:FB:77:GLU:OE1	2.17	0.51
2:BC:131:ALA:HB1	2:BC:161:ILE:HD11	1.91	0.51
2:BC:141:GLN:O	2:BC:145:ILE:HG12	2.11	0.51
2:BE:139:ARG:NH1	2:BF:201:GLU:OE1	2.37	0.51
4:FF:64:LEU:HA	4:FF:101:ILE:HA	1.92	0.51
3:CI:258:GLU:HA	4:DI:74:THR:HG22	1.92	0.51
4:EJ:111:VAL:HG21	4:FJ:68:LEU:HD11	1.91	0.51
2:BK:93:LEU:HD12	2:BL:35:GLN:OE1	2.10	0.51
2:BK:131:ALA:HB1	2:BK:161:ILE:HD11	1.92	0.51
3:CK:120:PRO:HA	3:CK:123:VAL:HG12	1.92	0.51
2:BM:111:ASN:OD1	2:BM:137:LEU:HB3	2.10	0.51
4:EM:68:LEU:HG	4:FM:66:VAL:HG23	1.93	0.51
3:CO:291:ARG:NH1	3:CO:318:GLU:OE1	2.40	0.51
2:BQ:77:LEU:HD21	2:BR:38:SER:HB3	1.91	0.51
3:CR:258:GLU:OE2	4:DR:73:MET:N	2.43	0.51
2:BT:127:PRO:HB2	2:BT:160:ARG:NE	2.25	0.51
3:CT:270:LEU:HB2	4:DT:64:LEU:HD23	1.91	0.51
2:BU:127:PRO:HB2	2:BU:160:ARG:CZ	2.41	0.51
3:CU:248:ASP:O	3:CU:252:ARG:HG2	2.10	0.51
2:BV:155:HIS:O	2:BV:159:LEU:HG	2.10	0.51
2:BW:141:GLN:O	2:BW:145:ILE:HG12	2.11	0.51
2:BX:101:ARG:HH22	2:BY:42:ALA:HB3	1.75	0.51
4:DX:108:GLN:N	4:DX:124:ASP:OD1	2.37	0.51
2:BY:327:GLU:OE1	2:BY:330:TYR:OH	2.25	0.51
3:C3:270:LEU:HB2	4:D3:64:LEU:HD23	1.91	0.51
2:B4:203:ILE:HA	2:B4:206:MET:HG2	1.92	0.51
4:D4:72:ARG:NE	4:D4:72:ARG:HA	2.26	0.51
4:E4:111:VAL:HG21	4:F4:68:LEU:HD11	1.92	0.51
4:E6:68:LEU:HG	4:F6:66:VAL:HG23	1.92	0.51
3:C9:52:GLN:HE21	3:C9:234:PRO:HD3	1.75	0.51
3:C9:144:ARG:NH1	3:C9:150:GLU:OE1	2.33	0.51
4:D9:64:LEU:HA	4:D9:101:ILE:HG22	1.92	0.51
2:BA:199:ALA:O	2:BA:203:ILE:HG12	2.10	0.51
3:CA:72:LEU:O	3:CA:74:ARG:NH1	2.44	0.51
2:BB:101:ARG:HH22	2:BC:42:ALA:HB3	1.76	0.51
3:CD:72:LEU:O	3:CD:74:ARG:NH1	2.44	0.51
2:BE:49:ASN:O	2:BE:52:LEU:HG	2.11	0.51
4:EE:68:LEU:HG	4:FE:66:VAL:HG23	1.92	0.51
2:BG:52:LEU:HA	2:BG:55:VAL:HG22	1.93	0.51
2:BH:78:ARG:NH1	2:BH:87:GLU:OE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:111:VAL:HG21	4:FI:68:LEU:HD11	1.92	0.51
4:DJ:101:ILE:HD11	4:EJ:60:ILE:HG12	1.92	0.51
4:FJ:64:LEU:HA	4:FJ:101:ILE:HA	1.92	0.51
2:BK:49:ASN:O	2:BK:52:LEU:HG	2.11	0.51
2:BK:77:LEU:HD21	2:BL:38:SER:HB3	1.92	0.51
2:BL:251:LEU:HD21	2:BL:274:PHE:CE1	2.45	0.51
4:EM:128:PRO:HA	4:EM:131:ARG:HG3	1.90	0.51
2:BN:107:ILE:HD11	2:BN:136:HIS:NE2	2.25	0.51
3:CN:205:HIS:HE1	3:CN:212:THR:HB	1.75	0.51
3:CP:291:ARG:NH1	3:CP:318:GLU:OE1	2.39	0.51
2:BR:93:LEU:HD12	2:BS:35:GLN:OE1	2.09	0.51
3:CR:77:PRO:HB3	3:CR:208:ILE:HG12	1.91	0.51
3:CS:255:GLN:HB3	3:CS:256:HIS:HD1	1.75	0.51
2:BT:107:ILE:HG12	2:BT:136:HIS:HD1	1.74	0.51
4:FT:54:ILE:HG13	4:FT:55:ASP:N	2.24	0.51
3:CU:77:PRO:HB3	3:CU:208:ILE:HG12	1.91	0.51
2:BV:78:ARG:NH1	2:BV:87:GLU:OE2	2.43	0.51
2:BX:91:SER:O	2:BX:95:GLU:HG2	2.09	0.51
4:DX:64:LEU:HA	4:DX:101:ILE:HG22	1.92	0.51
2:B2:78:ARG:NH1	2:B2:87:GLU:OE2	2.42	0.51
3:C2:102:LEU:HD22	3:C2:189:THR:HG21	1.92	0.51
2:B3:141:GLN:O	2:B3:145:ILE:HG12	2.11	0.51
3:C3:77:PRO:HB3	3:C3:208:ILE:HG12	1.91	0.51
2:B4:155:HIS:O	2:B4:159:LEU:HG	2.10	0.51
3:C4:291:ARG:NH1	3:C4:318:GLU:OE1	2.39	0.51
3:C6:144:ARG:NH1	3:C6:150:GLU:OE1	2.32	0.51
2:B7:134:LEU:HD21	2:B7:146:LEU:HD12	1.93	0.51
2:B8:203:ILE:HA	2:B8:206:MET:HG2	1.93	0.51
3:C9:72:LEU:O	3:C9:74:ARG:NH1	2.44	0.51
3:C9:205:HIS:HE1	3:C9:212:THR:HB	1.75	0.51
2:BB:158:MET:CE	2:BC:218:VAL:HB	2.40	0.51
2:BB:327:GLU:OE1	2:BB:330:TYR:OH	2.25	0.51
4:FB:54:ILE:HG13	4:FB:55:ASP:N	2.25	0.51
3:CC:72:LEU:O	3:CC:74:ARG:NH1	2.44	0.51
3:CC:120:PRO:HA	3:CC:123:VAL:HG12	1.92	0.51
3:CE:205:HIS:HE1	3:CE:212:THR:HB	1.75	0.51
4:EE:98:ASP:HB2	4:EE:105:LEU:HD11	1.91	0.51
3:CF:63:ARG:NH2	3:CG:188:PHE:HA	2.25	0.51
3:CF:296:VAL:HG13	3:CF:301:VAL:HG11	1.91	0.51
4:EF:98:ASP:HB2	4:EF:105:LEU:HD11	1.91	0.51
2:BG:141:GLN:O	2:BG:145:ILE:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BH:101:ARG:HH22	2:BI:42:ALA:HB3	1.76	0.51
3:CH:120:PRO:HA	3:CH:123:VAL:HG12	1.93	0.51
4:EH:76:LYS:NZ	4:FH:58:MET:HB2	2.26	0.51
2:BJ:93:LEU:HD12	2:BK:35:GLN:OE1	2.10	0.51
2:BL:93:LEU:HD12	2:BM:35:GLN:OE1	2.09	0.51
3:CM:248:ASP:O	3:CM:252:ARG:HG2	2.11	0.51
2:BN:61:GLN:HA	2:BN:64:GLU:OE1	2.11	0.51
4:DR:101:ILE:HD11	4:ER:60:ILE:HG12	1.92	0.51
2:BS:78:ARG:NH1	2:BS:87:GLU:OE2	2.42	0.51
3:CT:77:PRO:HB3	3:CT:208:ILE:HG12	1.91	0.51
2:BU:139:ARG:NH1	2:BV:201:GLU:OE1	2.36	0.51
2:BV:49:ASN:O	2:BV:52:LEU:HG	2.11	0.51
3:CW:253:GLN:HG3	4:FX:131:ARG:HH22	1.74	0.51
2:BX:78:ARG:NH1	2:BX:87:GLU:OE2	2.43	0.51
2:BX:155:HIS:O	2:BX:159:LEU:HG	2.10	0.51
4:EY:74:THR:OG1	4:EY:75:ILE:N	2.43	0.51
4:E1:98:ASP:HB2	4:E1:105:LEU:HD11	1.90	0.51
1:A2:543:ASP:OD1	1:A2:545:ARG:NH1	2.44	0.51
4:D2:64:LEU:HA	4:D2:101:ILE:HG22	1.92	0.51
4:E2:77:GLU:O	4:E2:81:LEU:HG	2.11	0.51
4:E3:111:VAL:HG21	4:F3:68:LEU:HD11	1.92	0.51
4:F3:54:ILE:HG13	4:F3:55:ASP:N	2.25	0.51
3:C4:120:PRO:HA	3:C4:123:VAL:HG12	1.93	0.51
3:C6:205:HIS:HE1	3:C6:212:THR:HB	1.75	0.51
4:D6:64:LEU:HA	4:D6:101:ILE:HG22	1.92	0.51
2:B8:141:GLN:O	2:B8:145:ILE:HG12	2.10	0.51
2:BC:101:ARG:HH12	2:BD:42:ALA:HB3	1.75	0.51
2:BC:107:ILE:HD11	2:BC:136:HIS:NE2	2.26	0.51
2:BC:251:LEU:HD21	2:BC:274:PHE:HE1	1.74	0.51
3:CC:52:GLN:HE21	3:CC:234:PRO:HD3	1.76	0.51
3:CC:258:GLU:OE2	4:DC:72:ARG:NH1	2.43	0.51
4:DC:73:MET:HG2	4:DC:77:GLU:OE1	2.09	0.51
2:BD:134:LEU:HD21	2:BD:146:LEU:HD12	1.92	0.51
3:CD:120:PRO:HA	3:CD:123:VAL:HG12	1.93	0.51
3:CD:270:LEU:HB2	4:DD:64:LEU:HD23	1.92	0.51
4:DD:101:ILE:HD11	4:ED:60:ILE:HG12	1.91	0.51
4:EF:68:LEU:HG	4:FF:66:VAL:HG23	1.93	0.51
4:EH:58:MET:HA	4:FH:76:LYS:NZ	2.26	0.51
2:BK:141:GLN:O	2:BK:145:ILE:HG12	2.11	0.51
4:EK:111:VAL:HG21	4:FK:68:LEU:HD11	1.92	0.51
3:CL:248:ASP:O	3:CL:252:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FL:64:LEU:HA	4:FL:101:ILE:HA	1.93	0.51
3:CQ:77:PRO:HB3	3:CQ:208:ILE:HG12	1.91	0.51
2:BR:128:GLN:NE2	3:CR:132:GLY:O	2.43	0.51
3:CT:288:LYS:NZ	4:DT:116:ASP:O	2.43	0.51
4:ET:74:THR:HA	4:FT:61:PRO:HA	1.91	0.51
2:BU:155:HIS:O	2:BU:159:LEU:HG	2.10	0.51
2:BW:49:ASN:O	2:BW:52:LEU:HG	2.11	0.51
2:BX:158:MET:HG2	2:BY:214:VAL:HG13	1.90	0.51
3:CX:63:ARG:NH2	3:CY:188:PHE:HA	2.25	0.51
2:BY:203:ILE:HA	2:BY:206:MET:HG2	1.92	0.51
3:CY:77:PRO:HB3	3:CY:208:ILE:HG12	1.91	0.51
3:C1:120:PRO:HA	3:C1:123:VAL:HG12	1.93	0.51
2:B5:52:LEU:HA	2:B5:55:VAL:HG22	1.92	0.51
4:D6:73:MET:HG2	4:D6:77:GLU:OE1	2.11	0.51
3:C7:63:ARG:NH2	3:C8:188:PHE:HA	2.26	0.51
4:EA:74:THR:HA	4:FA:61:PRO:HA	1.92	0.51
4:EA:101:ILE:HG22	4:EA:102:ASN:OD1	2.10	0.51
2:BB:93:LEU:HD12	2:BC:35:GLN:OE1	2.10	0.51
3:CB:72:LEU:O	3:CB:74:ARG:NH1	2.44	0.51
3:CB:205:HIS:HE1	3:CB:212:THR:HB	1.75	0.51
3:CC:270:LEU:HB2	4:DC:64:LEU:HD23	1.93	0.51
2:BE:141:GLN:O	2:BE:145:ILE:HG12	2.11	0.51
2:BE:203:ILE:HA	2:BE:206:MET:HG2	1.93	0.51
3:CE:72:LEU:O	3:CE:74:ARG:NH1	2.44	0.51
2:BH:134:LEU:HD21	2:BH:146:LEU:HD12	1.92	0.51
4:EH:67:GLU:CD	4:FH:65:THR:HG21	2.31	0.51
3:CI:102:LEU:HD22	3:CI:189:THR:HG21	1.92	0.51
3:CL:205:HIS:HE1	3:CL:212:THR:HB	1.75	0.51
3:CL:258:GLU:HA	4:DL:74:THR:HG22	1.92	0.51
2:BM:78:ARG:NH1	2:BM:87:GLU:OE2	2.44	0.51
2:BO:141:GLN:O	2:BO:145:ILE:HG12	2.11	0.51
2:BP:78:ARG:NH1	2:BP:87:GLU:OE2	2.43	0.51
2:BQ:155:HIS:O	2:BQ:159:LEU:HG	2.10	0.51
3:CS:102:LEU:HD22	3:CS:189:THR:HG21	1.92	0.51
4:FT:66:VAL:HG12	4:FT:99:ILE:HG13	1.93	0.51
2:BU:327:GLU:OE1	2:BU:330:TYR:OH	2.25	0.51
3:CU:48:ARG:HH22	4:FU:92:LEU:HD21	1.76	0.51
3:CV:296:VAL:HG13	3:CV:301:VAL:HG11	1.93	0.51
2:BY:128:GLN:NE2	3:CY:132:GLY:O	2.43	0.51
3:CY:102:LEU:HD22	3:CY:189:THR:HG21	1.92	0.51
2:B3:93:LEU:HD12	2:B4:35:GLN:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:205:HIS:HE1	3:C3:212:THR:HB	1.75	0.51
2:B7:101:ARG:HH22	2:B8:42:ALA:HB3	1.74	0.51
3:C8:120:PRO:HA	3:C8:123:VAL:HG12	1.93	0.51
2:B9:151:GLU:HA	2:B9:154:ARG:NH1	2.26	0.51
4:DB:64:LEU:HA	4:DB:101:ILE:HG22	1.92	0.51
4:FB:71:THR:HG22	4:FB:89:LEU:HA	1.91	0.51
3:CC:205:HIS:HE1	3:CC:212:THR:HB	1.75	0.51
4:DC:108:GLN:N	4:DC:124:ASP:OD1	2.37	0.51
4:ED:98:ASP:HB2	4:ED:105:LEU:HD11	1.91	0.51
3:CF:205:HIS:HE1	3:CF:212:THR:HB	1.75	0.51
3:CF:272:LEU:HD23	4:DF:60:ILE:HB	1.93	0.51
2:BG:97:ILE:HG22	2:BG:101:ARG:NE	2.26	0.51
3:CI:120:PRO:HA	3:CI:123:VAL:HG12	1.93	0.51
3:CJ:77:PRO:HB3	3:CJ:208:ILE:HG12	1.91	0.51
3:CL:181:ARG:NE	3:CL:183:GLU:OE2	2.36	0.51
2:BM:141:GLN:O	2:BM:145:ILE:HG12	2.11	0.51
2:BM:218:VAL:HG13	2:BM:226:ALA:HB2	1.92	0.51
2:BQ:127:PRO:HB2	2:BQ:160:ARG:CZ	2.41	0.51
4:EQ:111:VAL:HG21	4:FQ:68:LEU:HD11	1.91	0.51
2:BS:52:LEU:HA	2:BS:55:VAL:HG22	1.93	0.51
2:BT:141:GLN:O	2:BT:145:ILE:HG12	2.11	0.51
2:BU:203:ILE:HA	2:BU:206:MET:HG2	1.92	0.51
2:BU:203:ILE:HD12	2:BU:214:VAL:HG11	1.92	0.51
3:CU:120:PRO:HA	3:CU:123:VAL:HG12	1.93	0.51
2:BV:93:LEU:HD12	2:BW:35:GLN:OE1	2.10	0.51
2:BV:203:ILE:HA	2:BV:206:MET:HG2	1.92	0.51
3:CV:270:LEU:HB2	4:DV:64:LEU:HD23	1.92	0.51
2:BW:139:ARG:NH1	2:BX:201:GLU:OE1	2.35	0.51
2:B1:203:ILE:HA	2:B1:206:MET:HG2	1.92	0.51
3:C2:125:ILE:HD12	3:C2:211:LEU:HB3	1.93	0.51
2:B3:78:ARG:NH1	2:B3:87:GLU:OE2	2.43	0.51
3:C3:125:ILE:HD12	3:C3:211:LEU:HB3	1.93	0.51
3:C4:270:LEU:HB2	4:D4:64:LEU:HD23	1.92	0.51
3:C5:52:GLN:HE21	3:C5:234:PRO:HD3	1.76	0.51
3:C7:102:LEU:HD22	3:C7:189:THR:HG21	1.93	0.51
2:B9:146:LEU:CD2	2:B9:154:ARG:HG3	2.41	0.51
4:EA:98:ASP:HB2	4:EA:105:LEU:HD11	1.91	0.51
4:DC:64:LEU:HA	4:DC:101:ILE:HG22	1.93	0.51
4:DF:105:LEU:O	4:DF:131:ARG:NH1	2.44	0.51
2:BH:101:ARG:HH12	2:BI:42:ALA:HB3	1.75	0.51
3:CI:253:GLN:NE2	4:FJ:106:ILE:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:127:PRO:HB2	2:BM:160:ARG:NE	2.26	0.51
4:EM:74:THR:HA	4:FM:61:PRO:HA	1.93	0.51
4:FM:54:ILE:HG13	4:FM:55:ASP:N	2.25	0.51
2:BN:101:ARG:HH12	2:BO:42:ALA:HB3	1.76	0.51
4:EO:111:VAL:HG21	4:FO:68:LEU:HD11	1.92	0.51
3:CP:77:PRO:HB3	3:CP:208:ILE:HG12	1.91	0.51
2:BQ:141:GLN:O	2:BQ:145:ILE:HG12	2.11	0.51
3:CR:52:GLN:HE21	3:CR:234:PRO:HD3	1.75	0.51
3:CR:291:ARG:NH1	3:CR:318:GLU:OE1	2.39	0.51
4:DS:108:GLN:N	4:DS:124:ASP:OD1	2.38	0.51
4:DT:78:LEU:HA	4:DT:81:LEU:HG	1.93	0.51
2:BU:160:ARG:HG2	3:CU:137:PHE:CE2	2.46	0.51
3:CU:102:LEU:HD22	3:CU:189:THR:HG21	1.92	0.51
3:CV:77:PRO:HB3	3:CV:208:ILE:HG12	1.91	0.51
2:BW:52:LEU:HA	2:BW:55:VAL:HG22	1.91	0.51
3:CX:248:ASP:O	3:CX:252:ARG:HG2	2.11	0.51
3:CY:120:PRO:HA	3:CY:123:VAL:HG12	1.93	0.51
2:B1:134:LEU:HD21	2:B1:146:LEU:HD12	1.93	0.51
3:C5:125:ILE:HD12	3:C5:211:LEU:HB3	1.93	0.51
3:CA:48:ARG:HH22	4:FA:92:LEU:HD21	1.76	0.51
3:CA:120:PRO:HA	3:CA:123:VAL:HG12	1.93	0.51
3:CD:144:ARG:NH1	3:CD:150:GLU:OE1	2.33	0.51
2:BE:77:LEU:HD21	2:BF:38:SER:HB3	1.92	0.51
4:FE:96:PRO:HB2	4:FE:108:GLN:HB3	1.93	0.51
3:CH:52:GLN:HE21	3:CH:234:PRO:HD3	1.76	0.51
4:DH:105:LEU:O	4:DH:131:ARG:NH1	2.44	0.51
4:FI:64:LEU:HA	4:FI:101:ILE:HA	1.93	0.51
4:EJ:98:ASP:HB2	4:EJ:105:LEU:HD11	1.92	0.51
2:BL:77:LEU:HD21	2:BM:38:SER:HB3	1.92	0.51
3:CL:120:PRO:HA	3:CL:123:VAL:HG12	1.93	0.51
4:EM:111:VAL:HG21	4:FM:68:LEU:HD11	1.92	0.51
3:CO:102:LEU:HD22	3:CO:189:THR:HG21	1.92	0.51
3:CS:291:ARG:NH1	3:CS:318:GLU:OE1	2.39	0.51
4:FS:64:LEU:HA	4:FS:101:ILE:HA	1.93	0.51
1:AT:529:ALA:HA	1:AT:532:MET:HG2	1.93	0.51
3:CT:120:PRO:HA	3:CT:123:VAL:HG12	1.93	0.51
4:ET:111:VAL:HG21	4:FT:68:LEU:HD11	1.92	0.51
3:CU:72:LEU:O	3:CU:74:ARG:NH1	2.44	0.51
4:EX:68:LEU:HG	4:FX:66:VAL:HG23	1.93	0.51
3:CY:52:GLN:HE21	3:CY:234:PRO:HD3	1.76	0.51
2:B1:141:GLN:O	2:B1:145:ILE:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:125:ILE:HD12	3:C1:211:LEU:HB3	1.93	0.51
2:B3:49:ASN:O	2:B3:52:LEU:HG	2.11	0.51
2:B3:203:ILE:HA	2:B3:206:MET:HG2	1.92	0.51
3:C3:48:ARG:HH22	4:F3:92:LEU:HD21	1.76	0.51
4:F3:109:GLY:HA3	4:F3:122:ILE:HA	1.93	0.51
2:B4:127:PRO:HB2	2:B4:160:ARG:CZ	2.41	0.51
4:D4:108:GLN:N	4:D4:124:ASP:OD1	2.37	0.51
3:C5:120:PRO:HA	3:C5:123:VAL:HG12	1.93	0.51
2:B6:111:ASN:OD1	2:B6:137:LEU:HB3	2.11	0.51
2:B6:141:GLN:O	2:B6:145:ILE:HG12	2.11	0.51
3:C6:270:LEU:HB2	4:D6:64:LEU:HD23	1.93	0.51
4:E6:126:ILE:HG13	4:E6:127:THR:H	1.75	0.51
2:B7:78:ARG:NH1	2:B7:87:GLU:OE2	2.43	0.51
3:C8:242:GLU:HG3	4:E9:82:THR:HB	1.92	0.51
2:BB:134:LEU:HD21	2:BB:146:LEU:HD12	1.93	0.51
3:CC:102:LEU:HD22	3:CC:189:THR:HG21	1.92	0.51
4:EC:98:ASP:HB2	4:EC:105:LEU:HD11	1.91	0.51
1:AE:533:SER:HA	1:AE:536:ILE:HG12	1.93	0.51
4:DF:73:MET:HG2	4:DF:77:GLU:OE1	2.12	0.51
2:BI:141:GLN:O	2:BI:145:ILE:HG12	2.11	0.51
3:CI:205:HIS:HE1	3:CI:212:THR:HB	1.75	0.51
4:DK:79:LEU:HG	4:FL:53:ASP:OD1	2.11	0.51
2:BM:327:GLU:OE1	2:BM:330:TYR:OH	2.25	0.51
2:BN:73:ALA:HB1	2:BO:42:ALA:HA	1.93	0.51
4:EN:109:GLY:HA3	4:EN:122:ILE:HA	1.91	0.51
4:DO:132:MET:HA	4:DO:135:LEU:HG	1.93	0.51
3:CQ:205:HIS:HE1	3:CQ:212:THR:HB	1.75	0.51
2:BR:78:ARG:NH1	2:BR:87:GLU:OE2	2.43	0.51
2:BR:101:ARG:HH12	2:BS:42:ALA:HB3	1.77	0.51
2:BR:141:GLN:O	2:BR:145:ILE:HG12	2.11	0.51
2:BR:158:MET:CE	2:BS:218:VAL:HB	2.41	0.51
3:CR:102:LEU:HD22	3:CR:189:THR:HG21	1.92	0.51
2:BS:141:GLN:O	2:BS:145:ILE:HG12	2.11	0.51
3:CT:125:ILE:HD12	3:CT:211:LEU:HB3	1.93	0.51
3:CT:205:HIS:HE1	3:CT:212:THR:HB	1.75	0.51
3:CT:258:GLU:OE2	4:DT:72:ARG:NH1	2.44	0.51
4:DU:108:GLN:N	4:DU:124:ASP:OD1	2.37	0.51
4:FU:54:ILE:HG13	4:FU:55:ASP:N	2.26	0.51
3:CV:205:HIS:HE1	3:CV:212:THR:HB	1.75	0.51
2:BW:127:PRO:HB2	2:BW:160:ARG:NE	2.25	0.51
2:BW:203:ILE:HA	2:BW:206:MET:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:102:LEU:HD22	3:CW:189:THR:HG21	1.93	0.51
3:CX:125:ILE:HD12	3:CX:211:LEU:HB3	1.93	0.51
4:EX:98:ASP:HB2	4:EX:105:LEU:HD11	1.93	0.51
3:CY:144:ARG:NH1	3:CY:150:GLU:OE1	2.32	0.51
2:B1:131:ALA:HB1	2:B1:161:ILE:HD11	1.92	0.50
1:A2:552:ARG:HD2	2:B3:45:ARG:HH12	1.77	0.50
4:E2:68:LEU:HG	4:F2:66:VAL:HG23	1.93	0.50
1:A5:529:ALA:HA	1:A5:532:MET:HG2	1.93	0.50
2:B6:327:GLU:OE1	2:B6:330:TYR:OH	2.25	0.50
3:C6:72:LEU:O	3:C6:74:ARG:NH1	2.44	0.50
1:A7:533:SER:HA	1:A7:536:ILE:HG12	1.93	0.50
3:C7:72:LEU:O	3:C7:74:ARG:NH1	2.44	0.50
3:C8:72:LEU:O	3:C8:74:ARG:NH1	2.44	0.50
4:E9:98:ASP:HB2	4:E9:105:LEU:HD11	1.92	0.50
2:BB:203:ILE:HD12	2:BB:214:VAL:HG11	1.92	0.50
4:EB:98:ASP:HB2	4:EB:105:LEU:HD11	1.91	0.50
2:BC:78:ARG:NH1	2:BC:87:GLU:OE2	2.44	0.50
3:CC:144:ARG:NH1	3:CC:150:GLU:OE1	2.34	0.50
3:CC:249:ASN:CG	4:FD:125:ILE:HD13	2.31	0.50
2:BD:78:ARG:NH1	2:BD:87:GLU:OE2	2.44	0.50
2:BD:101:ARG:HH12	2:BE:42:ALA:HB3	1.75	0.50
3:CD:102:LEU:HD22	3:CD:189:THR:HG21	1.92	0.50
3:CE:275:ILE:HD11	4:DE:64:LEU:HD21	1.92	0.50
4:DE:105:LEU:O	4:DE:131:ARG:NH1	2.44	0.50
3:CF:275:ILE:HD11	4:DF:64:LEU:HD21	1.93	0.50
4:EJ:128:PRO:HA	4:EJ:131:ARG:HG3	1.93	0.50
4:FJ:54:ILE:HG13	4:FJ:55:ASP:N	2.25	0.50
3:CK:275:ILE:HD11	4:DK:64:LEU:HD21	1.93	0.50
2:BL:49:ASN:O	2:BL:52:LEU:HG	2.11	0.50
3:CL:102:LEU:HD22	3:CL:189:THR:HG21	1.92	0.50
3:CL:288:LYS:NZ	4:DL:116:ASP:O	2.42	0.50
3:CM:275:ILE:HD11	4:DM:64:LEU:HD21	1.93	0.50
1:AN:546:VAL:HG13	2:BN:66:PHE:HB3	1.91	0.50
2:BN:141:GLN:O	2:BN:145:ILE:HG12	2.11	0.50
4:DN:73:MET:HG2	4:DN:77:GLU:OE1	2.10	0.50
1:AO:533:SER:HA	1:AO:536:ILE:HG12	1.93	0.50
3:CS:77:PRO:HB3	3:CS:208:ILE:HG12	1.91	0.50
2:BT:135:VAL:HG21	2:BT:161:ILE:HD12	1.92	0.50
3:CT:72:LEU:O	3:CT:74:ARG:NH1	2.44	0.50
3:CT:102:LEU:HD22	3:CT:189:THR:HG21	1.92	0.50
4:DT:79:LEU:HG	4:FU:53:ASP:OD1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EV:73:MET:SD	4:EV:77:GLU:OE2	2.69	0.50
4:EV:111:VAL:HG21	4:FV:68:LEU:HD11	1.92	0.50
1:AX:552:ARG:HD2	2:BY:45:ARG:HH12	1.76	0.50
4:EX:72:ARG:HH22	4:FX:62:VAL:N	2.08	0.50
4:EY:83:GLN:OE1	4:EY:83:GLN:N	2.42	0.50
1:A1:526:ARG:O	1:A1:530:GLU:HG2	2.11	0.50
1:A3:552:ARG:HD2	2:B4:45:ARG:HH12	1.75	0.50
2:B3:155:HIS:O	2:B3:159:LEU:HG	2.11	0.50
3:C3:43:GLN:NE2	3:C3:197:ASP:OD1	2.45	0.50
2:B4:52:LEU:HA	2:B4:55:VAL:HG22	1.91	0.50
2:B4:141:GLN:O	2:B4:145:ILE:HG12	2.11	0.50
3:C4:246:TRP:CH2	4:F5:122:ILE:HD12	2.46	0.50
4:F4:108:GLN:HG3	4:F4:126:ILE:HD11	1.93	0.50
2:B5:49:ASN:O	2:B5:52:LEU:HG	2.11	0.50
2:B6:131:ALA:HB1	2:B6:161:ILE:HD11	1.92	0.50
3:C6:275:ILE:HD11	4:D6:64:LEU:HD21	1.91	0.50
3:C9:120:PRO:HA	3:C9:123:VAL:HG12	1.93	0.50
4:DB:71:THR:HG23	4:DB:73:MET:HB2	1.93	0.50
2:BC:251:LEU:HD21	2:BC:274:PHE:CE1	2.45	0.50
2:BD:52:LEU:HA	2:BD:55:VAL:HG22	1.93	0.50
3:CE:102:LEU:HD22	3:CE:189:THR:HG21	1.92	0.50
3:CE:144:ARG:NH1	3:CE:150:GLU:OE1	2.34	0.50
2:BF:77:LEU:HD21	2:BG:38:SER:HB3	1.92	0.50
3:CF:102:LEU:HD22	3:CF:189:THR:HG21	1.93	0.50
4:FF:54:ILE:HG13	4:FF:55:ASP:H	1.76	0.50
2:BG:158:MET:HE3	2:BH:214:VAL:O	2.12	0.50
2:BG:316:ALA:HA	2:BG:321:MET:HB3	1.93	0.50
3:CI:48:ARG:HH22	4:FI:92:LEU:HD21	1.77	0.50
4:EI:61:PRO:HB2	4:FI:72:ARG:NH2	2.26	0.50
4:FI:109:GLY:HA3	4:FI:122:ILE:HA	1.93	0.50
3:CJ:249:ASN:CG	4:FK:125:ILE:HD13	2.32	0.50
4:FJ:107:ALA:HA	4:FJ:126:ILE:HG12	1.94	0.50
1:AK:526:ARG:O	1:AK:530:GLU:HG2	2.12	0.50
4:DK:105:LEU:O	4:DK:131:ARG:NH1	2.44	0.50
2:BL:23:ALA:O	2:BL:27:LYS:HG2	2.12	0.50
2:BM:23:ALA:O	2:BM:27:LYS:HG2	2.11	0.50
3:CN:144:ARG:NH1	3:CN:150:GLU:OE1	2.32	0.50
2:BO:49:ASN:O	2:BO:52:LEU:HG	2.11	0.50
1:AP:533:SER:HA	1:AP:536:ILE:HG12	1.93	0.50
2:BP:127:PRO:HB2	2:BP:160:ARG:NE	2.26	0.50
3:CP:144:ARG:NH1	3:CP:150:GLU:OE1	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DQ:64:LEU:HA	4:DQ:101:ILE:HG22	1.94	0.50
3:CR:48:ARG:HH22	4:FR:92:LEU:HD21	1.77	0.50
2:BS:190:ARG:CZ	2:BS:192:LYS:HA	2.41	0.50
2:BT:52:LEU:HA	2:BT:55:VAL:HG22	1.93	0.50
3:CU:125:ILE:HD12	3:CU:211:LEU:HB3	1.93	0.50
1:AV:533:SER:HA	1:AV:536:ILE:HG12	1.93	0.50
2:BV:101:ARG:HH12	2:BW:42:ALA:CB	2.25	0.50
3:CW:72:LEU:O	3:CW:74:ARG:NH1	2.44	0.50
3:CW:296:VAL:HG13	3:CW:301:VAL:HG11	1.92	0.50
2:BY:141:GLN:O	2:BY:145:ILE:HG12	2.11	0.50
4:DY:105:LEU:O	4:DY:131:ARG:NH1	2.43	0.50
3:C2:120:PRO:HA	3:C2:123:VAL:HG12	1.93	0.50
4:E2:98:ASP:HB2	4:E2:105:LEU:HD11	1.91	0.50
2:B3:158:MET:CE	2:B4:218:VAL:HB	2.41	0.50
3:C3:102:LEU:HD22	3:C3:189:THR:HG21	1.93	0.50
4:E3:73:MET:HE1	4:E3:78:LEU:CG	2.36	0.50
4:E3:126:ILE:HG13	4:E3:127:THR:H	1.75	0.50
2:B4:127:PRO:HB2	2:B4:160:ARG:NE	2.26	0.50
3:C4:72:LEU:O	3:C4:74:ARG:NH1	2.44	0.50
3:C5:288:LYS:NZ	4:D5:116:ASP:O	2.42	0.50
2:BA:23:ALA:O	2:BA:27:LYS:HG2	2.12	0.50
2:BA:218:VAL:HG13	2:BA:226:ALA:HB2	1.92	0.50
3:CA:102:LEU:HD22	3:CA:189:THR:HG21	1.92	0.50
2:BC:52:LEU:HA	2:BC:55:VAL:HG22	1.93	0.50
2:BC:158:MET:HE3	2:BD:214:VAL:O	2.11	0.50
4:EC:105:LEU:O	4:EC:131:ARG:NH2	2.39	0.50
2:BD:327:GLU:OE1	2:BD:330:TYR:OH	2.22	0.50
3:CD:48:ARG:HH22	4:FD:92:LEU:HD21	1.76	0.50
2:BE:23:ALA:O	2:BE:27:LYS:HG2	2.12	0.50
3:CH:270:LEU:HB2	4:DH:64:LEU:HD23	1.93	0.50
3:CJ:275:ILE:HD11	4:DJ:64:LEU:HD21	1.92	0.50
1:AK:552:ARG:HD2	2:BL:45:ARG:HH12	1.76	0.50
2:BK:139:ARG:NH1	2:BL:201:GLU:OE1	2.37	0.50
3:CM:77:PRO:HB3	3:CM:208:ILE:HG12	1.91	0.50
3:CN:288:LYS:NZ	4:DN:116:ASP:O	2.40	0.50
4:ER:111:VAL:HG21	4:FR:68:LEU:HD11	1.91	0.50
3:CT:52:GLN:HE21	3:CT:234:PRO:HD3	1.76	0.50
4:DT:73:MET:HG2	4:DT:77:GLU:OE1	2.11	0.50
2:BU:77:LEU:HD21	2:BV:38:SER:HB3	1.94	0.50
3:CU:112:GLY:HA3	3:CU:223:MET:SD	2.51	0.50
3:CU:291:ARG:NH1	3:CU:318:GLU:OE1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CV:72:LEU:O	3:CV:74:ARG:NH1	2.44	0.50
4:EV:98:ASP:HB2	4:EV:105:LEU:HD11	1.92	0.50
3:CW:144:ARG:NH1	3:CW:150:GLU:OE1	2.32	0.50
2:BX:52:LEU:HA	2:BX:55:VAL:HG22	1.93	0.50
2:BX:93:LEU:HD12	2:BY:35:GLN:OE1	2.10	0.50
2:BX:131:ALA:O	2:BX:135:VAL:HG22	2.11	0.50
3:CY:205:HIS:HE1	3:CY:212:THR:HB	1.75	0.50
3:C1:275:ILE:HD11	4:D1:64:LEU:HD21	1.91	0.50
3:C1:288:LYS:NZ	4:D1:116:ASP:O	2.43	0.50
3:C1:291:ARG:NH1	3:C1:318:GLU:OE1	2.40	0.50
3:C3:112:GLY:HA3	3:C3:223:MET:SD	2.52	0.50
2:B4:139:ARG:NH1	2:B5:201:GLU:OE1	2.36	0.50
3:C4:125:ILE:HD12	3:C4:211:LEU:HB3	1.93	0.50
3:C4:249:ASN:ND2	4:F5:125:ILE:HD13	2.26	0.50
3:C5:72:LEU:O	3:C5:74:ARG:NH1	2.44	0.50
4:D5:72:ARG:HA	4:D5:72:ARG:NE	2.27	0.50
2:B6:166:GLY:HA3	2:B7:190:ARG:HH12	1.77	0.50
2:B6:203:ILE:HA	2:B6:206:MET:HG2	1.93	0.50
3:C6:125:ILE:HD12	3:C6:211:LEU:HB3	1.93	0.50
2:B7:23:ALA:O	2:B7:27:LYS:HG2	2.12	0.50
3:C9:125:ILE:HD12	3:C9:211:LEU:HB3	1.93	0.50
1:AB:518:LEU:O	1:AB:522:ARG:HG3	2.11	0.50
1:AB:543:ASP:OD1	1:AB:545:ARG:NH1	2.44	0.50
3:CC:275:ILE:HD11	4:DC:64:LEU:HD21	1.92	0.50
3:CF:72:LEU:O	3:CF:74:ARG:NH1	2.44	0.50
1:AG:543:ASP:OD1	1:AG:545:ARG:NH1	2.43	0.50
3:CG:120:PRO:HA	3:CG:123:VAL:HG12	1.94	0.50
2:BH:155:HIS:O	2:BH:159:LEU:HG	2.11	0.50
2:BH:203:ILE:HA	2:BH:206:MET:HG2	1.93	0.50
4:EH:74:THR:OG1	4:EH:75:ILE:N	2.43	0.50
2:BI:23:ALA:O	2:BI:27:LYS:HG2	2.12	0.50
3:CJ:63:ARG:NH2	3:CK:188:PHE:HA	2.26	0.50
3:CK:112:GLY:HA3	3:CK:223:MET:SD	2.51	0.50
3:CL:48:ARG:HH22	4:FL:92:LEU:HD21	1.77	0.50
2:BM:161:ILE:HG22	2:BN:199:ALA:HB2	1.94	0.50
2:BO:23:ALA:O	2:BO:27:LYS:HG2	2.12	0.50
2:BO:155:HIS:O	2:BO:159:LEU:HG	2.11	0.50
3:CO:48:ARG:HH22	4:FO:92:LEU:HD21	1.77	0.50
2:BP:23:ALA:O	2:BP:27:LYS:HG2	2.12	0.50
2:BP:141:GLN:O	2:BP:145:ILE:HG12	2.11	0.50
2:BQ:73:ALA:HB1	2:BR:42:ALA:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CR:120:PRO:HA	3:CR:123:VAL:HG12	1.93	0.50
3:CS:72:LEU:O	3:CS:74:ARG:NH1	2.44	0.50
1:AT:526:ARG:O	1:AT:530:GLU:HG2	2.12	0.50
2:BT:23:ALA:O	2:BT:27:LYS:HG2	2.12	0.50
2:BT:101:ARG:HH22	2:BU:42:ALA:HB3	1.77	0.50
3:CU:43:GLN:NE2	3:CU:197:ASP:OD1	2.45	0.50
2:BV:141:GLN:O	2:BV:145:ILE:HG12	2.11	0.50
2:BW:78:ARG:NH1	2:BW:87:GLU:OE2	2.43	0.50
1:AX:543:ASP:OD1	1:AX:545:ARG:NH1	2.43	0.50
3:CX:48:ARG:HH22	4:FX:92:LEU:HD21	1.77	0.50
2:BY:155:HIS:O	2:BY:159:LEU:HG	2.11	0.50
3:CY:288:LYS:NZ	4:DY:116:ASP:O	2.39	0.50
1:A1:543:ASP:OD1	1:A1:545:ARG:NH1	2.45	0.50
3:C1:144:ARG:NH1	3:C1:150:GLU:OE1	2.32	0.50
3:C1:249:ASN:HB3	4:F2:125:ILE:HG21	1.93	0.50
2:B2:203:ILE:HA	2:B2:206:MET:HG2	1.93	0.50
3:C2:144:ARG:NH1	3:C2:150:GLU:OE1	2.32	0.50
3:C3:72:LEU:O	3:C3:74:ARG:NH1	2.44	0.50
3:C3:291:ARG:NH1	3:C3:318:GLU:OE1	2.40	0.50
3:C4:272:LEU:HD23	4:D4:60:ILE:HB	1.94	0.50
2:B5:155:HIS:O	2:B5:159:LEU:HG	2.11	0.50
3:C5:102:LEU:HD22	3:C5:189:THR:HG21	1.93	0.50
3:C5:291:ARG:NH1	3:C5:318:GLU:OE1	2.39	0.50
2:B6:23:ALA:O	2:B6:27:LYS:HG2	2.12	0.50
4:E6:98:ASP:HB2	4:E6:105:LEU:HD11	1.91	0.50
1:A7:546:VAL:HG13	2:B7:66:PHE:HB3	1.93	0.50
2:B7:77:LEU:HD21	2:B8:38:SER:HB3	1.94	0.50
3:C7:125:ILE:HD12	3:C7:211:LEU:HB3	1.94	0.50
4:E8:105:LEU:O	4:E8:131:ARG:NH2	2.36	0.50
3:C9:102:LEU:HD22	3:C9:189:THR:HG21	1.93	0.50
4:DA:101:ILE:HD11	4:EA:60:ILE:HG12	1.92	0.50
2:BB:23:ALA:O	2:BB:27:LYS:HG2	2.12	0.50
2:BF:101:ARG:HH22	2:BG:42:ALA:HB3	1.75	0.50
2:BI:136:HIS:NE2	2:BJ:193:MET:SD	2.85	0.50
1:AJ:526:ARG:O	1:AJ:530:GLU:HG2	2.12	0.50
2:BJ:23:ALA:O	2:BJ:27:LYS:HG2	2.12	0.50
3:CJ:102:LEU:HD22	3:CJ:189:THR:HG21	1.93	0.50
2:BK:158:MET:CE	2:BL:218:VAL:HB	2.42	0.50
3:CM:43:GLN:NE2	3:CM:197:ASP:OD1	2.44	0.50
3:CM:48:ARG:HH22	4:FM:92:LEU:HD21	1.76	0.50
3:CN:43:GLN:NE2	3:CN:197:ASP:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:68:LEU:HG	4:FN:66:VAL:HG23	1.94	0.50
1:AP:526:ARG:O	1:AP:530:GLU:HG2	2.12	0.50
2:BP:101:ARG:HH22	2:BQ:42:ALA:HB3	1.76	0.50
4:EP:68:LEU:HG	4:FP:66:VAL:HG23	1.94	0.50
4:EP:76:LYS:NZ	4:FP:58:MET:HB2	2.26	0.50
3:CQ:52:GLN:HE21	3:CQ:234:PRO:HD3	1.76	0.50
4:EQ:68:LEU:HG	4:FQ:66:VAL:HG23	1.94	0.50
2:BS:23:ALA:O	2:BS:27:LYS:HG2	2.12	0.50
2:BS:101:ARG:HH22	2:BT:42:ALA:HB3	1.77	0.50
3:CS:52:GLN:HE21	3:CS:234:PRO:HD3	1.76	0.50
2:BT:155:HIS:O	2:BT:159:LEU:HG	2.11	0.50
2:BU:52:LEU:HA	2:BU:55:VAL:HG22	1.93	0.50
2:BU:77:LEU:HD22	2:BV:41:MET:SD	2.51	0.50
3:CV:125:ILE:HD12	3:CV:211:LEU:HB3	1.94	0.50
3:CW:125:ILE:HD12	3:CW:211:LEU:HB3	1.94	0.50
3:CW:291:ARG:NH1	3:CW:318:GLU:OE1	2.40	0.50
3:CY:270:LEU:HB2	4:DY:64:LEU:HD23	1.92	0.50
4:EY:98:ASP:HB2	4:EY:105:LEU:HD11	1.91	0.50
2:B1:38:SER:HB3	2:BY:77:LEU:HD21	1.93	0.50
2:B2:141:GLN:O	2:B2:145:ILE:HG12	2.11	0.50
4:E2:83:GLN:OE1	4:E2:83:GLN:N	2.36	0.50
1:A6:533:SER:HA	1:A6:536:ILE:HG12	1.94	0.50
3:C6:102:LEU:HD22	3:C6:189:THR:HG21	1.93	0.50
2:B8:78:ARG:NH1	2:B8:87:GLU:OE2	2.45	0.50
3:C8:52:GLN:HE21	3:C8:234:PRO:HD3	1.76	0.50
3:C8:125:ILE:HD12	3:C8:211:LEU:HB3	1.93	0.50
3:C8:248:ASP:O	3:C8:252:ARG:HG2	2.11	0.50
1:AB:533:SER:HA	1:AB:536:ILE:HG12	1.93	0.50
2:BB:101:ARG:HH12	2:BC:42:ALA:CB	2.25	0.50
3:CB:102:LEU:HD22	3:CB:189:THR:HG21	1.93	0.50
1:AE:526:ARG:O	1:AE:530:GLU:HG2	2.12	0.50
2:BE:70:ASN:HA	2:BF:15:MET:HE1	1.94	0.50
3:CE:258:GLU:OE1	4:DE:73:MET:N	2.44	0.50
3:CF:120:PRO:HA	3:CF:123:VAL:HG12	1.94	0.50
3:CG:72:LEU:O	3:CG:74:ARG:NH1	2.44	0.50
3:CH:72:LEU:O	3:CH:74:ARG:NH1	2.44	0.50
2:BJ:194:GLY:O	2:BJ:198:THR:OG1	2.24	0.50
3:CJ:120:PRO:HA	3:CJ:123:VAL:HG12	1.94	0.50
4:EJ:61:PRO:HB2	4:FJ:72:ARG:HH21	1.77	0.50
2:BK:23:ALA:O	2:BK:27:LYS:HG2	2.12	0.50
3:CL:144:ARG:NH1	3:CL:150:GLU:OE1	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:102:LEU:HD22	3:CM:189:THR:HG21	1.93	0.50
3:CM:270:LEU:HB2	4:DM:64:LEU:HD23	1.93	0.50
3:CN:48:ARG:HH22	4:FN:92:LEU:HD21	1.76	0.50
2:BO:107:ILE:HD11	2:BO:136:HIS:NE2	2.27	0.50
2:BO:132:THR:O	2:BP:193:MET:HE1	2.11	0.50
1:AQ:533:SER:HA	1:AQ:536:ILE:HG12	1.94	0.50
2:BR:161:ILE:HG22	2:BS:199:ALA:HB2	1.94	0.50
3:CR:72:LEU:O	3:CR:74:ARG:NH1	2.44	0.50
3:CR:125:ILE:HD12	3:CR:211:LEU:HB3	1.94	0.50
3:CR:275:ILE:HD11	4:DR:64:LEU:HD21	1.94	0.50
4:ER:74:THR:HA	4:FR:61:PRO:HA	1.94	0.50
3:CS:144:ARG:NH1	3:CS:150:GLU:OE1	2.32	0.50
4:FT:101:ILE:HG23	4:FT:106:ILE:HG13	1.94	0.50
4:EU:68:LEU:HG	4:FU:66:VAL:HG23	1.94	0.50
2:BW:23:ALA:O	2:BW:27:LYS:HG2	2.11	0.50
3:CW:272:LEU:HD23	4:DW:60:ILE:HB	1.93	0.50
1:AX:529:ALA:HA	1:AX:532:MET:HG2	1.94	0.50
3:CY:258:GLU:OE1	4:DY:73:MET:N	2.44	0.50
4:D1:105:LEU:O	4:D1:131:ARG:NH1	2.44	0.50
2:B3:23:ALA:O	2:B3:27:LYS:HG2	2.12	0.50
2:B3:52:LEU:HA	2:B3:55:VAL:HG22	1.92	0.50
1:A5:546:VAL:HG13	2:B5:66:PHE:HB3	1.94	0.50
2:B7:101:ARG:HH12	2:B8:42:ALA:CB	2.24	0.50
3:C8:102:LEU:HD22	3:C8:189:THR:HG21	1.93	0.50
3:CA:125:ILE:HD12	3:CA:211:LEU:HB3	1.93	0.50
2:BD:131:ALA:HB1	2:BD:161:ILE:HD11	1.92	0.50
2:BD:141:GLN:O	2:BD:145:ILE:HG12	2.11	0.50
3:CD:43:GLN:NE2	3:CD:197:ASP:OD1	2.45	0.50
2:BF:49:ASN:O	2:BF:52:LEU:HG	2.11	0.50
4:DF:134:ARG:O	4:DF:137:ARG:HG3	2.12	0.50
2:BG:155:HIS:O	2:BG:159:LEU:HG	2.12	0.50
2:BI:52:LEU:HA	2:BI:55:VAL:HG22	1.93	0.50
4:DJ:108:GLN:N	4:DJ:124:ASP:OD1	2.38	0.50
2:BK:155:HIS:O	2:BK:159:LEU:HG	2.11	0.50
3:CK:144:ARG:NH1	3:CK:150:GLU:OE1	2.33	0.50
3:CL:275:ILE:HD11	4:DL:64:LEU:HD21	1.94	0.50
3:CO:249:ASN:ND2	4:FP:125:ILE:HD13	2.24	0.50
4:EO:76:LYS:NZ	4:FO:58:MET:HB2	2.27	0.50
2:BP:131:ALA:HB1	2:BP:161:ILE:HD11	1.93	0.50
3:CP:125:ILE:HD12	3:CP:211:LEU:HB3	1.93	0.50
3:CP:242:GLU:HG3	4:EQ:82:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:270:LEU:HB2	4:DP:64:LEU:HD23	1.93	0.50
3:CQ:43:GLN:NE2	3:CQ:197:ASP:OD1	2.45	0.50
3:CT:43:GLN:NE2	3:CT:197:ASP:OD1	2.45	0.50
1:AU:543:ASP:OD1	1:AU:545:ARG:NH1	2.45	0.50
2:BU:141:GLN:O	2:BU:145:ILE:HG12	2.11	0.50
3:CU:242:GLU:HG3	4:EV:82:THR:HB	1.92	0.50
3:CW:275:ILE:HD11	4:DW:64:LEU:HD21	1.93	0.50
2:BX:23:ALA:O	2:BX:27:LYS:HG2	2.12	0.50
4:EY:73:MET:SD	4:EY:77:GLU:HG2	2.52	0.50
1:A2:546:VAL:HG13	2:B2:66:PHE:HB3	1.94	0.50
2:B2:23:ALA:O	2:B2:27:LYS:HG2	2.12	0.50
3:C2:72:LEU:O	3:C2:74:ARG:NH1	2.44	0.50
4:D3:105:LEU:O	4:D3:131:ARG:NH1	2.44	0.50
3:C6:249:ASN:CG	4:F7:125:ILE:HD13	2.32	0.50
1:A7:543:ASP:OD1	1:A7:545:ARG:NH1	2.45	0.50
2:B7:12:ILE:HG12	2:B7:47:ILE:HG12	1.92	0.50
2:B7:141:GLN:O	2:B7:145:ILE:HG12	2.11	0.50
3:C7:120:PRO:HA	3:C7:123:VAL:HG12	1.94	0.50
3:C7:280:PRO:HA	4:D7:122:ILE:HG13	1.94	0.50
4:E7:117:LYS:HZ2	4:F7:92:LEU:HA	1.76	0.50
3:C8:280:PRO:HA	4:D8:122:ILE:HG13	1.94	0.50
4:D8:72:ARG:NE	4:D8:72:ARG:HA	2.27	0.50
1:A9:533:SER:HA	1:A9:536:ILE:HG12	1.94	0.50
3:CA:275:ILE:HD11	4:DA:64:LEU:HD21	1.94	0.50
2:BB:141:GLN:O	2:BB:145:ILE:HG12	2.11	0.50
3:CB:120:PRO:HA	3:CB:123:VAL:HG12	1.94	0.50
3:CC:125:ILE:HD12	3:CC:211:LEU:HB3	1.93	0.50
3:CD:125:ILE:HD12	3:CD:211:LEU:HB3	1.93	0.50
3:CD:249:ASN:CG	4:FE:125:ILE:HD13	2.32	0.50
2:BE:52:LEU:HA	2:BE:55:VAL:HG22	1.94	0.50
3:CE:43:GLN:NE2	3:CE:197:ASP:OD1	2.45	0.50
3:CF:43:GLN:NE2	3:CF:197:ASP:OD1	2.45	0.50
1:AG:552:ARG:HD2	2:BH:45:ARG:HH12	1.77	0.50
2:BG:23:ALA:O	2:BG:27:LYS:HG2	2.12	0.50
2:BG:78:ARG:NH1	2:BG:87:GLU:OE2	2.45	0.50
2:BG:93:LEU:HD12	2:BH:35:GLN:OE1	2.12	0.50
2:BH:23:ALA:O	2:BH:27:LYS:HG2	2.12	0.50
2:BI:101:ARG:HH22	2:BJ:42:ALA:HB3	1.76	0.50
4:DI:105:LEU:O	4:DI:131:ARG:NH1	2.44	0.50
2:BL:134:LEU:HD21	2:BL:146:LEU:HD12	1.92	0.50
3:CM:120:PRO:HA	3:CM:123:VAL:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:78:ARG:NH1	2:BN:87:GLU:OE2	2.44	0.50
4:EN:126:ILE:HG13	4:EN:127:THR:H	1.77	0.50
3:CO:125:ILE:HD12	3:CO:211:LEU:HB3	1.93	0.50
4:EP:117:LYS:HZ2	4:FP:92:LEU:HA	1.77	0.50
3:CQ:48:ARG:HH22	4:FQ:92:LEU:HD21	1.76	0.50
3:CR:261:LEU:HD22	4:DR:73:MET:HE2	1.94	0.50
4:ET:68:LEU:HG	4:FT:66:VAL:HG23	1.94	0.50
4:DW:108:GLN:N	4:DW:124:ASP:OD1	2.37	0.50
2:BX:141:GLN:O	2:BX:145:ILE:HG12	2.11	0.50
3:CX:72:LEU:O	3:CX:74:ARG:NH1	2.44	0.50
3:CX:102:LEU:HD22	3:CX:189:THR:HG21	1.93	0.50
2:BY:9:LYS:HA	2:BY:12:ILE:HD12	1.94	0.50
3:CY:125:ILE:HD12	3:CY:211:LEU:HB3	1.94	0.50
3:CY:291:ARG:NH1	3:CY:318:GLU:OE1	2.40	0.50
1:A1:529:ALA:HA	1:A1:532:MET:HG2	1.94	0.50
2:B1:101:ARG:HH22	2:B2:42:ALA:HB3	1.77	0.50
3:C1:43:GLN:NE2	3:C1:197:ASP:OD1	2.45	0.50
3:C4:144:ARG:NH1	3:C4:150:GLU:OE1	2.33	0.50
3:C4:248:ASP:O	3:C4:252:ARG:HG2	2.11	0.50
3:C5:275:ILE:HD11	4:D5:64:LEU:HD21	1.93	0.50
4:D5:108:GLN:N	4:D5:124:ASP:OD1	2.38	0.50
1:A6:543:ASP:OD1	1:A6:545:ARG:NH1	2.45	0.50
3:C6:291:ARG:NH1	3:C6:318:GLU:OE1	2.40	0.50
4:D6:135:LEU:HD22	4:E7:132:MET:HG3	1.93	0.50
1:A8:533:SER:HA	1:A8:536:ILE:HG12	1.94	0.50
3:C8:48:ARG:HH22	4:F8:92:LEU:HD21	1.77	0.50
3:C9:280:PRO:HA	4:D9:122:ILE:HG13	1.94	0.50
3:CA:43:GLN:NE2	3:CA:197:ASP:OD1	2.45	0.50
3:CA:280:PRO:HA	4:DA:122:ILE:HG13	1.94	0.50
3:CB:125:ILE:HD12	3:CB:211:LEU:HB3	1.93	0.50
3:CC:291:ARG:NH1	3:CC:318:GLU:OE1	2.38	0.50
2:BD:73:ALA:HB1	2:BE:42:ALA:HA	1.94	0.50
3:CD:112:GLY:HA3	3:CD:223:MET:SD	2.52	0.50
2:BF:23:ALA:O	2:BF:27:LYS:HG2	2.12	0.50
2:BF:134:LEU:HD21	2:BF:146:LEU:HD12	1.94	0.50
2:BF:141:GLN:O	2:BF:145:ILE:HG12	2.11	0.50
3:CF:48:ARG:HH22	4:FF:92:LEU:HD21	1.77	0.50
4:EG:77:GLU:O	4:EG:81:LEU:HG	2.12	0.50
3:CH:102:LEU:HD22	3:CH:189:THR:HG21	1.93	0.50
1:AI:526:ARG:O	1:AI:530:GLU:HG2	2.12	0.50
2:BI:155:HIS:O	2:BI:159:LEU:HG	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:72:LEU:O	3:CI:74:ARG:NH1	2.44	0.50
1:AJ:529:ALA:HA	1:AJ:532:MET:HG2	1.93	0.50
1:AK:529:ALA:HA	1:AK:532:MET:HG2	1.93	0.50
3:CK:48:ARG:HH22	4:FK:92:LEU:HD21	1.76	0.50
2:BL:141:GLN:O	2:BL:145:ILE:HG12	2.11	0.50
3:CL:72:LEU:O	3:CL:74:ARG:NH1	2.44	0.50
4:EL:76:LYS:NZ	4:FL:58:MET:HB2	2.27	0.50
2:BM:49:ASN:O	2:BM:52:LEU:HG	2.11	0.50
3:CM:72:LEU:O	3:CM:74:ARG:NH1	2.44	0.50
2:BN:12:ILE:HD13	2:BN:55:VAL:HG21	1.94	0.50
2:BN:316:ALA:HA	2:BN:321:MET:HB3	1.94	0.50
3:CN:102:LEU:HD22	3:CN:189:THR:HG21	1.93	0.50
4:DN:108:GLN:N	4:DN:124:ASP:OD1	2.37	0.50
3:CO:144:ARG:NH1	3:CO:150:GLU:OE1	2.33	0.50
3:CP:48:ARG:HH22	4:FP:92:LEU:HD21	1.76	0.50
3:CP:52:GLN:HE21	3:CP:234:PRO:HD3	1.76	0.50
3:CQ:72:LEU:O	3:CQ:74:ARG:NH1	2.44	0.50
3:CQ:120:PRO:HA	3:CQ:123:VAL:HG12	1.93	0.50
4:DQ:105:LEU:O	4:DQ:131:ARG:NH1	2.44	0.50
1:AR:533:SER:HA	1:AR:536:ILE:HG12	1.94	0.50
3:CS:125:ILE:HD12	3:CS:211:LEU:HB3	1.94	0.50
1:AT:543:ASP:OD1	1:AT:545:ARG:NH1	2.45	0.50
3:CT:220:PRO:O	3:CT:223:MET:HB2	2.12	0.50
3:CX:43:GLN:NE2	3:CX:197:ASP:OD1	2.45	0.50
3:CX:291:ARG:NH1	3:CX:318:GLU:OE1	2.40	0.50
2:BY:203:ILE:HD12	2:BY:214:VAL:HG11	1.94	0.50
3:CY:43:GLN:NE2	3:CY:197:ASP:OD1	2.45	0.50
2:B1:128:GLN:NE2	3:C1:132:GLY:O	2.45	0.49
2:B4:23:ALA:O	2:B4:27:LYS:HG2	2.12	0.49
2:B4:49:ASN:O	2:B4:52:LEU:HG	2.11	0.49
3:C5:48:ARG:HH22	4:F5:92:LEU:HD21	1.77	0.49
3:C6:101:ASN:ND2	3:C6:103:ASN:HD21	2.10	0.49
2:B8:23:ALA:O	2:B8:27:LYS:HG2	2.12	0.49
4:D9:108:GLN:N	4:D9:124:ASP:OD1	2.37	0.49
1:AA:533:SER:HA	1:AA:536:ILE:HG12	1.94	0.49
2:BA:111:ASN:OD1	2:BA:137:LEU:HB3	2.12	0.49
4:EA:76:LYS:NZ	4:FA:58:MET:HB2	2.27	0.49
3:CB:43:GLN:NE2	3:CB:197:ASP:OD1	2.45	0.49
3:CC:280:PRO:HA	4:DC:122:ILE:HG13	1.94	0.49
2:BF:158:MET:CE	2:BG:218:VAL:HB	2.41	0.49
4:EF:82:THR:HB	4:EF:83:GLN:OE1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:126:ILE:HG13	4:EF:127:THR:H	1.77	0.49
3:CG:102:LEU:HD22	3:CG:189:THR:HG21	1.93	0.49
2:BH:107:ILE:HD11	2:BH:136:HIS:NE2	2.27	0.49
4:DH:101:ILE:HD11	4:EH:60:ILE:HG12	1.94	0.49
3:CI:270:LEU:HB2	4:DI:64:LEU:HD23	1.94	0.49
2:BJ:161:ILE:HG22	2:BK:199:ALA:HB2	1.94	0.49
3:CJ:249:ASN:HD22	4:FK:125:ILE:HG21	1.77	0.49
3:CK:102:LEU:HD22	3:CK:189:THR:HG21	1.93	0.49
4:FK:107:ALA:HA	4:FK:126:ILE:HG12	1.93	0.49
2:BL:52:LEU:HA	2:BL:55:VAL:HG22	1.94	0.49
4:FL:54:ILE:HG13	4:FL:55:ASP:N	2.27	0.49
3:CN:63:ARG:NH2	3:CO:188:PHE:HA	2.26	0.49
3:CN:125:ILE:HD12	3:CN:211:LEU:HB3	1.93	0.49
3:CN:270:LEU:HB2	4:DN:64:LEU:HD23	1.93	0.49
3:CP:43:GLN:NE2	3:CP:197:ASP:OD1	2.45	0.49
3:CP:72:LEU:O	3:CP:74:ARG:NH1	2.44	0.49
4:DP:101:ILE:HD11	4:EP:60:ILE:HG12	1.93	0.49
2:BQ:23:ALA:O	2:BQ:27:LYS:HG2	2.12	0.49
3:CR:144:ARG:NH1	3:CR:150:GLU:OE1	2.32	0.49
4:ER:68:LEU:HG	4:FR:66:VAL:HG23	1.94	0.49
4:DS:71:THR:HG23	4:DS:73:MET:HB2	1.94	0.49
3:CT:48:ARG:HH22	4:FT:92:LEU:HD21	1.76	0.49
4:DT:64:LEU:HA	4:DT:101:ILE:HG22	1.94	0.49
4:EU:111:VAL:HG21	4:FU:68:LEU:HD11	1.93	0.49
1:AV:543:ASP:OD1	1:AV:545:ARG:NH1	2.45	0.49
3:CV:43:GLN:NE2	3:CV:197:ASP:OD1	2.45	0.49
3:CV:291:ARG:NH1	3:CV:318:GLU:OE1	2.40	0.49
4:DV:105:LEU:O	4:DV:131:ARG:NH1	2.44	0.49
1:AX:526:ARG:O	1:AX:530:GLU:HG2	2.12	0.49
4:EX:77:GLU:O	4:EX:81:LEU:HG	2.11	0.49
3:CY:72:LEU:O	3:CY:74:ARG:NH1	2.44	0.49
3:C1:48:ARG:HH22	4:F1:92:LEU:HD21	1.77	0.49
3:C2:48:ARG:HH22	4:F2:92:LEU:HD21	1.77	0.49
3:C2:246:TRP:CH2	4:F3:122:ILE:HD12	2.47	0.49
4:D3:73:MET:SD	4:D3:78:LEU:HB3	2.52	0.49
3:C4:249:ASN:CG	4:F5:125:ILE:HD13	2.33	0.49
1:A5:526:ARG:O	1:A5:530:GLU:HG2	2.11	0.49
2:B5:93:LEU:HD12	2:B6:35:GLN:OE1	2.13	0.49
3:C6:120:PRO:HA	3:C6:123:VAL:HG12	1.94	0.49
2:B7:155:HIS:O	2:B7:159:LEU:HG	2.11	0.49
3:CB:280:PRO:HA	4:DB:122:ILE:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:316:ALA:HA	2:BC:321:MET:HB3	1.94	0.49
4:FC:101:ILE:HG12	4:FC:106:ILE:HD11	1.93	0.49
2:BD:155:HIS:O	2:BD:159:LEU:HG	2.11	0.49
2:BD:161:ILE:HG22	2:BE:199:ALA:HB2	1.94	0.49
2:BE:155:HIS:O	2:BE:159:LEU:HG	2.11	0.49
1:AG:546:VAL:HG13	2:BG:66:PHE:HB3	1.94	0.49
3:CG:43:GLN:NE2	3:CG:197:ASP:OD1	2.45	0.49
3:CI:220:PRO:O	3:CI:223:MET:HB2	2.12	0.49
2:BJ:101:ARG:HH12	2:BK:42:ALA:CB	2.25	0.49
3:CK:125:ILE:HD12	3:CK:211:LEU:HB3	1.93	0.49
2:BL:155:HIS:O	2:BL:159:LEU:HG	2.12	0.49
1:AM:529:ALA:HA	1:AM:532:MET:HG2	1.93	0.49
1:AM:552:ARG:HD2	2:BN:45:ARG:HH12	1.77	0.49
3:CM:52:GLN:HE21	3:CM:234:PRO:HD3	1.76	0.49
3:CM:249:ASN:CG	4:FN:125:ILE:HD13	2.33	0.49
3:CN:72:LEU:O	3:CN:74:ARG:NH1	2.44	0.49
4:DO:73:MET:HG2	4:DO:77:GLU:OE1	2.12	0.49
4:DP:105:LEU:O	4:DP:131:ARG:NH1	2.44	0.49
3:CQ:125:ILE:HD12	3:CQ:211:LEU:HB3	1.94	0.49
2:BR:155:HIS:O	2:BR:159:LEU:HG	2.12	0.49
2:BU:23:ALA:O	2:BU:27:LYS:HG2	2.12	0.49
3:CW:43:GLN:NE2	3:CW:197:ASP:OD1	2.45	0.49
4:EW:111:VAL:HG21	4:FW:68:LEU:HD11	1.93	0.49
3:CY:64:GLN:HG2	3:CY:164:GLY:HA2	1.93	0.49
2:B1:52:LEU:HA	2:B1:55:VAL:HG22	1.93	0.49
3:C1:72:LEU:O	3:C1:74:ARG:NH1	2.44	0.49
3:C2:43:GLN:NE2	3:C2:197:ASP:OD1	2.46	0.49
3:C5:270:LEU:HB2	4:D5:64:LEU:HD23	1.93	0.49
3:C6:280:PRO:HA	4:D6:122:ILE:HG13	1.94	0.49
3:C7:270:LEU:HB2	4:D7:64:LEU:HD23	1.94	0.49
2:B9:316:ALA:HA	2:B9:321:MET:HB3	1.94	0.49
3:C9:43:GLN:NE2	3:C9:197:ASP:OD1	2.45	0.49
3:C9:112:GLY:HA3	3:C9:223:MET:SD	2.52	0.49
4:D9:105:LEU:O	4:D9:131:ARG:NH1	2.44	0.49
2:BA:155:HIS:O	2:BA:159:LEU:HG	2.11	0.49
3:CA:112:GLY:HA3	3:CA:223:MET:SD	2.51	0.49
1:AC:529:ALA:HA	1:AC:532:MET:HG2	1.93	0.49
3:CC:43:GLN:NE2	3:CC:197:ASP:OD1	2.46	0.49
2:BG:77:LEU:HD21	2:BH:38:SER:HB3	1.94	0.49
4:EG:117:LYS:HD3	4:EG:118:TYR:N	2.27	0.49
2:BH:141:GLN:O	2:BH:145:ILE:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:43:GLN:NE2	3:CH:197:ASP:OD1	2.45	0.49
3:CJ:258:GLU:HA	4:DJ:74:THR:HG22	1.95	0.49
4:EJ:76:LYS:NZ	4:FJ:58:MET:HB2	2.27	0.49
1:AL:533:SER:HA	1:AL:536:ILE:HG12	1.93	0.49
3:CL:272:LEU:HD23	4:DL:60:ILE:HB	1.94	0.49
1:AM:526:ARG:O	1:AM:530:GLU:HG2	2.11	0.49
2:BN:134:LEU:HD21	2:BN:146:LEU:HD12	1.93	0.49
3:CO:120:PRO:HA	3:CO:123:VAL:HG12	1.94	0.49
4:DO:105:LEU:O	4:DO:131:ARG:NH1	2.45	0.49
3:CP:102:LEU:HD22	3:CP:189:THR:HG21	1.93	0.49
3:CQ:112:GLY:HA3	3:CQ:223:MET:SD	2.52	0.49
3:CR:43:GLN:NE2	3:CR:197:ASP:OD1	2.45	0.49
1:AS:526:ARG:O	1:AS:530:GLU:HG2	2.12	0.49
3:CS:43:GLN:NE2	3:CS:197:ASP:OD1	2.45	0.49
3:CS:261:LEU:HD13	4:DS:73:MET:HE2	1.94	0.49
3:CS:270:LEU:HB2	4:DS:64:LEU:HD23	1.93	0.49
3:CT:240:ARG:NH2	3:CT:243:ASP:OD2	2.46	0.49
1:A1:552:ARG:HD2	2:B2:45:ARG:HH12	1.78	0.49
3:C1:270:LEU:HB2	4:D1:64:LEU:HD23	1.93	0.49
1:A3:526:ARG:O	1:A3:530:GLU:HG2	2.11	0.49
3:C5:280:PRO:HA	4:D5:122:ILE:HG13	1.94	0.49
3:C6:48:ARG:HH22	4:F6:92:LEU:HD21	1.77	0.49
1:A7:536:ILE:O	1:A7:539:MET:HG3	2.13	0.49
2:B7:49:ASN:O	2:B7:52:LEU:HG	2.11	0.49
3:C7:48:ARG:HH22	4:F7:92:LEU:HD21	1.77	0.49
2:B9:111:ASN:OD1	2:B9:137:LEU:HB3	2.13	0.49
2:BA:77:LEU:HD21	2:BB:38:SER:HB3	1.93	0.49
2:BC:23:ALA:O	2:BC:27:LYS:HG2	2.12	0.49
2:BD:203:ILE:HD12	2:BD:214:VAL:HG11	1.94	0.49
3:CD:280:PRO:HA	4:DD:122:ILE:HG13	1.94	0.49
2:BE:111:ASN:OD1	2:BE:137:LEU:HB3	2.12	0.49
3:CE:280:PRO:HA	4:DE:122:ILE:HG13	1.94	0.49
4:DE:71:THR:HG23	4:DE:73:MET:HB2	1.93	0.49
1:AF:546:VAL:HG13	2:BF:66:PHE:HB3	1.94	0.49
3:CF:280:PRO:HA	4:DF:122:ILE:HG13	1.94	0.49
3:CF:288:LYS:NZ	4:DF:116:ASP:O	2.42	0.49
2:BH:172:LEU:O	2:BH:176:THR:HG23	2.13	0.49
3:CI:125:ILE:HD12	3:CI:211:LEU:HB3	1.93	0.49
2:BJ:52:LEU:HA	2:BJ:55:VAL:HG22	1.93	0.49
2:BJ:141:GLN:O	2:BJ:145:ILE:HG12	2.11	0.49
3:CK:43:GLN:NE2	3:CK:197:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:107:ILE:HD11	2:BL:136:HIS:NE2	2.27	0.49
3:CL:125:ILE:HD12	3:CL:211:LEU:HB3	1.93	0.49
3:CO:72:LEU:O	3:CO:74:ARG:NH1	2.44	0.49
3:CO:101:ASN:ND2	3:CO:103:ASN:HD21	2.10	0.49
4:DO:135:LEU:HD22	4:EP:132:MET:HB3	1.94	0.49
3:CP:280:PRO:HA	4:DP:122:ILE:HG13	1.94	0.49
4:EP:111:VAL:HG21	4:FP:68:LEU:HD11	1.93	0.49
2:BQ:160:ARG:HG2	3:CQ:137:PHE:CE2	2.47	0.49
4:EQ:128:PRO:HA	4:EQ:131:ARG:HG3	1.93	0.49
4:FX:109:GLY:HA3	4:FX:122:ILE:HA	1.94	0.49
2:BY:23:ALA:O	2:BY:27:LYS:HG2	2.12	0.49
4:DY:71:THR:HG23	4:DY:73:MET:HB2	1.94	0.49
3:C4:43:GLN:NE2	3:C4:197:ASP:OD1	2.46	0.49
3:C4:48:ARG:HH22	4:F4:92:LEU:HD21	1.77	0.49
3:C4:280:PRO:HA	4:D4:122:ILE:HG13	1.94	0.49
4:F4:96:PRO:HB2	4:F4:108:GLN:HB3	1.95	0.49
2:B5:141:GLN:O	2:B5:145:ILE:HG12	2.11	0.49
2:B5:194:GLY:O	2:B5:198:THR:OG1	2.26	0.49
2:B6:139:ARG:NH1	2:B7:201:GLU:OE1	2.37	0.49
2:B6:316:ALA:HA	2:B6:321:MET:HB3	1.94	0.49
4:F6:96:PRO:HB2	4:F6:108:GLN:HB3	1.95	0.49
3:C7:242:GLU:HG3	4:E8:82:THR:HB	1.95	0.49
4:D8:105:LEU:O	4:D8:131:ARG:NH1	2.44	0.49
4:FA:105:LEU:HD21	4:FA:126:ILE:HG21	1.94	0.49
1:AB:546:VAL:HG13	2:BB:66:PHE:HB3	1.93	0.49
2:BD:23:ALA:O	2:BD:27:LYS:HG2	2.12	0.49
3:CD:288:LYS:HZ3	4:DD:118:TYR:H	1.60	0.49
3:CE:120:PRO:HA	3:CE:123:VAL:HG12	1.95	0.49
2:BF:101:ARG:HH12	2:BG:42:ALA:CB	2.26	0.49
4:EH:117:LYS:HZ2	4:FH:92:LEU:HA	1.77	0.49
1:AI:546:VAL:HG13	2:BI:66:PHE:HB3	1.94	0.49
3:CI:43:GLN:NE2	3:CI:197:ASP:OD1	2.45	0.49
3:CI:275:ILE:HD11	4:DI:64:LEU:HD21	1.93	0.49
4:FI:101:ILE:HG12	4:FI:106:ILE:HD11	1.95	0.49
3:CJ:43:GLN:NE2	3:CJ:197:ASP:OD1	2.45	0.49
3:CJ:48:ARG:HH22	4:FJ:92:LEU:HD21	1.77	0.49
3:CL:43:GLN:NE2	3:CL:197:ASP:OD1	2.45	0.49
3:CL:270:LEU:HB2	4:DL:64:LEU:HD23	1.93	0.49
4:EL:61:PRO:HB2	4:FL:72:ARG:HH22	1.77	0.49
3:CM:112:GLY:HA3	3:CM:223:MET:SD	2.52	0.49
3:CM:125:ILE:HD12	3:CM:211:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CM:302:LEU:HB3	3:CM:320:LEU:HG	1.94	0.49
3:CN:120:PRO:HA	3:CN:123:VAL:HG12	1.94	0.49
4:EO:126:ILE:HG13	4:EO:127:THR:H	1.77	0.49
1:AP:532:MET:O	1:AP:535:ARG:HG3	2.13	0.49
4:FP:60:ILE:O	4:FP:60:ILE:HG13	2.12	0.49
1:AQ:546:VAL:HG13	2:BQ:66:PHE:HB3	1.94	0.49
2:BQ:218:VAL:HG13	2:BQ:226:ALA:HB2	1.95	0.49
3:CQ:101:ASN:ND2	3:CQ:103:ASN:HD21	2.11	0.49
3:CQ:102:LEU:HD22	3:CQ:189:THR:HG21	1.93	0.49
2:BR:23:ALA:O	2:BR:27:LYS:HG2	2.12	0.49
4:ES:111:VAL:HG21	4:FS:68:LEU:HD11	1.93	0.49
1:AT:546:VAL:HG13	2:BT:66:PHE:HB3	1.94	0.49
4:DT:105:LEU:O	4:DT:131:ARG:NH1	2.44	0.49
3:CV:275:ILE:HD11	4:DV:64:LEU:HD21	1.94	0.49
2:BW:172:LEU:O	2:BW:176:THR:HG23	2.13	0.49
4:DW:64:LEU:HA	4:DW:101:ILE:HG22	1.95	0.49
3:CY:48:ARG:HH22	4:FY:92:LEU:HD21	1.77	0.49
3:C1:220:PRO:O	3:C1:223:MET:HB2	2.12	0.49
2:B2:52:LEU:HA	2:B2:55:VAL:HG22	1.93	0.49
2:B2:132:THR:O	2:B3:193:MET:HE1	2.12	0.49
3:C3:144:ARG:NH1	3:C3:150:GLU:OE1	2.34	0.49
3:C3:280:PRO:HA	4:D3:122:ILE:HG13	1.94	0.49
3:C4:275:ILE:HD11	4:D4:64:LEU:HD21	1.94	0.49
2:B5:23:ALA:O	2:B5:27:LYS:HG2	2.12	0.49
3:C5:43:GLN:NE2	3:C5:197:ASP:OD1	2.45	0.49
2:B6:77:LEU:HD21	2:B7:38:SER:HB3	1.93	0.49
3:C6:43:GLN:NE2	3:C6:197:ASP:OD1	2.45	0.49
2:B7:12:ILE:HD13	2:B7:55:VAL:HG21	1.94	0.49
3:C7:43:GLN:NE2	3:C7:197:ASP:OD1	2.45	0.49
3:C8:43:GLN:NE2	3:C8:197:ASP:OD1	2.45	0.49
1:A9:546:VAL:HG13	2:B9:66:PHE:HB3	1.94	0.49
2:B9:23:ALA:O	2:B9:27:LYS:HG2	2.12	0.49
3:C9:48:ARG:HH22	4:F9:92:LEU:HD21	1.76	0.49
3:C9:101:ASN:ND2	3:C9:103:ASN:HD21	2.11	0.49
1:AC:526:ARG:O	1:AC:530:GLU:HG2	2.12	0.49
2:BC:139:ARG:NH1	2:BD:201:GLU:OE1	2.38	0.49
3:CD:253:GLN:NE2	4:FE:105:LEU:O	2.45	0.49
2:BF:41:MET:O	2:BF:44:VAL:HG12	2.13	0.49
2:BG:139:ARG:NH1	2:BH:201:GLU:OE1	2.39	0.49
3:CG:125:ILE:HD12	3:CG:211:LEU:HB3	1.93	0.49
1:AI:552:ARG:HD2	2:BJ:45:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:132:THR:HA	2:BJ:193:MET:CE	2.42	0.49
3:CJ:270:LEU:HB2	4:DJ:64:LEU:HD23	1.94	0.49
3:CK:72:LEU:O	3:CK:74:ARG:NH1	2.44	0.49
3:CK:270:LEU:HB2	4:DK:64:LEU:HD23	1.94	0.49
3:CK:280:PRO:HA	4:DK:122:ILE:HG13	1.94	0.49
4:DK:134:ARG:O	4:DK:137:ARG:HG3	2.12	0.49
1:AL:521:ARG:HA	1:AL:524:ASN:HD21	1.77	0.49
4:FL:105:LEU:HD21	4:FL:126:ILE:HG21	1.93	0.49
2:BM:172:LEU:O	2:BM:176:THR:HG23	2.13	0.49
3:CM:288:LYS:NZ	4:DM:116:ASP:O	2.41	0.49
3:CN:64:GLN:HG2	3:CN:164:GLY:HA2	1.94	0.49
3:CN:280:PRO:HA	4:DN:122:ILE:HG13	1.94	0.49
3:CO:43:GLN:NE2	3:CO:197:ASP:OD1	2.45	0.49
1:AP:543:ASP:OD1	1:AP:545:ARG:NH1	2.44	0.49
2:BP:127:PRO:HB2	2:BP:160:ARG:CZ	2.43	0.49
2:BP:172:LEU:O	2:BP:176:THR:HG23	2.13	0.49
3:CP:120:PRO:HA	3:CP:123:VAL:HG12	1.94	0.49
4:ER:117:LYS:HZ2	4:FR:92:LEU:HA	1.77	0.49
3:CS:280:PRO:HA	4:DS:122:ILE:HG13	1.94	0.49
3:CU:280:PRO:HA	4:DU:122:ILE:HG13	1.94	0.49
2:BX:101:ARG:HH12	2:BY:42:ALA:CB	2.25	0.49
4:D3:64:LEU:HA	4:D3:101:ILE:HG22	1.94	0.49
4:D4:64:LEU:HA	4:D4:101:ILE:HG22	1.94	0.49
2:B5:131:ALA:HB1	2:B5:161:ILE:CD1	2.42	0.49
4:D5:101:ILE:HG13	4:E5:60:ILE:HD11	1.95	0.49
4:E6:77:GLU:O	4:E6:81:LEU:HG	2.12	0.49
1:A7:526:ARG:O	1:A7:530:GLU:HG2	2.13	0.49
2:B7:52:LEU:HA	2:B7:55:VAL:HG22	1.94	0.49
3:C7:96:LEU:HD23	3:C7:186:VAL:HB	1.95	0.49
4:D8:64:LEU:HA	4:D8:101:ILE:HG22	1.94	0.49
4:D8:108:GLN:N	4:D8:124:ASP:OD1	2.37	0.49
3:C9:240:ARG:NH2	3:C9:243:ASP:OD2	2.46	0.49
3:CA:261:LEU:HD22	4:DA:73:MET:HE2	1.94	0.49
2:BB:155:HIS:O	2:BB:159:LEU:HG	2.11	0.49
3:CB:48:ARG:HH22	4:FB:92:LEU:HD21	1.77	0.49
4:EC:126:ILE:HG13	4:EC:127:THR:H	1.77	0.49
2:BF:155:HIS:O	2:BF:159:LEU:HG	2.12	0.49
3:CF:250:LEU:HD22	4:EG:79:LEU:HA	1.94	0.49
3:CG:250:LEU:HD21	4:EH:79:LEU:HD13	1.95	0.49
3:CG:280:PRO:HA	4:DG:122:ILE:HG13	1.94	0.49
2:BH:77:LEU:HD22	2:BI:41:MET:SD	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EH:74:THR:HA	4:FH:61:PRO:HA	1.95	0.49
4:EI:68:LEU:HG	4:FI:66:VAL:HG23	1.95	0.49
4:EM:117:LYS:HZ2	4:FM:92:LEU:HA	1.78	0.49
2:BO:52:LEU:HA	2:BO:55:VAL:HG22	1.94	0.49
3:CO:63:ARG:NH2	3:CP:188:PHE:HA	2.28	0.49
1:AP:546:VAL:HG13	2:BP:66:PHE:HB3	1.93	0.49
2:BP:77:LEU:HD21	2:BQ:38:SER:HB3	1.95	0.49
2:BP:160:ARG:HG2	3:CP:137:PHE:CE2	2.47	0.49
3:CQ:144:ARG:NH1	3:CQ:150:GLU:OE1	2.33	0.49
3:CR:280:PRO:HA	4:DR:122:ILE:HG13	1.94	0.49
2:BT:238:ASN:O	2:BT:242:VAL:HG23	2.13	0.49
1:AV:546:VAL:HG13	2:BV:66:PHE:HB3	1.94	0.49
2:BV:23:ALA:O	2:BV:27:LYS:HG2	2.12	0.49
2:BV:52:LEU:HA	2:BV:55:VAL:HG22	1.94	0.49
3:CX:120:PRO:HA	3:CX:123:VAL:HG12	1.94	0.49
3:CY:261:LEU:HD13	4:DY:73:MET:HE2	1.94	0.49
1:A1:546:VAL:HG13	2:B1:66:PHE:HB3	1.95	0.49
2:B1:101:ARG:HH12	2:B2:42:ALA:CB	2.26	0.49
2:B3:132:THR:O	2:B4:193:MET:HE1	2.12	0.49
3:C3:242:GLU:HB2	3:C3:246:TRP:CD1	2.46	0.49
2:B4:316:ALA:HA	2:B4:321:MET:HB3	1.94	0.49
4:F4:101:ILE:HG12	4:F4:106:ILE:HD11	1.95	0.49
2:B6:155:HIS:O	2:B6:159:LEU:HG	2.11	0.49
3:C7:291:ARG:NH1	3:C7:318:GLU:OE1	2.40	0.49
4:F8:60:ILE:O	4:F8:60:ILE:HG13	2.12	0.49
2:B9:77:LEU:HD21	2:BA:38:SER:HB3	1.93	0.49
2:B9:151:GLU:CD	2:B9:154:ARG:HH12	2.16	0.49
2:B9:238:ASN:O	2:B9:242:VAL:HG23	2.13	0.49
3:CA:258:GLU:OE1	4:DA:73:MET:N	2.46	0.49
1:AC:543:ASP:OD1	1:AC:545:ARG:NH1	2.45	0.49
2:BC:155:HIS:O	2:BC:159:LEU:HG	2.11	0.49
2:BC:327:GLU:OE1	2:BC:330:TYR:OH	2.25	0.49
3:CC:48:ARG:HH22	4:FC:92:LEU:HD21	1.77	0.49
1:AE:552:ARG:HD2	2:BF:45:ARG:HH12	1.77	0.49
2:BE:128:GLN:NE2	3:CE:132:GLY:O	2.46	0.49
3:CG:63:ARG:HH22	3:CH:188:PHE:HB3	1.78	0.49
3:CG:253:GLN:NE2	4:FH:106:ILE:HD13	2.27	0.49
4:FG:97:LEU:HB2	4:FG:109:GLY:O	2.13	0.49
2:BH:139:ARG:NH1	2:BI:201:GLU:OE1	2.39	0.49
3:CH:249:ASN:CG	4:FI:125:ILE:HD13	2.32	0.49
1:AJ:543:ASP:OD1	1:AJ:545:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:72:LEU:O	3:CJ:74:ARG:NH1	2.44	0.49
3:CJ:240:ARG:NH2	3:CJ:243:ASP:OD2	2.45	0.49
2:BK:161:ILE:HG22	2:BL:199:ALA:HB2	1.95	0.49
3:CM:280:PRO:HA	4:DM:122:ILE:HG13	1.94	0.49
1:AN:533:SER:HA	1:AN:536:ILE:HG12	1.94	0.49
3:CO:275:ILE:HD11	4:DO:64:LEU:HD21	1.94	0.49
4:DR:73:MET:SD	4:DR:78:LEU:HD23	2.53	0.49
3:CS:48:ARG:HH22	4:FS:92:LEU:HD21	1.77	0.49
2:BT:127:PRO:HB2	2:BT:160:ARG:CZ	2.43	0.49
1:AV:526:ARG:O	1:AV:530:GLU:HG2	2.13	0.49
3:CV:48:ARG:HH22	4:FV:92:LEU:HD21	1.77	0.49
3:CV:280:PRO:HA	4:DV:122:ILE:HG13	1.94	0.49
1:AW:543:ASP:OD1	1:AW:545:ARG:NH1	2.45	0.49
1:AW:552:ARG:HD2	2:BX:45:ARG:HH12	1.78	0.49
3:CW:48:ARG:HH22	4:FW:92:LEU:HD21	1.77	0.49
3:CW:292:ILE:HD11	3:CW:315:LEU:HD22	1.95	0.49
1:AY:543:ASP:OD1	1:AY:545:ARG:NH1	2.46	0.49
4:FY:60:ILE:O	4:FY:60:ILE:HG13	2.13	0.49
2:B2:155:HIS:O	2:B2:159:LEU:HG	2.12	0.49
3:C2:63:ARG:HH22	3:C3:188:PHE:CB	2.26	0.49
3:C2:275:ILE:HD11	4:D2:64:LEU:HD21	1.94	0.49
2:B3:101:ARG:HH12	2:B4:42:ALA:CB	2.25	0.49
4:E3:77:GLU:O	4:E3:81:LEU:HG	2.11	0.49
1:A4:546:VAL:HG13	2:B4:66:PHE:HB3	1.95	0.49
2:B5:111:ASN:OD1	2:B5:137:LEU:HB3	2.12	0.49
4:F5:96:PRO:HB2	4:F5:108:GLN:HB3	1.95	0.49
2:B7:158:MET:CE	2:B8:218:VAL:HB	2.43	0.49
1:A8:537:ARG:CA	2:B8:21:ARG:HH22	2.24	0.49
1:A8:546:VAL:HG13	2:B8:66:PHE:HB3	1.95	0.49
2:B8:111:ASN:OD1	2:B8:137:LEU:HB3	2.13	0.49
3:CA:291:ARG:NH1	3:CA:318:GLU:OE1	2.39	0.49
1:AB:535:ARG:NH2	2:BB:60:GLU:HB2	2.27	0.49
3:CE:125:ILE:HD12	3:CE:211:LEU:HB3	1.94	0.49
4:DF:101:ILE:HD11	4:EF:60:ILE:HG12	1.94	0.49
1:AG:526:ARG:O	1:AG:530:GLU:HG2	2.12	0.49
3:CH:48:ARG:HH22	4:FH:92:LEU:HD21	1.77	0.49
3:CH:125:ILE:HD12	3:CH:211:LEU:HB3	1.93	0.49
3:CH:280:PRO:HA	4:DH:122:ILE:HG13	1.94	0.49
1:AJ:546:VAL:HG13	2:BJ:66:PHE:HB3	1.93	0.49
3:CJ:125:ILE:HD12	3:CJ:211:LEU:HB3	1.93	0.49
2:BO:172:LEU:O	2:BO:176:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DP:73:MET:SD	4:DP:78:LEU:HB3	2.53	0.49
1:AQ:526:ARG:O	1:AQ:530:GLU:HG2	2.13	0.49
3:CQ:280:PRO:HA	4:DQ:122:ILE:HG13	1.94	0.49
4:EQ:75:ILE:HD13	4:FQ:60:ILE:HG22	1.95	0.49
4:DR:108:GLN:N	4:DR:124:ASP:OD1	2.38	0.49
1:AS:529:ALA:HA	1:AS:532:MET:HG2	1.95	0.49
3:CX:96:LEU:HD23	3:CX:186:VAL:HB	1.95	0.49
3:CX:144:ARG:NH1	3:CX:150:GLU:OE1	2.33	0.49
3:CX:292:ILE:HD11	3:CX:315:LEU:HD22	1.95	0.49
2:B1:201:GLU:OE1	2:BY:139:ARG:NH1	2.37	0.49
3:C1:292:ILE:HD11	3:C1:315:LEU:HD22	1.95	0.49
3:C2:250:LEU:HD22	4:E3:79:LEU:HA	1.93	0.49
1:A3:532:MET:HE1	2:B3:56:LEU:HB2	1.95	0.49
3:C3:96:LEU:HD23	3:C3:186:VAL:HB	1.95	0.49
2:B5:78:ARG:NH1	2:B5:87:GLU:OE2	2.45	0.49
1:A6:526:ARG:O	1:A6:530:GLU:HG2	2.13	0.49
3:C8:291:ARG:NH1	3:C8:318:GLU:OE1	2.40	0.49
2:B9:161:ILE:HG22	2:BA:199:ALA:HB2	1.93	0.49
1:AA:543:ASP:OD1	1:AA:545:ARG:NH1	2.46	0.49
2:BB:161:ILE:HG22	2:BC:199:ALA:HB2	1.95	0.49
3:CD:257:SER:HB3	4:FE:104:TYR:CD2	2.47	0.49
4:DE:108:GLN:N	4:DE:124:ASP:OD1	2.38	0.49
3:CF:125:ILE:HD12	3:CF:211:LEU:HB3	1.94	0.49
3:CF:270:LEU:HB2	4:DF:64:LEU:HD23	1.95	0.49
4:DF:108:GLN:N	4:DF:124:ASP:OD1	2.38	0.49
4:EG:114:VAL:O	4:EG:117:LYS:HB3	2.12	0.49
4:EG:117:LYS:HD3	4:EG:118:TYR:H	1.77	0.49
2:BH:128:GLN:NE2	3:CH:132:GLY:O	2.46	0.49
4:DI:134:ARG:HA	4:DI:137:ARG:HE	1.78	0.49
1:AL:526:ARG:O	1:AL:530:GLU:HG2	2.13	0.49
2:BL:172:LEU:O	2:BL:176:THR:HG23	2.13	0.49
4:DL:101:ILE:HD11	4:EL:60:ILE:HG12	1.95	0.49
4:FM:109:GLY:HA3	4:FM:122:ILE:HA	1.95	0.49
1:AO:526:ARG:O	1:AO:530:GLU:HG2	2.13	0.49
2:BP:41:MET:O	2:BP:44:VAL:HG12	2.13	0.49
2:BP:101:ARG:HH12	2:BQ:42:ALA:CB	2.26	0.49
3:CQ:275:ILE:HD11	4:DQ:64:LEU:HD21	1.95	0.49
4:EQ:72:ARG:HE	4:EQ:73:MET:N	2.09	0.49
4:DS:101:ILE:HD11	4:ES:60:ILE:HG12	1.94	0.49
2:BT:128:GLN:NE2	3:CT:132:GLY:O	2.46	0.49
3:CU:63:ARG:HH22	3:CV:188:PHE:CB	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BW:160:ARG:HG2	3:CW:137:PHE:CE2	2.48	0.49
3:CW:270:LEU:HB2	4:DW:64:LEU:HD23	1.94	0.49
2:BX:160:ARG:HG2	3:CX:137:PHE:CE2	2.48	0.49
3:CX:275:ILE:HD11	4:DX:64:LEU:HD21	1.94	0.49
4:EX:72:ARG:NH2	4:FX:62:VAL:O	2.46	0.49
2:B2:41:MET:O	2:B2:44:VAL:HG12	2.13	0.48
3:C2:280:PRO:HA	4:D2:122:ILE:HG13	1.94	0.48
3:C3:292:ILE:HD11	3:C3:315:LEU:HD22	1.95	0.48
4:D3:108:GLN:N	4:D3:124:ASP:OD1	2.37	0.48
2:B5:160:ARG:HG2	3:C5:137:PHE:CE2	2.48	0.48
3:C5:292:ILE:HD11	3:C5:315:LEU:HD22	1.95	0.48
3:C6:64:GLN:HG2	3:C6:164:GLY:HA2	1.94	0.48
3:C6:292:ILE:HD11	3:C6:315:LEU:HD22	1.95	0.48
3:C7:253:GLN:NE2	4:F8:106:ILE:HD13	2.24	0.48
4:F7:108:GLN:HG3	4:F7:126:ILE:HD11	1.94	0.48
3:CB:101:ASN:ND2	3:CB:103:ASN:HD21	2.11	0.48
3:CB:291:ARG:NH1	3:CB:318:GLU:OE1	2.40	0.48
4:DD:79:LEU:HG	4:FE:53:ASP:OD1	2.14	0.48
3:CF:101:ASN:ND2	3:CF:103:ASN:HD21	2.11	0.48
3:CI:63:ARG:HH22	3:CJ:188:PHE:CB	2.26	0.48
3:CI:280:PRO:HA	4:DI:122:ILE:HG13	1.94	0.48
2:BJ:203:ILE:HD12	2:BJ:214:VAL:HG11	1.95	0.48
4:DL:74:THR:N	4:DL:77:GLU:OE2	2.46	0.48
1:AM:521:ARG:HA	1:AM:524:ASN:HD21	1.78	0.48
2:BN:128:GLN:NE2	3:CN:132:GLY:O	2.46	0.48
3:CN:101:ASN:ND2	3:CN:103:ASN:HD21	2.11	0.48
1:AO:521:ARG:HA	1:AO:524:ASN:HD21	1.78	0.48
4:FP:66:VAL:HG12	4:FP:99:ILE:HG13	1.95	0.48
1:AQ:521:ARG:HA	1:AQ:524:ASN:HD21	1.78	0.48
2:BQ:127:PRO:HB2	2:BQ:160:ARG:NE	2.28	0.48
3:CR:135:GLY:HA3	3:CR:211:LEU:HD21	1.94	0.48
3:CT:296:VAL:HG21	4:FU:60:ILE:HD12	1.95	0.48
1:AU:526:ARG:O	1:AU:530:GLU:HG2	2.13	0.48
3:CU:292:ILE:HD11	3:CU:315:LEU:HD22	1.95	0.48
3:CV:292:ILE:HD11	3:CV:315:LEU:HD22	1.95	0.48
3:CX:101:ASN:ND2	3:CX:103:ASN:HD21	2.11	0.48
3:CX:280:PRO:HA	4:DX:122:ILE:HG13	1.94	0.48
4:EX:126:ILE:HG13	4:EX:127:THR:H	1.77	0.48
3:CY:96:LEU:HD23	3:CY:186:VAL:HB	1.95	0.48
2:B1:316:ALA:HA	2:B1:321:MET:HB3	1.95	0.48
2:B7:111:ASN:OD1	2:B7:137:LEU:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:128:GLN:NE2	3:C8:132:GLY:O	2.46	0.48
4:D9:73:MET:SD	4:D9:78:LEU:HB3	2.54	0.48
4:E9:126:ILE:HG13	4:E9:127:THR:H	1.78	0.48
4:DA:73:MET:SD	4:DA:78:LEU:HD23	2.53	0.48
3:CC:181:ARG:NE	3:CC:183:GLU:OE2	2.38	0.48
2:BD:172:LEU:O	2:BD:176:THR:HG23	2.13	0.48
1:AF:543:ASP:OD1	1:AF:545:ARG:NH1	2.45	0.48
2:BF:128:GLN:NE2	3:CF:132:GLY:O	2.47	0.48
4:EH:126:ILE:HG13	4:EH:127:THR:H	1.78	0.48
1:AN:543:ASP:OD1	1:AN:545:ARG:NH1	2.45	0.48
2:BN:23:ALA:O	2:BN:27:LYS:HG2	2.12	0.48
3:CN:107:LEU:HB2	3:CN:223:MET:HE1	1.95	0.48
3:CP:89:TYR:HD2	3:CP:195:PRO:HA	1.79	0.48
3:CP:292:ILE:HD11	3:CP:315:LEU:HD22	1.95	0.48
3:CP:294:ALA:HB3	3:CP:302:LEU:HG	1.95	0.48
2:BQ:316:ALA:HA	2:BQ:321:MET:HB3	1.95	0.48
1:AR:546:VAL:HG13	2:BR:66:PHE:HB3	1.94	0.48
3:CS:120:PRO:HA	3:CS:123:VAL:HG12	1.94	0.48
3:CS:292:ILE:HD11	3:CS:315:LEU:HD22	1.95	0.48
4:ET:105:LEU:O	4:ET:131:ARG:NH2	2.39	0.48
4:ET:126:ILE:HG13	4:ET:127:THR:H	1.77	0.48
1:AU:546:VAL:HG13	2:BU:66:PHE:HB3	1.95	0.48
3:CV:120:PRO:HA	3:CV:123:VAL:HG12	1.95	0.48
4:EW:126:ILE:HG13	4:EW:127:THR:H	1.78	0.48
2:BY:52:LEU:HA	2:BY:55:VAL:HG22	1.95	0.48
3:CY:135:GLY:HA3	3:CY:211:LEU:HD21	1.95	0.48
2:B1:23:ALA:O	2:B1:27:LYS:HG2	2.12	0.48
2:B1:155:HIS:O	2:B1:159:LEU:HG	2.13	0.48
3:C1:280:PRO:HA	4:D1:122:ILE:HG13	1.94	0.48
4:F1:60:ILE:HG13	4:F1:60:ILE:O	2.13	0.48
1:A2:526:ARG:O	1:A2:530:GLU:HG2	2.13	0.48
3:C2:258:GLU:OE2	4:D2:72:ARG:NH1	2.45	0.48
2:B4:160:ARG:HG2	3:C4:137:PHE:CE2	2.48	0.48
2:B5:158:MET:HE3	2:B6:218:VAL:HB	1.95	0.48
1:A7:552:ARG:HD2	2:B8:45:ARG:HH12	1.78	0.48
2:B7:131:ALA:HB1	2:B7:161:ILE:CD1	2.43	0.48
4:E7:126:ILE:HG13	4:E7:127:THR:H	1.77	0.48
1:A8:526:ARG:O	1:A8:530:GLU:HG2	2.13	0.48
4:F9:64:LEU:HA	4:F9:101:ILE:HA	1.95	0.48
3:CA:270:LEU:HB2	4:DA:64:LEU:HD23	1.95	0.48
4:DA:79:LEU:HG	4:FB:53:ASP:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:126:ILE:HG13	4:EA:127:THR:H	1.78	0.48
2:BD:128:GLN:NE2	3:CD:132:GLY:O	2.46	0.48
2:BD:160:ARG:HG2	3:CD:137:PHE:CE2	2.49	0.48
1:AE:532:MET:O	1:AE:535:ARG:HG3	2.13	0.48
1:AE:535:ARG:NH2	2:BE:60:GLU:HB2	2.28	0.48
2:BF:139:ARG:NH1	2:BG:201:GLU:OE1	2.39	0.48
1:AG:529:ALA:HA	1:AG:532:MET:HG2	1.94	0.48
2:BG:128:GLN:NE2	3:CG:132:GLY:O	2.47	0.48
2:BG:131:ALA:HB1	2:BG:161:ILE:CD1	2.43	0.48
3:CG:258:GLU:OE1	4:DG:73:MET:N	2.46	0.48
3:CG:288:LYS:NZ	4:DG:116:ASP:O	2.44	0.48
1:AI:535:ARG:NH2	2:BI:60:GLU:HB2	2.28	0.48
1:AI:543:ASP:OD1	1:AI:545:ARG:NH1	2.45	0.48
4:EJ:126:ILE:HG13	4:EJ:127:THR:H	1.78	0.48
2:BK:203:ILE:HD12	2:BK:214:VAL:HG11	1.95	0.48
2:BK:316:ALA:HA	2:BK:321:MET:HB3	1.95	0.48
1:AL:522:ARG:HB2	1:AL:526:ARG:HH21	1.78	0.48
1:AL:536:ILE:O	1:AL:539:MET:HG3	2.13	0.48
4:EL:126:ILE:HG13	4:EL:127:THR:H	1.79	0.48
3:CM:63:ARG:HH22	3:CN:188:PHE:CB	2.26	0.48
4:EM:76:LYS:NZ	4:FM:58:MET:HB2	2.28	0.48
1:AN:526:ARG:O	1:AN:530:GLU:HG2	2.13	0.48
2:BN:49:ASN:O	2:BN:52:LEU:HG	2.14	0.48
1:AP:521:ARG:HA	1:AP:524:ASN:HD21	1.79	0.48
2:BP:158:MET:HE1	2:BQ:217:ALA:HB3	1.95	0.48
3:CP:96:LEU:HD23	3:CP:186:VAL:HB	1.95	0.48
3:CP:249:ASN:CG	4:FQ:125:ILE:HD13	2.33	0.48
2:BR:131:ALA:HB1	2:BR:161:ILE:HD11	1.95	0.48
3:CR:292:ILE:HD11	3:CR:315:LEU:HD22	1.95	0.48
2:BT:131:ALA:HB1	2:BT:161:ILE:CD1	2.42	0.48
2:BV:172:LEU:O	2:BV:176:THR:HG23	2.14	0.48
3:CV:255:GLN:OE1	3:CV:256:HIS:ND1	2.43	0.48
1:AW:521:ARG:HA	1:AW:524:ASN:HD21	1.79	0.48
2:BW:255:ASP:OD2	2:BW:257:GLU:HG2	2.14	0.48
3:CW:96:LEU:HD23	3:CW:186:VAL:HB	1.95	0.48
3:CW:250:LEU:HD22	4:EX:79:LEU:HA	1.94	0.48
2:BX:127:PRO:HB2	2:BX:160:ARG:CZ	2.44	0.48
4:DY:134:ARG:O	4:DY:137:ARG:HG3	2.12	0.48
2:B1:45:ARG:HH12	1:AY:552:ARG:HD2	1.78	0.48
2:B1:77:LEU:HD21	2:B2:38:SER:HB3	1.94	0.48
3:C1:89:TYR:HD2	3:C1:195:PRO:HA	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:255:ASP:OD2	2:B2:257:GLU:HG2	2.14	0.48
1:A3:546:VAL:HG13	2:B3:66:PHE:HB3	1.96	0.48
3:C4:181:ARG:NE	3:C4:183:GLU:OE2	2.37	0.48
3:C5:96:LEU:HD23	3:C5:186:VAL:HB	1.95	0.48
4:E5:61:PRO:HB3	4:F5:72:ARG:HD2	1.95	0.48
3:C6:63:ARG:NH2	3:C7:188:PHE:HA	2.28	0.48
2:B7:128:GLN:NE2	3:C7:132:GLY:O	2.47	0.48
1:A8:543:ASP:OD1	1:A8:545:ARG:NH1	2.45	0.48
2:B8:47:ILE:H	2:B8:47:ILE:HD12	1.78	0.48
3:C8:292:ILE:HD11	3:C8:315:LEU:HD22	1.95	0.48
2:B9:160:ARG:HG2	3:C9:137:PHE:CE2	2.49	0.48
3:CA:89:TYR:HD2	3:CA:195:PRO:HA	1.78	0.48
1:AB:521:ARG:HA	1:AB:524:ASN:HD21	1.78	0.48
1:AB:532:MET:O	1:AB:535:ARG:HG3	2.13	0.48
2:BB:52:LEU:HA	2:BB:55:VAL:HG22	1.96	0.48
1:AD:546:VAL:HG13	2:BD:66:PHE:HB3	1.94	0.48
2:BD:139:ARG:NH1	2:BE:201:GLU:OE1	2.39	0.48
4:ED:126:ILE:HG13	4:ED:127:THR:H	1.78	0.48
1:AE:546:VAL:HG13	2:BE:66:PHE:HB3	1.94	0.48
3:CE:48:ARG:HH22	4:FE:92:LEU:HD21	1.77	0.48
2:BG:111:ASN:OD1	2:BG:137:LEU:HB3	2.12	0.48
4:EG:126:ILE:HG13	4:EG:127:THR:H	1.79	0.48
2:BH:203:ILE:HD12	2:BH:214:VAL:HG11	1.95	0.48
2:BI:327:GLU:OE1	2:BI:330:TYR:OH	2.25	0.48
2:BL:139:ARG:NH1	2:BM:201:GLU:OE1	2.39	0.48
4:EM:126:ILE:HG13	4:EM:127:THR:H	1.79	0.48
1:AN:552:ARG:HD2	2:BO:45:ARG:HH12	1.79	0.48
2:BN:101:ARG:HH12	2:BO:42:ALA:CB	2.27	0.48
3:CN:292:ILE:HD11	3:CN:315:LEU:HD22	1.95	0.48
2:BO:128:GLN:NE2	3:CO:132:GLY:O	2.47	0.48
3:CO:270:LEU:HB2	4:DO:64:LEU:HD23	1.94	0.48
3:CO:280:PRO:HA	4:DO:122:ILE:HG13	1.94	0.48
2:BP:139:ARG:NH1	2:BQ:201:GLU:OE1	2.38	0.48
2:BQ:41:MET:O	2:BQ:44:VAL:HG12	2.13	0.48
2:BQ:52:LEU:HA	2:BQ:55:VAL:HG22	1.96	0.48
4:EQ:126:ILE:HG13	4:EQ:127:THR:H	1.78	0.48
1:AS:543:ASP:OD1	1:AS:545:ARG:NH1	2.45	0.48
4:ES:76:LYS:NZ	4:FS:58:MET:HB2	2.28	0.48
1:AT:521:ARG:HA	1:AT:524:ASN:HD21	1.79	0.48
2:BT:316:ALA:HA	2:BT:321:MET:HB3	1.94	0.48
2:BU:41:MET:O	2:BU:44:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CU:249:ASN:CG	4:FV:125:ILE:HD13	2.33	0.48
2:BV:77:LEU:HD21	2:BW:38:SER:HB3	1.95	0.48
2:BV:160:ARG:HG2	3:CV:137:PHE:CE2	2.49	0.48
4:EV:74:THR:OG1	4:EV:75:ILE:N	2.46	0.48
3:CW:120:PRO:HA	3:CW:123:VAL:HG12	1.95	0.48
1:AX:521:ARG:HA	1:AX:524:ASN:HD21	1.79	0.48
2:BX:255:ASP:OD2	2:BX:257:GLU:HG2	2.14	0.48
1:AY:526:ARG:O	1:AY:530:GLU:HG2	2.13	0.48
1:AY:546:VAL:HG13	2:BY:66:PHE:HB3	1.95	0.48
3:CY:292:ILE:HD11	3:CY:315:LEU:HD22	1.95	0.48
2:B1:255:ASP:OD2	2:B1:257:GLU:HG2	2.14	0.48
3:C4:222:SER:HA	3:C4:225:GLU:HG2	1.96	0.48
4:E4:76:LYS:NZ	4:F4:58:MET:HB2	2.29	0.48
2:B5:127:PRO:HB2	2:B5:160:ARG:CZ	2.44	0.48
3:C5:253:GLN:NE2	4:F6:106:ILE:HD13	2.29	0.48
1:A6:521:ARG:HA	1:A6:524:ASN:HD21	1.79	0.48
1:A7:521:ARG:HA	1:A7:524:ASN:HD21	1.79	0.48
3:C7:275:ILE:HD11	4:D7:64:LEU:HD21	1.94	0.48
2:B8:131:ALA:HB1	2:B8:161:ILE:CD1	2.43	0.48
3:C8:253:GLN:HG3	4:F9:131:ARG:HH22	1.78	0.48
1:A9:543:ASP:OD1	1:A9:545:ARG:NH1	2.46	0.48
1:AA:537:ARG:CA	2:BA:21:ARG:HH22	2.24	0.48
2:BA:158:MET:CE	2:BB:218:VAL:HB	2.43	0.48
3:CC:220:PRO:O	3:CC:223:MET:HB2	2.12	0.48
2:BD:49:ASN:O	2:BD:52:LEU:HG	2.14	0.48
3:CE:63:ARG:HH22	3:CF:188:PHE:CB	2.26	0.48
3:CG:258:GLU:OE2	4:DG:72:ARG:NH1	2.46	0.48
2:BH:158:MET:CE	2:BI:218:VAL:HB	2.43	0.48
1:AI:521:ARG:HA	1:AI:524:ASN:HD21	1.79	0.48
2:BI:128:GLN:NE2	3:CI:132:GLY:O	2.46	0.48
4:EI:72:ARG:NH2	4:FI:62:VAL:O	2.47	0.48
2:BJ:135:VAL:HB	2:BK:193:MET:CE	2.43	0.48
2:BK:41:MET:O	2:BK:44:VAL:HG12	2.13	0.48
2:BM:316:ALA:HA	2:BM:321:MET:HB3	1.96	0.48
2:BN:139:ARG:NH1	2:BO:201:GLU:OE1	2.39	0.48
1:AO:546:VAL:HG13	2:BO:66:PHE:HB3	1.95	0.48
4:DO:108:GLN:N	4:DO:124:ASP:OD1	2.37	0.48
2:BQ:49:ASN:O	2:BQ:52:LEU:HG	2.14	0.48
4:ER:126:ILE:HG13	4:ER:127:THR:H	1.79	0.48
2:BS:128:GLN:NE2	3:CS:132:GLY:O	2.46	0.48
2:BS:316:ALA:HA	2:BS:321:MET:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FS:60:ILE:O	4:FS:60:ILE:HG13	2.14	0.48
3:CT:275:ILE:HD11	4:DT:64:LEU:HD21	1.94	0.48
3:CU:275:ILE:HD11	4:DU:64:LEU:HD21	1.95	0.48
3:CV:242:GLU:HB3	4:EW:83:GLN:HE22	1.78	0.48
4:FW:54:ILE:HG13	4:FW:55:ASP:H	1.77	0.48
1:A2:521:ARG:HA	1:A2:524:ASN:HD21	1.79	0.48
1:A3:521:ARG:HA	1:A3:524:ASN:HD21	1.79	0.48
2:B3:134:LEU:HD21	2:B3:146:LEU:HD12	1.96	0.48
4:F5:105:LEU:HD21	4:F5:126:ILE:HG21	1.96	0.48
1:A6:546:VAL:HG13	2:B6:66:PHE:HB3	1.96	0.48
1:A9:553:GLN:NE2	1:A9:557:ASN:OD1	2.47	0.48
2:B9:52:LEU:HA	2:B9:55:VAL:HG22	1.96	0.48
3:C9:89:TYR:HD2	3:C9:195:PRO:HA	1.79	0.48
3:C9:288:LYS:NZ	4:D9:116:ASP:O	2.43	0.48
4:D9:110:GLU:OE1	4:D9:110:GLU:N	2.47	0.48
2:BB:111:ASN:OD1	2:BB:137:LEU:HB3	2.12	0.48
2:BC:41:MET:O	2:BC:44:VAL:HG12	2.14	0.48
2:BC:128:GLN:NE2	3:CC:132:GLY:O	2.46	0.48
2:BC:161:ILE:HG22	2:BD:199:ALA:HB2	1.95	0.48
3:CD:89:TYR:HD2	3:CD:195:PRO:HA	1.79	0.48
3:CD:254:VAL:HG13	4:FE:101:ILE:HD11	1.96	0.48
3:CD:291:ARG:NH1	3:CD:318:GLU:OE1	2.40	0.48
1:AE:536:ILE:O	1:AE:539:MET:HG3	2.13	0.48
2:BE:131:ALA:HB1	2:BE:161:ILE:CD1	2.43	0.48
3:CE:291:ARG:NH1	3:CE:318:GLU:OE1	2.40	0.48
4:EG:101:ILE:HG22	4:EG:102:ASN:OD1	2.14	0.48
1:AH:543:ASP:OD1	1:AH:545:ARG:NH1	2.46	0.48
3:CH:89:TYR:HD2	3:CH:195:PRO:HA	1.78	0.48
4:DI:79:LEU:HG	4:FJ:53:ASP:OD1	2.14	0.48
4:DI:108:GLN:N	4:DI:124:ASP:OD1	2.37	0.48
3:CJ:280:PRO:HA	4:DJ:122:ILE:HG13	1.94	0.48
4:DJ:79:LEU:HG	4:FK:53:ASP:OD1	2.14	0.48
4:DJ:133:ARG:HH12	4:DJ:137:ARG:HD3	1.78	0.48
3:CK:89:TYR:HD2	3:CK:195:PRO:HA	1.79	0.48
4:DM:73:MET:SD	4:DM:78:LEU:HB3	2.53	0.48
2:BN:210:GLN:O	2:BN:214:VAL:HG23	2.14	0.48
2:BN:255:ASP:OD2	2:BN:257:GLU:HG2	2.14	0.48
3:CN:89:TYR:HD2	3:CN:195:PRO:HA	1.79	0.48
1:AO:536:ILE:O	1:AO:539:MET:HG3	2.13	0.48
2:BO:41:MET:O	2:BO:44:VAL:HG12	2.13	0.48
4:FO:96:PRO:HB2	4:FO:108:GLN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:101:ASN:ND2	3:CP:103:ASN:HD21	2.12	0.48
2:BR:52:LEU:HA	2:BR:55:VAL:HG22	1.96	0.48
3:CR:89:TYR:HD2	3:CR:195:PRO:HA	1.79	0.48
3:CS:89:TYR:HD2	3:CS:195:PRO:HA	1.79	0.48
3:CU:89:TYR:HD2	3:CU:195:PRO:HA	1.79	0.48
3:CW:89:TYR:HD2	3:CW:195:PRO:HA	1.79	0.48
4:DX:110:GLU:OE1	4:DX:110:GLU:N	2.47	0.48
2:B1:41:MET:O	2:B1:44:VAL:HG12	2.13	0.48
3:C3:275:ILE:HD11	4:D3:64:LEU:HD21	1.95	0.48
1:A4:543:ASP:OD1	1:A4:545:ARG:NH1	2.46	0.48
2:B4:255:ASP:OD2	2:B4:257:GLU:HG2	2.14	0.48
4:F5:109:GLY:HA3	4:F5:122:ILE:HA	1.96	0.48
3:C6:96:LEU:HD23	3:C6:186:VAL:HB	1.96	0.48
2:B8:160:ARG:HG2	3:C8:137:PHE:CE2	2.48	0.48
3:C8:96:LEU:HD23	3:C8:186:VAL:HB	1.96	0.48
2:B9:128:GLN:NE2	3:C9:132:GLY:O	2.46	0.48
2:BA:151:GLU:HA	2:BA:154:ARG:NH1	2.29	0.48
1:AB:526:ARG:O	1:AB:530:GLU:HG2	2.12	0.48
3:CB:296:VAL:HG13	3:CB:301:VAL:HG11	1.95	0.48
1:AD:543:ASP:OD1	1:AD:545:ARG:NH1	2.45	0.48
4:DE:110:GLU:OE1	4:DE:110:GLU:N	2.47	0.48
2:BF:194:GLY:O	2:BF:198:THR:OG1	2.26	0.48
4:EG:76:LYS:HE3	4:FG:58:MET:O	2.14	0.48
4:DH:79:LEU:HB2	4:FI:53:ASP:OD1	2.14	0.48
1:AM:546:VAL:HG13	2:BM:66:PHE:HB3	1.94	0.48
3:CM:89:TYR:HD2	3:CM:195:PRO:HA	1.79	0.48
2:BP:255:ASP:OD2	2:BP:257:GLU:HG2	2.14	0.48
2:BS:111:ASN:OD1	2:BS:137:LEU:HB3	2.13	0.48
2:BT:255:ASP:OD2	2:BT:257:GLU:HG2	2.14	0.48
1:AV:521:ARG:HA	1:AV:524:ASN:HD21	1.79	0.48
2:BW:127:PRO:HB2	2:BW:160:ARG:CZ	2.44	0.48
4:DW:110:GLU:N	4:DW:110:GLU:OE1	2.47	0.48
2:BY:255:ASP:OD2	2:BY:257:GLU:HG2	2.14	0.48
3:CY:101:ASN:ND2	3:CY:103:ASN:HD21	2.12	0.48
4:FY:101:ILE:HG12	4:FY:106:ILE:HD11	1.95	0.48
3:C1:258:GLU:OE2	4:D1:72:ARG:NH1	2.45	0.48
2:B2:172:LEU:O	2:B2:176:THR:HG23	2.14	0.48
2:B3:128:GLN:NE2	3:C3:132:GLY:O	2.46	0.48
1:A4:521:ARG:HA	1:A4:524:ASN:HD21	1.79	0.48
4:D4:110:GLU:OE1	4:D4:110:GLU:N	2.47	0.48
3:C6:89:TYR:HD2	3:C6:195:PRO:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:292:ILE:HD11	3:C7:315:LEU:HD22	1.95	0.48
1:A9:526:ARG:O	1:A9:530:GLU:HG2	2.13	0.48
2:B9:208:THR:O	2:B9:211:GLU:HG2	2.13	0.48
3:C9:291:ARG:NH1	3:C9:318:GLU:OE1	2.40	0.48
4:D9:125:ILE:HG22	4:D9:126:ILE:N	2.29	0.48
2:BA:52:LEU:HA	2:BA:55:VAL:HG22	1.96	0.48
4:DA:110:GLU:OE1	4:DA:110:GLU:N	2.47	0.48
2:BC:238:ASN:O	2:BC:242:VAL:HG23	2.13	0.48
4:EC:61:PRO:HB2	4:FC:72:ARG:NH2	2.29	0.48
4:EE:126:ILE:HG13	4:EE:127:THR:H	1.79	0.48
2:BH:49:ASN:O	2:BH:52:LEU:HG	2.14	0.48
4:FH:60:ILE:O	4:FH:60:ILE:HG13	2.14	0.48
1:AI:518:LEU:O	1:AI:522:ARG:HG3	2.14	0.48
2:BJ:151:GLU:HA	2:BJ:154:ARG:NH1	2.29	0.48
2:BK:127:PRO:HB2	2:BK:160:ARG:CZ	2.44	0.48
4:EK:117:LYS:HZ2	4:FK:92:LEU:HA	1.79	0.48
2:BL:128:GLN:NE2	3:CL:132:GLY:O	2.46	0.48
2:BL:255:ASP:OD2	2:BL:257:GLU:HG2	2.14	0.48
3:CL:280:PRO:HA	4:DL:122:ILE:HG13	1.94	0.48
1:AM:543:ASP:OD1	1:AM:545:ARG:NH1	2.45	0.48
2:BM:77:LEU:HD21	2:BN:38:SER:HB3	1.95	0.48
3:CM:292:ILE:HD11	3:CM:315:LEU:HD22	1.96	0.48
2:BN:172:LEU:O	2:BN:176:THR:HG23	2.13	0.48
4:EN:77:GLU:O	4:EN:81:LEU:HG	2.14	0.48
2:BP:161:ILE:HG22	2:BQ:199:ALA:HB2	1.95	0.48
1:AR:526:ARG:O	1:AR:530:GLU:HG2	2.13	0.48
2:BR:127:PRO:HA	2:BR:130:ILE:HD12	1.96	0.48
2:BR:255:ASP:OD2	2:BR:257:GLU:HG2	2.14	0.48
3:CR:270:LEU:HB2	4:DR:64:LEU:HD23	1.95	0.48
4:DR:79:LEU:HG	4:FS:53:ASP:OD1	2.14	0.48
2:BS:203:ILE:HA	2:BS:206:MET:HG2	1.96	0.48
2:BS:255:ASP:OD2	2:BS:257:GLU:HG2	2.14	0.48
4:DS:75:ILE:O	4:DS:78:LEU:HG	2.14	0.48
4:DS:110:GLU:OE1	4:DS:110:GLU:N	2.47	0.48
1:AU:521:ARG:HA	1:AU:524:ASN:HD21	1.79	0.48
2:BU:316:ALA:HA	2:BU:321:MET:HB3	1.96	0.48
2:BV:255:ASP:OD2	2:BV:257:GLU:HG2	2.14	0.48
3:CW:246:TRP:CD1	4:EX:82:THR:HA	2.49	0.48
3:CW:280:PRO:HA	4:DW:122:ILE:HG13	1.94	0.48
2:BX:172:LEU:O	2:BX:176:THR:HG23	2.13	0.48
2:BX:316:ALA:HA	2:BX:321:MET:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:89:TYR:HD2	3:CX:195:PRO:HA	1.79	0.48
4:DX:133:ARG:HH21	4:DX:134:ARG:HG2	1.79	0.48
4:EX:61:PRO:HB2	4:FX:72:ARG:NH2	2.27	0.48
4:FX:97:LEU:HB2	4:FX:109:GLY:O	2.14	0.48
3:CY:280:PRO:HA	4:DY:122:ILE:HG13	1.94	0.48
4:DY:101:ILE:HD11	4:EY:60:ILE:HG12	1.94	0.48
2:B2:316:ALA:HA	2:B2:321:MET:HB3	1.95	0.48
3:C2:96:LEU:HD23	3:C2:186:VAL:HB	1.96	0.48
3:C2:292:ILE:HD11	3:C2:315:LEU:HD22	1.96	0.48
2:B3:172:LEU:O	2:B3:176:THR:HG23	2.13	0.48
4:D3:110:GLU:OE1	4:D3:110:GLU:N	2.47	0.48
4:F4:64:LEU:HA	4:F4:101:ILE:HA	1.95	0.48
1:A5:535:ARG:HH22	2:B5:60:GLU:HB2	1.78	0.48
2:B5:128:GLN:NE2	3:C5:132:GLY:O	2.47	0.48
4:D5:110:GLU:N	4:D5:110:GLU:OE1	2.47	0.48
3:C8:63:ARG:HH22	3:C9:188:PHE:CB	2.26	0.48
3:C8:275:ILE:HD11	4:D8:64:LEU:HD21	1.96	0.48
1:AA:521:ARG:HA	1:AA:524:ASN:HD21	1.79	0.48
2:BA:49:ASN:O	2:BA:52:LEU:HG	2.14	0.48
2:BB:128:GLN:NE2	3:CB:132:GLY:O	2.47	0.48
4:EB:126:ILE:HG13	4:EB:127:THR:H	1.78	0.48
1:AD:526:ARG:O	1:AD:530:GLU:HG2	2.13	0.48
2:BD:107:ILE:HD11	2:BD:136:HIS:NE2	2.29	0.48
4:DF:110:GLU:N	4:DF:110:GLU:OE1	2.47	0.48
4:EH:128:PRO:HA	4:EH:131:ARG:HG3	1.94	0.48
4:FH:96:PRO:HB2	4:FH:108:GLN:HB3	1.96	0.48
2:BI:77:LEU:HD21	2:BJ:38:SER:HB3	1.96	0.48
4:FM:96:PRO:HB2	4:FM:108:GLN:HB3	1.95	0.48
2:BO:255:ASP:OD2	2:BO:257:GLU:HG2	2.14	0.48
2:BP:49:ASN:O	2:BP:52:LEU:HG	2.14	0.48
3:CP:275:ILE:HD11	4:DP:64:LEU:HD21	1.96	0.48
4:FP:54:ILE:HG13	4:FP:55:ASP:H	1.79	0.48
3:CQ:63:ARG:HH22	3:CR:188:PHE:CB	2.26	0.48
3:CQ:292:ILE:HD11	3:CQ:315:LEU:HD22	1.96	0.48
4:FQ:96:PRO:HB2	4:FQ:108:GLN:HB3	1.94	0.48
3:CR:181:ARG:NE	3:CR:183:GLU:OE2	2.38	0.48
4:DR:110:GLU:OE1	4:DR:110:GLU:N	2.47	0.48
2:BS:101:ARG:HH12	2:BT:42:ALA:CB	2.27	0.48
3:CS:294:ALA:HB3	3:CS:302:LEU:HG	1.96	0.48
4:ES:126:ILE:HG13	4:ES:127:THR:H	1.79	0.48
3:CT:63:ARG:HH22	3:CU:188:PHE:CB	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CT:144:ARG:NH1	3:CT:150:GLU:OE1	2.34	0.48
4:FT:63:LYS:O	4:FT:102:ASN:N	2.43	0.48
1:AW:546:VAL:HG13	2:BW:66:PHE:HB3	1.96	0.48
2:BW:128:GLN:NE2	3:CW:132:GLY:O	2.47	0.48
3:CW:101:ASN:ND2	3:CW:103:ASN:HD21	2.12	0.48
2:BX:77:LEU:HD21	2:BY:38:SER:HB3	1.94	0.48
2:BX:161:ILE:HG22	2:BY:199:ALA:HB2	1.95	0.48
4:D1:108:GLN:N	4:D1:124:ASP:OD1	2.37	0.48
2:B3:58:GLU:O	2:B3:61:GLN:HG2	2.14	0.48
2:B3:255:ASP:OD2	2:B3:257:GLU:HG2	2.14	0.48
3:C3:89:TYR:HD2	3:C3:195:PRO:HA	1.79	0.48
2:B4:158:MET:CE	2:B5:218:VAL:HB	2.44	0.48
3:C4:89:TYR:HD2	3:C4:195:PRO:HA	1.79	0.48
3:C4:288:LYS:NZ	4:D4:116:ASP:O	2.42	0.48
4:E4:126:ILE:HG13	4:E4:127:THR:H	1.79	0.48
4:E5:58:MET:HA	4:F5:76:LYS:NZ	2.29	0.48
4:E5:76:LYS:NZ	4:F5:58:MET:HB2	2.28	0.48
4:F5:101:ILE:HG12	4:F5:106:ILE:HD11	1.96	0.48
3:C7:89:TYR:HD2	3:C7:195:PRO:HA	1.79	0.48
3:C7:249:ASN:ND2	4:F8:125:ILE:HD13	2.28	0.48
4:D7:133:ARG:HH12	4:D7:137:ARG:HD3	1.79	0.48
4:F7:64:LEU:HA	4:F7:101:ILE:HA	1.95	0.48
2:B8:161:ILE:HG22	2:B9:199:ALA:HB2	1.95	0.48
3:C8:249:ASN:ND2	4:F9:125:ILE:HD13	2.29	0.48
3:C9:292:ILE:HD11	3:C9:315:LEU:HD22	1.96	0.48
2:BA:128:GLN:NE2	3:CA:132:GLY:O	2.47	0.48
4:DB:108:GLN:N	4:DB:124:ASP:OD1	2.37	0.48
4:DB:110:GLU:OE1	4:DB:110:GLU:N	2.47	0.48
2:BC:194:GLY:O	2:BC:198:THR:OG1	2.30	0.48
3:CD:260:GLU:OE2	4:DD:72:ARG:NH2	2.47	0.48
1:AF:526:ARG:O	1:AF:530:GLU:HG2	2.13	0.48
1:AF:536:ILE:O	1:AF:539:MET:HG3	2.14	0.48
2:BH:101:ARG:HH12	2:BI:42:ALA:CB	2.27	0.48
3:CH:275:ILE:HD11	4:DH:64:LEU:HD21	1.96	0.48
2:BJ:58:GLU:O	2:BJ:61:GLN:HG2	2.14	0.48
3:CJ:107:LEU:HG	3:CJ:177:VAL:HG12	1.96	0.48
1:AK:521:ARG:HA	1:AK:524:ASN:HD21	1.79	0.48
4:DL:110:GLU:OE1	4:DL:110:GLU:N	2.47	0.48
2:BM:127:PRO:HB2	2:BM:160:ARG:CZ	2.43	0.48
3:CN:96:LEU:HD23	3:CN:186:VAL:HB	1.95	0.48
4:DN:73:MET:SD	4:DN:78:LEU:HD23	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DN:110:GLU:N	4:DN:110:GLU:OE1	2.47	0.48
4:FN:101:ILE:HG12	4:FN:106:ILE:HD11	1.96	0.48
3:CO:292:ILE:HD11	3:CO:315:LEU:HD22	1.96	0.48
4:EO:117:LYS:HZ2	4:FO:92:LEU:HA	1.79	0.48
4:DP:110:GLU:OE1	4:DP:110:GLU:N	2.47	0.48
4:EQ:105:LEU:O	4:EQ:131:ARG:NH2	2.43	0.48
1:AR:521:ARG:HA	1:AR:524:ASN:HD21	1.79	0.48
3:CR:107:LEU:HG	3:CR:177:VAL:HG12	1.94	0.48
1:AT:536:ILE:O	1:AT:539:MET:HG3	2.13	0.48
2:BT:49:ASN:O	2:BT:52:LEU:HG	2.14	0.48
2:BT:172:LEU:O	2:BT:176:THR:HG23	2.14	0.48
3:CT:292:ILE:HD11	3:CT:315:LEU:HD22	1.96	0.48
4:DU:133:ARG:HH21	4:DU:134:ARG:HG2	1.79	0.48
3:CV:144:ARG:NH1	3:CV:150:GLU:OE1	2.34	0.48
2:BX:41:MET:O	2:BX:44:VAL:HG12	2.14	0.48
4:DX:79:LEU:HG	4:FY:53:ASP:OD1	2.14	0.48
2:BY:41:MET:O	2:BY:44:VAL:HG12	2.14	0.48
4:DY:75:ILE:O	4:DY:78:LEU:HG	2.14	0.48
4:DY:110:GLU:OE1	4:DY:110:GLU:N	2.47	0.48
4:EY:117:LYS:HZ2	4:FY:92:LEU:HA	1.79	0.48
3:C1:63:ARG:HH22	3:C2:188:PHE:CB	2.27	0.47
3:C1:253:GLN:OE1	4:F2:106:ILE:HG23	2.14	0.47
2:B2:128:GLN:NE2	3:C2:132:GLY:O	2.47	0.47
3:C2:258:GLU:OE1	4:D2:73:MET:N	2.47	0.47
4:D2:110:GLU:OE1	4:D2:110:GLU:N	2.47	0.47
1:A4:532:MET:HA	1:A4:535:ARG:HG3	1.96	0.47
1:A5:521:ARG:HA	1:A5:524:ASN:HD21	1.79	0.47
1:A5:552:ARG:HD2	2:B6:45:ARG:HH12	1.79	0.47
2:B6:255:ASP:OD2	2:B6:257:GLU:HG2	2.14	0.47
4:D8:125:ILE:HG22	4:D8:126:ILE:N	2.29	0.47
4:E9:117:LYS:HZ2	4:F9:92:LEU:HA	1.79	0.47
1:AA:526:ARG:O	1:AA:530:GLU:HG2	2.13	0.47
2:BB:49:ASN:O	2:BB:52:LEU:HG	2.14	0.47
2:BB:139:ARG:NH1	2:BC:201:GLU:OE1	2.39	0.47
3:CC:89:TYR:HD2	3:CC:195:PRO:HA	1.79	0.47
1:AD:552:ARG:HD2	2:BE:45:ARG:HH12	1.79	0.47
3:CF:291:ARG:NH1	3:CF:318:GLU:OE1	2.40	0.47
4:DF:79:LEU:HG	4:FG:53:ASP:OD1	2.14	0.47
2:BG:49:ASN:O	2:BG:52:LEU:HG	2.14	0.47
3:CG:89:TYR:HD2	3:CG:195:PRO:HA	1.79	0.47
3:CH:101:ASN:ND2	3:CH:103:ASN:HD21	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DH:110:GLU:OE1	4:DH:110:GLU:N	2.47	0.47
