Full wwPDB EM Validation Report ⓘ

May 7, 2026 – 08:59 PM JST

PDB ID	:	8Z60 / pdb_00008z60
EMDB ID	:	EMD-39790
Title	:	Cryo-EM structure of the polar flagellar motor-hook complex
Authors	:	Zhang, L.; Tan, J.X.; Zhou, Y.; Zhu, Y.Q.
Deposited on	:	2024-04-18
Resolution	:	3.22 Å(reported)
Based on initial model	:	.

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

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

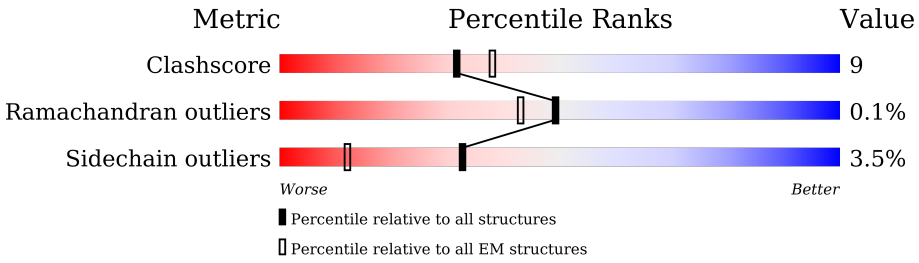
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

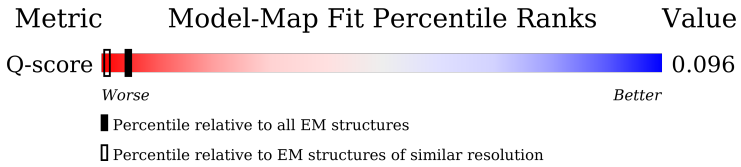
1 Overall quality at a glance

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

The reported resolution of this entry is 3.22 Å.

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





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14612 (2.72 - 3.72)

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	0	199	80% 68% 21% • 10%
1	9	199	72% 73% 17% 10%
2	1	289	7% 57% 14% 28%
2	2	289	6% 56% 15% • 28%

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Mol	Chain	Length	Quality of chain
2	3	289	56% 15% 28%
2	y	289	57% 14% 28%
2	z	289	54% 17% 28%
3	4	89	71% 28%
3	5	89	70% 28%
3	6	89	70% 28%
3	7	89	78% 22%
4	8	260	69% 22% 7%
5	A	262	78% 21%
5	AP	262	80% 19%
5	AQ	262	5% 80% 19%
5	AR	262	73% 21% 5%
5	AS	262	72% 22% 5%
5	AT	262	77% 16% 5%
5	AU	262	75% 19% 5%
5	AV	262	76% 16% 5%
5	AW	262	81% 18%
5	AX	262	79% 19%
5	AY	262	76% 23%
5	AZ	262	74% 24%
5	Aa	262	73% 26%
5	B	262	76% 23%
5	C	262	78% 21%
5	P	262	71% 28%
5	Q	262	75% 23%

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Mol	Chain	Length	Quality of chain
5	R	262	81% 18%
5	S	262	73% 27%
5	T	262	68% 30%
5	U	262	77% 22%
5	V	262	77% 21%
5	W	262	72% 27%
5	X	262	79% 20%
5	Y	262	80% 18%
5	Z	262	84% 14%
5	a	262	79% 20%
6	A1	437	31% 80% 18%
6	A2	437	35% 80% 19%
6	A3	437	36% 78% 20%
6	Ab	437	5% 81% 17%
6	Ac	437	8% 77% 22%
6	Ad	437	9% 79% 19%
6	Ae	437	10% 82% 16%
6	Af	437	9% 78% 21%
6	Ag	437	6% 80% 19%
6	Ah	437	6% 83% 16%
6	Ai	437	8% 80% 19%
6	Aj	437	11% 79% 19%
6	Ak	437	8% 79% 19%
6	Al	437	9% 82% 17%
6	Am	437	9% 84% 14%

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Mol	Chain	Length	Quality of chain
6	An	437	10% 81% 17%
6	Ao	437	9% 81% 17%
6	Ap	437	12% 78% 19%
6	Aq	437	10% 80% 18%
6	Ar	437	13% 81% 17%
6	As	437	9% 81% 16%
6	At	437	12% 80% 18%
6	Au	437	14% 81% 16%
6	Av	437	15% 77% 20%
6	Aw	437	18% 81% 17%
6	Ax	437	19% 81% 18%
6	Ay	437	22% 76% 22%
6	Az	437	27% 81% 16%
6	D	437	7% 82% 17%
6	E	437	84% 15%
6	F	437	5% 84% 15%
6	G	437	6% 83% 16%
6	H	437	7% 84% 15%
6	I	437	7% 82% 16%
6	J	437	6% 84% 15%
6	K	437	7% 81% 18%
6	L	437	8% 81% 16%
6	M	437	6% 82% 16%
6	N	437	7% 85% 14%
6	O	437	7% 84% 14%

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Mol	Chain	Length	Quality of chain
7	AA	580	97%
7	AB	580	97%
7	AC	580	97%
7	AD	580	97%
7	AE	580	97%
7	AF	580	96%
7	AG	580	98%
7	AH	580	98%
7	AI	580	98%
7	AJ	580	96%
7	AK	580	96%
7	AL	580	5% 94%
7	AM	580	5% 94%
7	AN	580	5% 94%
7	AO	580	94%
7	D1	580	22% 74%
7	D2	580	21% 74%
7	D3	580	21% 74%
7	D4	580	21% 74%
7	D5	580	21% 74%
7	Dz	580	22% 74%
7	E1	580	22% 74%
7	E2	580	21% 74%
7	E3	580	21% 5% 74%
7	E4	580	22% 74%

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Mol	Chain	Length	Quality of chain
7	E5	580	22% 74%
7	EG	580	21% 74%
7	EH	580	22% 74%
7	EI	580	22% 74%
7	EJ	580	21% 74%
7	EK	580	21% 74%
7	EL	580	21% 74%
7	EM	580	21% 74%
7	EN	580	22% 74%
7	EO	580	22% 74%
7	EP	580	22% 74%
7	EQ	580	22% 74%
7	ER	580	21% 74%
7	ES	580	21% 74%
7	ET	580	22% 74%
7	EU	580	22% 74%
7	EV	580	22% 74%
7	EW	580	22% 74%
7	EX	580	11% 7% 80%
7	EY	580	9% 9% 80%
7	EZ	580	12% 7% 80%
7	Ea	580	12% 7% 80%
7	Eb	580	11% 7% 80%
7	Ec	580	12% 5% 81%
7	Ed	580	12% 6% 80%

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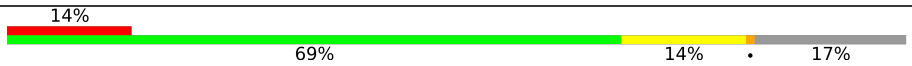
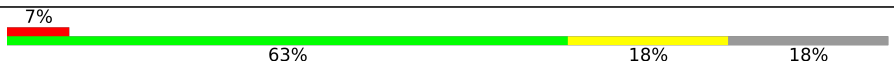
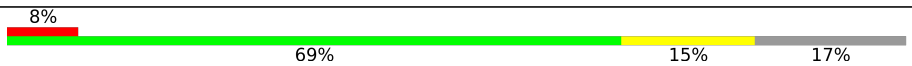
Mol	Chain	Length	Quality of chain
7	Ee	580	
7	Ef	580	
7	Eg	580	
7	Eh	580	
7	Ei	580	
7	Ej	580	
7	Ek	580	
7	El	580	
7	Em	580	
7	En	580	
7	Eo	580	
7	Ep	580	
7	Eq	580	
7	Er	580	
7	Es	580	
7	Et	580	
7	Eu	580	
7	Ev	580	
7	Ew	580	
7	Ex	580	
7	Ey	580	
7	Ez	580	
8	b	131	
8	c	131	
8	d	131	

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Mol	Chain	Length	Quality of chain
8	e	131	10% 66% 15% 18%
8	f	131	11% 67% 15% 18%
9	g	137	7% 79% 16% 5%
9	h	137	72% 23% 5%
9	i	137	64% 27% 5%
9	j	137	81% 13% 5%
9	k	137	75% 20% 5%
9	l	137	74% 20% 5%
10	m	249	9% 77% 22%
10	n	249	5% 69% 29%
10	o	249	79% 20%
10	p	249	10% 80% 20%
10	q	249	13% 76% 24%
11	r	103	6% 54% 15% 30%
11	s	103	67% 10% 22%
11	t	103	7% 60% 17% 22%
11	u	103	57% 13% 30%
11	v	103	5% 56% 14% 30%
11	w	103	29% 10% 61%
12	x	376	14% 5% 81%
13	A8	377	73% 20% 7%
13	B1	377	6% 73% 20% 7%
13	B6	377	72% 21% 7%
13	B7	377	72% 21% 7%
13	BC	377	73% 20% 7%

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Mol	Chain	Length	Quality of chain
13	BH	377	5% 73% 20% 7%
13	BM	377	5% 74% 19% 7%
13	BR	377	5% 73% 20% 7%
13	BW	377	5% 73% 20% 7%
13	Bb	377	72% 21% 7%
13	Bg	377	71% 22% 7%
13	Bl	377	72% 21% 7%
13	Bq	377	73% 20% 7%
13	Bv	377	73% 20% 7%
13	C3	377	73% 20% 7%
13	C8	377	6% 73% 20% 7%
13	CB	377	73% 20% 7%
13	CJ	377	72% 21% 7%
13	CO	377	74% 19% 7%
13	CT	377	5% 72% 21% 7%
13	CY	377	5% 73% 20% 7%
13	Cd	377	5% 73% 20% 7%
13	Ci	377	72% 21% 7%
13	Cn	377	72% 21% 7%
13	Cs	377	72% 21% 7%
13	Cx	377	73% 20% 7%
14	A4	259	69% 17% 15%
14	A9	259	69% 16% 15%
14	B2	259	70% 15% 15%
14	B8	259	69% 16% 15%

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Mol	Chain	Length	Quality of chain
14	BD	259	69% 16% 15%
14	BI	259	70% 15% 15%
14	BN	259	69% 16% 15%
14	BS	259	69% 17% 15%
14	BX	259	69% 16% 15%
14	Bc	259	70% 15% 15%
14	Bh	259	70% 15% 15%
14	Bm	259	69% 16% 15%
14	Br	259	69% 16% 15%
14	Bw	259	70% 15% 15%
14	C4	259	70% 15% 15%
14	C9	259	69% 16% 15%
14	CC	259	70% 15% 15%
14	CK	259	69% 16% 15%
14	CP	259	69% 16% 15%
14	CU	259	70% 15% 15%
14	CZ	259	69% 16% 15%
14	Ce	259	69% 16% 15%
14	Cj	259	70% 15% 15%
14	Co	259	70% 15% 15%
14	Ct	259	70% 15% 15%
14	Cy	259	70% 15% 15%
15	A0	143	5% 92%
15	A5	143	5% 92%
15	B3	143	5% 92%

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Mol	Chain	Length	Quality of chain
15	B9	143	5% 92%
15	BE	143	5% 92%
15	BJ	143	5% 92%
15	BO	143	5% 92%
15	BT	143	5% 92%
15	BY	143	5% 92%
15	Bd	143	5% 92%
15	Bi	143	5% 92%
15	Bn	143	5% 92%
15	Bs	143	5% 92%
15	Bx	143	5% 92%
15	C0	143	5% 92%
15	C5	143	5% 92%
15	CD	143	5% 92%
15	CL	143	5% 92%
15	CQ	143	5% 92%
15	CV	143	5% 92%
15	Ca	143	5% 92%
15	Cf	143	5% 92%
15	Ck	143	5% 92%
15	Cp	143	5% 92%
15	Cu	143	5% 92%
15	Cz	143	5% 92%
16	A6	13	31% 92% 8%
16	B0	13	31% 92% 8%

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Mol	Chain	Length	Quality of chain
16	B4	13	23% 92% 8%
16	BA	13	38% 92% 8%
16	BF	13	15% 92% 8%
16	BK	13	8% 92% 8%
16	BP	13	15% 92% 8%
16	BU	13	23% 92% 8%
16	BZ	13	31% 92% 8%
16	Be	13	38% 92% 8%
16	Bj	13	31% 92% 8%
16	Bo	13	8% 92% 8%
16	Bt	13	15% 92% 8%
16	By	13	23% 92% 8%
16	C1	13	15% 92% 8%
16	C6	13	23% 92% 8%
16	CE	13	38% 92% 8%
16	CH	13	23% 92% 8%
16	CM	13	15% 92% 8%
16	CR	13	8% 92% 8%
16	CW	13	15% 92% 8%
16	Cb	13	23% 92% 8%
16	Cg	13	31% 92% 8%
16	Cl	13	38% 92% 8%
16	Cq	13	31% 92% 8%
16	Cv	13	8% 92% 8%
16	D0	13	46% 46% 46% 8%

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Mol	Chain	Length	Quality of chain
17	A7	363	67% 12% 21%
17	B5	363	66% 13% 21%
17	BB	363	67% 12% 21%
17	BG	363	67% 12% 21%
17	BL	363	67% 12% 21%
17	BQ	363	67% 12% 21%
17	BV	363	66% 12% 21%
17	Ba	363	66% 12% 21%
17	Bf	363	66% 12% 21%
17	Bk	363	67% 12% 21%
17	Bp	363	66% 12% 21%
17	Bu	363	66% 12% 21%
17	Bz	363	66% 13% 21%
17	C2	363	66% 13% 21%
17	C7	363	67% 12% 21%
17	CA	363	66% 12% 21%
17	CF	363	66% 13% 21%
17	CI	363	67% 12% 21%
17	CN	363	66% 13% 21%
17	CS	363	65% 13% 21%
17	CX	363	66% 13% 21%
17	Cc	363	66% 13% 21%
17	Ch	363	66% 12% 21%
17	Cm	363	66% 12% 21%
17	Cr	363	66% 12% 21%

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Mol	Chain	Length	Quality of chain
17	Cw	363	66% 13% 21%
18	CG	293	74% 18% 8%
18	DA	293	71% 21% 8%
18	DD	293	73% 18% 8%
18	DE	293	71% 20% 8%
18	DH	293	73% 18% 8%
18	DI	293	71% 20% 8%
18	DL	293	74% 18% 8%
18	DM	293	71% 20% 8%
18	DP	293	73% 18% 8%
18	DQ	293	70% 22% 8%
18	DT	293	73% 18% 8%
18	DU	293	70% 21% 8%
18	DX	293	73% 18% 8%
18	DY	293	71% 20% 8%
18	Db	293	74% 17% 8%
18	Dc	293	71% 21% 8%
18	Df	293	74% 17% 8%
18	Dg	293	70% 21% 8%
18	Dj	293	73% 18% 8%
18	Dk	293	72% 20% 8%
18	Dn	293	74% 17% 8%
18	Do	293	71% 20% 8%
18	Dr	293	73% 18% 8%
18	Ds	293	70% 21% 8%

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Mol	Chain	Length	Quality of chain
18	Dv	293	74% 17% 8%
18	Dw	293	71% 20% 8%
19	DB	211	63% 21% 15%
19	DC	211	6% 71% 13% 15%
19	DF	211	6% 64% 20% 15%
19	DG	211	70% 14% 15%
19	DJ	211	7% 64% 20% 15%
19	DK	211	70% 14% 15%
19	DN	211	6% 64% 20% 15%
19	DO	211	71% 13% 15%
19	DR	211	8% 63% 21% 15%
19	DS	211	5% 69% 15% 15%
19	DV	211	5% 63% 21% 15%
19	DW	211	5% 69% 15% 15%
19	DZ	211	63% 21% 15%
19	Da	211	71% 13% 15%
19	Dd	211	6% 64% 20% 15%
19	De	211	6% 70% 14% 15%
19	Dh	211	6% 63% 21% 15%
19	Di	211	70% 14% 15%
19	Dl	211	64% 20% 15%
19	Dm	211	5% 70% 14% 15%
19	Dp	211	5% 64% 19% 15%
19	Dq	211	5% 68% 16% 15%
19	Dt	211	5% 64% 20% 15%

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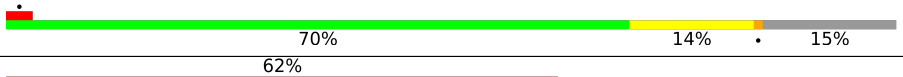
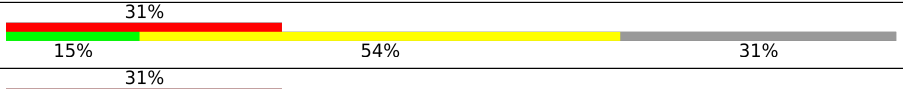
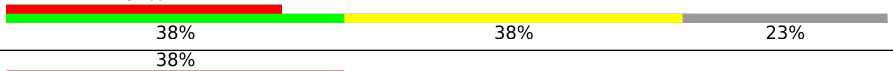
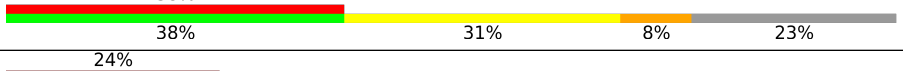
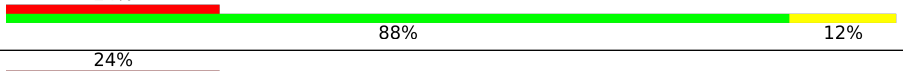
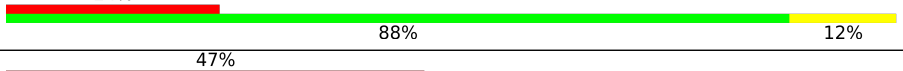
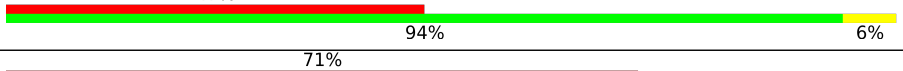
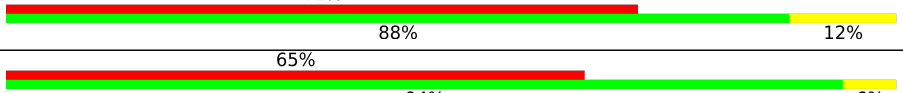
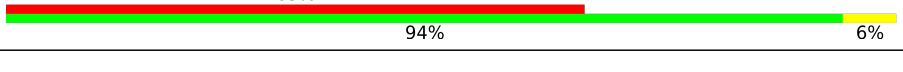
Mol	Chain	Length	Quality of chain
19	Du	211	
19	Dx	211	
19	Dy	211	
20	D6	13	
20	D7	13	
20	D8	13	
20	D9	13	
21	EA	17	
21	EB	17	
21	EC	17	
21	ED	17	
21	EE	17	
21	EF	17	

2 Entry composition

There are 23 unique types of molecules in this entry. The entry contains 555596 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 LRR.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	180	Total	C	N	O	S	0	0
			1361	876	231	253	1		
1	9	180	Total	C	N	O	S	0	0
			1361	876	231	253	1		

- Molecule 2 is a protein called Flagellar biosynthetic protein FliP.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	207	Total	C	N	O	S	0	0
			1599	1055	243	282	19		
2	2	208	Total	C	N	O	S	0	0
			1608	1060	244	285	19		
2	3	208	Total	C	N	O	S	0	0
			1608	1060	244	285	19		
2	y	208	Total	C	N	O	S	0	0
			1608	1060	244	285	19		
2	z	208	Total	C	N	O	S	0	0
			1608	1060	244	285	19		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1	26	SER	THR	conflict	UNP A0A1W6TTE6
1	204	ASP	GLU	conflict	UNP A0A1W6TTE6
2	26	SER	THR	conflict	UNP A0A1W6TTE6
2	204	ASP	GLU	conflict	UNP A0A1W6TTE6
3	26	SER	THR	conflict	UNP A0A1W6TTE6
3	204	ASP	GLU	conflict	UNP A0A1W6TTE6
y	26	SER	THR	conflict	UNP A0A1W6TTE6
y	204	ASP	GLU	conflict	UNP A0A1W6TTE6
z	26	SER	THR	conflict	UNP A0A1W6TTE6
z	204	ASP	GLU	conflict	UNP A0A1W6TTE6

- Molecule 3 is a protein called Flagellar biosynthetic protein FliQ.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	4	89	Total	C	N	O	S	0	0
			722	489	107	117	9		
3	5	89	Total	C	N	O	S	0	0
			722	489	107	117	9		
3	6	89	Total	C	N	O	S	0	0
			722	489	107	117	9		
3	7	89	Total	C	N	O	S	0	0
			722	489	107	117	9		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4	34	ILE	VAL	conflict	UNP A0A0H0YAF4
5	34	ILE	VAL	conflict	UNP A0A0H0YAF4
6	34	ILE	VAL	conflict	UNP A0A0H0YAF4
7	34	ILE	VAL	conflict	UNP A0A0H0YAF4

- Molecule 4 is a protein called Flagellar biosynthetic protein FliR.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	8	242	Total	C	N	O	S	0	0
			1896	1265	295	315	21		

- Molecule 5 is a protein called Flagellar basal-body rod protein FlgG.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AP	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AQ	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AR	248	Total	C	N	O	S	0	0
			1858	1151	317	382	8		
5	AS	248	Total	C	N	O	S	0	0
			1858	1151	317	382	8		
5	AT	249	Total	C	N	O	S	0	0
			1866	1156	318	383	9		
5	AU	248	Total	C	N	O	S	0	0
			1858	1151	317	382	8		
5	AV	248	Total	C	N	O	S	0	0
			1858	1151	317	382	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	AW	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AX	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AY	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	AZ	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	Aa	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	B	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	C	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	P	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	Q	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	R	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	S	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	T	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	U	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	V	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	W	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	X	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	Y	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	Z	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		
5	a	262	Total	C	N	O	S	0	0
			1956	1208	334	405	9		

- Molecule 6 is a protein called Flagellar hook protein FlgE.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A1	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	A2	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	A3	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ab	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ac	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ad	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ae	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Af	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ag	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ah	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ai	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Aj	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ak	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Al	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Am	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	An	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ao	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ap	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Aq	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ar	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	As	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	At	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	Au	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Av	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Aw	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ax	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Ay	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	Az	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	D	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	E	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	F	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	G	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	H	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	I	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	J	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	K	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	L	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	M	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	N	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		
6	O	435	Total	C	N	O	S	0	0
			3319	2052	563	696	8		

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A1	335	MET	LEU	conflict	UNP A0A0H0YA78
A2	335	MET	LEU	conflict	UNP A0A0H0YA78
A3	335	MET	LEU	conflict	UNP A0A0H0YA78

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Chain	Residue	Modelled	Actual	Comment	Reference
Ab	335	MET	LEU	conflict	UNP A0A0H0YA78
Ac	335	MET	LEU	conflict	UNP A0A0H0YA78
Ad	335	MET	LEU	conflict	UNP A0A0H0YA78
Ae	335	MET	LEU	conflict	UNP A0A0H0YA78
Af	335	MET	LEU	conflict	UNP A0A0H0YA78
Ag	335	MET	LEU	conflict	UNP A0A0H0YA78
Ah	335	MET	LEU	conflict	UNP A0A0H0YA78
Ai	335	MET	LEU	conflict	UNP A0A0H0YA78
Aj	335	MET	LEU	conflict	UNP A0A0H0YA78
Ak	335	MET	LEU	conflict	UNP A0A0H0YA78
Al	335	MET	LEU	conflict	UNP A0A0H0YA78
Am	335	MET	LEU	conflict	UNP A0A0H0YA78
An	335	MET	LEU	conflict	UNP A0A0H0YA78
Ao	335	MET	LEU	conflict	UNP A0A0H0YA78
Ap	335	MET	LEU	conflict	UNP A0A0H0YA78
Aq	335	MET	LEU	conflict	UNP A0A0H0YA78
Ar	335	MET	LEU	conflict	UNP A0A0H0YA78
As	335	MET	LEU	conflict	UNP A0A0H0YA78
At	335	MET	LEU	conflict	UNP A0A0H0YA78
Au	335	MET	LEU	conflict	UNP A0A0H0YA78
Av	335	MET	LEU	conflict	UNP A0A0H0YA78
Aw	335	MET	LEU	conflict	UNP A0A0H0YA78
Ax	335	MET	LEU	conflict	UNP A0A0H0YA78
Ay	335	MET	LEU	conflict	UNP A0A0H0YA78
Az	335	MET	LEU	conflict	UNP A0A0H0YA78
D	335	MET	LEU	conflict	UNP A0A0H0YA78
E	335	MET	LEU	conflict	UNP A0A0H0YA78
F	335	MET	LEU	conflict	UNP A0A0H0YA78
G	335	MET	LEU	conflict	UNP A0A0H0YA78
H	335	MET	LEU	conflict	UNP A0A0H0YA78
I	335	MET	LEU	conflict	UNP A0A0H0YA78
J	335	MET	LEU	conflict	UNP A0A0H0YA78
K	335	MET	LEU	conflict	UNP A0A0H0YA78
L	335	MET	LEU	conflict	UNP A0A0H0YA78
M	335	MET	LEU	conflict	UNP A0A0H0YA78
N	335	MET	LEU	conflict	UNP A0A0H0YA78
O	335	MET	LEU	conflict	UNP A0A0H0YA78

- Molecule 7 is a protein called Flagellar M-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AA	19	Total	C	N	O	S	0	0
			135	82	23	29	1		

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Mol	Chain	Residues	Atoms	AltConf	Trace
7	AB	19	Total C N O S 135 82 23 29 1	0	0
7	AC	20	Total C N O S 139 84 24 30 1	0	0
7	AD	19	Total C N O S 135 82 23 29 1	0	0
7	AE	19	Total C N O S 135 82 23 29 1	0	0
7	AF	23	Total C N O S 158 97 27 33 1	0	0
7	AG	11	Total C N O 73 46 13 14	0	0
7	AH	11	Total C N O 73 46 13 14	0	0
7	AI	11	Total C N O 73 46 13 14	0	0
7	AJ	24	Total C N O S 163 100 28 34 1	0	0
7	AK	25	Total C N O S 169 104 29 35 1	0	0
7	AL	32	Total C N O S 220 134 38 46 2	0	0
7	AM	33	Total C N O S 224 136 39 47 2	0	0
7	AN	33	Total C N O S 224 136 39 47 2	0	0
7	AO	32	Total C N O S 220 134 38 46 2	0	0
7	Dz	148	Total C N O S 1171 719 215 235 2	0	0
7	D1	148	Total C N O S 1171 719 215 235 2	0	0
7	D2	148	Total C N O S 1171 719 215 235 2	0	0
7	D3	148	Total C N O S 1171 719 215 235 2	0	0
7	D4	148	Total C N O S 1171 719 215 235 2	0	0
7	D5	148	Total C N O S 1171 719 215 235 2	0	0
7	EG	148	Total C N O S 1171 719 215 235 2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	EH	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EI	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EJ	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EK	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EL	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EM	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EN	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EO	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EP	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EQ	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	ER	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	ES	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	ET	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EU	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EV	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EW	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	EX	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	EY	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	EZ	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Ea	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Eb	114	Total	C	N	O	S	0	0
			881	543	165	169	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ec	109	Total	C	N	O	S	0	0
			839	515	157	163	4		
7	Ed	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Ee	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Ef	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Eg	94	Total	C	N	O	S	0	0
			724	446	135	140	3		
7	Eh	103	Total	C	N	O	S	0	0
			803	496	153	151	3		
7	Ei	103	Total	C	N	O	S	0	0
			803	496	153	151	3		
7	Ej	103	Total	C	N	O	S	0	0
			803	496	153	151	3		
7	Ek	85	Total	C	N	O	S	0	0
			660	405	125	127	3		
7	El	92	Total	C	N	O	S	0	0
			704	432	132	137	3		
7	Em	91	Total	C	N	O	S	0	0
			695	427	131	134	3		
7	En	89	Total	C	N	O	S	0	0
			684	420	129	132	3		
7	Eo	92	Total	C	N	O	S	0	0
			704	432	132	137	3		
7	Ep	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Eq	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Er	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Es	105	Total	C	N	O	S	0	0
			802	494	147	157	4		
7	Et	114	Total	C	N	O	S	0	0
			881	543	165	169	4		
7	Eu	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	Ev	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	Ew	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ex	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	Ey	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	Ez	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	E1	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	E2	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	E3	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	E4	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		
7	E5	148	Total	C	N	O	S	0	0
			1171	719	215	235	2		

- Molecule 8 is a protein called Flagellar basal body rod protein FlgB.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	b	109	Total	C	N	O	S	0	0
			845	523	155	166	1		
8	c	107	Total	C	N	O	S	0	0
			835	518	153	163	1		
8	d	109	Total	C	N	O	S	0	0
			845	523	155	166	1		
8	e	108	Total	C	N	O	S	0	0
			837	519	154	163	1		
8	f	108	Total	C	N	O	S	0	0
			837	519	154	163	1		

- Molecule 9 is a protein called Flagellar basal-body rod protein FlgC.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	g	130	Total	C	N	O	S	0	0
			983	605	168	203	7		
9	h	130	Total	C	N	O	S	0	0
			983	605	168	203	7		
9	i	130	Total	C	N	O	S	0	0
			983	605	168	203	7		
9	j	130	Total	C	N	O	S	0	0
			983	605	168	203	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	k	130	Total	C	N	O	S	0	0
			983	605	168	203	7		
9	l	130	Total	C	N	O	S	0	0
			983	605	168	203	7		

- Molecule 10 is a protein called Flagellar basal-body rod protein FlgF.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	m	248	Total	C	N	O	S	0	0
			1879	1156	338	373	12		
10	n	248	Total	C	N	O	S	0	0
			1879	1156	338	373	12		
10	o	248	Total	C	N	O	S	0	0
			1879	1156	338	373	12		
10	p	248	Total	C	N	O	S	0	0
			1879	1156	338	373	12		
10	q	248	Total	C	N	O	S	0	0
			1879	1156	338	373	12		

- Molecule 11 is a protein called Flagellar hook-basal body complex protein FliE.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	r	72	Total	C	N	O	S	0	0
			560	345	99	113	3		
11	s	80	Total	C	N	O	S	0	0
			605	372	108	122	3		
11	t	80	Total	C	N	O	S	0	0
			605	372	108	122	3		
11	u	72	Total	C	N	O	S	0	0
			560	345	99	113	3		
11	v	72	Total	C	N	O	S	0	0
			560	345	99	113	3		
11	w	40	Total	C	N	O	S	0	0
			311	194	53	61	3		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
r	3	VAL	ILE	conflict	UNP A0A0H0Y9C1
s	3	VAL	ILE	conflict	UNP A0A0H0Y9C1
t	3	VAL	ILE	conflict	UNP A0A0H0Y9C1
u	3	VAL	ILE	conflict	UNP A0A0H0Y9C1

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Chain	Residue	Modelled	Actual	Comment	Reference
v	3	VAL	ILE	conflict	UNP A0A0H0Y9C1
w	3	VAL	ILE	conflict	UNP A0A0H0Y9C1

- Molecule 12 is a protein called Flagellar biosynthetic protein FlhB.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	x	71	Total	C	N	O	S	0	0
			552	370	83	95	4		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
x	87	THR	SER	conflict	UNP A0A0H0YB55

- Molecule 13 is a protein called Flagella basal-body protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	B7	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	CB	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	CJ	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	A8	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	CO	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	CT	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	CY	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Cd	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Ci	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Cn	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Cs	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Cx	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	C3	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	C8	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	B1	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	B6	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	BC	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	BH	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	BM	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	BR	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	BW	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Bb	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Bg	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Bl	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Bq	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		
13	Bv	352	Total	C	N	O	S	0	0
			2774	1735	483	544	12		

- Molecule 14 is a protein called FlgH.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	B8	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	CC	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	A4	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	A9	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	CK	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	CP	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	CU	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	CZ	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Ce	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Cj	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Co	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Ct	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Cy	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	C4	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	C9	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	B2	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	BD	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	BI	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	BN	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	BS	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	BX	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Bc	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Bh	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Bm	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Br	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		
14	Bw	221	Total	C	N	O	S	0	0
			1678	1038	288	349	3		

- Molecule 15 is a protein called Flagellar assembly lipoprotein FlgP.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	B9	11	Total	C	N	O	0	0
			97	61	18	18		
15	CD	11	Total	C	N	O	0	0
			97	61	18	18		
15	A0	11	Total	C	N	O	0	0
			97	61	18	18		
15	A5	11	Total	C	N	O	0	0
			97	61	18	18		
15	CL	11	Total	C	N	O	0	0
			97	61	18	18		
15	CQ	11	Total	C	N	O	0	0
			97	61	18	18		
15	CV	11	Total	C	N	O	0	0
			97	61	18	18		
15	Ca	11	Total	C	N	O	0	0
			97	61	18	18		
15	Cf	11	Total	C	N	O	0	0
			97	61	18	18		
15	Ck	11	Total	C	N	O	0	0
			97	61	18	18		
15	Cp	11	Total	C	N	O	0	0
			97	61	18	18		
15	Cu	11	Total	C	N	O	0	0
			97	61	18	18		
15	Cz	11	Total	C	N	O	0	0
			97	61	18	18		
15	C5	11	Total	C	N	O	0	0
			97	61	18	18		
15	C0	11	Total	C	N	O	0	0
			97	61	18	18		
15	B3	11	Total	C	N	O	0	0
			97	61	18	18		
15	BE	11	Total	C	N	O	0	0
			97	61	18	18		
15	BJ	11	Total	C	N	O	0	0
			97	61	18	18		
15	BO	11	Total	C	N	O	0	0
			97	61	18	18		
15	BT	11	Total	C	N	O	0	0
			97	61	18	18		
15	BY	11	Total	C	N	O	0	0
			97	61	18	18		

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Mol	Chain	Residues	Atoms				AltConf	Trace
15	Bd	11	Total	C	N	O	0	0
			97	61	18	18		
15	Bi	11	Total	C	N	O	0	0
			97	61	18	18		
15	Bn	11	Total	C	N	O	0	0
			97	61	18	18		
15	Bs	11	Total	C	N	O	0	0
			97	61	18	18		
15	Bx	11	Total	C	N	O	0	0
			97	61	18	18		

- Molecule 16 is a protein called FlgH.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	B0	13	Total	C	N	O	0	0
			65	39	13	13		
16	CE	13	Total	C	N	O	0	0
			65	39	13	13		
16	CH	13	Total	C	N	O	0	0
			65	39	13	13		
16	A6	13	Total	C	N	O	0	0
			65	39	13	13		
16	CM	13	Total	C	N	O	0	0
			65	39	13	13		
16	CR	13	Total	C	N	O	0	0
			65	39	13	13		
16	CW	13	Total	C	N	O	0	0
			65	39	13	13		
16	Cb	13	Total	C	N	O	0	0
			65	39	13	13		
16	Cg	13	Total	C	N	O	0	0
			65	39	13	13		
16	Cl	13	Total	C	N	O	0	0
			65	39	13	13		
16	Cq	13	Total	C	N	O	0	0
			65	39	13	13		
16	Cv	13	Total	C	N	O	0	0
			65	39	13	13		
16	C1	13	Total	C	N	O	0	0
			65	39	13	13		
16	C6	13	Total	C	N	O	0	0
			65	39	13	13		

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Mol	Chain	Residues	Atoms	AltConf	Trace
16	B4	13	Total C N O 65 39 13 13	0	0
16	BA	13	Total C N O 65 39 13 13	0	0
16	BF	13	Total C N O 65 39 13 13	0	0
16	BK	13	Total C N O 65 39 13 13	0	0
16	BP	13	Total C N O 65 39 13 13	0	0
16	BU	13	Total C N O 65 39 13 13	0	0
16	BZ	13	Total C N O 65 39 13 13	0	0
16	Be	13	Total C N O 65 39 13 13	0	0
16	Bj	13	Total C N O 65 39 13 13	0	0
16	Bo	13	Total C N O 65 39 13 13	0	0
16	Bt	13	Total C N O 65 39 13 13	0	0
16	By	13	Total C N O 65 39 13 13	0	0
16	D0	13	Total C N O 65 39 13 13	0	0

- Molecule 17 is a protein called FlgI.

Mol	Chain	Residues	Atoms	AltConf	Trace
17	CA	287	Total C N O S 2102 1324 371 400 7	0	0
17	CF	287	Total C N O S 2102 1324 371 400 7	0	0
17	CI	287	Total C N O S 2102 1324 371 400 7	0	0
17	A7	287	Total C N O S 2102 1324 371 400 7	0	0
17	CN	287	Total C N O S 2102 1324 371 400 7	0	0
17	CS	287	Total C N O S 2102 1324 371 400 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
17	CX	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Cc	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Ch	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Cm	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Cr	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Cw	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	C2	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	C7	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	B5	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	BB	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	BG	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	BL	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	BQ	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	BV	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Ba	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Bf	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Bk	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Bp	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Bu	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		
17	Bz	287	Total	C	N	O	S	0	0
			2102	1324	371	400	7		

- Molecule 18 is a protein called Component of sodium-driven polar flagellar motor.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	CG	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DA	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DD	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DE	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DH	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DI	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DL	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DM	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DP	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DQ	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DT	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DU	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	DX	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	DY	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	Db	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Dc	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	Df	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Dg	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	Dj	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Dk	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	Dn	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Do	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
18	Dr	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Ds	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		
18	Dv	270	Total	C	N	O	S	0	0
			2183	1372	394	410	7		
18	Dw	271	Total	C	N	O	S	0	0
			2190	1377	395	411	7		

- Molecule 19 is a protein called Sodium-type flagellar motor component.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	DB	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DC	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DF	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DG	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DJ	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DK	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DN	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DO	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DR	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DS	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DV	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DW	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	DZ	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Da	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dd	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
19	De	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dh	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Di	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dl	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dm	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dp	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dq	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dt	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Du	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dx	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		
19	Dy	179	Total	C	N	O	S	0	0
			1471	927	270	269	5		

- Molecule 20 is a protein called FlgB-Dc.

Mol	Chain	Residues	Atoms				AltConf	Trace
20	D6	12	Total	C	N	O	0	0
			58	34	12	12		
20	D7	9	Total	C	N	O	0	0
			43	25	9	9		
20	D8	10	Total	C	N	O	0	0
			48	28	10	10		
20	D9	10	Total	C	N	O	0	0
			48	28	10	10		

- Molecule 21 is a protein called FliE-helix 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	EA	17	Total	C	N	O	0	0
			84	50	17	17		
21	EB	17	Total	C	N	O	0	0
			84	50	17	17		

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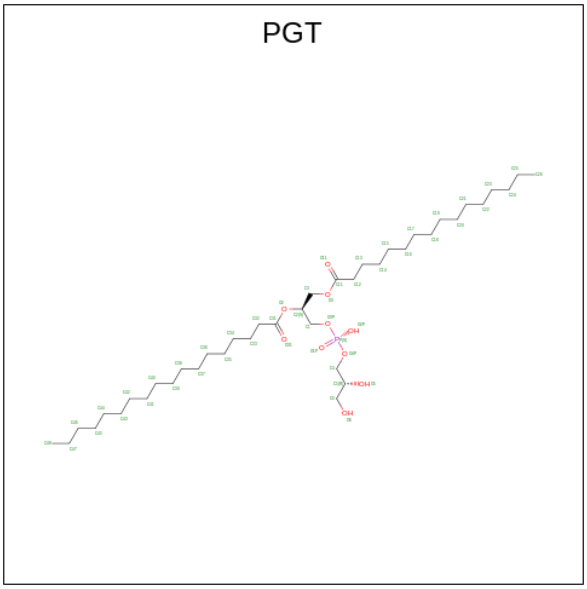
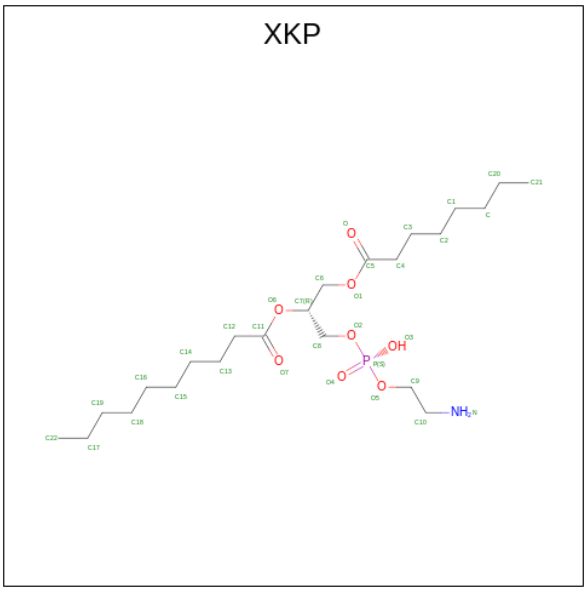
Mol	Chain	Residues	Atoms				AltConf	Trace
21	EC	17	Total	C	N	O	0	0
			84	50	17	17		
21	ED	17	Total	C	N	O	0	0
			84	50	17	17		
21	EE	17	Total	C	N	O	0	0
			84	50	17	17		
21	EF	17	Total	C	N	O	0	0
			84	50	17	17		

- Molecule 22 is (1S)-2-{[{[(2R)-2,3-DIHYDROXYPROPYL]OXY}(HYDROXY)PHOSPHORYL]OXY}-1-[(PALMITOYLOXY)METHYL]ETHYL STEARATE (CCD ID: PGT) (formula: $C_{40}H_{79}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
22	2	1	Total	C	O	P	0
			51	40	10	1	
22	e	1	Total	C	O	P	0
			51	40	10	1	
22	t	1	Total	C	O	P	0
			51	40	10	1	
22	v	1	Total	C	O	P	0
			51	40	10	1	

- Molecule 23 is (11R,14S)-17-amino-14-hydroxy-8,14-dioxo-9,13,15-trioxa-14lambda 5 -phosphaheptadecan-11-yl decanoate (CCD ID: XKP) (formula: $C_{23}H_{46}NO_8P$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
23	e	1	Total	C	N	O	P	0
			32	22	1	8	1	
23	s	1	Total	C	N	O	P	0
			32	22	1	8	1	
23	t	1	Total	C	N	O	P	0
			32	22	1	8	1	
23	u	1	Total	C	N	O	P	0
			32	22	1	8	1	
23	v	1	Total	C	N	O	P	0
			32	22	1	8	1	

3 Residue-property plots (i)

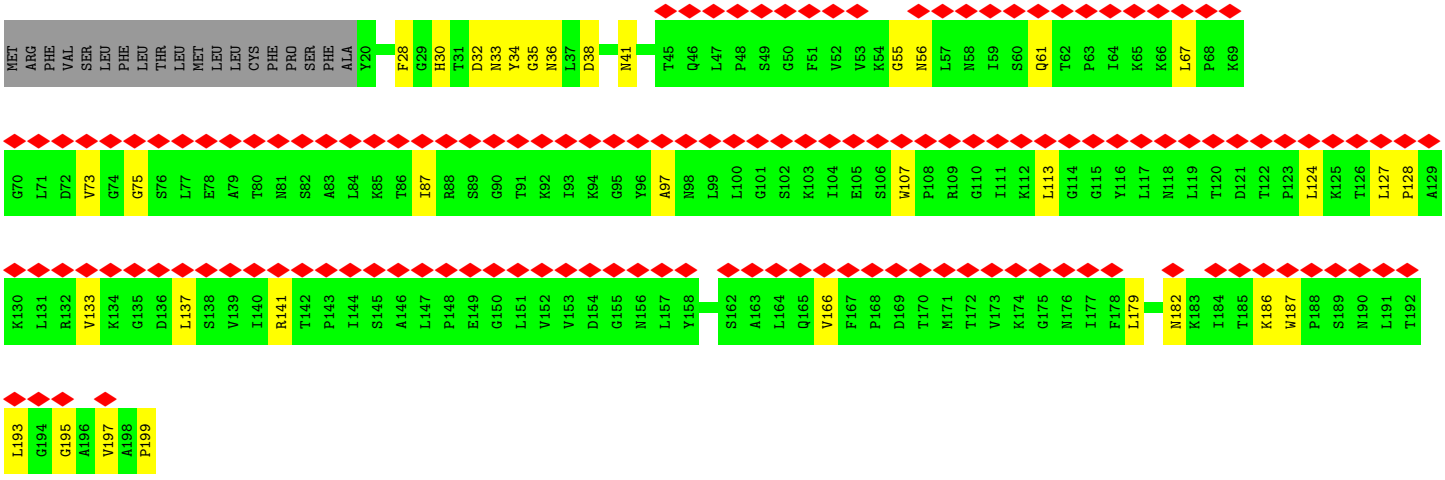
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: LRR

Chain 0:

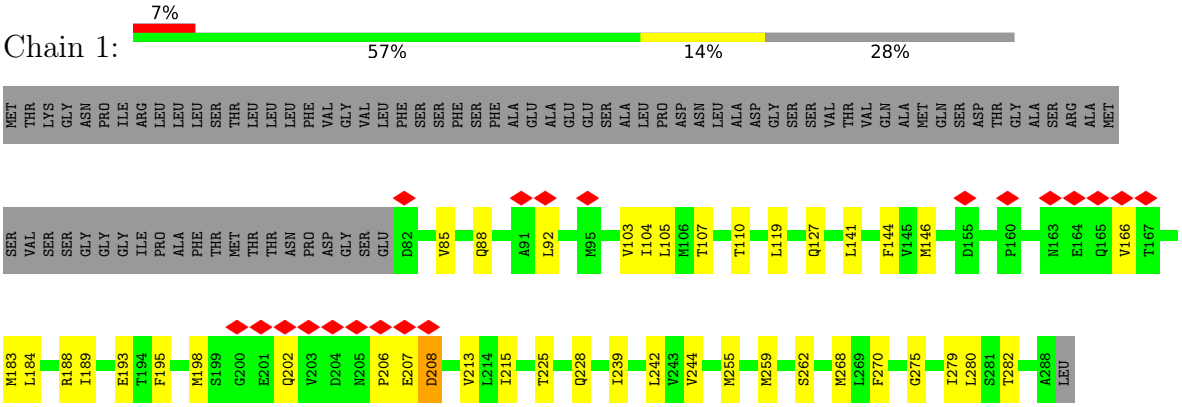
• Molecule 1: LRR

Chain 9:



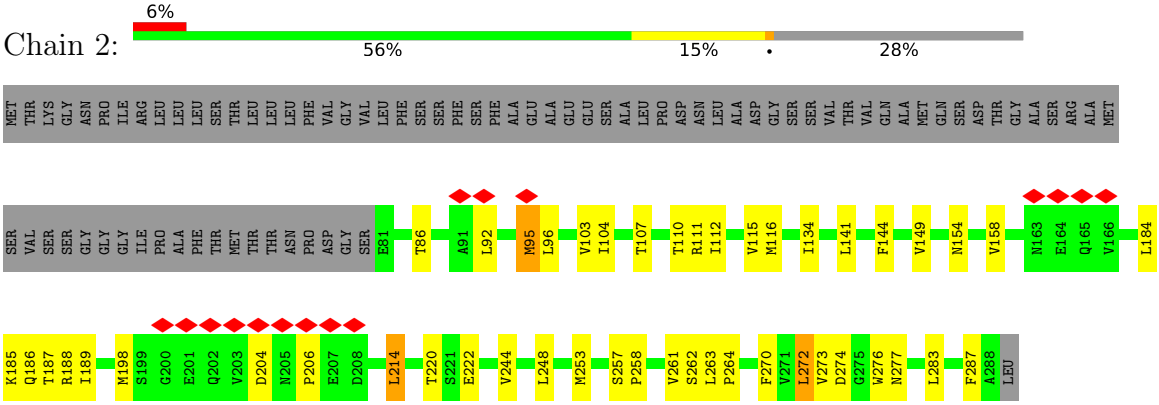
• Molecule 2: Flagellar biosynthetic protein FliP

Chain 1:



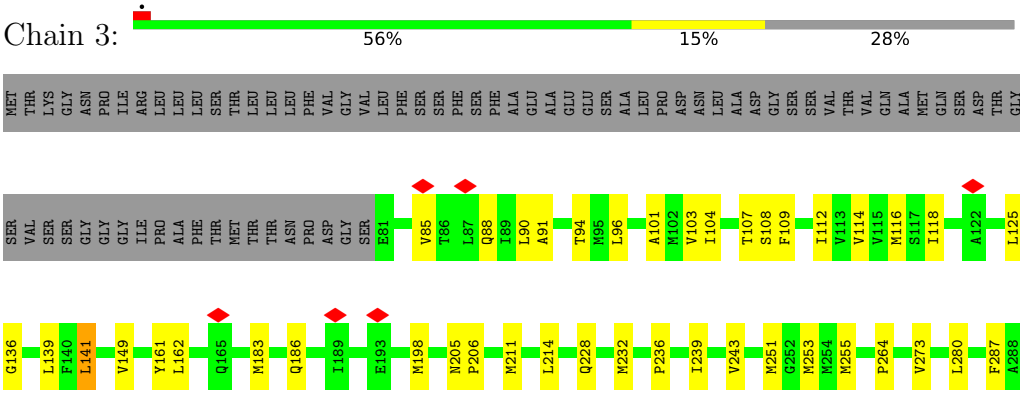
• Molecule 2: Flagellar biosynthetic protein FliP