1:AI:529:ALA:HA	1:AI:532:MET:HG2	1.96	0.47
2:BI:151:GLU:HA	2:BI:154:ARG:NH1	2.29	0.47
2:BI:316:ALA:HA	2:BI:321:MET:HB3	1.96	0.47
3:CI:89:TYR:HD2	3:CI:195:PRO:HA	1.79	0.47
1:AJ:521:ARG:HA	1:AJ:524:ASN:HD21	1.79	0.47
2:BJ:49:ASN:O	2:BJ:52:LEU:HG	2.14	0.47
2:BJ:128:GLN:NE2	3:CJ:132:GLY:O	2.47	0.47
1:AK:546:VAL:HG13	2:BK:66:PHE:HB3	1.94	0.47
1:AO:543:ASP:OD1	1:AO:545:ARG:NH1	2.46	0.47
4:EP:126:ILE:HG13	4:EP:127:THR:H	1.79	0.47
2:BQ:255:ASP:OD2	2:BQ:257:GLU:HG2	2.14	0.47
3:CQ:96:LEU:HD23	3:CQ:186:VAL:HB	1.96	0.47
1:AR:543:ASP:OD1	1:AR:545:ARG:NH1	2.45	0.47
2:BR:316:ALA:HA	2:BR:321:MET:HB3	1.96	0.47
1:AS:521:ARG:HA	1:AS:524:ASN:HD21	1.79	0.47
1:AS:546:VAL:HG13	2:BS:66:PHE:HB3	1.95	0.47
2:BS:127:PRO:HB2	2:BS:160:ARG:CZ	2.44	0.47
1:AT:533:SER:HA	1:AT:536:ILE:HG12	1.96	0.47
3:CT:280:PRO:HA	4:DT:122:ILE:HG13	1.94	0.47
4:DT:110:GLU:N	4:DT:110:GLU:OE1	2.47	0.47
2:BU:255:ASP:OD2	2:BU:257:GLU:HG2	2.14	0.47
2:BV:41:MET:O	2:BV:44:VAL:HG12	2.14	0.47
4:DV:110:GLU:OE1	4:DV:110:GLU:N	2.47	0.47
1:AW:518:LEU:O	1:AW:522:ARG:HG3	2.14	0.47
1:AX:533:SER:HA	1:AX:536:ILE:HG12	1.96	0.47
4:EX:105:LEU:O	4:EX:131:ARG:NH2	2.38	0.47
2:BY:58:GLU:O	2:BY:61:GLN:HG2	2.14	0.47
2:BY:127:PRO:HA	2:BY:130:ILE:HD12	1.96	0.47
2:B1:199:ALA:HB2	2:BY:161:ILE:HG22	1.95	0.47
3:C1:258:GLU:OE1	4:D1:73:MET:N	2.47	0.47
4:F1:96:PRO:HB2	4:F1:108:GLN:HB3	1.96	0.47
1:A2:518:LEU:O	1:A2:522:ARG:HG3	2.14	0.47
2:B2:77:LEU:HD22	2:B3:41:MET:SD	2.55	0.47
2:B3:41:MET:O	2:B3:44:VAL:HG12	2.13	0.47
2:B7:160:ARG:HG2	3:C7:137:PHE:CE2	2.50	0.47
3:C8:101:ASN:ND2	3:C8:103:ASN:HD21	2.12	0.47
3:C8:294:ALA:HB3	3:C8:302:LEU:HG	1.96	0.47
4:D8:110:GLU:N	4:D8:110:GLU:OE1	2.47	0.47
2:B9:139:ARG:NH1	2:BA:201:GLU:OE1	2.40	0.47
3:C9:96:LEU:HD23	3:C9:186:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:67:GLU:CD	4:FA:65:THR:HG21	2.34	0.47
2:BC:101:ARG:HH12	2:BD:42:ALA:CB	2.27	0.47
2:BC:172:LEU:O	2:BC:176:THR:HG23	2.13	0.47
4:DC:133:ARG:HH21	4:DC:134:ARG:HG2	1.79	0.47
4:ED:117:LYS:HZ2	4:FD:92:LEU:HA	1.79	0.47
2:BE:161:ILE:HG22	2:BF:199:ALA:HB2	1.96	0.47
4:DE:101:ILE:HD11	4:EE:60:ILE:HG12	1.95	0.47
1:AF:518:LEU:O	1:AF:522:ARG:HG3	2.14	0.47
3:CF:246:TRP:HE1	4:EG:83:GLN:HE21	1.61	0.47
3:CF:292:ILE:HD11	3:CF:315:LEU:HD22	1.95	0.47
4:EF:73:MET:HE2	4:EF:77:GLU:OE2	2.14	0.47
2:BH:52:LEU:HA	2:BH:55:VAL:HG22	1.96	0.47
2:BJ:132:THR:HA	2:BK:193:MET:CE	2.43	0.47
2:BK:101:ARG:HH12	2:BL:42:ALA:CB	2.26	0.47
2:BL:161:ILE:HG22	2:BM:199:ALA:HB2	1.96	0.47
1:AM:518:LEU:O	1:AM:522:ARG:HG3	2.14	0.47
2:BM:58:GLU:O	2:BM:61:GLN:HG2	2.15	0.47
4:DM:110:GLU:OE1	4:DM:110:GLU:N	2.47	0.47
3:CO:105:ILE:HG12	3:CO:162:LEU:HD11	1.96	0.47
3:CO:288:LYS:NZ	4:DO:116:ASP:O	2.43	0.47
2:BP:52:LEU:HA	2:BP:55:VAL:HG22	1.96	0.47
1:AS:518:LEU:O	1:AS:522:ARG:HG3	2.14	0.47
3:CS:101:ASN:ND2	3:CS:103:ASN:HD21	2.12	0.47
1:AT:518:LEU:O	1:AT:522:ARG:HG3	2.14	0.47
4:DT:73:MET:SD	4:DT:78:LEU:HD23	2.54	0.47
4:EV:126:ILE:HG13	4:EV:127:THR:H	1.78	0.47
2:BW:41:MET:O	2:BW:44:VAL:HG12	2.13	0.47
2:BW:316:ALA:HA	2:BW:321:MET:HB3	1.94	0.47
1:AX:546:VAL:HG13	2:BX:66:PHE:HB3	1.96	0.47
2:BX:158:MET:HE2	2:BY:214:VAL:CG1	2.44	0.47
3:CX:238:ASN:HB3	4:EY:83:GLN:NE2	2.29	0.47
3:CX:260:GLU:OE2	4:DX:72:ARG:NH2	2.47	0.47
1:AY:521:ARG:HA	1:AY:524:ASN:HD21	1.79	0.47
2:BY:316:ALA:HA	2:BY:321:MET:HB3	1.96	0.47
1:A3:543:ASP:OD1	1:A3:545:ARG:NH1	2.46	0.47
3:C4:292:ILE:HD11	3:C4:315:LEU:HD22	1.96	0.47
2:B5:151:GLU:HA	2:B5:154:ARG:NH1	2.30	0.47
2:B5:255:ASP:OD2	2:B5:257:GLU:HG2	2.14	0.47
2:B7:127:PRO:HB2	2:B7:160:ARG:CZ	2.45	0.47
1:A9:552:ARG:HD2	2:BA:45:ARG:HH12	1.79	0.47
3:C9:63:ARG:HH22	3:CA:188:PHE:CB	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:518:LEU:O	1:AA:522:ARG:HG3	2.14	0.47
3:CB:96:LEU:HD23	3:CB:186:VAL:HB	1.95	0.47
3:CB:288:LYS:NZ	4:DB:116:ASP:O	2.46	0.47
3:CB:292:ILE:HD11	3:CB:315:LEU:HD22	1.95	0.47
2:BC:151:GLU:HA	2:BC:154:ARG:NH1	2.29	0.47
3:CC:243:ASP:O	3:CC:247:ARG:HG2	2.14	0.47
2:BD:127:PRO:HB2	2:BD:160:ARG:CZ	2.45	0.47
2:BD:151:GLU:HA	2:BD:154:ARG:NH1	2.30	0.47
4:DD:125:ILE:HG22	4:DD:126:ILE:N	2.29	0.47
1:AE:521:ARG:HA	1:AE:524:ASN:HD21	1.79	0.47
4:DE:75:ILE:O	4:DE:78:LEU:HG	2.14	0.47
2:BF:77:LEU:HD22	2:BG:41:MET:SD	2.54	0.47
3:CG:101:ASN:ND2	3:CG:103:ASN:HD21	2.12	0.47
4:DG:110:GLU:OE1	4:DG:110:GLU:N	2.47	0.47
4:FG:57:ILE:HG13	4:FG:60:ILE:HB	1.96	0.47
2:BH:161:ILE:HG22	2:BI:199:ALA:HB2	1.96	0.47
2:BI:41:MET:O	2:BI:44:VAL:HG12	2.15	0.47
2:BI:139:ARG:NH1	2:BJ:201:GLU:OE1	2.37	0.47
2:BI:161:ILE:HG22	2:BJ:199:ALA:HB2	1.96	0.47
4:DI:110:GLU:N	4:DI:110:GLU:OE1	2.47	0.47
1:AJ:518:LEU:O	1:AJ:522:ARG:HG3	2.14	0.47
3:CJ:144:ARG:NH1	3:CJ:150:GLU:OE1	2.36	0.47
4:DJ:72:ARG:NE	4:DJ:72:ARG:HA	2.29	0.47
4:DJ:110:GLU:OE1	4:DJ:110:GLU:N	2.47	0.47
1:AK:518:LEU:O	1:AK:522:ARG:HG3	2.15	0.47
2:BK:128:GLN:NE2	3:CK:132:GLY:O	2.47	0.47
3:CK:292:ILE:HD11	3:CK:315:LEU:HD22	1.95	0.47
3:CK:296:VAL:HG13	3:CK:301:VAL:HG11	1.96	0.47
4:DK:110:GLU:OE1	4:DK:110:GLU:N	2.47	0.47
2:BL:316:ALA:HA	2:BL:321:MET:HB3	1.95	0.47
4:DL:133:ARG:HH21	4:DL:134:ARG:HG2	1.80	0.47
3:CO:96:LEU:HD23	3:CO:186:VAL:HB	1.96	0.47
3:CP:63:ARG:HH22	3:CQ:188:PHE:CB	2.27	0.47
4:DQ:110:GLU:N	4:DQ:110:GLU:OE1	2.47	0.47
4:DQ:125:ILE:HG22	4:DQ:126:ILE:N	2.29	0.47
4:DR:133:ARG:HH21	4:DR:134:ARG:HG2	1.79	0.47
4:ER:72:ARG:HH22	4:FR:62:VAL:N	2.12	0.47
4:ER:105:LEU:O	4:ER:131:ARG:NH2	2.43	0.47
2:BS:160:ARG:HG2	3:CS:137:PHE:CE2	2.49	0.47
3:CS:63:ARG:NH2	3:CT:188:PHE:HA	2.29	0.47
3:CS:96:LEU:HD23	3:CS:186:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:552:ARG:HD2	2:BU:45:ARG:HH12	1.80	0.47
2:BT:101:ARG:HH12	2:BU:42:ALA:CB	2.27	0.47
2:BT:160:ARG:HG2	3:CT:137:PHE:CE2	2.49	0.47
4:FT:96:PRO:HB2	4:FT:108:GLN:HB3	1.96	0.47
2:BU:131:ALA:HB1	2:BU:161:ILE:CD1	2.44	0.47
4:EU:117:LYS:HZ2	4:FU:92:LEU:HA	1.80	0.47
4:EU:126:ILE:HG13	4:EU:127:THR:H	1.78	0.47
2:BV:316:ALA:HA	2:BV:321:MET:HB3	1.96	0.47
3:CV:249:ASN:CG	4:FW:125:ILE:HD13	2.34	0.47
3:CW:294:ALA:HB3	3:CW:302:LEU:HG	1.97	0.47
2:B1:127:PRO:HA	2:B1:130:ILE:HD12	1.97	0.47
1:A3:518:LEU:O	1:A3:522:ARG:HG3	2.14	0.47
1:A3:533:SER:HA	1:A3:536:ILE:HG12	1.97	0.47
3:C3:246:TRP:CD1	4:E4:82:THR:HA	2.49	0.47
2:B4:101:ARG:HH12	2:B5:42:ALA:HB3	1.78	0.47
1:A5:533:SER:HA	1:A5:536:ILE:HG12	1.96	0.47
4:E5:126:ILE:HG13	4:E5:127:THR:H	1.79	0.47
3:C6:113:THR:O	3:C6:191:ILE:HD11	2.14	0.47
3:C7:101:ASN:ND2	3:C7:103:ASN:HD21	2.13	0.47
2:B8:52:LEU:HA	2:B8:55:VAL:HG22	1.96	0.47
3:C9:242:GLU:HB2	3:C9:246:TRP:CD1	2.50	0.47
3:CA:63:ARG:HH22	3:CB:188:PHE:CB	2.26	0.47
2:BB:160:ARG:HG2	3:CB:137:PHE:CE2	2.50	0.47
3:CB:294:ALA:HB3	3:CB:302:LEU:HG	1.96	0.47
1:AC:521:ARG:HA	1:AC:524:ASN:HD21	1.79	0.47
4:DD:110:GLU:OE1	4:DD:110:GLU:N	2.47	0.47
4:DD:133:ARG:HH21	4:DD:134:ARG:HG2	1.79	0.47
2:BF:172:LEU:O	2:BF:176:THR:HG23	2.14	0.47
2:BF:316:ALA:HA	2:BF:321:MET:HB3	1.95	0.47
3:CF:89:TYR:HD2	3:CF:195:PRO:HA	1.79	0.47
3:CG:292:ILE:HD11	3:CG:315:LEU:HD22	1.95	0.47
2:BH:132:THR:O	2:BI:193:MET:HE1	2.13	0.47
4:EH:130:GLU:HG3	4:EH:133:ARG:HH22	1.79	0.47
1:AI:533:SER:HA	1:AI:536:ILE:HG12	1.96	0.47
2:BJ:172:LEU:O	2:BJ:176:THR:HG23	2.15	0.47
3:CJ:288:LYS:NZ	4:DJ:116:ASP:O	2.42	0.47
1:AL:546:VAL:HG13	2:BL:66:PHE:HB3	1.95	0.47
4:DL:108:GLN:N	4:DL:124:ASP:OD1	2.38	0.47
2:BM:151:GLU:HA	2:BM:154:ARG:NH1	2.29	0.47
4:FM:64:LEU:HA	4:FM:101:ILE:HA	1.97	0.47
2:BO:127:PRO:HB2	2:BO:160:ARG:CZ	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:151:GLU:HA	2:BO:154:ARG:NH1	2.30	0.47
4:DO:110:GLU:OE1	4:DO:110:GLU:N	2.47	0.47
1:AQ:522:ARG:HB2	1:AQ:526:ARG:HH21	1.80	0.47
1:AQ:543:ASP:OD1	1:AQ:545:ARG:NH1	2.45	0.47
3:CQ:246:TRP:HH2	4:FR:122:ILE:HG13	1.79	0.47
4:DQ:79:LEU:HG	4:FR:53:ASP:OD1	2.15	0.47
2:BR:49:ASN:O	2:BR:52:LEU:HG	2.14	0.47
2:BS:58:GLU:O	2:BS:61:GLN:HG2	2.15	0.47
4:FT:105:LEU:HD23	4:FT:131:ARG:HG3	1.96	0.47
2:BU:127:PRO:HB2	2:BU:160:ARG:NE	2.28	0.47
2:BU:151:GLU:HA	2:BU:154:ARG:NH1	2.30	0.47
2:BU:172:LEU:O	2:BU:176:THR:HG23	2.14	0.47
2:BV:139:ARG:NH1	2:BW:201:GLU:OE1	2.38	0.47
3:CV:89:TYR:HD2	3:CV:195:PRO:HA	1.79	0.47
3:CV:96:LEU:HD23	3:CV:186:VAL:HB	1.96	0.47
1:AW:526:ARG:O	1:AW:530:GLU:HG2	2.13	0.47
2:BW:58:GLU:O	2:BW:61:GLN:HG2	2.14	0.47
2:BW:193:MET:O	2:BW:193:MET:SD	2.73	0.47
3:CX:240:ARG:NH2	3:CX:243:ASP:OD2	2.47	0.47
1:A1:553:GLN:NE2	1:A1:557:ASN:OD1	2.47	0.47
2:B1:218:VAL:HB	2:BY:158:MET:CE	2.45	0.47
3:C1:101:ASN:ND2	3:C1:103:ASN:HD21	2.13	0.47
3:C1:105:ILE:HG12	3:C1:162:LEU:HD11	1.97	0.47
2:B2:151:GLU:HA	2:B2:154:ARG:NH1	2.30	0.47
3:C4:63:ARG:HH22	3:C5:188:PHE:CB	2.27	0.47
3:C5:101:ASN:ND2	3:C5:103:ASN:HD21	2.13	0.47
3:C5:272:LEU:HD23	4:D5:60:ILE:HB	1.96	0.47
4:D5:125:ILE:HG22	4:D5:126:ILE:N	2.29	0.47
4:E5:117:LYS:HZ2	4:F5:92:LEU:HA	1.78	0.47
1:A6:518:LEU:O	1:A6:522:ARG:HG3	2.14	0.47
2:B6:160:ARG:HG2	3:C6:137:PHE:CE2	2.49	0.47
4:D6:110:GLU:OE1	4:D6:110:GLU:N	2.47	0.47
3:C7:253:GLN:HE22	4:F8:106:ILE:HA	1.78	0.47
3:C8:255:GLN:HG2	4:D8:76:LYS:HE3	1.96	0.47
1:A9:518:LEU:O	1:A9:522:ARG:HG3	2.14	0.47
1:A9:521:ARG:HA	1:A9:524:ASN:HD21	1.79	0.47
2:B9:101:ARG:HH12	2:BA:42:ALA:CB	2.28	0.47
3:C9:275:ILE:HD11	4:D9:64:LEU:HD21	1.95	0.47
4:DB:75:ILE:O	4:DB:78:LEU:HG	2.14	0.47
1:AC:546:VAL:HG13	2:BC:66:PHE:HB3	1.95	0.47
3:CC:63:ARG:HH22	3:CD:188:PHE:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:125:ILE:HG22	4:DC:126:ILE:N	2.29	0.47
1:AD:518:LEU:O	1:AD:522:ARG:HG3	2.14	0.47
1:AD:521:ARG:HA	1:AD:524:ASN:HD21	1.79	0.47
3:CD:63:ARG:HH22	3:CE:188:PHE:CB	2.27	0.47
2:BE:316:ALA:HA	2:BE:321:MET:HB3	1.96	0.47
3:CE:121:SER:O	3:CE:125:ILE:HG12	2.15	0.47
3:CE:296:VAL:HG21	4:FF:60:ILE:HD12	1.97	0.47
4:EE:73:MET:HE1	4:EE:78:LEU:CG	2.39	0.47
3:CH:294:ALA:HB3	3:CH:302:LEU:HG	1.97	0.47
3:CI:246:TRP:HA	3:CI:249:ASN:OD1	2.15	0.47
4:EI:126:ILE:HG13	4:EI:127:THR:H	1.78	0.47
2:BJ:316:ALA:HA	2:BJ:321:MET:HB3	1.95	0.47
4:EJ:74:THR:OG1	4:EJ:75:ILE:N	2.47	0.47
2:BK:255:ASP:OD2	2:BK:257:GLU:HG2	2.14	0.47
2:BM:255:ASP:OD2	2:BM:257:GLU:HG2	2.14	0.47
3:CM:240:ARG:NH2	3:CM:243:ASP:OD2	2.48	0.47
4:DM:78:LEU:HA	4:DM:81:LEU:HG	1.97	0.47
1:AN:521:ARG:HA	1:AN:524:ASN:HD21	1.79	0.47
2:BN:151:GLU:HA	2:BN:154:ARG:NH1	2.29	0.47
3:CN:296:VAL:HG21	4:FO:60:ILE:HD12	1.96	0.47
3:CO:89:TYR:HD2	3:CO:195:PRO:HA	1.79	0.47
4:DO:79:LEU:HG	4:FP:53:ASP:OD1	2.14	0.47
1:AP:518:LEU:O	1:AP:522:ARG:HG3	2.15	0.47
1:AQ:518:LEU:O	1:AQ:522:ARG:HG3	2.14	0.47
2:BQ:151:GLU:HA	2:BQ:154:ARG:NH1	2.30	0.47
2:BS:49:ASN:O	2:BS:52:LEU:HG	2.14	0.47
3:CS:296:VAL:HG13	3:CS:301:VAL:HG11	1.95	0.47
3:CT:89:TYR:HD2	3:CT:195:PRO:HA	1.79	0.47
1:AU:518:LEU:O	1:AU:522:ARG:HG3	2.14	0.47
1:AU:535:ARG:O	1:AU:538:GLU:HG3	2.15	0.47
2:BV:158:MET:CE	2:BW:218:VAL:HB	2.44	0.47
3:CV:222:SER:HA	3:CV:225:GLU:HG2	1.97	0.47
4:DV:101:ILE:HD11	4:EV:60:ILE:HG12	1.95	0.47
4:DW:73:MET:SD	4:DW:78:LEU:HD23	2.54	0.47
3:C1:249:ASN:CG	4:F2:125:ILE:HD13	2.34	0.47
4:D1:125:ILE:HG22	4:D1:126:ILE:N	2.29	0.47
2:B2:77:LEU:HD21	2:B3:38:SER:HB3	1.96	0.47
3:C2:89:TYR:HD2	3:C2:195:PRO:HA	1.79	0.47
3:C2:238:ASN:ND2	4:E3:83:GLN:OE1	2.48	0.47
3:C3:63:ARG:NH2	3:C4:188:PHE:HA	2.30	0.47
2:B4:131:ALA:HB1	2:B4:161:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:172:LEU:O	2:B4:176:THR:HG23	2.13	0.47
1:A5:522:ARG:HB2	1:A5:526:ARG:HH21	1.80	0.47
3:C5:63:ARG:HH22	3:C6:188:PHE:CB	2.27	0.47
3:C5:156:ARG:HA	3:C5:159:LYS:HZ3	1.80	0.47
2:B6:52:LEU:HA	2:B6:55:VAL:HG22	1.96	0.47
2:B6:127:PRO:HB2	2:B6:160:ARG:CZ	2.45	0.47
4:D6:73:MET:SD	4:D6:78:LEU:HD23	2.55	0.47
1:A7:518:LEU:O	1:A7:522:ARG:HG3	2.14	0.47
1:A7:522:ARG:HB2	1:A7:526:ARG:HH21	1.80	0.47
2:B8:49:ASN:O	2:B8:52:LEU:HG	2.15	0.47
3:C9:246:TRP:CE3	4:FA:125:ILE:HD13	2.50	0.47
3:CD:292:ILE:HD11	3:CD:315:LEU:HD22	1.95	0.47
2:BE:41:MET:O	2:BE:44:VAL:HG12	2.13	0.47
2:BE:127:PRO:HB2	2:BE:160:ARG:CZ	2.45	0.47
3:CE:89:TYR:HD2	3:CE:195:PRO:HA	1.79	0.47
3:CE:292:ILE:HD11	3:CE:315:LEU:HD22	1.95	0.47
3:CF:96:LEU:HD23	3:CF:186:VAL:HB	1.95	0.47
3:CF:294:ALA:HB3	3:CF:302:LEU:HG	1.96	0.47
2:BG:41:MET:O	2:BG:44:VAL:HG12	2.15	0.47
3:CG:96:LEU:HD23	3:CG:186:VAL:HB	1.96	0.47
3:CG:291:ARG:NH1	3:CG:318:GLU:OE1	2.40	0.47
4:DH:125:ILE:HG22	4:DH:126:ILE:N	2.29	0.47
4:FH:54:ILE:HG13	4:FH:55:ASP:H	1.79	0.47
2:BJ:255:ASP:OD2	2:BJ:257:GLU:HG2	2.14	0.47
3:CK:96:LEU:HD23	3:CK:186:VAL:HB	1.96	0.47
3:CL:89:TYR:HD2	3:CL:195:PRO:HA	1.79	0.47
2:BM:158:MET:HE1	2:BN:217:ALA:HB3	1.96	0.47
2:BN:132:THR:O	2:BO:193:MET:HE1	2.14	0.47
3:CO:249:ASN:OD1	3:CO:250:LEU:N	2.48	0.47
4:DP:79:LEU:HG	4:FQ:53:ASP:OD1	2.15	0.47
3:CQ:89:TYR:HD2	3:CQ:195:PRO:HA	1.79	0.47
3:CQ:105:ILE:HG12	3:CQ:162:LEU:HD11	1.97	0.47
3:CR:96:LEU:HD23	3:CR:186:VAL:HB	1.97	0.47
3:CS:275:ILE:HD11	4:DS:64:LEU:HD21	1.96	0.47
4:FT:105:LEU:HD21	4:FT:126:ILE:HG21	1.95	0.47
3:CU:144:ARG:NH1	3:CU:150:GLU:OE1	2.34	0.47
1:A1:518:LEU:O	1:A1:522:ARG:HG3	2.14	0.47
1:A1:533:SER:HA	1:A1:536:ILE:HG12	1.97	0.47
2:B1:58:GLU:O	2:B1:61:GLN:HG2	2.15	0.47
2:B1:127:PRO:HB2	2:B1:160:ARG:CZ	2.45	0.47
2:B1:158:MET:CE	2:B2:218:VAL:HB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:160:ARG:HG2	3:C1:137:PHE:CE2	2.50	0.47
4:F1:63:LYS:O	4:F1:102:ASN:N	2.36	0.47
1:A2:533:SER:HA	1:A2:536:ILE:HG12	1.97	0.47
3:C2:105:ILE:HG12	3:C2:162:LEU:HD11	1.97	0.47
4:E2:117:LYS:HZ2	4:F2:92:LEU:HA	1.79	0.47
4:E2:126:ILE:HG13	4:E2:127:THR:H	1.79	0.47
1:A3:522:ARG:HB2	1:A3:526:ARG:HH21	1.80	0.47
2:B3:316:ALA:HA	2:B3:321:MET:HB3	1.96	0.47
2:B4:41:MET:O	2:B4:44:VAL:HG12	2.14	0.47
2:B4:128:GLN:NE2	3:C4:132:GLY:O	2.48	0.47
3:C4:294:ALA:O	3:C4:301:VAL:HG22	2.14	0.47
2:B6:49:ASN:O	2:B6:52:LEU:HG	2.14	0.47
2:B6:70:ASN:HA	2:B7:15:MET:HE1	1.97	0.47
3:C6:296:VAL:HG21	4:F7:60:ILE:HD12	1.95	0.47
2:B7:255:ASP:OD2	2:B7:257:GLU:HG2	2.14	0.47
3:C7:249:ASN:CG	4:F8:125:ILE:HD13	2.35	0.47
4:D7:105:LEU:C	4:D7:131:ARG:HH12	2.18	0.47
2:B8:41:MET:O	2:B8:44:VAL:HG12	2.14	0.47
2:B8:101:ARG:HH12	2:B9:42:ALA:HB1	1.79	0.47
3:C8:249:ASN:CG	4:F9:125:ILE:HD13	2.35	0.47
4:D8:79:LEU:HG	4:F9:53:ASP:OD1	2.14	0.47
1:A9:522:ARG:HB2	1:A9:526:ARG:HH21	1.80	0.47
2:B9:127:PRO:HB2	2:B9:160:ARG:CZ	2.44	0.47
2:B9:321:MET:HG3	2:B9:323:ILE:HG23	1.97	0.47
4:D9:79:LEU:HG	4:FA:53:ASP:OD1	2.15	0.47
1:AA:546:VAL:HG13	2:BA:66:PHE:HB3	1.97	0.47
4:DA:133:ARG:HH21	4:DA:134:ARG:HG2	1.80	0.47
2:BB:316:ALA:HA	2:BB:321:MET:HB3	1.95	0.47
3:CB:121:SER:O	3:CB:125:ILE:HG12	2.15	0.47
2:BC:246:SER:HB3	2:BC:321:MET:SD	2.55	0.47
4:DC:110:GLU:N	4:DC:110:GLU:OE1	2.47	0.47
2:BD:101:ARG:HH12	2:BE:42:ALA:CB	2.27	0.47
1:AE:543:ASP:OD1	1:AE:545:ARG:NH1	2.45	0.47
1:AF:521:ARG:HA	1:AF:524:ASN:HD21	1.79	0.47
4:DG:125:ILE:HG22	4:DG:126:ILE:N	2.29	0.47
4:EG:109:GLY:HA3	4:EG:122:ILE:HA	1.95	0.47
1:AH:517:GLN:OE1	1:AH:517:GLN:N	2.47	0.47
1:AH:521:ARG:HA	1:AH:524:ASN:ND2	2.29	0.47
1:AH:546:VAL:HG13	2:BH:66:PHE:HB3	1.94	0.47
2:BH:127:PRO:HB2	2:BH:160:ARG:CZ	2.45	0.47
3:CH:292:ILE:HD11	3:CH:315:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:172:LEU:O	2:BI:176:THR:HG23	2.15	0.47
3:CI:101:ASN:ND2	3:CI:103:ASN:HD21	2.13	0.47
4:FI:96:PRO:HB2	4:FI:108:GLN:HB3	1.96	0.47
2:BJ:127:PRO:HB2	2:BJ:160:ARG:CZ	2.45	0.47
3:CJ:121:SER:O	3:CJ:125:ILE:HG12	2.15	0.47
3:CJ:246:TRP:HH2	4:FK:122:ILE:HG13	1.80	0.47
1:AK:537:ARG:CA	2:BK:21:ARG:HH22	2.24	0.47
3:CK:294:ALA:HB3	3:CK:302:LEU:HG	1.97	0.47
3:CL:63:ARG:HH22	3:CM:188:PHE:CB	2.27	0.47
3:CL:96:LEU:HD23	3:CL:186:VAL:HB	1.96	0.47
2:BM:160:ARG:HG2	3:CM:137:PHE:CE2	2.49	0.47
3:CM:96:LEU:HD23	3:CM:186:VAL:HB	1.96	0.47
2:BN:52:LEU:HA	2:BN:55:VAL:HG22	1.96	0.47
2:BN:77:LEU:HD21	2:BO:38:SER:HB3	1.96	0.47
2:BN:127:PRO:HB2	2:BN:160:ARG:CZ	2.45	0.47
2:BN:161:ILE:HG22	2:BO:199:ALA:HB2	1.95	0.47
3:CN:246:TRP:HH2	4:FO:122:ILE:HG13	1.78	0.47
3:CO:121:SER:O	3:CO:125:ILE:HG12	2.15	0.47
1:AP:552:ARG:HD2	2:BQ:45:ARG:HH12	1.80	0.47
2:BP:58:GLU:O	2:BP:61:GLN:HG2	2.15	0.47
2:BP:158:MET:CE	2:BQ:217:ALA:HB3	2.45	0.47
3:CP:105:ILE:HG12	3:CP:162:LEU:HD11	1.97	0.47
3:CP:121:SER:O	3:CP:125:ILE:HG12	2.15	0.47
3:CP:272:LEU:HD23	4:DP:60:ILE:HB	1.97	0.47
2:BQ:172:LEU:O	2:BQ:176:THR:HG23	2.14	0.47
1:AR:518:LEU:O	1:AR:522:ARG:HG3	2.15	0.47
2:BS:131:ALA:HB1	2:BS:161:ILE:CD1	2.45	0.47
2:BS:139:ARG:NH1	2:BT:201:GLU:OE1	2.39	0.47
3:CT:96:LEU:HD23	3:CT:186:VAL:HB	1.97	0.47
2:BU:49:ASN:O	2:BU:52:LEU:HG	2.14	0.47
2:BU:210:GLN:O	2:BU:214:VAL:HG23	2.15	0.47
3:CU:96:LEU:HD23	3:CU:186:VAL:HB	1.97	0.47
3:CU:253:GLN:NE2	4:FV:125:ILE:HB	2.30	0.47
3:CU:260:GLU:OE2	4:DU:72:ARG:NH2	2.47	0.47
4:DU:110:GLU:OE1	4:DU:110:GLU:N	2.47	0.47
1:AV:522:ARG:HB2	1:AV:526:ARG:HH21	1.80	0.47
1:AV:553:GLN:NE2	1:AV:557:ASN:OD1	2.47	0.47
2:BV:58:GLU:O	2:BV:61:GLN:HG2	2.15	0.47
4:DV:125:ILE:HG22	4:DV:126:ILE:N	2.29	0.47
1:AW:535:ARG:HH22	2:BW:60:GLU:HB2	1.79	0.47
2:BW:151:GLU:HA	2:BW:154:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:518:LEU:O	1:AX:522:ARG:HG3	2.15	0.47
2:BX:58:GLU:O	2:BX:61:GLN:HG2	2.14	0.47
3:CY:89:TYR:HD2	3:CY:195:PRO:HA	1.79	0.47
3:CY:105:ILE:HG12	3:CY:162:LEU:HD11	1.97	0.47
4:EY:126:ILE:HG13	4:EY:127:THR:H	1.78	0.47
1:A1:535:ARG:HH22	2:B1:60:GLU:HB2	1.79	0.47
4:D1:110:GLU:OE1	4:D1:110:GLU:N	2.47	0.47
1:A2:535:ARG:O	1:A2:538:GLU:HG3	2.15	0.47
2:B2:131:ALA:HB1	2:B2:161:ILE:CD1	2.45	0.47
2:B2:160:ARG:HG2	3:C2:137:PHE:CE2	2.50	0.47
3:C3:63:ARG:HH22	3:C4:188:PHE:CB	2.27	0.47
1:A4:537:ARG:CA	2:B4:21:ARG:HH22	2.24	0.47
2:B4:58:GLU:O	2:B4:61:GLN:HG2	2.15	0.47
4:D4:125:ILE:HG22	4:D4:126:ILE:N	2.29	0.47
3:C5:253:GLN:NE2	4:F6:106:ILE:HA	2.30	0.47
4:F5:97:LEU:HB2	4:F5:109:GLY:O	2.15	0.47
2:B6:58:GLU:O	2:B6:61:GLN:HG2	2.15	0.47
3:C6:272:LEU:HD23	4:D6:60:ILE:HB	1.96	0.47
1:A8:521:ARG:HA	1:A8:524:ASN:HD21	1.79	0.47
2:B8:316:ALA:HA	2:B8:321:MET:HB3	1.96	0.47
2:B9:12:ILE:HG12	2:B9:47:ILE:HG12	1.97	0.47
2:BB:127:PRO:HB2	2:BB:160:ARG:CZ	2.45	0.47
3:CB:275:ILE:HD11	4:DB:64:LEU:HD21	1.96	0.47
2:BC:160:ARG:HG2	3:CC:137:PHE:CE2	2.49	0.47
3:CC:121:SER:O	3:CC:125:ILE:HG12	2.15	0.47
2:BD:316:ALA:HA	2:BD:321:MET:HB3	1.96	0.47
2:BE:124:ASP:N	2:BE:124:ASP:OD1	2.48	0.47
3:CG:121:SER:O	3:CG:125:ILE:HG12	2.15	0.47
2:BI:255:ASP:OD2	2:BI:257:GLU:HG2	2.14	0.47
3:CJ:89:TYR:HD2	3:CJ:195:PRO:HA	1.79	0.47
3:CL:292:ILE:HD11	3:CL:315:LEU:HD22	1.96	0.47
1:AN:522:ARG:HB2	1:AN:526:ARG:HH21	1.80	0.47
4:FN:60:ILE:O	4:FN:60:ILE:HG13	2.14	0.47
1:AO:535:ARG:HH22	2:BO:60:GLU:HB2	1.80	0.47
3:CP:299:VAL:HG23	4:FP:132:MET:HG2	1.97	0.47
3:CQ:121:SER:O	3:CQ:125:ILE:HG12	2.15	0.47
4:DR:125:ILE:HG22	4:DR:126:ILE:N	2.29	0.47
2:BS:147:ALA:HA	2:BT:210:GLN:HE21	1.80	0.47
3:CT:256:HIS:CD2	4:FU:104:TYR:CE2	3.02	0.47
2:BV:127:PRO:HB2	2:BV:160:ARG:NE	2.29	0.47
1:AY:533:SER:HA	1:AY:536:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BY:124:ASP:OD1	2:BY:124:ASP:N	2.48	0.47
2:BY:131:ALA:HB1	2:BY:161:ILE:CD1	2.44	0.47
4:DY:133:ARG:HH21	4:DY:134:ARG:HG2	1.80	0.47
1:A1:521:ARG:HA	1:A1:524:ASN:HD21	1.79	0.47
2:B1:193:MET:HE1	2:BY:132:THR:HA	1.97	0.47
3:C1:63:ARG:NH2	3:C2:188:PHE:HA	2.30	0.47
2:B4:126:HIS:O	2:B4:129:ILE:HG22	2.15	0.47
4:D4:133:ARG:HH21	4:D4:134:ARG:HG2	1.80	0.47
2:B5:58:GLU:O	2:B5:61:GLN:HG2	2.14	0.47
2:B5:172:LEU:O	2:B5:176:THR:HG23	2.15	0.47
4:D5:79:LEU:HG	4:F6:53:ASP:OD1	2.15	0.47
2:B6:128:GLN:NE2	3:C6:132:GLY:O	2.48	0.47
3:C6:257:SER:HB3	4:F7:104:TYR:CD2	2.50	0.47
1:A7:537:ARG:CA	2:B7:21:ARG:HH22	2.24	0.47
3:C7:257:SER:HB3	4:F8:104:TYR:CD2	2.49	0.47
4:F9:97:LEU:HB2	4:F9:109:GLY:O	2.15	0.47
3:CA:121:SER:O	3:CA:125:ILE:HG12	2.15	0.47
3:CA:292:ILE:HD11	3:CA:315:LEU:HD22	1.96	0.47
1:AB:522:ARG:HB2	1:AB:526:ARG:HH21	1.79	0.47
2:BB:77:LEU:HD21	2:BC:38:SER:HB3	1.97	0.47
2:BB:151:GLU:HA	2:BB:154:ARG:NH1	2.30	0.47
4:FB:97:LEU:HB2	4:FB:109:GLY:O	2.15	0.47
2:BD:210:GLN:O	2:BD:214:VAL:HG23	2.15	0.47
3:CD:121:SER:O	3:CD:125:ILE:HG12	2.15	0.47
2:BF:124:ASP:OD1	2:BF:124:ASP:N	2.48	0.47
3:CF:121:SER:O	3:CF:125:ILE:HG12	2.15	0.47
4:DG:79:LEU:HG	4:FH:53:ASP:OD1	2.15	0.47
3:CJ:272:LEU:HD23	4:DJ:60:ILE:HB	1.96	0.47
2:BL:151:GLU:HA	2:BL:154:ARG:NH1	2.30	0.47
3:CM:105:ILE:HG12	3:CM:162:LEU:HD11	1.97	0.47
3:CN:121:SER:O	3:CN:125:ILE:HG12	2.15	0.47
3:CN:294:ALA:HB3	3:CN:302:LEU:HG	1.97	0.47
2:BO:101:ARG:HH22	2:BP:42:ALA:HB3	1.80	0.47
1:AP:522:ARG:HB2	1:AP:526:ARG:HH21	1.80	0.47
4:DP:125:ILE:HG22	4:DP:126:ILE:N	2.29	0.47
1:AR:552:ARG:HD2	2:BS:45:ARG:HH12	1.79	0.47
2:BR:111:ASN:OD1	2:BR:137:LEU:HB3	2.15	0.47
2:BR:172:LEU:O	2:BR:176:THR:HG23	2.15	0.47
3:CR:105:ILE:HG12	3:CR:162:LEU:HD11	1.97	0.47
3:CS:105:ILE:HG12	3:CS:162:LEU:HD11	1.97	0.47
4:DS:133:ARG:HH21	4:DS:134:ARG:HG2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EU:98:ASP:HA	4:EU:108:GLN:HA	1.97	0.47
3:CV:294:ALA:HB3	3:CV:302:LEU:HG	1.97	0.47
3:CW:63:ARG:NH2	3:CX:188:PHE:HA	2.30	0.47
2:BY:151:GLU:HA	2:BY:154:ARG:NH1	2.30	0.47
2:B1:49:ASN:O	2:B1:52:LEU:HG	2.14	0.47
4:D2:79:LEU:HG	4:F3:53:ASP:OD1	2.15	0.47
4:F2:64:LEU:HA	4:F2:101:ILE:HA	1.97	0.47
2:B3:151:GLU:HA	2:B3:154:ARG:NH1	2.30	0.47
3:C3:296:VAL:HG13	3:C3:301:VAL:HG11	1.97	0.47
2:B7:316:ALA:HA	2:B7:321:MET:HB3	1.96	0.47
3:C7:253:GLN:O	4:F8:104:TYR:OH	2.22	0.47
4:D7:110:GLU:OE1	4:D7:110:GLU:N	2.47	0.47
4:F7:107:ALA:HB3	4:F7:122:ILE:HD11	1.96	0.47
2:B8:127:PRO:HB2	2:B8:160:ARG:CZ	2.45	0.47
2:B8:155:HIS:O	2:B8:159:LEU:HG	2.14	0.47
2:B8:255:ASP:OD2	2:B8:257:GLU:HG2	2.14	0.47
3:C8:105:ILE:HG12	3:C8:162:LEU:HD11	1.97	0.47
2:B9:255:ASP:OD2	2:B9:257:GLU:HG2	2.14	0.47
3:C9:299:VAL:HG23	4:F9:132:MET:HG2	1.97	0.47
2:BA:114:GLU:HG2	2:BA:115:PRO:HD2	1.97	0.47
2:BA:160:ARG:HG2	3:CA:137:PHE:CE2	2.50	0.47
3:CA:96:LEU:HD23	3:CA:186:VAL:HB	1.97	0.47
2:BC:127:PRO:HB2	2:BC:160:ARG:CZ	2.45	0.47
3:CC:292:ILE:HD11	3:CC:315:LEU:HD22	1.96	0.47
4:DC:79:LEU:HG	4:FD:53:ASP:OD1	2.15	0.47
2:BD:255:ASP:OD2	2:BD:257:GLU:HG2	2.14	0.47
3:CD:275:ILE:HD11	4:DD:64:LEU:HD21	1.95	0.47
1:AE:535:ARG:O	1:AE:538:GLU:HG3	2.15	0.47
1:AF:552:ARG:HD2	2:BG:45:ARG:HH12	1.80	0.47
2:BF:151:GLU:HA	2:BF:154:ARG:NH1	2.30	0.47
2:BG:255:ASP:OD2	2:BG:257:GLU:HG2	2.13	0.47
3:CH:63:ARG:HH22	3:CI:188:PHE:CB	2.27	0.47
3:CH:63:ARG:NH2	3:CI:188:PHE:HA	2.30	0.47
4:EH:105:LEU:O	4:EH:131:ARG:NH2	2.42	0.47
2:BI:127:PRO:HB2	2:BI:160:ARG:CZ	2.45	0.47
2:BI:135:VAL:HB	2:BJ:193:MET:CE	2.45	0.47
3:CI:105:ILE:HG12	3:CI:162:LEU:HD11	1.97	0.47
3:CJ:105:ILE:HG12	3:CJ:162:LEU:HD11	1.97	0.47
1:AK:522:ARG:HB2	1:AK:526:ARG:HH21	1.80	0.47
4:DK:125:ILE:HG22	4:DK:126:ILE:N	2.29	0.47
3:CM:121:SER:O	3:CM:125:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EO:128:PRO:HA	4:EO:131:ARG:HG3	1.96	0.47
2:BR:101:ARG:HH12	2:BS:42:ALA:CB	2.28	0.47
3:CR:121:SER:O	3:CR:125:ILE:HG12	2.15	0.47
4:FR:96:PRO:HB2	4:FR:108:GLN:HB3	1.96	0.47
1:AS:522:ARG:HB2	1:AS:526:ARG:HH21	1.80	0.47
3:CS:63:ARG:HH22	3:CT:188:PHE:CB	2.27	0.47
4:ES:117:LYS:HZ2	4:FS:92:LEU:HA	1.80	0.47
1:AU:552:ARG:HD2	2:BV:45:ARG:HH12	1.79	0.47
2:BU:58:GLU:O	2:BU:61:GLN:HG2	2.15	0.47
1:AV:535:ARG:O	1:AV:538:GLU:HG3	2.15	0.47
2:BV:124:ASP:OD1	2:BV:124:ASP:N	2.48	0.47
3:CV:101:ASN:ND2	3:CV:103:ASN:HD21	2.13	0.47
2:BW:101:ARG:HH22	2:BX:42:ALA:HB3	1.79	0.47
2:BW:124:ASP:OD1	2:BW:124:ASP:N	2.48	0.47
3:CW:63:ARG:HH22	3:CX:188:PHE:CB	2.27	0.47
3:CW:105:ILE:HG12	3:CW:162:LEU:HD11	1.98	0.47
2:BX:49:ASN:O	2:BX:52:LEU:HG	2.14	0.47
2:BX:124:ASP:N	2:BX:124:ASP:OD1	2.48	0.47
2:BX:128:GLN:NE2	3:CX:132:GLY:O	2.48	0.47
3:CY:275:ILE:HD11	4:DY:64:LEU:HD21	1.96	0.47
2:B1:161:ILE:HG22	2:B2:199:ALA:HB2	1.96	0.46
2:B1:172:LEU:O	2:B1:176:THR:HG23	2.15	0.46
2:B2:124:ASP:OD1	2:B2:124:ASP:N	2.48	0.46
3:C2:107:LEU:HG	3:C2:177:VAL:HG12	1.96	0.46
2:B3:127:PRO:HB2	2:B3:160:ARG:CZ	2.45	0.46
2:B4:124:ASP:N	2:B4:124:ASP:OD1	2.48	0.46
3:C4:96:LEU:HD23	3:C4:186:VAL:HB	1.97	0.46
1:A5:518:LEU:O	1:A5:522:ARG:HG3	2.15	0.46
2:B5:164:PHE:CG	2:B6:193:MET:HE1	2.51	0.46
2:B6:151:GLU:HA	2:B6:154:ARG:NH1	2.30	0.46
2:B6:161:ILE:HG22	2:B7:199:ALA:HB2	1.96	0.46
2:B7:161:ILE:HG22	2:B8:199:ALA:HB2	1.96	0.46
4:F7:109:GLY:HA3	4:F7:122:ILE:HA	1.97	0.46
2:B8:58:GLU:O	2:B8:61:GLN:HG2	2.15	0.46
2:B8:77:LEU:HD21	2:B9:38:SER:HB3	1.96	0.46
3:C9:121:SER:O	3:C9:125:ILE:HG12	2.15	0.46
2:BC:255:ASP:OD2	2:BC:257:GLU:HG2	2.14	0.46
3:CC:96:LEU:HD23	3:CC:186:VAL:HB	1.97	0.46
2:BE:160:ARG:HG2	3:CE:137:PHE:CE2	2.49	0.46
4:DF:73:MET:SD	4:DF:78:LEU:HD23	2.55	0.46
2:BG:124:ASP:N	2:BG:124:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:160:ARG:HG2	3:CG:137:PHE:CE2	2.49	0.46
3:CG:248:ASP:O	3:CG:252:ARG:HG2	2.15	0.46
3:CG:294:ALA:HB3	3:CG:302:LEU:HG	1.97	0.46
4:DG:73:MET:SD	4:DG:78:LEU:HB3	2.55	0.46
4:EG:105:LEU:O	4:EG:131:ARG:NH2	2.44	0.46
4:FG:109:GLY:HA3	4:FG:122:ILE:HA	1.97	0.46
1:AH:526:ARG:O	1:AH:530:GLU:HG2	2.14	0.46
3:CH:105:ILE:HG12	3:CH:162:LEU:HD11	1.97	0.46
2:BI:49:ASN:O	2:BI:52:LEU:HG	2.14	0.46
1:AJ:552:ARG:HD2	2:BK:45:ARG:HH12	1.80	0.46
2:BJ:160:ARG:HG2	3:CJ:137:PHE:CE2	2.50	0.46
3:CJ:96:LEU:HD23	3:CJ:186:VAL:HB	1.96	0.46
4:DL:59:ASP:O	4:DL:59:ASP:OD2	2.32	0.46
4:DN:79:LEU:HG	4:FO:53:ASP:OD1	2.15	0.46
4:FN:96:PRO:HB2	4:FN:108:GLN:HB3	1.97	0.46
2:BO:316:ALA:HA	2:BO:321:MET:HB3	1.97	0.46
4:DP:134:ARG:HA	4:DP:137:ARG:HE	1.78	0.46
4:DQ:73:MET:SD	4:DQ:78:LEU:HD23	2.55	0.46
1:AS:533:SER:HA	1:AS:536:ILE:HG12	1.97	0.46
1:AT:522:ARG:HB2	1:AT:526:ARG:HH21	1.80	0.46
2:BT:151:GLU:HA	2:BT:154:ARG:NH1	2.30	0.46
4:DT:108:GLN:N	4:DT:124:ASP:OD1	2.37	0.46
4:ET:117:LYS:HZ2	4:FT:92:LEU:HA	1.79	0.46
3:CU:181:ARG:NE	3:CU:183:GLU:OE2	2.39	0.46
4:DU:79:LEU:HG	4:FV:53:ASP:OD1	2.14	0.46
3:CV:288:LYS:HZ3	4:DV:118:TYR:H	1.62	0.46
2:BW:158:MET:CE	2:BX:218:VAL:HB	2.45	0.46
4:DW:125:ILE:HG22	4:DW:126:ILE:N	2.29	0.46
4:EY:67:GLU:CD	4:FY:65:THR:HG21	2.34	0.46
1:A1:522:ARG:HB2	1:A1:526:ARG:HH21	1.80	0.46
2:B1:124:ASP:N	2:B1:124:ASP:OD1	2.48	0.46
2:B1:193:MET:CE	2:BY:132:THR:HA	2.45	0.46
2:B2:101:ARG:HH22	2:B3:42:ALA:HB3	1.81	0.46
3:C2:121:SER:O	3:C2:125:ILE:HG12	2.15	0.46
2:B3:77:LEU:HD21	2:B4:38:SER:HB3	1.95	0.46
3:C3:101:ASN:ND2	3:C3:103:ASN:HD21	2.14	0.46
1:A4:526:ARG:O	1:A4:530:GLU:HG2	2.14	0.46
2:B4:151:GLU:HA	2:B4:154:ARG:NH1	2.30	0.46
4:D4:59:ASP:OD2	4:D4:59:ASP:O	2.32	0.46
4:D4:75:ILE:O	4:D4:78:LEU:HG	2.15	0.46
2:B6:124:ASP:N	2:B6:124:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B6:172:LEU:O	2:B6:176:THR:HG23	2.15	0.46
2:B7:139:ARG:NH1	2:B8:201:GLU:OE1	2.39	0.46
2:B7:151:GLU:HA	2:B7:154:ARG:NH1	2.30	0.46
2:B8:93:LEU:HD12	2:B9:35:GLN:OE1	2.15	0.46
3:C8:89:TYR:HD2	3:C8:195:PRO:HA	1.79	0.46
2:B9:58:GLU:O	2:B9:61:GLN:HG2	2.15	0.46
2:BA:101:ARG:HH22	2:BB:42:ALA:HB3	1.79	0.46
2:BB:58:GLU:O	2:BB:61:GLN:HG2	2.15	0.46
3:CB:258:GLU:HA	4:DB:74:THR:HG22	1.96	0.46
1:AC:518:LEU:O	1:AC:522:ARG:HG3	2.14	0.46
2:BC:58:GLU:O	2:BC:61:GLN:HG2	2.15	0.46
1:AD:522:ARG:HB2	1:AD:526:ARG:HH21	1.80	0.46
4:ED:105:LEU:O	4:ED:131:ARG:NH2	2.42	0.46
2:BE:58:GLU:O	2:BE:61:GLN:HG2	2.15	0.46
3:CE:294:ALA:HB3	3:CE:302:LEU:HG	1.98	0.46
1:AG:521:ARG:HA	1:AG:524:ASN:HD21	1.79	0.46
2:BG:127:PRO:HB2	2:BG:160:ARG:CZ	2.45	0.46
3:CG:105:ILE:HG12	3:CG:162:LEU:HD11	1.97	0.46
2:BH:210:GLN:O	2:BH:214:VAL:HG23	2.16	0.46
2:BH:255:ASP:OD2	2:BH:257:GLU:HG2	2.14	0.46
2:BI:58:GLU:O	2:BI:61:GLN:HG2	2.15	0.46
3:CI:292:ILE:HD11	3:CI:315:LEU:HD22	1.96	0.46
3:CJ:285:PRO:HA	4:DJ:117:LYS:NZ	2.30	0.46
4:EJ:130:GLU:HG3	4:EJ:133:ARG:HH22	1.80	0.46
3:CK:101:ASN:ND2	3:CK:103:ASN:HD21	2.13	0.46
4:DK:133:ARG:HH21	4:DK:134:ARG:HG2	1.80	0.46
1:AL:535:ARG:O	1:AL:538:GLU:HG3	2.15	0.46
3:CL:222:SER:HA	3:CL:225:GLU:HG2	1.96	0.46
3:CL:285:PRO:HA	4:DL:117:LYS:NZ	2.31	0.46
4:DM:125:ILE:HG22	4:DM:126:ILE:N	2.29	0.46
1:AN:518:LEU:O	1:AN:522:ARG:HG3	2.15	0.46
2:BN:321:MET:HG3	2:BN:323:ILE:HG23	1.97	0.46
2:BP:155:HIS:HA	2:BP:158:MET:HE2	1.97	0.46
2:BQ:128:GLN:NE2	3:CQ:132:GLY:O	2.48	0.46
2:BQ:203:ILE:HD12	2:BQ:214:VAL:HG11	1.97	0.46
2:BS:151:GLU:HA	2:BS:154:ARG:NH1	2.30	0.46
3:CS:121:SER:O	3:CS:125:ILE:HG12	2.15	0.46
4:DS:125:ILE:HG22	4:DS:126:ILE:N	2.29	0.46
2:BU:131:ALA:O	2:BU:135:VAL:HG22	2.15	0.46
1:AV:518:LEU:O	1:AV:522:ARG:HG3	2.15	0.46
2:BX:151:GLU:HA	2:BX:154:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:69:LEU:HD23	3:CX:77:PRO:HG3	1.98	0.46
3:CX:105:ILE:HG12	3:CX:162:LEU:HD11	1.97	0.46
1:AY:522:ARG:HB2	1:AY:526:ARG:HH21	1.80	0.46
2:B1:151:GLU:HA	2:B1:154:ARG:NH1	2.30	0.46
3:C1:248:ASP:O	3:C1:252:ARG:HG2	2.15	0.46
4:D1:79:LEU:HG	4:F2:53:ASP:OD1	2.15	0.46
2:B2:127:PRO:HB2	2:B2:160:ARG:CZ	2.45	0.46
3:C2:249:ASN:CB	4:F3:125:ILE:HG21	2.40	0.46
2:B3:124:ASP:OD1	2:B3:124:ASP:N	2.48	0.46
2:B3:160:ARG:HG2	3:C3:137:PHE:CE2	2.51	0.46
3:C3:294:ALA:HB3	3:C3:302:LEU:HG	1.97	0.46
4:D3:79:LEU:HG	4:F4:53:ASP:OD1	2.15	0.46
1:A5:535:ARG:O	1:A5:538:GLU:HG3	2.16	0.46
2:B5:316:ALA:HA	2:B5:321:MET:HB3	1.96	0.46
3:C5:105:ILE:HG12	3:C5:162:LEU:HD11	1.97	0.46
1:A6:535:ARG:O	1:A6:538:GLU:HG3	2.16	0.46
3:C6:240:ARG:NH2	3:C6:243:ASP:OD2	2.48	0.46
4:E6:117:LYS:HZ2	4:F6:92:LEU:HA	1.80	0.46
2:B7:127:PRO:HA	2:B7:130:ILE:HD12	1.98	0.46
2:B8:250:LEU:HD23	2:B8:315:LEU:HD12	1.97	0.46
4:F8:97:LEU:HB2	4:F8:109:GLY:O	2.16	0.46
4:E9:77:GLU:O	4:E9:81:LEU:HG	2.14	0.46
2:BA:127:PRO:HB2	2:BA:160:ARG:CZ	2.45	0.46
3:CB:105:ILE:HG12	3:CB:162:LEU:HD11	1.97	0.46
2:BE:255:ASP:OD2	2:BE:257:GLU:HG2	2.14	0.46
2:BF:131:ALA:HB1	2:BF:161:ILE:CD1	2.44	0.46
4:DF:125:ILE:HG22	4:DF:126:ILE:N	2.29	0.46
2:BG:161:ILE:HG22	2:BH:199:ALA:HB2	1.96	0.46
2:BH:124:ASP:N	2:BH:124:ASP:OD1	2.48	0.46
3:CH:121:SER:O	3:CH:125:ILE:HG12	2.15	0.46
1:AI:522:ARG:HB2	1:AI:526:ARG:HH21	1.80	0.46
3:CI:285:PRO:HA	4:DI:117:LYS:NZ	2.31	0.46
3:CJ:135:GLY:HA3	3:CJ:211:LEU:HD21	1.97	0.46
3:CJ:292:ILE:HD11	3:CJ:315:LEU:HD22	1.96	0.46
4:FJ:101:ILE:HG12	4:FJ:106:ILE:HD11	1.98	0.46
2:BK:151:GLU:HA	2:BK:154:ARG:NH1	2.30	0.46
3:CK:121:SER:O	3:CK:125:ILE:HG12	2.15	0.46
4:FK:66:VAL:HG12	4:FK:99:ILE:HG13	1.98	0.46
3:CL:63:ARG:NH2	3:CM:188:PHE:HA	2.30	0.46
3:CL:101:ASN:ND2	3:CL:103:ASN:HD21	2.14	0.46
2:BM:250:LEU:HD23	2:BM:315:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:127:PRO:HA	2:BN:130:ILE:HD12	1.97	0.46
2:BN:131:ALA:HB1	2:BN:161:ILE:CD1	2.45	0.46
3:CN:272:LEU:HD23	4:DN:60:ILE:HB	1.96	0.46
4:DO:125:ILE:HG22	4:DO:126:ILE:N	2.29	0.46
4:EP:130:GLU:HG3	4:EP:133:ARG:HH22	1.81	0.46
2:BQ:58:GLU:O	2:BQ:61:GLN:HG2	2.15	0.46
4:EQ:130:GLU:HG3	4:EQ:133:ARG:HH22	1.80	0.46
2:BR:58:GLU:O	2:BR:61:GLN:HG2	2.15	0.46
2:BR:127:PRO:HB2	2:BR:160:ARG:CZ	2.46	0.46
2:BR:250:LEU:HD23	2:BR:315:LEU:HD12	1.97	0.46
3:CS:288:LYS:HZ3	4:DS:118:TYR:H	1.63	0.46
2:BT:139:ARG:NH1	2:BU:201:GLU:OE1	2.40	0.46
3:CT:63:ARG:NH2	3:CU:188:PHE:HA	2.31	0.46
2:BU:128:GLN:NE2	3:CU:132:GLY:O	2.48	0.46
3:CU:294:ALA:HB3	3:CU:302:LEU:HG	1.98	0.46
4:EX:128:PRO:HA	4:EX:131:ARG:HG3	1.97	0.46
3:CY:121:SER:O	3:CY:125:ILE:HG12	2.15	0.46
3:C1:96:LEU:HD23	3:C1:186:VAL:HB	1.98	0.46
3:C1:294:ALA:HB3	3:C1:302:LEU:HG	1.97	0.46
4:D1:73:MET:SD	4:D1:78:LEU:HB3	2.56	0.46
2:B2:161:ILE:HG22	2:B3:199:ALA:HB2	1.97	0.46
3:C2:101:ASN:ND2	3:C2:103:ASN:HD21	2.13	0.46
4:D2:73:MET:SD	4:D2:78:LEU:HB3	2.56	0.46
2:B5:124:ASP:OD1	2:B5:124:ASP:N	2.48	0.46
2:B5:139:ARG:NH1	2:B6:201:GLU:OE1	2.39	0.46
2:B5:250:LEU:HD23	2:B5:315:LEU:HD12	1.97	0.46
3:C5:89:TYR:HD2	3:C5:195:PRO:HA	1.79	0.46
2:B8:124:ASP:OD1	2:B8:124:ASP:N	2.48	0.46
3:C8:288:LYS:HZ3	4:D8:118:TYR:H	1.64	0.46
2:B9:12:ILE:HD13	2:B9:55:VAL:HG21	1.98	0.46
2:B9:49:ASN:O	2:B9:52:LEU:HG	2.15	0.46
2:B9:131:ALA:HB1	2:B9:161:ILE:CD1	2.44	0.46
1:AA:535:ARG:O	1:AA:538:GLU:HG3	2.16	0.46
2:BA:161:ILE:HG22	2:BB:199:ALA:HB2	1.96	0.46
2:BB:250:LEU:HD23	2:BB:315:LEU:HD12	1.97	0.46
2:BB:255:ASP:OD2	2:BB:257:GLU:HG2	2.14	0.46
3:CB:89:TYR:HD2	3:CB:195:PRO:HA	1.79	0.46
4:DB:125:ILE:HG22	4:DB:126:ILE:N	2.29	0.46
1:AC:522:ARG:HB2	1:AC:526:ARG:HH21	1.80	0.46
1:AC:533:SER:HA	1:AC:536:ILE:HG12	1.97	0.46
4:DC:73:MET:SD	4:DC:78:LEU:HB3	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:128:PRO:HA	4:EC:131:ARG:HG3	1.96	0.46
4:FC:97:LEU:HB2	4:FC:109:GLY:O	2.16	0.46
4:ED:130:GLU:HG3	4:ED:133:ARG:HH22	1.80	0.46
2:BE:151:GLU:HA	2:BE:154:ARG:NH1	2.30	0.46
4:FF:97:LEU:HB2	4:FF:109:GLY:O	2.16	0.46
1:AG:518:LEU:O	1:AG:522:ARG:HG3	2.14	0.46
2:BG:58:GLU:O	2:BG:61:GLN:HG2	2.16	0.46
3:CG:135:GLY:HA3	3:CG:211:LEU:HD21	1.97	0.46
3:CH:181:ARG:NE	3:CH:183:GLU:OE2	2.40	0.46
3:CH:288:LYS:HZ3	4:DH:118:TYR:H	1.63	0.46
2:BI:131:ALA:HB1	2:BI:161:ILE:CD1	2.45	0.46
2:BL:132:THR:O	2:BM:193:MET:HE1	2.15	0.46
3:CL:105:ILE:HG12	3:CL:162:LEU:HD11	1.98	0.46
3:CL:121:SER:O	3:CL:125:ILE:HG12	2.15	0.46
4:DL:125:ILE:HG22	4:DL:126:ILE:N	2.29	0.46
4:EM:130:GLU:HG3	4:EM:133:ARG:HH22	1.81	0.46
2:BO:58:GLU:O	2:BO:61:GLN:HG2	2.15	0.46
3:CO:63:ARG:HH22	3:CP:188:PHE:CB	2.27	0.46
1:AR:535:ARG:O	1:AR:538:GLU:HG3	2.16	0.46
2:BR:77:LEU:HD21	2:BS:38:SER:HB3	1.96	0.46
2:BR:139:ARG:NH1	2:BS:201:GLU:OE1	2.40	0.46
2:BR:160:ARG:HG2	3:CR:137:PHE:CE2	2.51	0.46
3:CT:249:ASN:ND2	4:FU:125:ILE:HG21	2.30	0.46
4:DT:125:ILE:HG22	4:DT:126:ILE:N	2.29	0.46
4:FU:63:LYS:O	4:FU:102:ASN:N	2.37	0.46
2:BV:151:GLU:HA	2:BV:154:ARG:NH1	2.30	0.46
3:CV:105:ILE:HG12	3:CV:162:LEU:HD11	1.98	0.46
3:CV:121:SER:O	3:CV:125:ILE:HG12	2.15	0.46
3:CV:272:LEU:HD23	4:DV:60:ILE:HB	1.97	0.46
2:BW:77:LEU:HD22	2:BX:41:MET:SD	2.55	0.46
4:DW:79:LEU:HG	4:FX:53:ASP:OD1	2.15	0.46
3:C1:121:SER:O	3:C1:125:ILE:HG12	2.15	0.46
2:B2:58:GLU:O	2:B2:61:GLN:HG2	2.15	0.46
3:C2:242:GLU:HB2	3:C2:246:TRP:HD1	1.80	0.46
3:C2:272:LEU:HD23	4:D2:60:ILE:HB	1.97	0.46
2:B7:124:ASP:N	2:B7:124:ASP:OD1	2.48	0.46
4:D7:125:ILE:HG22	4:D7:126:ILE:N	2.29	0.46
2:B8:127:PRO:HA	2:B8:130:ILE:HD12	1.97	0.46
3:C8:121:SER:O	3:C8:125:ILE:HG12	2.15	0.46
2:B9:41:MET:HA	2:B9:44:VAL:HB	1.97	0.46
2:B9:124:ASP:N	2:B9:124:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B9:172:LEU:O	2:B9:176:THR:HG23	2.16	0.46
3:C9:105:ILE:HG12	3:C9:162:LEU:HD11	1.97	0.46
2:BA:124:ASP:N	2:BA:124:ASP:OD1	2.48	0.46
2:BA:255:ASP:OD2	2:BA:257:GLU:HG2	2.14	0.46
2:BA:316:ALA:HA	2:BA:321:MET:HB3	1.96	0.46
4:EA:130:GLU:HG3	4:EA:133:ARG:HH22	1.81	0.46
2:BB:127:PRO:HA	2:BB:130:ILE:HD12	1.97	0.46
3:CB:261:LEU:HD13	4:DB:73:MET:HE2	1.98	0.46
4:FB:104:TYR:OH	4:FB:131:ARG:NH1	2.49	0.46
2:BC:49:ASN:O	2:BC:52:LEU:HG	2.14	0.46
2:BC:124:ASP:OD1	2:BC:124:ASP:N	2.48	0.46
2:BD:58:GLU:O	2:BD:61:GLN:HG2	2.15	0.46
2:BD:124:ASP:N	2:BD:124:ASP:OD1	2.48	0.46
3:CD:63:ARG:NH2	3:CE:188:PHE:HA	2.31	0.46
3:CD:294:ALA:HB3	3:CD:302:LEU:HG	1.97	0.46
1:AF:535:ARG:O	1:AF:538:GLU:HG3	2.16	0.46
4:EF:130:GLU:HG3	4:EF:133:ARG:HH22	1.81	0.46
1:AG:522:ARG:HB2	1:AG:526:ARG:HH21	1.80	0.46
3:CG:296:VAL:HG13	3:CG:301:VAL:HG11	1.98	0.46
2:BH:160:ARG:HG2	3:CH:137:PHE:CE2	2.51	0.46
3:CI:121:SER:O	3:CI:125:ILE:HG12	2.15	0.46
2:BJ:77:LEU:HD21	2:BK:38:SER:HB3	1.98	0.46
2:BJ:126:HIS:O	2:BJ:129:ILE:HG22	2.16	0.46
3:CJ:101:ASN:ND2	3:CJ:103:ASN:HD21	2.13	0.46
3:CJ:220:PRO:O	3:CJ:223:MET:HB2	2.15	0.46
4:EJ:117:LYS:HZ2	4:FJ:92:LEU:HA	1.80	0.46
2:BK:65:GLN:O	2:BL:48:SER:OG	2.18	0.46
1:AL:543:ASP:OD1	1:AL:545:ARG:NH1	2.46	0.46
2:BL:58:GLU:O	2:BL:61:GLN:HG2	2.15	0.46
2:BL:101:ARG:HH12	2:BM:42:ALA:CB	2.28	0.46
3:CM:101:ASN:ND2	3:CM:103:ASN:HD21	2.13	0.46
4:DM:101:ILE:CD1	4:EM:60:ILE:HG12	2.46	0.46
2:BN:160:ARG:HG2	3:CN:137:PHE:CE2	2.50	0.46
3:CN:105:ILE:HG12	3:CN:162:LEU:HD11	1.98	0.46
2:BO:131:ALA:HB1	2:BO:161:ILE:CD1	2.45	0.46
4:EO:98:ASP:HA	4:EO:108:GLN:HA	1.98	0.46
4:FO:97:LEU:HB2	4:FO:109:GLY:O	2.16	0.46
1:AP:535:ARG:NH2	2:BP:60:GLU:HB2	2.27	0.46
2:BP:316:ALA:HA	2:BP:321:MET:HB3	1.97	0.46
3:CP:63:ARG:NH2	3:CQ:188:PHE:HA	2.30	0.46
2:BR:193:MET:O	2:BR:193:MET:SD	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CR:63:ARG:HH22	3:CS:188:PHE:CB	2.27	0.46
3:CR:294:ALA:HB3	3:CR:302:LEU:HG	1.98	0.46
4:ER:58:MET:HA	4:FR:76:LYS:NZ	2.31	0.46
2:BS:127:PRO:HA	2:BS:130:ILE:HD12	1.98	0.46
2:BS:250:LEU:HD23	2:BS:315:LEU:HD12	1.97	0.46
4:ES:130:GLU:HG3	4:ES:133:ARG:HH22	1.81	0.46
2:BT:58:GLU:O	2:BT:61:GLN:HG2	2.15	0.46
2:BT:235:LEU:HD23	2:BT:235:LEU:HA	1.81	0.46
1:AU:533:SER:HA	1:AU:536:ILE:HG12	1.97	0.46
4:DU:125:ILE:HG22	4:DU:126:ILE:N	2.29	0.46
3:CV:69:LEU:HD23	3:CV:77:PRO:HG3	1.98	0.46
4:DV:108:GLN:N	4:DV:124:ASP:OD1	2.38	0.46
4:DW:133:ARG:HH21	4:DW:134:ARG:HG2	1.80	0.46
4:DY:125:ILE:HG22	4:DY:126:ILE:N	2.29	0.46
1:A1:537:ARG:CA	2:B1:21:ARG:HH22	2.24	0.46
2:B1:139:ARG:NH1	2:B2:201:GLU:OE1	2.39	0.46
4:E1:76:LYS:NZ	4:F1:58:MET:HB2	2.31	0.46
2:B2:158:MET:CE	2:B3:218:VAL:HB	2.45	0.46
2:B2:235:LEU:HA	2:B2:235:LEU:HD23	1.81	0.46
4:D2:112:VAL:HG21	4:D2:121:ARG:HH12	1.81	0.46
4:F2:97:LEU:HB2	4:F2:109:GLY:O	2.16	0.46
4:F3:97:LEU:HB2	4:F3:109:GLY:O	2.16	0.46
1:A4:518:LEU:O	1:A4:522:ARG:HG3	2.15	0.46
3:C4:105:ILE:HG12	3:C4:162:LEU:HD11	1.98	0.46
3:C4:121:SER:O	3:C4:125:ILE:HG12	2.15	0.46
3:C4:288:LYS:HZ3	4:D4:118:TYR:H	1.64	0.46
3:C5:296:VAL:HG13	3:C5:301:VAL:HG11	1.97	0.46
3:C6:249:ASN:ND2	4:F7:125:ILE:HD13	2.31	0.46
2:B7:250:LEU:HD23	2:B7:315:LEU:HD12	1.97	0.46
1:A8:518:LEU:O	1:A8:522:ARG:HG3	2.15	0.46
2:BA:127:PRO:HA	2:BA:130:ILE:HD12	1.97	0.46
3:CA:296:VAL:HG21	4:FB:60:ILE:HD12	1.97	0.46
4:FA:97:LEU:HB2	4:FA:109:GLY:O	2.16	0.46
1:AB:552:ARG:HD2	2:BC:45:ARG:HH12	1.80	0.46
2:BB:12:ILE:HD13	2:BB:55:VAL:HG21	1.98	0.46
2:BB:124:ASP:N	2:BB:124:ASP:OD1	2.48	0.46
2:BC:77:LEU:HD21	2:BD:38:SER:HB3	1.96	0.46
2:BC:127:PRO:HA	2:BC:130:ILE:HD12	1.97	0.46
4:EC:117:LYS:HZ2	4:FC:92:LEU:HA	1.80	0.46
1:AE:518:LEU:O	1:AE:522:ARG:HG3	2.16	0.46
2:BE:12:ILE:HD13	2:BE:55:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:222:SER:HA	3:CE:225:GLU:HG2	1.96	0.46
3:CE:248:ASP:O	3:CE:252:ARG:HG2	2.15	0.46
1:AF:522:ARG:HB2	1:AF:526:ARG:HH21	1.80	0.46
2:BF:126:HIS:O	2:BF:129:ILE:HG22	2.16	0.46
2:BF:127:PRO:HB2	2:BF:160:ARG:CZ	2.45	0.46
3:CF:105:ILE:HG12	3:CF:162:LEU:HD11	1.97	0.46
1:AG:533:SER:HA	1:AG:536:ILE:HG12	1.96	0.46
2:BH:58:GLU:O	2:BH:61:GLN:HG2	2.15	0.46
4:EI:76:LYS:NZ	4:FI:58:MET:HB2	2.31	0.46
3:CJ:63:ARG:HH22	3:CK:188:PHE:CB	2.29	0.46
2:BK:250:LEU:HD23	2:BK:315:LEU:HD12	1.97	0.46
4:FK:96:PRO:HB2	4:FK:108:GLN:HB3	1.97	0.46
3:CL:135:GLY:HA3	3:CL:211:LEU:HD21	1.98	0.46
1:AM:533:SER:HA	1:AM:536:ILE:HG12	1.97	0.46
4:DN:125:ILE:HG22	4:DN:126:ILE:N	2.29	0.46
2:BO:101:ARG:HH12	2:BP:42:ALA:CB	2.29	0.46
2:BO:161:ILE:HG22	2:BP:199:ALA:HB2	1.97	0.46
3:CO:69:LEU:HD23	3:CO:77:PRO:HG3	1.98	0.46
2:BP:128:GLN:NE2	3:CP:132:GLY:O	2.49	0.46
4:FQ:97:LEU:HB2	4:FQ:109:GLY:O	2.15	0.46
1:AS:552:ARG:HD2	2:BT:45:ARG:HH12	1.80	0.46
4:DS:78:LEU:HA	4:DS:81:LEU:HG	1.97	0.46
4:DS:112:VAL:HG21	4:DS:121:ARG:HH12	1.81	0.46
4:EU:130:GLU:HG3	4:EU:133:ARG:HH22	1.81	0.46
1:AW:533:SER:HA	1:AW:536:ILE:HG12	1.97	0.46
2:BW:161:ILE:HG22	2:BX:199:ALA:HB2	1.97	0.46
3:CX:294:ALA:HB3	3:CX:302:LEU:HG	1.98	0.46
4:DX:125:ILE:HG22	4:DX:126:ILE:N	2.29	0.46
1:AY:518:LEU:O	1:AY:522:ARG:HG3	2.15	0.46
2:BY:49:ASN:O	2:BY:52:LEU:HG	2.15	0.46
2:BY:126:HIS:O	2:BY:129:ILE:HG22	2.15	0.46
3:C1:135:GLY:HA3	3:C1:211:LEU:HD21	1.97	0.46
3:C2:294:ALA:O	3:C2:301:VAL:HG22	2.16	0.46
2:B3:126:HIS:O	2:B3:129:ILE:HG22	2.16	0.46
2:B3:250:LEU:HD23	2:B3:315:LEU:HD12	1.97	0.46
3:C3:121:SER:O	3:C3:125:ILE:HG12	2.15	0.46
4:D3:125:ILE:HG22	4:D3:126:ILE:N	2.29	0.46
2:B5:161:ILE:HG22	2:B6:199:ALA:HB2	1.96	0.46
3:C5:240:ARG:NH2	3:C5:243:ASP:OD2	2.48	0.46
3:C6:63:ARG:HH22	3:C7:188:PHE:CB	2.28	0.46
3:C6:294:ALA:HB3	3:C6:302:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D6:79:LEU:HG	4:F7:53:ASP:OD1	2.15	0.46
2:B7:126:HIS:O	2:B7:129:ILE:HG22	2.16	0.46
2:B8:126:HIS:O	2:B8:129:ILE:HG22	2.16	0.46
3:C8:69:LEU:HD23	3:C8:77:PRO:HG3	1.97	0.46
2:B9:126:HIS:O	2:B9:129:ILE:HG22	2.16	0.46
3:C9:63:ARG:NH2	3:CA:188:PHE:HA	2.31	0.46
1:AA:522:ARG:HB2	1:AA:526:ARG:HH21	1.80	0.46
2:BA:131:ALA:HB1	2:BA:161:ILE:CD1	2.45	0.46
2:BA:172:LEU:O	2:BA:176:THR:HG23	2.16	0.46
2:BA:250:LEU:HD23	2:BA:315:LEU:HD12	1.97	0.46
4:DC:73:MET:SD	4:DC:78:LEU:HD23	2.56	0.46
4:DD:108:GLN:N	4:DD:124:ASP:OD1	2.38	0.46
4:FD:109:GLY:HA3	4:FD:122:ILE:HA	1.98	0.46
3:CE:96:LEU:HD23	3:CE:186:VAL:HB	1.97	0.46
2:BF:107:ILE:HD11	2:BF:136:HIS:NE2	2.30	0.46
2:BF:161:ILE:HG22	2:BG:199:ALA:HB2	1.97	0.46
2:BF:255:ASP:OD2	2:BF:257:GLU:HG2	2.14	0.46
3:CF:268:ILE:HG23	3:CF:286:ILE:HD13	1.98	0.46
3:CG:275:ILE:HD11	4:DG:64:LEU:HD21	1.97	0.46
2:BH:327:GLU:OE1	2:BH:330:TYR:OH	2.29	0.46
4:DH:112:VAL:HG21	4:DH:121:ARG:HH12	1.81	0.46
2:BI:124:ASP:OD1	2:BI:124:ASP:N	2.48	0.46
2:BI:127:PRO:HA	2:BI:130:ILE:HD12	1.97	0.46
3:CI:96:LEU:HD23	3:CI:186:VAL:HB	1.96	0.46
3:CI:135:GLY:HA3	3:CI:211:LEU:HD21	1.97	0.46
3:CI:288:LYS:NZ	4:DI:116:ASP:O	2.42	0.46
4:EI:130:GLU:HG3	4:EI:133:ARG:HH22	1.81	0.46
1:AK:533:SER:HA	1:AK:536:ILE:HG12	1.97	0.46
2:BK:160:ARG:HG2	3:CK:137:PHE:CE2	2.50	0.46
4:EK:98:ASP:HA	4:EK:108:GLN:HA	1.98	0.46
4:FL:97:LEU:HB2	4:FL:109:GLY:O	2.16	0.46
1:AM:522:ARG:HB2	1:AM:526:ARG:HH21	1.80	0.46
1:AQ:535:ARG:HH22	2:BQ:60:GLU:HB2	1.81	0.46
4:ER:61:PRO:HB2	4:FR:72:ARG:HH22	1.80	0.46
4:ER:130:GLU:HG3	4:ER:133:ARG:HH22	1.81	0.46
4:ES:105:LEU:O	4:ES:131:ARG:NH2	2.44	0.46
4:FS:54:ILE:HG13	4:FS:55:ASP:H	1.81	0.46
1:AU:532:MET:HB2	1:AU:535:ARG:HE	1.81	0.46
2:BU:161:ILE:HG22	2:BV:199:ALA:HB2	1.98	0.46
2:BW:321:MET:HG3	2:BW:323:ILE:HG23	1.98	0.46
1:AX:522:ARG:HB2	1:AX:526:ARG:HH21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:135:GLY:HA3	3:CX:211:LEU:HD21	1.97	0.46
2:B2:49:ASN:O	2:B2:52:LEU:HG	2.15	0.46
2:B3:114:GLU:HG2	2:B3:115:PRO:HD2	1.98	0.46
2:B4:126:HIS:O	2:B4:130:ILE:HG13	2.16	0.46
3:C4:101:ASN:ND2	3:C4:103:ASN:HD21	2.13	0.46
3:C5:63:ARG:NH2	3:C6:188:PHE:HA	2.30	0.46
3:C5:121:SER:O	3:C5:125:ILE:HG12	2.15	0.46
3:C5:302:LEU:HB3	3:C5:320:LEU:HG	1.96	0.46
4:E5:130:GLU:HG3	4:E5:133:ARG:HH22	1.80	0.46
2:B6:126:HIS:O	2:B6:130:ILE:HG13	2.16	0.46
3:C7:105:ILE:HG12	3:C7:162:LEU:HD11	1.98	0.46
3:C7:258:GLU:O	4:F8:102:ASN:ND2	2.49	0.46
2:B8:12:ILE:HD13	2:B8:55:VAL:HG21	1.98	0.46
2:BA:126:HIS:O	2:BA:129:ILE:HG22	2.16	0.46
4:EA:74:THR:OG1	4:EA:75:ILE:N	2.47	0.46
2:BB:131:ALA:HB1	2:BB:161:ILE:CD1	2.45	0.46
3:CB:63:ARG:HH22	3:CC:188:PHE:CB	2.29	0.46
4:EC:130:GLU:HG3	4:EC:133:ARG:HH22	1.81	0.46
3:CD:135:GLY:HA3	3:CD:211:LEU:HD21	1.97	0.46
2:BE:126:HIS:O	2:BE:129:ILE:HG22	2.16	0.46
2:BE:172:LEU:O	2:BE:176:THR:HG23	2.16	0.46
2:BE:250:LEU:HD23	2:BE:315:LEU:HD12	1.97	0.46
3:CE:135:GLY:HA3	3:CE:211:LEU:HD21	1.97	0.46
3:CE:258:GLU:HA	4:DE:74:THR:HG22	1.97	0.46
4:EG:76:LYS:HE2	4:FG:58:MET:HE3	1.98	0.46
2:BH:194:GLY:O	2:BH:198:THR:OG1	2.29	0.46
2:BI:101:ARG:HH12	2:BJ:42:ALA:CB	2.29	0.46
2:BJ:158:MET:SD	2:BK:214:VAL:HG13	2.56	0.46
4:EJ:67:GLU:CD	4:FJ:65:THR:HG21	2.36	0.46
4:FJ:97:LEU:HB2	4:FJ:109:GLY:O	2.16	0.46
2:BK:126:HIS:O	2:BK:129:ILE:HG22	2.16	0.46
3:CK:240:ARG:NH2	3:CK:243:ASP:OD2	2.48	0.46
2:BL:127:PRO:HB2	2:BL:160:ARG:CZ	2.45	0.46
2:BM:128:GLN:NE2	3:CM:132:GLY:O	2.49	0.46
4:FM:97:LEU:HB2	4:FM:109:GLY:O	2.15	0.46
3:CO:294:ALA:HB3	3:CO:302:LEU:HG	1.98	0.46
2:BQ:250:LEU:HD23	2:BQ:315:LEU:HD12	1.97	0.46
2:BS:73:ALA:HB1	2:BT:42:ALA:HA	1.98	0.46
3:CU:105:ILE:HG12	3:CU:162:LEU:HD11	1.98	0.46
2:BW:101:ARG:HH12	2:BX:42:ALA:CB	2.29	0.46
3:CW:121:SER:O	3:CW:125:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:15:MET:HE1	2:BY:70:ASN:HA	1.96	0.46
2:B1:42:ALA:CB	2:BY:101:ARG:HH12	2.28	0.46
1:A2:522:ARG:HB2	1:A2:526:ARG:HH21	1.80	0.46
3:C2:220:PRO:O	3:C2:223:MET:HB2	2.15	0.46
3:C2:288:LYS:NZ	4:D2:116:ASP:O	2.42	0.46
3:C3:135:GLY:HA3	3:C3:211:LEU:HD21	1.97	0.46
3:C4:135:GLY:HA3	3:C4:211:LEU:HD21	1.97	0.46
4:E4:130:GLU:HG3	4:E4:133:ARG:HH22	1.81	0.46
2:B5:126:HIS:O	2:B5:129:ILE:HG22	2.16	0.46
2:B6:68:ALA:HB2	2:B7:47:ILE:O	2.16	0.46
4:F7:97:LEU:HB2	4:F7:109:GLY:O	2.15	0.46
4:F8:54:ILE:HG13	4:F8:55:ASP:H	1.81	0.46
1:A9:535:ARG:O	1:A9:538:GLU:HG3	2.16	0.46
2:B9:233:MET:O	2:B9:313:ARG:NH2	2.49	0.46
3:C9:294:ALA:HB3	3:C9:302:LEU:HG	1.97	0.46
3:CA:256:HIS:CE1	4:FB:104:TYR:CZ	3.00	0.46
2:BB:126:HIS:O	2:BB:129:ILE:HG22	2.16	0.46
1:AC:537:ARG:CA	2:BC:21:ARG:HH22	2.24	0.46
2:BD:127:PRO:HA	2:BD:130:ILE:HD12	1.97	0.46
4:DD:112:VAL:HG21	4:DD:121:ARG:HH12	1.81	0.46
4:FD:97:LEU:HB2	4:FD:109:GLY:O	2.15	0.46
2:BE:101:ARG:HH12	2:BF:42:ALA:CB	2.29	0.46
2:BF:160:ARG:HG2	3:CF:137:PHE:CE2	2.51	0.46
2:BG:151:GLU:HA	2:BG:154:ARG:NH1	2.31	0.46
2:BH:151:GLU:HA	2:BH:154:ARG:NH1	2.30	0.46
3:CH:96:LEU:HD23	3:CH:186:VAL:HB	1.97	0.46
1:AI:532:MET:O	1:AI:535:ARG:HG3	2.16	0.46
3:CJ:69:LEU:HD23	3:CJ:77:PRO:HG3	1.97	0.46
1:AK:543:ASP:OD1	1:AK:545:ARG:NH1	2.46	0.46
4:DK:133:ARG:HH22	4:DK:137:ARG:HD3	1.81	0.46
4:FK:97:LEU:HB2	4:FK:109:GLY:O	2.16	0.46
4:DL:75:ILE:O	4:DL:78:LEU:HG	2.16	0.46
4:DM:108:GLN:N	4:DM:124:ASP:OD1	2.38	0.46
4:EN:128:PRO:HA	4:EN:131:ARG:HG3	1.96	0.46
1:AO:552:ARG:HD2	2:BP:45:ARG:HH12	1.81	0.46
3:CR:63:ARG:NH2	3:CS:188:PHE:HA	2.30	0.46
4:FS:107:ALA:HA	4:FS:126:ILE:HG12	1.97	0.46
3:CT:105:ILE:HG12	3:CT:162:LEU:HD11	1.98	0.46
4:ET:128:PRO:HA	4:ET:131:ARG:HG3	1.96	0.46
3:CU:246:TRP:CD1	4:EV:82:THR:HA	2.51	0.46
3:CX:121:SER:O	3:CX:125:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:535:ARG:O	1:AY:538:GLU:HG3	2.16	0.46
2:B1:111:ASN:OD1	2:B1:137:LEU:HB3	2.16	0.46
4:E1:126:ILE:HG13	4:E1:127:THR:H	1.79	0.46
3:C2:135:GLY:HA3	3:C2:211:LEU:HD21	1.98	0.46
2:B3:161:ILE:HG22	2:B4:199:ALA:HB2	1.96	0.46
2:B4:161:ILE:HG22	2:B5:199:ALA:HB2	1.96	0.46
2:B6:126:HIS:O	2:B6:129:ILE:HG22	2.16	0.46
3:C7:121:SER:O	3:C7:125:ILE:HG12	2.15	0.46
3:C8:272:LEU:HD23	4:D8:60:ILE:HB	1.97	0.46
3:CA:105:ILE:HG12	3:CA:162:LEU:HD11	1.97	0.46
3:CA:258:GLU:CD	4:DA:73:MET:H	2.20	0.46
4:DA:112:VAL:HG21	4:DA:121:ARG:HH12	1.81	0.46
3:CB:135:GLY:HA3	3:CB:211:LEU:HD21	1.97	0.46
4:EB:76:LYS:NZ	4:FB:58:MET:HB2	2.31	0.46
1:AC:553:GLN:NE2	1:AC:557:ASN:OD1	2.49	0.46
2:BC:126:HIS:O	2:BC:129:ILE:HG22	2.16	0.46
4:EC:73:MET:HE1	4:EC:78:LEU:CG	2.35	0.46
2:BD:126:HIS:O	2:BD:129:ILE:HG22	2.16	0.46
2:BD:250:LEU:HD23	2:BD:315:LEU:HD12	1.97	0.46
2:BF:250:LEU:HD23	2:BF:315:LEU:HD12	1.97	0.46
2:BG:127:PRO:HA	2:BG:130:ILE:HD12	1.97	0.46
4:EG:64:LEU:CB	4:EG:101:ILE:HG13	2.46	0.46
2:BH:316:ALA:HA	2:BH:321:MET:HB3	1.97	0.46
4:DI:125:ILE:HG22	4:DI:126:ILE:N	2.29	0.46
1:AJ:533:SER:HA	1:AJ:536:ILE:HG12	1.97	0.46
2:BJ:124:ASP:N	2:BJ:124:ASP:OD1	2.48	0.46
2:BJ:129:ILE:HA	2:BJ:132:THR:HG22	1.98	0.46
4:DJ:125:ILE:HG22	4:DJ:126:ILE:N	2.29	0.46
3:CK:105:ILE:HG12	3:CK:162:LEU:HD11	1.98	0.46
3:CK:250:LEU:HD21	4:EL:79:LEU:HD13	1.98	0.46
1:AL:521:ARG:HA	1:AL:524:ASN:ND2	2.31	0.46
3:CL:294:ALA:O	3:CL:301:VAL:HG22	2.15	0.46
4:DL:71:THR:HG23	4:DL:73:MET:HB2	1.97	0.46
3:CM:135:GLY:HA3	3:CM:211:LEU:HD21	1.98	0.46
4:DN:112:VAL:HG21	4:DN:121:ARG:HH12	1.81	0.46
4:FN:66:VAL:HG12	4:FN:99:ILE:HG13	1.98	0.46
2:BO:160:ARG:HG2	3:CO:137:PHE:CE2	2.50	0.46
3:CO:135:GLY:HA3	3:CO:211:LEU:HD21	1.98	0.46
2:BP:77:LEU:HD22	2:BQ:41:MET:SD	2.56	0.46
3:CR:101:ASN:ND2	3:CR:103:ASN:HD21	2.14	0.46
2:BT:114:GLU:HG2	2:BT:115:PRO:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BV:12:ILE:HD13	2:BV:55:VAL:HG21	1.97	0.46
3:CV:135:GLY:HA3	3:CV:211:LEU:HD21	1.97	0.46
3:CV:153:VAL:O	3:CV:157:MET:HE2	2.16	0.46
3:CW:135:GLY:HA3	3:CW:211:LEU:HD21	1.97	0.46
3:CX:63:ARG:HH22	3:CY:188:PHE:CB	2.29	0.46
3:CX:258:GLU:CD	4:DX:72:ARG:HE	2.19	0.46
4:DX:112:VAL:HG21	4:DX:121:ARG:HH12	1.81	0.46
2:BY:127:PRO:HB2	2:BY:160:ARG:CZ	2.46	0.46
3:CY:258:GLU:HA	4:DY:74:THR:HG22	1.97	0.46
4:FY:97:LEU:HB2	4:FY:109:GLY:O	2.16	0.46
3:C1:255:GLN:OE1	3:C1:256:HIS:ND1	2.49	0.45
2:B2:321:MET:HG3	2:B2:323:ILE:HG23	1.98	0.45
3:C3:240:ARG:NH2	3:C3:243:ASP:OD2	2.49	0.45
1:A4:533:SER:HA	1:A4:536:ILE:HG12	1.98	0.45
1:A4:549:LEU:CD1	2:B5:46:GLN:H	2.28	0.45
3:C4:258:GLU:CD	4:D4:72:ARG:HE	2.19	0.45
3:C6:101:ASN:HD21	3:C6:103:ASN:HD21	1.64	0.45
3:C6:121:SER:O	3:C6:125:ILE:HG12	2.15	0.45
1:A8:522:ARG:HB2	1:A8:526:ARG:HH21	1.80	0.45
4:E9:130:GLU:HG3	4:E9:133:ARG:HH22	1.81	0.45
4:DB:112:VAL:HG21	4:DB:121:ARG:HH12	1.81	0.45
3:CC:288:LYS:HZ3	4:DC:118:TYR:H	1.65	0.45
4:DD:101:ILE:CD1	4:ED:60:ILE:HG12	2.46	0.45
3:CE:101:ASN:ND2	3:CE:103:ASN:HD21	2.14	0.45
4:EE:76:LYS:HE2	4:FE:58:MET:HE3	1.98	0.45
3:CF:63:ARG:HH22	3:CG:188:PHE:CB	2.29	0.45
4:EF:58:MET:HA	4:FF:76:LYS:NZ	2.31	0.45
2:BG:60:GLU:HG2	1:AH:522:ARG:HH12	1.80	0.45
4:FG:53:ASP:OD2	4:FG:56:LEU:HB3	2.16	0.45
1:AH:537:ARG:CA	2:BH:21:ARG:HH22	2.24	0.45
1:AH:552:ARG:HD2	2:BI:45:ARG:HH12	1.81	0.45
2:BI:126:HIS:O	2:BI:129:ILE:HG22	2.16	0.45
4:EI:73:MET:HE1	4:EI:78:LEU:CG	2.35	0.45
4:EI:105:LEU:O	4:EI:131:ARG:NH2	2.44	0.45
2:BK:58:GLU:O	2:BK:61:GLN:HG2	2.16	0.45
2:BL:160:ARG:HG2	3:CL:137:PHE:CE2	2.51	0.45
4:EL:130:GLU:HG3	4:EL:133:ARG:HH22	1.81	0.45
2:BM:134:LEU:HD21	2:BM:146:LEU:HD12	1.98	0.45
4:EM:98:ASP:HA	4:EM:108:GLN:HA	1.98	0.45
1:AN:535:ARG:O	1:AN:538:GLU:HG3	2.16	0.45
2:BQ:126:HIS:O	2:BQ:129:ILE:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DQ:108:GLN:N	4:DQ:124:ASP:OD1	2.37	0.45
4:DR:112:VAL:HG21	4:DR:121:ARG:HH12	1.81	0.45
3:CS:294:ALA:O	3:CS:301:VAL:HG22	2.16	0.45
4:FS:105:LEU:HD23	4:FS:131:ARG:HG3	1.98	0.45
2:BT:161:ILE:HG22	2:BU:199:ALA:HB2	1.98	0.45
4:DT:112:VAL:HG21	4:DT:121:ARG:HH12	1.81	0.45
1:AU:522:ARG:HB2	1:AU:526:ARG:HH21	1.80	0.45
4:FU:66:VAL:HG12	4:FU:99:ILE:HG13	1.98	0.45
4:EV:130:GLU:HG3	4:EV:133:ARG:HH22	1.81	0.45
4:DW:112:VAL:HG21	4:DW:121:ARG:HH12	1.81	0.45
2:BX:126:HIS:O	2:BX:129:ILE:HG22	2.16	0.45
2:BY:250:LEU:HD23	2:BY:315:LEU:HD12	1.97	0.45
2:B1:126:HIS:O	2:B1:129:ILE:HG22	2.16	0.45
4:E1:130:GLU:HG3	4:E1:133:ARG:HH22	1.81	0.45
4:D3:112:VAL:HG21	4:D3:121:ARG:HH12	1.81	0.45
1:A4:522:ARG:HB2	1:A4:526:ARG:HH21	1.80	0.45
2:B6:158:MET:HE1	2:B7:218:VAL:HB	1.98	0.45
3:C7:69:LEU:HD23	3:C7:77:PRO:HG3	1.98	0.45
4:E7:130:GLU:HG3	4:E7:133:ARG:HH22	1.81	0.45
2:B8:151:GLU:HA	2:B8:154:ARG:NH1	2.32	0.45
2:BC:131:ALA:HB1	2:BC:161:ILE:CD1	2.46	0.45
3:CC:285:PRO:HA	4:DC:117:LYS:NZ	2.31	0.45
2:BE:12:ILE:HG12	2:BE:47:ILE:HG21	1.98	0.45
3:CE:105:ILE:HG12	3:CE:162:LEU:HD11	1.98	0.45
4:EE:58:MET:HA	4:FE:76:LYS:NZ	2.32	0.45
3:CH:107:LEU:HG	3:CH:177:VAL:HG12	1.98	0.45
3:CH:135:GLY:HA3	3:CH:211:LEU:HD21	1.98	0.45
1:AL:537:ARG:CA	2:BL:21:ARG:HH22	2.24	0.45
2:BL:126:HIS:O	2:BL:129:ILE:HG22	2.16	0.45
4:DM:133:ARG:HH21	4:DM:134:ARG:HG2	1.82	0.45
2:BN:58:GLU:O	2:BN:61:GLN:HG2	2.15	0.45
3:CP:296:VAL:HG23	4:FQ:61:PRO:HG2	1.98	0.45
4:FQ:57:ILE:HG13	4:FQ:60:ILE:HB	1.97	0.45
2:BR:126:HIS:O	2:BR:129:ILE:HG22	2.16	0.45
2:BT:77:LEU:HD21	2:BU:38:SER:HB3	1.98	0.45
3:CT:121:SER:O	3:CT:125:ILE:HG12	2.15	0.45
3:CU:121:SER:O	3:CU:125:ILE:HG12	2.15	0.45
4:DU:112:VAL:HG21	4:DU:121:ARG:HH12	1.81	0.45
4:FU:101:ILE:HG12	4:FU:106:ILE:HD11	1.98	0.45
1:AW:522:ARG:HB2	1:AW:526:ARG:HH21	1.80	0.45
4:EW:117:LYS:HZ2	4:FW:92:LEU:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:535:ARG:O	1:AX:538:GLU:HG3	2.16	0.45
3:CX:268:ILE:HG23	3:CX:286:ILE:HD13	1.99	0.45
2:BY:172:LEU:O	2:BY:176:THR:HG23	2.16	0.45
2:B1:42:ALA:HB3	2:BY:101:ARG:HH22	1.81	0.45
4:D1:112:VAL:HG21	4:D1:121:ARG:HH12	1.81	0.45
2:B2:126:HIS:O	2:B2:129:ILE:HG22	2.16	0.45
3:C2:268:ILE:HG23	3:C2:286:ILE:HD13	1.99	0.45
4:D2:125:ILE:HG22	4:D2:126:ILE:N	2.29	0.45
4:E2:130:GLU:HG3	4:E2:133:ARG:HH22	1.81	0.45
2:B4:101:ARG:HH12	2:B5:42:ALA:CB	2.29	0.45
3:C5:107:LEU:HG	3:C5:177:VAL:HG12	1.98	0.45
4:F5:64:LEU:HA	4:F5:101:ILE:HA	1.98	0.45
3:C6:135:GLY:HA3	3:C6:211:LEU:HD21	1.97	0.45
4:F6:97:LEU:HB2	4:F6:109:GLY:O	2.17	0.45
2:B7:58:GLU:O	2:B7:61:GLN:HG2	2.16	0.45
3:C7:288:LYS:NZ	4:D7:116:ASP:O	2.44	0.45
3:CA:101:ASN:ND2	3:CA:103:ASN:HD21	2.14	0.45
2:BB:172:LEU:O	2:BB:176:THR:HG23	2.16	0.45
3:CB:69:LEU:HD23	3:CB:77:PRO:HG3	1.97	0.45
4:DB:133:ARG:HH21	4:DB:134:ARG:HG2	1.82	0.45
3:CC:69:LEU:HD23	3:CC:77:PRO:HG3	1.98	0.45
3:CD:181:ARG:NE	3:CD:183:GLU:OE2	2.38	0.45
3:CD:268:ILE:HG23	3:CD:286:ILE:HD13	1.99	0.45
4:FE:97:LEU:HB2	4:FE:109:GLY:O	2.16	0.45
2:BF:58:GLU:O	2:BF:61:GLN:HG2	2.15	0.45
2:BH:131:ALA:HB1	2:BH:161:ILE:CD1	2.45	0.45
3:CH:272:LEU:HD23	4:DH:60:ILE:HB	1.97	0.45
1:AI:537:ARG:CA	2:BI:21:ARG:HH22	2.24	0.45
2:BI:129:ILE:HA	2:BI:132:THR:HG22	1.99	0.45
2:BI:160:ARG:HG2	3:CI:137:PHE:CE2	2.51	0.45
2:BJ:77:LEU:HD22	2:BK:41:MET:SD	2.56	0.45
2:BJ:127:PRO:HA	2:BJ:130:ILE:HD12	1.98	0.45
2:BK:124:ASP:N	2:BK:124:ASP:OD1	2.48	0.45
3:CK:69:LEU:HD23	3:CK:77:PRO:HG3	1.98	0.45
4:EK:130:GLU:HG3	4:EK:133:ARG:HH22	1.82	0.45
3:CM:63:ARG:NH2	3:CN:188:PHE:HA	2.32	0.45
3:CN:249:ASN:HD22	4:FO:125:ILE:HG21	1.81	0.45
4:EN:130:GLU:HG3	4:EN:133:ARG:HH22	1.81	0.45
3:CO:296:VAL:HG13	3:CO:301:VAL:HG11	1.98	0.45
2:BP:250:LEU:HD23	2:BP:315:LEU:HD12	1.97	0.45
2:BQ:158:MET:CE	2:BR:218:VAL:HB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CQ:101:ASN:HD21	3:CQ:103:ASN:HD21	1.64	0.45
1:AR:537:ARG:CA	2:BR:21:ARG:HH22	2.24	0.45
2:BR:126:HIS:O	2:BR:130:ILE:HG13	2.16	0.45
3:CR:296:VAL:HG13	3:CR:301:VAL:HG11	1.98	0.45
3:CT:242:GLU:HB2	4:EU:83:GLN:OE1	2.17	0.45
3:CT:268:ILE:HG23	3:CT:286:ILE:HD13	1.98	0.45
4:ET:76:LYS:NZ	4:FT:58:MET:HB2	2.31	0.45
4:FT:97:LEU:HB2	4:FT:109:GLY:O	2.17	0.45
2:BV:250:LEU:HD23	2:BV:315:LEU:HD12	1.97	0.45
1:AW:535:ARG:O	1:AW:538:GLU:HG3	2.16	0.45
3:CW:268:ILE:HG23	3:CW:286:ILE:HD13	1.99	0.45
4:EW:67:GLU:CD	4:FW:65:THR:HG21	2.37	0.45
4:EW:130:GLU:HG3	4:EW:133:ARG:HH22	1.81	0.45
4:EX:130:GLU:HG3	4:EX:133:ARG:HH22	1.81	0.45
3:C1:268:ILE:HG23	3:C1:286:ILE:HD13	1.99	0.45
2:B2:107:ILE:HD11	2:B2:136:HIS:NE2	2.31	0.45
2:B2:127:PRO:HA	2:B2:130:ILE:HD12	1.99	0.45
3:C2:63:ARG:NH2	3:C3:188:PHE:HA	2.32	0.45
3:C4:63:ARG:NH2	3:C5:188:PHE:HA	2.31	0.45
3:C4:285:PRO:HA	4:D4:117:LYS:NZ	2.30	0.45
2:B5:77:LEU:HD21	2:B6:38:SER:HB3	1.98	0.45
3:C5:135:GLY:HA3	3:C5:211:LEU:HD21	1.98	0.45
1:A6:522:ARG:HB2	1:A6:526:ARG:HH21	1.80	0.45
2:B6:12:ILE:HD13	2:B6:55:VAL:HG21	1.98	0.45
2:B7:172:LEU:O	2:B7:176:THR:HG23	2.16	0.45
4:E9:74:THR:OG1	4:E9:75:ILE:N	2.49	0.45
2:BA:58:GLU:O	2:BA:61:GLN:HG2	2.15	0.45
3:CA:135:GLY:HA3	3:CA:211:LEU:HD21	1.97	0.45
1:AD:533:SER:HA	1:AD:536:ILE:HG12	1.98	0.45
3:CD:96:LEU:HD23	3:CD:186:VAL:HB	1.98	0.45
4:EE:61:PRO:HB2	4:FE:72:ARG:HH22	1.81	0.45
4:DF:112:VAL:HG21	4:DF:121:ARG:HH12	1.81	0.45
2:BG:126:HIS:O	2:BG:129:ILE:HG22	2.16	0.45
1:AH:533:SER:HA	1:AH:536:ILE:HG12	1.97	0.45
2:BJ:41:MET:O	2:BJ:44:VAL:HG12	2.15	0.45
2:BL:321:MET:HG3	2:BL:323:ILE:HG23	1.99	0.45
3:CN:63:ARG:HH22	3:CO:188:PHE:CB	2.30	0.45
3:CN:135:GLY:HA3	3:CN:211:LEU:HD21	1.97	0.45
2:BO:114:GLU:HG2	2:BO:115:PRO:HD2	1.98	0.45
2:BO:127:PRO:HA	2:BO:130:ILE:HD12	1.98	0.45
3:CO:258:GLU:CD	4:DO:73:MET:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FO:105:LEU:HD23	4:FO:131:ARG:HG3	1.99	0.45
1:AP:535:ARG:O	1:AP:538:GLU:HG3	2.17	0.45
2:BP:158:MET:SD	2:BQ:214:VAL:HA	2.56	0.45
2:BR:225:LEU:O	2:BR:229:ILE:HG12	2.15	0.45
3:CR:258:GLU:CD	4:DR:73:MET:H	2.19	0.45
4:FR:97:LEU:HB2	4:FR:109:GLY:O	2.16	0.45
4:ES:98:ASP:HA	4:ES:108:GLN:HA	1.99	0.45
3:CT:219:LEU:HD12	3:CT:223:MET:HG3	1.98	0.45
2:BU:111:ASN:OD1	2:BU:137:LEU:HB3	2.17	0.45
2:BU:126:HIS:O	2:BU:129:ILE:HG22	2.15	0.45
3:CU:63:ARG:NH2	3:CV:188:PHE:HA	2.32	0.45
3:CU:135:GLY:HA3	3:CU:211:LEU:HD21	1.98	0.45
3:CW:69:LEU:HD23	3:CW:77:PRO:HG3	1.99	0.45
3:CX:288:LYS:NZ	4:DX:116:ASP:O	2.43	0.45
3:CY:268:ILE:HG23	3:CY:286:ILE:HD13	1.99	0.45
1:A1:535:ARG:O	1:A1:538:GLU:HG3	2.17	0.45
3:C1:238:ASN:HB3	4:E2:83:GLN:HE21	1.81	0.45
3:C3:268:ILE:HG23	3:C3:286:ILE:HD13	1.99	0.45
1:A4:535:ARG:NH2	2:B4:60:GLU:HB2	2.31	0.45
4:E5:83:GLN:NE2	4:F5:123:THR:O	2.46	0.45
2:B6:127:PRO:HA	2:B6:130:ILE:HD12	1.99	0.45
4:D6:125:ILE:HG22	4:D6:126:ILE:N	2.29	0.45
3:C7:135:GLY:HA3	3:C7:211:LEU:HD21	1.97	0.45
3:C7:294:ALA:HB3	3:C7:302:LEU:HG	1.98	0.45
4:D7:108:GLN:N	4:D7:124:ASP:OD1	2.37	0.45
4:E8:77:GLU:O	4:E8:81:LEU:HG	2.16	0.45
2:BA:208:THR:O	2:BA:211:GLU:HG2	2.16	0.45
1:AB:535:ARG:O	1:AB:538:GLU:HG3	2.16	0.45
3:CB:294:ALA:O	3:CB:301:VAL:HG22	2.16	0.45
2:BD:77:LEU:HD21	2:BE:38:SER:HB3	1.97	0.45
2:BD:158:MET:CE	2:BE:218:VAL:HB	2.46	0.45
2:BE:127:PRO:HA	2:BE:130:ILE:HD12	1.97	0.45
2:BE:158:MET:CE	2:BF:218:VAL:HB	2.46	0.45
3:CE:268:ILE:HG23	3:CE:286:ILE:HD13	1.99	0.45
4:EE:62:VAL:O	4:FE:72:ARG:NH1	2.49	0.45
4:EE:130:GLU:HG3	4:EE:133:ARG:HH22	1.81	0.45
2:BG:172:LEU:O	2:BG:176:THR:HG23	2.17	0.45
3:CI:63:ARG:NH2	3:CJ:188:PHE:HA	2.32	0.45
1:AJ:522:ARG:HB2	1:AJ:526:ARG:HH21	1.80	0.45
1:AK:553:GLN:NE2	1:AK:557:ASN:OD1	2.49	0.45
4:DK:80:ARG:NH1	4:FL:52:GLN:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:61:PRO:HB2	4:FK:72:ARG:NH2	2.27	0.45
4:EL:58:MET:HA	4:FL:76:LYS:NZ	2.31	0.45
3:CM:246:TRP:HH2	4:FN:122:ILE:HG13	1.82	0.45
1:AO:537:ARG:CA	2:BO:21:ARG:HH22	2.24	0.45
2:BO:158:MET:CE	2:BP:218:VAL:HB	2.46	0.45
2:BP:70:ASN:HA	2:BQ:15:MET:HE1	1.98	0.45
2:BP:114:GLU:HG2	2:BP:115:PRO:HD2	1.98	0.45
3:CQ:135:GLY:HA3	3:CQ:211:LEU:HD21	1.97	0.45
3:CT:69:LEU:HD23	3:CT:77:PRO:HG3	1.99	0.45
1:AU:537:ARG:CA	2:BU:21:ARG:HH22	2.23	0.45
2:BV:126:HIS:O	2:BV:129:ILE:HG22	2.16	0.45
2:BV:161:ILE:HG22	2:BW:199:ALA:HB2	1.97	0.45
4:EV:61:PRO:HB2	4:FV:72:ARG:HH22	1.82	0.45
3:CW:294:ALA:O	3:CW:301:VAL:HG22	2.17	0.45
4:EW:98:ASP:HA	4:EW:108:GLN:HA	1.98	0.45
3:CX:296:VAL:HG13	3:CX:301:VAL:HG11	1.97	0.45
4:DX:80:ARG:NH1	4:FY:52:GLN:HG2	2.31	0.45
2:BY:160:ARG:HG2	3:CY:137:PHE:CE2	2.51	0.45
4:DY:133:ARG:HH22	4:DY:137:ARG:HD3	1.82	0.45
2:B1:193:MET:CE	2:BY:135:VAL:HB	2.47	0.45
4:F1:97:LEU:HB2	4:F1:109:GLY:O	2.16	0.45
3:C2:69:LEU:HD23	3:C2:77:PRO:HG3	1.99	0.45
2:B3:131:ALA:HB1	2:B3:161:ILE:CD1	2.46	0.45
2:B4:321:MET:HG3	2:B4:323:ILE:HG23	1.99	0.45
3:C6:288:LYS:HA	3:C6:288:LYS:HD3	1.86	0.45
4:D6:105:LEU:C	4:D6:131:ARG:HH12	2.20	0.45
2:B8:126:HIS:O	2:B8:130:ILE:HG13	2.17	0.45
2:BA:126:HIS:O	2:BA:130:ILE:HG13	2.17	0.45
3:CA:268:ILE:HG23	3:CA:286:ILE:HD13	1.99	0.45
4:DA:125:ILE:HG22	4:DA:126:ILE:N	2.29	0.45
3:CF:69:LEU:HD23	3:CF:77:PRO:HG3	1.98	0.45
3:CF:135:GLY:HA3	3:CF:211:LEU:HD21	1.98	0.45
4:FF:75:ILE:HA	4:FF:78:LEU:HG	1.99	0.45
3:CG:69:LEU:HD23	3:CG:77:PRO:HG3	1.98	0.45
4:EG:130:GLU:HG3	4:EG:133:ARG:HH22	1.81	0.45
4:FH:97:LEU:HB2	4:FH:109:GLY:O	2.16	0.45
2:BI:250:LEU:HD23	2:BI:315:LEU:HD12	1.97	0.45
2:BJ:225:LEU:O	2:BJ:229:ILE:HG12	2.16	0.45
4:EN:98:ASP:HA	4:EN:108:GLN:HA	1.99	0.45
1:AO:535:ARG:O	1:AO:538:GLU:HG3	2.17	0.45
3:CO:101:ASN:HD21	3:CO:103:ASN:HD21	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:96:PRO:HB2	4:FP:108:GLN:HB3	1.97	0.45
2:BQ:101:ARG:HH12	2:BR:42:ALA:CB	2.30	0.45
3:CQ:294:ALA:O	3:CQ:301:VAL:HG22	2.17	0.45
1:AR:522:ARG:HB2	1:AR:526:ARG:HH21	1.80	0.45
3:CR:268:ILE:HG23	3:CR:286:ILE:HD13	1.98	0.45
4:FR:66:VAL:HG12	4:FR:99:ILE:HG13	1.99	0.45
3:CT:135:GLY:HA3	3:CT:211:LEU:HD21	1.97	0.45
2:BU:101:ARG:HH22	2:BV:42:ALA:HB3	1.81	0.45
3:CV:268:ILE:HG23	3:CV:286:ILE:HD13	1.98	0.45
4:DV:73:MET:SD	4:DV:78:LEU:HB3	2.56	0.45
2:BX:131:ALA:HB1	2:BX:161:ILE:CD1	2.45	0.45
2:BX:321:MET:HG3	2:BX:323:ILE:HG23	1.99	0.45
2:BY:210:GLN:O	2:BY:214:VAL:HG23	2.15	0.45
3:CY:68:GLY:HA3	3:CY:160:LEU:HD21	1.98	0.45
4:DY:112:VAL:HG21	4:DY:121:ARG:HH12	1.81	0.45
4:EY:130:GLU:HG3	4:EY:133:ARG:HH22	1.80	0.45
3:C1:69:LEU:HD23	3:C1:77:PRO:HG3	1.99	0.45
4:F3:107:ALA:HA	4:F3:126:ILE:HG12	1.98	0.45
2:B5:97:ILE:HG22	2:B5:101:ARG:NE	2.30	0.45
1:A7:535:ARG:O	1:A7:538:GLU:HG3	2.16	0.45
3:C7:63:ARG:HH22	3:C8:188:PHE:CB	2.29	0.45
2:B8:172:LEU:O	2:B8:176:THR:HG23	2.16	0.45
2:B8:329:THR:HB	2:B9:298:LEU:HD22	1.98	0.45
2:B9:127:PRO:HA	2:B9:130:ILE:HD12	1.97	0.45
2:BA:12:ILE:HD13	2:BA:55:VAL:HG21	1.99	0.45
2:BA:233:MET:O	2:BA:313:ARG:NH2	2.50	0.45
2:BE:77:LEU:HD22	2:BF:41:MET:SD	2.56	0.45
3:CE:63:ARG:NH2	3:CF:188:PHE:HA	2.32	0.45
1:AF:533:SER:HA	1:AF:536:ILE:HG12	1.97	0.45
4:DF:133:ARG:HH21	4:DF:134:ARG:HG2	1.80	0.45
1:AG:535:ARG:O	1:AG:538:GLU:HG3	2.16	0.45
2:BG:126:HIS:O	2:BG:130:ILE:HG13	2.17	0.45
4:EG:98:ASP:HA	4:EG:108:GLN:HA	1.99	0.45
1:AH:535:ARG:O	1:AH:538:GLU:HG3	2.16	0.45
4:DH:133:ARG:HH21	4:DH:134:ARG:HG2	1.82	0.45
2:BJ:131:ALA:HB1	2:BJ:161:ILE:CD1	2.46	0.45
2:BJ:229:ILE:O	2:BJ:233:MET:HG2	2.17	0.45
2:BL:131:ALA:HB1	2:BL:161:ILE:CD1	2.46	0.45
3:CL:249:ASN:CG	4:FM:125:ILE:HG21	2.37	0.45
4:EL:62:VAL:O	4:FL:72:ARG:NH1	2.50	0.45
2:BO:12:ILE:HD13	2:BO:55:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EO:130:GLU:HG3	4:EO:133:ARG:HH22	1.81	0.45
3:CP:69:LEU:HD23	3:CP:77:PRO:HG3	1.99	0.45
3:CP:135:GLY:HA3	3:CP:211:LEU:HD21	1.97	0.45
3:CP:296:VAL:HG13	3:CP:301:VAL:HG11	1.97	0.45
4:FQ:107:ALA:HA	4:FQ:126:ILE:HG12	1.99	0.45
3:CR:288:LYS:HZ3	4:DR:118:TYR:H	1.64	0.45
3:CS:69:LEU:HD23	3:CS:77:PRO:HG3	1.99	0.45
4:DT:133:ARG:HH21	4:DT:134:ARG:HG2	1.82	0.45
3:CU:242:GLU:HB2	3:CU:246:TRP:HD1	1.81	0.45
3:CU:268:ILE:HG23	3:CU:286:ILE:HD13	1.99	0.45
4:DY:78:LEU:HA	4:DY:81:LEU:HG	1.98	0.45
2:B1:321:MET:HG3	2:B1:323:ILE:HG23	1.99	0.45
3:C1:219:LEU:HD12	3:C1:223:MET:HG3	1.99	0.45
4:D2:105:LEU:C	4:D2:131:ARG:HH12	2.20	0.45
4:E3:98:ASP:HA	4:E3:108:GLN:HA	1.98	0.45
2:B4:111:ASN:OD1	2:B4:137:LEU:HB3	2.17	0.45
3:C4:255:GLN:OE1	3:C4:256:HIS:ND1	2.44	0.45
4:E4:67:GLU:CD	4:F4:65:THR:HG21	2.36	0.45
4:D5:73:MET:SD	4:D5:78:LEU:HD23	2.57	0.45
2:B6:321:MET:HG3	2:B6:323:ILE:HG23	1.99	0.45
4:D6:73:MET:SD	4:D6:78:LEU:HB3	2.57	0.45
4:E6:58:MET:HA	4:F6:76:LYS:NZ	2.32	0.45
4:E6:130:GLU:HG3	4:E6:133:ARG:HH22	1.81	0.45
1:A7:528:GLY:O	1:A7:532:MET:HG2	2.17	0.45
2:B7:210:GLN:O	2:B7:214:VAL:HG23	2.17	0.45
3:C8:135:GLY:HA3	3:C8:211:LEU:HD21	1.98	0.45
3:C8:256:HIS:HE1	4:F9:104:TYR:OH	1.99	0.45
4:E8:130:GLU:HG3	4:E8:133:ARG:HH22	1.82	0.45
3:C9:101:ASN:HD21	3:C9:103:ASN:HD21	1.64	0.45
4:D9:73:MET:SD	4:D9:78:LEU:HD23	2.57	0.45
3:CA:242:GLU:HB2	3:CA:246:TRP:HE1	1.81	0.45
3:CB:268:ILE:HG23	3:CB:286:ILE:HD13	1.99	0.45
2:BC:114:GLU:HG2	2:BC:115:PRO:HD2	1.98	0.45
3:CC:294:ALA:O	3:CC:301:VAL:HG22	2.16	0.45
1:AD:535:ARG:O	1:AD:538:GLU:HG3	2.16	0.45
2:BD:131:ALA:HB1	2:BD:161:ILE:CD1	2.47	0.45
4:DE:125:ILE:HG22	4:DE:126:ILE:N	2.29	0.45
4:FE:107:ALA:HB1	4:FE:124:ASP:O	2.17	0.45
2:BH:127:PRO:HA	2:BH:130:ILE:HD12	1.98	0.45
2:BH:238:ASN:O	2:BH:242:VAL:HG23	2.17	0.45
2:BH:250:LEU:HD23	2:BH:315:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:268:ILE:HG23	3:CH:286:ILE:HD13	1.99	0.45
4:EJ:61:PRO:HB2	4:FJ:72:ARG:HE	1.81	0.45
4:EJ:105:LEU:O	4:EJ:131:ARG:NH2	2.42	0.45
4:FJ:96:PRO:HB2	4:FJ:108:GLN:HB3	1.98	0.45
3:CK:63:ARG:HH22	3:CL:188:PHE:CB	2.30	0.45
3:CN:220:PRO:O	3:CN:223:MET:HB2	2.17	0.45
3:CN:268:ILE:HG23	3:CN:286:ILE:HD13	1.99	0.45
4:FN:97:LEU:HB2	4:FN:109:GLY:O	2.16	0.45
2:BQ:126:HIS:O	2:BQ:130:ILE:HG13	2.17	0.45
4:DQ:133:ARG:HH21	4:DQ:134:ARG:HG2	1.82	0.45
3:CS:268:ILE:HG23	3:CS:286:ILE:HD13	1.99	0.45
4:ET:72:ARG:HE	4:ET:73:MET:N	2.13	0.45
4:ET:130:GLU:HG3	4:ET:133:ARG:HH22	1.81	0.45
2:BU:126:HIS:O	2:BU:130:ILE:HG13	2.17	0.45
2:BU:228:LYS:HA	2:BU:228:LYS:HD2	1.83	0.45
4:FV:54:ILE:HG13	4:FV:55:ASP:H	1.81	0.45
1:AW:537:ARG:CA	2:BW:21:ARG:HH22	2.23	0.45
4:FW:96:PRO:HB2	4:FW:108:GLN:HB3	1.99	0.45
2:BY:126:HIS:O	2:BY:130:ILE:HG13	2.17	0.45
3:C1:188:PHE:HB3	3:CY:63:ARG:HH22	1.81	0.45
1:A2:535:ARG:NH2	2:B2:60:GLU:HB2	2.27	0.45
2:B2:126:HIS:O	2:B2:130:ILE:HG13	2.17	0.45
3:C3:105:ILE:HG12	3:C3:162:LEU:HD11	1.99	0.45
3:C4:69:LEU:HD23	3:C4:77:PRO:HG3	1.99	0.45
3:C5:69:LEU:HD23	3:C5:77:PRO:HG3	1.99	0.45
4:E5:105:LEU:O	4:E5:131:ARG:NH2	2.44	0.45
3:C6:288:LYS:HZ3	4:D6:118:TYR:N	2.14	0.45
1:A7:521:ARG:HA	1:A7:524:ASN:ND2	2.32	0.45
1:A8:521:ARG:HA	1:A8:524:ASN:ND2	2.32	0.45
1:A8:535:ARG:O	1:A8:538:GLU:HG3	2.16	0.45
4:E8:117:LYS:HZ2	4:F8:92:LEU:HA	1.81	0.45
1:A9:537:ARG:CA	2:B9:21:ARG:HH22	2.24	0.45
2:B9:228:LYS:HD2	2:B9:228:LYS:HA	1.83	0.45
3:C9:135:GLY:HA3	3:C9:211:LEU:HD21	1.97	0.45
4:F9:105:LEU:HG	4:F9:126:ILE:HG13	1.97	0.45
2:BA:70:ASN:HA	2:BB:15:MET:HE1	1.99	0.45
4:EB:117:LYS:HZ2	4:FB:92:LEU:HA	1.81	0.45
4:EB:130:GLU:HG3	4:EB:133:ARG:HH22	1.81	0.45
3:CC:63:ARG:HH22	3:CD:188:PHE:CB	2.30	0.45
3:CC:254:VAL:HG13	4:FD:101:ILE:HD11	1.98	0.45
2:BE:101:ARG:HH22	2:BF:42:ALA:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:246:TRP:HE1	4:EG:83:GLN:NE2	2.15	0.45
3:CG:54:LEU:HD23	3:CG:84:ILE:HD13	1.99	0.45
2:BI:126:HIS:O	2:BI:130:ILE:HG13	2.17	0.45
4:EI:61:PRO:HB2	4:FI:72:ARG:HH21	1.81	0.45
2:BJ:321:MET:HG3	2:BJ:323:ILE:HG23	1.99	0.45
2:BL:68:ALA:HB2	2:BM:47:ILE:O	2.17	0.45
2:BL:124:ASP:N	2:BL:124:ASP:OD1	2.48	0.45
3:CM:156:ARG:HA	3:CM:159:LYS:NZ	2.32	0.45
2:BN:158:MET:SD	2:BO:218:VAL:HB	2.57	0.45
4:DN:133:ARG:HH21	4:DN:134:ARG:HG2	1.82	0.45
2:BO:126:HIS:O	2:BO:129:ILE:HG22	2.16	0.45
2:BO:250:LEU:HD23	2:BO:315:LEU:HD12	1.97	0.45
3:CP:294:ALA:O	3:CP:301:VAL:HG22	2.17	0.45
1:AQ:535:ARG:O	1:AQ:538:GLU:HG3	2.16	0.45
2:BQ:78:ARG:NH1	2:BQ:91:SER:OG	2.44	0.45
3:CS:258:GLU:HA	4:DS:74:THR:HG22	1.98	0.45
2:BU:250:LEU:HD23	2:BU:315:LEU:HD12	1.97	0.45
4:EV:67:GLU:CD	4:FV:65:THR:HG21	2.37	0.45
2:BW:114:GLU:HG2	2:BW:115:PRO:HD2	1.99	0.45
2:BW:126:HIS:O	2:BW:129:ILE:HG22	2.17	0.45
4:FX:108:GLN:HG3	4:FX:126:ILE:HD11	1.98	0.45
3:C1:296:VAL:HG13	3:C1:301:VAL:HG11	1.98	0.45
4:F1:105:LEU:HD23	4:F1:131:ARG:HG3	1.99	0.45
2:B4:131:ALA:O	2:B4:135:VAL:HG22	2.16	0.45
2:B5:12:ILE:HD13	2:B5:55:VAL:HG21	1.97	0.45
3:C5:156:ARG:HA	3:C5:159:LYS:NZ	2.32	0.45
3:C5:294:ALA:HB3	3:C5:302:LEU:HG	1.99	0.45
1:A8:528:GLY:O	1:A8:532:MET:HG2	2.17	0.45
1:A9:521:ARG:HA	1:A9:524:ASN:ND2	2.32	0.45
2:B9:114:GLU:HG2	2:B9:115:PRO:HD2	1.99	0.45
4:D9:133:ARG:HH21	4:D9:134:ARG:HG2	1.82	0.45
1:AB:521:ARG:HA	1:AB:524:ASN:ND2	2.31	0.45
2:BD:12:ILE:HG12	2:BD:47:ILE:HG21	1.99	0.45
2:BE:126:HIS:O	2:BE:130:ILE:HG13	2.17	0.45
2:BF:126:HIS:O	2:BF:130:ILE:HG13	2.17	0.45
2:BG:238:ASN:O	2:BG:242:VAL:HG23	2.17	0.45
3:CG:63:ARG:HH22	3:CH:188:PHE:CB	2.30	0.45
1:AH:517:GLN:HE21	1:AH:518:LEU:HD23	1.82	0.45
3:CI:240:ARG:NH2	3:CI:243:ASP:OD2	2.50	0.45
4:EI:117:LYS:HZ2	4:FI:92:LEU:HA	1.82	0.45
3:CJ:54:LEU:HD23	3:CJ:84:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DJ:133:ARG:HH21	4:DJ:134:ARG:HG2	1.82	0.45
2:BK:228:LYS:HA	2:BK:228:LYS:HD2	1.84	0.45
3:CK:135:GLY:HA3	3:CK:211:LEU:HD21	1.98	0.45
3:CK:246:TRP:HH2	4:FL:122:ILE:HG13	1.81	0.45
4:EL:98:ASP:HA	4:EL:108:GLN:HA	1.99	0.45
2:BM:126:HIS:O	2:BM:130:ILE:HG13	2.17	0.45
3:CM:54:LEU:HD23	3:CM:84:ILE:HD13	1.99	0.45
3:CM:294:ALA:HB3	3:CM:302:LEU:HG	1.99	0.45
2:BN:126:HIS:O	2:BN:129:ILE:HG22	2.16	0.45
2:BO:126:HIS:O	2:BO:130:ILE:HG13	2.17	0.45
4:EO:58:MET:HA	4:FO:76:LYS:NZ	2.32	0.45
4:EO:67:GLU:CD	4:FO:65:THR:HG21	2.37	0.45
3:CP:268:ILE:HG23	3:CP:286:ILE:HD13	1.99	0.45
4:DP:112:VAL:HG21	4:DP:121:ARG:HH12	1.81	0.45
4:EP:64:LEU:CB	4:EP:101:ILE:HG13	2.47	0.45
4:EP:75:ILE:HA	4:EP:78:LEU:HD13	1.99	0.45
3:CQ:69:LEU:HD23	3:CQ:77:PRO:HG3	1.99	0.45
4:EQ:61:PRO:HB2	4:FQ:72:ARG:NH2	2.32	0.45
2:BR:131:ALA:HB1	2:BR:161:ILE:CD1	2.47	0.45
3:CR:69:LEU:HD23	3:CR:77:PRO:HG3	1.99	0.45
4:ER:98:ASP:HA	4:ER:108:GLN:HA	1.99	0.45
1:AS:535:ARG:O	1:AS:538:GLU:HG3	2.17	0.45
2:BS:126:HIS:O	2:BS:130:ILE:HG13	2.17	0.45
3:CS:181:ARG:NE	3:CS:183:GLU:OE2	2.40	0.45
4:FS:97:LEU:HB2	4:FS:109:GLY:O	2.17	0.45
2:BV:114:GLU:HG2	2:BV:115:PRO:HD2	1.99	0.45
4:EW:77:GLU:O	4:EW:81:LEU:HG	2.17	0.45
4:FW:105:LEU:HD23	4:FW:131:ARG:HG3	1.99	0.45
3:CX:101:ASN:HD21	3:CX:103:ASN:HD21	1.65	0.45
2:BY:114:GLU:HG2	2:BY:115:PRO:HD2	1.99	0.45
3:CY:294:ALA:HB3	3:CY:302:LEU:HG	1.99	0.45
4:E1:117:LYS:HZ2	4:F1:92:LEU:HA	1.81	0.44
3:C3:69:LEU:HD23	3:C3:77:PRO:HG3	1.99	0.44
4:D3:133:ARG:HH21	4:D3:134:ARG:HG2	1.82	0.44
4:E4:117:LYS:HZ2	4:F4:92:LEU:HA	1.82	0.44
4:F4:107:ALA:HA	4:F4:126:ILE:HG12	2.00	0.44
3:C5:113:THR:O	3:C5:191:ILE:HD11	2.16	0.44
1:A6:528:GLY:O	1:A6:532:MET:HG2	2.17	0.44
1:A6:536:ILE:O	1:A6:539:MET:HG3	2.18	0.44
3:C6:246:TRP:HE1	4:E7:83:GLN:NE2	2.15	0.44
4:F7:99:ILE:O	4:F7:106:ILE:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B8:68:ALA:HB2	2:B9:47:ILE:O	2.17	0.44
1:A9:528:GLY:O	1:A9:532:MET:HG2	2.17	0.44
2:BA:65:GLN:O	2:BB:48:SER:OG	2.22	0.44
3:CB:101:ASN:HD21	3:CB:103:ASN:HD21	1.65	0.44
2:BC:126:HIS:O	2:BC:130:ILE:HG13	2.17	0.44
3:CC:54:LEU:HD23	3:CC:84:ILE:HD13	1.99	0.44
4:EC:72:ARG:HE	4:EC:73:MET:N	2.15	0.44
2:BE:228:LYS:HA	2:BE:228:LYS:HD2	1.83	0.44
4:DE:112:VAL:HG21	4:DE:121:ARG:HH12	1.81	0.44
2:BG:321:MET:HG3	2:BG:323:ILE:HG23	2.00	0.44
4:EH:98:ASP:HA	4:EH:108:GLN:HA	1.99	0.44
4:FI:97:LEU:HB2	4:FI:109:GLY:O	2.16	0.44
2:BJ:12:ILE:HG12	2:BJ:47:ILE:HG21	1.99	0.44
4:EJ:75:ILE:HA	4:EJ:78:LEU:HG	1.99	0.44
2:BK:126:HIS:O	2:BK:130:ILE:HG13	2.17	0.44
3:CK:54:LEU:HD23	3:CK:84:ILE:HD13	1.99	0.44
3:CK:288:LYS:HA	3:CK:288:LYS:HD3	1.85	0.44
4:EK:76:LYS:NZ	4:FK:58:MET:HB2	2.31	0.44
2:BM:124:ASP:N	2:BM:124:ASP:OD1	2.48	0.44
2:BM:238:ASN:O	2:BM:242:VAL:HG23	2.18	0.44
3:CO:201:ASN:OD1	3:CO:216:ASN:HB3	2.17	0.44
4:DP:78:LEU:HA	4:DP:81:LEU:HG	1.99	0.44
4:FP:97:LEU:HB2	4:FP:109:GLY:O	2.17	0.44
4:FP:105:LEU:HD23	4:FP:131:ARG:HG3	1.99	0.44
2:BR:238:ASN:O	2:BR:242:VAL:HG23	2.18	0.44
3:CS:135:GLY:HA3	3:CS:211:LEU:HD21	1.98	0.44
4:ES:58:MET:HA	4:FS:76:LYS:NZ	2.32	0.44
2:BT:77:LEU:HD22	2:BU:41:MET:SD	2.56	0.44
3:CU:69:LEU:HD23	3:CU:77:PRO:HG3	1.99	0.44
3:CU:288:LYS:HZ3	4:DU:118:TYR:H	1.64	0.44
4:FU:104:TYR:CD2	4:FU:105:LEU:N	2.85	0.44
3:CV:63:ARG:HH22	3:CW:188:PHE:CB	2.29	0.44
4:FW:107:ALA:HA	4:FW:126:ILE:HG12	1.99	0.44
2:BX:114:GLU:HG2	2:BX:115:PRO:HD2	1.99	0.44
2:B1:114:GLU:HG2	2:B1:115:PRO:HD2	2.00	0.44
2:B1:126:HIS:O	2:B1:130:ILE:HG13	2.17	0.44
4:E1:98:ASP:HA	4:E1:108:GLN:HA	1.99	0.44