Chain 2:



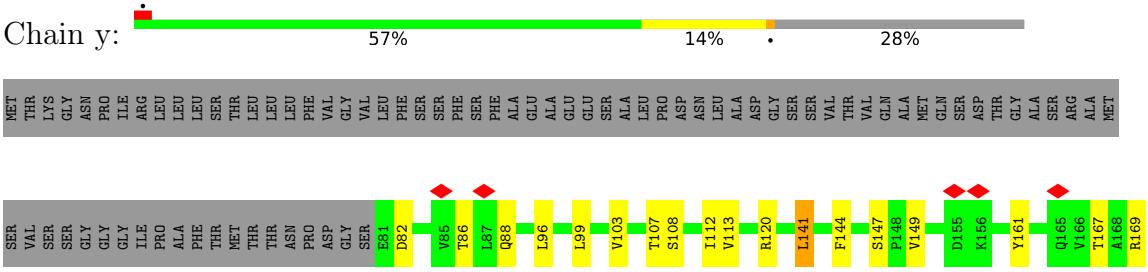
• Molecule 2: Flagellar biosynthetic protein FliP

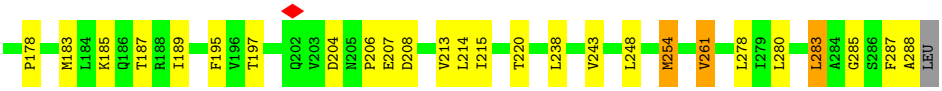
Chain 3:



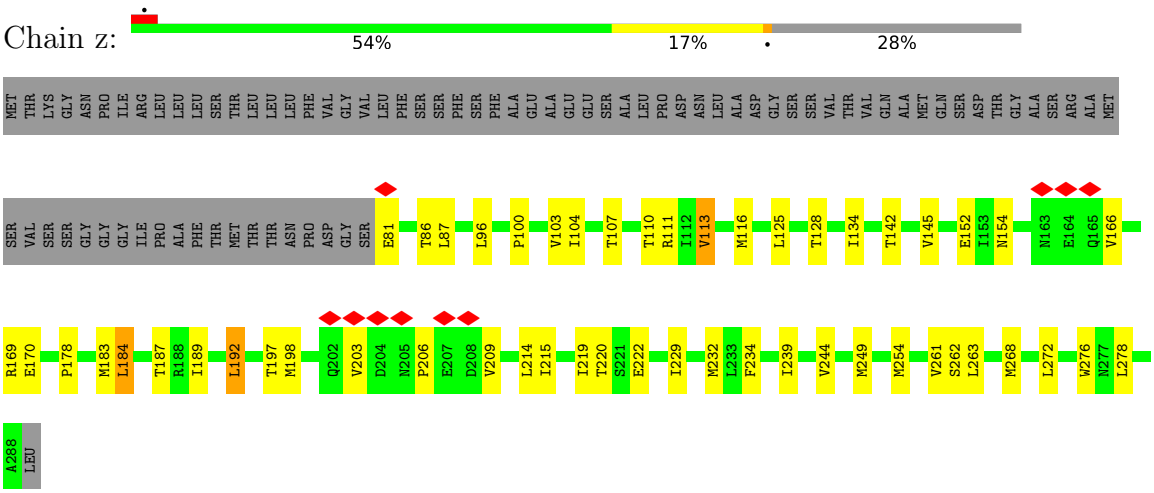
• Molecule 2: Flagellar biosynthetic protein FliP

Chain y:

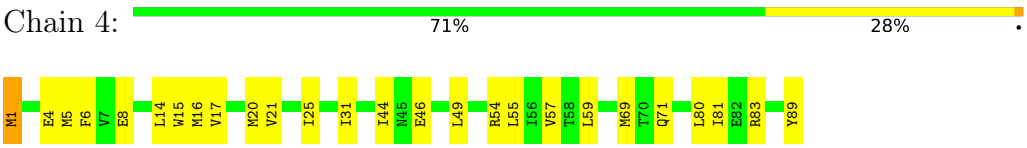




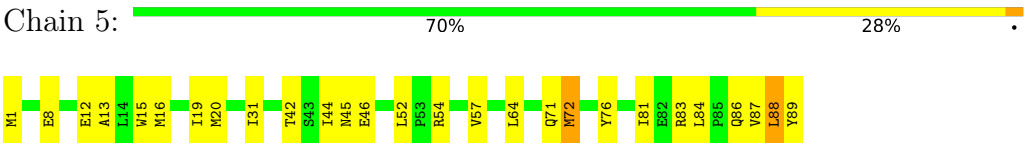
• Molecule 2: Flagellar biosynthetic protein FliP



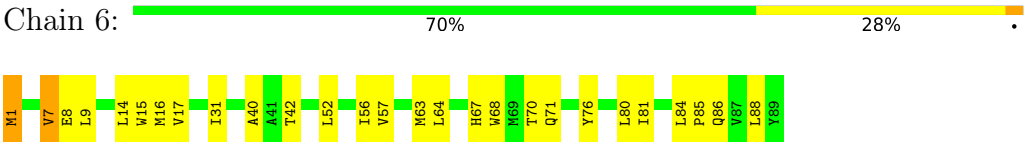
• Molecule 3: Flagellar biosynthetic protein FliQ



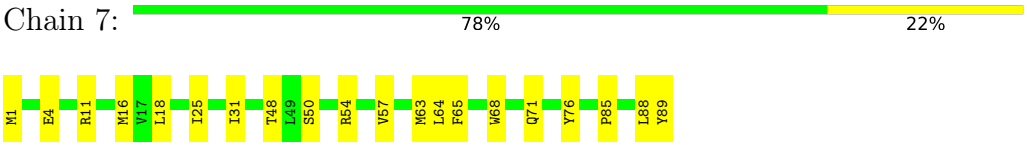
• Molecule 3: Flagellar biosynthetic protein FliQ



• Molecule 3: Flagellar biosynthetic protein FliQ

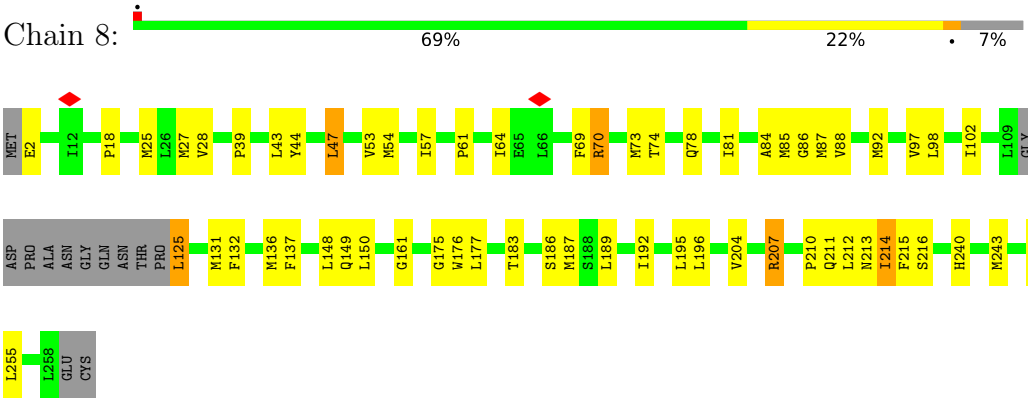


• Molecule 3: Flagellar biosynthetic protein FliQ



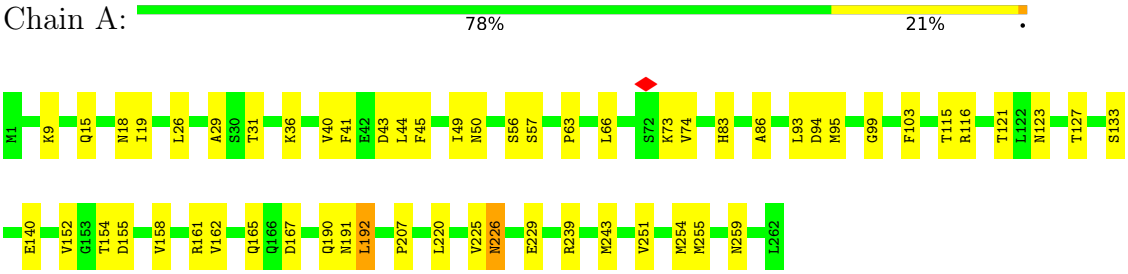
• Molecule 4: Flagellar biosynthetic protein FliR

Chain 8:



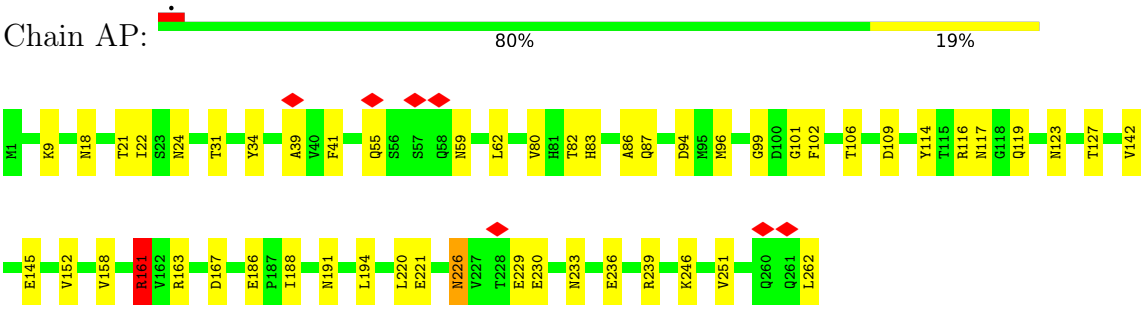
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain A:



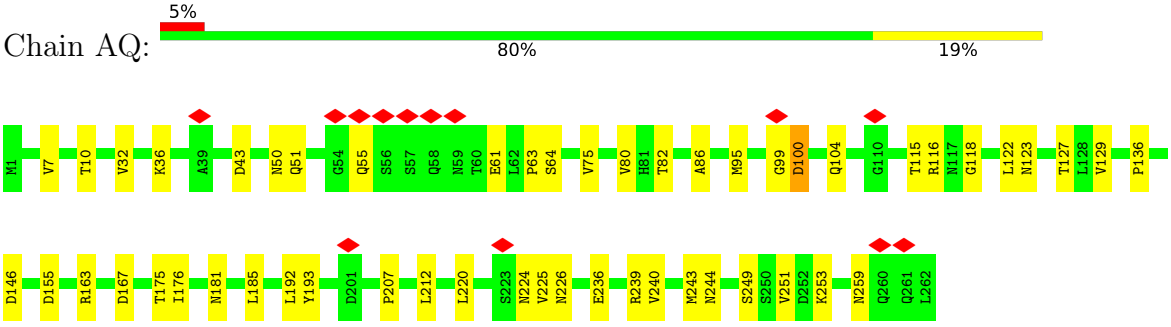
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AP:



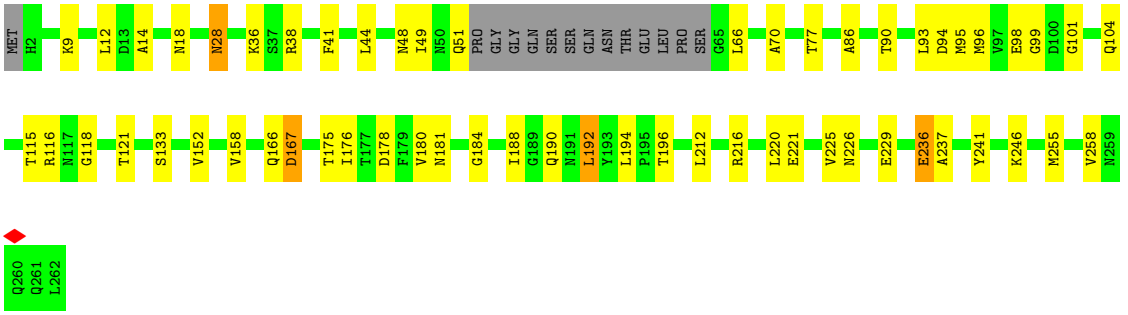
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AQ:



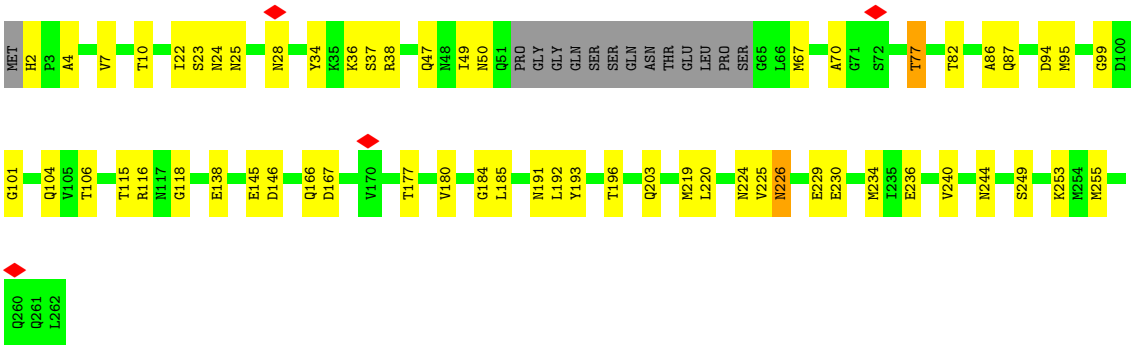
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AR:



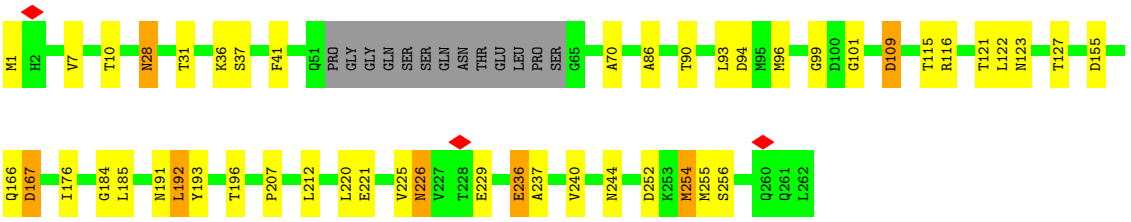
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AS:



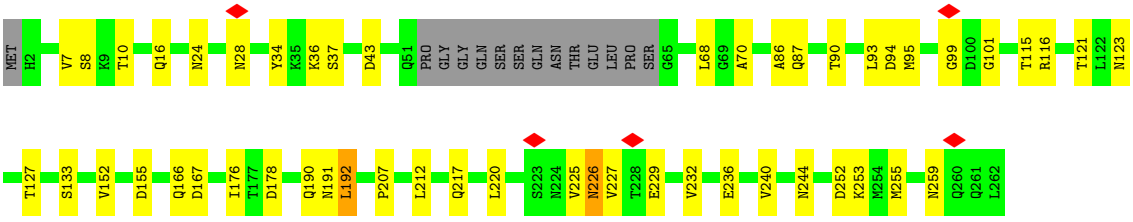
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AT:



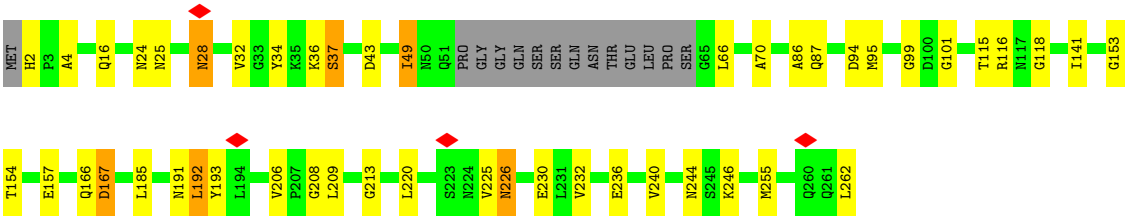
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AU:

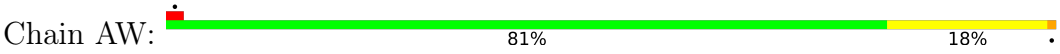


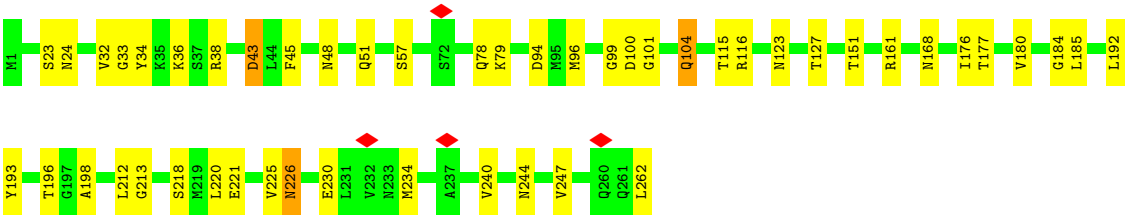
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain AV:

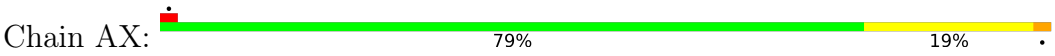


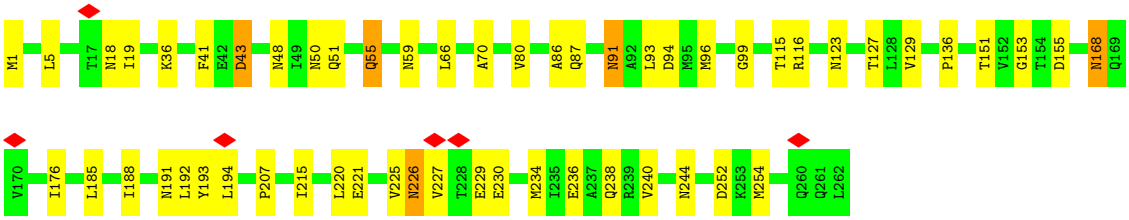
• Molecule 5: Flagellar basal-body rod protein FlgG



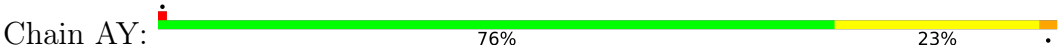


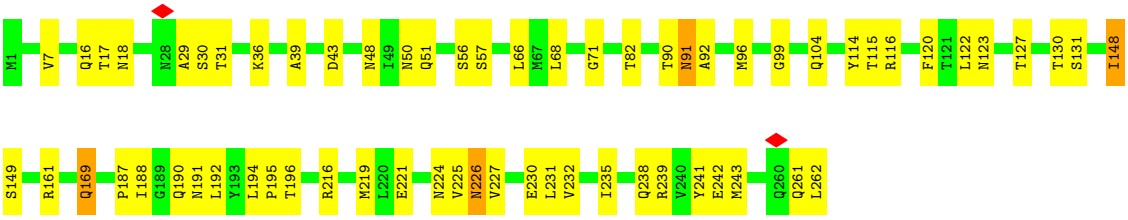
• Molecule 5: Flagellar basal-body rod protein FlgG



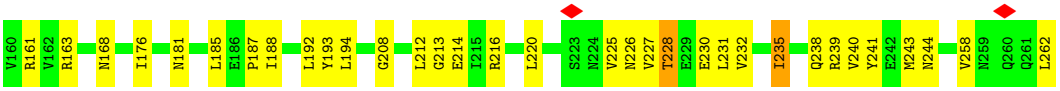


• Molecule 5: Flagellar basal-body rod protein FlgG



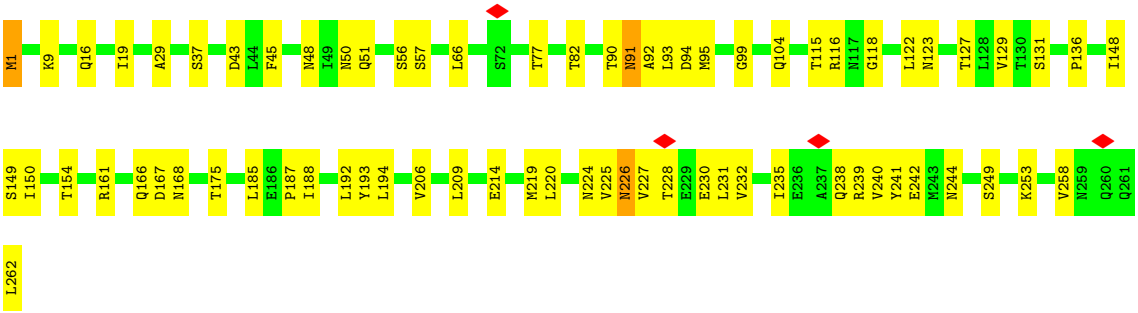


• Molecule 5: Flagellar basal-body rod protein FlgG



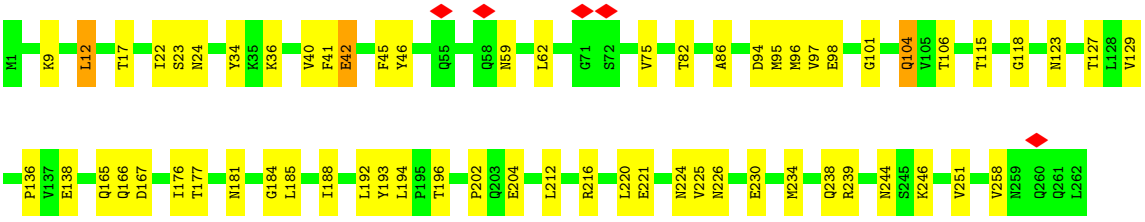
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain Aa:



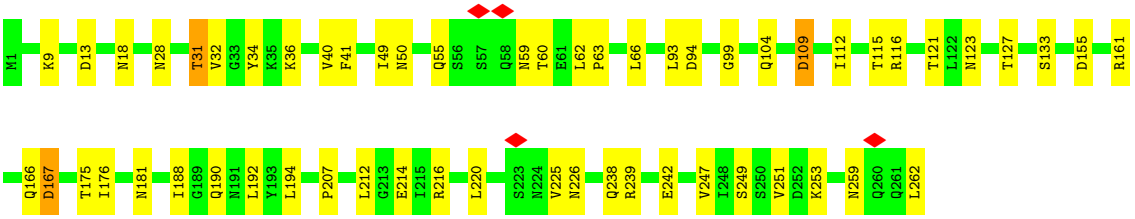
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain B:



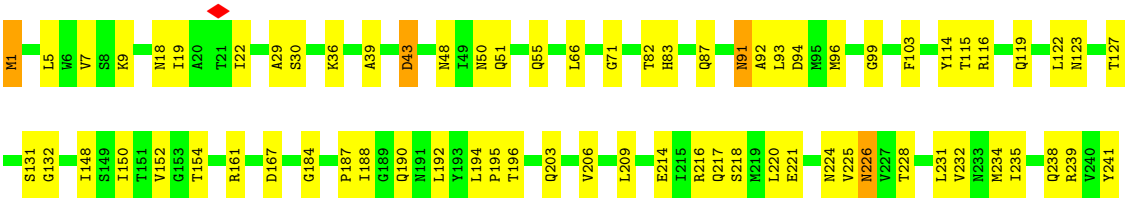
• Molecule 5: Flagellar basal-body rod protein FlgG

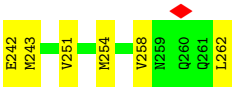
Chain C:



• Molecule 5: Flagellar basal-body rod protein FlgG

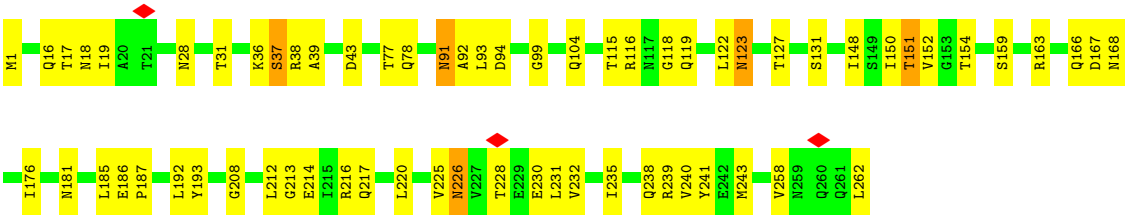
Chain P:





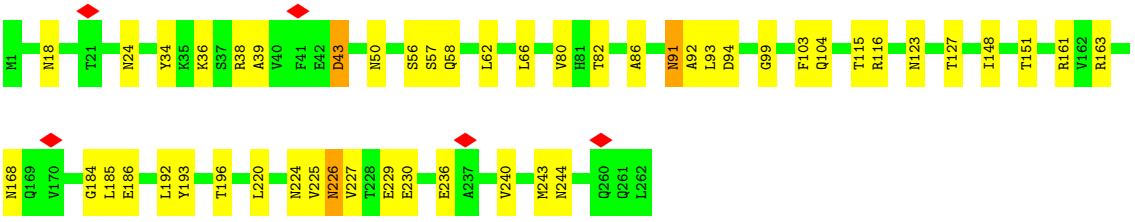
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain Q:



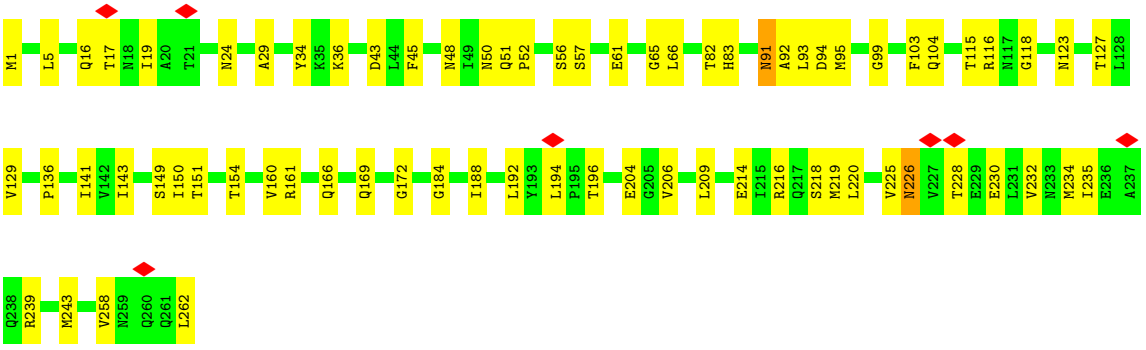
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain R:



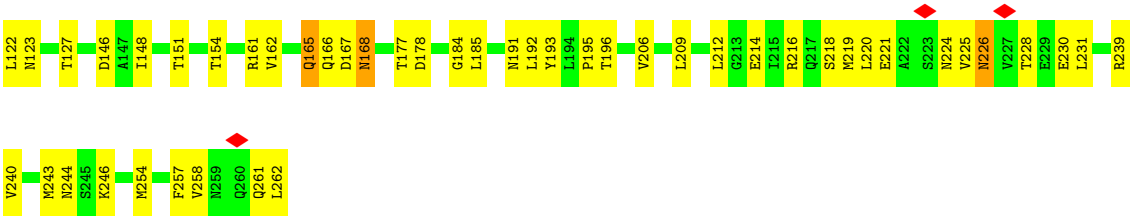
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain S:



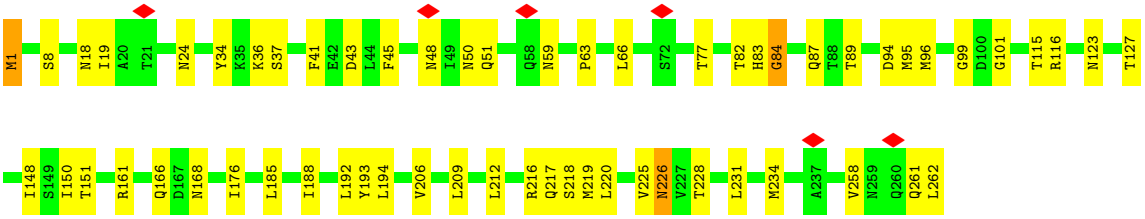
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain T:



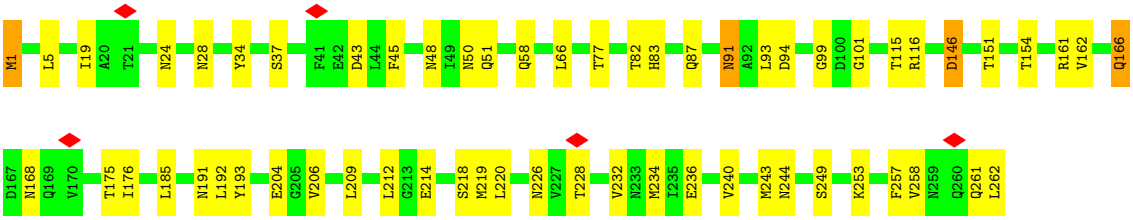
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain U:



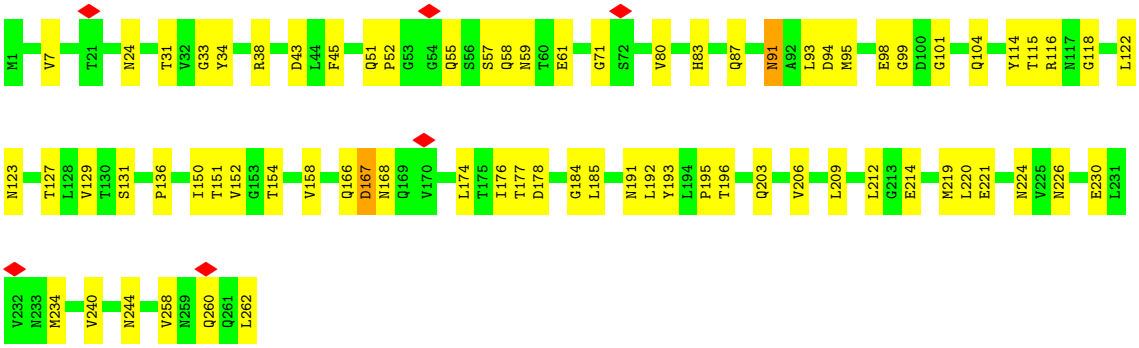
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain V:



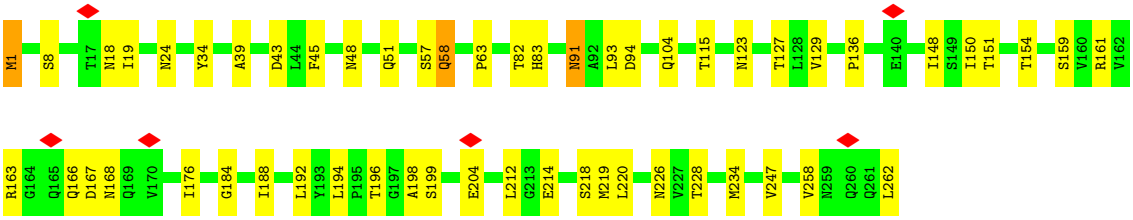
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain W:



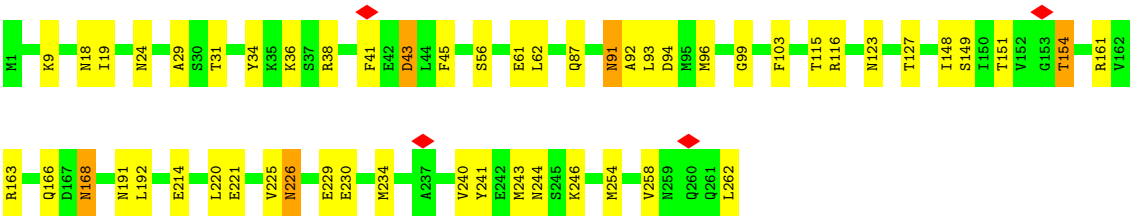
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain X:



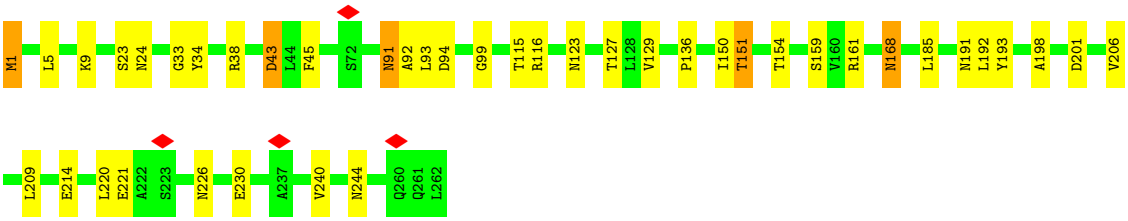
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain Y:



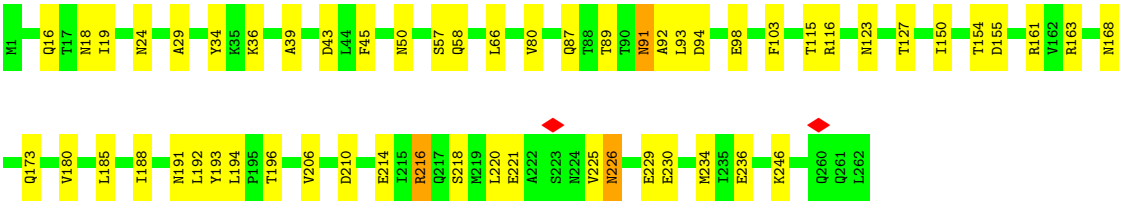
• Molecule 5: Flagellar basal-body rod protein FlgG

Chain Z:



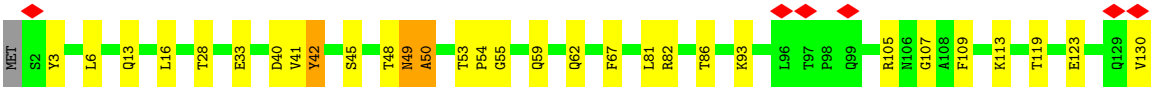
• Molecule 5: Flagellar basal-body rod protein FlgG

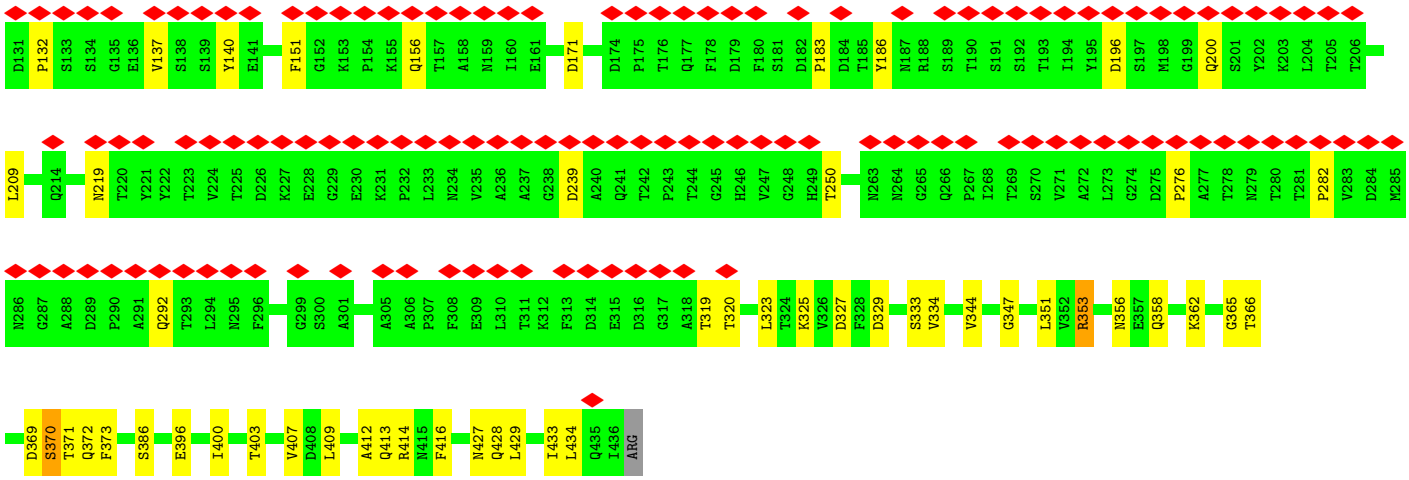
Chain a:



• Molecule 6: Flagellar hook protein FlgE

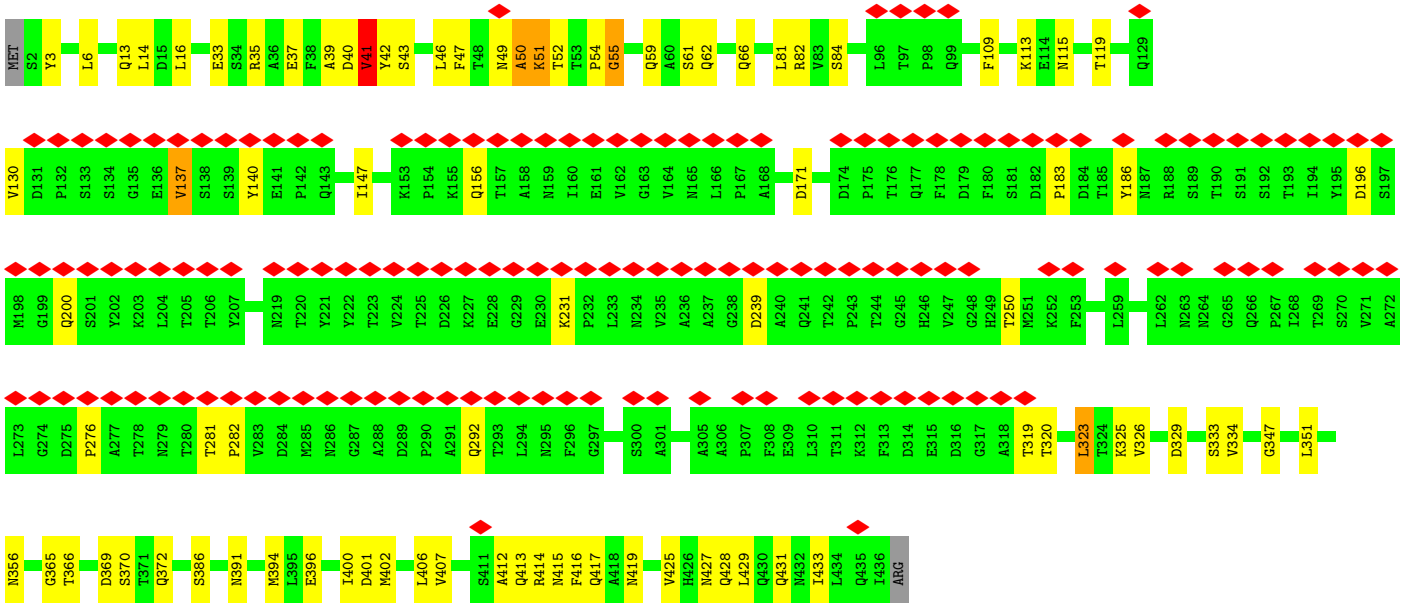
Chain A1:





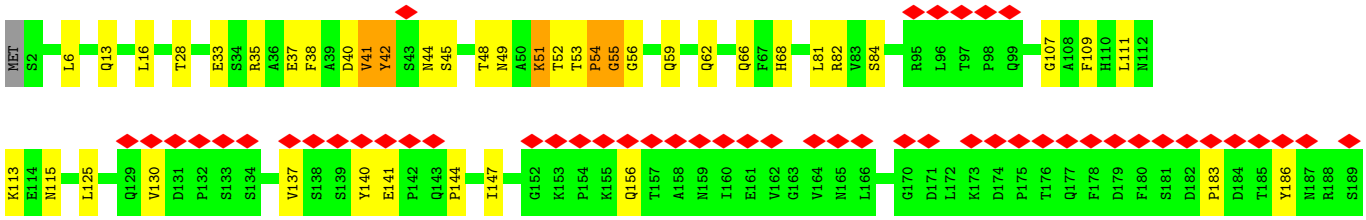
• Molecule 6: Flagellar hook protein FlgE

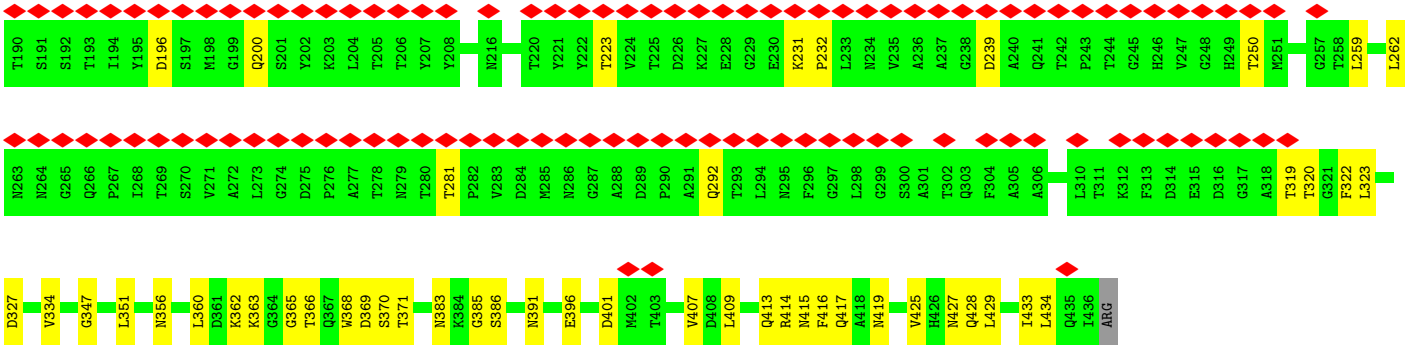
Chain A2:



• Molecule 6: Flagellar hook protein FlgE

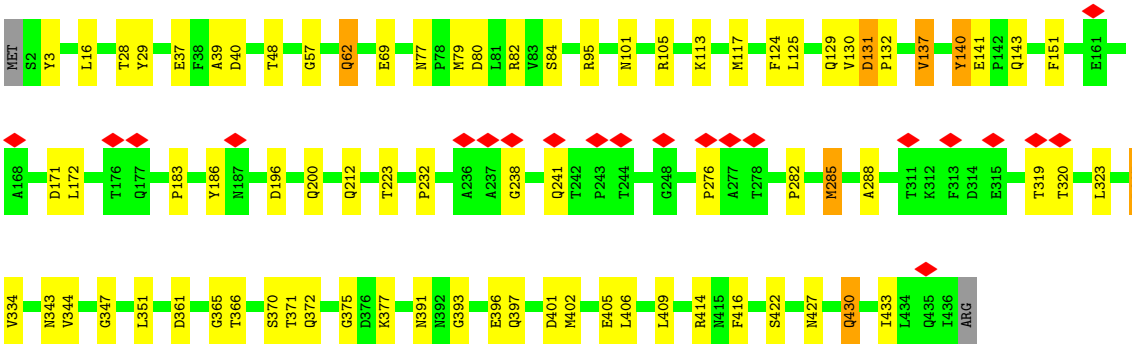
Chain A3:





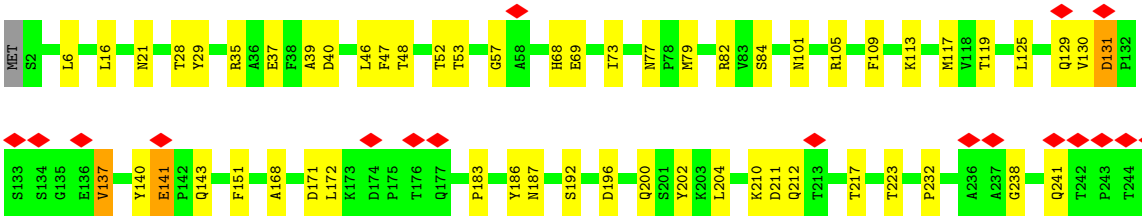
• Molecule 6: Flagellar hook protein FlgE

Chain Ab:



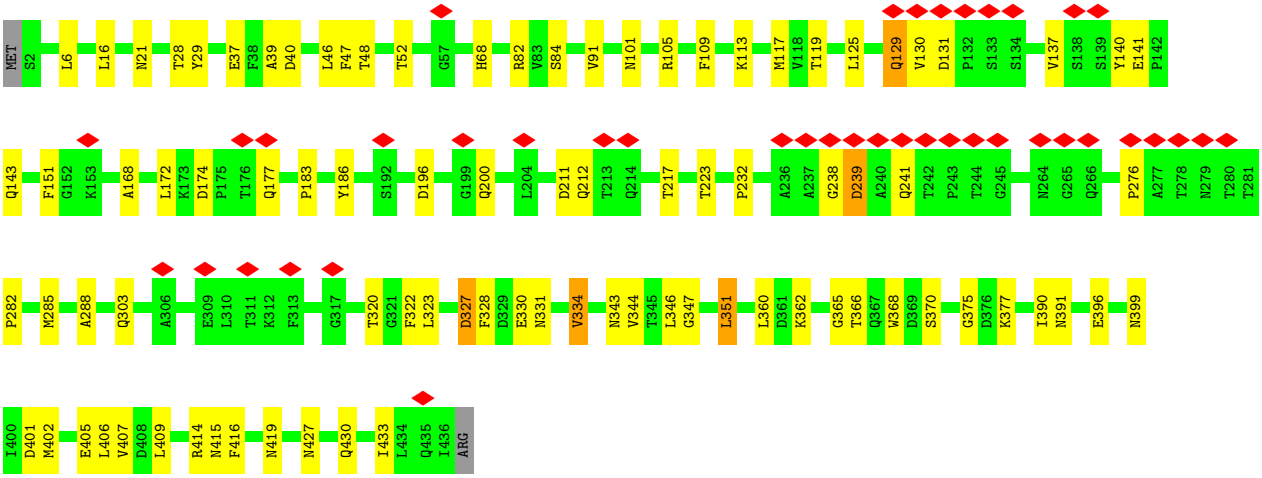
• Molecule 6: Flagellar hook protein FlgE

Chain Ac:



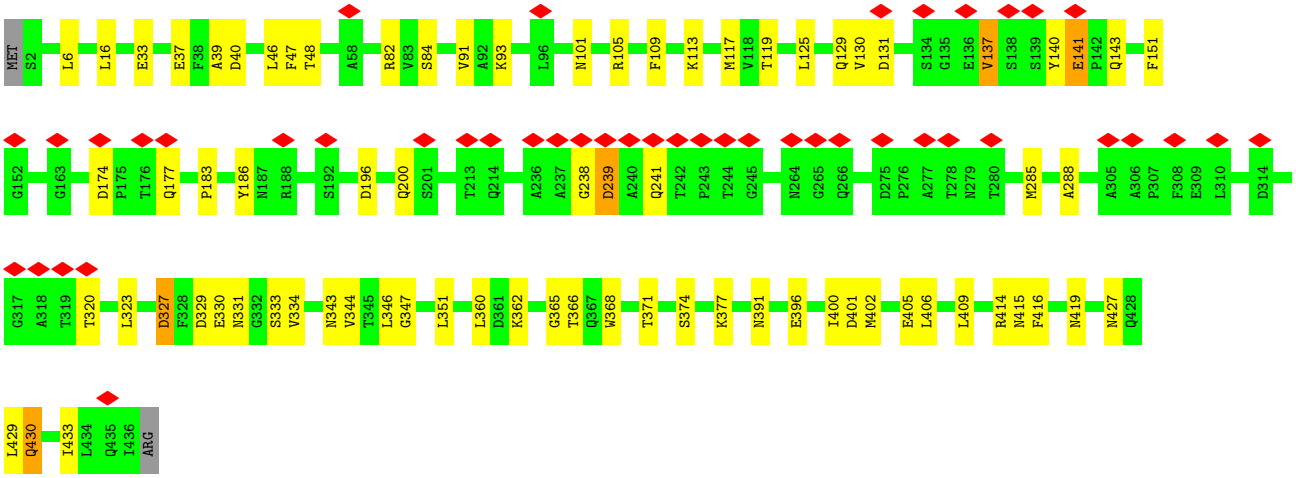
• Molecule 6: Flagellar hook protein FlgE

Chain Ad:



• Molecule 6: Flagellar hook protein FlgE

Chain Ae:



• Molecule 6: Flagellar hook protein FlgE

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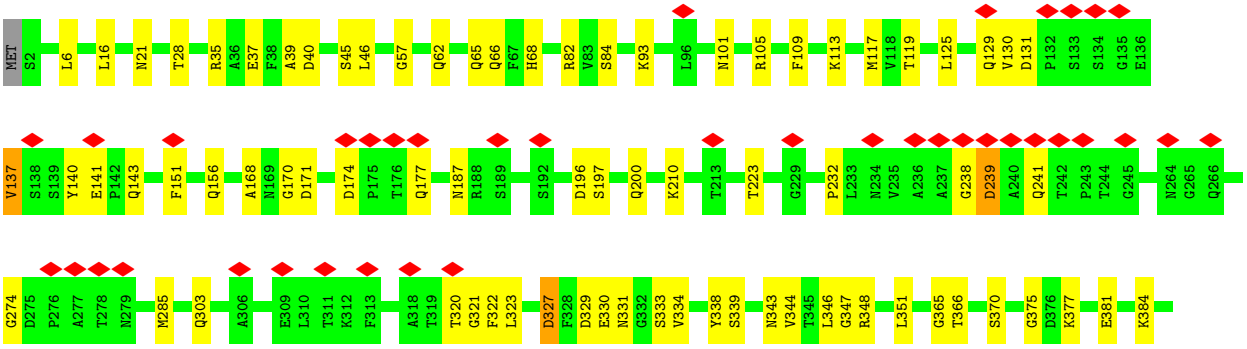
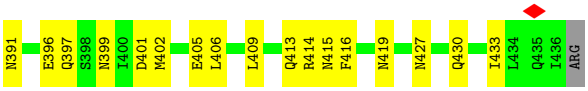
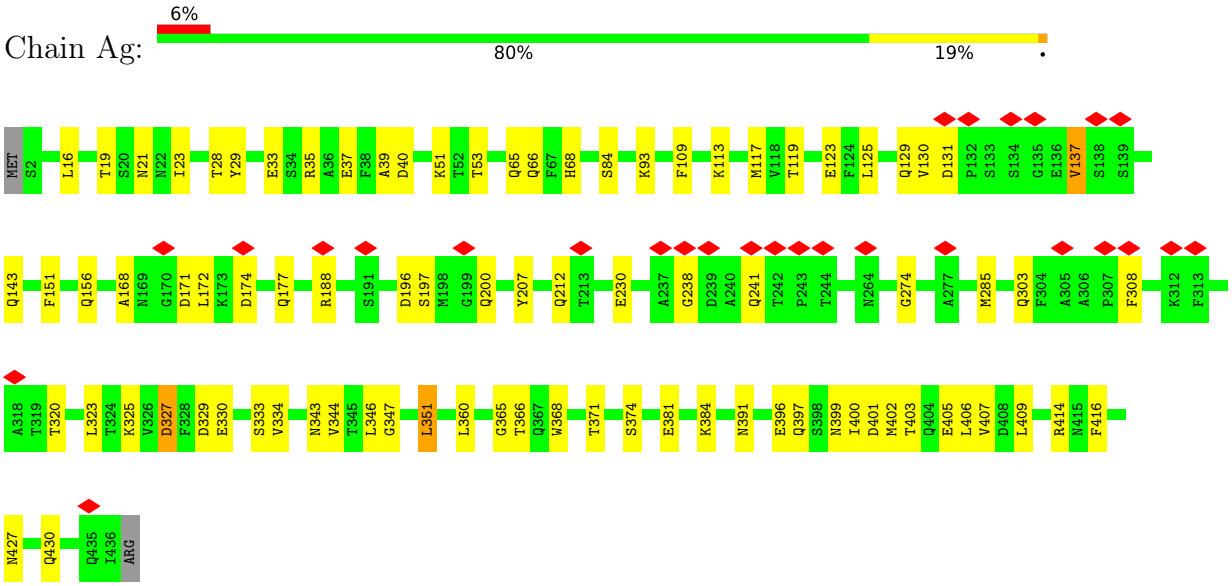
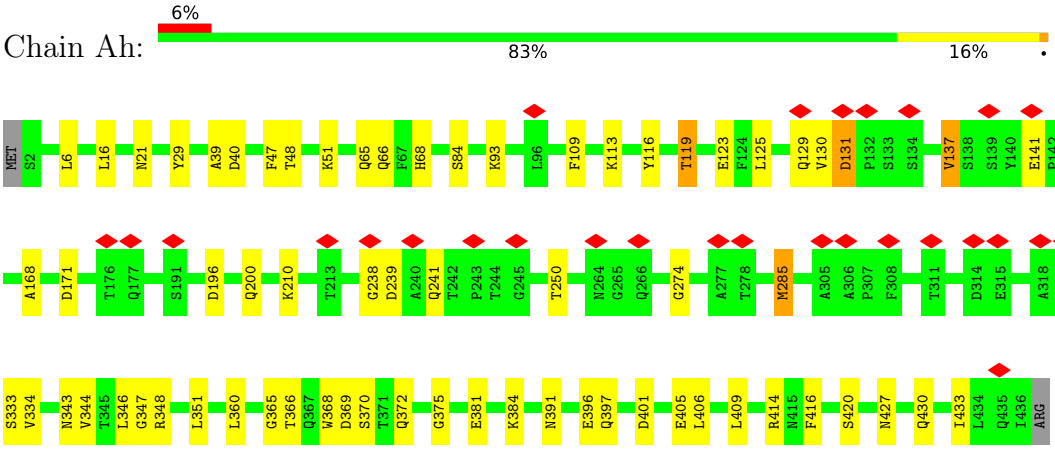




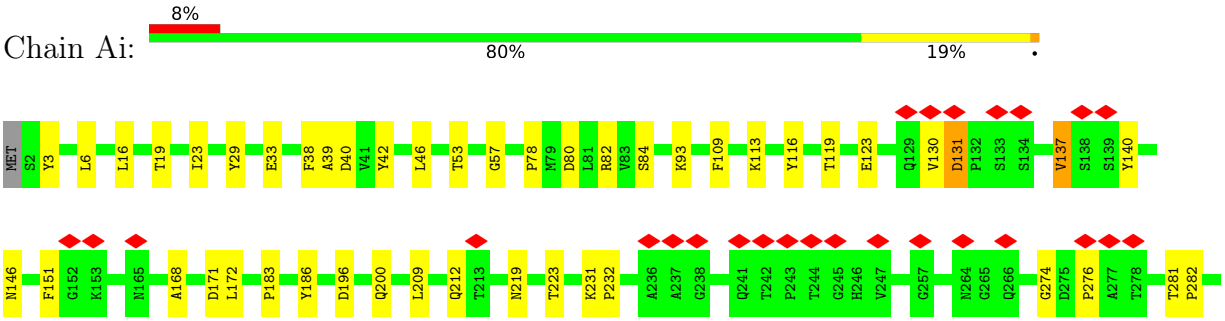
• Molecule 6: Flagellar hook protein FlgE

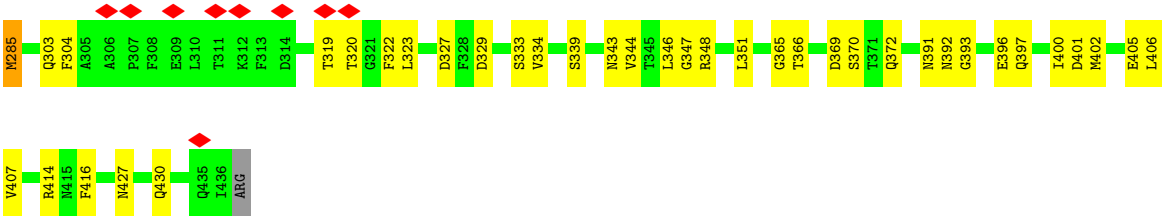


• Molecule 6: Flagellar hook protein FlgE

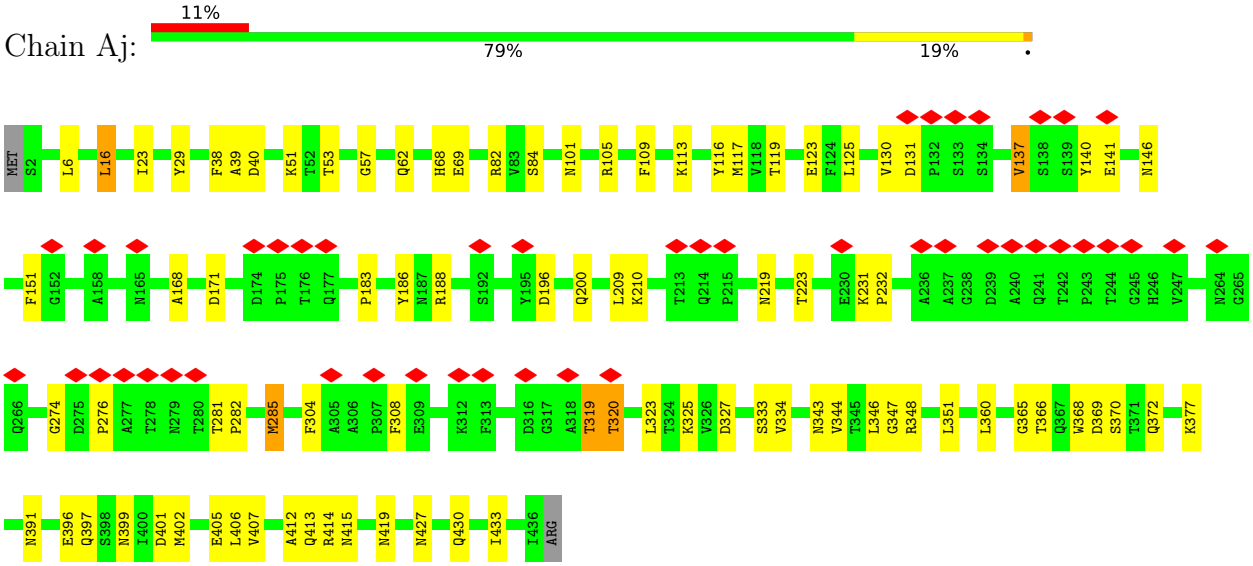


• Molecule 6: Flagellar hook protein FlgE

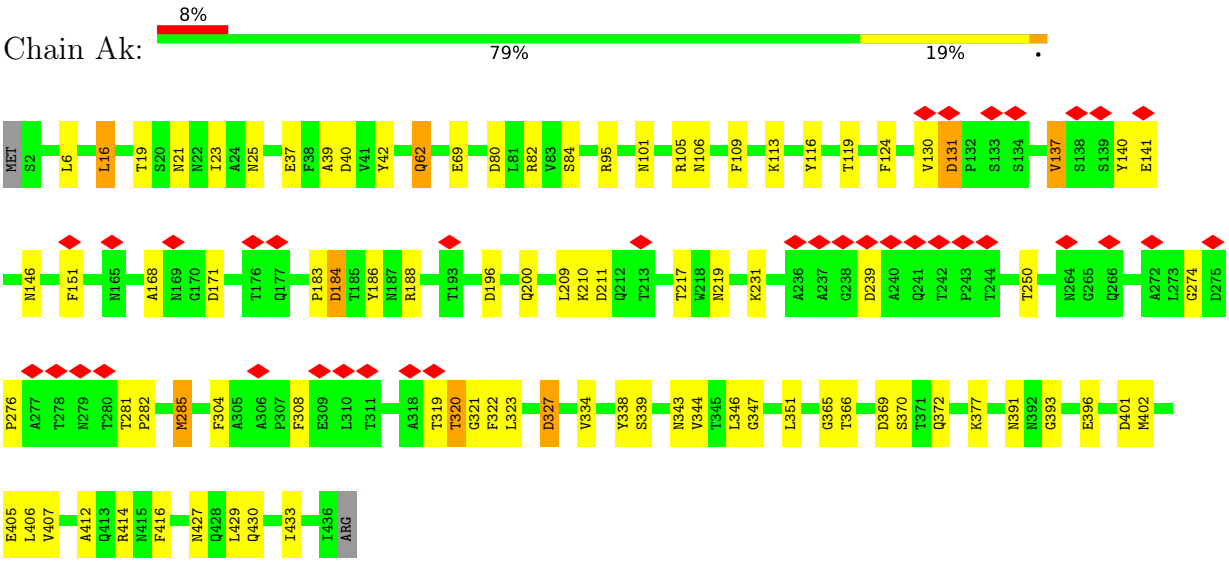




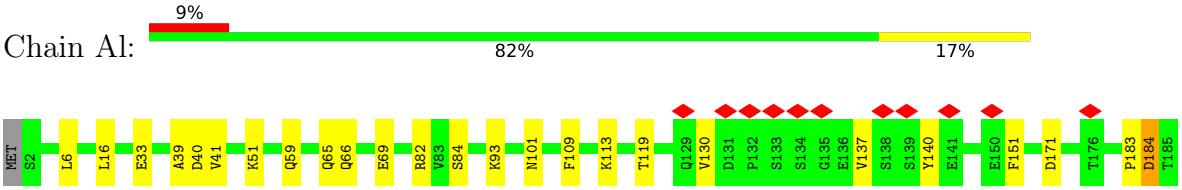
• Molecule 6: Flagellar hook protein FlgE

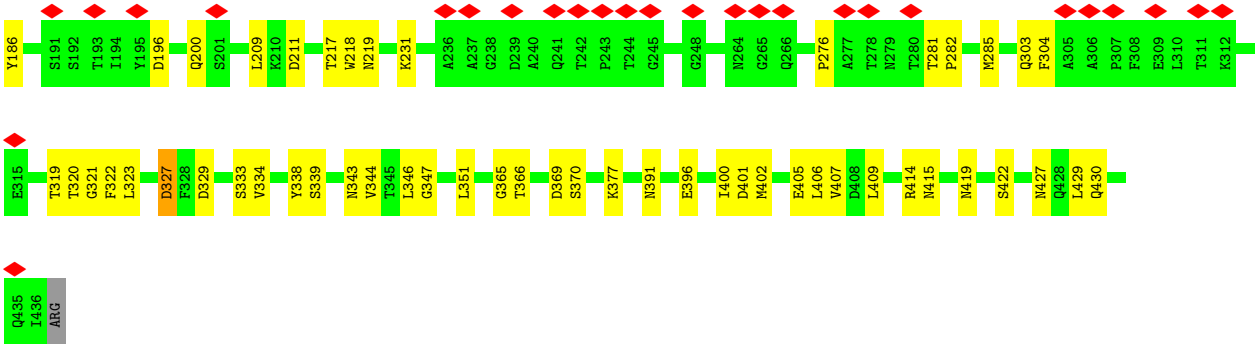


• Molecule 6: Flagellar hook protein FlgE

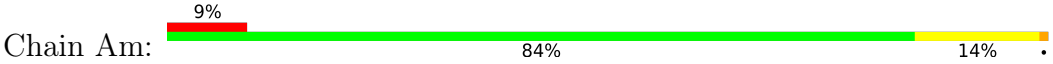


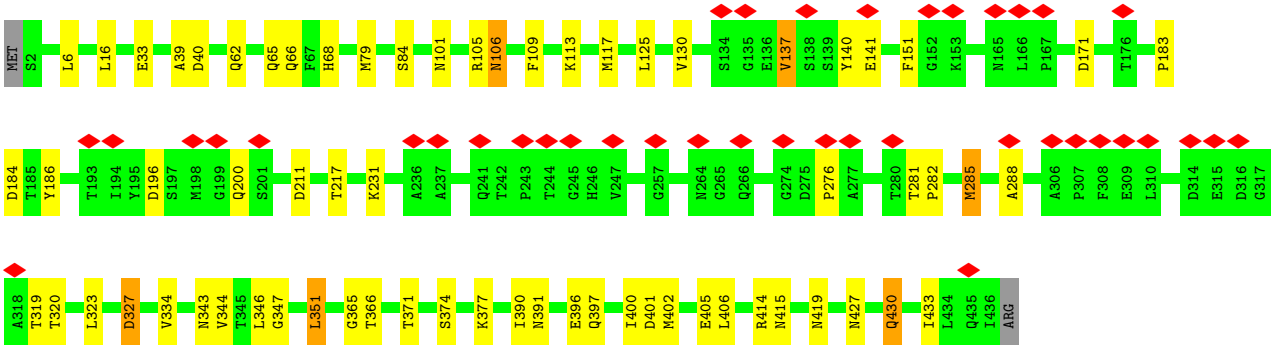
• Molecule 6: Flagellar hook protein FlgE



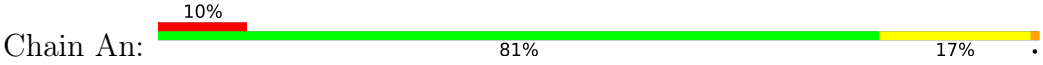


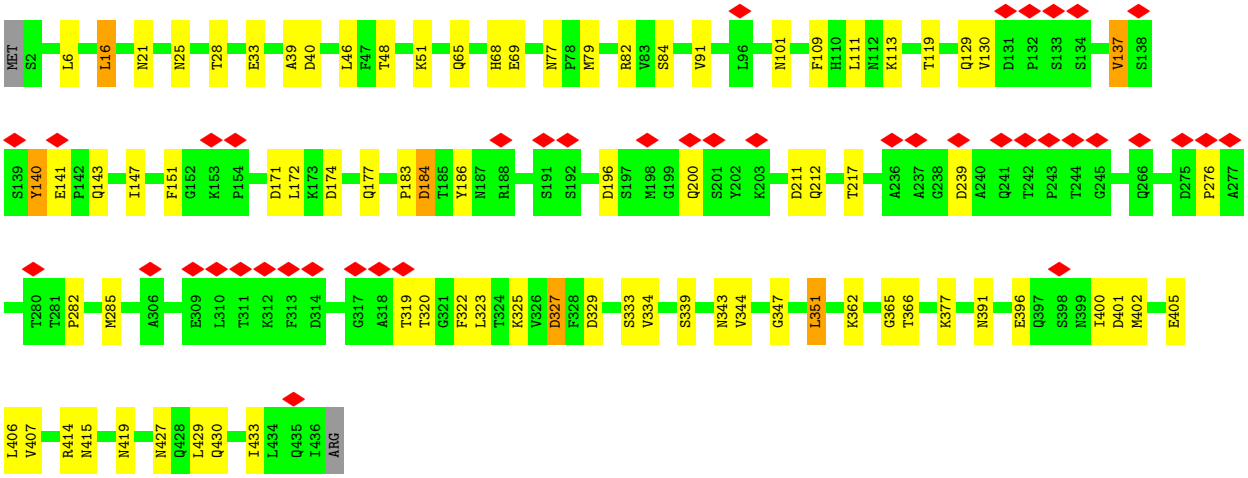
• Molecule 6: Flagellar hook protein FlgE



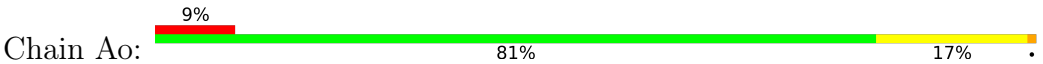


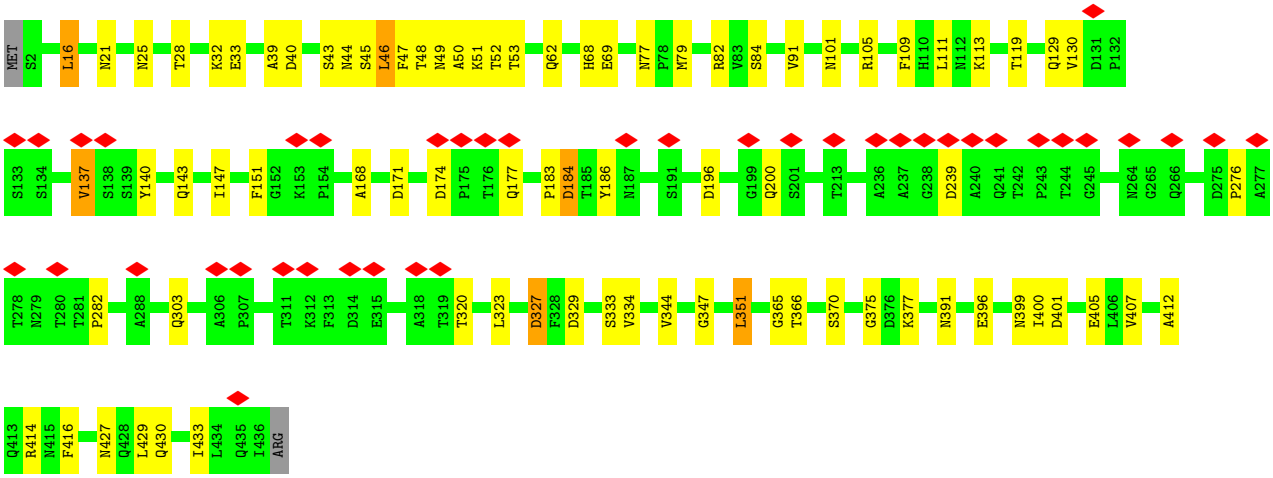
• Molecule 6: Flagellar hook protein FlgE





• Molecule 6: Flagellar hook protein FlgE





• Molecule 6: Flagellar hook protein FlgE

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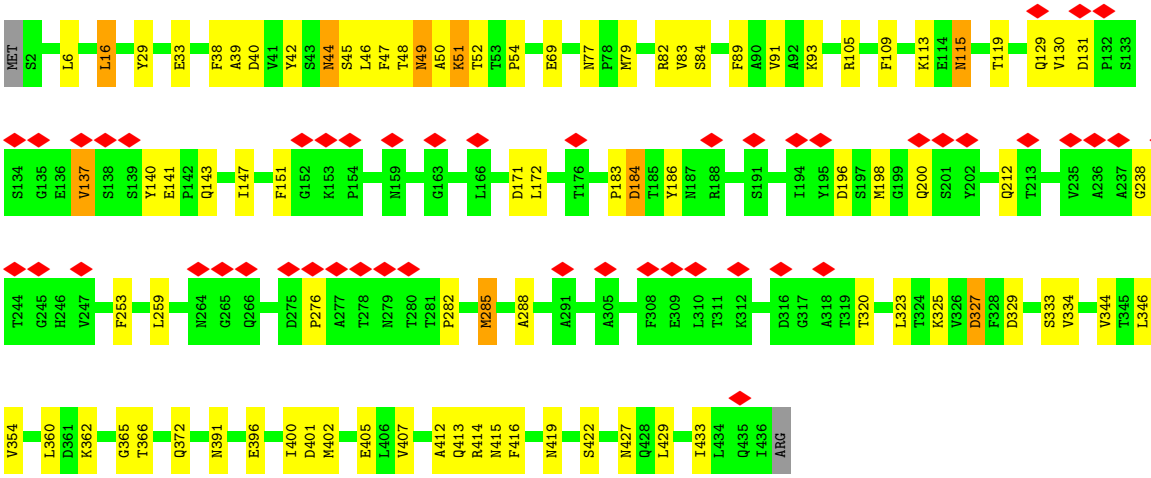