2:B2:114:GLU:HG2	2:B2:115:PRO:HD2	1.99	0.44
3:C2:246:TRP:CD1	4:E3:82:THR:HA	2.52	0.44
2:B3:65:GLN:O	2:B4:48:SER:OG	2.24	0.44
4:D4:80:ARG:NH1	4:F5:52:GLN:HG2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:97:LEU:HB2	4:F4:109:GLY:O	2.17	0.44
2:B5:127:PRO:HA	2:B5:130:ILE:HD12	1.99	0.44
4:D5:73:MET:HG2	4:D5:77:GLU:OE1	2.17	0.44
2:B6:101:ARG:HH12	2:B7:42:ALA:CB	2.30	0.44
2:B6:114:GLU:HG2	2:B6:115:PRO:HD2	2.00	0.44
3:C6:68:GLY:HA3	3:C6:160:LEU:HD21	1.98	0.44
2:B7:114:GLU:HG2	2:B7:115:PRO:HD2	2.00	0.44
4:E8:75:ILE:HA	4:E8:78:LEU:HD13	1.98	0.44
1:AA:528:GLY:O	1:AA:532:MET:HG2	2.17	0.44
3:CA:156:ARG:HA	3:CA:159:LYS:NZ	2.32	0.44
3:CA:288:LYS:HA	3:CA:288:LYS:HD3	1.85	0.44
3:CC:105:ILE:HG12	3:CC:162:LEU:HD11	1.98	0.44
1:AD:521:ARG:HA	1:AD:524:ASN:ND2	2.32	0.44
2:BD:41:MET:O	2:BD:44:VAL:HG12	2.16	0.44
3:CD:101:ASN:ND2	3:CD:103:ASN:HD21	2.16	0.44
4:ED:76:LYS:NZ	4:FD:58:MET:HB2	2.32	0.44
4:FE:53:ASP:OD2	4:FE:56:LEU:HB3	2.17	0.44
3:CF:54:LEU:HD23	3:CF:84:ILE:HD13	1.99	0.44
2:BH:126:HIS:O	2:BH:129:ILE:HG22	2.16	0.44
1:AL:528:GLY:O	1:AL:532:MET:HG2	2.17	0.44
2:BL:12:ILE:HD13	2:BL:55:VAL:HG21	1.99	0.44
4:EL:74:THR:OG1	4:EL:75:ILE:N	2.50	0.44
3:CN:107:LEU:HG	3:CN:177:VAL:HG12	1.98	0.44
4:EN:97:LEU:HB2	4:EN:109:GLY:O	2.18	0.44
4:EN:105:LEU:O	4:EN:131:ARG:NH2	2.40	0.44
1:AO:517:GLN:HG2	1:AO:518:LEU:HD22	1.99	0.44
3:CO:258:GLU:OE1	4:DO:73:MET:N	2.50	0.44
3:CP:253:GLN:NE2	4:FQ:125:ILE:HB	2.33	0.44
3:CQ:296:VAL:HG23	4:FR:61:PRO:HG2	1.99	0.44
1:AR:536:ILE:O	1:AR:539:MET:HG3	2.17	0.44
2:BS:124:ASP:N	2:BS:124:ASP:OD1	2.48	0.44
2:BS:126:HIS:O	2:BS:129:ILE:HG22	2.16	0.44
2:BS:146:LEU:HB3	2:BT:206:MET:HE1	1.99	0.44
4:ET:98:ASP:HA	4:ET:108:GLN:HA	1.99	0.44
2:BU:114:GLU:HG2	2:BU:115:PRO:HD2	2.00	0.44
2:BV:228:LYS:HA	2:BV:228:LYS:HD2	1.83	0.44
2:BW:238:ASN:O	2:BW:242:VAL:HG23	2.18	0.44
3:CW:101:ASN:HD21	3:CW:103:ASN:HD21	1.65	0.44
3:CW:220:PRO:O	3:CW:223:MET:HB2	2.18	0.44
2:B1:77:LEU:HD22	2:B2:41:MET:SD	2.57	0.44
2:B1:78:ARG:NH1	2:B1:91:SER:OG	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:126:HIS:O	2:B3:130:ILE:HG13	2.17	0.44
2:B3:238:ASN:O	2:B3:242:VAL:HG23	2.17	0.44
2:B4:114:GLU:HG2	2:B4:115:PRO:HD2	2.00	0.44
2:B4:238:ASN:O	2:B4:242:VAL:HG23	2.18	0.44
4:E8:58:MET:HA	4:F8:76:LYS:NZ	2.33	0.44
2:B9:203:ILE:HD12	2:B9:206:MET:HE2	1.99	0.44
4:E9:58:MET:HA	4:F9:76:LYS:NZ	2.32	0.44
3:CA:63:ARG:NH2	3:CB:188:PHE:HA	2.31	0.44
3:CC:135:GLY:HA3	3:CC:211:LEU:HD21	1.98	0.44
3:CC:296:VAL:O	3:CC:299:VAL:HG12	2.18	0.44
4:EC:58:MET:HA	4:FC:76:LYS:NZ	2.32	0.44
1:AD:532:MET:HB2	1:AD:535:ARG:HE	1.82	0.44
1:AE:522:ARG:HB2	1:AE:526:ARG:HH21	1.82	0.44
1:AE:532:MET:HA	1:AE:535:ARG:HG3	1.99	0.44
4:EE:76:LYS:O	4:EE:79:LEU:HG	2.18	0.44
1:AF:521:ARG:HA	1:AF:524:ASN:ND2	2.33	0.44
2:BF:135:VAL:HB	2:BG:193:MET:CE	2.48	0.44
2:BF:309:LEU:HD23	2:BF:309:LEU:HA	1.88	0.44
4:DF:101:ILE:CD1	4:EF:60:ILE:HG12	2.48	0.44
1:AG:521:ARG:HA	1:AG:524:ASN:ND2	2.32	0.44
4:DG:112:VAL:HG21	4:DG:121:ARG:HH12	1.83	0.44
3:CH:54:LEU:HD23	3:CH:84:ILE:HD13	2.00	0.44
3:CH:294:ALA:O	3:CH:301:VAL:HG22	2.18	0.44
1:AI:535:ARG:O	1:AI:538:GLU:HG3	2.18	0.44
2:BI:300:GLN:O	2:BI:304:GLU:HG2	2.18	0.44
1:AK:521:ARG:HA	1:AK:524:ASN:ND2	2.32	0.44
2:BK:107:ILE:HG12	2:BK:136:HIS:HD1	1.82	0.44
2:BK:114:GLU:HG2	2:BK:115:PRO:HD2	1.98	0.44
2:BK:233:MET:O	2:BK:313:ARG:NH2	2.51	0.44
3:CK:288:LYS:NZ	4:DK:116:ASP:O	2.44	0.44
2:BL:127:PRO:HA	2:BL:130:ILE:HD12	1.98	0.44
2:BL:238:ASN:O	2:BL:242:VAL:HG23	2.18	0.44
3:CL:54:LEU:HD23	3:CL:84:ILE:HD13	2.00	0.44
4:DM:112:VAL:HG21	4:DM:121:ARG:HH12	1.83	0.44
2:BN:238:ASN:O	2:BN:242:VAL:HG23	2.17	0.44
3:CN:54:LEU:HD23	3:CN:84:ILE:HD13	1.99	0.44
3:CN:69:LEU:HD23	3:CN:77:PRO:HG3	1.99	0.44
1:AO:528:GLY:O	1:AO:532:MET:HG2	2.17	0.44
4:DO:78:LEU:HA	4:DO:81:LEU:HG	2.00	0.44
4:DO:133:ARG:HH21	4:DO:134:ARG:HG2	1.83	0.44
3:CP:244:GLN:HA	3:CP:247:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DP:101:ILE:CD1	4:EP:60:ILE:HG12	2.47	0.44
1:AQ:521:ARG:HA	1:AQ:524:ASN:ND2	2.32	0.44
1:AQ:536:ILE:O	1:AQ:539:MET:HG3	2.18	0.44
2:BQ:111:ASN:OD1	2:BQ:137:LEU:HB3	2.17	0.44
4:DQ:73:MET:SD	4:DQ:78:LEU:HB3	2.56	0.44
1:AS:537:ARG:CA	2:BS:21:ARG:HH22	2.24	0.44
2:BS:238:ASN:O	2:BS:242:VAL:HG23	2.18	0.44
1:AU:553:GLN:NE2	1:AU:557:ASN:OD1	2.51	0.44
2:BU:238:ASN:O	2:BU:242:VAL:HG23	2.17	0.44
2:BV:111:ASN:OD1	2:BV:137:LEU:HB3	2.17	0.44
2:BV:238:ASN:O	2:BV:242:VAL:HG23	2.17	0.44
4:FV:97:LEU:HB2	4:FV:109:GLY:O	2.16	0.44
4:DW:73:MET:SD	4:DW:78:LEU:HB3	2.58	0.44
3:CY:69:LEU:HD23	3:CY:77:PRO:HG3	1.99	0.44
3:CY:107:LEU:HG	3:CY:177:VAL:HG12	1.98	0.44
1:A1:536:ILE:O	1:A1:539:MET:HG3	2.18	0.44
2:B1:131:ALA:HB1	2:B1:161:ILE:CD1	2.46	0.44
2:B1:238:ASN:O	2:B1:242:VAL:HG23	2.18	0.44
3:C1:101:ASN:HD21	3:C1:103:ASN:HD21	1.65	0.44
3:C3:68:GLY:HA3	3:C3:160:LEU:HD21	2.00	0.44
2:B5:114:GLU:HG2	2:B5:115:PRO:HD2	1.99	0.44
2:B5:228:LYS:HA	2:B5:228:LYS:HD2	1.83	0.44
1:A6:521:ARG:HA	1:A6:524:ASN:ND2	2.32	0.44
1:A7:517:GLN:HG2	1:A7:518:LEU:HD22	1.99	0.44
3:C8:268:ILE:HG23	3:C8:286:ILE:HD13	2.00	0.44
4:D8:135:LEU:HD22	4:E9:132:MET:HB3	1.98	0.44
1:AA:536:ILE:O	1:AA:539:MET:HG3	2.17	0.44
2:BA:60:GLU:HG2	1:AB:522:ARG:HH12	1.82	0.44
4:DA:75:ILE:O	4:DA:78:LEU:HG	2.17	0.44
3:CC:101:ASN:ND2	3:CC:103:ASN:HD21	2.16	0.44
3:CC:294:ALA:HB3	3:CC:302:LEU:HG	1.99	0.44
4:DC:112:VAL:HG21	4:DC:121:ARG:HH12	1.83	0.44
3:CD:105:ILE:HG12	3:CD:162:LEU:HD11	1.99	0.44
3:CF:220:PRO:O	3:CF:223:MET:HB2	2.18	0.44
1:AH:536:ILE:O	1:AH:539:MET:HG3	2.18	0.44
4:DH:108:GLN:N	4:DH:124:ASP:OD1	2.38	0.44
3:CI:54:LEU:HD23	3:CI:84:ILE:HD13	2.00	0.44
3:CL:69:LEU:HD23	3:CL:77:PRO:HG3	1.99	0.44
3:CM:69:LEU:HD23	3:CM:77:PRO:HG3	1.99	0.44
3:CM:272:LEU:HD23	4:DM:60:ILE:HB	2.00	0.44
4:EM:77:GLU:O	4:EM:81:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CN:249:ASN:O	3:CN:253:GLN:HG3	2.18	0.44
2:BP:238:ASN:O	2:BP:242:VAL:HG23	2.17	0.44
4:EP:58:MET:HA	4:FP:76:LYS:NZ	2.32	0.44
2:BR:135:VAL:HG11	2:BS:193:MET:SD	2.58	0.44
2:BR:151:GLU:HA	2:BR:154:ARG:NH1	2.32	0.44
2:BT:228:LYS:HA	2:BT:228:LYS:HD2	1.84	0.44
2:BT:233:MET:O	2:BT:313:ARG:NH2	2.50	0.44
3:CU:258:GLU:CD	4:DU:72:ARG:HE	2.20	0.44
4:FU:117:LYS:HD3	4:FU:117:LYS:HA	1.86	0.44
2:BX:238:ASN:O	2:BX:242:VAL:HG23	2.18	0.44
3:CX:249:ASN:HB3	4:FY:125:ILE:HD13	1.98	0.44
4:EX:58:MET:HA	4:FX:76:LYS:NZ	2.32	0.44
4:EX:97:LEU:HB2	4:EX:109:GLY:O	2.17	0.44
3:CY:222:SER:HA	3:CY:225:GLU:HG2	2.00	0.44
1:A2:532:MET:HA	1:A2:535:ARG:HG3	2.00	0.44
2:B2:68:ALA:HB2	2:B3:47:ILE:O	2.18	0.44
1:A3:536:ILE:O	1:A3:539:MET:HG3	2.18	0.44
3:C3:249:ASN:CG	4:F4:125:ILE:HG21	2.38	0.44
2:B4:70:ASN:HA	2:B5:15:MET:HE1	2.00	0.44
3:C4:261:LEU:HD13	4:D4:73:MET:HE2	1.98	0.44
4:E4:58:MET:HA	4:F4:76:LYS:NZ	2.32	0.44
2:B5:41:MET:O	2:B5:44:VAL:HG12	2.16	0.44
2:B5:70:ASN:HA	2:B6:15:MET:HE1	1.99	0.44
4:D5:112:VAL:HG21	4:D5:121:ARG:HH12	1.83	0.44
4:E5:76:LYS:HZ1	4:F5:58:MET:HB2	1.81	0.44
4:D6:112:VAL:HG21	4:D6:121:ARG:HH12	1.83	0.44
3:C7:156:ARG:HA	3:C7:159:LYS:NZ	2.32	0.44
4:E7:98:ASP:HA	4:E7:108:GLN:HA	1.98	0.44
1:A8:517:GLN:HG2	1:A8:518:LEU:HD22	1.99	0.44
2:B8:194:GLY:O	2:B8:198:THR:OG1	2.29	0.44
4:D8:133:ARG:HH21	4:D8:134:ARG:HG2	1.82	0.44
1:A9:536:ILE:O	1:A9:539:MET:HG3	2.18	0.44
1:AA:521:ARG:HA	1:AA:524:ASN:ND2	2.32	0.44
2:BA:68:ALA:HB2	2:BB:47:ILE:O	2.18	0.44
4:EA:61:PRO:N	4:FA:74:THR:HG22	2.32	0.44
4:FA:75:ILE:HA	4:FA:78:LEU:HG	2.00	0.44
1:AD:517:GLN:HG2	1:AD:518:LEU:HD22	1.99	0.44
2:BD:114:GLU:HG2	2:BD:115:PRO:HD2	1.99	0.44
2:BD:189:LYS:HA	2:BD:189:LYS:HD3	1.87	0.44
3:CD:54:LEU:HD23	3:CD:84:ILE:HD13	2.00	0.44
3:CD:296:VAL:HG21	4:FE:60:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:537:ARG:CA	2:BE:21:ARG:HH22	2.23	0.44
2:BE:210:GLN:O	2:BE:214:VAL:HG23	2.18	0.44
2:BF:238:ASN:O	2:BF:242:VAL:HG23	2.17	0.44
4:EH:60:ILE:C	4:FH:74:THR:HG22	2.37	0.44
2:BI:12:ILE:HG12	2:BI:47:ILE:HG21	1.99	0.44
3:CI:156:ARG:HA	3:CI:159:LYS:NZ	2.32	0.44
4:FI:53:ASP:OD2	4:FI:56:LEU:HB3	2.17	0.44
1:AJ:521:ARG:HA	1:AJ:524:ASN:ND2	2.32	0.44
2:BJ:139:ARG:NH1	2:BK:201:GLU:OE1	2.40	0.44
2:BK:238:ASN:O	2:BK:242:VAL:HG23	2.17	0.44
4:EK:128:PRO:HA	4:EK:131:ARG:HG3	2.00	0.44
3:CL:199:VAL:HG12	3:CL:220:PRO:HA	1.99	0.44
1:AM:537:ARG:CA	2:BM:21:ARG:HH22	2.23	0.44
3:CM:296:VAL:HG13	3:CM:301:VAL:HG11	1.99	0.44
4:EM:74:THR:OG1	4:EM:75:ILE:N	2.51	0.44
3:CN:250:LEU:HD21	4:EO:79:LEU:HD13	2.00	0.44
4:FN:105:LEU:HD21	4:FN:126:ILE:HG21	1.98	0.44
2:BO:238:ASN:O	2:BO:242:VAL:HG23	2.17	0.44
3:CO:54:LEU:HD23	3:CO:84:ILE:HD13	2.00	0.44
4:DO:73:MET:SD	4:DO:78:LEU:HD23	2.58	0.44
2:BQ:238:ASN:O	2:BQ:242:VAL:HG23	2.18	0.44
2:BR:12:ILE:HD13	2:BR:55:VAL:HG21	1.98	0.44
3:CS:246:TRP:CZ2	4:ET:83:GLN:HG3	2.52	0.44
3:CS:253:GLN:NE2	4:FT:126:ILE:O	2.48	0.44
2:BT:124:ASP:OD1	2:BT:124:ASP:N	2.48	0.44
3:CT:101:ASN:ND2	3:CT:103:ASN:HD21	2.16	0.44
4:DV:112:VAL:HG21	4:DV:121:ARG:HH12	1.82	0.44
4:EV:62:VAL:O	4:FV:72:ARG:NH1	2.50	0.44
3:CW:68:GLY:HA3	3:CW:160:LEU:HD21	2.00	0.44
4:FW:97:LEU:HB2	4:FW:109:GLY:O	2.17	0.44
3:CX:253:GLN:HE22	4:FY:126:ILE:H	1.65	0.44
1:AY:536:ILE:O	1:AY:539:MET:HG3	2.18	0.44
4:D1:133:ARG:HH21	4:D1:134:ARG:HG2	1.82	0.44
4:E1:73:MET:CE	4:E1:78:LEU:HG	2.37	0.44
2:B2:238:ASN:O	2:B2:242:VAL:HG23	2.18	0.44
3:C2:294:ALA:HB3	3:C2:302:LEU:HG	2.00	0.44
4:E3:130:GLU:HG3	4:E3:133:ARG:HH22	1.81	0.44
1:A4:535:ARG:O	1:A4:538:GLU:HG3	2.17	0.44
2:B4:12:ILE:HD13	2:B4:55:VAL:HG21	1.99	0.44
2:B4:68:ALA:HB2	2:B5:47:ILE:O	2.18	0.44
2:B5:238:ASN:O	2:B5:242:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D5:133:ARG:HH12	4:D5:137:ARG:HD3	1.83	0.44
4:E5:98:ASP:HA	4:E5:108:GLN:HA	1.99	0.44
1:A6:517:GLN:HG2	1:A6:518:LEU:HD22	2.00	0.44
3:C6:69:LEU:HD23	3:C6:77:PRO:HG3	1.99	0.44
2:B7:126:HIS:O	2:B7:130:ILE:HG13	2.17	0.44
4:E7:128:PRO:HA	4:E7:131:ARG:HG3	1.99	0.44
1:A8:536:ILE:O	1:A8:539:MET:HG3	2.17	0.44
2:B8:97:ILE:HG22	2:B8:101:ARG:NE	2.32	0.44
2:B9:126:HIS:O	2:B9:130:ILE:HG13	2.17	0.44
2:B9:234:PHE:O	2:B9:238:ASN:HB2	2.18	0.44
3:C9:69:LEU:HD23	3:C9:77:PRO:HG3	1.99	0.44
2:BA:198:THR:O	2:BA:202:ILE:HG12	2.17	0.44
2:BA:238:ASN:O	2:BA:242:VAL:HG23	2.17	0.44
4:EA:98:ASP:HA	4:EA:108:GLN:HA	1.99	0.44
2:BB:114:GLU:HG2	2:BB:115:PRO:HD2	1.99	0.44
3:CB:258:GLU:CD	4:DB:73:MET:H	2.21	0.44
1:AC:517:GLN:HG2	1:AC:518:LEU:HD22	1.99	0.44
3:CC:288:LYS:NZ	4:DC:116:ASP:O	2.43	0.44
1:AD:553:GLN:NE2	1:AD:557:ASN:OD1	2.50	0.44
3:CD:107:LEU:HG	3:CD:177:VAL:HG12	2.00	0.44
3:CE:54:LEU:HD23	3:CE:84:ILE:HD13	2.00	0.44
4:DE:78:LEU:HA	4:DE:81:LEU:HG	1.99	0.44
2:BF:127:PRO:HA	2:BF:130:ILE:HD12	1.98	0.44
4:DF:133:ARG:HH22	4:DF:137:ARG:HD3	1.82	0.44
4:DG:75:ILE:H	4:DG:75:ILE:HD12	1.83	0.44
3:CH:249:ASN:HD22	4:FI:125:ILE:HG21	1.83	0.44
4:EI:58:MET:HA	4:FI:76:LYS:NZ	2.32	0.44
4:EJ:98:ASP:HA	4:EJ:108:GLN:HA	2.00	0.44
2:BK:70:ASN:HA	2:BL:15:MET:HE1	2.00	0.44
2:BL:65:GLN:O	2:BM:48:SER:OG	2.24	0.44
2:BL:126:HIS:O	2:BL:130:ILE:HG13	2.18	0.44
4:DL:112:VAL:HG21	4:DL:121:ARG:HH12	1.83	0.44
2:BM:101:ARG:HH12	2:BN:42:ALA:CB	2.30	0.44
1:AN:553:GLN:NE2	1:AN:557:ASN:OD1	2.50	0.44
4:EN:58:MET:HA	4:FN:76:LYS:NZ	2.32	0.44
1:AP:521:ARG:HA	1:AP:524:ASN:ND2	2.32	0.44
1:AP:532:MET:HA	1:AP:535:ARG:HG3	1.99	0.44
3:CP:54:LEU:HD23	3:CP:84:ILE:HD13	2.00	0.44
1:AQ:528:GLY:O	1:AQ:532:MET:HG2	2.17	0.44
2:BQ:12:ILE:HD13	2:BQ:55:VAL:HG21	1.99	0.44
2:BQ:131:ALA:HB1	2:BQ:161:ILE:CD1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BQ:214:VAL:O	2:BQ:218:VAL:HG12	2.18	0.44
3:CQ:63:ARG:NH2	3:CR:188:PHE:HA	2.32	0.44
1:AR:521:ARG:HA	1:AR:524:ASN:ND2	2.32	0.44
1:AR:553:GLN:NE2	1:AR:557:ASN:OD1	2.51	0.44
3:CS:240:ARG:NH2	3:CS:243:ASP:OD2	2.51	0.44
3:CS:246:TRP:HH2	4:FT:122:ILE:HG13	1.83	0.44
2:BT:158:MET:SD	2:BT:159:LEU:N	2.90	0.44
4:EV:58:MET:HA	4:FV:76:LYS:NZ	2.32	0.44
2:BX:309:LEU:HD23	2:BX:309:LEU:HA	1.88	0.44
4:FX:105:LEU:HD21	4:FX:126:ILE:HG21	1.99	0.44
2:BY:238:ASN:O	2:BY:242:VAL:HG23	2.17	0.44
2:B3:12:ILE:HD13	2:B3:55:VAL:HG21	1.99	0.44
4:F3:105:LEU:HD21	4:F3:126:ILE:HG21	2.00	0.44
2:B4:60:GLU:HG2	1:A5:522:ARG:HH12	1.83	0.44
4:E4:98:ASP:HA	4:E4:108:GLN:HA	1.98	0.44
4:D8:112:VAL:HG21	4:D8:121:ARG:HH12	1.83	0.44
3:C9:248:ASP:O	3:C9:252:ARG:HG2	2.18	0.44
4:D9:112:VAL:HG21	4:D9:121:ARG:HH12	1.83	0.44
2:BA:101:ARG:HH12	2:BB:42:ALA:CB	2.30	0.44
2:BB:135:VAL:HG11	2:BC:193:MET:SD	2.58	0.44
3:CB:54:LEU:HD23	3:CB:84:ILE:HD13	1.99	0.44
1:AC:521:ARG:HA	1:AC:524:ASN:ND2	2.32	0.44
2:BC:12:ILE:HG12	2:BC:47:ILE:HG21	2.00	0.44
2:BC:321:MET:HG3	2:BC:323:ILE:HG23	2.00	0.44
3:CC:107:LEU:HG	3:CC:177:VAL:HG12	2.00	0.44
3:CC:219:LEU:HD12	3:CC:223:MET:HG3	1.98	0.44
2:BD:126:HIS:O	2:BD:130:ILE:HG13	2.17	0.44
3:CD:258:GLU:CD	4:DD:72:ARG:HE	2.20	0.44
4:ED:97:LEU:HB2	4:ED:109:GLY:O	2.18	0.44
2:BE:68:ALA:HB2	2:BF:47:ILE:O	2.18	0.44
3:CF:244:GLN:HA	3:CF:247:ARG:HG3	2.00	0.44
4:EH:64:LEU:CB	4:EH:101:ILE:HG13	2.48	0.44
4:DI:112:VAL:HG21	4:DI:121:ARG:HH12	1.83	0.44
2:BJ:228:LYS:HA	2:BJ:228:LYS:HD2	1.82	0.44
1:AK:535:ARG:O	1:AK:538:GLU:HG3	2.18	0.44
2:BK:107:ILE:HG12	2:BK:136:HIS:ND1	2.33	0.44
2:BK:131:ALA:HB1	2:BK:161:ILE:CD1	2.46	0.44
4:DK:108:GLN:N	4:DK:124:ASP:OD1	2.37	0.44
3:CL:249:ASN:CB	4:FM:125:ILE:HD13	2.48	0.44
2:BP:12:ILE:HD13	2:BP:55:VAL:HG21	1.99	0.44
2:BP:126:HIS:O	2:BP:129:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BP:151:GLU:HA	2:BP:154:ARG:NH1	2.33	0.44
3:CP:249:ASN:HD22	4:FQ:125:ILE:HG21	1.82	0.44
2:BQ:161:ILE:HG22	2:BR:199:ALA:HB2	1.99	0.44
3:CQ:201:ASN:OD1	3:CQ:216:ASN:HB3	2.18	0.44
3:CR:54:LEU:HD23	3:CR:84:ILE:HD13	1.99	0.44
4:DR:78:LEU:HA	4:DR:81:LEU:HG	2.00	0.44
4:DR:101:ILE:CD1	4:ER:60:ILE:HG12	2.47	0.44
2:BS:228:LYS:HD2	2:BS:228:LYS:HA	1.83	0.44
2:BT:126:HIS:O	2:BT:130:ILE:HG13	2.18	0.44
2:BU:158:MET:CE	2:BV:218:VAL:HB	2.48	0.44
3:CU:68:GLY:HA3	3:CU:160:LEU:HD21	2.00	0.44
1:AV:528:GLY:O	1:AV:532:MET:HG2	2.18	0.44
2:BV:126:HIS:O	2:BV:130:ILE:HG13	2.17	0.44
2:BW:70:ASN:HA	2:BX:15:MET:HE1	1.98	0.44
2:BW:126:HIS:O	2:BW:130:ILE:HG13	2.18	0.44
3:CW:201:ASN:OD1	3:CW:216:ASN:HB3	2.18	0.44
2:BX:66:PHE:C	2:BY:46:GLN:HE22	2.22	0.44
2:BX:126:HIS:O	2:BX:130:ILE:HG13	2.17	0.44
4:FY:126:ILE:HG23	4:FY:130:GLU:HG2	1.99	0.44
2:B1:41:MET:SD	2:BY:77:LEU:HD22	2.57	0.44
4:E1:73:MET:HE2	4:E1:77:GLU:OE2	2.17	0.44
2:B4:210:GLN:O	2:B4:214:VAL:HG23	2.18	0.44
3:C4:101:ASN:HD21	3:C4:103:ASN:HD21	1.66	0.44
4:E4:74:THR:OG1	4:E4:75:ILE:N	2.50	0.44
3:C5:68:GLY:HA3	3:C5:160:LEU:HD21	2.00	0.44
3:C8:294:ALA:O	3:C8:301:VAL:HG22	2.18	0.44
2:BA:66:PHE:C	2:BB:46:GLN:HE22	2.21	0.44
3:CA:54:LEU:HA	3:CA:57:ILE:HG22	2.00	0.44
3:CA:54:LEU:HD23	3:CA:84:ILE:HD13	2.00	0.44
4:EA:117:LYS:HZ2	4:FA:92:LEU:HA	1.82	0.44
3:CC:54:LEU:HA	3:CC:57:ILE:HG22	2.00	0.44
3:CD:304:SER:OG	3:CD:305:GLN:N	2.51	0.44
1:AE:521:ARG:HA	1:AE:524:ASN:ND2	2.33	0.44
3:CE:181:ARG:NE	3:CE:183:GLU:OE2	2.38	0.44
4:EE:117:LYS:HZ2	4:FE:92:LEU:HA	1.83	0.44
2:BG:246:SER:HB3	2:BG:321:MET:SD	2.58	0.44
4:DH:101:ILE:CD1	4:EH:60:ILE:HG12	2.48	0.44
4:EH:121:ARG:HH22	4:FH:85:SER:N	2.16	0.44
4:EI:97:LEU:HB2	4:EI:109:GLY:O	2.18	0.44
4:DJ:112:VAL:HG21	4:DJ:121:ARG:HH12	1.83	0.44
1:AK:536:ILE:O	1:AK:539:MET:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BL:114:GLU:HG2	2:BL:115:PRO:HD2	1.99	0.44
1:AM:521:ARG:HA	1:AM:524:ASN:ND2	2.32	0.44
1:AN:536:ILE:O	1:AN:539:MET:HG3	2.18	0.44
2:BN:114:GLU:HG2	2:BN:115:PRO:HD2	1.99	0.44
4:FN:64:LEU:HA	4:FN:101:ILE:HA	2.00	0.44
4:FN:105:LEU:HD23	4:FN:131:ARG:HG3	2.00	0.44
3:CP:68:GLY:HA3	3:CP:160:LEU:HD21	2.00	0.44
3:CP:101:ASN:HD21	3:CP:103:ASN:HD21	1.65	0.44
3:CP:246:TRP:HE1	4:EQ:83:GLN:HE21	1.66	0.44
4:EP:121:ARG:HH22	4:FP:85:SER:N	2.16	0.44
1:AQ:517:GLN:HG2	1:AQ:518:LEU:HD22	1.99	0.44
1:AQ:537:ARG:CA	2:BQ:21:ARG:HH22	2.24	0.44
2:BQ:114:GLU:HG2	2:BQ:115:PRO:HD2	1.99	0.44
4:DQ:112:VAL:HG21	4:DQ:121:ARG:HH12	1.83	0.44
2:BR:229:ILE:O	2:BR:233:MET:HG2	2.17	0.44
4:ES:57:ILE:HD12	4:ES:57:ILE:HA	1.89	0.44
4:ET:58:MET:HA	4:FT:76:LYS:NZ	2.32	0.44
1:AV:521:ARG:HA	1:AV:524:ASN:ND2	2.32	0.44
2:BV:128:GLN:NE2	3:CV:132:GLY:O	2.50	0.44
4:FV:75:ILE:HA	4:FV:78:LEU:HG	1.99	0.44
2:BY:193:MET:SD	2:BY:193:MET:O	2.76	0.44
3:CY:181:ARG:NE	3:CY:183:GLU:OE2	2.40	0.44
4:EY:58:MET:HA	4:FY:76:LYS:NZ	2.31	0.44
4:EY:98:ASP:HA	4:EY:108:GLN:HA	2.00	0.44
2:B1:68:ALA:HB2	2:B2:47:ILE:O	2.17	0.44
4:D1:75:ILE:H	4:D1:75:ILE:HD12	1.83	0.44
4:E1:58:MET:HA	4:F1:76:LYS:NZ	2.32	0.44
1:A2:517:GLN:HG2	1:A2:518:LEU:HD22	1.99	0.44
2:B2:101:ARG:HH12	2:B3:42:ALA:CB	2.31	0.44
4:E2:58:MET:HA	4:F2:76:LYS:NZ	2.32	0.44
2:B5:126:HIS:O	2:B5:130:ILE:HG13	2.17	0.44
1:A6:537:ARG:CA	2:B6:21:ARG:HH22	2.24	0.44
2:B6:12:ILE:HG12	2:B6:47:ILE:HG21	1.99	0.44
3:C7:54:LEU:HA	3:C7:57:ILE:HG22	2.00	0.44
2:B8:65:GLN:O	2:B9:48:SER:OG	2.26	0.44
3:C8:54:LEU:HA	3:C8:57:ILE:HG22	2.00	0.44
3:C8:237:GLU:HG3	3:C9:111:ARG:HE	1.83	0.44
3:C9:181:ARG:NE	3:C9:183:GLU:OE2	2.40	0.44
4:D9:135:LEU:HD22	4:EA:132:MET:HB3	2.00	0.44
1:AB:532:MET:HA	1:AB:535:ARG:HG3	1.98	0.44
2:BB:126:HIS:O	2:BB:130:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:238:ASN:O	2:BB:242:VAL:HG23	2.18	0.44
3:CB:54:LEU:HA	3:CB:57:ILE:HG22	2.00	0.44
2:BC:158:MET:SD	2:BC:159:LEU:N	2.91	0.44
2:BC:329:THR:HB	2:BD:298:LEU:HD22	2.00	0.44
3:CD:253:GLN:O	4:FE:104:TYR:OH	2.20	0.44
4:ED:62:VAL:O	4:FD:72:ARG:NH1	2.51	0.44
4:ED:121:ARG:HH22	4:FD:85:SER:N	2.16	0.44
2:BE:114:GLU:HG2	2:BE:115:PRO:HD2	2.00	0.44
3:CE:199:VAL:HG12	3:CE:220:PRO:HA	1.99	0.44
3:CE:304:SER:OG	3:CE:305:GLN:N	2.51	0.44
2:BF:114:GLU:HG2	2:BF:115:PRO:HD2	1.99	0.44
2:BG:12:ILE:HG12	2:BG:47:ILE:HG21	2.00	0.44
1:AH:553:GLN:NE2	1:AH:557:ASN:OD1	2.51	0.44
2:BH:114:GLU:HG2	2:BH:115:PRO:HD2	1.99	0.44
2:BH:126:HIS:O	2:BH:130:ILE:HG13	2.17	0.44
1:AI:532:MET:HE1	2:BI:56:LEU:HB2	2.00	0.44
4:EL:121:ARG:HH22	4:FL:85:SER:N	2.16	0.44
2:BM:229:ILE:O	2:BM:233:MET:HG2	2.18	0.44
3:CM:288:LYS:HZ3	4:DM:118:TYR:H	1.65	0.44
1:AN:537:ARG:CA	2:BN:21:ARG:HH22	2.24	0.44
2:BN:77:LEU:HB2	2:BO:41:MET:SD	2.58	0.44
2:BN:124:ASP:OD1	2:BN:124:ASP:N	2.48	0.44
3:CN:68:GLY:HA3	3:CN:160:LEU:HD21	1.98	0.44
3:CO:304:SER:OG	3:CO:305:GLN:N	2.51	0.44
2:BQ:250:LEU:O	2:BQ:254:VAL:HG13	2.18	0.44
3:CQ:54:LEU:HD23	3:CQ:84:ILE:HD13	2.00	0.44
3:CQ:242:GLU:HB2	4:ER:83:GLN:HE22	1.83	0.44
2:BR:166:GLY:HA2	2:BS:190:ARG:HH22	1.82	0.44
2:BR:228:LYS:HA	2:BR:228:LYS:HD2	1.83	0.44
2:BS:161:ILE:HG22	2:BT:199:ALA:HB2	2.00	0.44
3:CS:54:LEU:HD23	3:CS:84:ILE:HD13	1.99	0.44
4:ES:121:ARG:HH22	4:FS:85:SER:N	2.16	0.44
3:CT:201:ASN:OD1	3:CT:216:ASN:HB3	2.18	0.44
2:BU:124:ASP:OD1	2:BU:124:ASP:N	2.48	0.44
2:BU:250:LEU:O	2:BU:254:VAL:HG13	2.18	0.44
1:AV:552:ARG:HD2	2:BW:45:ARG:HH12	1.83	0.44
4:FW:101:ILE:HG12	4:FW:106:ILE:HD11	2.00	0.44
2:BX:158:MET:SD	2:BX:159:LEU:N	2.90	0.44
4:EY:82:THR:HB	4:EY:83:GLN:OE1	2.18	0.44
1:A1:517:GLN:HG2	1:A1:518:LEU:HD22	1.99	0.43
2:B1:12:ILE:HD13	2:B1:55:VAL:HG21	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C1:111:ARG:HE	3:CY:237:GLU:HG3	1.82	0.43
1:A2:521:ARG:HA	1:A2:524:ASN:ND2	2.32	0.43
2:B3:127:PRO:HA	2:B3:130:ILE:HD12	1.99	0.43
4:D3:135:LEU:HD22	4:E4:132:MET:HB3	2.00	0.43
3:C4:68:GLY:HA3	3:C4:160:LEU:HD21	2.00	0.43
3:C4:199:VAL:HG12	3:C4:220:PRO:HA	1.99	0.43
4:F4:75:ILE:HA	4:F4:78:LEU:HG	1.99	0.43
3:C5:246:TRP:HH2	4:F6:122:ILE:HG13	1.83	0.43
1:A6:551:ILE:O	1:A6:555:MET:HG2	2.17	0.43
3:C6:268:ILE:HG23	3:C6:286:ILE:HD13	2.00	0.43
3:C7:112:GLY:HA3	3:C7:223:MET:SD	2.58	0.43
2:B8:229:ILE:O	2:B8:233:MET:HG2	2.18	0.43
3:C9:54:LEU:HA	3:C9:57:ILE:HG22	2.00	0.43
3:CB:244:GLN:HA	3:CB:247:ARG:CG	2.48	0.43
2:BD:229:ILE:O	2:BD:233:MET:HG2	2.18	0.43
4:EE:121:ARG:HH22	4:FE:85:SER:N	2.16	0.43
4:EF:64:LEU:CB	4:EF:101:ILE:HG13	2.48	0.43
4:EF:83:GLN:OE1	4:EF:83:GLN:N	2.42	0.43
2:BG:210:GLN:O	2:BG:214:VAL:HG23	2.18	0.43
3:CG:304:SER:OG	3:CG:305:GLN:N	2.51	0.43
4:EG:71:THR:OG1	4:EG:89:LEU:HG	2.18	0.43
2:BI:238:ASN:O	2:BI:242:VAL:HG23	2.18	0.43
1:AJ:535:ARG:O	1:AJ:538:GLU:HG3	2.18	0.43
2:BJ:70:ASN:HA	2:BK:15:MET:HE1	2.00	0.43
4:EJ:97:LEU:HB2	4:EJ:109:GLY:O	2.18	0.43
3:CK:201:ASN:OD1	3:CK:216:ASN:HB3	2.18	0.43
1:AM:535:ARG:O	1:AM:538:GLU:HG3	2.18	0.43
2:BM:114:GLU:HG2	2:BM:115:PRO:HD2	1.99	0.43
2:BM:126:HIS:O	2:BM:129:ILE:HG22	2.17	0.43
2:BM:235:LEU:HB3	2:BM:236:PHE:H	1.68	0.43
3:CM:201:ASN:OD1	3:CM:216:ASN:HB3	2.18	0.43
2:BN:233:MET:O	2:BN:313:ARG:NH2	2.51	0.43
3:CN:201:ASN:OD1	3:CN:216:ASN:HB3	2.18	0.43
2:BO:77:LEU:HD22	2:BP:41:MET:SD	2.58	0.43
2:BO:233:MET:O	2:BO:313:ARG:NH2	2.51	0.43
3:CO:296:VAL:O	3:CO:299:VAL:HG12	2.18	0.43
4:EO:121:ARG:HH22	4:FO:85:SER:N	2.16	0.43
2:BP:300:GLN:O	2:BP:304:GLU:HG2	2.18	0.43
3:CP:220:PRO:O	3:CP:223:MET:HB2	2.18	0.43
2:BQ:227:GLN:HA	2:BQ:230:ILE:HG12	2.01	0.43
3:CQ:68:GLY:HA3	3:CQ:160:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EQ:97:LEU:HB2	4:EQ:109:GLY:O	2.18	0.43
1:AR:517:GLN:HG2	1:AR:518:LEU:HD22	1.99	0.43
4:ER:97:LEU:HB2	4:ER:109:GLY:O	2.18	0.43
4:FR:105:LEU:HD23	4:FR:131:ARG:HG3	2.00	0.43
1:AS:517:GLN:HG2	1:AS:518:LEU:HD22	2.00	0.43
1:AS:535:ARG:HD2	1:AS:536:ILE:N	2.33	0.43
3:CS:258:GLU:CD	4:DS:73:MET:H	2.22	0.43
1:AT:517:GLN:HG2	1:AT:518:LEU:HD22	1.99	0.43
2:BT:126:HIS:O	2:BT:129:ILE:HG22	2.16	0.43
2:BT:157:VAL:O	2:BT:161:ILE:HG12	2.18	0.43
4:ET:64:LEU:CB	4:ET:101:ILE:HG13	2.47	0.43
2:BV:12:ILE:HG12	2:BV:47:ILE:HG21	1.98	0.43
3:CV:64:GLN:O	3:CV:67:MET:HG3	2.18	0.43
4:EV:73:MET:CE	4:FV:64:LEU:HD23	2.48	0.43
4:EV:98:ASP:HA	4:EV:108:GLN:HA	2.00	0.43
3:CW:199:VAL:HG12	3:CW:220:PRO:HA	1.99	0.43
3:CX:64:GLN:O	3:CX:67:MET:HG3	2.18	0.43
4:DX:105:LEU:C	4:DX:131:ARG:HH12	2.21	0.43
2:B1:12:ILE:HG12	2:B1:47:ILE:HG21	1.99	0.43
2:B1:210:GLN:O	2:B1:214:VAL:HG23	2.19	0.43
3:C1:188:PHE:CB	3:CY:63:ARG:HH22	2.31	0.43
1:A2:532:MET:O	1:A2:535:ARG:HG3	2.18	0.43
1:A2:549:LEU:CD1	2:B3:46:GLN:H	2.30	0.43
1:A3:521:ARG:HA	1:A3:524:ASN:ND2	2.32	0.43
2:B4:66:PHE:C	2:B5:46:GLN:HE22	2.21	0.43
4:D4:112:VAL:HG21	4:D4:121:ARG:HH12	1.83	0.43
2:B5:329:THR:HB	2:B6:298:LEU:HD22	2.01	0.43
4:E5:58:MET:HA	4:F5:76:LYS:HZ1	1.83	0.43
2:B7:70:ASN:HA	2:B8:15:MET:HE1	2.00	0.43
2:B7:229:ILE:O	2:B7:233:MET:HG2	2.18	0.43
4:D7:133:ARG:HH21	4:D7:134:ARG:HG2	1.82	0.43
4:E8:67:GLU:CD	4:F8:65:THR:HG21	2.38	0.43
4:EA:121:ARG:HH22	4:FA:85:SER:N	2.16	0.43
1:AB:536:ILE:O	1:AB:539:MET:HG3	2.18	0.43
2:BB:229:ILE:O	2:BB:233:MET:HG2	2.18	0.43
3:CB:64:GLN:HG2	3:CB:164:GLY:HA2	2.00	0.43
4:FC:117:LYS:HD3	4:FC:117:LYS:HA	1.86	0.43
3:CF:64:GLN:HG2	3:CF:164:GLY:HA2	2.01	0.43
3:CF:64:GLN:O	3:CF:67:MET:HG3	2.18	0.43
3:CF:257:SER:HB3	4:FG:104:TYR:CD2	2.52	0.43
3:CF:304:SER:OG	3:CF:305:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DF:73:MET:SD	4:DF:78:LEU:HB3	2.57	0.43
4:EF:98:ASP:HA	4:EF:108:GLN:HA	2.00	0.43
2:BG:229:ILE:O	2:BG:233:MET:HG2	2.18	0.43
3:CG:64:GLN:O	3:CG:67:MET:HG3	2.18	0.43
3:CG:296:VAL:O	3:CG:299:VAL:HG12	2.18	0.43
3:CI:69:LEU:HD23	3:CI:77:PRO:HG3	1.99	0.43
2:BJ:126:HIS:O	2:BJ:130:ILE:HG13	2.17	0.43
4:EK:58:MET:HA	4:FK:76:LYS:NZ	2.32	0.43
2:BL:229:ILE:O	2:BL:233:MET:HG2	2.18	0.43
1:AN:517:GLN:HG2	1:AN:518:LEU:HD22	2.00	0.43
2:BN:126:HIS:O	2:BN:130:ILE:HG13	2.18	0.43
3:CN:181:ARG:NE	3:CN:183:GLU:OE2	2.40	0.43
4:EN:76:LYS:NZ	4:FN:58:MET:HB2	2.33	0.43
2:BO:12:ILE:HG12	2:BO:47:ILE:HG21	1.99	0.43
4:FO:101:ILE:HG12	4:FO:106:ILE:HD11	2.00	0.43
2:BP:155:HIS:O	2:BP:158:MET:HG2	2.18	0.43
1:AR:528:GLY:O	1:AR:532:MET:HG2	2.17	0.43
2:BS:114:GLU:HG2	2:BS:115:PRO:HD2	2.00	0.43
2:BS:229:ILE:O	2:BS:233:MET:HG2	2.18	0.43
4:DS:101:ILE:CD1	4:ES:60:ILE:HG12	2.49	0.43
2:BT:127:PRO:HA	2:BT:130:ILE:HD12	2.00	0.43
4:ET:97:LEU:HB2	4:ET:109:GLY:O	2.19	0.43
2:BU:101:ARG:HH12	2:BV:42:ALA:CB	2.31	0.43
3:CU:201:ASN:OD1	3:CU:216:ASN:HB3	2.18	0.43
3:CU:242:GLU:HB2	3:CU:246:TRP:CD1	2.53	0.43
4:EU:105:LEU:O	4:EU:131:ARG:NH2	2.44	0.43
2:BV:233:MET:O	2:BV:313:ARG:NH2	2.52	0.43
3:CV:107:LEU:HG	3:CV:177:VAL:HG12	2.00	0.43
4:DV:133:ARG:HH21	4:DV:134:ARG:HG2	1.82	0.43
4:FV:60:ILE:O	4:FV:60:ILE:HG13	2.18	0.43
2:BW:229:ILE:O	2:BW:233:MET:HG2	2.18	0.43
1:AX:521:ARG:HA	1:AX:524:ASN:ND2	2.32	0.43
4:FX:65:THR:HG22	4:FX:66:VAL:N	2.34	0.43
4:EY:71:THR:HG22	4:EY:73:MET:HB2	2.00	0.43
4:E2:98:ASP:HA	4:E2:108:GLN:HA	2.00	0.43
2:B3:250:LEU:O	2:B3:254:VAL:HG13	2.19	0.43
2:B4:78:ARG:NH1	2:B4:91:SER:OG	2.42	0.43
4:D5:105:LEU:C	4:D5:131:ARG:HH12	2.20	0.43
2:B6:235:LEU:HD23	2:B6:235:LEU:HA	1.82	0.43
2:B6:238:ASN:O	2:B6:242:VAL:HG23	2.18	0.43
3:C8:54:LEU:HD23	3:C8:84:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C9:54:LEU:HD23	3:C9:84:ILE:HD13	2.00	0.43
3:CA:68:GLY:HA3	3:CA:160:LEU:HD21	2.00	0.43
3:CA:69:LEU:HD23	3:CA:77:PRO:HG3	1.99	0.43
2:BB:136:HIS:NE2	2:BC:193:MET:HG3	2.32	0.43
3:CB:107:LEU:HG	3:CB:177:VAL:HG12	2.00	0.43
4:FB:109:GLY:HA2	4:FB:123:THR:HG23	2.00	0.43
3:CC:64:GLN:O	3:CC:67:MET:HG3	2.18	0.43
2:BD:238:ASN:O	2:BD:242:VAL:HG23	2.17	0.43
4:ED:64:LEU:CB	4:ED:101:ILE:HG13	2.48	0.43
2:BE:233:MET:O	2:BE:313:ARG:NH2	2.52	0.43
2:BE:238:ASN:O	2:BE:242:VAL:HG23	2.17	0.43
4:DE:133:ARG:HH21	4:DE:134:ARG:HG2	1.82	0.43
2:BH:12:ILE:HG12	2:BH:47:ILE:HG21	2.00	0.43
4:EH:58:MET:HA	4:FH:76:LYS:HZ1	1.81	0.43
1:AI:521:ARG:HA	1:AI:524:ASN:ND2	2.32	0.43
3:CI:295:HIS:HB2	3:CI:299:VAL:O	2.18	0.43
2:BJ:238:ASN:O	2:BJ:242:VAL:HG23	2.18	0.43
4:EJ:61:PRO:CB	4:FJ:72:ARG:HE	2.32	0.43
4:EJ:121:ARG:HH22	4:FJ:85:SER:N	2.16	0.43
3:CK:68:GLY:HA3	3:CK:160:LEU:HD21	2.00	0.43
4:EK:121:ARG:HH22	4:FK:85:SER:N	2.16	0.43
2:BM:250:LEU:O	2:BM:254:VAL:HG13	2.18	0.43
3:CM:68:GLY:HA3	3:CM:160:LEU:HD21	2.00	0.43
4:EM:64:LEU:CB	4:EM:101:ILE:HG13	2.49	0.43
1:AN:521:ARG:HA	1:AN:524:ASN:ND2	2.32	0.43
3:CO:181:ARG:NE	3:CO:183:GLU:OE2	2.40	0.43
2:BP:229:ILE:O	2:BP:233:MET:HG2	2.19	0.43
3:CR:304:SER:OG	3:CR:305:GLN:N	2.51	0.43
1:AS:521:ARG:HA	1:AS:524:ASN:ND2	2.32	0.43
3:CS:68:GLY:HA3	3:CS:160:LEU:HD21	2.00	0.43
4:FS:75:ILE:HA	4:FS:78:LEU:HG	1.99	0.43
3:CT:54:LEU:HD23	3:CT:84:ILE:HD13	2.00	0.43
3:CT:181:ARG:NE	3:CT:183:GLU:OE2	2.38	0.43
2:BU:235:LEU:HB3	2:BU:236:PHE:H	1.68	0.43
3:CU:101:ASN:ND2	3:CU:103:ASN:HD21	2.16	0.43
1:AV:537:ARG:CA	2:BV:21:ARG:HH22	2.24	0.43
2:BV:210:GLN:O	2:BV:214:VAL:HG23	2.18	0.43
3:CV:68:GLY:HA3	3:CV:160:LEU:HD21	2.01	0.43
3:CV:165:TYR:CD2	3:CV:177:VAL:HG11	2.54	0.43
3:CV:296:VAL:O	3:CV:299:VAL:HG12	2.18	0.43
2:BX:77:LEU:HD22	2:BY:41:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:201:ASN:OD1	3:CX:216:ASN:HB3	2.18	0.43
3:CX:288:LYS:HA	3:CX:288:LYS:HD3	1.85	0.43
2:BY:233:MET:O	2:BY:313:ARG:NH2	2.52	0.43
1:A1:521:ARG:HA	1:A1:524:ASN:ND2	2.33	0.43
2:B2:229:ILE:O	2:B2:233:MET:HG2	2.18	0.43
4:E3:117:LYS:HZ2	4:F3:92:LEU:HA	1.81	0.43
2:B4:228:LYS:HA	2:B4:228:LYS:HD2	1.83	0.43
2:B4:229:ILE:O	2:B4:233:MET:HG2	2.18	0.43
3:C4:165:TYR:CD2	3:C4:177:VAL:HG11	2.53	0.43
3:C6:54:LEU:HA	3:C6:57:ILE:HG22	2.00	0.43
2:B7:233:MET:O	2:B7:313:ARG:NH2	2.52	0.43
3:C7:107:LEU:HG	3:C7:177:VAL:HG12	2.00	0.43
1:A9:517:GLN:HG2	1:A9:518:LEU:HD22	2.00	0.43
2:BA:12:ILE:HG12	2:BA:47:ILE:HG21	2.00	0.43
3:CA:304:SER:OG	3:CA:305:GLN:N	2.51	0.43
3:CB:64:GLN:O	3:CB:67:MET:HG3	2.18	0.43
3:CB:304:SER:OG	3:CB:305:GLN:N	2.52	0.43
4:DB:78:LEU:HA	4:DB:81:LEU:HG	2.00	0.43
4:FB:65:THR:HG22	4:FB:66:VAL:N	2.33	0.43
4:EC:76:LYS:NZ	4:FC:58:MET:HB2	2.33	0.43
4:EC:97:LEU:HB2	4:EC:109:GLY:O	2.18	0.43
3:CD:54:LEU:HA	3:CD:57:ILE:HG22	2.00	0.43
3:CE:54:LEU:HA	3:CE:57:ILE:HG22	2.00	0.43
3:CE:288:LYS:HA	3:CE:288:LYS:HD3	1.85	0.43
4:EE:97:LEU:HB2	4:EE:109:GLY:O	2.18	0.43
4:EE:98:ASP:HA	4:EE:108:GLN:HA	2.00	0.43
4:FE:75:ILE:HA	4:FE:78:LEU:HG	2.00	0.43
3:CF:54:LEU:HA	3:CF:57:ILE:HG22	2.00	0.43
2:BG:60:GLU:CG	1:AH:522:ARG:HH12	2.30	0.43
2:BH:12:ILE:HD13	2:BH:55:VAL:HG21	2.01	0.43
1:AI:517:GLN:HG2	1:AI:518:LEU:HD22	1.99	0.43
3:CI:107:LEU:HG	3:CI:177:VAL:HG12	2.01	0.43
4:EI:121:ARG:HH22	4:FI:85:SER:N	2.16	0.43
1:AJ:517:GLN:HG2	1:AJ:518:LEU:HD22	1.99	0.43
2:BJ:12:ILE:HD13	2:BJ:55:VAL:HG21	2.00	0.43
2:BJ:114:GLU:HG2	2:BJ:115:PRO:HD2	1.99	0.43
1:AK:517:GLN:HG2	1:AK:518:LEU:HD22	1.99	0.43
4:DK:112:VAL:HG21	4:DK:121:ARG:HH12	1.83	0.43
4:FK:54:ILE:HG13	4:FK:55:ASP:H	1.83	0.43
3:CN:304:SER:OG	3:CN:305:GLN:N	2.51	0.43
4:EO:74:THR:OG1	4:EO:75:ILE:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:222:SER:HA	3:CP:225:GLU:HG2	2.00	0.43
4:EQ:58:MET:HA	4:FQ:76:LYS:NZ	2.33	0.43
4:EQ:98:ASP:HA	4:EQ:108:GLN:HA	2.01	0.43
2:BR:147:ALA:HA	2:BS:210:GLN:HE21	1.83	0.43
3:CR:54:LEU:HA	3:CR:57:ILE:HG22	2.00	0.43
3:CR:68:GLY:HA3	3:CR:160:LEU:HD21	2.01	0.43
3:CR:201:ASN:OD1	3:CR:216:ASN:HB3	2.18	0.43
4:FR:101:ILE:HG12	4:FR:106:ILE:HD11	2.01	0.43
2:BS:233:MET:O	2:BS:313:ARG:NH2	2.52	0.43
2:BU:229:ILE:O	2:BU:233:MET:HG2	2.18	0.43
3:CU:54:LEU:HA	3:CU:57:ILE:HG22	2.00	0.43
2:BW:235:LEU:HB3	2:BW:236:PHE:H	1.68	0.43
3:CW:253:GLN:NE2	4:FX:126:ILE:HB	2.33	0.43
4:EW:58:MET:HA	4:FW:76:LYS:NZ	2.32	0.43
1:AX:549:LEU:CD1	2:BY:46:GLN:H	2.30	0.43
2:BX:235:LEU:HD23	2:BX:235:LEU:HA	1.81	0.43
3:CX:68:GLY:HA3	3:CX:160:LEU:HD21	2.00	0.43
3:CY:101:ASN:HD21	3:CY:103:ASN:HD21	1.66	0.43
4:DY:101:ILE:CD1	4:EY:60:ILE:HG12	2.49	0.43
4:EY:97:LEU:HB2	4:EY:109:GLY:O	2.18	0.43
4:FY:75:ILE:HA	4:FY:78:LEU:HG	1.99	0.43
2:B2:70:ASN:HA	2:B3:15:MET:HE1	1.99	0.43
4:D2:75:ILE:H	4:D2:75:ILE:HD12	1.83	0.43
4:E2:97:LEU:HG	4:E2:111:VAL:HG23	2.01	0.43
1:A3:517:GLN:HG2	1:A3:518:LEU:HD22	1.99	0.43
4:E3:58:MET:HA	4:F3:76:LYS:NZ	2.33	0.43
4:F3:54:ILE:HG13	4:F3:55:ASP:H	1.83	0.43
3:C4:54:LEU:HD23	3:C4:84:ILE:HD13	1.99	0.43
2:B5:229:ILE:O	2:B5:233:MET:HG2	2.18	0.43
3:C7:64:GLN:HG2	3:C7:164:GLY:HA2	2.00	0.43
3:C7:222:SER:HA	3:C7:225:GLU:HG2	2.00	0.43
3:C7:296:VAL:HG13	3:C7:301:VAL:HG11	1.99	0.43
4:E9:121:ARG:HH22	4:F9:85:SER:N	2.16	0.43
1:AB:517:GLN:HG2	1:AB:518:LEU:HD22	2.00	0.43
4:EB:58:MET:HA	4:FB:76:LYS:NZ	2.32	0.43
4:FB:54:ILE:HG13	4:FB:55:ASP:H	1.84	0.43
1:AC:536:ILE:O	1:AC:539:MET:HG3	2.18	0.43
1:AD:536:ILE:O	1:AD:539:MET:HG3	2.19	0.43
3:CD:253:GLN:CD	4:FE:106:ILE:HA	2.38	0.43
4:DD:80:ARG:NH1	4:FE:52:GLN:HB2	2.33	0.43
2:BE:229:ILE:O	2:BE:233:MET:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:250:LEU:O	2:BE:254:VAL:HG13	2.19	0.43
2:BF:12:ILE:HD13	2:BF:55:VAL:HG21	1.99	0.43
2:BF:129:ILE:HA	2:BF:132:THR:HG22	2.01	0.43
2:BG:70:ASN:HA	2:BH:15:MET:HE1	2.00	0.43
3:CG:64:GLN:HG2	3:CG:164:GLY:HA2	2.00	0.43
3:CG:107:LEU:HG	3:CG:177:VAL:HG12	2.00	0.43
4:DG:77:GLU:OE1	4:DG:77:GLU:N	2.51	0.43
4:EG:97:LEU:HB2	4:EG:109:GLY:O	2.18	0.43
1:AH:518:LEU:HB3	1:AH:522:ARG:HH21	1.83	0.43
4:EH:97:LEU:HB2	4:EH:109:GLY:O	2.19	0.43
1:AI:536:ILE:O	1:AI:539:MET:HG3	2.18	0.43
2:BI:12:ILE:HD13	2:BI:55:VAL:HG21	2.00	0.43
4:DI:77:GLU:OE1	4:DI:77:GLU:N	2.51	0.43
3:CJ:64:GLN:O	3:CJ:67:MET:HG3	2.18	0.43
4:DJ:77:GLU:OE1	4:DJ:77:GLU:N	2.51	0.43
2:BK:12:ILE:HG12	2:BK:47:ILE:HG21	2.00	0.43
3:CL:110:LEU:HD12	3:CL:223:MET:HE3	2.00	0.43
4:EL:67:GLU:CD	4:FL:65:THR:HG21	2.39	0.43
2:BM:12:ILE:HD13	2:BM:55:VAL:HG21	2.00	0.43
3:CM:304:SER:OG	3:CM:305:GLN:N	2.51	0.43
4:EM:61:PRO:N	4:FM:74:THR:HG22	2.33	0.43
4:EM:62:VAL:O	4:FM:72:ARG:NH1	2.52	0.43
2:BO:124:ASP:N	2:BO:124:ASP:OD1	2.48	0.43
3:CP:54:LEU:HA	3:CP:57:ILE:HG22	2.00	0.43
3:CP:304:SER:OG	3:CP:305:GLN:N	2.52	0.43
4:EP:97:LEU:HB2	4:EP:109:GLY:O	2.18	0.43
4:FP:105:LEU:HG	4:FP:126:ILE:HG13	2.00	0.43
2:BQ:233:MET:O	2:BQ:313:ARG:NH2	2.51	0.43
3:CQ:294:ALA:HB3	3:CQ:302:LEU:HG	2.01	0.43
4:ER:64:LEU:CB	4:ER:101:ILE:HG13	2.48	0.43
2:BS:235:LEU:HB3	2:BS:236:PHE:H	1.68	0.43
3:CS:54:LEU:HA	3:CS:57:ILE:HG22	2.00	0.43
1:AT:521:ARG:HA	1:AT:524:ASN:ND2	2.32	0.43
2:BT:12:ILE:HG12	2:BT:47:ILE:HG21	2.00	0.43
2:BU:70:ASN:HA	2:BV:15:MET:HE1	2.00	0.43
2:BV:77:LEU:HD22	2:BW:41:MET:SD	2.58	0.43
2:BV:131:ALA:HB1	2:BV:161:ILE:CD1	2.48	0.43
3:CV:240:ARG:NH2	3:CV:243:ASP:OD2	2.51	0.43
4:DV:135:LEU:HD22	4:EW:132:MET:HB3	2.01	0.43
4:EV:77:GLU:O	4:EV:81:LEU:HG	2.18	0.43
1:AW:521:ARG:HA	1:AW:524:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EW:64:LEU:CB	4:EW:101:ILE:HG13	2.49	0.43
2:BX:12:ILE:HD13	2:BX:55:VAL:HG21	2.00	0.43
3:CX:256:HIS:NE2	4:FY:104:TYR:CZ	2.86	0.43
2:BY:229:ILE:O	2:BY:233:MET:HG2	2.19	0.43
4:EY:64:LEU:CB	4:EY:101:ILE:HG13	2.49	0.43
3:C1:181:ARG:NE	3:C1:183:GLU:OE2	2.37	0.43
3:C2:68:GLY:HA3	3:C2:160:LEU:HD21	2.00	0.43
3:C2:296:VAL:O	3:C2:299:VAL:HG12	2.19	0.43
2:B3:233:MET:O	2:B3:313:ARG:NH2	2.52	0.43
2:B4:233:MET:O	2:B4:313:ARG:NH2	2.52	0.43
3:C5:54:LEU:HA	3:C5:57:ILE:HG22	2.00	0.43
2:B6:309:LEU:HD23	2:B6:309:LEU:HA	1.88	0.43
4:E6:97:LEU:HB2	4:E6:109:GLY:O	2.18	0.43
2:B7:78:ARG:NH1	2:B7:91:SER:OG	2.45	0.43
3:C7:199:VAL:HG12	3:C7:220:PRO:HA	2.00	0.43
4:D7:112:VAL:HG21	4:D7:121:ARG:HH12	1.83	0.43
2:B8:210:GLN:O	2:B8:214:VAL:HG23	2.19	0.43
2:B8:238:ASN:O	2:B8:242:VAL:HG23	2.18	0.43
3:C8:64:GLN:HG2	3:C8:164:GLY:HA2	2.00	0.43
3:C8:64:GLN:O	3:C8:67:MET:HG3	2.18	0.43
2:B9:194:GLY:O	2:B9:198:THR:OG1	2.30	0.43
2:B9:203:ILE:HG23	2:B9:206:MET:HE3	2.00	0.43
3:C9:304:SER:OG	3:C9:305:GLN:N	2.51	0.43
3:CA:260:GLU:O	3:CA:296:VAL:HG12	2.19	0.43
4:DA:101:ILE:CD1	4:EA:60:ILE:HG12	2.48	0.43
4:EB:97:LEU:HB2	4:EB:109:GLY:O	2.18	0.43
2:BC:300:GLN:O	2:BC:304:GLU:HG2	2.19	0.43
3:CC:222:SER:HA	3:CC:225:GLU:HG2	2.01	0.43
4:FC:63:LYS:O	4:FC:102:ASN:N	2.44	0.43
2:BD:233:MET:O	2:BD:313:ARG:NH2	2.52	0.43
2:BD:250:LEU:O	2:BD:254:VAL:HG13	2.19	0.43
3:CD:69:LEU:HD23	3:CD:77:PRO:HG3	1.99	0.43
3:CE:165:TYR:CD2	3:CE:177:VAL:HG11	2.54	0.43
3:CF:101:ASN:HD21	3:CF:103:ASN:HD21	1.65	0.43
3:CF:117:VAL:CG1	3:CF:216:ASN:HB2	2.49	0.43
3:CF:296:VAL:O	3:CF:299:VAL:HG12	2.19	0.43
2:BG:147:ALA:HA	2:BH:210:GLN:HE21	1.82	0.43
3:CG:54:LEU:HA	3:CG:57:ILE:HG22	2.00	0.43
2:BH:78:ARG:NH1	2:BH:91:SER:OG	2.45	0.43
2:BH:233:MET:O	2:BH:313:ARG:NH2	2.52	0.43
3:CH:69:LEU:HD23	3:CH:77:PRO:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:78:ARG:NH1	2:BI:91:SER:OG	2.45	0.43
2:BI:114:GLU:HG2	2:BI:115:PRO:HD2	2.00	0.43
2:BI:229:ILE:O	2:BI:233:MET:HG2	2.18	0.43
3:CI:304:SER:OG	3:CI:305:GLN:N	2.51	0.43
4:EI:64:LEU:CB	4:EI:101:ILE:HG13	2.49	0.43
4:EI:98:ASP:HA	4:EI:108:GLN:HA	2.00	0.43
2:BJ:233:MET:O	2:BJ:313:ARG:NH2	2.52	0.43
4:EL:60:ILE:C	4:FL:74:THR:HG22	2.39	0.43
4:EM:121:ARG:HH22	4:FM:85:SER:N	2.16	0.43
2:BN:12:ILE:HG12	2:BN:47:ILE:HG21	1.99	0.43
3:CO:220:PRO:O	3:CO:223:MET:HB2	2.19	0.43
4:DO:112:VAL:HG21	4:DO:121:ARG:HH12	1.83	0.43
3:CP:258:GLU:OE2	4:DP:73:MET:N	2.51	0.43
2:BQ:12:ILE:HG12	2:BQ:47:ILE:HG21	1.99	0.43
2:BQ:101:ARG:HH12	2:BR:42:ALA:HB3	1.82	0.43
3:CQ:240:ARG:NH2	3:CQ:243:ASP:OD2	2.52	0.43
2:BR:12:ILE:HG12	2:BR:47:ILE:HG21	2.00	0.43
2:BR:233:MET:O	2:BR:313:ARG:NH2	2.51	0.43
2:BR:235:LEU:HB3	2:BR:236:PHE:H	1.67	0.43
2:BR:250:LEU:O	2:BR:254:VAL:HG13	2.18	0.43
3:CR:249:ASN:CG	4:FS:125:ILE:HD13	2.39	0.43
4:ER:121:ARG:HH22	4:FR:85:SER:N	2.16	0.43
2:BS:12:ILE:HG12	2:BS:47:ILE:HG21	2.00	0.43
2:BS:300:GLN:O	2:BS:304:GLU:HG2	2.19	0.43
4:ES:97:LEU:HB2	4:ES:109:GLY:O	2.19	0.43
3:CT:68:GLY:HA3	3:CT:160:LEU:HD21	2.00	0.43
4:ET:121:ARG:HH22	4:FT:85:SER:N	2.16	0.43
4:FT:75:ILE:HA	4:FT:78:LEU:HG	2.00	0.43
1:AU:517:GLN:HG2	1:AU:518:LEU:HD22	1.99	0.43
3:CV:54:LEU:HD23	3:CV:84:ILE:HD13	2.00	0.43
3:CV:101:ASN:HD21	3:CV:103:ASN:HD21	1.66	0.43
3:CW:253:GLN:OE1	4:FX:125:ILE:HG23	2.19	0.43
4:EW:121:ARG:HH22	4:FW:85:SER:N	2.16	0.43
2:BX:210:GLN:O	2:BX:214:VAL:HG23	2.19	0.43
3:CX:54:LEU:HD23	3:CX:84:ILE:HD13	1.99	0.43
3:CX:112:GLY:HA3	3:CX:223:MET:SD	2.58	0.43
3:CX:296:VAL:O	3:CX:299:VAL:HG12	2.19	0.43
2:BY:129:ILE:HA	2:BY:132:THR:HG22	1.99	0.43
3:C1:247:ARG:HH22	4:E2:79:LEU:C	2.18	0.43
4:D1:135:LEU:HD22	4:E2:132:MET:HB3	2.01	0.43
3:C2:201:ASN:OD1	3:C2:216:ASN:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E2:121:ARG:HH22	4:F2:85:SER:N	2.16	0.43
2:B3:68:ALA:HB2	2:B4:47:ILE:O	2.18	0.43
2:B5:210:GLN:O	2:B5:214:VAL:HG23	2.19	0.43
2:B5:233:MET:O	2:B5:313:ARG:NH2	2.52	0.43
2:B6:233:MET:O	2:B6:313:ARG:NH2	2.52	0.43
3:C6:201:ASN:OD1	3:C6:216:ASN:HB3	2.18	0.43
4:E6:121:ARG:HH22	4:F6:85:SER:N	2.16	0.43
2:B7:250:LEU:O	2:B7:254:VAL:HG13	2.19	0.43
3:C7:201:ASN:OD1	3:C7:216:ASN:HB3	2.18	0.43
3:C7:304:SER:OG	3:C7:305:GLN:N	2.51	0.43
4:F7:75:ILE:HA	4:F7:78:LEU:HG	2.01	0.43
3:C8:199:VAL:HG12	3:C8:220:PRO:HA	2.00	0.43
3:C8:222:SER:HA	3:C8:225:GLU:HG2	2.00	0.43
3:C8:288:LYS:HZ1	4:D8:117:LYS:HA	1.83	0.43
3:C8:304:SER:OG	3:C8:305:GLN:N	2.51	0.43
4:E8:61:PRO:HB2	4:F8:72:ARG:NH2	2.32	0.43
3:C9:68:GLY:HA3	3:C9:160:LEU:HD21	2.00	0.43
2:BA:309:LEU:HD23	2:BA:309:LEU:HA	1.88	0.43
3:CB:248:ASP:O	3:CB:252:ARG:HG2	2.18	0.43
4:DB:80:ARG:NH1	4:FC:52:GLN:HB2	2.34	0.43
4:DB:105:LEU:C	4:DB:131:ARG:HH12	2.20	0.43
4:EB:98:ASP:HA	4:EB:108:GLN:HA	1.99	0.43
2:BC:12:ILE:HD13	2:BC:55:VAL:HG21	2.00	0.43
3:CC:201:ASN:OD1	3:CC:216:ASN:HB3	2.18	0.43
4:EC:64:LEU:CB	4:EC:101:ILE:HG13	2.49	0.43
4:EC:72:ARG:HH22	4:FC:62:VAL:N	2.16	0.43
4:ED:61:PRO:N	4:FD:74:THR:HG22	2.34	0.43
3:CE:69:LEU:HD23	3:CE:77:PRO:HG3	1.99	0.43
2:BH:129:ILE:HA	2:BH:132:THR:HG22	2.01	0.43
2:BI:250:LEU:O	2:BI:254:VAL:HG13	2.18	0.43
4:DJ:105:LEU:C	4:DJ:131:ARG:HH12	2.19	0.43
3:CL:68:GLY:HA3	3:CL:160:LEU:HD21	2.01	0.43
3:CL:79:ILE:HG13	3:CL:206:VAL:HG22	2.01	0.43
3:CL:249:ASN:HB2	4:FM:125:ILE:HD13	2.01	0.43
4:DL:101:ILE:CD1	4:EL:60:ILE:HG12	2.48	0.43
4:EM:97:LEU:HB2	4:EM:109:GLY:O	2.19	0.43
2:BN:309:LEU:HD23	2:BN:309:LEU:HA	1.88	0.43
3:CN:79:ILE:HG13	3:CN:206:VAL:HG22	2.01	0.43
3:CN:256:HIS:NE2	4:FO:104:TYR:CZ	2.87	0.43
4:DN:105:LEU:C	4:DN:131:ARG:HH12	2.20	0.43
2:BO:229:ILE:O	2:BO:233:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CO:64:GLN:HG2	3:CO:164:GLY:HA2	2.00	0.43
2:BQ:229:ILE:O	2:BQ:233:MET:HG2	2.18	0.43
4:DQ:78:LEU:HA	4:DQ:81:LEU:HG	2.01	0.43
3:CR:256:HIS:NE2	4:FS:104:TYR:CZ	2.87	0.43
3:CS:272:LEU:HD23	4:DS:60:ILE:HB	2.01	0.43
4:DS:80:ARG:NH1	4:FT:52:GLN:HB2	2.34	0.43
4:ES:64:LEU:CB	4:ES:101:ILE:HG13	2.49	0.43
1:AT:535:ARG:O	1:AT:538:GLU:HG3	2.18	0.43
3:CT:199:VAL:HG12	3:CT:220:PRO:HA	2.00	0.43
2:BU:300:GLN:O	2:BU:304:GLU:HG2	2.19	0.43
4:FU:97:LEU:HB2	4:FU:109:GLY:O	2.18	0.43
1:AW:517:GLN:HG2	1:AW:518:LEU:HD22	1.99	0.43
2:BW:210:GLN:O	2:BW:214:VAL:HG23	2.19	0.43
2:BX:12:ILE:HG12	2:BX:47:ILE:HG21	2.00	0.43
3:CX:220:PRO:O	3:CX:223:MET:HB2	2.19	0.43
4:EX:97:LEU:HG	4:EX:111:VAL:HG23	2.01	0.43
1:A1:549:LEU:CD1	2:B2:46:GLN:H	2.31	0.43
2:B1:229:ILE:O	2:B1:233:MET:HG2	2.18	0.43
2:B1:233:MET:O	2:B1:313:ARG:NH2	2.52	0.43
3:C1:201:ASN:OD1	3:C1:216:ASN:HB3	2.18	0.43
4:D1:77:GLU:OE1	4:D1:77:GLU:N	2.50	0.43
4:F1:101:ILE:HG12	4:F1:106:ILE:HD11	2.01	0.43
4:D2:133:ARG:HH12	4:D2:137:ARG:HD3	1.83	0.43
4:D3:78:LEU:HA	4:D3:81:LEU:HG	2.00	0.43
1:A4:521:ARG:HA	1:A4:524:ASN:ND2	2.33	0.43
4:E4:124:ASP:OD1	4:E4:125:ILE:N	2.52	0.43
2:B5:157:VAL:O	2:B5:161:ILE:HG12	2.18	0.43
3:C5:54:LEU:HD23	3:C5:84:ILE:HD13	1.99	0.43
3:C5:288:LYS:HA	3:C5:288:LYS:HD3	1.85	0.43
3:C5:304:SER:OG	3:C5:305:GLN:N	2.51	0.43
4:E5:61:PRO:CB	4:F5:72:ARG:HD2	2.49	0.43
4:E5:124:ASP:OD1	4:E5:125:ILE:N	2.52	0.43
3:C6:54:LEU:HD23	3:C6:84:ILE:HD13	2.00	0.43
4:E7:121:ARG:HH22	4:F7:85:SER:N	2.16	0.43
2:B8:300:GLN:O	2:B8:304:GLU:HG2	2.19	0.43
3:C8:101:ASN:HD21	3:C8:103:ASN:HD21	1.65	0.43
3:C8:220:PRO:O	3:C8:223:MET:HB2	2.18	0.43
3:C9:246:TRP:CD1	4:EA:82:THR:HA	2.54	0.43
4:E9:64:LEU:CB	4:E9:101:ILE:HG13	2.49	0.43
4:E9:99:ILE:O	4:E9:105:LEU:HD12	2.19	0.43
2:BA:250:LEU:O	2:BA:254:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:300:GLN:O	2:BA:304:GLU:HG2	2.19	0.43
4:EA:64:LEU:CB	4:EA:101:ILE:HG13	2.49	0.43
4:EA:97:LEU:HG	4:EA:111:VAL:HG23	2.00	0.43
2:BB:233:MET:O	2:BB:313:ARG:NH2	2.52	0.43
3:CB:296:VAL:O	3:CB:299:VAL:HG12	2.18	0.43
4:FB:105:LEU:HG	4:FB:126:ILE:HG13	2.00	0.43
3:CD:68:GLY:HA3	3:CD:160:LEU:HD21	2.00	0.43
4:DD:105:LEU:C	4:DD:131:ARG:HH12	2.21	0.43
3:CE:68:GLY:HA3	3:CE:160:LEU:HD21	2.00	0.43
3:CE:117:VAL:CG1	3:CE:216:ASN:HB2	2.49	0.43
2:BF:250:LEU:O	2:BF:254:VAL:HG13	2.19	0.43
3:CG:101:ASN:HD21	3:CG:103:ASN:HD21	1.65	0.43
3:CG:112:GLY:HA3	3:CG:223:MET:SD	2.58	0.43
3:CH:304:SER:OG	3:CH:305:GLN:N	2.52	0.43
4:DH:135:LEU:HD22	4:EI:132:MET:HB3	2.01	0.43
2:BI:158:MET:CE	2:BJ:218:VAL:HB	2.49	0.43
3:CI:219:LEU:HD12	3:CI:223:MET:HG3	2.00	0.43
2:BJ:309:LEU:HD23	2:BJ:309:LEU:HA	1.88	0.43
3:CJ:117:VAL:CG1	3:CJ:216:ASN:HB2	2.49	0.43
4:FJ:75:ILE:HA	4:FJ:78:LEU:HG	2.00	0.43
2:BK:127:PRO:HA	2:BK:130:ILE:HD12	1.99	0.43
4:EK:69:GLY:HA3	4:EK:89:LEU:CD2	2.45	0.43
4:EK:73:MET:HE2	4:EK:77:GLU:OE2	2.19	0.43
3:CL:117:VAL:CG1	3:CL:216:ASN:HB2	2.49	0.43
3:CL:201:ASN:OD1	3:CL:216:ASN:HB3	2.18	0.43
4:EL:124:ASP:OD1	4:EL:125:ILE:N	2.52	0.43
2:BM:233:MET:O	2:BM:313:ARG:NH2	2.52	0.43
4:EM:124:ASP:OD1	4:EM:125:ILE:N	2.52	0.43
2:BN:65:GLN:O	2:BO:48:SER:OG	2.23	0.43
4:DN:73:MET:SD	4:DN:78:LEU:HB3	2.58	0.43
4:EN:117:LYS:HZ2	4:FN:92:LEU:HA	1.83	0.43
3:CO:64:GLN:O	3:CO:67:MET:HG3	2.18	0.43
3:CO:199:VAL:HG12	3:CO:220:PRO:HA	2.00	0.43
4:FP:101:ILE:HG12	4:FP:106:ILE:HD11	2.01	0.43
3:CQ:304:SER:OG	3:CQ:305:GLN:N	2.52	0.43
4:EQ:67:GLU:CD	4:FQ:65:THR:HG21	2.39	0.43
3:CR:101:ASN:HD21	3:CR:103:ASN:HD21	1.66	0.43
4:ER:76:LYS:NZ	4:FR:58:MET:HB2	2.34	0.43
3:CS:199:VAL:HG12	3:CS:220:PRO:HA	2.01	0.43
2:BT:321:MET:HG3	2:BT:323:ILE:HG23	1.99	0.43
3:CT:294:ALA:HB3	3:CT:302:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DT:135:LEU:HD22	4:EU:132:MET:HB3	2.01	0.43
3:CV:256:HIS:NE2	4:FW:104:TYR:CZ	2.87	0.43
2:BW:12:ILE:HD13	2:BW:55:VAL:HG21	2.01	0.43
4:EW:74:THR:HA	4:FW:61:PRO:HA	2.00	0.43
1:AX:537:ARG:CA	2:BX:21:ARG:HH22	2.23	0.43
2:BX:157:VAL:O	2:BX:161:ILE:HG12	2.19	0.43
2:BX:300:GLN:O	2:BX:304:GLU:HG2	2.19	0.43
1:AY:521:ARG:HA	1:AY:524:ASN:ND2	2.33	0.43
2:BY:250:LEU:O	2:BY:254:VAL:HG13	2.19	0.43
3:CY:54:LEU:HD23	3:CY:84:ILE:HD13	2.00	0.43
3:CY:258:GLU:CD	4:DY:73:MET:H	2.22	0.43
3:C1:54:LEU:HD23	3:C1:84:ILE:HD13	1.99	0.43
4:E1:57:ILE:HD12	4:E1:57:ILE:HA	1.90	0.43
4:E1:121:ARG:HH22	4:F1:85:SER:N	2.16	0.43
4:E1:124:ASP:OD1	4:E1:125:ILE:N	2.52	0.43
2:B2:300:GLN:O	2:B2:304:GLU:HG2	2.19	0.43
4:E2:124:ASP:OD1	4:E2:125:ILE:N	2.52	0.43
3:C3:54:LEU:HD23	3:C3:84:ILE:HD13	1.99	0.43
3:C4:54:LEU:HA	3:C4:57:ILE:HG22	2.00	0.43
3:C4:79:ILE:HG13	3:C4:206:VAL:HG22	2.01	0.43
4:D4:78:LEU:HA	4:D4:81:LEU:HG	1.99	0.43
3:C5:249:ASN:HB3	4:F6:125:ILE:HG21	2.00	0.43
4:E5:121:ARG:HH22	4:F5:85:SER:N	2.16	0.43
2:B6:229:ILE:O	2:B6:233:MET:HG2	2.18	0.43
3:C6:304:SER:OG	3:C6:305:GLN:N	2.51	0.43
4:E6:57:ILE:HD12	4:E6:57:ILE:HA	1.90	0.43
4:E6:76:LYS:NZ	4:F6:58:MET:HB2	2.34	0.43
3:C7:54:LEU:HD23	3:C7:84:ILE:HD13	2.00	0.43
3:C7:288:LYS:HZ3	4:D7:118:TYR:H	1.67	0.43
4:E7:73:MET:HE2	4:E7:77:GLU:OE2	2.19	0.43
2:B8:233:MET:O	2:B8:313:ARG:NH2	2.52	0.43
3:C8:201:ASN:OD1	3:C8:216:ASN:HB3	2.18	0.43
4:E8:61:PRO:HB2	4:F8:72:ARG:HH21	1.84	0.43
4:E9:97:LEU:HB2	4:E9:109:GLY:O	2.18	0.43
1:AA:553:GLN:NE2	1:AA:557:ASN:OD1	2.51	0.43
2:BA:135:VAL:HG11	2:BB:193:MET:SD	2.59	0.43
3:CA:107:LEU:HG	3:CA:177:VAL:HG12	2.00	0.43
3:CB:117:VAL:CG1	3:CB:216:ASN:HB2	2.49	0.43
2:BC:233:MET:O	2:BC:313:ARG:NH2	2.52	0.43
3:CC:248:ASP:O	3:CC:252:ARG:HG2	2.18	0.43
3:CC:304:SER:OG	3:CC:305:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:72:ARG:NH2	4:FC:62:VAL:O	2.52	0.43
4:DE:101:ILE:CD1	4:EE:60:ILE:HG12	2.49	0.43
4:FE:54:ILE:HG13	4:FE:55:ASP:H	1.84	0.43
4:FE:99:ILE:O	4:FE:106:ILE:HB	2.19	0.43
1:AF:517:GLN:HG2	1:AF:518:LEU:HD22	1.99	0.43
2:BF:233:MET:O	2:BF:313:ARG:NH2	2.51	0.43
4:EF:124:ASP:OD1	4:EF:125:ILE:N	2.52	0.43
2:BG:233:MET:O	2:BG:313:ARG:NH2	2.52	0.43
2:BG:300:GLN:O	2:BG:304:GLU:HG2	2.19	0.43
3:CH:244:GLN:HA	3:CH:247:ARG:HG3	2.01	0.43
3:CI:79:ILE:HG13	3:CI:206:VAL:HG22	2.01	0.43
3:CI:117:VAL:CG1	3:CI:216:ASN:HB2	2.49	0.43
3:CJ:64:GLN:HG2	3:CJ:164:GLY:HA2	2.01	0.43
4:EJ:124:ASP:OD1	4:EJ:125:ILE:N	2.52	0.43
2:BK:250:LEU:O	2:BK:254:VAL:HG13	2.19	0.43
2:BM:300:GLN:O	2:BM:304:GLU:HG2	2.19	0.43
3:CM:54:LEU:HA	3:CM:57:ILE:HG22	2.00	0.43
3:CM:117:VAL:CG1	3:CM:216:ASN:HB2	2.49	0.43
3:CM:296:VAL:O	3:CM:299:VAL:HG12	2.18	0.43
4:DM:105:LEU:C	4:DM:131:ARG:HH12	2.21	0.43
2:BN:166:GLY:HA3	2:BO:190:ARG:HH12	1.84	0.43
3:CN:117:VAL:CG1	3:CN:216:ASN:HB2	2.49	0.43
1:AO:521:ARG:HA	1:AO:524:ASN:ND2	2.32	0.43
4:EO:97:LEU:HB2	4:EO:109:GLY:O	2.19	0.43
2:BP:12:ILE:HG12	2:BP:47:ILE:HG21	1.99	0.43
2:BP:124:ASP:N	2:BP:124:ASP:OD1	2.48	0.43
4:EQ:117:LYS:HZ2	4:FQ:92:LEU:HA	1.84	0.43
4:EQ:124:ASP:OD1	4:EQ:125:ILE:N	2.52	0.43
2:BS:235:LEU:HD23	2:BS:235:LEU:HA	1.80	0.43
3:CS:201:ASN:OD1	3:CS:216:ASN:HB3	2.18	0.43
3:CS:296:VAL:O	3:CS:299:VAL:HG12	2.19	0.43
3:CT:222:SER:HA	3:CT:225:GLU:HG2	2.01	0.43
2:BV:229:ILE:O	2:BV:233:MET:HG2	2.18	0.43
2:BV:300:GLN:O	2:BV:304:GLU:HG2	2.19	0.43
4:EV:57:ILE:HD12	4:EV:57:ILE:HA	1.89	0.43
4:EV:121:ARG:HH22	4:FV:85:SER:N	2.16	0.43
2:BW:12:ILE:HG12	2:BW:47:ILE:HG21	2.00	0.43
2:BW:233:MET:O	2:BW:313:ARG:NH2	2.52	0.43
4:DW:105:LEU:C	4:DW:131:ARG:HH12	2.21	0.43
1:AX:517:GLN:HG2	1:AX:518:LEU:HD22	1.99	0.43
3:CX:54:LEU:HA	3:CX:57:ILE:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CX:199:VAL:HG12	3:CX:220:PRO:HA	2.00	0.43
3:CX:249:ASN:CB	4:FY:125:ILE:HG21	2.47	0.43
2:BY:300:GLN:O	2:BY:304:GLU:HG2	2.19	0.43
4:DY:114:VAL:O	4:DY:117:LYS:HG2	2.19	0.43
4:EY:57:ILE:HD12	4:EY:57:ILE:HA	1.89	0.43
3:C1:117:VAL:CG1	3:C1:216:ASN:HB2	2.49	0.43
3:C1:222:SER:HA	3:C1:225:GLU:HG2	2.01	0.43
4:E1:61:PRO:HB2	4:F1:72:ARG:NH2	2.27	0.43
4:E1:64:LEU:CB	4:E1:101:ILE:HG13	2.49	0.43
3:C2:54:LEU:HD23	3:C2:84:ILE:HD13	1.99	0.43
4:E2:97:LEU:HB2	4:E2:109:GLY:O	2.18	0.43
1:A3:535:ARG:O	1:A3:538:GLU:HG3	2.18	0.43
4:E5:67:GLU:CD	4:F5:65:THR:HG21	2.40	0.43
4:E6:98:ASP:HA	4:E6:108:GLN:HA	2.00	0.43
2:B7:203:ILE:HD12	2:B7:214:VAL:HG11	2.00	0.43
3:C7:64:GLN:O	3:C7:67:MET:HG3	2.18	0.43
3:C7:68:GLY:HA3	3:C7:160:LEU:HD21	2.00	0.43
3:C7:296:VAL:O	3:C7:299:VAL:HG12	2.18	0.43
4:F8:75:ILE:HA	4:F8:78:LEU:HG	2.00	0.43
4:E9:124:ASP:OD1	4:E9:125:ILE:N	2.52	0.43
1:AA:517:GLN:HG2	1:AA:518:LEU:HD22	2.00	0.43
2:BA:151:GLU:CD	2:BA:154:ARG:HH12	2.22	0.43
2:BA:229:ILE:O	2:BA:233:MET:HG2	2.19	0.43
3:CA:79:ILE:HG13	3:CA:206:VAL:HG22	2.01	0.43
4:DA:108:GLN:N	4:DA:124:ASP:OD1	2.38	0.43
4:FA:65:THR:HG22	4:FA:66:VAL:N	2.33	0.43
1:AB:528:GLY:O	1:AB:532:MET:HG2	2.19	0.43
3:CB:201:ASN:OD1	3:CB:216:ASN:HB3	2.19	0.43
4:EB:121:ARG:HH22	4:FB:85:SER:N	2.16	0.43
1:AC:535:ARG:O	1:AC:538:GLU:HG3	2.18	0.43
2:BC:234:PHE:O	2:BC:238:ASN:HB2	2.19	0.43
3:CC:64:GLN:HG2	3:CC:164:GLY:HA2	2.01	0.43
3:CC:117:VAL:CG1	3:CC:216:ASN:HB2	2.49	0.43
4:EC:98:ASP:HA	4:EC:108:GLN:HA	2.00	0.43
4:EC:121:ARG:HH22	4:FC:85:SER:N	2.16	0.43
4:FC:57:ILE:HG13	4:FC:60:ILE:HB	2.01	0.43
4:FC:83:GLN:OE1	4:FC:84:GLY:N	2.52	0.43
3:CD:79:ILE:HG13	3:CD:206:VAL:HG22	2.01	0.43
2:BE:300:GLN:O	2:BE:304:GLU:HG2	2.19	0.43
4:EE:64:LEU:CB	4:EE:101:ILE:HG13	2.49	0.43
3:CG:199:VAL:HG12	3:CG:220:PRO:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:133:ARG:HH21	4:DG:134:ARG:HG2	1.83	0.43
4:FG:99:ILE:O	4:FG:106:ILE:HB	2.19	0.43
2:BH:229:ILE:O	2:BH:233:MET:HG2	2.19	0.43
3:CH:54:LEU:HA	3:CH:57:ILE:HG22	2.00	0.43
3:CH:201:ASN:OD1	3:CH:216:ASN:HB3	2.19	0.43
3:CH:253:GLN:OE1	4:FI:125:ILE:HB	2.19	0.43
3:CI:54:LEU:HA	3:CI:57:ILE:HG22	2.00	0.43
4:EI:124:ASP:OD1	4:EI:125:ILE:N	2.52	0.43
2:BJ:215:ILE:HA	2:BJ:218:VAL:HG12	2.01	0.43
3:CK:64:GLN:O	3:CK:67:MET:HG3	2.18	0.43
2:BL:151:GLU:CD	2:BL:154:ARG:HH12	2.22	0.43
3:CL:294:ALA:HB3	3:CL:302:LEU:HG	2.01	0.43
1:AM:536:ILE:O	1:AM:539:MET:HG3	2.18	0.43
2:BM:77:LEU:HB2	2:BN:41:MET:SD	2.59	0.43
2:BM:235:LEU:HA	2:BM:235:LEU:HD23	1.82	0.43
3:CN:101:ASN:HD21	3:CN:103:ASN:HD21	1.65	0.43
2:BO:5:SER:O	2:BO:9:LYS:HG3	2.19	0.43
3:CO:54:LEU:HA	3:CO:57:ILE:HG22	2.00	0.43
3:CO:112:GLY:HA3	3:CO:223:MET:SD	2.59	0.43
2:BP:129:ILE:HA	2:BP:132:THR:HG22	2.00	0.43
2:BP:210:GLN:O	2:BP:214:VAL:HG23	2.19	0.43
2:BP:233:MET:O	2:BP:313:ARG:NH2	2.52	0.43
3:CP:249:ASN:ND2	4:FQ:125:ILE:HD13	2.33	0.43
4:EP:124:ASP:OD1	4:EP:125:ILE:N	2.52	0.43
4:DQ:135:LEU:HD22	4:ER:132:MET:HB3	2.01	0.43
4:EQ:64:LEU:CB	4:EQ:101:ILE:HG13	2.49	0.43
4:EQ:121:ARG:HH22	4:FQ:85:SER:N	2.16	0.43
2:BR:210:GLN:O	2:BR:214:VAL:HG23	2.19	0.43
3:CR:296:VAL:O	3:CR:299:VAL:HG12	2.18	0.43
4:ER:62:VAL:O	4:FR:72:ARG:NH1	2.52	0.43
4:FR:63:LYS:O	4:FR:102:ASN:N	2.42	0.43
2:BS:202:ILE:O	2:BS:206:MET:HG2	2.18	0.43
3:CS:222:SER:HA	3:CS:225:GLU:HG2	2.01	0.43
3:CS:304:SER:OG	3:CS:305:GLN:N	2.52	0.43
4:FS:66:VAL:HG12	4:FS:99:ILE:HG13	2.01	0.43
4:FS:117:LYS:HD3	4:FS:117:LYS:HA	1.87	0.43
2:BT:234:PHE:O	2:BT:238:ASN:HB2	2.19	0.43
3:CU:54:LEU:HD23	3:CU:84:ILE:HD13	2.00	0.43
4:EU:97:LEU:HB2	4:EU:109:GLY:O	2.19	0.43
1:AV:535:ARG:HD2	1:AV:536:ILE:N	2.33	0.43
4:DV:101:ILE:CD1	4:EV:60:ILE:HG12	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CW:54:LEU:HA	3:CW:57:ILE:HG22	2.00	0.43
2:BY:235:LEU:HB3	2:BY:236:PHE:H	1.68	0.43
2:B1:298:LEU:HD22	2:BY:329:THR:HB	2.01	0.42
3:C1:79:ILE:HG13	3:C1:206:VAL:HG22	2.01	0.42
4:F1:52:GLN:HB2	4:DY:80:ARG:NH1	2.34	0.42
2:B2:12:ILE:HD13	2:B2:55:VAL:HG21	2.00	0.42
2:B2:233:MET:O	2:B2:313:ARG:NH2	2.52	0.42
4:D2:77:GLU:OE1	4:D2:77:GLU:N	2.50	0.42
3:C3:304:SER:OG	3:C3:305:GLN:N	2.51	0.42
3:C4:201:ASN:OD1	3:C4:216:ASN:HB3	2.18	0.42
4:E4:64:LEU:CB	4:E4:101:ILE:HG13	2.49	0.42
4:E4:99:ILE:O	4:E4:105:LEU:HD12	2.19	0.42
4:E4:121:ARG:HH22	4:F4:85:SER:N	2.16	0.42
4:F4:54:ILE:HG13	4:F4:55:ASP:H	1.83	0.42
3:C5:79:ILE:HG13	3:C5:206:VAL:HG22	2.01	0.42
4:E5:57:ILE:HD12	4:E5:57:ILE:HA	1.90	0.42
1:A6:549:LEU:CD1	2:B7:46:GLN:H	2.31	0.42
2:B6:189:LYS:HA	2:B6:189:LYS:HD3	1.91	0.42
3:C7:181:ARG:NE	3:C7:183:GLU:OE2	2.40	0.42
3:C8:68:GLY:HA3	3:C8:160:LEU:HD21	2.01	0.42
3:C8:107:LEU:HG	3:C8:177:VAL:HG12	2.00	0.42
4:E8:121:ARG:HH22	4:F8:85:SER:N	2.16	0.42
4:F8:107:ALA:HB1	4:F8:124:ASP:O	2.19	0.42
2:B9:136:HIS:NE2	2:BA:193:MET:HG3	2.34	0.42
2:BA:234:PHE:O	2:BA:238:ASN:HB2	2.19	0.42
4:EA:97:LEU:HB2	4:EA:109:GLY:O	2.18	0.42
4:EA:124:ASP:OD1	4:EA:125:ILE:N	2.52	0.42
2:BC:229:ILE:O	2:BC:233:MET:HG2	2.18	0.42
4:EC:57:ILE:HD12	4:EC:57:ILE:HA	1.90	0.42
3:CE:201:ASN:OD1	3:CE:216:ASN:HB3	2.18	0.42
4:DE:135:LEU:HD22	4:EF:132:MET:HB3	2.01	0.42
4:FE:117:LYS:HD3	4:FE:117:LYS:HA	1.87	0.42
2:BF:132:THR:O	2:BG:193:MET:HE1	2.18	0.42
2:BF:229:ILE:O	2:BF:233:MET:HG2	2.18	0.42
3:CF:68:GLY:HA3	3:CF:160:LEU:HD21	2.01	0.42
1:AG:537:ARG:CA	2:BG:21:ARG:HH22	2.24	0.42
2:BG:158:MET:SD	2:BG:159:LEU:N	2.92	0.42
3:CH:79:ILE:HG13	3:CH:206:VAL:HG22	2.01	0.42
4:FH:99:ILE:O	4:FH:106:ILE:HB	2.18	0.42
3:CI:68:GLY:HA3	3:CI:160:LEU:HD21	2.00	0.42
3:CI:181:ARG:NE	3:CI:183:GLU:OE2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:201:ASN:OD1	3:CI:216:ASN:HB3	2.19	0.42
4:DI:75:ILE:HD12	4:DI:75:ILE:H	1.84	0.42
1:AJ:537:ARG:CA	2:BJ:21:ARG:HH22	2.24	0.42
2:BM:60:GLU:HG2	1:AN:522:ARG:HH12	1.83	0.42
3:CM:79:ILE:HG13	3:CM:206:VAL:HG22	2.01	0.42
2:BN:229:ILE:O	2:BN:233:MET:HG2	2.19	0.42
4:DN:78:LEU:HA	4:DN:81:LEU:HG	2.01	0.42
1:AO:558:ASP:OD1	2:BO:5:SER:OG	2.32	0.42
2:BO:300:GLN:O	2:BO:304:GLU:HG2	2.19	0.42
3:CO:68:GLY:HA3	3:CO:160:LEU:HD21	2.01	0.42
3:CO:242:GLU:HB2	4:EP:83:GLN:HE22	1.83	0.42
1:AP:537:ARG:CA	2:BP:21:ARG:HH22	2.24	0.42
2:BP:250:LEU:O	2:BP:254:VAL:HG13	2.19	0.42
3:CP:79:ILE:HG13	3:CP:206:VAL:HG22	2.01	0.42
3:CP:117:VAL:CG1	3:CP:216:ASN:HB2	2.49	0.42
4:EP:69:GLY:HA3	4:EP:89:LEU:CD2	2.45	0.42
3:CQ:288:LYS:HA	3:CQ:288:LYS:HD3	1.85	0.42
2:BR:93:LEU:HD13	2:BR:93:LEU:HA	1.92	0.42
2:BR:227:GLN:HA	2:BR:230:ILE:HG12	2.01	0.42
3:CR:79:ILE:HG13	3:CR:206:VAL:HG22	2.01	0.42
4:ER:124:ASP:OD1	4:ER:125:ILE:N	2.52	0.42
4:FS:101:ILE:HG12	4:FS:106:ILE:HD11	2.01	0.42
3:CT:107:LEU:HG	3:CT:177:VAL:HG12	2.00	0.42
2:BU:12:ILE:HG12	2:BU:47:ILE:HG21	1.99	0.42
3:CV:117:VAL:CG1	3:CV:216:ASN:HB2	2.49	0.42
3:CV:294:ALA:O	3:CV:301:VAL:HG22	2.18	0.42
4:EV:97:LEU:HB2	4:EV:109:GLY:O	2.19	0.42
4:EV:124:ASP:OD1	4:EV:125:ILE:N	2.52	0.42
1:AW:549:LEU:CD1	2:BX:46:GLN:H	2.32	0.42
2:BW:151:GLU:CD	2:BW:154:ARG:HH12	2.23	0.42
4:FW:75:ILE:HA	4:FW:78:LEU:HG	2.00	0.42
3:CX:117:VAL:CG1	3:CX:216:ASN:HB2	2.49	0.42
4:EX:121:ARG:HH22	4:FX:85:SER:N	2.16	0.42
3:CY:79:ILE:HG13	3:CY:206:VAL:HG22	2.01	0.42
4:FY:105:LEU:HD23	4:FY:131:ARG:HG3	2.01	0.42
3:C1:304:SER:OG	3:C1:305:GLN:N	2.51	0.42
4:E1:97:LEU:HB2	4:E1:109:GLY:O	2.19	0.42
3:C2:117:VAL:CG1	3:C2:216:ASN:HB2	2.49	0.42
3:C3:54:LEU:HA	3:C3:57:ILE:HG22	2.00	0.42
3:C3:79:ILE:HG13	3:C3:206:VAL:HG22	2.01	0.42
4:E3:99:ILE:O	4:E3:105:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E3:121:ARG:HH22	4:F3:85:SER:N	2.16	0.42
4:F3:108:GLN:HB2	4:F3:124:ASP:OD1	2.20	0.42
4:D4:71:THR:HG23	4:D4:73:MET:HB2	2.00	0.42
2:B5:250:LEU:O	2:B5:254:VAL:HG13	2.19	0.42
2:B6:131:ALA:HB1	2:B6:161:ILE:CD1	2.48	0.42
2:B6:300:GLN:O	2:B6:304:GLU:HG2	2.19	0.42
3:C6:79:ILE:HG13	3:C6:206:VAL:HG22	2.01	0.42
4:E6:97:LEU:HG	4:E6:111:VAL:HG23	2.01	0.42
2:B7:238:ASN:O	2:B7:242:VAL:HG23	2.17	0.42
3:C7:220:PRO:O	3:C7:223:MET:HB2	2.19	0.42
4:D7:75:ILE:H	4:D7:75:ILE:HD12	1.84	0.42
2:B8:97:ILE:O	2:B8:101:ARG:NE	2.52	0.42
3:C8:296:VAL:O	3:C8:299:VAL:HG12	2.19	0.42
4:E8:128:PRO:HA	4:E8:131:ARG:HG3	2.00	0.42
3:C9:79:ILE:HG13	3:C9:206:VAL:HG22	2.01	0.42
4:F9:53:ASP:OD2	4:F9:56:LEU:HB3	2.20	0.42
2:BA:227:GLN:HA	2:BA:230:ILE:HG12	2.02	0.42
2:BB:215:ILE:HA	2:BB:218:VAL:HG12	2.01	0.42
4:EB:64:LEU:CB	4:EB:101:ILE:HG13	2.49	0.42
4:EB:124:ASP:OD1	4:EB:125:ILE:N	2.52	0.42
3:CC:199:VAL:HG12	3:CC:220:PRO:HA	2.01	0.42
2:BD:235:LEU:HA	2:BD:235:LEU:HD23	1.81	0.42
4:FD:117:LYS:HA	4:FD:117:LYS:HD3	1.86	0.42
3:CE:79:ILE:HG13	3:CE:206:VAL:HG22	2.01	0.42
3:CE:256:HIS:NE2	4:FF:104:TYR:CZ	2.87	0.42
4:EE:124:ASP:OD1	4:EE:125:ILE:N	2.52	0.42
3:CF:199:VAL:HG12	3:CF:220:PRO:HA	2.00	0.42
4:DF:80:ARG:NH1	4:FG:52:GLN:HB2	2.34	0.42
4:EF:97:LEU:HB2	4:EF:109:GLY:O	2.18	0.42
4:EF:121:ARG:HH22	4:FF:85:SER:N	2.16	0.42
4:FF:65:THR:HG22	4:FF:66:VAL:N	2.35	0.42
4:FF:83:GLN:OE1	4:FF:84:GLY:N	2.52	0.42
2:BG:235:LEU:HA	2:BG:235:LEU:HD23	1.82	0.42
3:CG:220:PRO:O	3:CG:223:MET:HB2	2.19	0.42
3:CG:240:ARG:NH2	3:CG:243:ASP:OD2	2.52	0.42
3:CH:113:THR:O	3:CH:191:ILE:HD11	2.20	0.42
3:CH:117:VAL:CG1	3:CH:216:ASN:HB2	2.49	0.42
3:CH:222:SER:HA	3:CH:225:GLU:HG2	2.00	0.42
4:EH:69:GLY:HA3	4:EH:89:LEU:CD2	2.45	0.42
4:EH:75:ILE:O	4:EH:79:LEU:HD23	2.18	0.42
3:CJ:54:LEU:HA	3:CJ:57:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:201:ASN:OD1	3:CJ:216:ASN:HB3	2.19	0.42
3:CJ:288:LYS:HA	3:CJ:288:LYS:HD3	1.85	0.42
2:BK:12:ILE:HD13	2:BK:55:VAL:HG21	2.00	0.42
2:BK:111:ASN:OD1	2:BK:137:LEU:HB3	2.19	0.42
3:CK:107:LEU:HG	3:CK:177:VAL:HG12	2.00	0.42
3:CK:117:VAL:CG1	3:CK:216:ASN:HB2	2.49	0.42
3:CK:304:SER:OG	3:CK:305:GLN:N	2.51	0.42
4:FK:101:ILE:HG12	4:FK:106:ILE:HD11	2.00	0.42
3:CL:165:TYR:CD2	3:CL:177:VAL:HG11	2.54	0.42
4:EL:97:LEU:HB2	4:EL:109:GLY:O	2.18	0.42
4:FL:65:THR:HG22	4:FL:66:VAL:N	2.34	0.42
3:CN:54:LEU:HA	3:CN:57:ILE:HG22	2.00	0.42
1:AO:549:LEU:CD1	2:BP:46:GLN:H	2.32	0.42
2:BO:129:ILE:HA	2:BO:132:THR:HG22	2.00	0.42
4:EO:105:LEU:O	4:EO:131:ARG:NH2	2.39	0.42
1:AP:536:ILE:O	1:AP:539:MET:HG3	2.18	0.42
4:EP:77:GLU:O	4:EP:81:LEU:HG	2.19	0.42
2:BQ:129:ILE:HD12	2:BQ:132:THR:CG2	2.49	0.42
2:BQ:135:VAL:HG11	2:BQ:161:ILE:HD12	2.01	0.42
2:BQ:235:LEU:HB3	2:BQ:236:PHE:H	1.68	0.42
2:BQ:300:GLN:O	2:BQ:304:GLU:HG2	2.18	0.42
3:CQ:296:VAL:HG13	3:CQ:301:VAL:HG11	2.01	0.42
2:BR:78:ARG:NH1	2:BR:91:SER:OG	2.45	0.42
2:BR:114:GLU:HG2	2:BR:115:PRO:HD2	2.01	0.42
4:DR:75:ILE:O	4:DR:78:LEU:HG	2.19	0.42
1:AS:536:ILE:O	1:AS:539:MET:HG3	2.18	0.42
4:ES:124:ASP:OD1	4:ES:125:ILE:N	2.52	0.42
3:CT:54:LEU:HA	3:CT:57:ILE:HG22	2.00	0.42
4:ET:99:ILE:O	4:ET:105:LEU:HD12	2.19	0.42
4:EU:124:ASP:OD1	4:EU:125:ILE:N	2.52	0.42
2:BV:250:LEU:O	2:BV:254:VAL:HG13	2.19	0.42
3:CV:249:ASN:ND2	4:FW:125:ILE:HG21	2.32	0.42
2:BW:131:ALA:HB1	2:BW:161:ILE:CD1	2.49	0.42
3:CW:117:VAL:CG1	3:CW:216:ASN:HB2	2.49	0.42
3:CX:253:GLN:HG2	4:FY:106:ILE:HD13	2.01	0.42
4:EY:69:GLY:HA3	4:EY:89:LEU:CD2	2.46	0.42
4:EY:76:LYS:NZ	4:FY:58:MET:HB2	2.34	0.42
3:C1:54:LEU:HA	3:C1:57:ILE:HG22	2.00	0.42
3:C2:288:LYS:HA	3:C2:288:LYS:HD3	1.85	0.42
1:A3:537:ARG:CA	2:B3:21:ARG:HH22	2.24	0.42
4:F3:64:LEU:HA	4:F3:101:ILE:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:300:GLN:O	2:B4:304:GLU:HG2	2.19	0.42
3:C4:117:VAL:CG1	3:C4:216:ASN:HB2	2.49	0.42
3:C4:257:SER:HB3	4:F5:104:TYR:CD2	2.54	0.42
1:A5:521:ARG:HA	1:A5:524:ASN:ND2	2.33	0.42
2:B5:300:GLN:O	2:B5:304:GLU:HG2	2.19	0.42
3:C5:181:ARG:NE	3:C5:183:GLU:OE2	2.40	0.42
2:B7:5:SER:O	2:B7:9:LYS:HG3	2.19	0.42
3:C7:219:LEU:HD12	3:C7:223:MET:HG3	2.01	0.42
3:C7:279:LYS:HD2	3:C7:279:LYS:HA	1.86	0.42
2:B8:250:LEU:O	2:B8:254:VAL:HG13	2.19	0.42
2:B9:5:SER:O	2:B9:9:LYS:HG3	2.19	0.42
3:C9:288:LYS:HZ3	4:D9:118:TYR:H	1.67	0.42
2:BA:235:LEU:HD23	2:BA:235:LEU:HA	1.84	0.42
2:BB:250:LEU:O	2:BB:254:VAL:HG13	2.19	0.42
2:BD:228:LYS:HD2	2:BD:228:LYS:HA	1.83	0.42
3:CD:113:THR:O	3:CD:191:ILE:HD11	2.20	0.42
4:DD:114:VAL:O	4:DD:117:LYS:HG2	2.20	0.42
4:ED:124:ASP:OD1	4:ED:125:ILE:N	2.52	0.42
3:CE:107:LEU:HG	3:CE:177:VAL:HG12	2.00	0.42
4:EE:105:LEU:O	4:EE:131:ARG:NH2	2.44	0.42
2:BH:41:MET:HA	2:BH:44:VAL:HB	2.01	0.42
4:EH:124:ASP:OD1	4:EH:125:ILE:N	2.52	0.42
2:BI:129:ILE:HD12	2:BI:132:THR:CG2	2.50	0.42
2:BJ:129:ILE:HD12	2:BJ:132:THR:CG2	2.49	0.42
2:BJ:227:GLN:HA	2:BJ:230:ILE:HG12	2.01	0.42
4:DJ:101:ILE:CD1	4:EJ:60:ILE:HG12	2.49	0.42
2:BK:189:LYS:HA	2:BK:189:LYS:HD3	1.88	0.42
2:BK:300:GLN:O	2:BK:304:GLU:HG2	2.19	0.42
3:CK:54:LEU:HA	3:CK:57:ILE:HG22	2.00	0.42
3:CK:64:GLN:HG2	3:CK:164:GLY:HA2	2.01	0.42
4:DK:75:ILE:H	4:DK:75:ILE:HD12	1.85	0.42
4:EK:97:LEU:HB2	4:EK:109:GLY:O	2.19	0.42
2:BL:210:GLN:O	2:BL:214:VAL:HG23	2.18	0.42
4:EL:64:LEU:CB	4:EL:101:ILE:HG13	2.50	0.42
2:BM:131:ALA:HB1	2:BM:161:ILE:HD11	2.02	0.42
3:CM:107:LEU:HG	3:CM:177:VAL:HG12	2.00	0.42
3:CM:156:ARG:HA	3:CM:159:LYS:HZ3	1.84	0.42
3:CN:165:TYR:CD2	3:CN:177:VAL:HG11	2.55	0.42
3:CO:107:LEU:HG	3:CO:177:VAL:HG12	2.01	0.42
4:DO:75:ILE:O	4:DO:78:LEU:HG	2.19	0.42
3:CP:107:LEU:HG	3:CP:177:VAL:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CP:201:ASN:OD1	3:CP:216:ASN:HB3	2.19	0.42
2:BR:300:GLN:O	2:BR:304:GLU:HG2	2.19	0.42
4:ER:60:ILE:C	4:FR:74:THR:HG22	2.40	0.42
3:CS:79:ILE:HG13	3:CS:206:VAL:HG22	2.01	0.42
4:DS:104:TYR:CD2	4:ES:60:ILE:HD13	2.52	0.42
1:AU:521:ARG:HA	1:AU:524:ASN:ND2	2.32	0.42
4:EU:121:ARG:HH22	4:FU:85:SER:N	2.16	0.42
3:CV:54:LEU:HA	3:CV:57:ILE:HG22	2.00	0.42
4:EV:64:LEU:CB	4:EV:101:ILE:HG13	2.49	0.42
3:CW:54:LEU:HD23	3:CW:84:ILE:HD13	2.00	0.42
4:EW:124:ASP:OD1	4:EW:125:ILE:N	2.52	0.42
2:BX:127:PRO:HA	2:BX:130:ILE:HD12	2.01	0.42
2:BX:233:MET:O	2:BX:313:ARG:NH2	2.52	0.42
3:CX:222:SER:HA	3:CX:225:GLU:HG2	2.01	0.42
3:CX:247:ARG:HD2	3:CX:248:ASP:N	2.34	0.42
2:BY:93:LEU:HD13	2:BY:93:LEU:HA	1.95	0.42
3:CY:304:SER:OG	3:CY:305:GLN:N	2.51	0.42
3:C1:68:GLY:HA3	3:C1:160:LEU:HD21	2.00	0.42
3:C1:107:LEU:HG	3:C1:177:VAL:HG12	2.01	0.42
2:B2:78:ARG:NH1	2:B2:91:SER:OG	2.45	0.42
3:C2:54:LEU:HA	3:C2:57:ILE:HG22	2.00	0.42
4:E2:64:LEU:CB	4:E2:101:ILE:HG13	2.50	0.42
4:E2:99:ILE:O	4:E2:105:LEU:HD12	2.20	0.42
2:B3:229:ILE:O	2:B3:233:MET:HG2	2.18	0.42
3:C4:304:SER:OG	3:C4:305:GLN:N	2.52	0.42
3:C5:101:ASN:HD21	3:C5:103:ASN:HD21	1.67	0.42
2:B6:151:GLU:CD	2:B6:154:ARG:HH12	2.23	0.42
2:B6:329:THR:HB	2:B7:298:LEU:HD22	2.02	0.42
3:C6:117:VAL:CG1	3:C6:216:ASN:HB2	2.49	0.42
3:C6:254:VAL:HG13	4:F7:101:ILE:HD11	2.02	0.42
4:E6:64:LEU:CB	4:E6:101:ILE:HG13	2.50	0.42
4:E7:61:PRO:N	4:F7:74:THR:HG22	2.34	0.42
4:E7:76:LYS:NZ	4:F7:58:MET:HB2	2.34	0.42
3:C8:113:THR:O	3:C8:191:ILE:HD11	2.19	0.42
4:E8:97:LEU:HB2	4:E8:109:GLY:O	2.19	0.42
3:C9:107:LEU:HG	3:C9:177:VAL:HG12	2.00	0.42
4:E9:57:ILE:HD12	4:E9:57:ILE:HA	1.90	0.42
4:EA:99:ILE:O	4:EA:105:LEU:HD12	2.19	0.42
1:AB:537:ARG:CA	2:BB:21:ARG:HH22	2.24	0.42
3:CB:68:GLY:HA3	3:CB:160:LEU:HD21	2.01	0.42
4:FB:105:LEU:HD11	4:FB:126:ILE:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:53:ASP:OD2	4:FC:56:LEU:HB3	2.20	0.42
4:FC:124:ASP:N	4:FC:124:ASP:OD1	2.53	0.42
2:BE:5:SER:O	2:BE:9:LYS:HG3	2.19	0.42
3:CF:201:ASN:OD1	3:CF:216:ASN:HB3	2.18	0.42
1:AG:517:GLN:HG2	1:AG:518:LEU:HD22	1.99	0.42
2:BG:12:ILE:HD13	2:BG:55:VAL:HG21	2.01	0.42
3:CG:68:GLY:HA3	3:CG:160:LEU:HD21	2.01	0.42
3:CG:117:VAL:CG1	3:CG:216:ASN:HB2	2.49	0.42
4:FG:75:ILE:HA	4:FG:78:LEU:HG	2.01	0.42
3:CH:101:ASN:HD21	3:CH:103:ASN:HD21	1.66	0.42
4:DH:114:VAL:O	4:DH:117:LYS:HG2	2.19	0.42
2:BI:233:MET:O	2:BI:313:ARG:NH2	2.52	0.42
3:CI:222:SER:HA	3:CI:225:GLU:HG2	2.00	0.42
3:CI:257:SER:HB3	4:FJ:104:TYR:CD2	2.53	0.42
2:BJ:300:GLN:O	2:BJ:304:GLU:HG2	2.19	0.42
2:BK:151:GLU:CD	2:BK:154:ARG:HH12	2.23	0.42
3:CL:244:GLN:HA	3:CL:247:ARG:HG3	2.02	0.42
3:CL:304:SER:OG	3:CL:305:GLN:N	2.52	0.42
4:EM:67:GLU:CD	4:FM:65:THR:HG21	2.40	0.42
2:BN:129:ILE:HA	2:BN:132:THR:HG22	2.01	0.42
4:EN:69:GLY:HA3	4:EN:89:LEU:CD2	2.44	0.42
4:FO:105:LEU:HD21	4:FO:126:ILE:HG21	2.00	0.42
2:BQ:60:GLU:HG2	1:AR:522:ARG:HH12	1.84	0.42
2:BQ:124:ASP:OD1	2:BQ:124:ASP:N	2.48	0.42
2:BQ:151:GLU:CD	2:BQ:154:ARG:HH12	2.23	0.42
3:CQ:79:ILE:HG13	3:CQ:206:VAL:HG22	2.01	0.42
3:CQ:117:VAL:CG1	3:CQ:216:ASN:HB2	2.49	0.42
3:CQ:256:HIS:NE2	4:FR:104:TYR:CZ	2.87	0.42
4:EQ:99:ILE:O	4:EQ:105:LEU:HD12	2.18	0.42
4:ER:97:LEU:HG	4:ER:111:VAL:HG23	2.01	0.42
4:FR:75:ILE:HA	4:FR:78:LEU:HG	2.00	0.42
2:BS:5:SER:O	2:BS:9:LYS:HG3	2.19	0.42
3:CT:249:ASN:CG	4:FU:125:ILE:HD13	2.40	0.42
4:ET:99:ILE:HB	4:ET:107:ALA:HB3	2.01	0.42
2:BU:233:MET:O	2:BU:313:ARG:NH2	2.52	0.42
3:CU:79:ILE:HG13	3:CU:206:VAL:HG22	2.01	0.42
3:CU:257:SER:HB3	4:FV:104:TYR:CD1	2.55	0.42
2:BW:60:GLU:HG2	1:AX:522:ARG:HH12	1.84	0.42
3:CX:304:SER:OG	3:CX:305:GLN:N	2.51	0.42
3:CY:201:ASN:OD1	3:CY:216:ASN:HB3	2.18	0.42
4:FY:101:ILE:O	4:FY:101:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E1:99:ILE:O	4:E1:105:LEU:HD12	2.20	0.42
3:C2:222:SER:HA	3:C2:225:GLU:HG2	2.01	0.42
3:C2:296:VAL:HG13	3:C2:301:VAL:HG11	2.01	0.42
2:B3:263:LEU:HD23	2:B3:263:LEU:HA	1.91	0.42
2:B3:300:GLN:O	2:B3:304:GLU:HG2	2.19	0.42
3:C3:117:VAL:CG1	3:C3:216:ASN:HB2	2.49	0.42
4:E3:97:LEU:HG	4:E3:111:VAL:HG23	2.02	0.42
3:C4:247:ARG:HD2	3:C4:248:ASP:N	2.34	0.42
2:B6:5:SER:O	2:B6:9:LYS:HG3	2.19	0.42
4:D6:101:ILE:HG13	4:E6:60:ILE:HD11	2.02	0.42
3:C7:79:ILE:HG13	3:C7:206:VAL:HG22	2.02	0.42
3:C7:117:VAL:CG1	3:C7:216:ASN:HB2	2.49	0.42
2:B8:70:ASN:HA	2:B9:15:MET:HE1	2.01	0.42
2:B8:228:LYS:HA	2:B8:228:LYS:HD2	1.83	0.42
3:C8:79:ILE:HG13	3:C8:206:VAL:HG22	2.02	0.42
3:C9:201:ASN:OD1	3:C9:216:ASN:HB3	2.18	0.42
4:E9:97:LEU:HG	4:E9:111:VAL:HG23	2.01	0.42
2:BA:158:MET:HG2	2:BB:214:VAL:HG13	2.01	0.42
3:CA:201:ASN:OD1	3:CA:216:ASN:HB3	2.18	0.42
4:DA:105:LEU:C	4:DA:131:ARG:HH12	2.22	0.42
2:BC:189:LYS:HA	2:BC:189:LYS:HD3	1.87	0.42
4:ED:98:ASP:HA	4:ED:108:GLN:HA	2.01	0.42
1:AE:528:GLY:O	1:AE:532:MET:HG2	2.19	0.42
1:AE:551:ILE:O	1:AE:555:MET:HG2	2.20	0.42
2:BF:235:LEU:HB3	2:BF:236:PHE:H	1.67	0.42
3:CF:294:ALA:O	3:CF:301:VAL:HG22	2.18	0.42
2:BG:136:HIS:NE2	2:BH:193:MET:HG3	2.34	0.42
2:BG:234:PHE:O	2:BG:238:ASN:HB2	2.20	0.42
4:FH:75:ILE:HA	4:FH:78:LEU:HG	2.01	0.42
3:CI:294:ALA:HB3	3:CI:302:LEU:HG	2.01	0.42
3:CJ:304:SER:OG	3:CJ:305:GLN:N	2.52	0.42
2:BK:107:ILE:HG12	2:BK:136:HIS:CE1	2.55	0.42
2:BK:229:ILE:O	2:BK:233:MET:HG2	2.19	0.42
3:CK:248:ASP:O	3:CK:252:ARG:HG2	2.18	0.42
2:BL:129:ILE:HA	2:BL:132:THR:HG22	2.01	0.42
2:BL:300:GLN:O	2:BL:304:GLU:HG2	2.19	0.42
4:FL:53:ASP:OD2	4:FL:56:LEU:HB3	2.19	0.42
2:BM:151:GLU:CD	2:BM:154:ARG:HH12	2.23	0.42
2:BO:235:LEU:HB3	2:BO:236:PHE:H	1.67	0.42
3:CO:279:LYS:HA	3:CO:279:LYS:HD2	1.86	0.42
4:EO:99:ILE:O	4:EO:105:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BP:126:HIS:O	2:BP:130:ILE:HG13	2.19	0.42
3:CP:246:TRP:HE1	4:EQ:83:GLN:NE2	2.17	0.42
4:EP:97:LEU:HG	4:EP:111:VAL:HG23	2.01	0.42
3:CQ:54:LEU:HA	3:CQ:57:ILE:HG22	2.00	0.42
4:FQ:75:ILE:HA	4:FQ:78:LEU:HG	2.00	0.42
2:BS:250:LEU:O	2:BS:254:VAL:HG13	2.19	0.42
3:CS:101:ASN:HD21	3:CS:103:ASN:HD21	1.66	0.42
4:ES:69:GLY:HA3	4:ES:89:LEU:CD2	2.45	0.42
4:ET:97:LEU:HG	4:ET:111:VAL:HG23	2.01	0.42
4:FT:57:ILE:HG13	4:FT:60:ILE:HB	2.01	0.42
3:CU:117:VAL:CG1	3:CU:216:ASN:HB2	2.49	0.42
3:CU:304:SER:OG	3:CU:305:GLN:N	2.51	0.42
4:EU:99:ILE:O	4:EU:105:LEU:HD12	2.20	0.42
2:BV:151:GLU:CD	2:BV:154:ARG:HH12	2.23	0.42
3:CV:304:SER:OG	3:CV:305:GLN:N	2.51	0.42
4:EV:97:LEU:HG	4:EV:111:VAL:HG23	2.02	0.42
3:CW:79:ILE:HG13	3:CW:206:VAL:HG22	2.01	0.42
3:CW:222:SER:HA	3:CW:225:GLU:HG2	2.02	0.42
3:CW:296:VAL:O	3:CW:299:VAL:HG12	2.19	0.42
3:CX:219:LEU:HD12	3:CX:223:MET:HG3	2.02	0.42
4:DY:108:GLN:N	4:DY:124:ASP:OD1	2.38	0.42
4:EY:97:LEU:HG	4:EY:111:VAL:HG23	2.02	0.42
1:A2:537:ARG:CA	2:B2:21:ARG:HH22	2.23	0.42
2:B2:5:SER:O	2:B2:9:LYS:HG3	2.18	0.42
2:B2:66:PHE:C	2:B3:46:GLN:HE22	2.23	0.42
3:C2:79:ILE:HG13	3:C2:206:VAL:HG22	2.01	0.42
4:F2:54:ILE:HG13	4:F2:55:ASP:H	1.84	0.42
2:B4:227:GLN:HA	2:B4:230:ILE:HG12	2.02	0.42
3:C5:201:ASN:OD1	3:C5:216:ASN:HB3	2.18	0.42
4:D5:126:ILE:HG13	4:D5:127:THR:N	2.34	0.42
2:B8:114:GLU:HG2	2:B8:115:PRO:HD2	2.02	0.42
3:C8:117:VAL:CG1	3:C8:216:ASN:HB2	2.49	0.42
4:E8:98:ASP:HA	4:E8:108:GLN:HA	2.00	0.42
4:F9:104:TYR:OH	4:F9:131:ARG:NH1	2.52	0.42
4:EB:97:LEU:HG	4:EB:111:VAL:HG23	2.01	0.42
3:CC:68:GLY:HA3	3:CC:160:LEU:HD21	2.00	0.42
4:DC:105:LEU:C	4:DC:131:ARG:HH12	2.20	0.42
2:BD:5:SER:O	2:BD:9:LYS:HG3	2.19	0.42
3:CD:117:VAL:CG1	3:CD:216:ASN:HB2	2.49	0.42
4:FD:54:ILE:HG13	4:FD:55:ASP:H	1.83	0.42
2:BE:151:GLU:CD	2:BE:154:ARG:HH12	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:80:ARG:NH1	4:FF:52:GLN:HB2	2.34	0.42
4:DE:126:ILE:HG13	4:DE:127:THR:N	2.35	0.42
4:FE:64:LEU:HA	4:FE:101:ILE:HA	2.01	0.42
2:BG:78:ARG:NH1	2:BG:91:SER:OG	2.46	0.42
2:BG:329:THR:HB	2:BH:298:LEU:HD22	2.01	0.42
3:CG:201:ASN:OD1	3:CG:216:ASN:HB3	2.18	0.42
3:CH:249:ASN:ND2	4:FI:125:ILE:HD13	2.34	0.42
1:AK:549:LEU:CD1	2:BL:46:GLN:H	2.32	0.42
3:CK:79:ILE:HG13	3:CK:206:VAL:HG22	2.02	0.42
4:EK:64:LEU:CB	4:EK:101:ILE:HG13	2.49	0.42
1:AL:549:LEU:CD1	2:BM:46:GLN:H	2.30	0.42
2:BL:12:ILE:HG12	2:BL:47:ILE:HG21	2.01	0.42
2:BL:66:PHE:C	2:BM:46:GLN:HE22	2.23	0.42
3:CL:101:ASN:HD21	3:CL:103:ASN:HD21	1.66	0.42
4:DL:105:LEU:C	4:DL:131:ARG:HH12	2.22	0.42
3:CO:240:ARG:NH2	3:CO:243:ASP:OD2	2.53	0.42
4:FP:75:ILE:HA	4:FP:78:LEU:HG	2.00	0.42
2:BQ:309:LEU:HD23	2:BQ:309:LEU:HA	1.88	0.42
2:BR:5:SER:O	2:BR:9:LYS:HG3	2.20	0.42
2:BR:189:LYS:HA	2:BR:189:LYS:HD3	1.87	0.42
2:BS:78:ARG:NH1	2:BS:91:SER:OG	2.45	0.42
1:AT:537:ARG:CA	2:BT:21:ARG:HH22	2.24	0.42
3:CT:79:ILE:HG13	3:CT:206:VAL:HG22	2.01	0.42
3:CT:117:VAL:CG1	3:CT:216:ASN:HB2	2.49	0.42
2:BU:158:MET:SD	2:BU:158:MET:C	2.98	0.42
3:CU:107:LEU:HG	3:CU:177:VAL:HG12	2.00	0.42
4:EU:83:GLN:OE1	4:EU:83:GLN:N	2.51	0.42
4:DV:79:LEU:HD21	4:FW:53:ASP:H	1.85	0.42
4:DV:80:ARG:NH1	4:FW:52:GLN:HB2	2.35	0.42
4:EV:99:ILE:O	4:EV:105:LEU:HD12	2.20	0.42
2:BW:227:GLN:HA	2:BW:230:ILE:HG12	2.02	0.42
3:CW:288:LYS:HZ3	4:DW:118:TYR:H	1.66	0.42
4:EW:99:ILE:O	4:EW:105:LEU:HD12	2.19	0.42
2:BX:151:GLU:CD	2:BX:154:ARG:HH12	2.23	0.42
3:CY:117:VAL:CG1	3:CY:216:ASN:HB2	2.50	0.42
3:CY:244:GLN:HA	3:CY:247:ARG:HG3	2.02	0.42
4:EY:124:ASP:OD1	4:EY:125:ILE:N	2.53	0.42
2:B1:227:GLN:HA	2:B1:230:ILE:HG12	2.02	0.42
2:B2:158:MET:SD	2:B2:158:MET:C	2.98	0.42
2:B2:309:LEU:HD23	2:B2:309:LEU:HA	1.89	0.42
3:C2:101:ASN:HD21	3:C2:103:ASN:HD21	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C2:304:SER:OG	3:C2:305:GLN:N	2.52	0.42
2:B3:228:LYS:HA	2:B3:228:LYS:HD2	1.83	0.42
4:E3:99:ILE:HB	4:E3:107:ALA:HB3	2.01	0.42
1:A5:537:ARG:CA	2:B5:21:ARG:HH22	2.23	0.42
4:E5:64:LEU:CB	4:E5:101:ILE:HG13	2.50	0.42
4:E5:97:LEU:HB2	4:E5:109:GLY:O	2.19	0.42
4:F5:54:ILE:HG13	4:F5:55:ASP:H	1.85	0.42
3:C6:165:TYR:CD2	3:C6:177:VAL:HG11	2.54	0.42
2:B7:151:GLU:CD	2:B7:154:ARG:HH12	2.23	0.42
2:B7:227:GLN:HA	2:B7:230:ILE:HG12	2.02	0.42
3:C7:101:ASN:HD21	3:C7:103:ASN:HD21	1.67	0.42
2:B8:5:SER:O	2:B8:9:LYS:HG3	2.19	0.42
2:BA:5:SER:O	2:BA:9:LYS:HG3	2.20	0.42
2:BB:5:SER:O	2:BB:9:LYS:HG3	2.20	0.42
3:CB:79:ILE:HG13	3:CB:206:VAL:HG22	2.02	0.42
4:DB:114:VAL:O	4:DB:117:LYS:HG2	2.19	0.42
2:BD:151:GLU:CD	2:BD:154:ARG:HH12	2.23	0.42
2:BD:158:MET:SD	2:BD:158:MET:C	2.98	0.42
3:CD:201:ASN:OD1	3:CD:216:ASN:HB3	2.19	0.42
2:BF:300:GLN:O	2:BF:304:GLU:HG2	2.19	0.42
3:CF:107:LEU:HG	3:CF:177:VAL:HG12	2.01	0.42
4:FF:53:ASP:OD2	4:FF:56:LEU:HB3	2.20	0.42
2:BG:114:GLU:HG2	2:BG:115:PRO:HD2	2.01	0.42
3:CG:246:TRP:CZ2	4:EH:83:GLN:HG3	2.55	0.42
2:BH:235:LEU:HB3	2:BH:236:PHE:H	1.68	0.42
2:BH:300:GLN:O	2:BH:304:GLU:HG2	2.19	0.42
3:CH:125:ILE:HD12	3:CH:211:LEU:HD13	2.02	0.42
4:FH:72:ARG:HA	4:FH:72:ARG:HD2	1.93	0.42
2:BI:235:LEU:HD23	2:BI:235:LEU:HA	1.82	0.42
3:CI:294:ALA:O	3:CI:301:VAL:HG22	2.20	0.42
4:FI:75:ILE:HA	4:FI:78:LEU:HG	2.02	0.42
3:CJ:294:ALA:O	3:CJ:301:VAL:HG22	2.20	0.42
4:EJ:64:LEU:CB	4:EJ:101:ILE:HG13	2.50	0.42
3:CK:288:LYS:HZ3	4:DK:118:TYR:H	1.67	0.42
4:FK:75:ILE:HA	4:FK:78:LEU:HG	2.01	0.42
2:BL:233:MET:O	2:BL:313:ARG:NH2	2.52	0.42
1:AN:528:GLY:O	1:AN:532:MET:HG2	2.19	0.42
2:BN:151:GLU:CD	2:BN:154:ARG:HH12	2.23	0.42
2:BN:227:GLN:HA	2:BN:230:ILE:HG12	2.02	0.42
3:CN:256:HIS:NE2	4:FO:104:TYR:OH	2.51	0.42
4:EN:57:ILE:HD12	4:EN:57:ILE:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BO:250:LEU:O	2:BO:254:VAL:HG13	2.19	0.42
3:CO:79:ILE:HG13	3:CO:206:VAL:HG22	2.02	0.42
4:DP:77:GLU:OE2	4:DP:81:LEU:HD21	2.20	0.42
2:BQ:235:LEU:HD23	2:BQ:235:LEU:HA	1.82	0.42
3:CR:117:VAL:CG1	3:CR:216:ASN:HB2	2.49	0.42
2:BS:12:ILE:HD13	2:BS:55:VAL:HG21	2.01	0.42
3:CT:304:SER:OG	3:CT:305:GLN:N	2.52	0.42
2:BU:135:VAL:HG11	2:BU:161:ILE:HD12	2.02	0.42
3:CV:199:VAL:HG12	3:CV:220:PRO:HA	2.00	0.42
4:FV:101:ILE:HG12	4:FV:106:ILE:HD11	2.01	0.42
4:DW:78:LEU:HA	4:DW:81:LEU:HG	2.01	0.42
4:EW:97:LEU:HB2	4:EW:109:GLY:O	2.19	0.42
4:DX:76:LYS:HD3	4:DX:79:LEU:HD13	2.02	0.42
2:BY:111:ASN:OD1	2:BY:137:LEU:HB3	2.20	0.42
2:B1:158:MET:SD	2:B1:158:MET:C	2.98	0.42
2:B2:151:GLU:CD	2:B2:154:ARG:HH12	2.23	0.42
2:B2:234:PHE:O	2:B2:238:ASN:HB2	2.20	0.42
2:B2:235:LEU:HB3	2:B2:236:PHE:H	1.67	0.42
4:F2:65:THR:HG22	4:F2:66:VAL:N	2.35	0.42
2:B3:77:LEU:HD22	2:B4:41:MET:SD	2.60	0.42
2:B3:151:GLU:CD	2:B3:154:ARG:HH12	2.23	0.42
4:F3:101:ILE:HG12	4:F3:106:ILE:HD11	2.01	0.42
3:C4:110:LEU:HD12	3:C4:223:MET:HE3	2.02	0.42
3:C4:294:ALA:HB3	3:C4:302:LEU:HG	2.01	0.42
2:B5:234:PHE:O	2:B5:238:ASN:HB2	2.20	0.42
2:B6:210:GLN:O	2:B6:214:VAL:HG23	2.19	0.42
4:E6:76:LYS:HZ1	4:F6:58:MET:HB2	1.84	0.42
4:E7:97:LEU:HB2	4:E7:109:GLY:O	2.19	0.42
4:E7:99:ILE:O	4:E7:105:LEU:HD12	2.19	0.42
4:D8:75:ILE:O	4:D8:78:LEU:HG	2.19	0.42
4:E8:97:LEU:HG	4:E8:111:VAL:HG23	2.02	0.42
1:A9:558:ASP:OD1	2:B9:5:SER:OG	2.33	0.42
2:B9:300:GLN:O	2:B9:304:GLU:HG2	2.19	0.42
3:C9:113:THR:O	3:C9:191:ILE:HD11	2.20	0.42
3:C9:271:ARG:O	3:C9:275:ILE:HG12	2.20	0.42
4:E9:98:ASP:HA	4:E9:108:GLN:HA	2.01	0.42
2:BB:70:ASN:HA	2:BC:15:MET:HE1	2.02	0.42
3:CC:79:ILE:HG13	3:CC:206:VAL:HG22	2.02	0.42
4:FC:105:LEU:HD23	4:FC:131:ARG:HG3	2.02	0.42
2:BD:300:GLN:O	2:BD:304:GLU:HG2	2.19	0.42
3:CE:63:ARG:HA	3:CE:63:ARG:HD3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:101:ASN:HD21	3:CE:103:ASN:HD21	1.66	0.42
3:CE:288:LYS:HZ3	4:DE:118:TYR:N	2.17	0.42
4:FE:124:ASP:OD1	4:FE:124:ASP:N	2.51	0.42
2:BF:210:GLN:O	2:BF:214:VAL:HG23	2.19	0.42
2:BF:234:PHE:O	2:BF:238:ASN:HB2	2.20	0.42
3:CF:79:ILE:HG13	3:CF:206:VAL:HG22	2.02	0.42
3:CF:222:SER:HA	3:CF:225:GLU:HG2	2.01	0.42
2:BG:227:GLN:HA	2:BG:230:ILE:HG12	2.02	0.42
3:CG:268:ILE:O	4:DG:64:LEU:HB2	2.20	0.42
4:DG:80:ARG:NH1	4:FH:52:GLN:HB2	2.35	0.42
4:FG:64:LEU:HA	4:FG:101:ILE:HA	2.02	0.42
1:AH:517:GLN:NE2	1:AH:518:LEU:HD23	2.35	0.42
2:BH:151:GLU:CD	2:BH:154:ARG:HH12	2.23	0.42
2:BH:250:LEU:O	2:BH:254:VAL:HG13	2.19	0.42
3:CH:156:ARG:HA	3:CH:159:LYS:HZ3	1.84	0.42
3:CH:296:VAL:O	3:CH:299:VAL:HG12	2.20	0.42
1:AI:532:MET:HA	1:AI:535:ARG:HG3	2.00	0.42
2:BI:297:ARG:HA	2:BI:297:ARG:CZ	2.49	0.42
2:BJ:78:ARG:NH1	2:BJ:91:SER:OG	2.45	0.42
2:BJ:93:LEU:HD13	2:BJ:93:LEU:HA	1.92	0.42
2:BJ:234:PHE:O	2:BJ:238:ASN:HB2	2.20	0.42
3:CJ:68:GLY:HA3	3:CJ:160:LEU:HD21	2.02	0.42
2:BK:227:GLN:HA	2:BK:230:ILE:HG12	2.01	0.42
4:EK:99:ILE:HB	4:EK:107:ALA:HB3	2.01	0.42
3:CL:250:LEU:HD22	4:EM:79:LEU:HA	2.02	0.42
2:BN:300:GLN:O	2:BN:304:GLU:HG2	2.19	0.42
3:CN:113:THR:O	3:CN:191:ILE:HD11	2.19	0.42
4:EN:99:ILE:O	4:EN:105:LEU:HD12	2.20	0.42
3:CO:219:LEU:HD12	3:CO:223:MET:HG3	2.01	0.42
4:EP:64:LEU:HB3	4:EP:101:ILE:HG13	2.02	0.42
1:AQ:549:LEU:CD1	2:BR:46:GLN:H	2.31	0.42
4:EQ:97:LEU:HG	4:EQ:111:VAL:HG23	2.01	0.42
4:ER:61:PRO:N	4:FR:74:THR:HG22	2.35	0.42
4:DS:114:VAL:O	4:DS:117:LYS:HG2	2.20	0.42
2:BT:229:ILE:O	2:BT:233:MET:HG2	2.19	0.42
2:BV:5:SER:O	2:BV:9:LYS:HG3	2.19	0.42
2:BV:78:ARG:NH1	2:BV:91:SER:OG	2.45	0.42
2:BV:129:ILE:HD12	2:BV:132:THR:CG2	2.50	0.42
3:CV:181:ARG:NE	3:CV:183:GLU:OE2	2.38	0.42
3:CV:242:GLU:HB2	3:CV:246:TRP:HD1	1.85	0.42
4:DV:75:ILE:H	4:DV:75:ILE:HD12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EV:105:LEU:O	4:EV:131:ARG:NH2	2.44	0.42
2:BW:149:PHE:O	2:BW:154:ARG:NH2	2.53	0.42
2:BW:300:GLN:O	2:BW:304:GLU:HG2	2.19	0.42
2:BX:229:ILE:O	2:BX:233:MET:HG2	2.18	0.42
4:DX:75:ILE:H	4:DX:75:ILE:HD12	1.85	0.42
4:EX:98:ASP:HA	4:EX:108:GLN:HA	2.02	0.42
4:EX:99:ILE:O	4:EX:105:LEU:HD12	2.19	0.42
2:BY:5:SER:O	2:BY:9:LYS:HG3	2.19	0.42
2:BY:234:PHE:O	2:BY:238:ASN:HB2	2.20	0.42
4:EY:105:LEU:O	4:EY:131:ARG:NH2	2.44	0.42
4:EY:121:ARG:HH22	4:FY:85:SER:N	2.16	0.42
4:FY:65:THR:HG22	4:FY:66:VAL:N	2.35	0.42
3:C3:101:ASN:HD21	3:C3:103:ASN:HD21	1.68	0.42
2:B4:329:THR:HB	2:B5:298:LEU:HD22	2.02	0.42
4:E4:97:LEU:HG	4:E4:111:VAL:HG23	2.02	0.42
2:B5:97:ILE:O	2:B5:101:ARG:NE	2.52	0.42
3:C5:117:VAL:CG1	3:C5:216:ASN:HB2	2.49	0.42
4:E5:97:LEU:HG	4:E5:111:VAL:HG23	2.02	0.42
2:B6:66:PHE:C	2:B7:46:GLN:HE22	2.22	0.42
4:D6:78:LEU:HA	4:D6:81:LEU:HG	2.01	0.42
4:E8:69:GLY:HA3	4:E8:89:LEU:CD2	2.46	0.42
3:C9:117:VAL:CG1	3:C9:216:ASN:HB2	2.49	0.42
2:BA:329:THR:HB	2:BB:298:LEU:HD22	2.02	0.42
3:CA:256:HIS:HE1	4:FB:104:TYR:OH	2.02	0.42
4:DA:78:LEU:HA	4:DA:81:LEU:HG	2.00	0.42
4:FA:100:LEU:HA	4:FA:106:ILE:HG12	2.02	0.42
4:FB:117:LYS:HA	4:FB:117:LYS:HD3	1.86	0.42
1:AD:537:ARG:CA	2:BD:21:ARG:HH22	2.23	0.42
3:CE:279:LYS:HD2	3:CE:279:LYS:HA	1.86	0.42
3:CE:296:VAL:O	3:CE:299:VAL:HG12	2.20	0.42
3:CG:79:ILE:HG13	3:CG:206:VAL:HG22	2.02	0.42
4:EG:124:ASP:OD1	4:EG:125:ILE:N	2.53	0.42
2:BH:70:ASN:HA	2:BI:15:MET:HE1	2.02	0.42
3:CH:165:TYR:CD2	3:CH:177:VAL:HG11	2.55	0.42
4:FH:65:THR:HG22	4:FH:66:VAL:N	2.35	0.42
2:BI:227:GLN:HA	2:BI:230:ILE:HG12	2.02	0.42
2:BI:329:THR:HB	2:BJ:298:LEU:HD22	2.02	0.42
4:EI:72:ARG:NH2	4:EI:73:MET:O	2.49	0.42
3:CJ:222:SER:HA	3:CJ:225:GLU:HG2	2.01	0.42
3:CJ:288:LYS:HZ3	4:DJ:118:TYR:H	1.68	0.42
2:BL:227:GLN:HA	2:BL:230:ILE:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:54:LEU:HA	3:CL:57:ILE:HG22	2.00	0.42
3:CL:221:PHE:O	3:CL:225:GLU:HG2	2.20	0.42
4:EM:99:ILE:O	4:EM:105:LEU:HD12	2.19	0.42
4:FM:105:LEU:HG	4:FM:126:ILE:HG13	2.02	0.42
3:CN:288:LYS:HA	3:CN:288:LYS:HD3	1.85	0.42
4:DN:101:ILE:HG13	4:EN:60:ILE:HD11	2.02	0.42
4:FN:75:ILE:HA	4:FN:78:LEU:HG	2.01	0.42
2:BO:227:GLN:HA	2:BO:230:ILE:HG12	2.02	0.42
3:CO:237:GLU:HG3	3:CP:111:ARG:HE	1.85	0.42
2:BQ:228:LYS:HA	2:BQ:228:LYS:HD2	1.83	0.42
2:BQ:329:THR:HB	2:BR:298:LEU:HD22	2.00	0.42
4:FQ:65:THR:HG22	4:FQ:66:VAL:N	2.34	0.42
2:BS:234:PHE:O	2:BS:238:ASN:HB2	2.20	0.42
3:CS:107:LEU:HG	3:CS:177:VAL:HG12	2.00	0.42
4:ES:99:ILE:O	4:ES:105:LEU:HD12	2.20	0.42
4:DU:105:LEU:C	4:DU:131:ARG:HH12	2.20	0.42
2:BV:203:ILE:HD12	2:BV:214:VAL:HG11	2.02	0.42
2:BW:147:ALA:HA	2:BX:210:GLN:HE21	1.83	0.42
3:CW:304:SER:OG	3:CW:305:GLN:N	2.52	0.42
3:CX:107:LEU:HG	3:CX:177:VAL:HG12	2.00	0.42
3:CY:54:LEU:HA	3:CY:57:ILE:HG22	2.00	0.42
3:CY:113:THR:O	3:CY:191:ILE:HD11	2.19	0.42
2:B1:300:GLN:O	2:B1:304:GLU:HG2	2.19	0.42
3:C1:64:GLN:O	3:C1:67:MET:HG3	2.20	0.42
4:D2:126:ILE:HG13	4:D2:127:THR:N	2.35	0.42
3:C3:205:HIS:CE1	3:C3:212:THR:HB	2.55	0.42
4:D3:75:ILE:HD12	4:D3:75:ILE:H	1.85	0.42
4:D3:77:GLU:OE2	4:D3:81:LEU:HD21	2.20	0.42
2:B5:151:GLU:CD	2:B5:154:ARG:HH12	2.23	0.42
2:B6:149:PHE:O	2:B6:154:ARG:NH2	2.53	0.42
3:C6:253:GLN:NE2	4:F7:106:ILE:HD13	2.34	0.42
4:F6:53:ASP:OD2	4:F6:56:LEU:HB3	2.20	0.42
2:B7:48:SER:HB3	2:B7:51:GLN:HG3	2.02	0.42
2:B7:68:ALA:HB2	2:B8:47:ILE:O	2.20	0.42
2:B8:234:PHE:O	2:B8:238:ASN:HB2	2.20	0.42
3:C8:125:ILE:HD12	3:C8:211:LEU:HD13	2.02	0.42
3:C9:257:SER:HB3	4:FA:104:TYR:CD2	2.55	0.42
4:FA:54:ILE:HG13	4:FA:55:ASP:H	1.83	0.42
2:BB:151:GLU:CD	2:BB:154:ARG:HH12	2.23	0.42
2:BB:194:GLY:O	2:BB:198:THR:OG1	2.33	0.42
3:CB:125:ILE:HD12	3:CB:211:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:199:VAL:HG12	3:CB:220:PRO:HA	2.01	0.42
3:CB:272:LEU:HD23	4:DB:60:ILE:HB	2.01	0.42
2:BC:215:ILE:HA	2:BC:218:VAL:HG12	2.01	0.42
4:DC:126:ILE:HG13	4:DC:127:THR:N	2.35	0.42
4:EC:99:ILE:HB	4:EC:107:ALA:HB3	2.01	0.42
2:BD:227:GLN:HA	2:BD:230:ILE:HG12	2.02	0.42
3:CD:260:GLU:O	3:CD:296:VAL:HG12	2.19	0.42
4:FD:75:ILE:HA	4:FD:78:LEU:HG	2.02	0.42
3:CE:113:THR:O	3:CE:191:ILE:HD11	2.20	0.42
3:CE:125:ILE:HD12	3:CE:211:LEU:HD13	2.02	0.42
4:EE:69:GLY:HA3	4:EE:89:LEU:CD2	2.45	0.42
2:BF:5:SER:O	2:BF:9:LYS:HG3	2.20	0.42
2:BG:134:LEU:HD21	2:BG:146:LEU:HD12	2.02	0.42
2:BG:215:ILE:HA	2:BG:218:VAL:HG12	2.02	0.42
4:DG:126:ILE:HG13	4:DG:127:THR:N	2.35	0.42
2:BH:5:SER:O	2:BH:9:LYS:HG3	2.19	0.42
3:CI:199:VAL:HG12	3:CI:220:PRO:HA	2.00	0.42
3:CI:288:LYS:HA	3:CI:288:LYS:HD3	1.85	0.42
4:FI:117:LYS:HA	4:FI:117:LYS:HD3	1.87	0.42
2:BJ:235:LEU:HA	2:BJ:235:LEU:HD23	1.82	0.42
2:BK:26:PHE:HA	2:BK:29:LEU:HB2	2.02	0.42
3:CK:125:ILE:HD12	3:CK:211:LEU:HD13	2.02	0.42
2:BL:78:ARG:NH1	2:BL:91:SER:OG	2.44	0.42
4:DL:126:ILE:HG13	4:DL:127:THR:N	2.35	0.42
4:EL:105:LEU:O	4:EL:131:ARG:NH2	2.45	0.42
4:FL:75:ILE:HA	4:FL:78:LEU:HG	2.02	0.42
2:BM:131:ALA:HA	2:BM:157:VAL:HG13	2.02	0.42
2:BM:234:PHE:O	2:BM:238:ASN:HB2	2.20	0.42
3:CM:205:HIS:CE1	3:CM:212:THR:HB	2.55	0.42
2:BN:5:SER:O	2:BN:9:LYS:HG3	2.20	0.42
4:EN:64:LEU:CB	4:EN:101:ILE:HG13	2.50	0.42
1:AP:528:GLY:O	1:AP:532:MET:HG2	2.19	0.42
2:BP:235:LEU:HA	2:BP:235:LEU:HD23	1.82	0.42
4:EP:98:ASP:HA	4:EP:108:GLN:HA	2.02	0.42
2:BQ:72:ASN:HB3	2:BQ:75:GLU:HG3	2.02	0.42
3:CQ:244:GLN:O	3:CQ:247:ARG:HG3	2.20	0.42
4:FQ:53:ASP:OD2	4:FQ:56:LEU:HB3	2.20	0.42
2:BR:124:ASP:N	2:BR:124:ASP:OD1	2.48	0.42
3:CR:165:TYR:CD2	3:CR:177:VAL:HG11	2.55	0.42
2:BS:26:PHE:HA	2:BS:29:LEU:HB2	2.02	0.42
2:BT:5:SER:O	2:BT:9:LYS:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BT:227:GLN:HA	2:BT:230:ILE:HG12	2.02	0.42
2:BU:5:SER:O	2:BU:9:LYS:HG3	2.19	0.42
2:BU:60:GLU:HG2	1:AV:522:ARG:HH12	1.85	0.42
3:CU:64:GLN:O	3:CU:67:MET:HG3	2.20	0.42
4:EU:69:GLY:HA3	4:EU:89:LEU:CD2	2.44	0.42
4:EU:97:LEU:HG	4:EU:111:VAL:HG23	2.02	0.42
2:BV:234:PHE:O	2:BV:238:ASN:HB2	2.20	0.42
2:BV:263:LEU:HD23	2:BV:263:LEU:HA	1.91	0.42
3:CV:79:ILE:HG13	3:CV:206:VAL:HG22	2.02	0.42
3:CV:201:ASN:OD1	3:CV:216:ASN:HB3	2.19	0.42
4:DV:104:TYR:CD2	4:EV:60:ILE:HD13	2.53	0.42
1:AW:535:ARG:HD2	1:AW:536:ILE:N	2.35	0.42
2:BW:26:PHE:HA	2:BW:29:LEU:HB2	2.02	0.42
2:BW:129:ILE:HA	2:BW:132:THR:HG22	2.01	0.42
3:CW:64:GLN:O	3:CW:67:MET:HG3	2.20	0.42
2:BY:129:ILE:HD12	2:BY:132:THR:CG2	2.50	0.42
3:CY:272:LEU:HD23	4:DY:60:ILE:HB	2.01	0.42
4:EY:99:ILE:O	4:EY:105:LEU:HD12	2.20	0.42
3:C1:199:VAL:HG12	3:C1:220:PRO:HA	2.01	0.41
3:C1:240:ARG:NH2	3:C1:243:ASP:OD2	2.53	0.41
4:D1:114:VAL:O	4:D1:117:LYS:HG2	2.20	0.41
2:B2:228:LYS:HA	2:B2:228:LYS:HD2	1.83	0.41
3:C3:165:TYR:CD2	3:C3:177:VAL:HG11	2.55	0.41
3:C3:201:ASN:OD1	3:C3:216:ASN:HB3	2.19	0.41
4:E3:100:LEU:HD21	4:E3:103:GLY:HA2	2.02	0.41
2:B4:5:SER:O	2:B4:9:LYS:HG3	2.19	0.41
3:C4:244:GLN:HA	3:C4:247:ARG:HG3	2.02	0.41
4:E4:97:LEU:HB2	4:E4:109:GLY:O	2.19	0.41
1:A5:525:GLN:NE2	2:B5:49:ASN:HB2	2.35	0.41
4:E5:99:ILE:O	4:E5:105:LEU:HD12	2.20	0.41
4:F5:105:LEU:HD23	4:F5:131:ARG:HG3	2.02	0.41
1:A7:551:ILE:O	1:A7:555:MET:HG2	2.20	0.41
4:E7:97:LEU:HG	4:E7:111:VAL:HG23	2.02	0.41
2:B8:227:GLN:HA	2:B8:230:ILE:HG12	2.02	0.41
3:C8:165:TYR:CD2	3:C8:177:VAL:HG11	2.55	0.41
4:F8:72:ARG:HD2	4:F8:72:ARG:HA	1.88	0.41
4:F8:117:LYS:HA	4:F8:117:LYS:HD3	1.87	0.41
3:CA:117:VAL:CG1	3:CA:216:ASN:HB2	2.49	0.41
2:BB:227:GLN:HA	2:BB:230:ILE:HG12	2.02	0.41
3:CB:221:PHE:O	3:CB:225:GLU:HG2	2.20	0.41
3:CB:222:SER:HA	3:CB:225:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DB:126:ILE:HG13	4:DB:127:THR:N	2.35	0.41
3:CE:153:VAL:O	3:CE:157:MET:HE2	2.20	0.41
4:EE:97:LEU:HG	4:EE:111:VAL:HG23	2.01	0.41
2:BF:93:LEU:HD13	2:BF:93:LEU:HA	1.92	0.41
4:DF:114:VAL:O	4:DF:117:LYS:HG2	2.20	0.41
4:DF:126:ILE:HG13	4:DF:127:THR:N	2.35	0.41
4:EF:97:LEU:HG	4:EF:111:VAL:HG23	2.01	0.41
4:EG:99:ILE:HB	4:EG:107:ALA:HB3	2.00	0.41
4:EG:121:ARG:NH1	4:FG:85:SER:O	2.53	0.41
4:DI:126:ILE:HG13	4:DI:127:THR:N	2.34	0.41
3:CJ:79:ILE:HG13	3:CJ:206:VAL:HG22	2.02	0.41
3:CJ:165:TYR:CD2	3:CJ:177:VAL:HG11	2.55	0.41
3:CK:165:TYR:CD2	3:CK:177:VAL:HG11	2.55	0.41
4:DK:126:ILE:HG13	4:DK:127:THR:N	2.35	0.41
2:BL:70:ASN:HA	2:BM:15:MET:HE1	2.02	0.41
2:BL:158:MET:HE1	2:BM:218:VAL:HB	2.00	0.41
3:CM:113:THR:O	3:CM:191:ILE:HD11	2.20	0.41
2:BN:203:ILE:CD1	2:BN:214:VAL:HG11	2.50	0.41
4:DN:114:VAL:O	4:DN:117:LYS:HG2	2.19	0.41
2:BO:26:PHE:HA	2:BO:29:LEU:HB2	2.02	0.41
3:CO:222:SER:HA	3:CO:225:GLU:HG2	2.01	0.41
3:CP:199:VAL:HG12	3:CP:220:PRO:HA	2.00	0.41
2:BQ:5:SER:O	2:BQ:9:LYS:HG3	2.20	0.41
2:BQ:70:ASN:HA	2:BR:15:MET:HE1	2.01	0.41
3:CQ:205:HIS:CE1	3:CQ:212:THR:HB	2.55	0.41
3:CR:221:PHE:O	3:CR:225:GLU:HG2	2.19	0.41
4:ER:99:ILE:O	4:ER:105:LEU:HD12	2.19	0.41
3:CT:64:GLN:O	3:CT:67:MET:HG3	2.20	0.41
4:EU:73:MET:HE2	4:EU:77:GLU:OE2	2.20	0.41
3:CV:113:THR:O	3:CV:191:ILE:HD11	2.20	0.41
4:EV:72:ARG:NH2	4:FV:61:PRO:HB2	2.34	0.41
3:CW:107:LEU:HG	3:CW:177:VAL:HG12	2.00	0.41
3:CW:165:TYR:CD2	3:CW:177:VAL:HG11	2.55	0.41
4:DW:114:VAL:O	4:DW:117:LYS:HG2	2.20	0.41
2:BX:60:GLU:HG2	1:AY:522:ARG:HH12	1.85	0.41
2:BX:189:LYS:HA	2:BX:189:LYS:HD3	1.87	0.41
2:BX:227:GLN:HA	2:BX:230:ILE:HG12	2.02	0.41
2:BX:234:PHE:O	2:BX:238:ASN:HB2	2.20	0.41
3:CX:64:GLN:HG2	3:CX:164:GLY:HA2	2.01	0.41
4:FX:53:ASP:OD2	4:FX:56:LEU:HB3	2.20	0.41
4:DY:116:ASP:O	4:DY:116:ASP:OD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:5:SER:O	2:B1:9:LYS:HG3	2.19	0.41
3:C1:294:ALA:O	3:C1:301:VAL:HG22	2.20	0.41
2:B2:60:GLU:HG2	1:A3:522:ARG:HH12	1.85	0.41
3:C2:64:GLN:O	3:C2:67:MET:HG3	2.20	0.41
3:C2:165:TYR:CD2	3:C2:177:VAL:HG11	2.55	0.41
3:C2:205:HIS:CE1	3:C2:212:THR:HB	2.55	0.41
3:C2:221:PHE:O	3:C2:225:GLU:HG2	2.20	0.41
3:C2:257:SER:HB3	4:F3:104:TYR:CD2	2.56	0.41
4:F2:101:ILE:O	4:F2:101:ILE:HG13	2.20	0.41
1:A3:549:LEU:CD1	2:B4:46:GLN:H	2.31	0.41
4:D3:126:ILE:HG13	4:D3:127:THR:N	2.35	0.41
4:F3:75:ILE:HA	4:F3:78:LEU:HG	2.00	0.41
4:F3:117:LYS:HD3	4:F3:117:LYS:HA	1.86	0.41
2:B4:151:GLU:CD	2:B4:154:ARG:HH12	2.23	0.41
2:B5:101:ARG:HH12	2:B6:42:ALA:HB1	1.85	0.41
2:B5:227:GLN:HA	2:B5:230:ILE:HG12	2.02	0.41
3:C5:296:VAL:O	3:C5:299:VAL:HG12	2.20	0.41
3:C6:221:PHE:O	3:C6:225:GLU:HG2	2.20	0.41
3:C6:247:ARG:HD2	3:C6:248:ASP:N	2.35	0.41
4:E8:64:LEU:CB	4:E8:101:ILE:HG13	2.49	0.41
4:F8:53:ASP:OD2	4:F8:56:LEU:HB3	2.20	0.41
2:B9:72:ASN:HB3	2:B9:75:GLU:HG3	2.02	0.41
4:F9:75:ILE:HA	4:F9:78:LEU:HG	2.02	0.41
4:DA:126:ILE:HG13	4:DA:127:THR:N	2.35	0.41
4:EB:99:ILE:O	4:EB:105:LEU:HD12	2.20	0.41
2:BC:26:PHE:HA	2:BC:29:LEU:HB2	2.02	0.41
2:BC:227:GLN:HA	2:BC:230:ILE:HG12	2.02	0.41
3:CC:125:ILE:HD12	3:CC:211:LEU:HD13	2.02	0.41
4:DC:75:ILE:H	4:DC:75:ILE:HD12	1.85	0.41
4:FC:75:ILE:HA	4:FC:78:LEU:HG	2.02	0.41
2:BD:26:PHE:HA	2:BD:29:LEU:HB2	2.02	0.41
2:BD:329:THR:HB	2:BE:298:LEU:HD22	2.01	0.41
3:CD:125:ILE:HD12	3:CD:211:LEU:HD13	2.02	0.41
3:CD:165:TYR:CD2	3:CD:177:VAL:HG11	2.55	0.41
4:DD:126:ILE:HG13	4:DD:127:THR:N	2.35	0.41
2:BE:26:PHE:HA	2:BE:29:LEU:HB2	2.03	0.41
4:DE:55:ASP:O	4:DE:58:MET:HB2	2.20	0.41
2:BF:151:GLU:CD	2:BF:154:ARG:HH12	2.23	0.41
2:BF:227:GLN:HA	2:BF:230:ILE:HG12	2.02	0.41
4:EF:99:ILE:O	4:EF:105:LEU:HD12	2.19	0.41
2:BG:26:PHE:HA	2:BG:29:LEU:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CG:221:PHE:O	3:CG:225:GLU:HG2	2.20	0.41
3:CH:68:GLY:HA3	3:CH:160:LEU:HD21	2.00	0.41
4:EH:99:ILE:O	4:EH:105:LEU:HD12	2.19	0.41
2:BI:210:GLN:O	2:BI:214:VAL:HG23	2.19	0.41
2:BI:234:PHE:O	2:BI:238:ASN:HB2	2.20	0.41
4:DJ:126:ILE:HG13	4:DJ:127:THR:N	2.35	0.41
2:BK:234:PHE:O	2:BK:238:ASN:HB2	2.20	0.41
3:CK:296:VAL:O	3:CK:299:VAL:HG12	2.20	0.41
2:BL:234:PHE:O	2:BL:238:ASN:HB2	2.20	0.41
3:CL:205:HIS:CE1	3:CL:212:THR:HB	2.55	0.41
3:CL:296:VAL:O	3:CL:299:VAL:HG12	2.20	0.41
2:BM:329:THR:HB	2:BN:298:LEU:HD22	2.02	0.41
3:CM:165:TYR:CD2	3:CM:177:VAL:HG11	2.56	0.41
4:DM:75:ILE:H	4:DM:75:ILE:HD12	1.86	0.41
4:DM:126:ILE:HG13	4:DM:127:THR:N	2.35	0.41
2:BN:41:MET:O	2:BN:44:VAL:HG12	2.20	0.41
3:CO:256:HIS:NE2	4:FP:104:TYR:CZ	2.88	0.41
3:CQ:107:LEU:HG	3:CQ:177:VAL:HG12	2.01	0.41
3:CQ:113:THR:O	3:CQ:191:ILE:HD11	2.20	0.41
3:CQ:288:LYS:NZ	4:DQ:116:ASP:O	2.43	0.41
2:BR:41:MET:O	2:BR:44:VAL:HG12	2.20	0.41
3:CR:64:GLN:O	3:CR:67:MET:HG3	2.20	0.41
4:FR:65:THR:HG22	4:FR:66:VAL:N	2.35	0.41
2:BS:77:LEU:HD21	2:BT:38:SER:HB3	2.02	0.41
2:BS:215:ILE:HA	2:BS:218:VAL:HG12	2.02	0.41
3:CS:64:GLN:O	3:CS:67:MET:HG3	2.20	0.41
3:CS:112:GLY:HA3	3:CS:223:MET:SD	2.61	0.41
3:CS:117:VAL:CG1	3:CS:216:ASN:HB2	2.49	0.41
4:ES:67:GLU:CD	4:FS:65:THR:HG21	2.40	0.41
4:FS:96:PRO:HB2	4:FS:108:GLN:HB3	2.02	0.41
2:BT:300:GLN:O	2:BT:304:GLU:HG2	2.19	0.41
4:DT:126:ILE:HG13	4:DT:127:THR:N	2.35	0.41
2:BU:227:GLN:HA	2:BU:230:ILE:HG12	2.02	0.41
3:CU:205:HIS:CE1	3:CU:212:THR:HB	2.55	0.41
4:FU:54:ILE:HG13	4:FU:55:ASP:H	1.85	0.41
3:CV:64:GLN:HG2	3:CV:164:GLY:HA2	2.01	0.41
4:EV:75:ILE:HA	4:EV:78:LEU:HD12	2.02	0.41
3:CX:165:TYR:CD2	3:CX:177:VAL:HG11	2.55	0.41
2:BY:26:PHE:HA	2:BY:29:LEU:HB2	2.02	0.41
2:BY:151:GLU:CD	2:BY:154:ARG:HH12	2.23	0.41
2:B1:46:GLN:H	1:AY:549:LEU:CD1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:70:ASN:HA	2:B2:15:MET:HE1	2.01	0.41
3:C1:279:LYS:HD2	3:C1:279:LYS:HA	1.86	0.41
4:D2:80:ARG:NH1	4:F3:52:GLN:HB2	2.36	0.41
2:B3:129:ILE:HA	2:B3:132:THR:HG22	2.01	0.41
2:B3:234:PHE:O	2:B3:238:ASN:HB2	2.20	0.41
3:C3:107:LEU:HG	3:C3:177:VAL:HG12	2.00	0.41
4:E3:67:GLU:CD	4:F3:65:THR:HG21	2.41	0.41
4:E3:76:LYS:O	4:E3:79:LEU:HG	2.20	0.41
4:E3:97:LEU:HB2	4:E3:109:GLY:O	2.19	0.41
4:E3:128:PRO:HA	4:E3:131:ARG:HG3	2.01	0.41
2:B4:234:PHE:O	2:B4:238:ASN:HB2	2.20	0.41
2:B4:263:LEU:HD23	2:B4:263:LEU:HA	1.91	0.41
3:C4:205:HIS:CE1	3:C4:212:THR:HB	2.55	0.41
4:D4:126:ILE:HG13	4:D4:127:THR:N	2.35	0.41
3:C5:221:PHE:O	3:C5:225:GLU:HG2	2.19	0.41
4:D6:75:ILE:HD12	4:D6:75:ILE:H	1.86	0.41
2:B7:234:PHE:O	2:B7:238:ASN:HB2	2.20	0.41
2:B7:300:GLN:O	2:B7:304:GLU:HG2	2.19	0.41
4:E7:76:LYS:HZ1	4:F7:58:MET:HB2	1.85	0.41
1:A8:549:LEU:CD1	2:B9:46:GLN:H	2.33	0.41
4:D8:80:ARG:NH1	4:F9:52:GLN:HB2	2.35	0.41
3:C9:165:TYR:CD2	3:C9:177:VAL:HG11	2.56	0.41
4:D9:78:LEU:HA	4:D9:81:LEU:HG	2.01	0.41
4:D9:126:ILE:HG13	4:D9:127:THR:N	2.35	0.41
2:BA:211:GLU:HA	2:BA:214:VAL:HG22	2.01	0.41
3:CA:156:ARG:HA	3:CA:159:LYS:HZ3	1.85	0.41
4:DA:102:ASN:CG	4:FA:72:ARG:HH22	2.24	0.41
4:EA:61:PRO:HB2	4:FA:72:ARG:NE	2.35	0.41
2:BB:234:PHE:O	2:BB:238:ASN:HB2	2.20	0.41
3:CB:113:THR:O	3:CB:191:ILE:HD11	2.20	0.41
3:CB:271:ARG:O	3:CB:275:ILE:HG12	2.21	0.41
2:BC:5:SER:O	2:BC:9:LYS:HG3	2.20	0.41
2:BD:12:ILE:HD13	2:BD:55:VAL:HG21	2.01	0.41
2:BD:77:LEU:HB2	2:BE:41:MET:SD	2.60	0.41
4:ED:97:LEU:HG	4:ED:111:VAL:HG23	2.01	0.41
4:FD:57:ILE:HG13	4:FD:60:ILE:HB	2.02	0.41
4:FD:63:LYS:O	4:FD:102:ASN:N	2.51	0.41
2:BE:66:PHE:C	2:BF:46:GLN:HE22	2.23	0.41
2:BE:215:ILE:HA	2:BE:218:VAL:HG12	2.02	0.41
2:BE:309:LEU:HD23	2:BE:309:LEU:HA	1.89	0.41
1:AF:525:GLN:NE2	2:BF:49:ASN:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:165:TYR:CD2	3:CF:177:VAL:HG11	2.55	0.41
3:CG:165:TYR:CD2	3:CG:177:VAL:HG11	2.55	0.41
4:EG:61:PRO:N	4:FG:74:THR:HG22	2.35	0.41
2:BH:26:PHE:HA	2:BH:29:LEU:HB2	2.02	0.41
2:BH:235:LEU:HD23	2:BH:235:LEU:HA	1.80	0.41
4:DH:77:GLU:OE2	4:DH:81:LEU:HD21	2.20	0.41
4:EH:77:GLU:OE1	4:EH:77:GLU:N	2.50	0.41
2:BI:26:PHE:HA	2:BI:29:LEU:HB2	2.03	0.41
2:BI:151:GLU:CD	2:BI:154:ARG:HH12	2.23	0.41
3:CI:221:PHE:O	3:CI:225:GLU:HG2	2.21	0.41
3:CI:246:TRP:HA	3:CI:249:ASN:ND2	2.35	0.41
4:DI:80:ARG:NH1	4:FJ:52:GLN:HB2	2.36	0.41
2:BL:5:SER:O	2:BL:9:LYS:HG3	2.20	0.41
2:BM:127:PRO:HA	2:BM:130:ILE:HD12	2.02	0.41
4:EM:105:LEU:O	4:EM:131:ARG:NH2	2.44	0.41
2:BN:26:PHE:HA	2:BN:29:LEU:HB2	2.02	0.41
4:EN:76:LYS:HZ1	4:FN:58:MET:HB2	1.86	0.41
1:AO:525:GLN:NE2	2:BO:49:ASN:HB2	2.35	0.41
3:CO:117:VAL:CG1	3:CO:216:ASN:HB2	2.50	0.41
4:DO:101:ILE:HG13	4:EO:60:ILE:HD11	2.02	0.41
3:CP:113:THR:O	3:CP:191:ILE:HD11	2.20	0.41
3:CP:288:LYS:HA	3:CP:288:LYS:HD3	1.85	0.41
3:CQ:64:GLN:O	3:CQ:67:MET:HG3	2.20	0.41
3:CQ:253:GLN:OE1	4:FR:125:ILE:HB	2.21	0.41
4:FQ:117:LYS:HD3	4:FQ:117:LYS:HA	1.87	0.41
4:DS:105:LEU:C	4:DS:131:ARG:HH12	2.22	0.41
2:BU:26:PHE:HA	2:BU:29:LEU:HB2	2.03	0.41
3:CU:244:GLN:HA	3:CU:247:ARG:HG3	2.02	0.41
4:FU:105:LEU:HD23	4:FU:131:ARG:HG3	2.02	0.41
2:BV:227:GLN:HA	2:BV:230:ILE:HG12	2.02	0.41
2:BW:5:SER:O	2:BW:9:LYS:HG3	2.19	0.41
4:EW:97:LEU:HG	4:EW:111:VAL:HG23	2.02	0.41
3:CX:113:THR:O	3:CX:191:ILE:HD11	2.20	0.41
4:DX:61:PRO:HG2	4:EX:102:ASN:HD22	1.86	0.41
4:D1:101:ILE:HG13	4:E1:60:ILE:HD11	2.03	0.41
4:E1:97:LEU:HG	4:E1:111:VAL:HG23	2.03	0.41
2:B2:227:GLN:HA	2:B2:230:ILE:HG12	2.02	0.41
2:B2:329:THR:HB	2:B3:298:LEU:HD22	2.02	0.41
4:D2:114:VAL:O	4:D2:117:LYS:HG2	2.20	0.41
1:A3:551:ILE:O	1:A3:555:MET:HG2	2.20	0.41
4:E3:64:LEU:CB	4:E3:101:ILE:HG13	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F3:101:ILE:O	4:F3:101:ILE:HG13	2.20	0.41
3:C5:294:ALA:O	3:C5:301:VAL:HG22	2.20	0.41
2:B6:227:GLN:HA	2:B6:230:ILE:HG12	2.02	0.41
4:D6:108:GLN:N	4:D6:124:ASP:OD1	2.37	0.41
4:D6:126:ILE:HG13	4:D6:127:THR:N	2.35	0.41
4:E6:99:ILE:O	4:E6:105:LEU:HD12	2.20	0.41
4:F6:65:THR:HG22	4:F6:66:VAL:N	2.35	0.41
2:B8:77:LEU:HD22	2:B9:41:MET:SD	2.60	0.41
3:C8:181:ARG:NE	3:C8:183:GLU:OE2	2.40	0.41
3:C8:259:LEU:HD23	4:D8:73:MET:O	2.21	0.41
1:A9:549:LEU:CD1	2:BA:46:GLN:H	2.33	0.41
4:D9:101:ILE:HG13	4:E9:60:ILE:HD11	2.03	0.41
1:AA:549:LEU:CD1	2:BB:46:GLN:H	2.31	0.41
3:CA:101:ASN:HD21	3:CA:103:ASN:HD21	1.68	0.41
2:BB:300:GLN:O	2:BB:304:GLU:HG2	2.19	0.41
4:EB:60:ILE:C	4:FB:74:THR:HG22	2.41	0.41
4:FB:105:LEU:CD1	4:FB:126:ILE:HG13	2.50	0.41
2:BC:78:ARG:NH1	2:BC:91:SER:OG	2.47	0.41
3:CC:165:TYR:CD2	3:CC:177:VAL:HG11	2.55	0.41
2:BD:234:PHE:O	2:BD:238:ASN:HB2	2.20	0.41
3:CD:64:GLN:O	3:CD:67:MET:HG3	2.20	0.41
1:AE:549:LEU:CD1	2:BF:46:GLN:H	2.30	0.41
2:BE:203:ILE:HD12	2:BE:214:VAL:HG11	2.01	0.41
2:BF:26:PHE:HA	2:BF:29:LEU:HB2	2.03	0.41
3:CF:221:PHE:O	3:CF:225:GLU:HG2	2.21	0.41
3:CG:205:HIS:CE1	3:CG:212:THR:HB	2.55	0.41
4:DH:75:ILE:O	4:DH:78:LEU:HG	2.21	0.41
2:BI:65:GLN:O	2:BJ:48:SER:OG	2.23	0.41
3:CI:63:ARG:HA	3:CI:63:ARG:HD3	1.77	0.41
3:CI:156:ARG:HA	3:CI:159:LYS:HZ3	1.85	0.41
3:CI:288:LYS:HZ3	4:DI:118:TYR:H	1.68	0.41
4:EK:100:LEU:HD21	4:EK:103:GLY:HA2	2.01	0.41
4:FK:64:LEU:HA	4:FK:101:ILE:HA	2.03	0.41
2:BM:227:GLN:HA	2:BM:230:ILE:HG12	2.02	0.41
3:CN:205:HIS:CE1	3:CN:212:THR:HB	2.55	0.41
2:BO:151:GLU:CD	2:BO:154:ARG:HH12	2.23	0.41
3:CO:249:ASN:O	3:CO:253:GLN:HG3	2.20	0.41
4:DO:80:ARG:NH1	4:FP:52:GLN:HB2	2.36	0.41
4:FO:75:ILE:HA	4:FO:78:LEU:HG	2.01	0.41
2:BP:26:PHE:HA	2:BP:29:LEU:HB2	2.02	0.41
2:BP:143:ALA:HA	2:BQ:206:MET:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BP:189:LYS:HA	2:BP:189:LYS:HD3	1.88	0.41
2:BP:234:PHE:O	2:BP:238:ASN:HB2	2.21	0.41
3:CP:288:LYS:HZ3	4:DP:118:TYR:H	1.68	0.41
4:DP:114:VAL:O	4:DP:117:LYS:HG2	2.21	0.41
4:DQ:126:ILE:HG13	4:DQ:127:THR:N	2.35	0.41
4:FQ:66:VAL:HG12	4:FQ:99:ILE:HG13	2.02	0.41
2:BR:263:LEU:HD23	2:BR:263:LEU:HA	1.91	0.41
2:BS:136:HIS:HD2	2:BT:193:MET:HG3	1.84	0.41
2:BT:60:GLU:HG2	1:AU:522:ARG:HH12	1.85	0.41
2:BU:12:ILE:HD13	2:BU:55:VAL:HG21	2.01	0.41
3:CU:113:THR:O	3:CU:191:ILE:HD11	2.20	0.41
3:CU:296:VAL:O	3:CU:299:VAL:HG12	2.20	0.41
4:DU:114:VAL:O	4:DU:117:LYS:HG2	2.20	0.41
4:EU:99:ILE:HB	4:EU:107:ALA:HB3	2.02	0.41
3:CW:288:LYS:NZ	4:DW:116:ASP:O	2.42	0.41
2:BX:5:SER:O	2:BX:9:LYS:HG3	2.20	0.41
3:CY:165:TYR:CD2	3:CY:177:VAL:HG11	2.55	0.41
4:F1:104:TYR:CZ	3:CY:256:HIS:NE2	2.88	0.41
2:B2:26:PHE:HA	2:B2:29:LEU:HB2	2.02	0.41
1:A3:553:GLN:NE2	1:A3:557:ASN:OD1	2.54	0.41
3:C3:64:GLN:O	3:C3:67:MET:HG3	2.20	0.41
3:C3:113:THR:O	3:C3:191:ILE:HD11	2.20	0.41
3:C3:296:VAL:O	3:C3:299:VAL:HG12	2.20	0.41
3:C4:221:PHE:O	3:C4:225:GLU:HG2	2.20	0.41
3:C5:125:ILE:HD12	3:C5:211:LEU:HD13	2.02	0.41
2:B6:6:GLY:HA2	2:B6:9:LYS:HE2	2.02	0.41
4:E6:60:ILE:C	4:F6:74:THR:HG22	2.40	0.41
2:B7:66:PHE:C	2:B8:46:GLN:HE22	2.24	0.41
3:C7:165:TYR:CD2	3:C7:177:VAL:HG11	2.55	0.41
2:B8:149:PHE:O	2:B8:154:ARG:NH2	2.54	0.41
3:C8:205:HIS:CE1	3:C8:212:THR:HB	2.55	0.41
3:C8:255:GLN:NE2	4:D8:76:LYS:HG3	2.36	0.41
3:C9:125:ILE:HD12	3:C9:211:LEU:HD13	2.02	0.41
3:C9:205:HIS:CE1	3:C9:212:THR:HB	2.55	0.41
3:CA:255:GLN:HG2	4:DA:76:LYS:CG	2.47	0.41
3:CA:255:GLN:CG	4:DA:76:LYS:HG3	2.46	0.41
3:CA:294:ALA:HB3	3:CA:302:LEU:HG	2.01	0.41
3:CA:295:HIS:HB2	3:CA:299:VAL:O	2.20	0.41
4:DA:114:VAL:O	4:DA:117:LYS:HG2	2.21	0.41
2:BB:26:PHE:HA	2:BB:29:LEU:HB2	2.03	0.41
3:CC:221:PHE:O	3:CC:225:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:67:GLU:CD	4:FC:65:THR:HG21	2.40	0.41
2:BE:227:GLN:HA	2:BE:230:ILE:HG12	2.02	0.41
2:BE:235:LEU:HD23	2:BE:235:LEU:HA	1.82	0.41
3:CE:64:GLN:O	3:CE:67:MET:HG3	2.20	0.41
3:CE:258:GLU:CD	4:DE:73:MET:H	2.23	0.41
4:DF:78:LEU:HA	4:DF:81:LEU:HG	2.01	0.41
3:CG:222:SER:HA	3:CG:225:GLU:HG2	2.01	0.41
4:FG:117:LYS:HD3	4:FG:117:LYS:HA	1.86	0.41
2:BI:70:ASN:HA	2:BJ:15:MET:HE1	2.02	0.41
3:CI:249:ASN:OD1	3:CI:250:LEU:N	2.54	0.41
2:BJ:26:PHE:HA	2:BJ:29:LEU:HB2	2.02	0.41
2:BJ:235:LEU:HB3	2:BJ:236:PHE:H	1.67	0.41
3:CJ:101:ASN:HD21	3:CJ:103:ASN:HD21	1.67	0.41
3:CJ:221:PHE:O	3:CJ:225:GLU:HG2	2.20	0.41
4:EJ:97:LEU:HG	4:EJ:111:VAL:HG23	2.01	0.41
3:CK:113:THR:O	3:CK:191:ILE:HD11	2.20	0.41
3:CK:294:ALA:O	3:CK:301:VAL:HG22	2.20	0.41
2:BL:26:PHE:HA	2:BL:29:LEU:HB2	2.02	0.41
3:CL:113:THR:O	3:CL:191:ILE:HD11	2.20	0.41
4:DL:80:ARG:NH1	4:FM:52:GLN:HB2	2.35	0.41
2:BM:309:LEU:HD23	2:BM:309:LEU:HA	1.88	0.41
4:FM:54:ILE:HG13	4:FM:55:ASP:H	1.84	0.41
4:FM:108:GLN:HB2	4:FM:124:ASP:OD1	2.20	0.41
4:DN:126:ILE:HG13	4:DN:127:THR:N	2.35	0.41
4:DN:133:ARG:HH12	4:DN:137:ARG:HD3	1.86	0.41
4:EN:60:ILE:C	4:FN:74:THR:HG22	2.40	0.41
3:CO:221:PHE:O	3:CO:225:GLU:HG2	2.20	0.41
4:EO:64:LEU:CB	4:EO:101:ILE:HG13	2.50	0.41
2:BP:215:ILE:HA	2:BP:218:VAL:HG12	2.02	0.41
3:CP:64:GLN:O	3:CP:67:MET:HG3	2.20	0.41
4:DP:126:ILE:HG13	4:DP:127:THR:N	2.34	0.41
4:EP:74:THR:OG1	4:EP:75:ILE:N	2.54	0.41
4:FP:63:LYS:HE2	4:FP:63:LYS:HB2	1.93	0.41
3:CQ:296:VAL:O	3:CQ:299:VAL:HG12	2.21	0.41
3:CS:113:THR:O	3:CS:191:ILE:HD11	2.19	0.41
3:CT:221:PHE:O	3:CT:225:GLU:HG2	2.20	0.41
4:ET:77:GLU:O	4:ET:81:LEU:HG	2.19	0.41
2:BU:151:GLU:CD	2:BU:154:ARG:HH12	2.23	0.41
2:BV:179:LEU:HD13	2:BV:182:LEU:HD21	2.02	0.41
3:CW:221:PHE:O	3:CW:225:GLU:HG2	2.20	0.41
4:DW:126:ILE:HG13	4:DW:127:THR:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BX:26:PHE:HA	2:BX:29:LEU:HB2	2.02	0.41
3:CX:79:ILE:HG13	3:CX:206:VAL:HG22	2.02	0.41
2:B1:26:PHE:HA	2:B1:29:LEU:HB2	2.03	0.41
3:C1:205:HIS:CE1	3:C1:212:THR:HB	2.55	0.41
4:D1:126:ILE:HG13	4:D1:127:THR:N	2.35	0.41
4:F1:75:ILE:HA	4:F1:78:LEU:HG	2.01	0.41
2:B3:227:GLN:HA	2:B3:230:ILE:HG12	2.02	0.41
3:C3:294:ALA:O	3:C3:301:VAL:HG22	2.20	0.41
2:B4:149:PHE:O	2:B4:154:ARG:NH2	2.53	0.41
3:C4:64:GLN:O	3:C4:67:MET:HG3	2.20	0.41
3:C4:296:VAL:O	3:C4:299:VAL:HG12	2.20	0.41
3:C5:154:ILE:HG12	3:C5:157:MET:HE2	2.02	0.41
2:B6:193:MET:O	2:B6:193:MET:SD	2.78	0.41
2:B6:234:PHE:O	2:B6:238:ASN:HB2	2.20	0.41
3:C6:246:TRP:HE1	4:E7:83:GLN:HG3	1.86	0.41
4:F6:75:ILE:HA	4:F6:78:LEU:HG	2.01	0.41
2:B7:26:PHE:HA	2:B7:29:LEU:HB2	2.03	0.41
3:C7:221:PHE:O	3:C7:225:GLU:HG2	2.20	0.41
4:D7:80:ARG:NH1	4:F8:52:GLN:HB2	2.35	0.41
4:F7:117:LYS:HD3	4:F7:117:LYS:HA	1.86	0.41
3:C8:288:LYS:HA	3:C8:288:LYS:HD3	1.86	0.41
2:B9:26:PHE:HA	2:B9:29:LEU:HB2	2.03	0.41
2:BA:26:PHE:HA	2:BA:29:LEU:HB2	2.03	0.41
3:CA:125:ILE:HD12	3:CA:211:LEU:HD13	2.02	0.41
3:CA:165:TYR:CD2	3:CA:177:VAL:HG11	2.56	0.41
3:CA:255:GLN:HG2	4:DA:76:LYS:HE3	2.02	0.41
4:DB:133:ARG:HH12	4:DB:137:ARG:HD3	1.86	0.41
2:BC:70:ASN:HA	2:BD:15:MET:HE1	2.02	0.41
4:EC:60:ILE:C	4:FC:74:THR:HG22	2.41	0.41
2:BE:329:THR:HB	2:BF:298:LEU:HD22	2.02	0.41
3:CF:205:HIS:CE1	3:CF:212:THR:HB	2.55	0.41
3:CF:258:GLU:CD	4:DF:73:MET:H	2.24	0.41
2:BG:77:LEU:HD22	2:BH:41:MET:SD	2.61	0.41
3:CG:320:LEU:HD23	4:FH:57:ILE:HD13	2.02	0.41
4:DG:101:ILE:HG13	4:EG:60:ILE:HD11	2.03	0.41
4:DG:102:ASN:CG	4:FG:72:ARG:HH22	2.24	0.41
3:CH:64:GLN:O	3:CH:67:MET:HG3	2.20	0.41
2:BI:111:ASN:OD1	2:BI:137:LEU:HB3	2.20	0.41
4:EI:99:ILE:O	4:EI:105:LEU:HD12	2.19	0.41
3:CJ:260:GLU:O	3:CJ:296:VAL:HG12	2.20	0.41
4:FJ:53:ASP:OD2	4:FJ:56:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EL:99:ILE:O	4:EL:105:LEU:HD12	2.19	0.41
4:FL:64:LEU:HB3	4:FL:101:ILE:HG22	2.02	0.41
2:BM:5:SER:O	2:BM:9:LYS:HG3	2.20	0.41
4:FM:75:ILE:HA	4:FM:78:LEU:HG	2.01	0.41
2:BO:147:ALA:HA	2:BP:210:GLN:HE21	1.86	0.41
2:BO:149:PHE:O	2:BO:154:ARG:NH2	2.54	0.41
4:DP:75:ILE:H	4:DP:75:ILE:HD12	1.85	0.41
2:BQ:26:PHE:HA	2:BQ:29:LEU:HB2	2.03	0.41
3:CQ:165:TYR:CD2	3:CQ:177:VAL:HG11	2.56	0.41
3:CQ:271:ARG:O	3:CQ:275:ILE:HG12	2.20	0.41
4:FQ:105:LEU:HD23	4:FQ:131:ARG:HG3	2.01	0.41
2:BR:26:PHE:HA	2:BR:29:LEU:HB2	2.03	0.41
3:CS:165:TYR:CD2	3:CS:177:VAL:HG11	2.56	0.41
3:CS:244:GLN:O	3:CS:247:ARG:HG3	2.21	0.41
2:BT:12:ILE:HD13	2:BT:55:VAL:HG21	2.01	0.41
2:BT:26:PHE:HA	2:BT:29:LEU:HB2	2.03	0.41
2:BT:309:LEU:HD23	2:BT:309:LEU:HA	1.88	0.41
3:CT:255:GLN:HG2	4:DT:76:LYS:CG	2.41	0.41
4:DT:114:VAL:O	4:DT:117:LYS:HG2	2.21	0.41
4:ET:63:LYS:O	4:ET:102:ASN:N	2.51	0.41
4:FT:53:ASP:OD2	4:FT:56:LEU:HB3	2.20	0.41
1:AU:549:LEU:CD1	2:BV:46:GLN:H	2.33	0.41
2:BU:235:LEU:HD23	2:BU:235:LEU:HA	1.81	0.41
3:CU:165:TYR:CD2	3:CU:177:VAL:HG11	2.55	0.41
4:DU:101:ILE:HG13	4:EU:60:ILE:HD11	2.03	0.41
3:CV:247:ARG:HD2	3:CV:248:ASP:N	2.35	0.41
4:EV:76:LYS:CE	4:FV:58:MET:HB2	2.51	0.41
2:BW:234:PHE:O	2:BW:238:ASN:HB2	2.20	0.41
4:EW:105:LEU:O	4:EW:131:ARG:NH2	2.43	0.41
2:BX:235:LEU:HB3	2:BX:236:PHE:H	1.67	0.41
3:CY:221:PHE:O	3:CY:225:GLU:HG2	2.21	0.41
3:CY:288:LYS:HZ3	4:DY:118:TYR:H	1.67	0.41
2:B1:151:GLU:CD	2:B1:154:ARG:HH12	2.23	0.41
3:C1:296:VAL:O	3:C1:299:VAL:HG12	2.20	0.41
2:B2:129:ILE:HA	2:B2:132:THR:HG22	2.01	0.41
3:C2:288:LYS:HZ3	4:D2:118:TYR:H	1.68	0.41
2:B4:179:LEU:HD13	2:B4:182:LEU:HD21	2.03	0.41
3:C4:259:LEU:HD23	4:D4:73:MET:O	2.21	0.41
2:B5:5:SER:O	2:B5:9:LYS:HG3	2.20	0.41
2:B5:215:ILE:HA	2:B5:218:VAL:HG12	2.02	0.41
3:C5:64:GLN:O	3:C5:67:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F5:117:LYS:HD3	4:F5:117:LYS:HA	1.87	0.41
4:E6:128:PRO:HA	4:E6:131:ARG:HG3	2.01	0.41
3:C7:125:ILE:HD12	3:C7:211:LEU:HD13	2.02	0.41
3:C8:112:GLY:HA3	3:C8:223:MET:SD	2.61	0.41
3:C8:221:PHE:O	3:C8:225:GLU:HG2	2.20	0.41
4:D8:75:ILE:H	4:D8:75:ILE:HD12	1.85	0.41
4:F8:64:LEU:HB3	4:F8:101:ILE:HG22	2.01	0.41
4:E9:67:GLU:CD	4:F9:65:THR:HG21	2.41	0.41
2:BA:136:HIS:CE1	2:BA:167:VAL:HG11	2.56	0.41
2:BA:136:HIS:NE2	2:BB:193:MET:HG3	2.34	0.41
3:CA:113:THR:O	3:CA:191:ILE:HD11	2.20	0.41
3:CA:205:HIS:CE1	3:CA:212:THR:HB	2.55	0.41
2:BB:136:HIS:CE1	2:BB:167:VAL:HG11	2.56	0.41
4:DC:78:LEU:HA	4:DC:81:LEU:HG	2.01	0.41
4:EC:97:LEU:HG	4:EC:111:VAL:HG23	2.02	0.41
2:BE:234:PHE:O	2:BE:238:ASN:HB2	2.20	0.41
4:EE:99:ILE:O	4:EE:105:LEU:HD12	2.19	0.41
3:CF:125:ILE:HD12	3:CF:211:LEU:HD13	2.02	0.41
4:EF:76:LYS:NZ	4:FF:58:MET:HB2	2.35	0.41
3:CG:125:ILE:HD12	3:CG:211:LEU:HD13	2.02	0.41
3:CG:219:LEU:HD12	3:CG:223:MET:HG3	2.01	0.41
3:CG:288:LYS:HZ3	4:DG:118:TYR:H	1.69	0.41
2:BI:73:ALA:HB1	2:BJ:42:ALA:HA	2.02	0.41
3:CI:64:GLN:O	3:CI:67:MET:HG3	2.20	0.41
3:CI:101:ASN:HD21	3:CI:103:ASN:HD21	1.67	0.41
3:CI:165:TYR:CD2	3:CI:177:VAL:HG11	2.56	0.41
4:EI:60:ILE:C	4:FI:74:THR:HG22	2.41	0.41
2:BK:5:SER:O	2:BK:9:LYS:HG3	2.20	0.41
2:BK:78:ARG:NH1	2:BK:91:SER:OG	2.45	0.41
2:BK:147:ALA:HA	2:BL:210:GLN:HE21	1.86	0.41
2:BK:202:ILE:HD13	2:BK:202:ILE:HA	1.95	0.41
3:CL:165:TYR:HD2	3:CL:177:VAL:HG11	1.85	0.41
4:FL:101:ILE:O	4:FL:101:ILE:HG13	2.20	0.41
3:CM:250:LEU:HA	3:CM:253:GLN:HG2	2.01	0.41
4:EM:97:LEU:HG	4:EM:111:VAL:HG23	2.01	0.41
4:FM:117:LYS:HD3	4:FM:117:LYS:HA	1.86	0.41
3:CO:165:TYR:CD2	3:CO:177:VAL:HG11	2.55	0.41
4:EO:60:ILE:C	4:FO:74:THR:HG22	2.40	0.41
4:FO:117:LYS:HD3	4:FO:117:LYS:HA	1.86	0.41
2:BP:5:SER:O	2:BP:9:LYS:HG3	2.20	0.41
3:CP:205:HIS:CE1	3:CP:212:THR:HB	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EQ:99:ILE:HB	4:EQ:107:ALA:HB3	2.02	0.41
4:ER:72:ARG:NH2	4:ER:73:MET:O	2.48	0.41
4:ER:99:ILE:HB	4:ER:107:ALA:HB3	2.03	0.41
2:BS:70:ASN:HA	2:BT:15:MET:HE1	2.02	0.41
2:BS:227:GLN:HA	2:BS:230:ILE:HG12	2.02	0.41
2:BT:151:GLU:CD	2:BT:154:ARG:HH12	2.23	0.41
2:BU:134:LEU:HD11	2:BU:142:ALA:O	2.20	0.41
2:BU:234:PHE:O	2:BU:238:ASN:HB2	2.20	0.41
2:BU:329:THR:HB	2:BV:298:LEU:HD22	2.02	0.41
2:BV:26:PHE:HA	2:BV:29:LEU:HB2	2.03	0.41
2:BV:93:LEU:HD13	2:BV:93:LEU:HA	1.93	0.41
2:BW:263:LEU:HD23	2:BW:263:LEU:HA	1.91	0.41
2:BW:329:THR:HB	2:BX:298:LEU:HD22	2.02	0.41
2:BX:111:ASN:ND2	2:BX:138:LYS:H	2.19	0.41
2:BY:48:SER:HB3	2:BY:51:GLN:CG	2.51	0.41
2:B1:66:PHE:C	2:B2:46:GLN:HE22	2.24	0.41
2:B1:158:MET:SD	2:B1:159:LEU:N	2.93	0.41
4:E1:67:GLU:CD	4:F1:65:THR:HG21	2.41	0.41
4:E1:105:LEU:O	4:E1:131:ARG:NH2	2.44	0.41
4:E2:69:GLY:HA3	4:E2:89:LEU:CD2	2.46	0.41
1:A3:525:GLN:NE2	2:B3:49:ASN:HB2	2.35	0.41
2:B3:66:PHE:C	2:B4:46:GLN:HE22	2.24	0.41
2:B4:26:PHE:HA	2:B4:29:LEU:HB2	2.03	0.41
3:C4:250:LEU:HA	3:C4:253:GLN:HG2	2.03	0.41
2:B5:158:MET:CE	2:B6:218:VAL:HB	2.51	0.41
3:C6:199:VAL:HG12	3:C6:220:PRO:HA	2.02	0.41
1:A7:525:GLN:NE2	2:B7:49:ASN:HB2	2.36	0.41
3:C7:113:THR:O	3:C7:191:ILE:HD11	2.21	0.41
4:E7:67:GLU:CD	4:F7:65:THR:HG21	2.41	0.41
4:F7:53:ASP:OD2	4:F7:56:LEU:HB3	2.21	0.41
2:B8:136:HIS:NE2	2:B9:193:MET:HG3	2.35	0.41
4:E8:99:ILE:O	4:E8:105:LEU:HD12	2.21	0.41
4:E9:99:ILE:HB	4:E9:107:ALA:HB3	2.03	0.41
4:F9:124:ASP:OD1	4:F9:124:ASP:N	2.53	0.41
3:CA:64:GLN:O	3:CA:67:MET:HG3	2.20	0.41
3:CA:288:LYS:HZ3	4:DA:118:TYR:H	1.68	0.41
4:FA:53:ASP:OD2	4:FA:56:LEU:HB3	2.20	0.41
2:BB:228:LYS:HD2	2:BB:228:LYS:HA	1.83	0.41
4:EB:67:GLU:CD	4:FB:65:THR:HG21	2.41	0.41
2:BC:60:GLU:HG2	1:AD:522:ARG:HH12	1.85	0.41
2:BC:129:ILE:HA	2:BC:132:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:113:THR:O	3:CC:191:ILE:HD11	2.21	0.41
3:CC:249:ASN:ND2	4:FD:125:ILE:HD13	2.36	0.41
3:CD:279:LYS:HD2	3:CD:279:LYS:HA	1.85	0.41
3:CD:288:LYS:HA	3:CD:288:LYS:HD3	1.85	0.41
4:ED:64:LEU:HB3	4:ED:101:ILE:HG13	2.02	0.41
4:ED:99:ILE:O	4:ED:105:LEU:HD12	2.19	0.41
3:CF:288:LYS:HZ1	4:DF:117:LYS:HA	1.86	0.41
2:BG:5:SER:O	2:BG:9:LYS:HG3	2.20	0.41
4:EG:99:ILE:O	4:EG:105:LEU:HD12	2.20	0.41
3:CH:205:HIS:CE1	3:CH:212:THR:HB	2.55	0.41
4:EH:97:LEU:HG	4:EH:111:VAL:HG23	2.02	0.41
3:CI:237:GLU:HG3	3:CJ:111:ARG:HE	1.85	0.41
3:CJ:244:GLN:O	3:CJ:247:ARG:HG3	2.20	0.41
4:EJ:60:ILE:C	4:FJ:74:THR:HG22	2.41	0.41
4:FJ:66:VAL:HG12	4:FJ:99:ILE:HG13	2.02	0.41
3:CK:205:HIS:CE1	3:CK:212:THR:HB	2.55	0.41
4:EK:97:LEU:HG	4:EK:111:VAL:HG23	2.02	0.41
4:EL:97:LEU:HG	4:EL:111:VAL:HG23	2.01	0.41
2:BM:111:ASN:ND2	2:BM:138:LYS:H	2.18	0.41
2:BN:234:PHE:O	2:BN:238:ASN:HB2	2.21	0.41
3:CN:125:ILE:HD12	3:CN:211:LEU:HD13	2.02	0.41
3:CN:296:VAL:O	3:CN:299:VAL:HG12	2.21	0.41
4:DN:80:ARG:NH1	4:FO:52:GLN:HB2	2.35	0.41
4:DO:126:ILE:HG13	4:DO:127:THR:N	2.35	0.41
2:BP:111:ASN:OD1	2:BP:137:LEU:HB3	2.20	0.41
3:CP:165:TYR:CD2	3:CP:177:VAL:HG11	2.56	0.41
2:BQ:234:PHE:O	2:BQ:238:ASN:HB2	2.21	0.41
4:EQ:77:GLU:OE1	4:EQ:77:GLU:N	2.48	0.41
3:CR:113:THR:O	3:CR:191:ILE:HD11	2.20	0.41
4:ER:57:ILE:HD12	4:ER:57:ILE:HA	1.90	0.41
4:FR:54:ILE:HG13	4:FR:55:ASP:H	1.82	0.41
1:AS:549:LEU:CD1	2:BT:46:GLN:H	2.34	0.41
3:CS:221:PHE:O	3:CS:225:GLU:HG2	2.20	0.41
3:CS:296:VAL:HG23	4:FT:61:PRO:HG2	2.03	0.41
2:BT:189:LYS:HA	2:BT:189:LYS:HD3	1.85	0.41
3:CT:288:LYS:HA	3:CT:288:LYS:HD3	1.85	0.41
4:DV:126:ILE:HG13	4:DV:127:THR:N	2.35	0.41
4:EX:117:LYS:HZ2	4:FX:92:LEU:HA	1.86	0.41
2:BY:149:PHE:O	2:BY:154:ARG:NH2	2.54	0.41
3:CY:296:VAL:O	3:CY:299:VAL:HG12	2.21	0.41
4:DY:104:TYR:CD2	4:EY:60:ILE:HD13	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:522:ARG:HH12	2:BY:60:GLU:HG2	1.86	0.41
2:B1:234:PHE:O	2:B1:238:ASN:HB2	2.20	0.41
3:C1:246:TRP:CH2	4:F2:122:ILE:HD12	2.56	0.41
3:C1:257:SER:HB3	4:F2:104:TYR:CD2	2.56	0.41
4:E1:69:GLY:HA3	4:E1:89:LEU:CD2	2.45	0.41
3:C2:125:ILE:HD12	3:C2:211:LEU:HD13	2.02	0.41
3:C2:156:ARG:HA	3:C2:159:LYS:HZ3	1.85	0.41
4:D2:90:ASP:OD1	4:D2:91:GLY:N	2.54	0.41
2:B3:5:SER:O	2:B3:9:LYS:HG3	2.20	0.41
2:B3:26:PHE:HA	2:B3:29:LEU:HB2	2.03	0.41
2:B3:235:LEU:HD23	2:B3:235:LEU:HA	1.82	0.41
3:C3:125:ILE:HD12	3:C3:211:LEU:HD13	2.02	0.41
3:C3:288:LYS:HZ3	4:D3:118:TYR:H	1.68	0.41
4:D3:114:VAL:O	4:D3:117:LYS:HG2	2.21	0.41
2:B4:235:LEU:HB3	2:B4:236:PHE:H	1.68	0.41
4:F4:53:ASP:OD2	4:F4:56:LEU:HB3	2.21	0.41
2:B5:235:LEU:HD23	2:B5:235:LEU:HA	1.81	0.41
3:C5:165:TYR:CD2	3:C5:177:VAL:HG11	2.55	0.41
3:C5:205:HIS:CE1	3:C5:212:THR:HB	2.55	0.41
4:D5:75:ILE:O	4:D5:78:LEU:HG	2.21	0.41
4:D5:80:ARG:NH1	4:F6:52:GLN:HB2	2.36	0.41
4:F5:63:LYS:HE2	4:F5:63:LYS:HB2	1.93	0.41
3:C6:258:GLU:CD	4:D6:73:MET:H	2.24	0.41
4:F7:101:ILE:O	4:F7:101:ILE:HG13	2.21	0.41
2:B8:26:PHE:HA	2:B8:29:LEU:HB2	2.03	0.41
2:B8:215:ILE:HA	2:B8:218:VAL:HG12	2.03	0.41
4:D8:126:ILE:HG13	4:D8:127:THR:N	2.35	0.41
4:F8:75:ILE:HD12	4:F8:75:ILE:H	1.86	0.41
3:C9:63:ARG:HD3	3:C9:63:ARG:HA	1.78	0.41
3:C9:64:GLN:O	3:C9:67:MET:HG3	2.20	0.41
3:C9:288:LYS:HA	3:C9:288:LYS:HD3	1.85	0.41
4:E9:105:LEU:O	4:E9:131:ARG:NH2	2.45	0.41
4:DA:80:ARG:NH1	4:FB:52:GLN:HB2	2.36	0.41
4:EA:64:LEU:HB2	4:EA:101:ILE:HG13	2.03	0.41
4:FA:124:ASP:N	4:FA:124:ASP:OD1	2.53	0.41
2:BB:203:ILE:HA	2:BB:206:MET:CG	2.51	0.41
3:CB:112:GLY:HA3	3:CB:223:MET:SD	2.60	0.41
2:BC:151:GLU:CD	2:BC:154:ARG:HH12	2.23	0.41
2:BC:228:LYS:HD2	2:BC:228:LYS:HA	1.83	0.41
3:CE:156:ARG:HA	3:CE:159:LYS:HZ3	1.86	0.41
3:CE:165:TYR:HD2	3:CE:177:VAL:HG11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CE:221:PHE:O	3:CE:225:GLU:HG2	2.20	0.41
3:CG:270:LEU:HD23	4:DG:64:LEU:HG	2.03	0.41
4:DG:108:GLN:N	4:DG:124:ASP:OD1	2.37	0.41
4:EG:57:ILE:HD12	4:EG:57:ILE:HA	1.90	0.41
1:AH:549:LEU:CD1	2:BI:46:GLN:H	2.33	0.41
4:DH:126:ILE:HG13	4:DH:127:THR:N	2.35	0.41
4:FH:53:ASP:OD2	4:FH:56:LEU:HB3	2.21	0.41
4:FH:117:LYS:HD3	4:FH:117:LYS:HA	1.86	0.41
3:CI:125:ILE:HD12	3:CI:211:LEU:HD13	2.02	0.41
4:DI:101:ILE:HG13	4:EI:60:ILE:HD11	2.03	0.41
4:EI:57:ILE:HD12	4:EI:57:ILE:HA	1.90	0.41
4:FI:105:LEU:HD23	4:FI:131:ARG:HG3	2.03	0.41
3:CJ:253:GLN:OE1	4:FK:125:ILE:HB	2.20	0.41
3:CJ:270:LEU:HD23	4:DJ:64:LEU:HG	2.02	0.41
3:CJ:294:ALA:HB3	3:CJ:302:LEU:HG	2.03	0.41
4:DJ:75:ILE:H	4:DJ:75:ILE:HD12	1.85	0.41
4:EJ:61:PRO:N	4:FJ:74:THR:HG22	2.36	0.41
4:FJ:54:ILE:HG13	4:FJ:55:ASP:H	1.84	0.41
4:DK:78:LEU:HA	4:DK:81:LEU:HG	2.03	0.41
4:EK:99:ILE:O	4:EK:105:LEU:HD12	2.20	0.41
4:EK:106:ILE:HD13	4:EK:106:ILE:HA	1.98	0.41
2:BL:101:ARG:HH12	2:BM:42:ALA:HB3	1.86	0.41
2:BL:215:ILE:HA	2:BL:218:VAL:HG12	2.02	0.41
2:BL:263:LEU:HD12	2:BL:286:LEU:HD21	2.03	0.41
1:AM:525:GLN:NE2	2:BM:49:ASN:HB2	2.36	0.41
2:BM:129:ILE:HA	2:BM:132:THR:HG22	2.03	0.41
3:CM:244:GLN:O	3:CM:247:ARG:HG3	2.21	0.41
3:CM:249:ASN:ND2	4:FN:125:ILE:HD13	2.35	0.41
4:FM:101:ILE:O	4:FM:101:ILE:HG13	2.21	0.41
3:CN:288:LYS:HZ3	4:DN:118:TYR:H	1.68	0.41
4:DN:90:ASP:OD1	4:DN:91:GLY:N	2.54	0.41
1:AO:553:GLN:NE2	1:AO:557:ASN:OD1	2.53	0.41
2:BO:129:ILE:HD12	2:BO:132:THR:CG2	2.51	0.41
3:CO:113:THR:O	3:CO:191:ILE:HD11	2.21	0.41
3:CO:205:HIS:CE1	3:CO:212:THR:HB	2.55	0.41
4:FO:101:ILE:O	4:FO:101:ILE:HG13	2.21	0.41
2:BP:228:LYS:HA	2:BP:228:LYS:HD2	1.83	0.41
3:CP:221:PHE:O	3:CP:225:GLU:HG2	2.20	0.41
4:DP:108:GLN:N	4:DP:124:ASP:OD1	2.38	0.41
4:DQ:80:ARG:NH1	4:FR:52:GLN:HB2	2.36	0.41
2:BR:70:ASN:HA	2:BS:15:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CR:222:SER:HA	3:CR:225:GLU:HG2	2.02	0.41
4:DR:80:ARG:NH1	4:FS:52:GLN:HB2	2.36	0.41
4:DR:105:LEU:C	4:DR:131:ARG:HH12	2.22	0.41
4:DR:114:VAL:O	4:DR:117:LYS:HG2	2.21	0.41
4:ER:64:LEU:HB2	4:ER:101:ILE:HG13	2.03	0.41
3:CS:249:ASN:CG	4:FT:125:ILE:HD13	2.42	0.41
4:DS:126:ILE:HG13	4:DS:127:THR:N	2.35	0.41
4:ES:97:LEU:HG	4:ES:111:VAL:HG23	2.02	0.41
2:BT:128:GLN:HA	2:BT:160:ARG:HD3	2.03	0.41
2:BT:215:ILE:HA	2:BT:218:VAL:HG12	2.02	0.41
2:BT:235:LEU:HB3	2:BT:236:PHE:H	1.68	0.41
3:CT:125:ILE:HD12	3:CT:211:LEU:HD13	2.02	0.41
3:CT:165:TYR:CD2	3:CT:177:VAL:HG11	2.55	0.41
2:BU:129:ILE:HD12	2:BU:132:THR:CG2	2.51	0.41
2:BU:179:LEU:HD13	2:BU:182:LEU:HD21	2.03	0.41
3:CU:63:ARG:HH22	3:CV:188:PHE:HB3	1.86	0.41
3:CU:122:LEU:CD1	3:CU:215:PHE:HB3	2.50	0.41
3:CU:253:GLN:HE22	4:FV:126:ILE:H	1.69	0.41
4:DU:75:ILE:H	4:DU:75:ILE:HD12	1.86	0.41
4:EU:76:LYS:NZ	4:FU:58:MET:HB2	2.36	0.41
1:AV:525:GLN:NE2	2:BV:49:ASN:HB2	2.36	0.41
1:AV:549:LEU:CD1	2:BW:46:GLN:H	2.34	0.41
4:FV:72:ARG:HA	4:FV:72:ARG:HH11	1.86	0.41
2:BW:202:ILE:HD13	2:BW:202:ILE:HA	1.94	0.41
4:DW:75:ILE:HD12	4:DW:75:ILE:H	1.86	0.41
4:FW:66:VAL:HG12	4:FW:99:ILE:HG13	2.03	0.41
2:BX:38:SER:HA	2:BX:41:MET:HE1	2.01	0.41
2:BX:70:ASN:HA	2:BY:15:MET:HE1	2.02	0.41
2:BX:228:LYS:HD2	2:BX:228:LYS:HA	1.83	0.41
3:CX:249:ASN:CG	4:FY:125:ILE:HD13	2.41	0.41
4:DX:101:ILE:HG13	4:EX:60:ILE:HD11	2.03	0.41
4:DX:133:ARG:HH12	4:DX:137:ARG:HD3	1.86	0.41
4:EX:60:ILE:C	4:FX:74:THR:HG22	2.41	0.41
1:AY:547:VAL:HG13	2:BY:13:LEU:HD23	2.03	0.41
2:BY:227:GLN:HA	2:BY:230:ILE:HG12	2.02	0.41
4:DY:126:ILE:HG13	4:DY:127:THR:N	2.35	0.41
3:C1:113:THR:O	3:C1:191:ILE:HD11	2.21	0.41
3:C2:199:VAL:HG12	3:C2:220:PRO:HA	2.02	0.41
3:C3:63:ARG:HD3	3:C3:63:ARG:HA	1.78	0.41
2:B4:72:ASN:HB3	2:B4:75:GLU:HG3	2.03	0.41
2:B4:263:LEU:HD12	2:B4:286:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C4:107:LEU:HG	3:C4:177:VAL:HG12	2.02	0.41
3:C4:122:LEU:CD1	3:C4:215:PHE:HB3	2.50	0.41
2:B5:26:PHE:HA	2:B5:29:LEU:HB2	2.03	0.41
2:B5:189:LYS:HA	2:B5:189:LYS:HD3	1.87	0.41
3:C5:288:LYS:HZ3	4:D5:118:TYR:H	1.69	0.41
2:B6:26:PHE:HA	2:B6:29:LEU:HB2	2.03	0.41
2:B6:136:HIS:ND1	2:B6:175:LEU:HD11	2.36	0.41
3:C6:125:ILE:HD12	3:C6:211:LEU:HD13	2.02	0.41
2:B7:48:SER:HB3	2:B7:51:GLN:CG	2.51	0.41
2:B7:215:ILE:HA	2:B7:218:VAL:HG12	2.03	0.41
3:C7:247:ARG:HD2	3:C7:248:ASP:N	2.36	0.41
4:D7:126:ILE:HG13	4:D7:127:THR:N	2.35	0.41
4:E7:64:LEU:CB	4:E7:101:ILE:HG13	2.50	0.41
4:E7:64:LEU:HB2	4:E7:101:ILE:HG13	2.03	0.41
4:E7:124:ASP:OD1	4:E7:125:ILE:N	2.54	0.41
4:F8:99:ILE:O	4:F8:106:ILE:HB	2.21	0.41
4:D9:75:ILE:HD12	4:D9:75:ILE:H	1.86	0.41
2:BA:235:LEU:HB3	2:BA:236:PHE:H	1.68	0.41
3:CB:165:TYR:CD2	3:CB:177:VAL:HG11	2.56	0.41
4:FB:53:ASP:OD2	4:FB:56:LEU:HB3	2.21	0.41
1:AC:549:LEU:CD1	2:BD:46:GLN:H	2.34	0.41
2:BC:149:PHE:O	2:BC:154:ARG:NH2	2.54	0.41
2:BC:263:LEU:HD23	2:BC:263:LEU:HA	1.92	0.41
3:CC:202:THR:OG1	3:CC:217:ILE:HB	2.21	0.41
4:DC:80:ARG:NH1	4:FD:52:GLN:HB2	2.36	0.41
4:ED:57:ILE:HD12	4:ED:57:ILE:HA	1.90	0.41
4:ED:67:GLU:CD	4:FD:65:THR:HG21	2.41	0.41
4:ED:106:ILE:HD13	4:ED:106:ILE:HA	1.97	0.41
3:CE:156:ARG:HA	3:CE:159:LYS:NZ	2.36	0.41
2:BF:135:VAL:HB	2:BG:193:MET:HE3	2.02	0.41
3:CF:253:GLN:NE2	4:FG:104:TYR:CE2	2.89	0.41
4:DH:90:ASP:OD1	4:DH:91:GLY:N	2.54	0.41
2:BI:228:LYS:HA	2:BI:228:LYS:HD2	1.83	0.41
3:CI:113:THR:O	3:CI:191:ILE:HD11	2.21	0.41
4:FI:63:LYS:HE2	4:FI:63:LYS:HB2	1.94	0.41
2:BJ:158:MET:HE3	2:BK:218:VAL:HB	2.03	0.41
4:DK:90:ASP:OD1	4:DK:91:GLY:N	2.54	0.41
2:BM:26:PHE:HA	2:BM:29:LEU:HB2	2.03	0.41
2:BM:78:ARG:NH1	2:BM:91:SER:OG	2.46	0.41
4:EM:61:PRO:HB2	4:FM:72:ARG:NH2	2.32	0.41
1:AN:532:MET:O	1:AN:535:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BN:60:GLU:OE2	1:AO:522:ARG:NH2	2.49	0.41
2:BN:263:LEU:HD23	2:BN:263:LEU:HA	1.91	0.41
2:BN:329:THR:HB	2:BO:298:LEU:HD22	2.03	0.41
4:EO:76:LYS:HZ1	4:FO:58:MET:HB2	1.85	0.41
2:BP:129:ILE:HD12	2:BP:132:THR:CG2	2.51	0.41
3:CP:125:ILE:HD12	3:CP:211:LEU:HD13	2.02	0.41
3:CQ:258:GLU:CD	4:DQ:73:MET:H	2.24	0.41
2:BR:234:PHE:O	2:BR:238:ASN:HB2	2.20	0.41
3:CR:279:LYS:HA	3:CR:279:LYS:HD2	1.85	0.41
4:FR:105:LEU:HG	4:FR:126:ILE:HG13	2.02	0.41
2:BS:40:ALA:O	2:BS:44:VAL:HB	2.21	0.41
4:DS:90:ASP:OD1	4:DS:91:GLY:N	2.54	0.41
2:BT:72:ASN:HB3	2:BT:75:GLU:HG3	2.04	0.41
2:BT:78:ARG:NH1	2:BT:91:SER:OG	2.45	0.41
3:CT:244:GLN:HA	3:CT:247:ARG:HG3	2.03	0.41
4:DT:101:ILE:HG13	4:ET:60:ILE:HD11	2.03	0.41
4:ET:57:ILE:HD12	4:ET:57:ILE:HA	1.90	0.41
3:CV:202:THR:OG1	3:CV:217:ILE:HB	2.21	0.41
3:CW:258:GLU:CD	4:DW:73:MET:H	2.24	0.41
4:FX:108:GLN:HB2	4:FX:124:ASP:OD1	2.21	0.41
1:AY:537:ARG:CA	2:BY:21:ARG:HH22	2.24	0.41
3:CY:288:LYS:HD3	3:CY:288:LYS:HA	1.85	0.41
2:B1:42:ALA:HB3	2:BY:101:ARG:NH1	2.36	0.40
3:C1:165:TYR:CD2	3:C1:177:VAL:HG11	2.56	0.40
4:D1:80:ARG:NH1	4:F2:52:GLN:HB2	2.35	0.40
4:E1:60:ILE:C	4:F1:74:THR:HG22	2.42	0.40
4:F1:105:LEU:HG	4:F1:126:ILE:HG13	2.02	0.40
4:F2:75:ILE:HA	4:F2:78:LEU:HG	2.02	0.40
4:F3:75:ILE:HD12	4:F3:75:ILE:H	1.86	0.40
3:C4:113:THR:O	3:C4:191:ILE:HD11	2.20	0.40
3:C4:165:TYR:HD2	3:C4:177:VAL:HG11	1.85	0.40
4:D4:105:LEU:C	4:D4:131:ARG:HH12	2.21	0.40
2:B7:136:HIS:NE2	2:B8:193:MET:HG3	2.36	0.40
3:C8:58:ASN:HD22	3:C8:84:ILE:HD11	1.86	0.40
4:F9:117:LYS:HD3	4:F9:117:LYS:HA	1.87	0.40
4:EB:75:ILE:O	4:EB:79:LEU:HD23	2.21	0.40
4:EB:76:LYS:HZ1	4:FB:58:MET:HB2	1.85	0.40
4:DC:101:ILE:HG13	4:EC:60:ILE:HD11	2.03	0.40
3:CD:248:ASP:O	3:CD:252:ARG:HG2	2.21	0.40
3:CE:205:HIS:CE1	3:CE:212:THR:HB	2.55	0.40
4:EF:106:ILE:HD13	4:EF:106:ILE:HA	1.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:64:GLU:OE1	1:AH:522:ARG:HD3	2.20	0.40
3:CG:202:THR:OG1	3:CG:217:ILE:HB	2.22	0.40
3:CG:237:GLU:HG3	3:CH:111:ARG:HE	1.86	0.40
3:CG:286:ILE:HG22	4:DG:119:GLY:HA2	2.03	0.40
3:CH:64:GLN:HG2	3:CH:164:GLY:HA2	2.04	0.40
3:CH:221:PHE:O	3:CH:225:GLU:HG2	2.21	0.40
4:FH:64:LEU:HB3	4:FH:101:ILE:HG22	2.02	0.40
2:BI:5:SER:O	2:BI:9:LYS:HG3	2.20	0.40
2:BI:309:LEU:HD23	2:BI:309:LEU:HA	1.89	0.40
4:EI:97:LEU:HG	4:EI:111:VAL:HG23	2.02	0.40
2:BJ:151:GLU:CD	2:BJ:154:ARG:HH12	2.24	0.40
3:CJ:113:THR:O	3:CJ:191:ILE:HD11	2.21	0.40
4:DJ:80:ARG:NH1	4:FK:52:GLN:HB2	2.35	0.40
4:EJ:99:ILE:O	4:EJ:105:LEU:HD12	2.20	0.40
3:CK:58:ASN:HD22	3:CK:84:ILE:HD11	1.86	0.40
3:CK:258:GLU:O	4:FL:102:ASN:HB3	2.21	0.40
4:DK:77:GLU:OE2	4:DK:81:LEU:HD21	2.21	0.40
4:DK:101:ILE:HG13	4:EK:60:ILE:HD11	2.03	0.40
2:BL:72:ASN:HB3	2:BL:75:GLU:HG3	2.02	0.40
3:CL:64:GLN:O	3:CL:67:MET:HG3	2.20	0.40
3:CL:107:LEU:HG	3:CL:177:VAL:HG12	2.02	0.40
3:CL:125:ILE:HD12	3:CL:211:LEU:HD13	2.02	0.40
2:BM:41:MET:O	2:BM:44:VAL:HG12	2.21	0.40
3:CM:64:GLN:O	3:CM:67:MET:HG3	2.20	0.40
3:CM:125:ILE:HD12	3:CM:211:LEU:HD13	2.02	0.40
4:EM:106:ILE:HD13	4:EM:106:ILE:HA	1.97	0.40
3:CN:258:GLU:CD	4:DN:73:MET:H	2.24	0.40
3:CP:279:LYS:HA	3:CP:279:LYS:HD2	1.85	0.40
4:DP:90:ASP:OD1	4:DP:91:GLY:N	2.54	0.40
4:FP:65:THR:HG22	4:FP:66:VAL:N	2.36	0.40
4:FP:74:THR:OG1	4:FP:77:GLU:OE1	2.31	0.40
3:CQ:288:LYS:HZ3	4:DQ:118:TYR:N	2.18	0.40
4:DQ:90:ASP:OD1	4:DQ:91:GLY:N	2.54	0.40
2:BT:111:ASN:OD1	2:BT:137:LEU:HB3	2.21	0.40
2:BT:329:THR:HB	2:BU:298:LEU:HD22	2.03	0.40
4:DT:75:ILE:H	4:DT:75:ILE:HD12	1.86	0.40
4:DU:80:ARG:NH1	4:FV:52:GLN:HB2	2.36	0.40
3:CV:58:ASN:HD22	3:CV:84:ILE:HD11	1.86	0.40
4:DV:114:VAL:O	4:DV:117:LYS:HG2	2.21	0.40
4:FV:117:LYS:HA	4:FV:117:LYS:HD3	1.87	0.40
3:CW:288:LYS:HD3	3:CW:288:LYS:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EW:126:ILE:CG1	4:EW:127:THR:H	2.34	0.40
3:CX:122:LEU:CD1	3:CX:215:PHE:HB3	2.50	0.40
4:DX:114:VAL:O	4:DX:117:LYS:HG2	2.21	0.40
4:DX:126:ILE:HG13	4:DX:127:THR:N	2.35	0.40
2:BY:48:SER:HB3	2:BY:51:GLN:HB2	2.03	0.40
2:B1:228:LYS:HA	2:B1:228:LYS:HD2	1.83	0.40
4:F1:101:ILE:O	4:F1:101:ILE:HG13	2.21	0.40
4:F1:117:LYS:HD3	4:F1:117:LYS:HA	1.86	0.40
3:C2:113:THR:O	3:C2:191:ILE:HD11	2.21	0.40
4:D2:101:ILE:HG13	4:E2:60:ILE:HD11	2.04	0.40
4:E2:105:LEU:O	4:E2:131:ARG:NH2	2.44	0.40
4:D3:80:ARG:NH1	4:F4:52:GLN:HB2	2.36	0.40
4:E3:64:LEU:HB2	4:E3:101:ILE:HG13	2.04	0.40
1:A4:536:ILE:O	1:A4:539:MET:HG3	2.21	0.40
4:D4:101:ILE:HG13	4:E4:60:ILE:HD11	2.04	0.40
2:B5:263:LEU:HD23	2:B5:263:LEU:HA	1.91	0.40
4:F5:124:ASP:N	4:F5:124:ASP:OD1	2.54	0.40
4:D6:80:ARG:NH1	4:F7:52:GLN:HB2	2.36	0.40
3:C7:205:HIS:CE1	3:C7:212:THR:HB	2.55	0.40
4:E8:74:THR:OG1	4:E8:75:ILE:N	2.54	0.40
4:E9:72:ARG:HH22	4:F9:61:PRO:HB2	1.86	0.40
3:CA:58:ASN:HD22	3:CA:84:ILE:HD11	1.86	0.40
4:DB:101:ILE:HG13	4:EB:60:ILE:HD11	2.03	0.40
4:DC:90:ASP:OD1	4:DC:91:GLY:N	2.54	0.40
2:BD:78:ARG:NH1	2:BD:91:SER:OG	2.46	0.40
3:CE:63:ARG:HH22	3:CF:188:PHE:HB3	1.86	0.40
2:BF:215:ILE:HA	2:BF:218:VAL:HG12	2.02	0.40
4:DF:90:ASP:OD1	4:DF:91:GLY:N	2.55	0.40
4:EF:76:LYS:HZ1	4:FF:58:MET:HB2	1.87	0.40
3:CG:268:ILE:HG23	3:CG:286:ILE:HD13	2.03	0.40
4:EH:64:LEU:HB3	4:EH:101:ILE:HG13	2.02	0.40
2:BI:133:ILE:O	2:BI:137:LEU:HG	2.21	0.40
2:BI:158:MET:SD	2:BI:158:MET:C	2.99	0.40
2:BI:263:LEU:HD23	2:BI:263:LEU:HA	1.91	0.40
3:CI:63:ARG:HH22	3:CJ:188:PHE:HB3	1.86	0.40
1:AJ:536:ILE:O	1:AJ:539:MET:HG3	2.20	0.40
4:DJ:64:LEU:HD13	4:DJ:101:ILE:CG2	2.51	0.40
4:FJ:65:THR:HG22	4:FJ:66:VAL:N	2.36	0.40
3:CK:202:THR:OG1	3:CK:217:ILE:HB	2.22	0.40
3:CN:58:ASN:HD22	3:CN:84:ILE:HD11	1.87	0.40
3:CN:202:THR:OG1	3:CN:217:ILE:HB	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EN:97:LEU:HG	4:EN:111:VAL:HG23	2.03	0.40
2:BO:70:ASN:HA	2:BP:15:MET:HE1	2.02	0.40
2:BO:234:PHE:O	2:BO:238:ASN:HB2	2.21	0.40
3:CO:249:ASN:CG	4:FP:125:ILE:HG21	2.42	0.40
4:EO:97:LEU:HG	4:EO:111:VAL:HG23	2.02	0.40
4:EO:126:ILE:CG1	4:EO:127:THR:H	2.34	0.40
4:FO:53:ASP:OD2	4:FO:56:LEU:HB3	2.21	0.40
2:BP:136:HIS:CE1	2:BP:175:LEU:HD21	2.56	0.40
2:BP:227:GLN:HA	2:BP:230:ILE:HG12	2.02	0.40
3:CP:63:ARG:HA	3:CP:63:ARG:HD3	1.78	0.40
3:CP:253:GLN:NE2	4:FQ:126:ILE:H	2.20	0.40
2:BQ:149:PHE:O	2:BQ:154:ARG:NH2	2.54	0.40
4:DQ:75:ILE:O	4:DQ:78:LEU:HG	2.21	0.40
2:BR:77:LEU:HB2	2:BS:41:MET:SD	2.62	0.40
2:BR:215:ILE:HA	2:BR:218:VAL:HG12	2.02	0.40
4:DR:126:ILE:HG13	4:DR:127:THR:N	2.35	0.40
4:ET:124:ASP:OD1	4:ET:125:ILE:N	2.54	0.40
2:BV:147:ALA:HA	2:BW:210:GLN:HE21	1.86	0.40
4:DV:90:ASP:OD1	4:DV:91:GLY:N	2.55	0.40
4:FV:53:ASP:OD2	4:FV:56:LEU:HB3	2.20	0.40
4:FV:101:ILE:O	4:FV:101:ILE:HG13	2.21	0.40
1:AW:528:GLY:HA2	1:AW:531:VAL:HG22	2.03	0.40
3:CW:112:GLY:HA3	3:CW:223:MET:SD	2.62	0.40
3:CW:125:ILE:HD12	3:CW:211:LEU:HD13	2.02	0.40
4:DW:80:ARG:NH1	4:FX:52:GLN:HB2	2.36	0.40
4:EX:124:ASP:OD1	4:EX:125:ILE:N	2.54	0.40
3:CY:205:HIS:CE1	3:CY:212:THR:HB	2.55	0.40
2:B1:329:THR:HB	2:B2:298:LEU:HD22	2.03	0.40
3:C1:221:PHE:O	3:C1:225:GLU:HG2	2.21	0.40
1:A2:528:GLY:HA2	1:A2:531:VAL:HG22	2.03	0.40
3:C2:63:ARG:HH22	3:C3:188:PHE:HB3	1.86	0.40
4:F2:53:ASP:OD2	4:F2:56:LEU:HB3	2.21	0.40
2:B3:202:ILE:HD13	2:B3:202:ILE:HA	1.95	0.40
4:D3:90:ASP:OD1	4:D3:91:GLY:N	2.54	0.40
2:B4:128:GLN:HA	2:B4:160:ARG:HD3	2.03	0.40
2:B4:215:ILE:HA	2:B4:218:VAL:HG12	2.02	0.40
3:C4:125:ILE:HD12	3:C4:211:LEU:HD13	2.02	0.40
4:F4:101:ILE:O	4:F4:101:ILE:HG13	2.21	0.40
1:A5:549:LEU:CD1	2:B6:46:GLN:H	2.34	0.40
2:B5:72:ASN:HB3	2:B5:75:GLU:HG3	2.03	0.40
2:B7:77:LEU:HD22	2:B8:41:MET:SD	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C7:58:ASN:HD22	3:C7:84:ILE:HD11	1.86	0.40
2:B8:145:ILE:HG22	2:B8:149:PHE:CE2	2.57	0.40
2:B8:158:MET:HE3	2:B9:214:VAL:O	2.21	0.40
2:B9:227:GLN:HA	2:B9:230:ILE:HG12	2.03	0.40
2:B9:329:THR:HB	2:BA:298:LEU:HD22	2.03	0.40
3:C9:64:GLN:HG2	3:C9:164:GLY:HA2	2.04	0.40
4:E9:60:ILE:C	4:F9:74:THR:HG22	2.42	0.40
4:E9:61:PRO:HB2	4:F9:72:ARG:NH2	2.27	0.40
4:F9:105:LEU:CD1	4:F9:126:ILE:HG13	2.51	0.40
3:CA:181:ARG:NE	3:CA:183:GLU:OE2	2.38	0.40
3:CA:288:LYS:NZ	4:DA:116:ASP:O	2.44	0.40
4:EA:105:LEU:O	4:EA:131:ARG:NH2	2.43	0.40
2:BB:235:LEU:HD23	2:BB:235:LEU:HA	1.81	0.40
2:BB:329:THR:HB	2:BC:298:LEU:HD22	2.04	0.40
4:FB:75:ILE:HD12	4:FB:75:ILE:H	1.87	0.40
3:CE:58:ASN:HD22	3:CE:84:ILE:HD11	1.87	0.40
4:DE:90:ASP:OD1	4:DE:91:GLY:N	2.54	0.40
1:AF:537:ARG:CA	2:BF:21:ARG:HH22	2.23	0.40
4:DF:75:ILE:HD12	4:DF:75:ILE:H	1.86	0.40
2:BG:149:PHE:O	2:BG:154:ARG:NH2	2.54	0.40
3:CG:271:ARG:O	3:CG:275:ILE:HG12	2.22	0.40
4:DG:75:ILE:O	4:DG:78:LEU:HG	2.21	0.40
2:BH:234:PHE:O	2:BH:238:ASN:HB2	2.20	0.40
3:CH:279:LYS:HD2	3:CH:279:LYS:HA	1.85	0.40
3:CI:64:GLN:HG2	3:CI:164:GLY:HA2	2.03	0.40
3:CI:205:HIS:CE1	3:CI:212:THR:HB	2.55	0.40
4:DI:90:ASP:OD1	4:DI:91:GLY:N	2.55	0.40
2:BJ:263:LEU:HD12	2:BJ:286:LEU:HD21	2.04	0.40
3:CK:101:ASN:HD21	3:CK:103:ASN:HD21	1.68	0.40
4:DK:64:LEU:HD13	4:DK:101:ILE:HG23	2.03	0.40
4:EK:60:ILE:C	4:FK:74:THR:HG22	2.42	0.40
2:BL:329:THR:HB	2:BM:298:LEU:HD22	2.03	0.40
3:CL:64:GLN:HG2	3:CL:164:GLY:HA2	2.03	0.40
2:BM:215:ILE:HA	2:BM:218:VAL:HG12	2.03	0.40
4:FM:105:LEU:HD23	4:FM:131:ARG:HG3	2.04	0.40
2:BN:111:ASN:OD1	2:BN:137:LEU:HB3	2.22	0.40
4:DN:75:ILE:H	4:DN:75:ILE:HD12	1.86	0.40
4:EO:124:ASP:OD1	4:EO:125:ILE:N	2.55	0.40
1:AP:549:LEU:CD1	2:BQ:46:GLN:H	2.34	0.40
4:DP:80:ARG:NH1	4:FQ:52:GLN:HB2	2.36	0.40
4:FP:101:ILE:O	4:FP:101:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FP:108:GLN:HB2	4:FP:124:ASP:OD1	2.21	0.40
3:CQ:237:GLU:HG3	3:CR:111:ARG:HE	1.85	0.40
4:DQ:75:ILE:H	4:DQ:75:ILE:HD12	1.86	0.40
4:FQ:75:ILE:HD12	4:FQ:75:ILE:H	1.86	0.40
3:CR:253:GLN:HE22	4:FS:125:ILE:HB	1.86	0.40
2:BS:72:ASN:HB3	2:BS:75:GLU:HG3	2.03	0.40
3:CS:125:ILE:HD12	3:CS:211:LEU:HD13	2.02	0.40
1:AU:528:GLY:HA2	1:AU:531:VAL:HG22	2.03	0.40
3:CU:246:TRP:HE1	4:EV:83:GLN:HG2	1.87	0.40
2:BV:70:ASN:HA	2:BW:15:MET:HE1	2.02	0.40
3:CV:221:PHE:O	3:CV:225:GLU:HG2	2.20	0.40
2:BX:329:THR:HB	2:BY:298:LEU:HD22	2.04	0.40
3:CX:58:ASN:HD22	3:CX:84:ILE:HD11	1.86	0.40
4:FX:75:ILE:HA	4:FX:78:LEU:HG	2.02	0.40
2:BY:323:ILE:O	2:BY:325:SER:N	2.53	0.40
4:DY:90:ASP:OD1	4:DY:91:GLY:N	2.55	0.40
3:C1:58:ASN:HD22	3:C1:84:ILE:HD11	1.87	0.40
2:B2:129:ILE:HD12	2:B2:132:THR:CG2	2.52	0.40
3:C3:58:ASN:HD22	3:C3:84:ILE:HD11	1.87	0.40
4:D3:101:ILE:HG13	4:E3:60:ILE:HD11	2.04	0.40
4:E3:124:ASP:OD1	4:E3:125:ILE:N	2.55	0.40
1:A4:528:GLY:HA2	1:A4:531:VAL:HG22	2.03	0.40
2:B4:101:ARG:NH2	2:B5:42:ALA:HB3	2.37	0.40
2:B4:127:PRO:HA	2:B4:130:ILE:HD12	2.03	0.40
3:C5:242:GLU:HG3	4:E6:82:THR:CG2	2.51	0.40
4:D5:90:ASP:OD1	4:D5:91:GLY:N	2.55	0.40
4:D6:90:ASP:OD1	4:D6:91:GLY:N	2.54	0.40
4:E6:76:LYS:HD3	4:E6:76:LYS:HA	1.85	0.40
4:D7:101:ILE:HG13	4:E7:60:ILE:HD11	2.04	0.40
2:B8:158:MET:SD	2:B8:159:LEU:N	2.94	0.40
2:B8:235:LEU:HD23	2:B8:235:LEU:HA	1.82	0.40
2:B8:263:LEU:HD12	2:B8:286:LEU:HD21	2.04	0.40
3:C8:286:ILE:HG22	4:D8:119:GLY:HA2	2.04	0.40
4:D9:77:GLU:OE2	4:D9:81:LEU:HD21	2.22	0.40
4:D9:80:ARG:NH1	4:FA:52:GLN:HB2	2.36	0.40
4:D9:90:ASP:OD1	4:D9:91:GLY:N	2.54	0.40
2:BA:72:ASN:HB3	2:BA:75:GLU:HG3	2.04	0.40
3:CA:64:GLN:HG2	3:CA:164:GLY:HA2	2.03	0.40
4:DA:75:ILE:HD12	4:DA:75:ILE:H	1.86	0.40
3:CB:258:GLU:O	4:FC:102:ASN:HB3	2.21	0.40
4:DB:90:ASP:OD1	4:DB:91:GLY:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:58:ASN:HD22	3:CC:84:ILE:HD11	1.87	0.40
4:EC:99:ILE:O	4:EC:105:LEU:HD12	2.20	0.40
4:EC:126:ILE:CG1	4:EC:127:THR:H	2.35	0.40
2:BD:70:ASN:HA	2:BE:15:MET:HE1	2.04	0.40
2:BD:129:ILE:HA	2:BD:132:THR:HG22	2.03	0.40
2:BD:138:LYS:HD3	2:BD:139:ARG:H	1.86	0.40
3:CD:63:ARG:HA	3:CD:63:ARG:HD3	1.78	0.40
3:CD:202:THR:OG1	3:CD:217:ILE:HB	2.22	0.40
4:ED:60:ILE:C	4:FD:74:THR:HG22	2.42	0.40
2:BE:149:PHE:O	2:BE:154:ARG:NH2	2.54	0.40
3:CE:64:GLN:HG2	3:CE:164:GLY:HA2	2.04	0.40
3:CF:112:GLY:HA3	3:CF:223:MET:SD	2.62	0.40
3:CG:181:ARG:NE	3:CG:183:GLU:OE2	2.40	0.40
2:BJ:5:SER:O	2:BJ:9:LYS:HG3	2.20	0.40
2:BJ:189:LYS:HA	2:BJ:189:LYS:HD3	1.88	0.40
3:CJ:125:ILE:HD12	3:CJ:211:LEU:HD13	2.03	0.40
2:BM:70:ASN:HA	2:BN:15:MET:HE1	2.02	0.40
4:FM:69:GLY:C	4:FM:70:ARG:HD3	2.42	0.40
4:DO:73:MET:SD	4:DO:78:LEU:HB3	2.60	0.40
4:DO:75:ILE:H	4:DO:75:ILE:HD12	1.86	0.40
4:EO:64:LEU:HB2	4:EO:101:ILE:HG13	2.04	0.40
4:EO:99:ILE:HB	4:EO:107:ALA:HB3	2.03	0.40
3:CP:58:ASN:HD22	3:CP:84:ILE:HD11	1.87	0.40
4:EP:67:GLU:CD	4:FP:65:THR:HG21	2.42	0.40
3:CR:122:LEU:CD1	3:CR:215:PHE:HB3	2.50	0.40
3:CR:202:THR:OG1	3:CR:217:ILE:HB	2.22	0.40
4:ER:63:LYS:O	4:ER:102:ASN:N	2.54	0.40
3:CS:58:ASN:HD22	3:CS:84:ILE:HD11	1.87	0.40
3:CS:122:LEU:CD1	3:CS:215:PHE:HB3	2.49	0.40
2:BT:204:ASN:N	2:BT:233:MET:HE3	2.36	0.40
3:CT:113:THR:O	3:CT:191:ILE:HD11	2.21	0.40
4:ET:64:LEU:HB2	4:ET:101:ILE:HG13	2.04	0.40
2:BU:72:ASN:HB3	2:BU:75:GLU:HG3	2.03	0.40
3:CU:125:ILE:HD12	3:CU:211:LEU:HD13	2.02	0.40
3:CU:202:THR:OG1	3:CU:217:ILE:HB	2.22	0.40
2:BW:127:PRO:HA	2:BW:130:ILE:HD12	2.03	0.40
2:BW:215:ILE:HA	2:BW:218:VAL:HG12	2.02	0.40
4:DW:55:ASP:O	4:DW:58:MET:HG2	2.22	0.40
4:DW:75:ILE:O	4:DW:78:LEU:HG	2.22	0.40
4:DX:90:ASP:OD1	4:DX:91:GLY:N	2.55	0.40
3:CY:202:THR:OG1	3:CY:217:ILE:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CY:271:ARG:O	3:CY:275:ILE:HG12	2.20	0.40
1:A1:558:ASP:OD1	2:B1:5:SER:OG	2.33	0.40
2:B1:235:LEU:HD23	2:B1:235:LEU:HA	1.82	0.40
2:B3:78:ARG:NH1	2:B3:91:SER:OG	2.45	0.40
1:A4:532:MET:O	1:A4:535:ARG:HG3	2.21	0.40
2:B4:12:ILE:CG1	2:B4:47:ILE:HG12	2.52	0.40
2:B4:78:ARG:HH12	2:B4:91:SER:HG	1.67	0.40
2:B4:93:LEU:HD13	2:B4:93:LEU:HA	1.95	0.40
2:B4:114:GLU:HA	2:B4:115:PRO:HD3	1.99	0.40
4:D4:75:ILE:HD12	4:D4:75:ILE:H	1.87	0.40
3:C5:58:ASN:HD22	3:C5:84:ILE:HD11	1.87	0.40
2:B6:129:ILE:HA	2:B6:132:THR:HG22	2.03	0.40
2:B6:263:LEU:HD12	2:B6:286:LEU:HD21	2.04	0.40
4:E7:99:ILE:HB	4:E7:107:ALA:HB3	2.03	0.40
4:F7:65:THR:HG22	4:F7:66:VAL:N	2.36	0.40
3:C8:202:THR:OG1	3:C8:217:ILE:HB	2.22	0.40
3:C8:256:HIS:CE1	4:F9:104:TYR:CZ	3.07	0.40
4:D8:77:GLU:OE2	4:D8:81:LEU:HD21	2.22	0.40
4:E8:99:ILE:HB	4:E8:107:ALA:HB3	2.03	0.40
4:E8:124:ASP:OD1	4:E8:125:ILE:N	2.55	0.40
4:F8:65:THR:HG22	4:F8:66:VAL:N	2.36	0.40
2:B9:229:ILE:O	2:B9:233:MET:HG2	2.20	0.40
2:B9:263:LEU:HD12	2:B9:286:LEU:HD21	2.04	0.40
3:C9:202:THR:OG1	3:C9:217:ILE:HB	2.22	0.40
2:BA:136:HIS:ND1	2:BA:175:LEU:HD11	2.37	0.40
3:CA:63:ARG:HH22	3:CB:188:PHE:HB3	1.86	0.40
4:FA:105:LEU:HG	4:FA:126:ILE:HG13	2.03	0.40
3:CB:205:HIS:CE1	3:CB:212:THR:HB	2.56	0.40
4:EB:106:ILE:HD13	4:EB:106:ILE:HA	1.98	0.40
4:FC:65:THR:HG22	4:FC:66:VAL:N	2.37	0.40
3:CD:249:ASN:ND2	4:FE:125:ILE:HD13	2.37	0.40
4:ED:99:ILE:HB	4:ED:107:ALA:HB3	2.03	0.40
2:BE:263:LEU:HD12	2:BE:286:LEU:HD21	2.04	0.40
4:FE:65:THR:HG22	4:FE:66:VAL:N	2.36	0.40
2:BF:263:LEU:HD12	2:BF:286:LEU:HD21	2.04	0.40
2:BF:329:THR:HB	2:BG:298:LEU:HD22	2.03	0.40
4:EF:126:ILE:CG1	4:EF:127:THR:H	2.34	0.40
3:CG:58:ASN:HD22	3:CG:84:ILE:HD11	1.86	0.40
2:BH:129:ILE:HD12	2:BH:132:THR:CG2	2.52	0.40
2:BH:263:LEU:HD12	2:BH:286:LEU:HD21	2.04	0.40
2:BI:263:LEU:HD12	2:BI:286:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CI:249:ASN:CG	4:FJ:125:ILE:HG21	2.42	0.40
3:CJ:202:THR:OG1	3:CJ:217:ILE:HB	2.22	0.40
4:DJ:102:ASN:CG	4:FJ:72:ARG:HH22	2.25	0.40
2:BN:263:LEU:HD12	2:BN:286:LEU:HD21	2.04	0.40
3:CN:198:ILE:HG23	3:CN:221:PHE:HB3	2.04	0.40
3:CN:244:GLN:O	3:CN:247:ARG:HG3	2.21	0.40
4:EN:124:ASP:OD1	4:EN:125:ILE:N	2.55	0.40
4:FN:65:THR:HG22	4:FN:66:VAL:N	2.37	0.40
2:BO:60:GLU:HG2	1:AP:522:ARG:HH12	1.85	0.40
2:BO:228:LYS:HD2	2:BO:228:LYS:HA	1.83	0.40
3:CO:202:THR:OG1	3:CO:217:ILE:HB	2.22	0.40
3:CQ:125:ILE:HD12	3:CQ:211:LEU:HD13	2.02	0.40
2:BS:158:MET:HE1	2:BT:214:VAL:O	2.22	0.40
2:BS:329:THR:HB	2:BT:298:LEU:HD22	2.03	0.40
3:CS:271:ARG:O	3:CS:275:ILE:HG12	2.20	0.40
3:CT:205:HIS:CE1	3:CT:212:THR:HB	2.55	0.40
3:CT:294:ALA:O	3:CT:301:VAL:HG22	2.22	0.40
4:FT:101:ILE:HG12	4:FT:106:ILE:HD11	2.04	0.40
3:CU:237:GLU:HG3	3:CV:111:ARG:HE	1.86	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	42/560 (8%)	42 (100%)	0	0	100	100
1	A2	42/560 (8%)	42 (100%)	0	0	100	100
1	A3	42/560 (8%)	42 (100%)	0	0	100	100
1	A4	42/560 (8%)	42 (100%)	0	0	100	100
1	A5	42/560 (8%)	42 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A6	42/560 (8%)	42 (100%)	0	0	100	100
1	A7	42/560 (8%)	42 (100%)	0	0	100	100
1	A8	42/560 (8%)	42 (100%)	0	0	100	100
1	A9	42/560 (8%)	42 (100%)	0	0	100	100
1	AA	42/560 (8%)	42 (100%)	0	0	100	100
1	AB	42/560 (8%)	42 (100%)	0	0	100	100
1	AC	42/560 (8%)	42 (100%)	0	0	100	100
1	AD	42/560 (8%)	42 (100%)	0	0	100	100
1	AE	42/560 (8%)	42 (100%)	0	0	100	100
1	AF	42/560 (8%)	42 (100%)	0	0	100	100
1	AG	42/560 (8%)	42 (100%)	0	0	100	100
1	AH	42/560 (8%)	42 (100%)	0	0	100	100
1	AI	42/560 (8%)	42 (100%)	0	0	100	100
1	AJ	42/560 (8%)	42 (100%)	0	0	100	100
1	AK	42/560 (8%)	42 (100%)	0	0	100	100
1	AL	42/560 (8%)	42 (100%)	0	0	100	100
1	AM	42/560 (8%)	42 (100%)	0	0	100	100
1	AN	42/560 (8%)	42 (100%)	0	0	100	100
1	AO	42/560 (8%)	42 (100%)	0	0	100	100
1	AP	42/560 (8%)	42 (100%)	0	0	100	100
1	AQ	42/560 (8%)	42 (100%)	0	0	100	100
1	AR	42/560 (8%)	42 (100%)	0	0	100	100
1	AS	42/560 (8%)	42 (100%)	0	0	100	100
1	AT	42/560 (8%)	42 (100%)	0	0	100	100
1	AU	42/560 (8%)	42 (100%)	0	0	100	100
1	AV	42/560 (8%)	42 (100%)	0	0	100	100
1	AW	42/560 (8%)	42 (100%)	0	0	100	100
1	AX	42/560 (8%)	42 (100%)	0	0	100	100
1	AY	42/560 (8%)	42 (100%)	0	0	100	100
2	B1	326/328 (99%)	313 (96%)	12 (4%)	1 (0%)	41	76
2	B2	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B3	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	B4	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	B5	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	B6	326/328 (99%)	312 (96%)	13 (4%)	1 (0%)	41	76
2	B7	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	B8	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	B9	326/328 (99%)	313 (96%)	12 (4%)	1 (0%)	41	76
2	BA	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BB	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BC	326/328 (99%)	313 (96%)	12 (4%)	1 (0%)	41	76
2	BD	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BE	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BF	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BG	326/328 (99%)	313 (96%)	12 (4%)	1 (0%)	41	76
2	BH	326/328 (99%)	316 (97%)	10 (3%)	0	100	100
2	BI	326/328 (99%)	316 (97%)	9 (3%)	1 (0%)	41	76
2	BJ	326/328 (99%)	313 (96%)	13 (4%)	0	100	100
2	BK	326/328 (99%)	313 (96%)	13 (4%)	0	100	100
2	BL	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	BM	326/328 (99%)	316 (97%)	9 (3%)	1 (0%)	41	76
2	BN	326/328 (99%)	313 (96%)	12 (4%)	1 (0%)	41	76
2	BO	326/328 (99%)	316 (97%)	10 (3%)	0	100	100
2	BP	326/328 (99%)	316 (97%)	10 (3%)	0	100	100
2	BQ	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	BR	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	BS	326/328 (99%)	315 (97%)	10 (3%)	1 (0%)	41	76
2	BT	326/328 (99%)	312 (96%)	13 (4%)	1 (0%)	41	76
2	BU	326/328 (99%)	316 (97%)	9 (3%)	1 (0%)	41	76
2	BV	326/328 (99%)	314 (96%)	11 (3%)	1 (0%)	41	76
2	BW	326/328 (99%)	314 (96%)	12 (4%)	0	100	100
2	BX	326/328 (99%)	311 (95%)	15 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BY	326/328 (99%)	313 (96%)	13 (4%)	0	100	100
3	C1	285/334 (85%)	274 (96%)	11 (4%)	0	100	100
3	C2	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	C3	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	C4	285/334 (85%)	274 (96%)	11 (4%)	0	100	100
3	C5	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	C6	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	C7	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	C8	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	C9	285/334 (85%)	274 (96%)	11 (4%)	0	100	100
3	CA	285/334 (85%)	274 (96%)	11 (4%)	0	100	100
3	CB	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CC	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CD	285/334 (85%)	274 (96%)	11 (4%)	0	100	100
3	CE	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CF	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CG	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CH	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CI	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CJ	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CK	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CL	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CM	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CN	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CO	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CP	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CQ	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CR	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CS	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CT	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CU	285/334 (85%)	274 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	CV	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
3	CW	285/334 (85%)	275 (96%)	10 (4%)	0	100	100
3	CX	285/334 (85%)	276 (97%)	9 (3%)	0	100	100
3	CY	285/334 (85%)	277 (97%)	8 (3%)	0	100	100
4	D1	81/137 (59%)	74 (91%)	7 (9%)	0	100	100
4	D2	81/137 (59%)	74 (91%)	7 (9%)	0	100	100
4	D3	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	D4	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	D5	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	D6	81/137 (59%)	74 (91%)	7 (9%)	0	100	100
4	D7	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	D8	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	D9	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DA	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DB	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DC	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DD	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DE	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DF	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DG	81/137 (59%)	74 (91%)	7 (9%)	0	100	100
4	DH	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DI	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DJ	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DK	81/137 (59%)	77 (95%)	4 (5%)	0	100	100
4	DL	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DM	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DN	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DO	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DP	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DQ	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DR	81/137 (59%)	77 (95%)	4 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	DS	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DT	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DU	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DV	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	DW	81/137 (59%)	76 (94%)	5 (6%)	0	100	100
4	DX	81/137 (59%)	74 (91%)	7 (9%)	0	100	100
4	DY	81/137 (59%)	75 (93%)	6 (7%)	0	100	100
4	E1	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	E2	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	E3	77/137 (56%)	70 (91%)	6 (8%)	1 (1%)	12	48
4	E4	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	E5	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	E6	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	E7	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	E8	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	E9	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EA	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EB	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EC	77/137 (56%)	69 (90%)	7 (9%)	1 (1%)	12	48
4	ED	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EE	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EF	77/137 (56%)	70 (91%)	6 (8%)	1 (1%)	12	48
4	EG	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EH	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EI	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EJ	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EK	77/137 (56%)	70 (91%)	6 (8%)	1 (1%)	12	48
4	EL	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EM	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EN	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EO	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	EP	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EQ	77/137 (56%)	69 (90%)	7 (9%)	1 (1%)	12	48
4	ER	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	ES	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	ET	77/137 (56%)	70 (91%)	6 (8%)	1 (1%)	12	48
4	EU	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EV	77/137 (56%)	70 (91%)	6 (8%)	1 (1%)	12	48
4	EW	77/137 (56%)	72 (94%)	4 (5%)	1 (1%)	12	48
4	EX	77/137 (56%)	71 (92%)	5 (6%)	1 (1%)	12	48
4	EY	77/137 (56%)	73 (95%)	3 (4%)	1 (1%)	12	48
4	F1	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	F2	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	F3	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	F4	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	F5	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	F6	83/137 (61%)	78 (94%)	5 (6%)	0	100	100
4	F7	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	F8	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	F9	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FA	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FB	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FC	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	FD	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FE	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FF	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FG	83/137 (61%)	74 (89%)	9 (11%)	0	100	100
4	FH	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	FI	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FJ	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	FK	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FL	83/137 (61%)	77 (93%)	6 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	FM	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FN	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FO	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FP	83/137 (61%)	77 (93%)	6 (7%)	0	100	100
4	FQ	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FR	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FS	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FT	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FU	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FV	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
4	FW	83/137 (61%)	75 (90%)	8 (10%)	0	100	100
4	FX	83/137 (61%)	78 (94%)	5 (6%)	0	100	100
4	FY	83/137 (61%)	76 (92%)	7 (8%)	0	100	100
All	All	30396/55522 (55%)	29041 (96%)	1295 (4%)	60 (0%)	50	81