• Molecule 6: Flagellar hook protein FlgE

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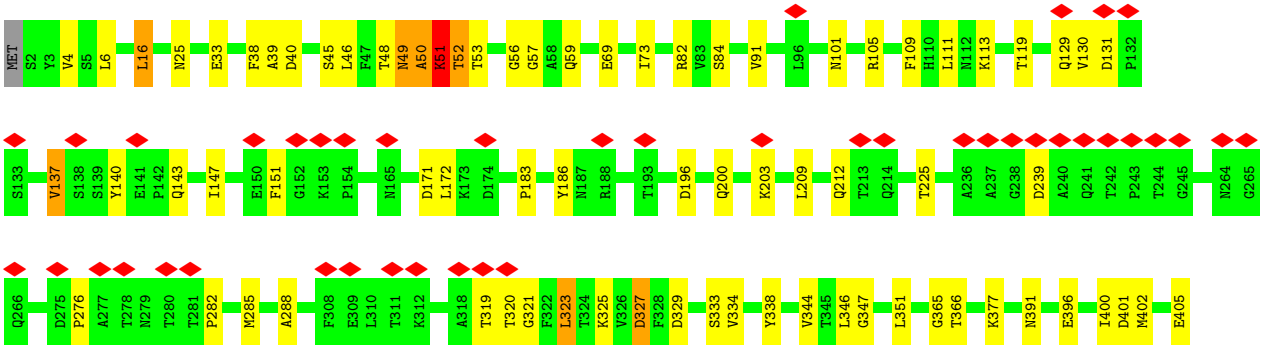
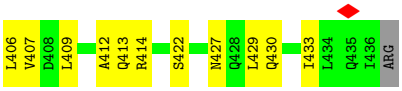
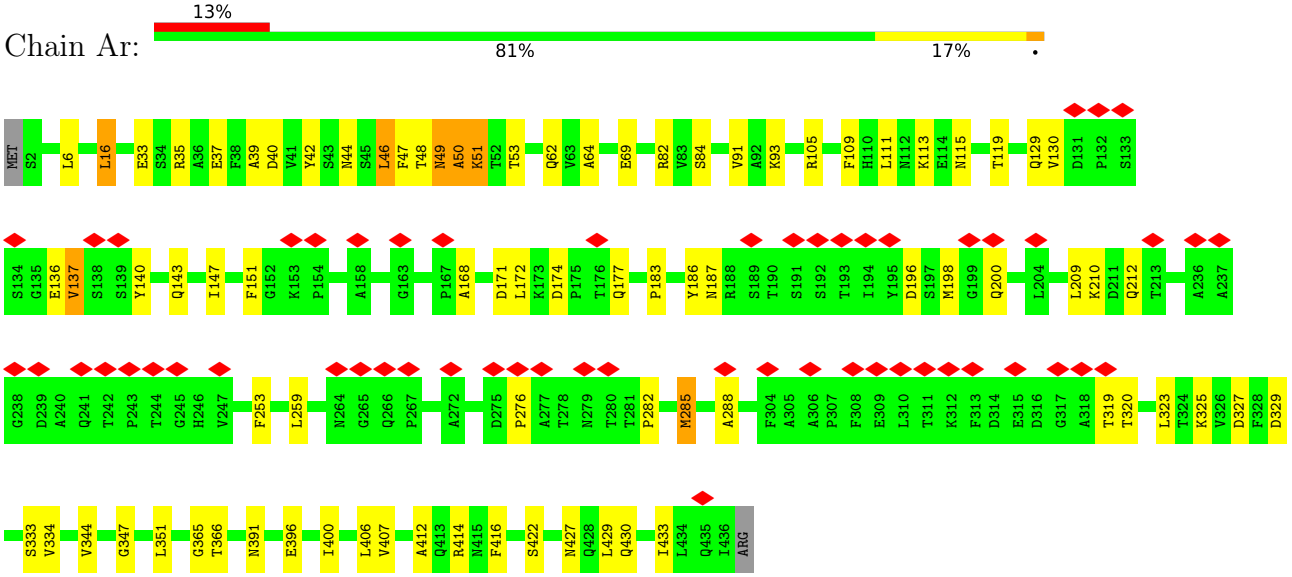
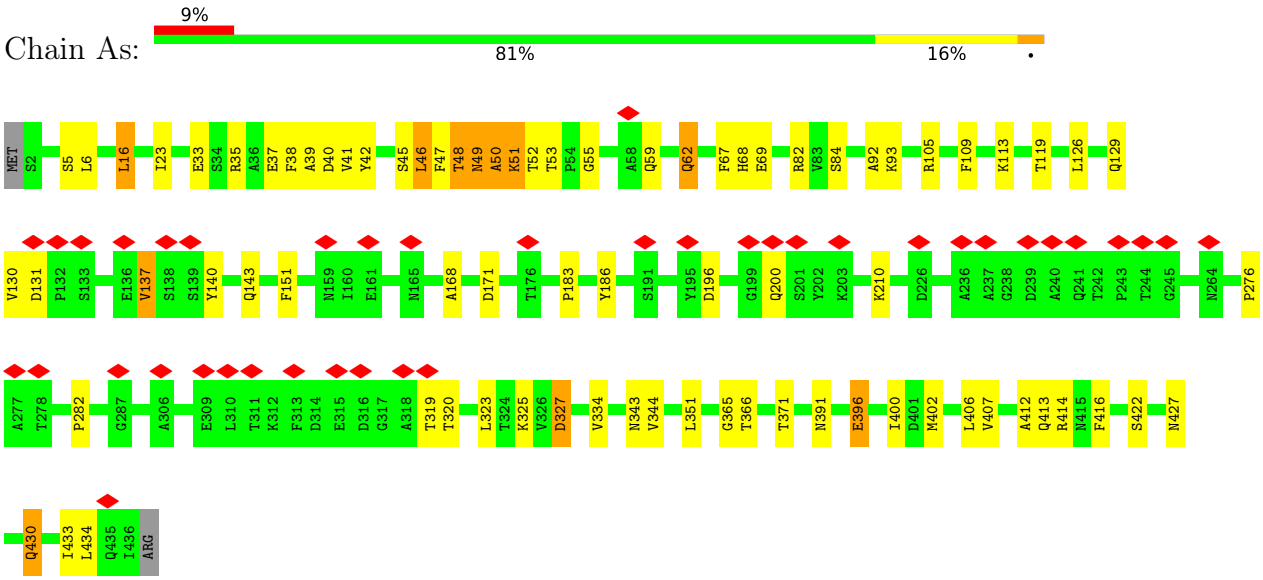




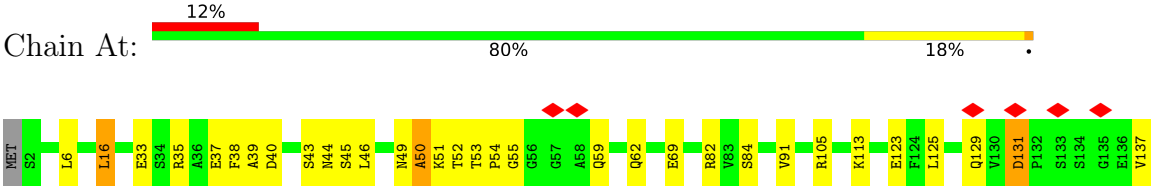
• Molecule 6: Flagellar hook protein FlgE

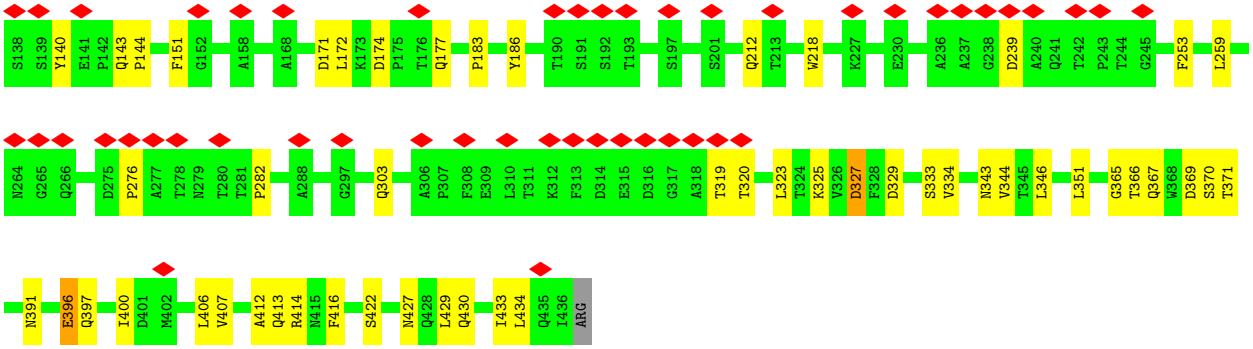


• Molecule 6: Flagellar hook protein FlgE

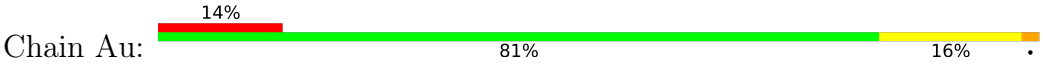


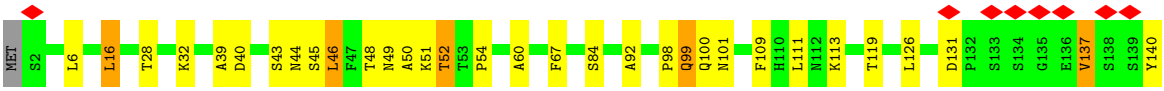
• Molecule 6: Flagellar hook protein FlgE



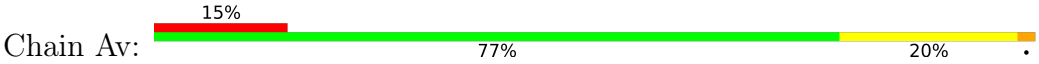


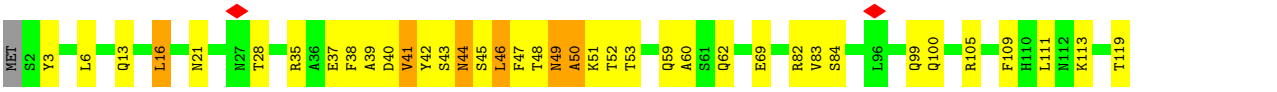
• Molecule 6: Flagellar hook protein FlgE



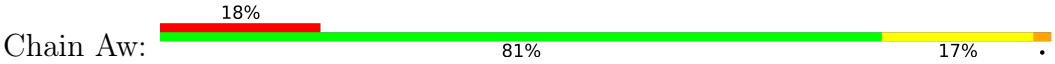


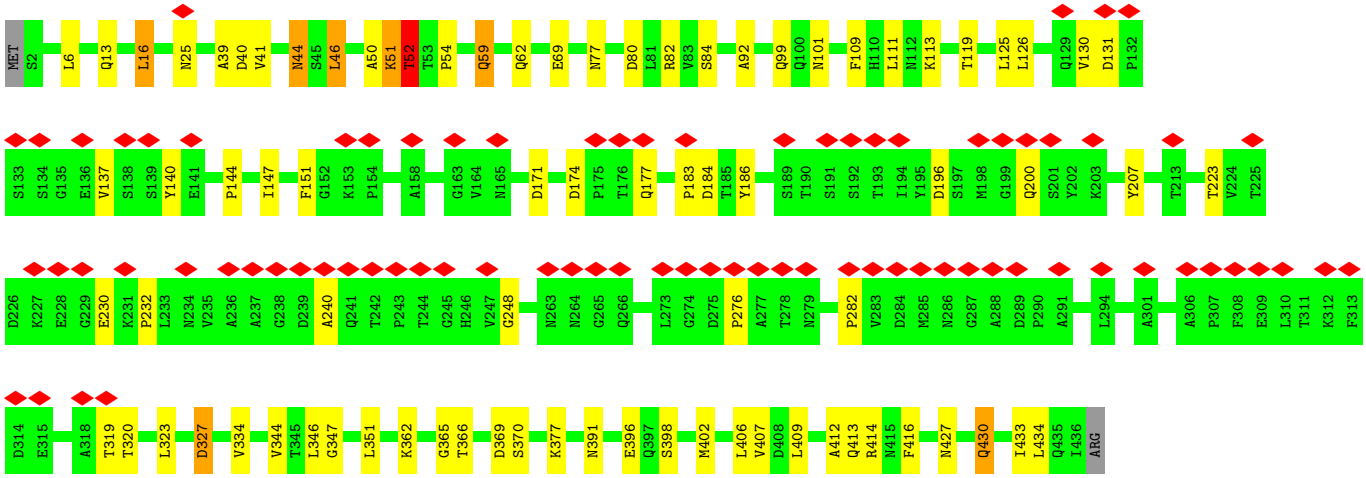
• Molecule 6: Flagellar hook protein FlgE





• Molecule 6: Flagellar hook protein FlgE





• Molecule 6: Flagellar hook protein FlgE

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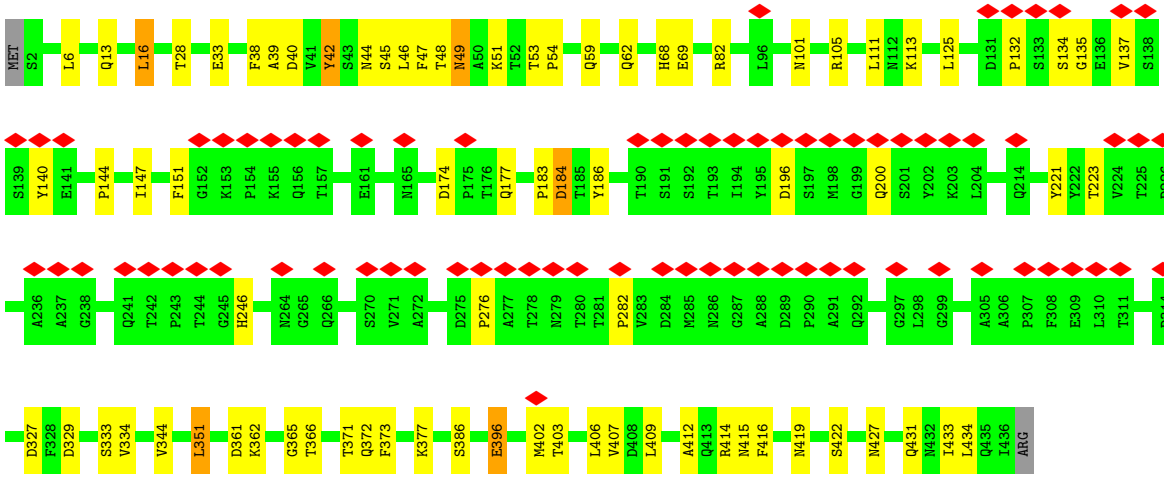

• Molecule 6: Flagellar hook protein FlgE

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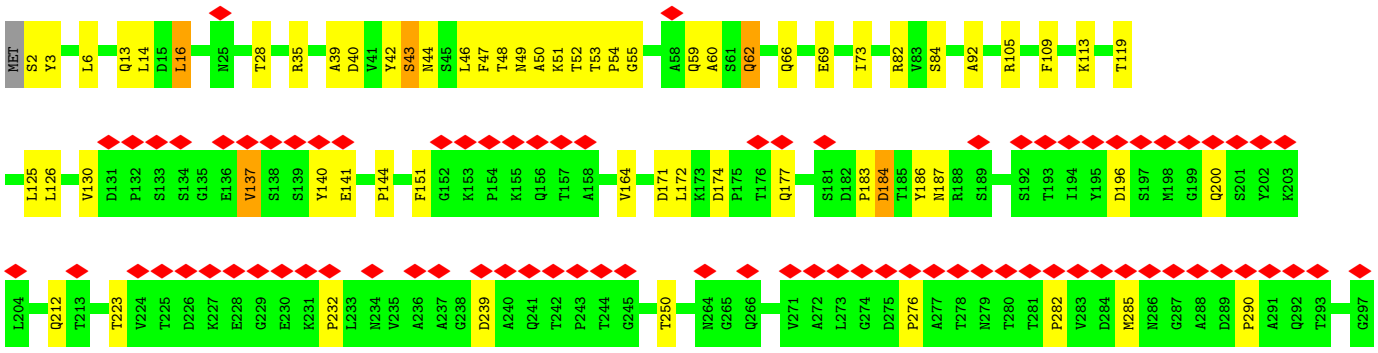
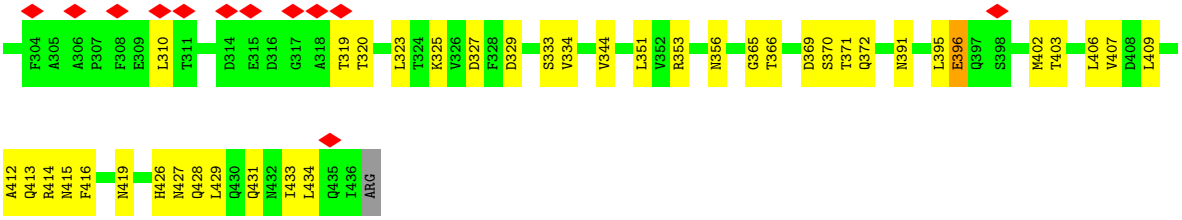
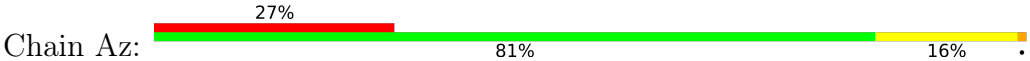
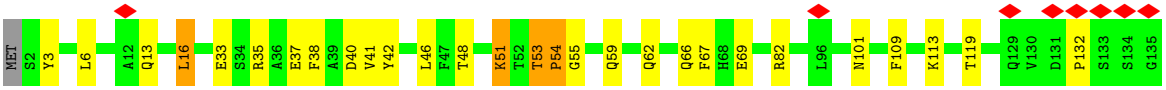
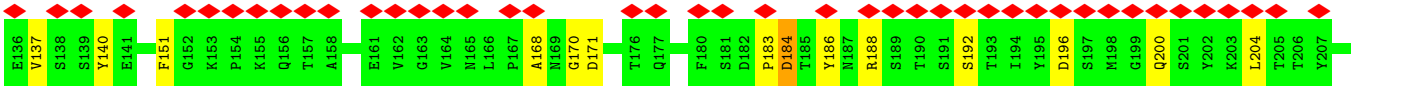


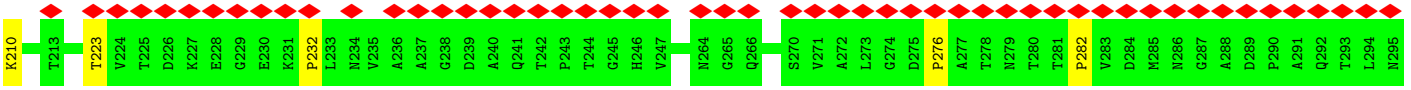


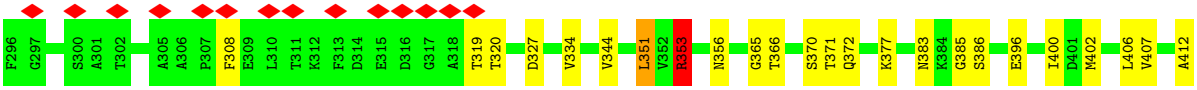
• Molecule 6: Flagellar hook protein FlgE

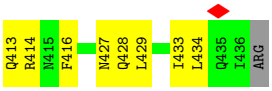




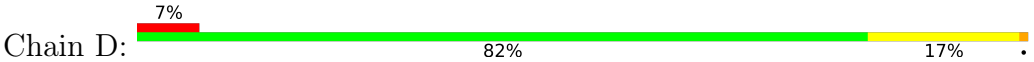


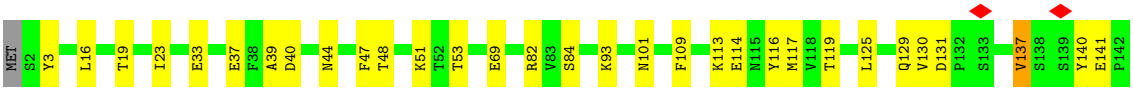


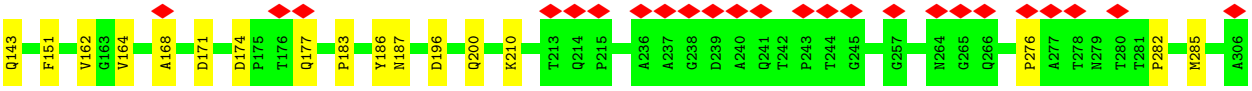




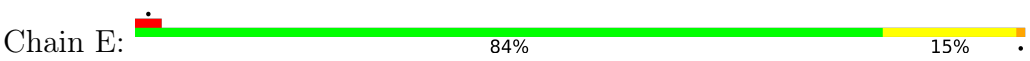
• Molecule 6: Flagellar hook protein FlgE

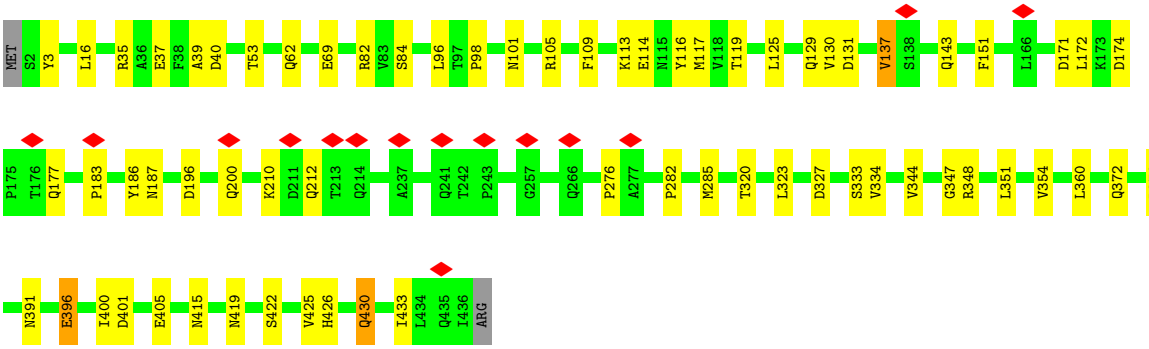




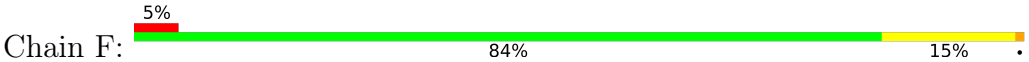


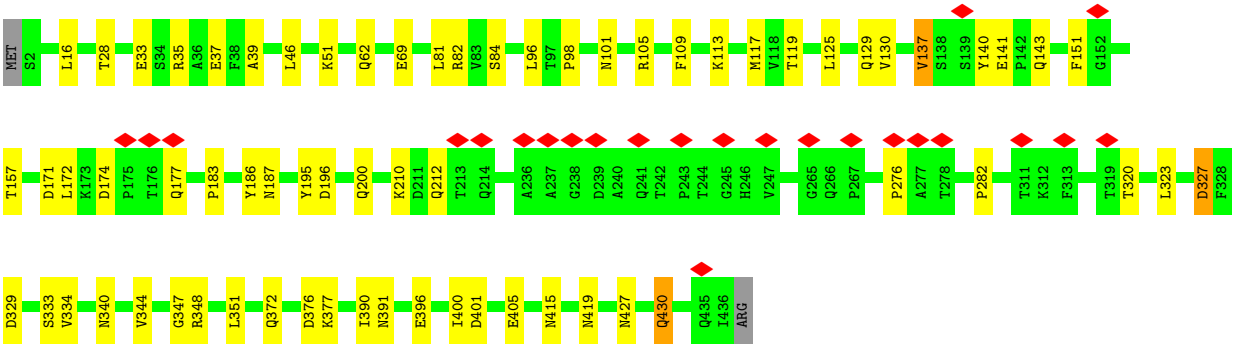
• Molecule 6: Flagellar hook protein FlgE



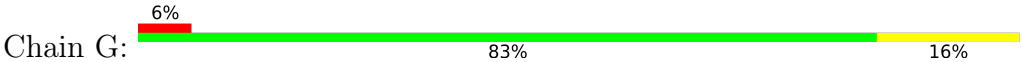


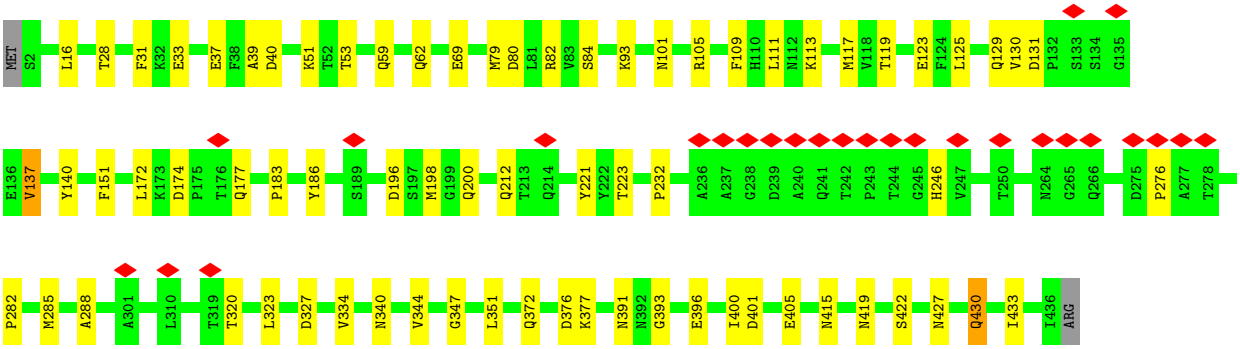
• Molecule 6: Flagellar hook protein FlgE



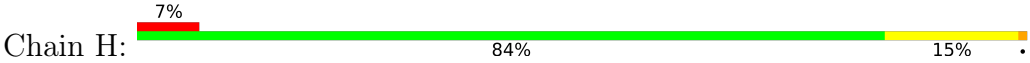


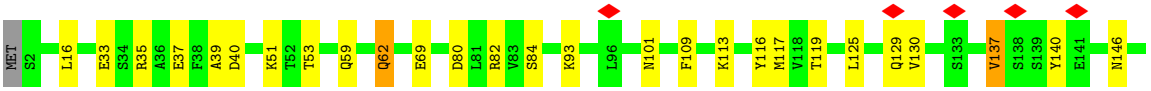
• Molecule 6: Flagellar hook protein FlgE