All (60) 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
4	EF	126	ILE
4	EG	126	ILE
4	EH	126	ILE
4	EI	126	ILE
4	EJ	126	ILE

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Mol	Chain	Res	Type
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	B1	328	ASP
2	B2	328	ASP
2	B3	328	ASP
2	B4	328	ASP
2	B5	328	ASP
2	B6	328	ASP
2	B7	328	ASP
2	B8	328	ASP
2	B9	328	ASP
2	BA	328	ASP
2	BB	328	ASP
2	BC	328	ASP
2	BD	328	ASP
2	BE	328	ASP
2	BF	328	ASP
2	BG	328	ASP
2	BI	328	ASP
2	BL	328	ASP
2	BM	328	ASP
2	BN	328	ASP
2	BQ	328	ASP
2	BR	328	ASP
2	BS	328	ASP
2	BT	328	ASP
2	BU	328	ASP
2	BV	328	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	40/467 (9%)	40 (100%)	0	100	100
1	A2	40/467 (9%)	40 (100%)	0	100	100
1	A3	40/467 (9%)	40 (100%)	0	100	100
1	A4	40/467 (9%)	40 (100%)	0	100	100
1	A5	40/467 (9%)	40 (100%)	0	100	100
1	A6	40/467 (9%)	40 (100%)	0	100	100
1	A7	40/467 (9%)	40 (100%)	0	100	100
1	A8	40/467 (9%)	40 (100%)	0	100	100
1	A9	40/467 (9%)	40 (100%)	0	100	100
1	AA	40/467 (9%)	40 (100%)	0	100	100
1	AB	40/467 (9%)	40 (100%)	0	100	100
1	AC	40/467 (9%)	40 (100%)	0	100	100
1	AD	40/467 (9%)	40 (100%)	0	100	100
1	AE	40/467 (9%)	40 (100%)	0	100	100
1	AF	40/467 (9%)	40 (100%)	0	100	100
1	AG	40/467 (9%)	40 (100%)	0	100	100
1	AH	40/467 (9%)	40 (100%)	0	100	100
1	AI	40/467 (9%)	40 (100%)	0	100	100
1	AJ	40/467 (9%)	40 (100%)	0	100	100
1	AK	40/467 (9%)	40 (100%)	0	100	100
1	AL	40/467 (9%)	40 (100%)	0	100	100
1	AM	40/467 (9%)	40 (100%)	0	100	100
1	AN	40/467 (9%)	40 (100%)	0	100	100
1	AO	40/467 (9%)	40 (100%)	0	100	100
1	AP	40/467 (9%)	40 (100%)	0	100	100
1	AQ	40/467 (9%)	40 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AR	40/467 (9%)	40 (100%)	0	100	100
1	AS	40/467 (9%)	40 (100%)	0	100	100
1	AT	40/467 (9%)	40 (100%)	0	100	100
1	AU	40/467 (9%)	40 (100%)	0	100	100
1	AV	40/467 (9%)	40 (100%)	0	100	100
1	AW	40/467 (9%)	40 (100%)	0	100	100
1	AX	40/467 (9%)	40 (100%)	0	100	100
1	AY	40/467 (9%)	40 (100%)	0	100	100
2	B1	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B2	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B3	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B4	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B5	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B6	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B7	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B8	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	B9	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BA	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BB	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BC	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BD	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BE	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BF	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BG	281/281 (100%)	279 (99%)	2 (1%)	84	90
2	BH	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BI	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BJ	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BK	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BL	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BM	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BN	281/281 (100%)	280 (100%)	1 (0%)	91	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	BO	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BP	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BQ	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BR	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BS	281/281 (100%)	279 (99%)	2 (1%)	84	90
2	BT	281/281 (100%)	279 (99%)	2 (1%)	84	90
2	BU	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BV	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BW	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BX	281/281 (100%)	280 (100%)	1 (0%)	91	94
2	BY	281/281 (100%)	280 (100%)	1 (0%)	91	94
3	C1	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C2	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C3	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C4	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C5	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C6	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C7	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C8	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	C9	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CA	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CB	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CC	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CD	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CE	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CF	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CG	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CH	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CI	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CJ	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CK	260/301 (86%)	259 (100%)	1 (0%)	91	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	CL	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CM	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CN	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CO	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CP	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CQ	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CR	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CS	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CT	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CU	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CV	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CW	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CX	260/301 (86%)	259 (100%)	1 (0%)	91	94
3	CY	260/301 (86%)	259 (100%)	1 (0%)	91	94
4	D1	72/113 (64%)	72 (100%)	0	100	100
4	D2	72/113 (64%)	72 (100%)	0	100	100
4	D3	72/113 (64%)	72 (100%)	0	100	100
4	D4	72/113 (64%)	72 (100%)	0	100	100
4	D5	72/113 (64%)	72 (100%)	0	100	100
4	D6	72/113 (64%)	72 (100%)	0	100	100
4	D7	72/113 (64%)	72 (100%)	0	100	100
4	D8	72/113 (64%)	72 (100%)	0	100	100
4	D9	72/113 (64%)	72 (100%)	0	100	100
4	DA	72/113 (64%)	72 (100%)	0	100	100
4	DB	72/113 (64%)	72 (100%)	0	100	100
4	DC	72/113 (64%)	72 (100%)	0	100	100
4	DD	72/113 (64%)	72 (100%)	0	100	100
4	DE	72/113 (64%)	72 (100%)	0	100	100
4	DF	72/113 (64%)	72 (100%)	0	100	100
4	DG	72/113 (64%)	72 (100%)	0	100	100
4	DH	72/113 (64%)	72 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	DI	72/113 (64%)	72 (100%)	0	100	100
4	DJ	72/113 (64%)	72 (100%)	0	100	100
4	DK	72/113 (64%)	72 (100%)	0	100	100
4	DL	72/113 (64%)	72 (100%)	0	100	100
4	DM	72/113 (64%)	72 (100%)	0	100	100
4	DN	72/113 (64%)	72 (100%)	0	100	100
4	DO	72/113 (64%)	72 (100%)	0	100	100
4	DP	72/113 (64%)	72 (100%)	0	100	100
4	DQ	72/113 (64%)	72 (100%)	0	100	100
4	DR	72/113 (64%)	72 (100%)	0	100	100
4	DS	72/113 (64%)	72 (100%)	0	100	100
4	DT	72/113 (64%)	72 (100%)	0	100	100
4	DU	72/113 (64%)	72 (100%)	0	100	100
4	DV	72/113 (64%)	72 (100%)	0	100	100
4	DW	72/113 (64%)	72 (100%)	0	100	100
4	DX	72/113 (64%)	72 (100%)	0	100	100
4	DY	72/113 (64%)	72 (100%)	0	100	100
4	E1	68/113 (60%)	68 (100%)	0	100	100
4	E2	68/113 (60%)	68 (100%)	0	100	100
4	E3	68/113 (60%)	68 (100%)	0	100	100
4	E4	68/113 (60%)	68 (100%)	0	100	100
4	E5	68/113 (60%)	68 (100%)	0	100	100
4	E6	68/113 (60%)	68 (100%)	0	100	100
4	E7	68/113 (60%)	68 (100%)	0	100	100
4	E8	68/113 (60%)	68 (100%)	0	100	100
4	E9	68/113 (60%)	68 (100%)	0	100	100
4	EA	68/113 (60%)	68 (100%)	0	100	100
4	EB	68/113 (60%)	68 (100%)	0	100	100
4	EC	68/113 (60%)	68 (100%)	0	100	100
4	ED	68/113 (60%)	68 (100%)	0	100	100
4	EE	68/113 (60%)	68 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	EF	68/113 (60%)	68 (100%)	0	100	100
4	EG	68/113 (60%)	68 (100%)	0	100	100
4	EH	68/113 (60%)	68 (100%)	0	100	100
4	EI	68/113 (60%)	68 (100%)	0	100	100
4	EJ	68/113 (60%)	68 (100%)	0	100	100
4	EK	68/113 (60%)	68 (100%)	0	100	100
4	EL	68/113 (60%)	68 (100%)	0	100	100
4	EM	68/113 (60%)	68 (100%)	0	100	100
4	EN	68/113 (60%)	68 (100%)	0	100	100
4	EO	68/113 (60%)	68 (100%)	0	100	100
4	EP	68/113 (60%)	68 (100%)	0	100	100
4	EQ	68/113 (60%)	68 (100%)	0	100	100
4	ER	68/113 (60%)	68 (100%)	0	100	100
4	ES	68/113 (60%)	68 (100%)	0	100	100
4	ET	68/113 (60%)	68 (100%)	0	100	100
4	EU	68/113 (60%)	68 (100%)	0	100	100
4	EV	68/113 (60%)	68 (100%)	0	100	100
4	EW	68/113 (60%)	68 (100%)	0	100	100
4	EX	68/113 (60%)	68 (100%)	0	100	100
4	EY	68/113 (60%)	68 (100%)	0	100	100
4	F1	74/113 (66%)	74 (100%)	0	100	100
4	F2	74/113 (66%)	74 (100%)	0	100	100
4	F3	74/113 (66%)	74 (100%)	0	100	100
4	F4	74/113 (66%)	74 (100%)	0	100	100
4	F5	74/113 (66%)	74 (100%)	0	100	100
4	F6	74/113 (66%)	74 (100%)	0	100	100
4	F7	74/113 (66%)	74 (100%)	0	100	100
4	F8	74/113 (66%)	74 (100%)	0	100	100
4	F9	74/113 (66%)	74 (100%)	0	100	100
4	FA	74/113 (66%)	74 (100%)	0	100	100
4	FB	74/113 (66%)	74 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	FC	74/113 (66%)	74 (100%)	0	100	100
4	FD	74/113 (66%)	74 (100%)	0	100	100
4	FE	74/113 (66%)	74 (100%)	0	100	100
4	FF	74/113 (66%)	74 (100%)	0	100	100
4	FG	74/113 (66%)	74 (100%)	0	100	100
4	FH	74/113 (66%)	74 (100%)	0	100	100
4	FI	74/113 (66%)	74 (100%)	0	100	100
4	FJ	74/113 (66%)	74 (100%)	0	100	100
4	FK	74/113 (66%)	74 (100%)	0	100	100
4	FL	74/113 (66%)	74 (100%)	0	100	100
4	FM	74/113 (66%)	74 (100%)	0	100	100
4	FN	74/113 (66%)	74 (100%)	0	100	100
4	FO	74/113 (66%)	74 (100%)	0	100	100
4	FP	74/113 (66%)	74 (100%)	0	100	100
4	FQ	74/113 (66%)	74 (100%)	0	100	100
4	FR	74/113 (66%)	74 (100%)	0	100	100
4	FS	74/113 (66%)	74 (100%)	0	100	100
4	FT	74/113 (66%)	74 (100%)	0	100	100
4	FU	74/113 (66%)	74 (100%)	0	100	100
4	FV	74/113 (66%)	74 (100%)	0	100	100
4	FW	74/113 (66%)	74 (100%)	0	100	100
4	FX	74/113 (66%)	74 (100%)	0	100	100
4	FY	74/113 (66%)	74 (100%)	0	100	100
All	All	27030/47192 (57%)	26959 (100%)	71 (0%)	92	95

All (71) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B1	281	ARG
3	C1	44	ARG
2	B2	281	ARG
3	C2	44	ARG
2	B3	281	ARG
3	C3	44	ARG

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Mol	Chain	Res	Type
2	B4	281	ARG
3	C4	44	ARG
2	B5	281	ARG
3	C5	44	ARG
2	B6	281	ARG
3	C6	44	ARG
2	B7	281	ARG
3	C7	44	ARG
2	B8	281	ARG
3	C8	44	ARG
2	B9	281	ARG
3	C9	44	ARG
2	BA	281	ARG
3	CA	44	ARG
2	BB	281	ARG
3	CB	44	ARG
2	BC	281	ARG
3	CC	44	ARG
2	BD	281	ARG
3	CD	44	ARG
2	BE	281	ARG
3	CE	44	ARG
2	BF	281	ARG
3	CF	44	ARG
2	BG	101	ARG
2	BG	281	ARG
3	CG	44	ARG
2	BH	281	ARG
3	CH	44	ARG
2	BI	281	ARG
3	CI	44	ARG
2	BJ	281	ARG
3	CJ	44	ARG
2	BK	281	ARG
3	CK	44	ARG
2	BL	281	ARG
3	CL	44	ARG
2	BM	281	ARG
3	CM	44	ARG
2	BN	281	ARG
3	CN	44	ARG
2	BO	281	ARG

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Mol	Chain	Res	Type
3	CO	44	ARG
2	BP	281	ARG
3	CP	44	ARG
2	BQ	281	ARG
3	CQ	44	ARG
2	BR	281	ARG
3	CR	44	ARG
2	BS	190	ARG
2	BS	281	ARG
3	CS	44	ARG
2	BT	41	MET
2	BT	281	ARG
3	CT	44	ARG
2	BU	281	ARG
3	CU	44	ARG
2	BV	281	ARG
3	CV	44	ARG
2	BW	281	ARG
3	CW	44	ARG
2	BX	281	ARG
3	CX	44	ARG
2	BY	281	ARG
3	CY	44	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (408) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	517	GLN
2	B1	46	GLN
2	B1	128	GLN
3	C1	43	GLN
3	C1	52	GLN
3	C1	58	ASN
3	C1	64	GLN
3	C1	87	GLN
3	C1	103	ASN
3	C1	205	HIS
3	C1	264	ASN
1	A2	517	GLN
2	B2	46	GLN
2	B2	128	GLN
3	C2	43	GLN

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Mol	Chain	Res	Type
3	C2	52	GLN
3	C2	58	ASN
3	C2	64	GLN
3	C2	87	GLN
3	C2	103	ASN
3	C2	205	HIS
3	C2	264	ASN
1	A3	517	GLN
1	A3	553	GLN
1	A3	557	ASN
2	B3	128	GLN
2	B3	292	ASN
3	C3	43	GLN
3	C3	52	GLN
3	C3	58	ASN
3	C3	64	GLN
3	C3	87	GLN
3	C3	103	ASN
3	C3	205	HIS
3	C3	249	ASN
3	C3	264	ASN
1	A4	517	GLN
2	B4	46	GLN
2	B4	128	GLN
3	C4	43	GLN
3	C4	52	GLN
3	C4	58	ASN
3	C4	64	GLN
3	C4	87	GLN
3	C4	103	ASN
3	C4	205	HIS
3	C4	264	ASN
1	A5	517	GLN
2	B5	46	GLN
3	C5	43	GLN
3	C5	52	GLN
3	C5	58	ASN
3	C5	64	GLN
3	C5	87	GLN
3	C5	103	ASN
3	C5	205	HIS
3	C5	249	ASN

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Mol	Chain	Res	Type
3	C5	264	ASN
1	A6	517	GLN
2	B6	46	GLN
3	C6	43	GLN
3	C6	52	GLN
3	C6	58	ASN
3	C6	87	GLN
3	C6	103	ASN
3	C6	106	HIS
3	C6	205	HIS
3	C6	264	ASN
1	A7	517	GLN
1	A7	553	GLN
1	A7	557	ASN
2	B7	46	GLN
2	B7	128	GLN
3	C7	43	GLN
3	C7	52	GLN
3	C7	58	ASN
3	C7	64	GLN
3	C7	87	GLN
3	C7	103	ASN
3	C7	205	HIS
3	C7	264	ASN
1	A8	517	GLN
2	B8	46	GLN
3	C8	43	GLN
3	C8	52	GLN
3	C8	58	ASN
3	C8	64	GLN
3	C8	87	GLN
3	C8	103	ASN
3	C8	205	HIS
3	C8	256	HIS
3	C8	264	ASN
1	A9	517	GLN
2	B9	46	GLN
2	B9	128	GLN
3	C9	43	GLN
3	C9	52	GLN
3	C9	58	ASN
3	C9	64	GLN

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Mol	Chain	Res	Type
3	C9	87	GLN
3	C9	103	ASN
3	C9	205	HIS
3	C9	264	ASN
1	AA	517	GLN
1	AA	553	GLN
1	AA	557	ASN
2	BA	46	GLN
3	CA	43	GLN
3	CA	52	GLN
3	CA	58	ASN
3	CA	64	GLN
3	CA	87	GLN
3	CA	103	ASN
3	CA	205	HIS
3	CA	256	HIS
3	CA	264	ASN
1	AB	517	GLN
2	BB	46	GLN
3	CB	43	GLN
3	CB	52	GLN
3	CB	58	ASN
3	CB	64	GLN
3	CB	87	GLN
3	CB	103	ASN
3	CB	205	HIS
3	CB	249	ASN
3	CB	264	ASN
4	EB	83	GLN
1	AC	517	GLN
2	BC	46	GLN
3	CC	43	GLN
3	CC	52	GLN
3	CC	58	ASN
3	CC	64	GLN
3	CC	87	GLN
3	CC	103	ASN
3	CC	205	HIS
3	CC	264	ASN
1	AD	517	GLN
1	AD	553	GLN
1	AD	557	ASN

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Mol	Chain	Res	Type
2	BD	46	GLN
2	BD	128	GLN
3	CD	43	GLN
3	CD	52	GLN
3	CD	58	ASN
3	CD	64	GLN
3	CD	87	GLN
3	CD	103	ASN
3	CD	205	HIS
3	CD	253	GLN
3	CD	264	ASN
1	AE	517	GLN
2	BE	46	GLN
2	BE	128	GLN
3	CE	43	GLN
3	CE	52	GLN
3	CE	58	ASN
3	CE	64	GLN
3	CE	87	GLN
3	CE	103	ASN
3	CE	205	HIS
3	CE	264	ASN
1	AF	517	GLN
2	BF	128	GLN
3	CF	43	GLN
3	CF	52	GLN
3	CF	58	ASN
3	CF	64	GLN
3	CF	87	GLN
3	CF	103	ASN
3	CF	205	HIS
3	CF	249	ASN
3	CF	253	GLN
3	CF	264	ASN
1	AG	517	GLN
2	BG	46	GLN
3	CG	43	GLN
3	CG	52	GLN
3	CG	58	ASN
3	CG	64	GLN
3	CG	103	ASN
3	CG	205	HIS

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Mol	Chain	Res	Type
3	CG	264	ASN
1	AH	517	GLN
1	AH	553	GLN
1	AH	557	ASN
2	BH	46	GLN
2	BH	128	GLN
2	BH	292	ASN
3	CH	43	GLN
3	CH	52	GLN
3	CH	58	ASN
3	CH	64	GLN
3	CH	87	GLN
3	CH	103	ASN
3	CH	205	HIS
3	CH	249	ASN
3	CH	264	ASN
1	AI	517	GLN
2	BI	46	GLN
2	BI	128	GLN
3	CI	43	GLN
3	CI	52	GLN
3	CI	58	ASN
3	CI	64	GLN
3	CI	87	GLN
3	CI	103	ASN
3	CI	205	HIS
3	CI	253	GLN
3	CI	264	ASN
4	FI	52	GLN
1	AJ	517	GLN
2	BJ	46	GLN
2	BJ	128	GLN
3	CJ	43	GLN
3	CJ	52	GLN
3	CJ	58	ASN
3	CJ	64	GLN
3	CJ	87	GLN
3	CJ	103	ASN
3	CJ	205	HIS
3	CJ	249	ASN
3	CJ	264	ASN
1	AK	517	GLN

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Mol	Chain	Res	Type
1	AK	553	GLN
1	AK	557	ASN
2	BK	46	GLN
3	CK	43	GLN
3	CK	52	GLN
3	CK	58	ASN
3	CK	64	GLN
3	CK	87	GLN
3	CK	103	ASN
3	CK	205	HIS
3	CK	249	ASN
3	CK	264	ASN
1	AL	517	GLN
2	BL	46	GLN
3	CL	43	GLN
3	CL	52	GLN
3	CL	58	ASN
3	CL	64	GLN
3	CL	87	GLN
3	CL	101	ASN
3	CL	205	HIS
3	CL	264	ASN
1	AM	517	GLN
3	CM	43	GLN
3	CM	52	GLN
3	CM	58	ASN
3	CM	64	GLN
3	CM	87	GLN
3	CM	103	ASN
3	CM	205	HIS
3	CM	264	ASN
1	AN	517	GLN
2	BN	46	GLN
3	CN	43	GLN
3	CN	52	GLN
3	CN	58	ASN
3	CN	87	GLN
3	CN	103	ASN
3	CN	205	HIS
3	CN	249	ASN
3	CN	264	ASN
1	AO	517	GLN

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Mol	Chain	Res	Type
1	AO	553	GLN
1	AO	557	ASN
2	BO	46	GLN
2	BO	128	GLN
3	CO	43	GLN
3	CO	52	GLN
3	CO	58	ASN
3	CO	64	GLN
3	CO	87	GLN
3	CO	101	ASN
3	CO	205	HIS
3	CO	264	ASN
1	AP	517	GLN
2	BP	46	GLN
2	BP	292	ASN
3	CP	43	GLN
3	CP	52	GLN
3	CP	58	ASN
3	CP	64	GLN
3	CP	87	GLN
3	CP	103	ASN
3	CP	205	HIS
3	CP	249	ASN
3	CP	253	GLN
3	CP	264	ASN
1	AQ	517	GLN
2	BQ	46	GLN
3	CQ	43	GLN
3	CQ	52	GLN
3	CQ	58	ASN
3	CQ	64	GLN
3	CQ	87	GLN
3	CQ	103	ASN
3	CQ	205	HIS
3	CQ	249	ASN
3	CQ	264	ASN
4	EQ	83	GLN
1	AR	517	GLN
1	AR	553	GLN
1	AR	557	ASN
2	BR	46	GLN
3	CR	43	GLN

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Mol	Chain	Res	Type
3	CR	52	GLN
3	CR	58	ASN
3	CR	64	GLN
3	CR	87	GLN
3	CR	103	ASN
3	CR	205	HIS
3	CR	249	ASN
3	CR	253	GLN
3	CR	264	ASN
1	AS	517	GLN
1	AS	553	GLN
1	AS	557	ASN
2	BS	46	GLN
2	BS	128	GLN
3	CS	43	GLN
3	CS	52	GLN
3	CS	58	ASN
3	CS	64	GLN
3	CS	87	GLN
3	CS	101	ASN
3	CS	205	HIS
3	CS	253	GLN
3	CS	264	ASN
1	AT	517	GLN
1	AT	553	GLN
1	AT	557	ASN
2	BT	46	GLN
2	BT	128	GLN
3	CT	43	GLN
3	CT	52	GLN
3	CT	58	ASN
3	CT	64	GLN
3	CT	87	GLN
3	CT	103	ASN
3	CT	205	HIS
3	CT	249	ASN
3	CT	253	GLN
3	CT	264	ASN
1	AU	517	GLN
1	AU	553	GLN
1	AU	557	ASN
2	BU	46	GLN

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Mol	Chain	Res	Type
3	CU	43	GLN
3	CU	52	GLN
3	CU	58	ASN
3	CU	64	GLN
3	CU	87	GLN
3	CU	103	ASN
3	CU	205	HIS
3	CU	249	ASN
3	CU	253	GLN
3	CU	264	ASN
1	AV	517	GLN
2	BV	46	GLN
3	CV	43	GLN
3	CV	52	GLN
3	CV	58	ASN
3	CV	64	GLN
3	CV	87	GLN
3	CV	103	ASN
3	CV	205	HIS
3	CV	249	ASN
3	CV	264	ASN
1	AW	517	GLN
2	BW	46	GLN
3	CW	43	GLN
3	CW	52	GLN
3	CW	58	ASN
3	CW	64	GLN
3	CW	87	GLN
3	CW	103	ASN
3	CW	205	HIS
3	CW	249	ASN
3	CW	264	ASN
1	AX	517	GLN
2	BX	46	GLN
3	CX	43	GLN
3	CX	52	GLN
3	CX	58	ASN
3	CX	64	GLN
3	CX	87	GLN
3	CX	103	ASN
3	CX	205	HIS
3	CX	253	GLN

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Mol	Chain	Res	Type
3	CX	264	ASN
4	EX	102	ASN
1	AY	517	GLN
1	AY	553	GLN
1	AY	557	ASN
2	BY	46	GLN
2	BY	128	GLN
3	CY	43	GLN
3	CY	52	GLN
3	CY	58	ASN
3	CY	87	GLN
3	CY	103	ASN
3	CY	205	HIS
3	CY	249	ASN
3	CY	264	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Map visualisation

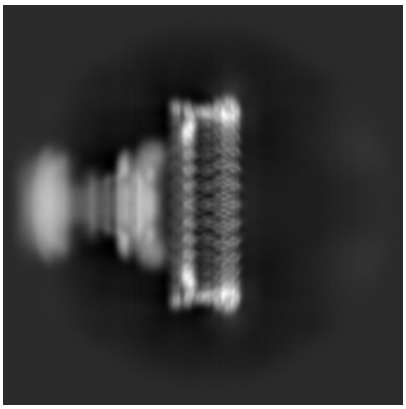
This section contains visualisations of the EMDB entry EMD-42451. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

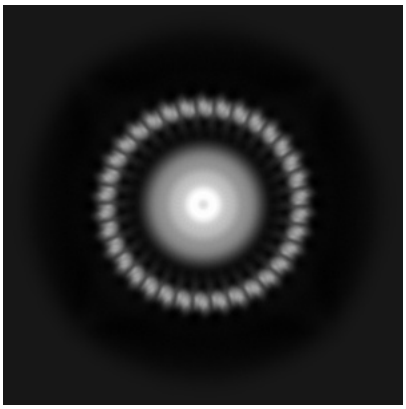
6.1 Orthogonal projections

6.1.1 Primary map

X

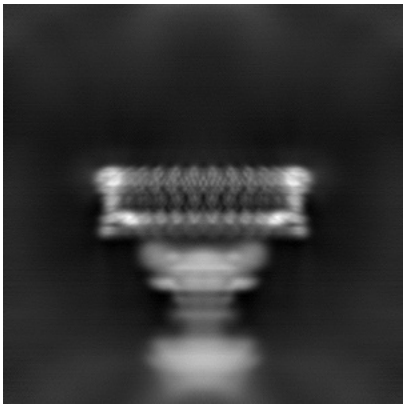


Y

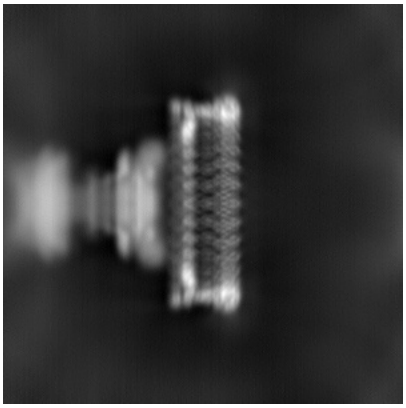


Z

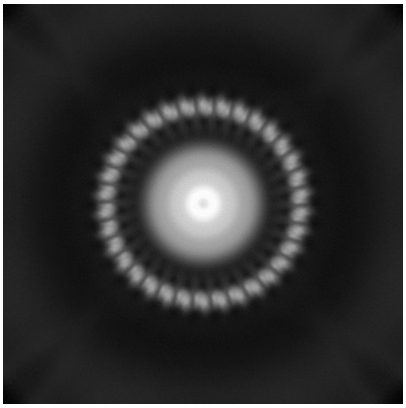
6.1.2 Raw map



X



Y

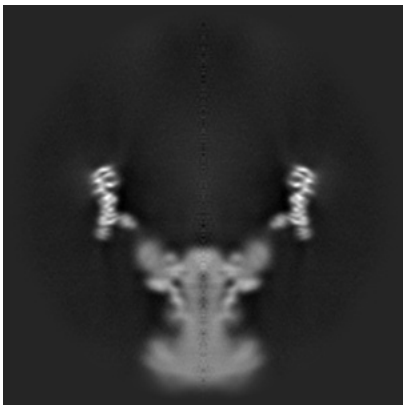


Z

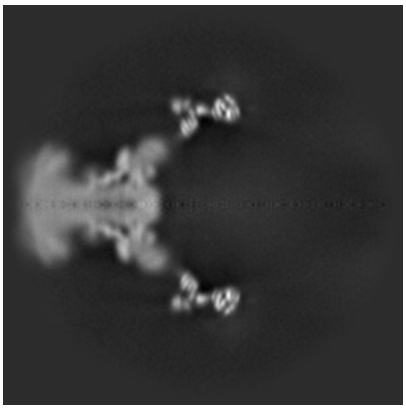
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

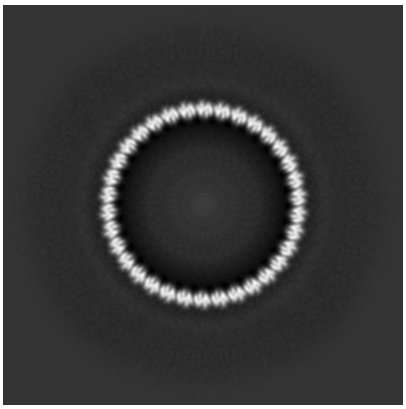
6.2.1 Primary map



X Index: 256

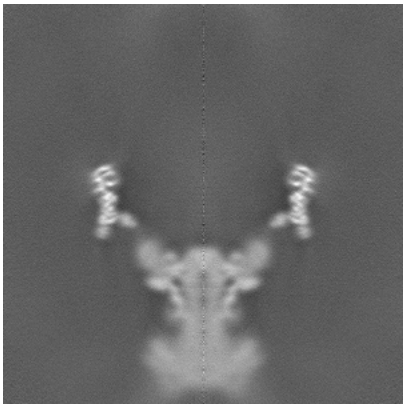


Y Index: 256

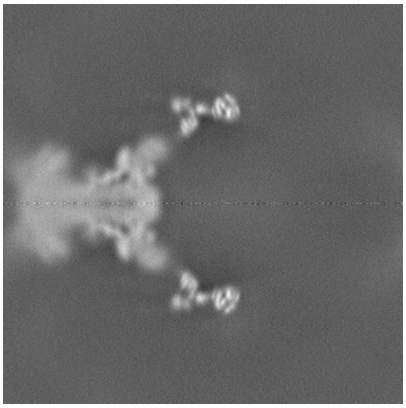


Z Index: 256

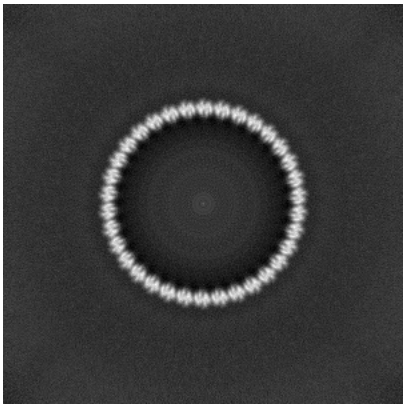
6.2.2 Raw map



X Index: 256



Y Index: 256

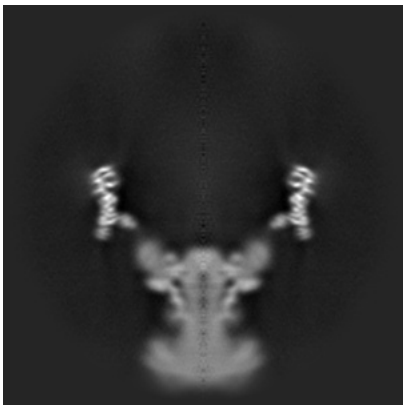


Z Index: 256

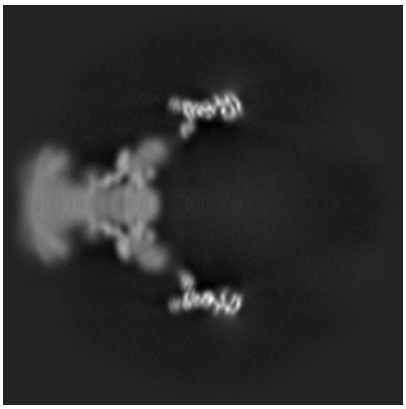
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

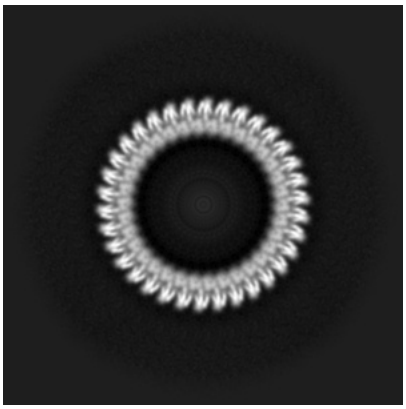
6.3.1 Primary map



X Index: 256

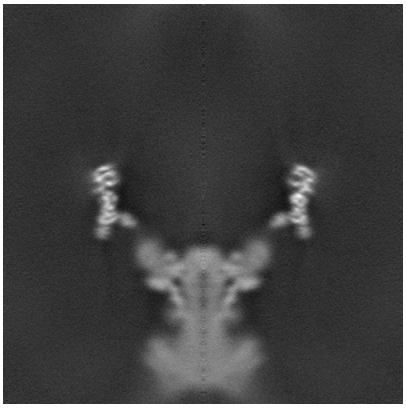


Y Index: 244

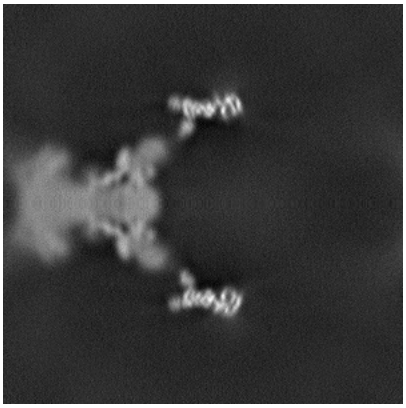


Z Index: 239

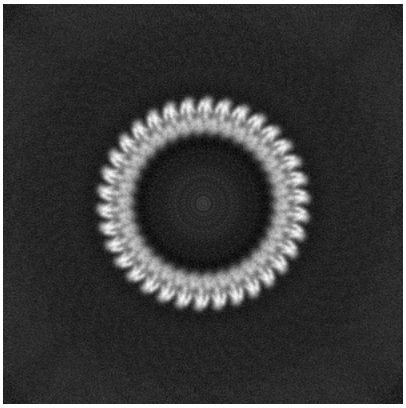
6.3.2 Raw map



X Index: 255



Y Index: 267

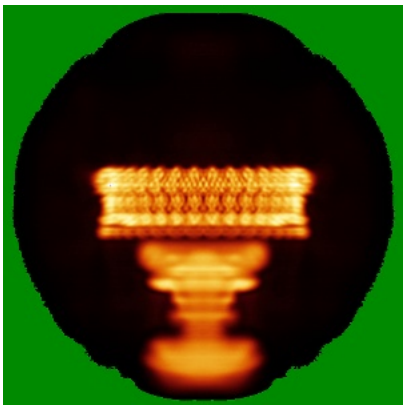


Z Index: 239

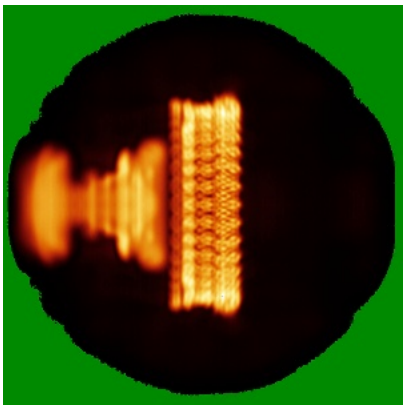
The images above show the largest variance slices of the map in three orthogonal directions.

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

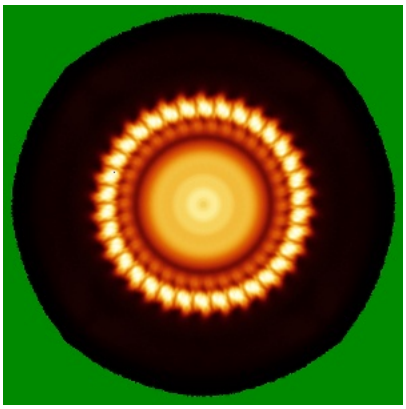
6.4.1 Primary map



X

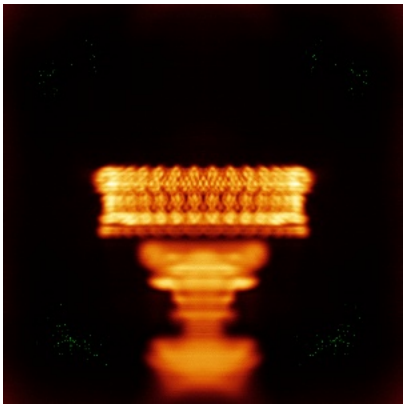


Y

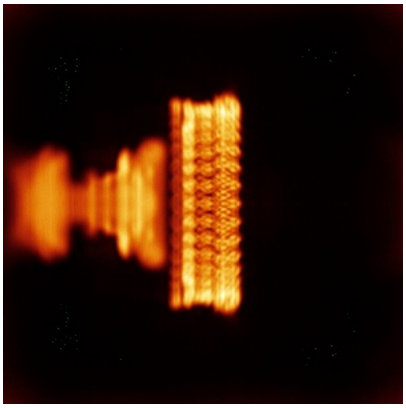


Z

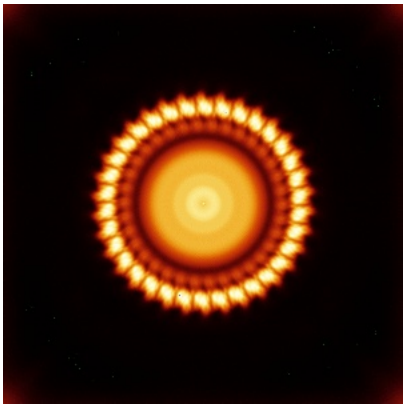
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

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

6.6 Mask visualisation

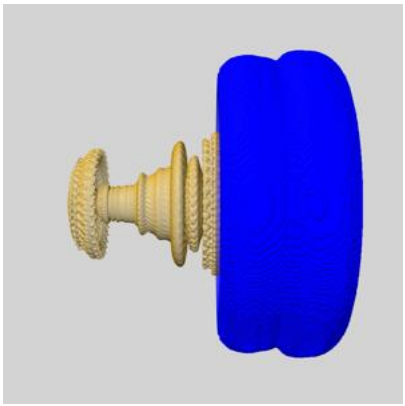
This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

A mask typically either:

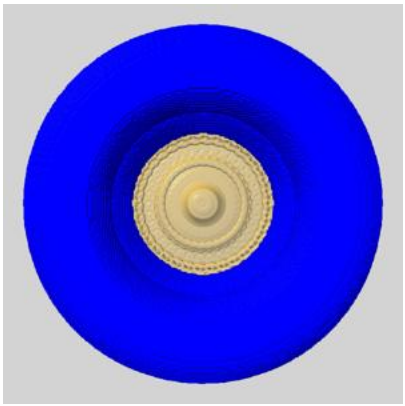
- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

6.6.1 emd_42451_msk_1.map

X



Y

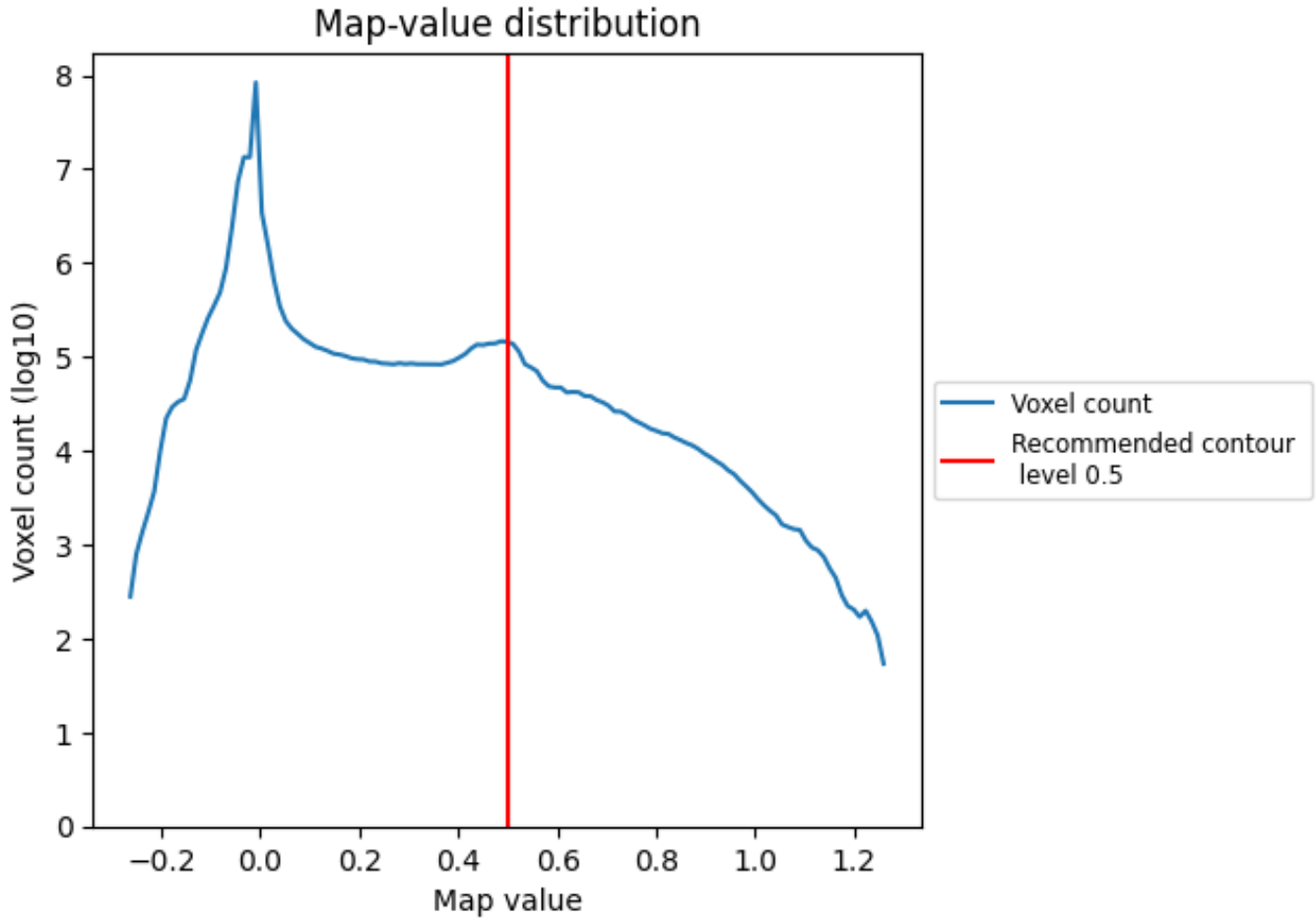


Z

7 Map analysis

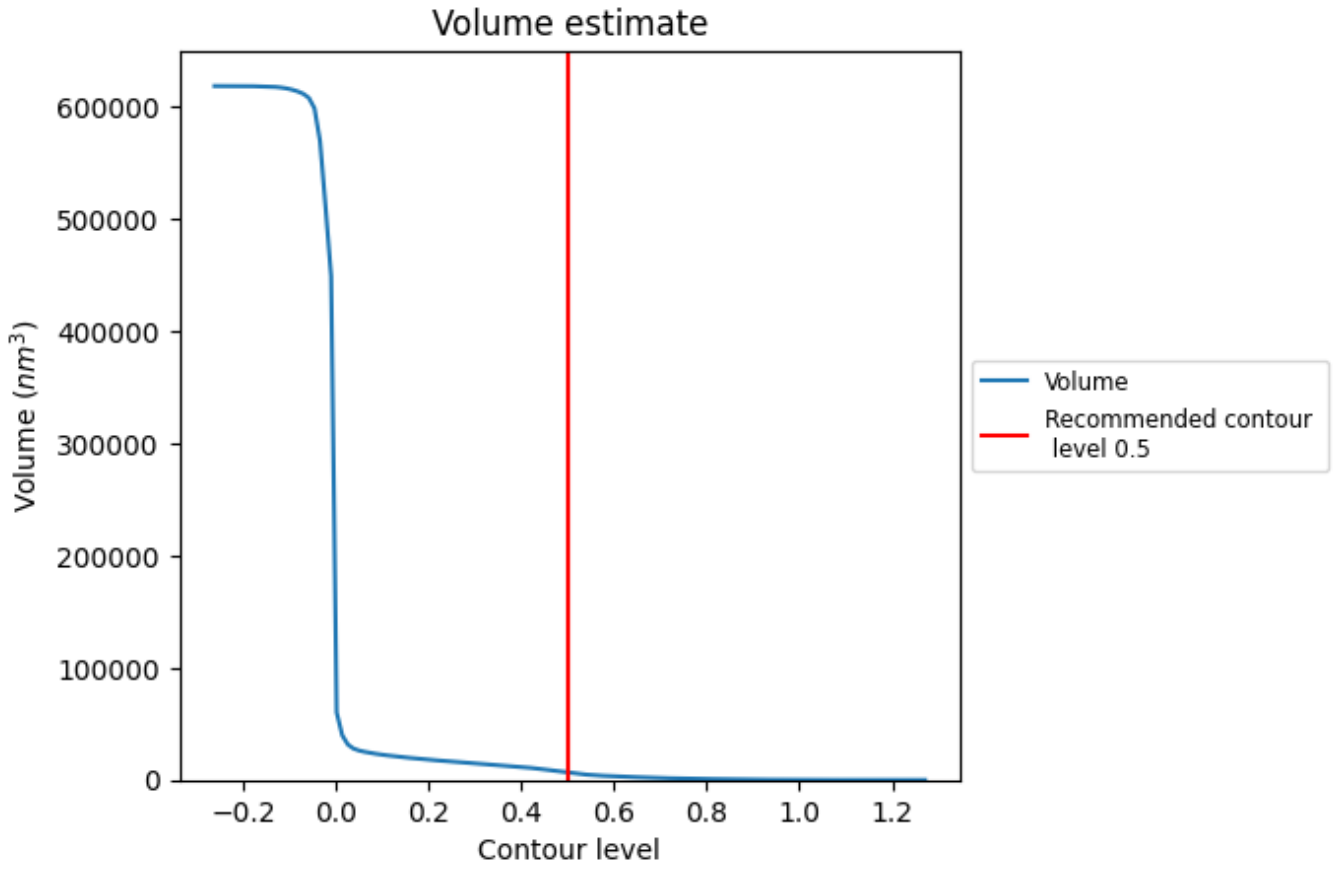
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

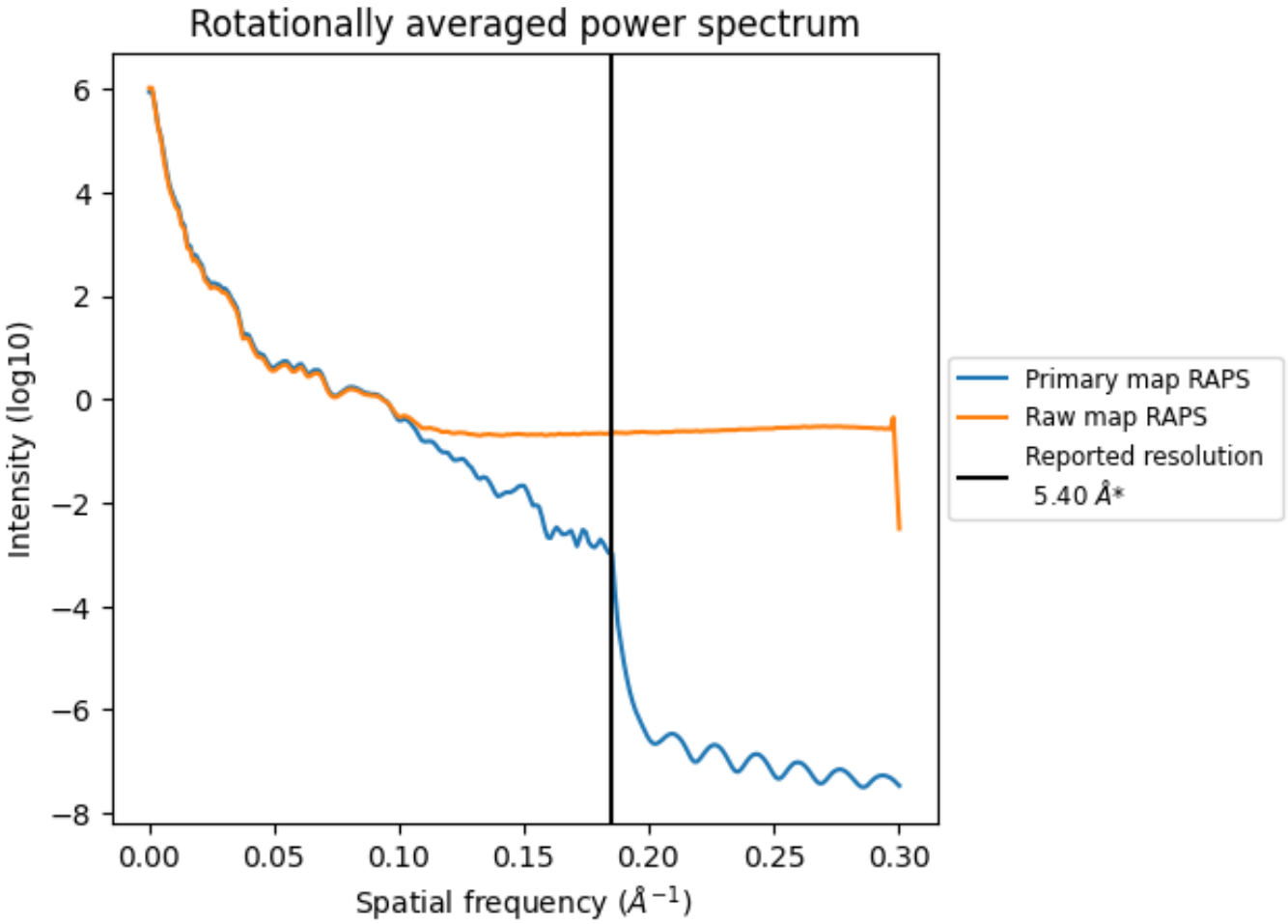
7.2 Volume estimate



The volume at the recommended contour level is 6675 nm^3; this corresponds to an approximate mass of 6030 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)

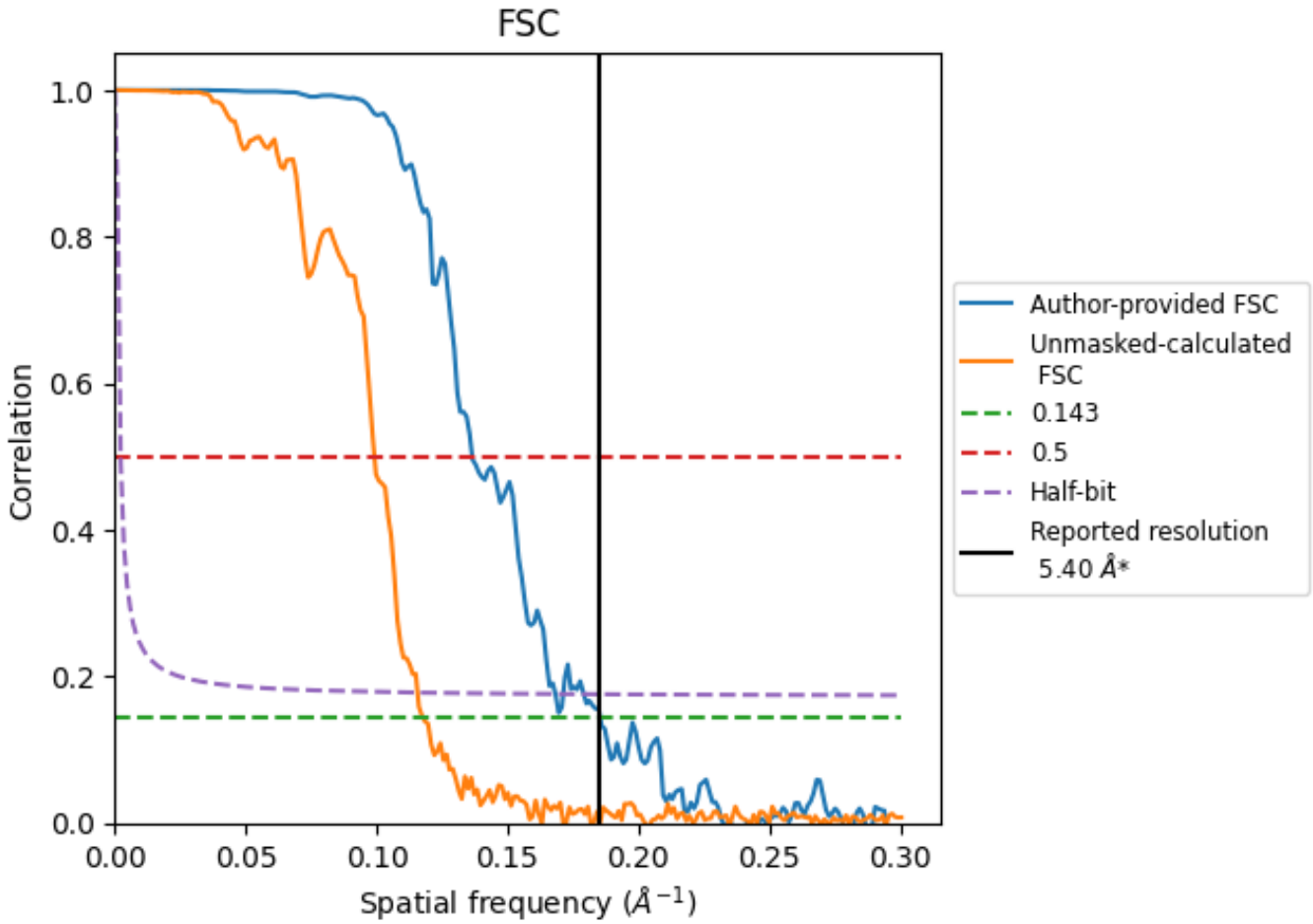


*Reported resolution corresponds to spatial frequency of 0.185 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.185 Å^{-1}

8.2 Resolution estimates (i)

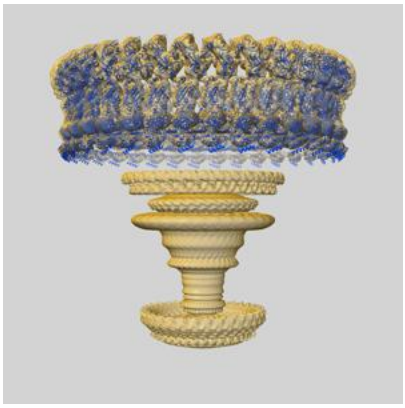
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.40	-	-
Author-provided FSC curve	5.39	7.32	5.94
Unmasked-calculated*	8.49	10.08	8.64

*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 8.49 differs from the reported value 5.4 by more than 10 %

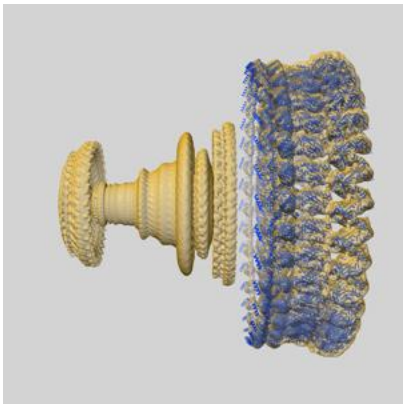
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-42451 and PDB model 8UPL. Per-residue inclusion information can be found in section 3 on page 24.

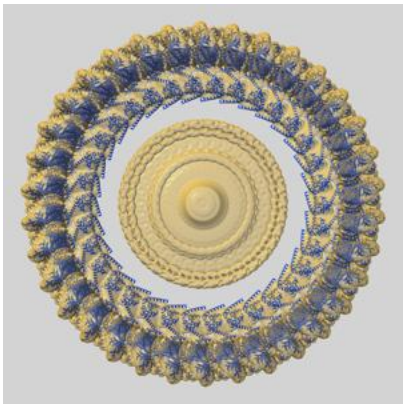
9.1 Map-model overlay



X



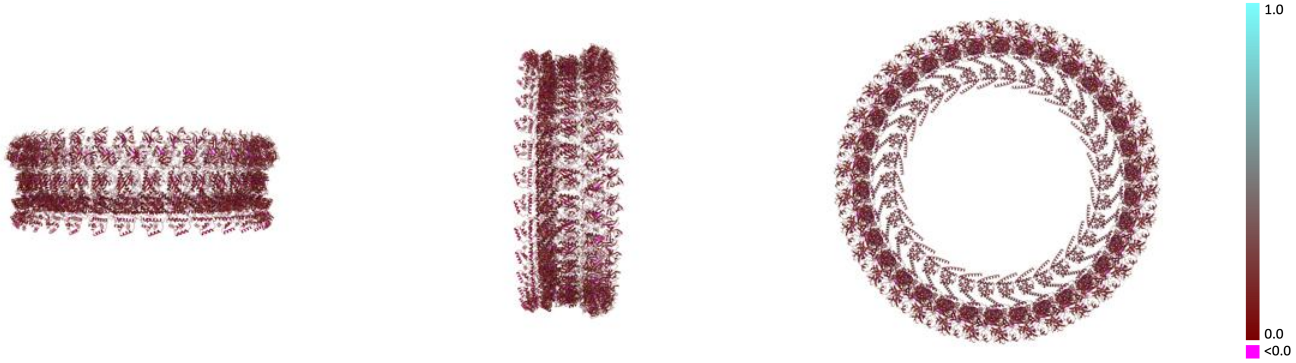
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

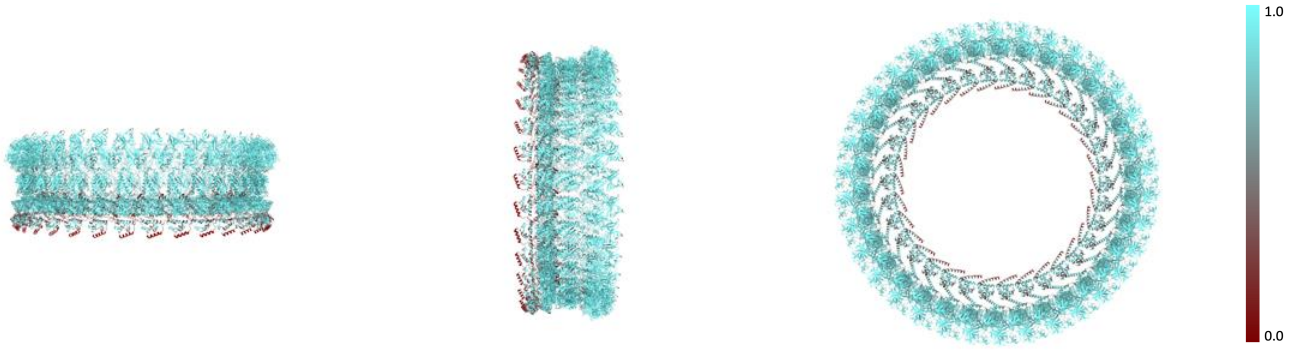
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

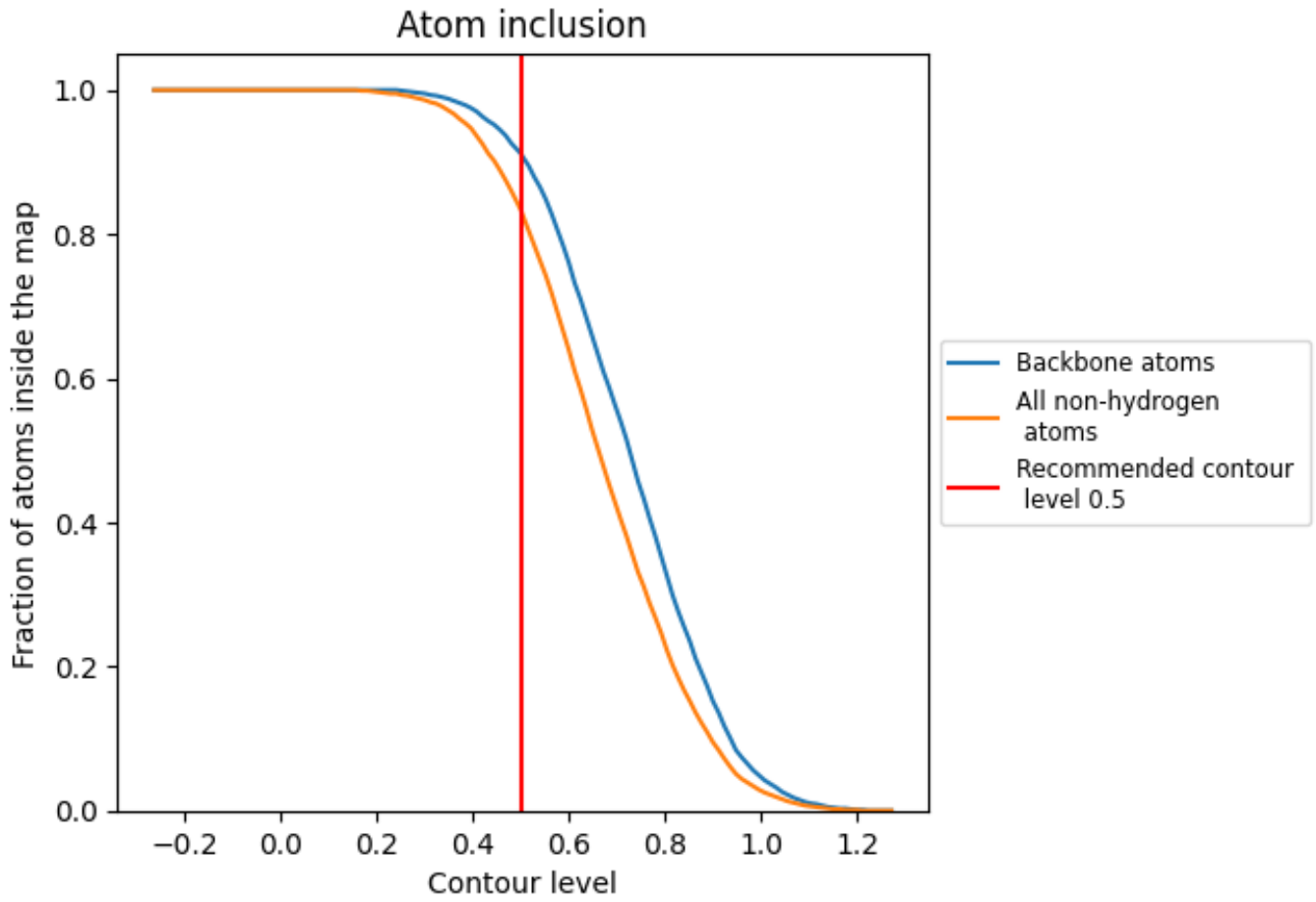
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.5).

9.4 Atom inclusion (i)



At the recommended contour level, 91% of all backbone atoms, 83% 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 (0.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8340	0.1500
A1	0.6020	0.1430
A2	0.6050	0.1370
A3	0.6080	0.1420
A4	0.6080	0.1400
A5	0.5990	0.1420
A6	0.5940	0.1380
A7	0.5940	0.1390
A8	0.5970	0.1380
A9	0.5990	0.1410
AA	0.6020	0.1380
AB	0.5970	0.1350
AC	0.6080	0.1350
AD	0.6080	0.1370
AE	0.5990	0.1340
AF	0.6080	0.1350
AG	0.6050	0.1340
AH	0.5940	0.1340
AI	0.6020	0.1300
AJ	0.6050	0.1350
AK	0.6080	0.1370
AL	0.5990	0.1370
AM	0.6020	0.1340
AN	0.6020	0.1300
AO	0.5990	0.1380
AP	0.5970	0.1370
AQ	0.5990	0.1370
AR	0.6020	0.1390
AS	0.6050	0.1400
AT	0.6050	0.1400
AU	0.6080	0.1420
AV	0.5990	0.1370
AW	0.6080	0.1400
AX	0.6020	0.1440
AY	0.5990	0.1440

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Chain	Atom inclusion	Q-score
B1	0.7470	0.1400
B2	0.7460	0.1400
B3	0.7410	0.1390
B4	0.7430	0.1400
B5	0.7460	0.1400
B6	0.7480	0.1390
B7	0.7440	0.1390
B8	0.7430	0.1400
B9	0.7460	0.1390
BA	0.7490	0.1390
BB	0.7440	0.1400
BC	0.7420	0.1400
BD	0.7460	0.1390
BE	0.7480	0.1380
BF	0.7440	0.1400
BG	0.7440	0.1400
BH	0.7420	0.1410
BI	0.7460	0.1400
BJ	0.7460	0.1390
BK	0.7440	0.1400
BL	0.7430	0.1390
BM	0.7470	0.1400
BN	0.7470	0.1400
BO	0.7440	0.1400
BP	0.7410	0.1400
BQ	0.7460	0.1400
BR	0.7480	0.1390
BS	0.7440	0.1390
BT	0.7430	0.1410
BU	0.7450	0.1390
BV	0.7470	0.1400
BW	0.7450	0.1400
BX	0.7420	0.1400
BY	0.7430	0.1390
C1	0.8960	0.1540
C2	0.8940	0.1550
C3	0.8950	0.1550
C4	0.8940	0.1540
C5	0.8960	0.1550
C6	0.8960	0.1560
C7	0.8950	0.1550
C8	0.8960	0.1560

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Chain	Atom inclusion	Q-score
C9	0.8960	0.1550
CA	0.8970	0.1560
CB	0.8950	0.1560
CC	0.8940	0.1540
CD	0.8960	0.1530
CE	0.8950	0.1550
CF	0.8960	0.1550
CG	0.8950	0.1540
CH	0.8960	0.1550
CI	0.8980	0.1550
CJ	0.8940	0.1570
CK	0.8940	0.1560
CL	0.8950	0.1550
CM	0.8980	0.1550
CN	0.8960	0.1550
CO	0.8930	0.1560
CP	0.8920	0.1560
CQ	0.8970	0.1540
CR	0.8950	0.1550
CS	0.8940	0.1550
CT	0.8960	0.1550
CU	0.8980	0.1560
CV	0.8950	0.1540
CW	0.8960	0.1550
CX	0.8930	0.1540
CY	0.8970	0.1560
D1	0.9150	0.1640
D2	0.9090	0.1650
D3	0.9100	0.1650
D4	0.9200	0.1680
D5	0.9200	0.1650
D6	0.9180	0.1680
D7	0.9150	0.1630
D8	0.9200	0.1650
D9	0.9200	0.1630
DA	0.9100	0.1630
DB	0.9140	0.1650
DC	0.9150	0.1640
DD	0.9070	0.1620
DE	0.9140	0.1650
DF	0.9100	0.1620
DG	0.9070	0.1620

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Chain	Atom inclusion	Q-score
DH	0.9120	0.1630
DI	0.9170	0.1640
DJ	0.9180	0.1640
DK	0.9200	0.1650
DL	0.9180	0.1660
DM	0.9180	0.1670
DN	0.9120	0.1670
DO	0.9150	0.1620
DP	0.9120	0.1640
DQ	0.9180	0.1660
DR	0.9120	0.1670
DS	0.9120	0.1660
DT	0.9120	0.1670
DU	0.9060	0.1650
DV	0.9090	0.1630
DW	0.9090	0.1650
DX	0.9070	0.1670
DY	0.9140	0.1670
E1	0.9390	0.1550
E2	0.9410	0.1570
E3	0.9360	0.1550
E4	0.9390	0.1540
E5	0.9390	0.1530
E6	0.9380	0.1540
E7	0.9380	0.1560
E8	0.9360	0.1550
E9	0.9380	0.1550
EA	0.9430	0.1530
EB	0.9380	0.1560
EC	0.9410	0.1560
ED	0.9380	0.1590
EE	0.9390	0.1550
EF	0.9360	0.1570
EG	0.9360	0.1590
EH	0.9360	0.1580
EI	0.9390	0.1560
EJ	0.9360	0.1550
EK	0.9360	0.1600
EL	0.9390	0.1590
EM	0.9410	0.1580
EN	0.9390	0.1570
EO	0.9380	0.1610

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Chain	Atom inclusion	Q-score
EP	0.9340	0.1610
EQ	0.9390	0.1610
ER	0.9430	0.1590
ES	0.9390	0.1590
ET	0.9390	0.1600
EU	0.9410	0.1630
EV	0.9430	0.1600
EW	0.9320	0.1580
EX	0.9380	0.1590
EY	0.9410	0.1600
F1	0.9170	0.1570
F2	0.9220	0.1600
F3	0.9200	0.1580
F4	0.9190	0.1620
F5	0.9220	0.1590
F6	0.9160	0.1580
F7	0.9230	0.1600
F8	0.9190	0.1560
F9	0.9140	0.1570
FA	0.9170	0.1590
FB	0.9140	0.1580
FC	0.9200	0.1610
FD	0.9220	0.1590
FE	0.9170	0.1600
FF	0.9230	0.1600
FG	0.9120	0.1570
FH	0.9190	0.1570
FI	0.9230	0.1570
FJ	0.9160	0.1550
FK	0.9200	0.1540
FL	0.9160	0.1580
FM	0.9170	0.1550
FN	0.9250	0.1560
FO	0.9170	0.1540
FP	0.9160	0.1530
FQ	0.9120	0.1530
FR	0.9160	0.1540
FS	0.9160	0.1520
FT	0.9160	0.1530
FU	0.9170	0.1560
FV	0.9160	0.1580
FW	0.9140	0.1540

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Chain	Atom inclusion	Q-score
FX	0.9120	0.1530
FY	0.9200	0.1550