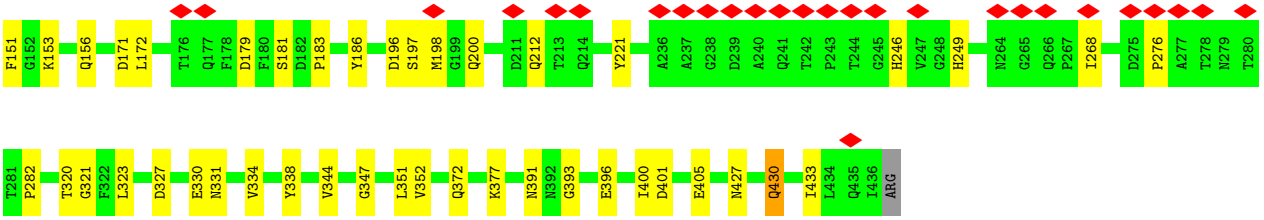




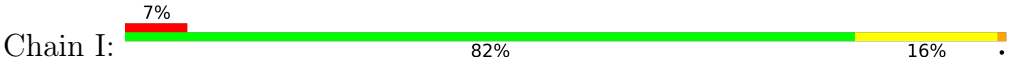
• Molecule 6: Flagellar hook protein FlgE

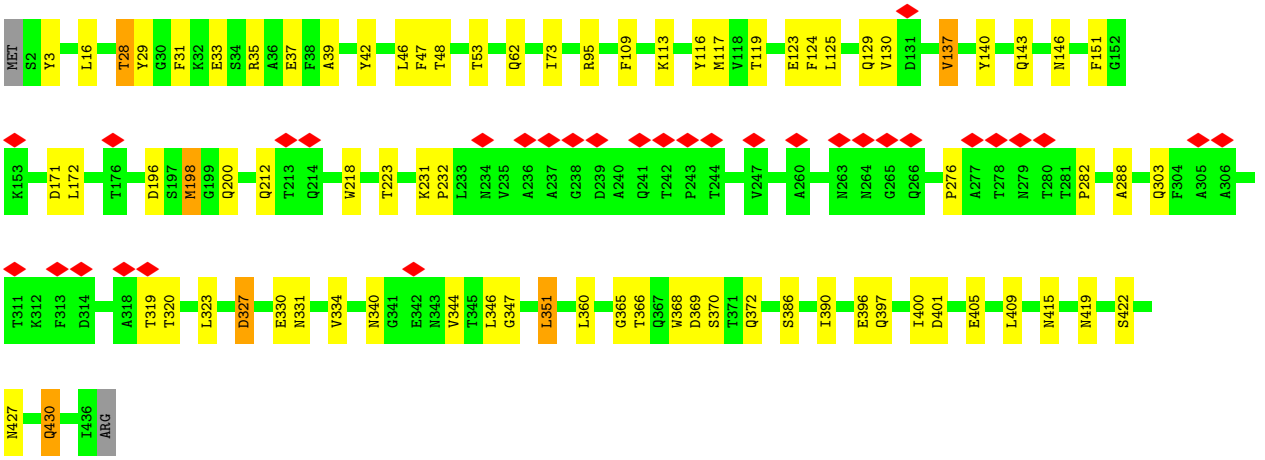




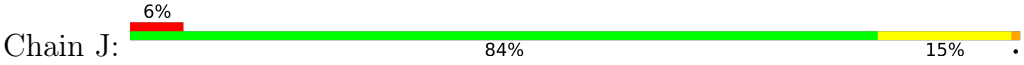


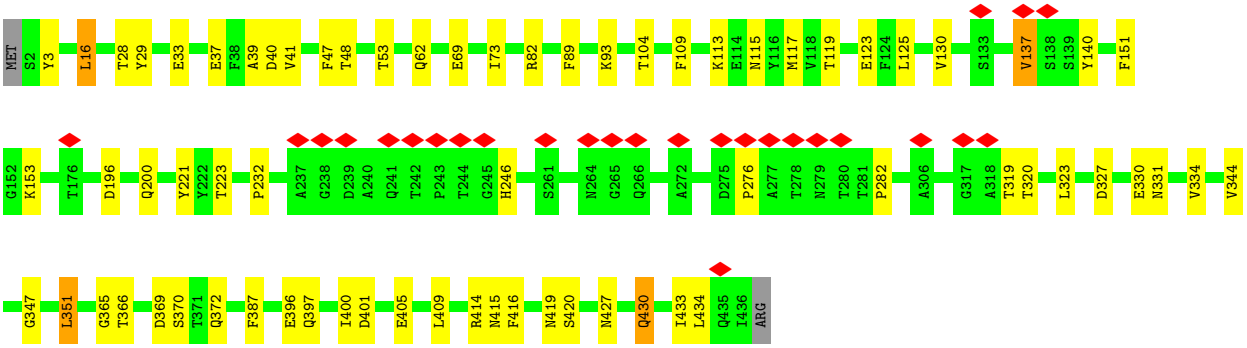
• Molecule 6: Flagellar hook protein FlgE



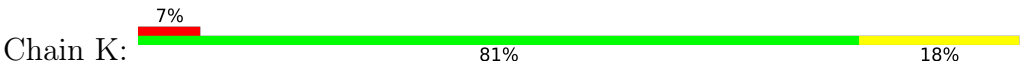


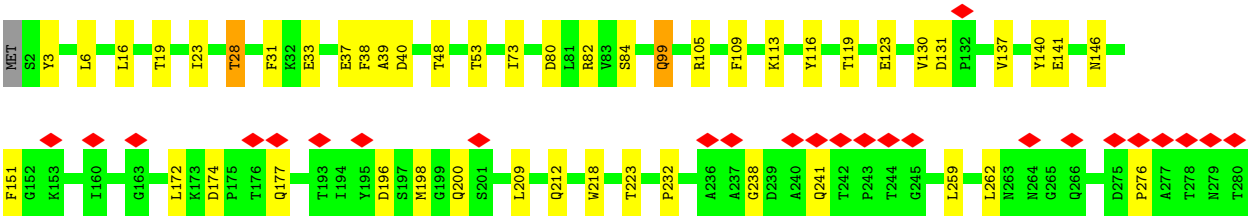
• Molecule 6: Flagellar hook protein FlgE

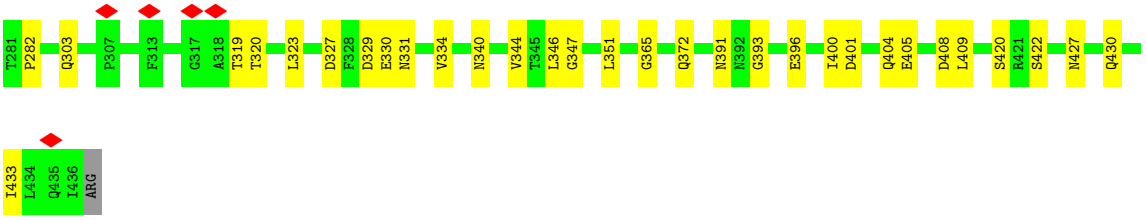




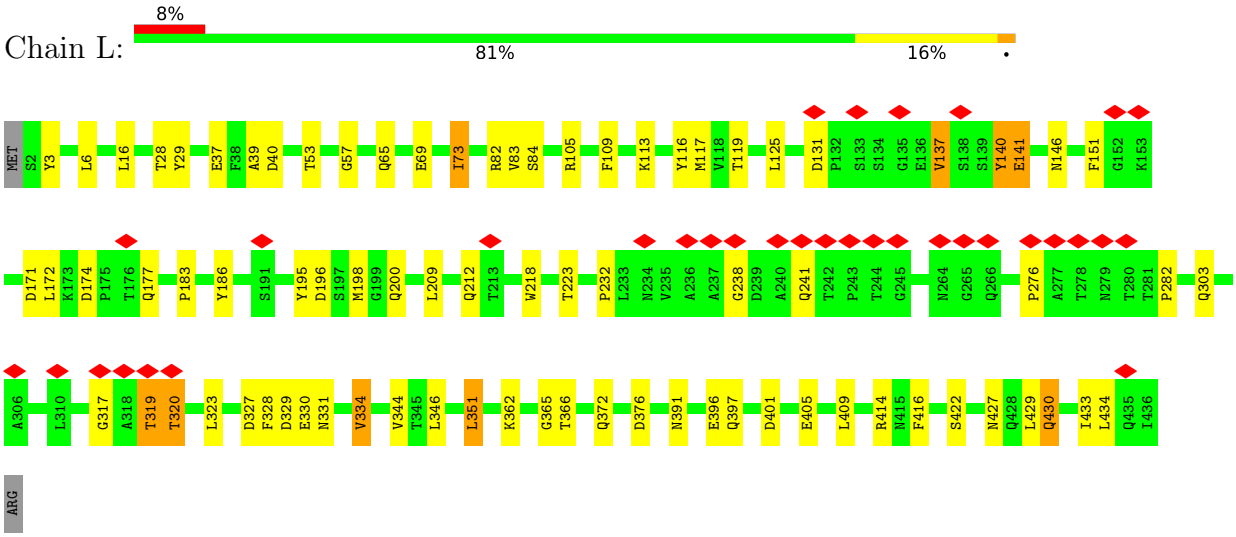
• Molecule 6: Flagellar hook protein FlgE



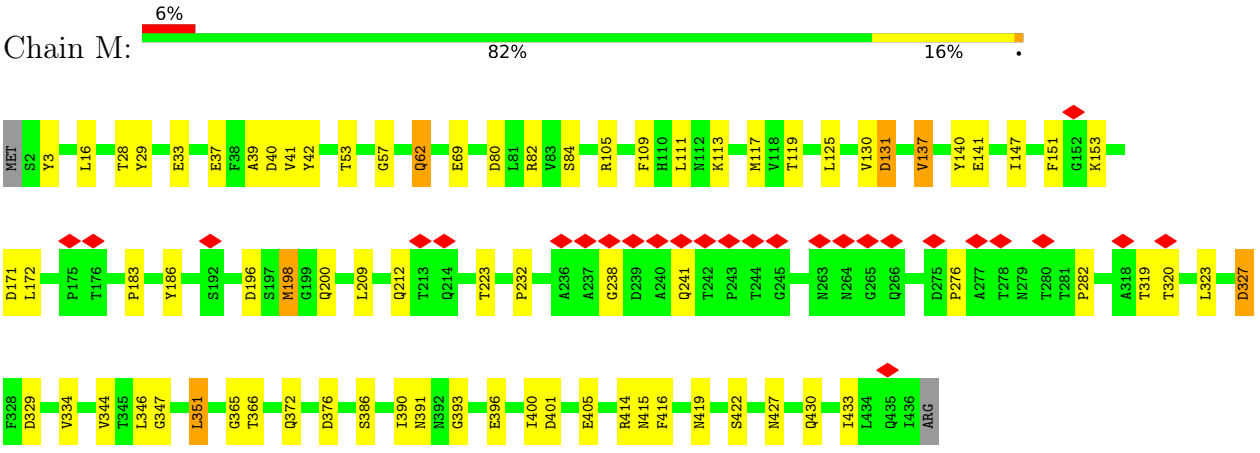




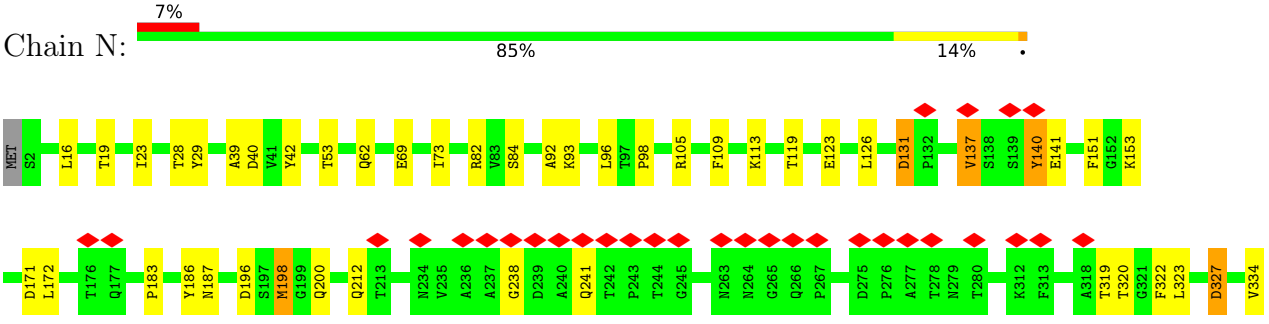
• Molecule 6: Flagellar hook protein FlgE

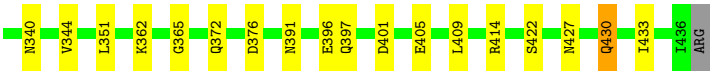


• Molecule 6: Flagellar hook protein FlgE

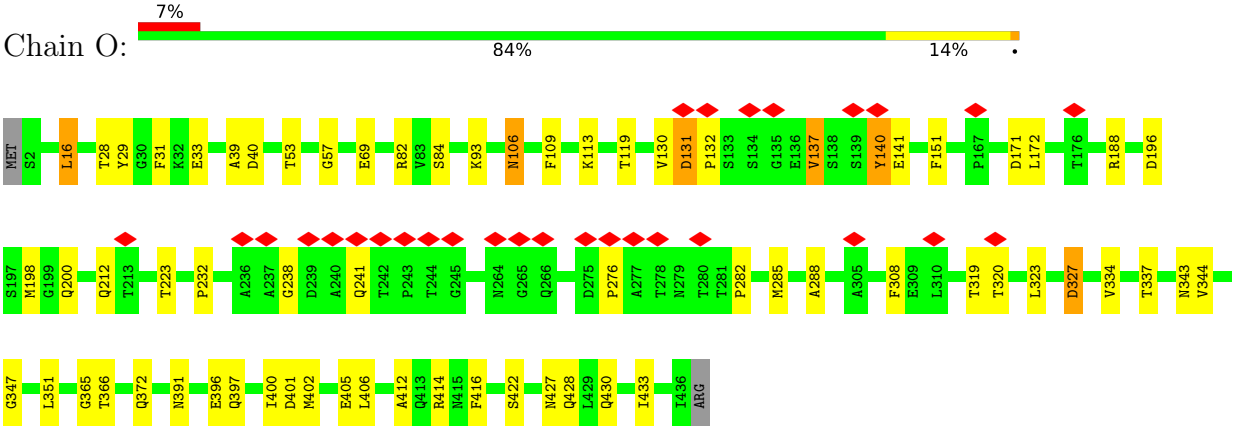


• Molecule 6: Flagellar hook protein FlgE

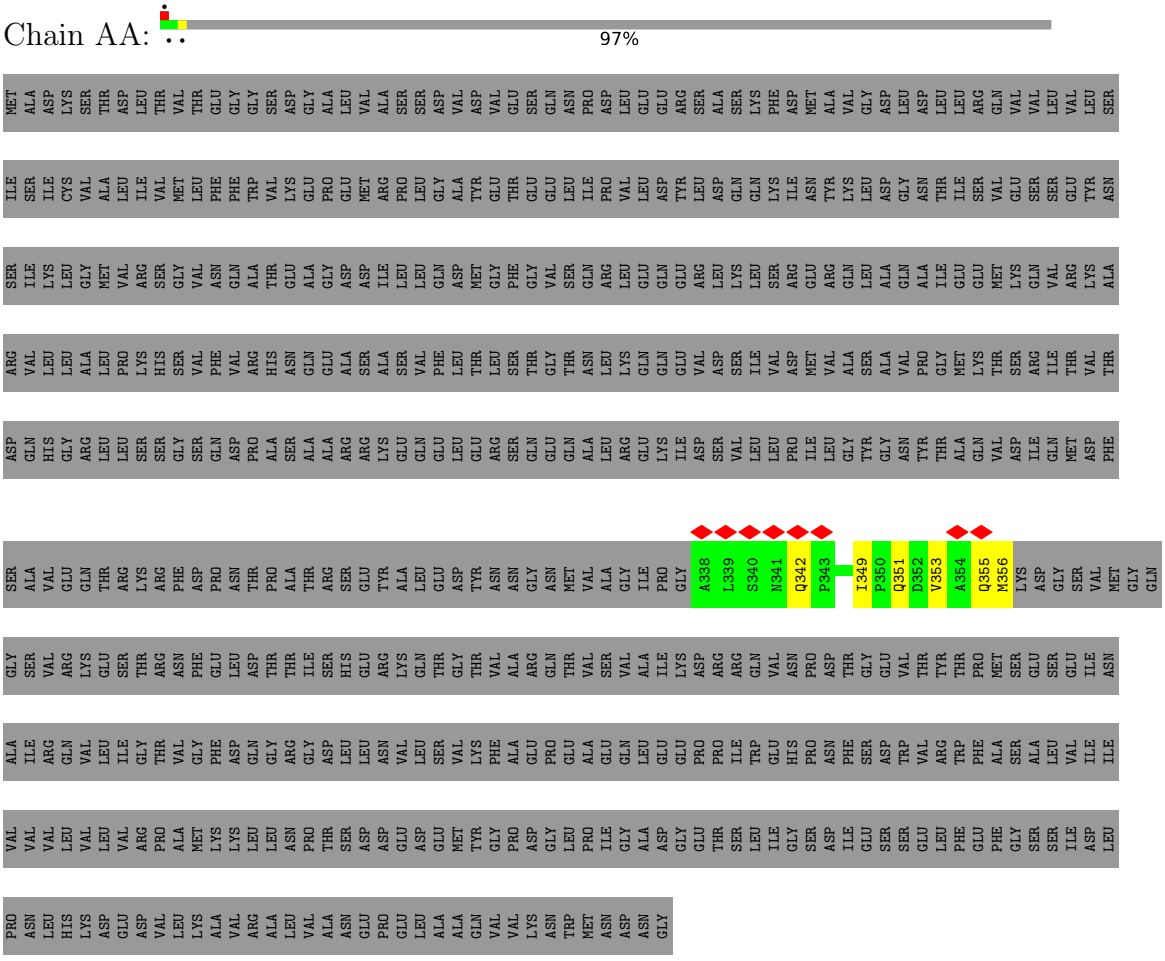




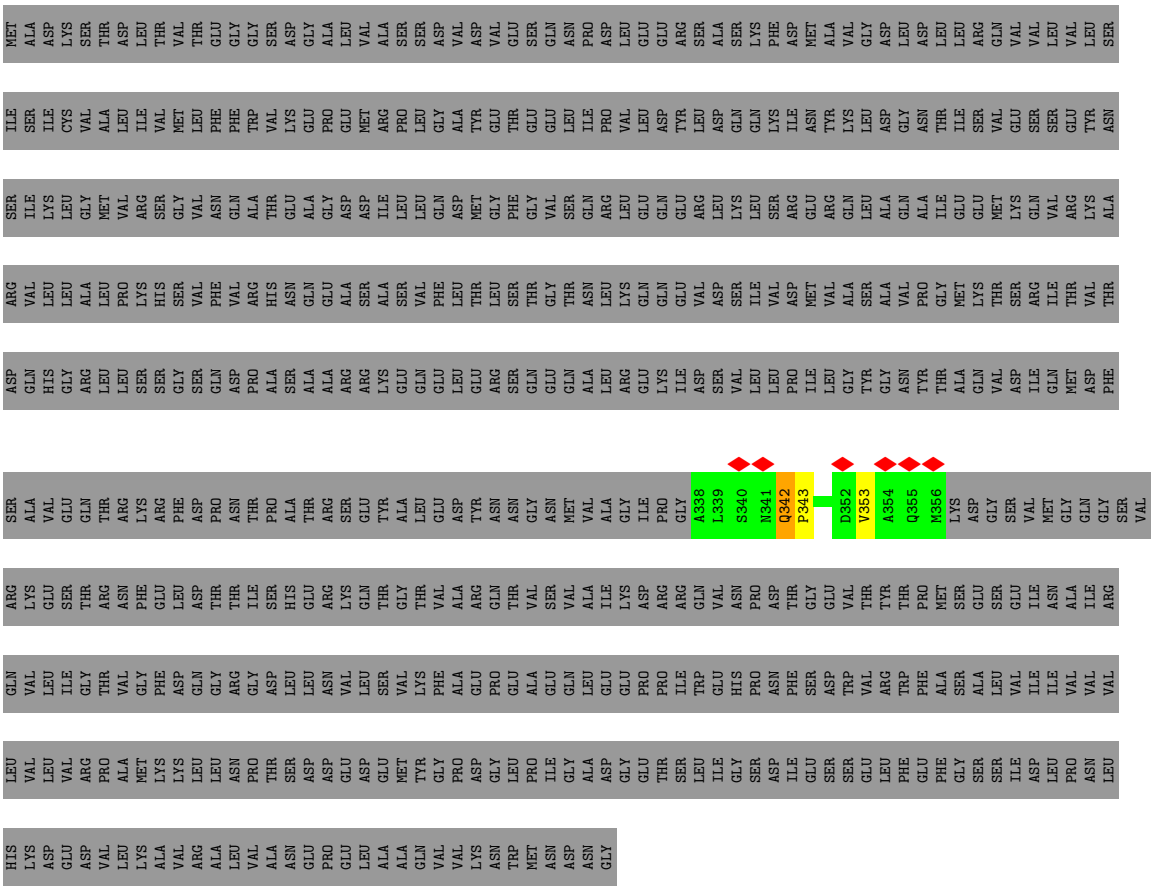
• Molecule 6: Flagellar hook protein FlgE



• Molecule 7: Flagellar M-ring protein

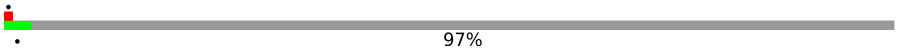


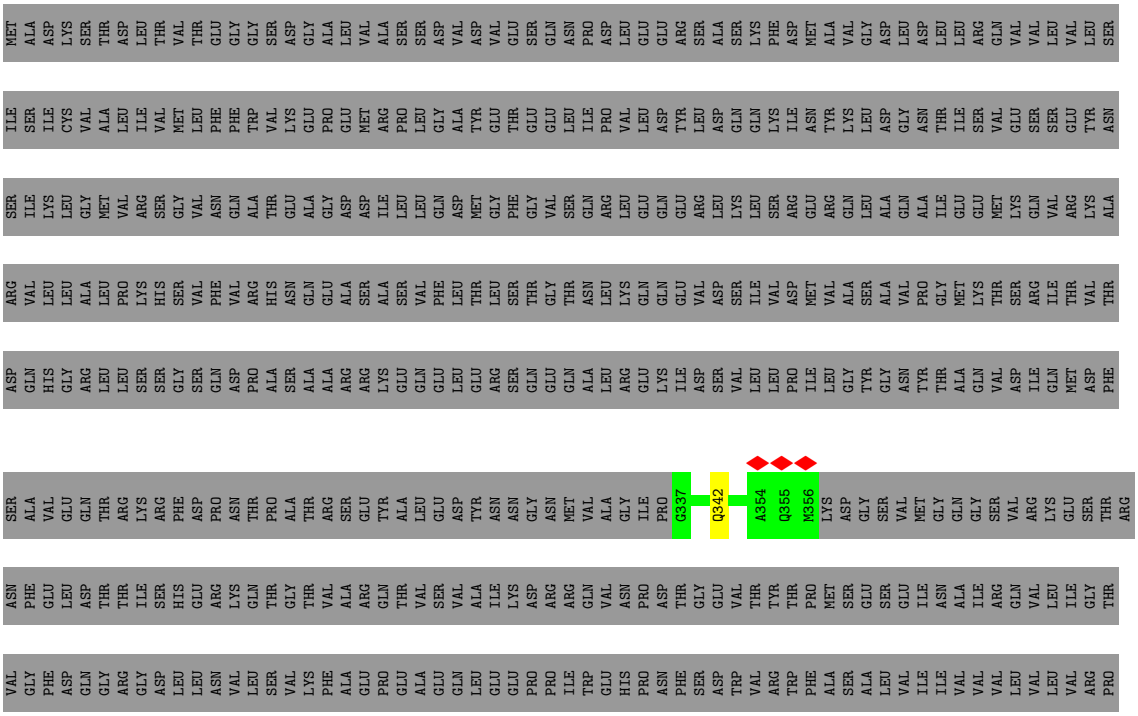
• Molecule 7: Flagellar M-ring protein

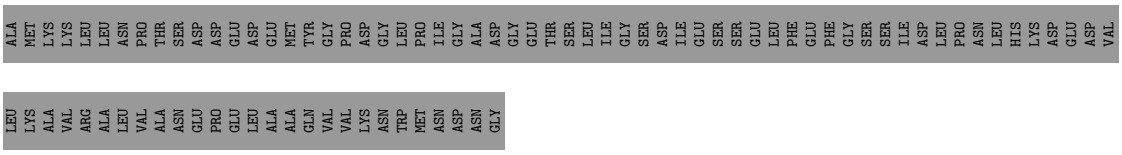


• Molecule 7: Flagellar M-ring protein

Chain AC:







• Molecule 7: Flagellar M-ring protein

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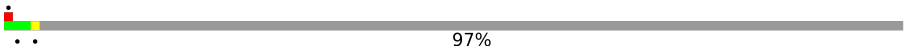
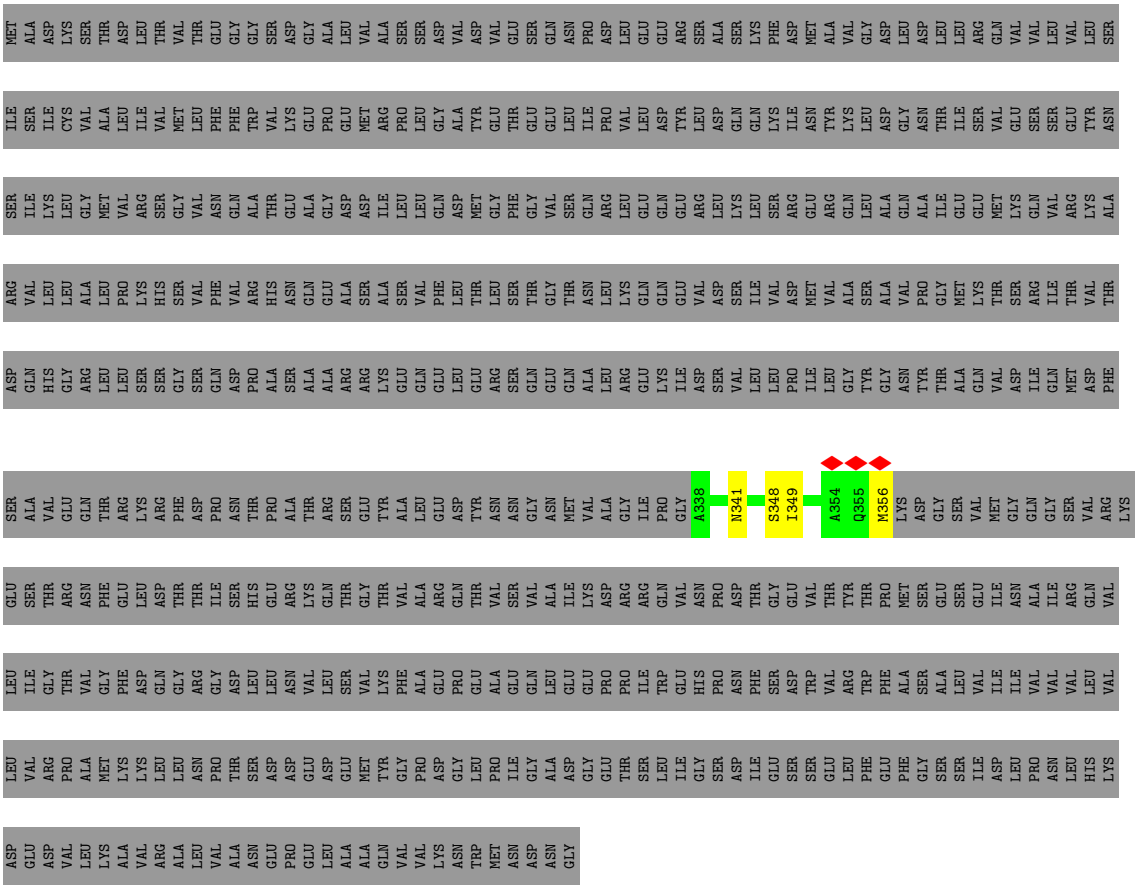
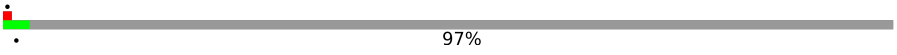
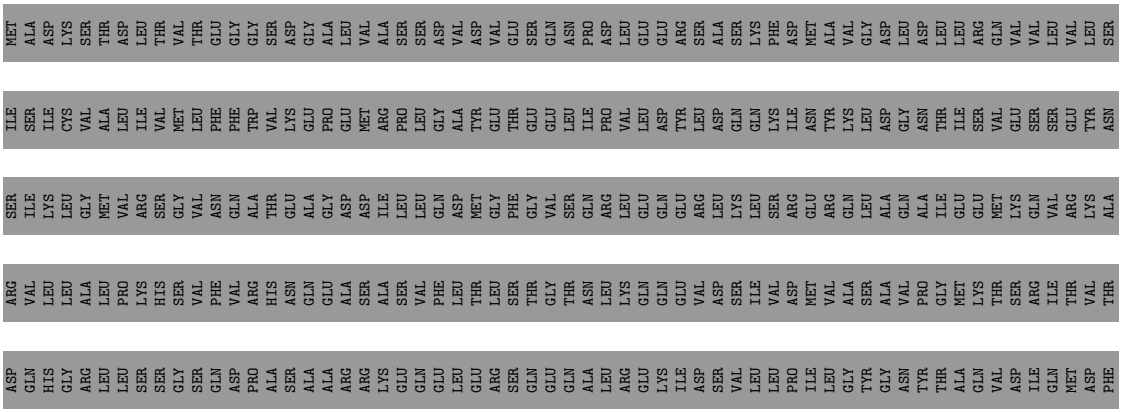


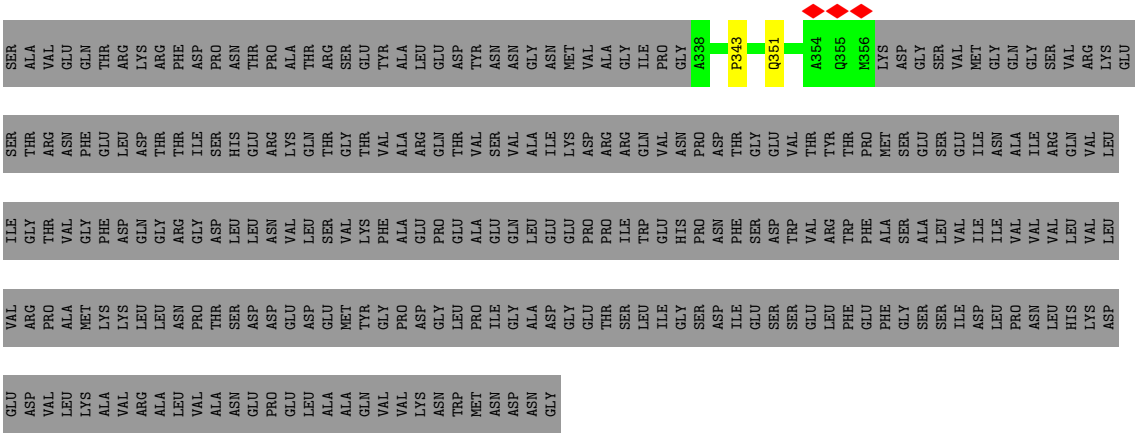


• Molecule 7: Flagellar M-ring protein

Chain AE:







• Molecule 7: Flagellar M-ring protein

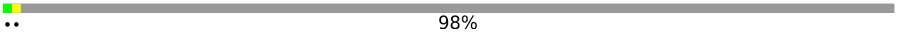
Chain AF: 96%

• Molecule 7: Flagellar M-ring protein

Chain AG: 98%

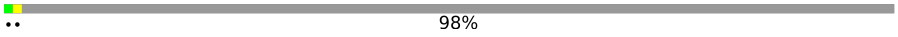
• Molecule 7: Flagellar M-ring protein

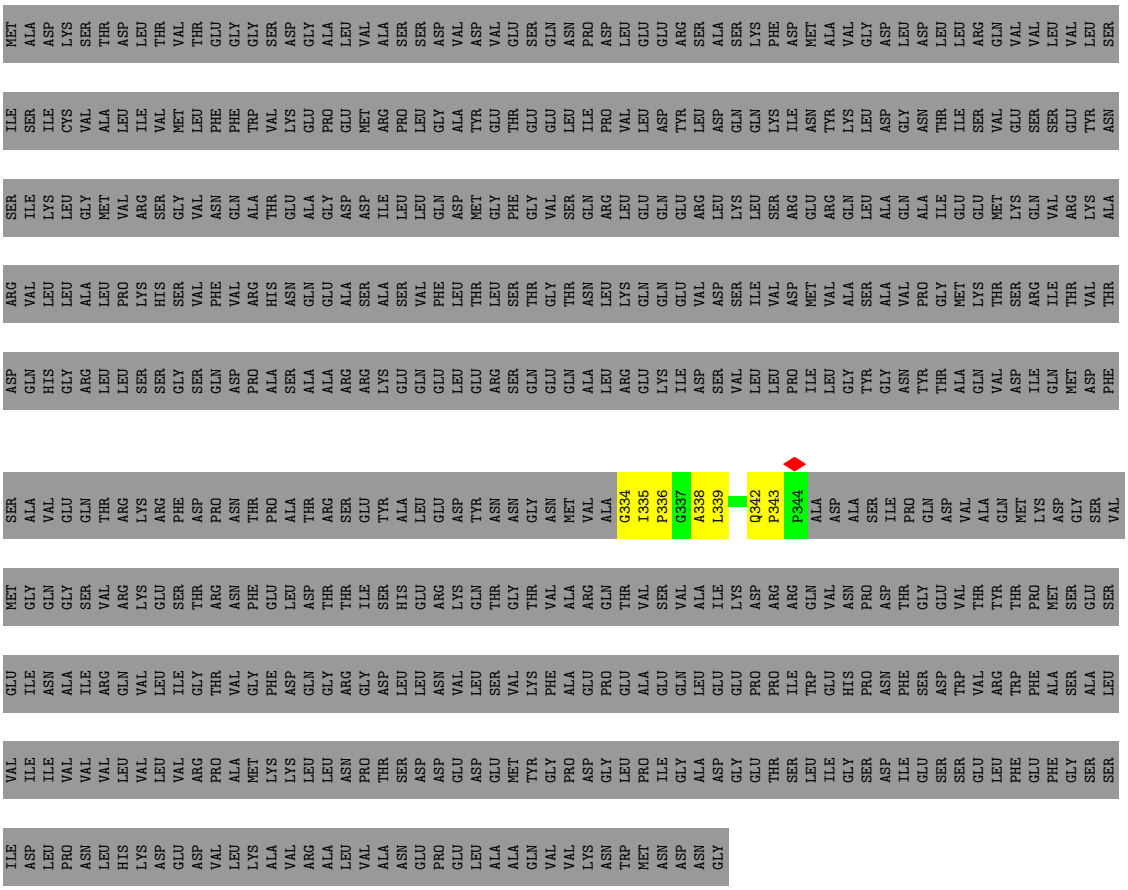
Chain AH:



• Molecule 7: Flagellar M-ring protein

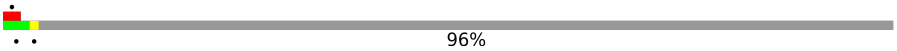
Chain AI:

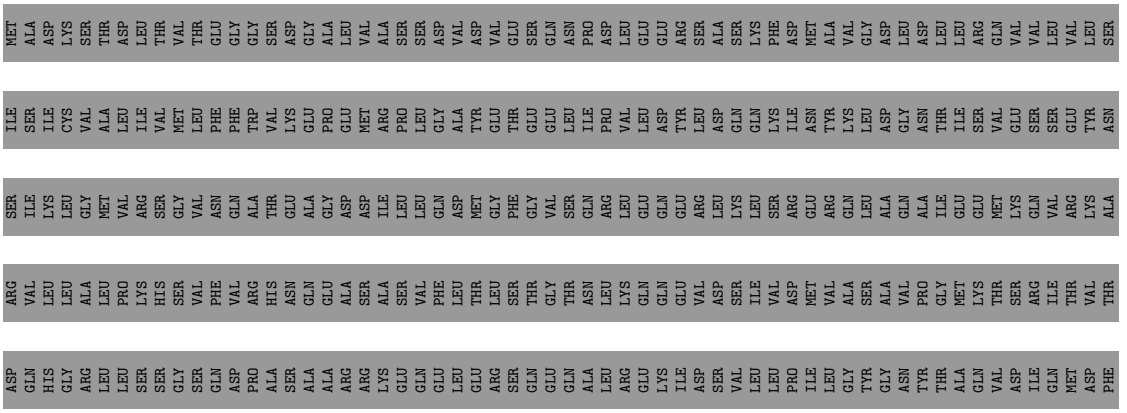


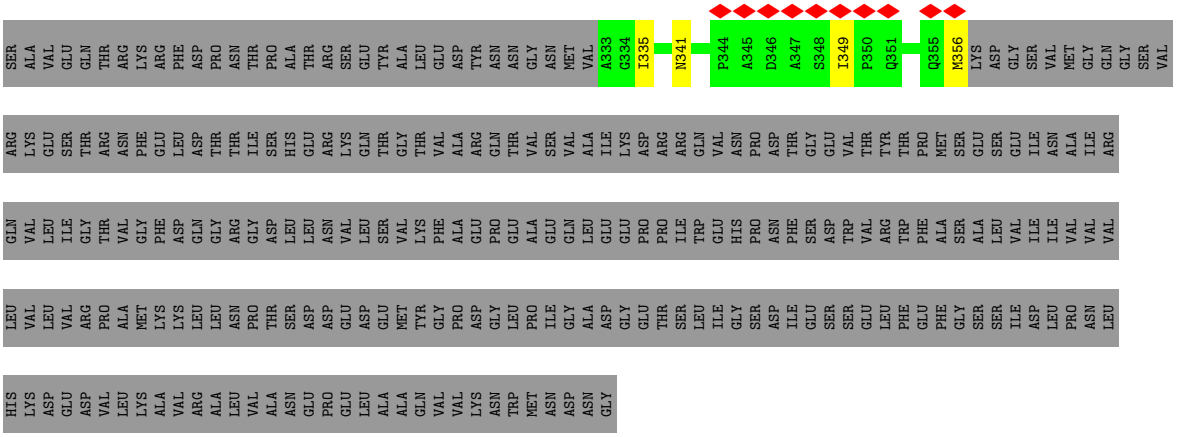


• Molecule 7: Flagellar M-ring protein

Chain AJ:





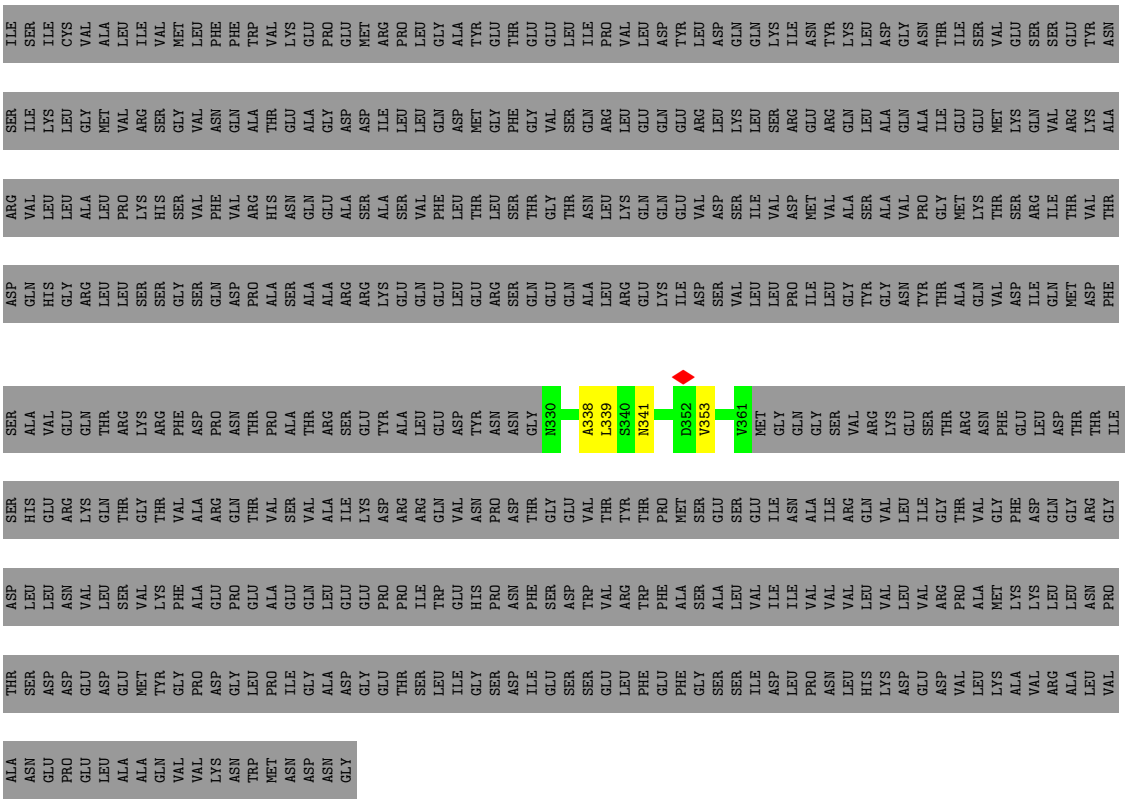


• Molecule 7: Flagellar M-ring protein

Chain AK: 96%

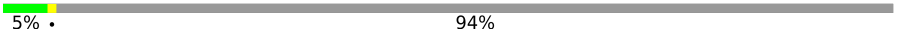
• Molecule 7: Flagellar M-ring protein

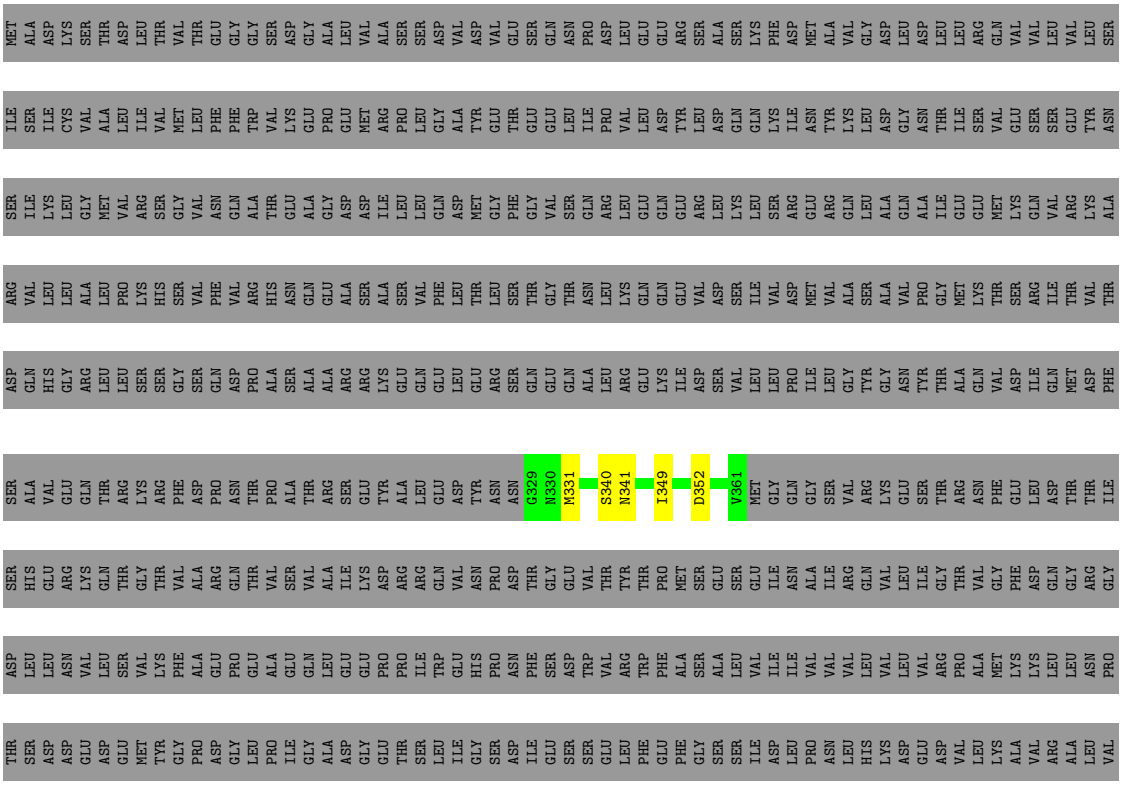
Chain AL: 5% 94%

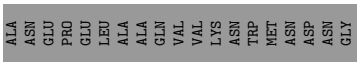


• Molecule 7: Flagellar M-ring protein

Chain AM:

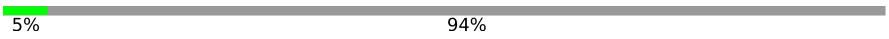


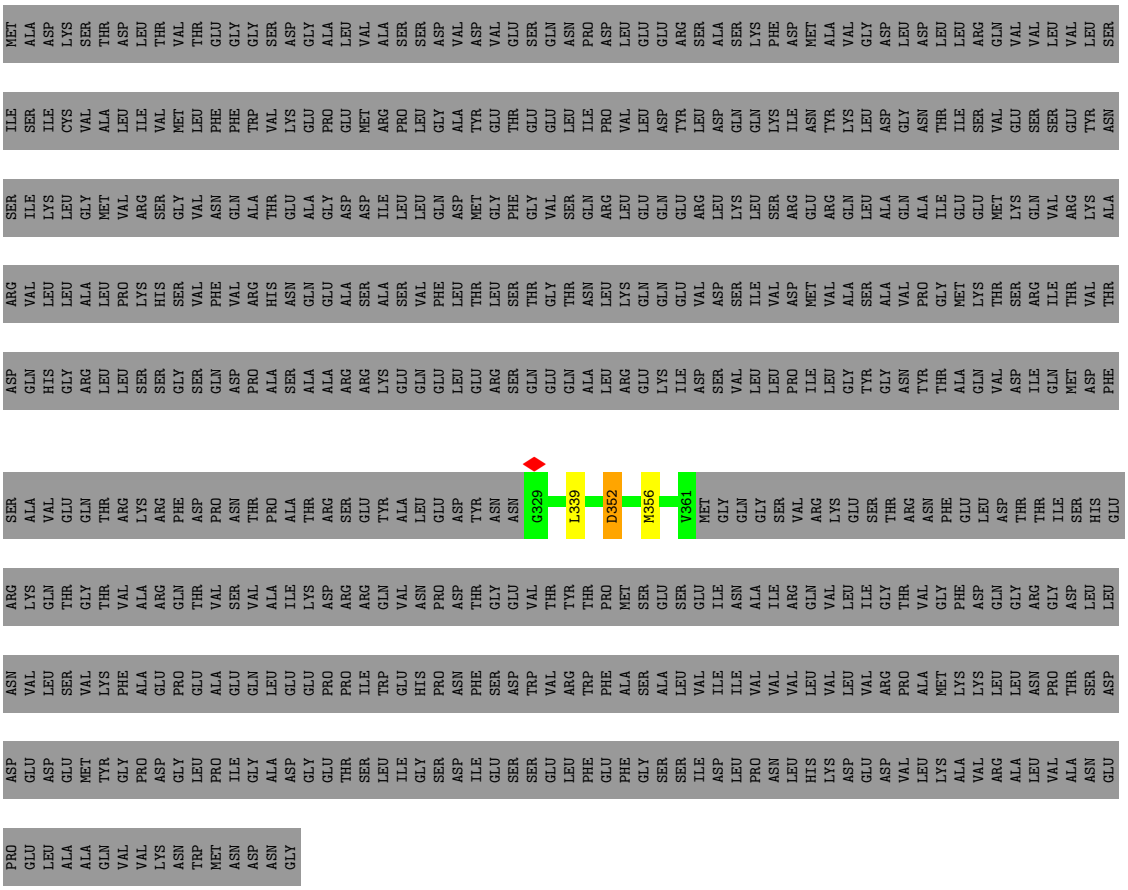




• Molecule 7: Flagellar M-ring protein

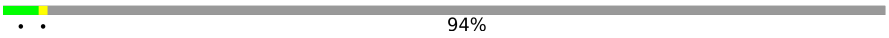
Chain AN:

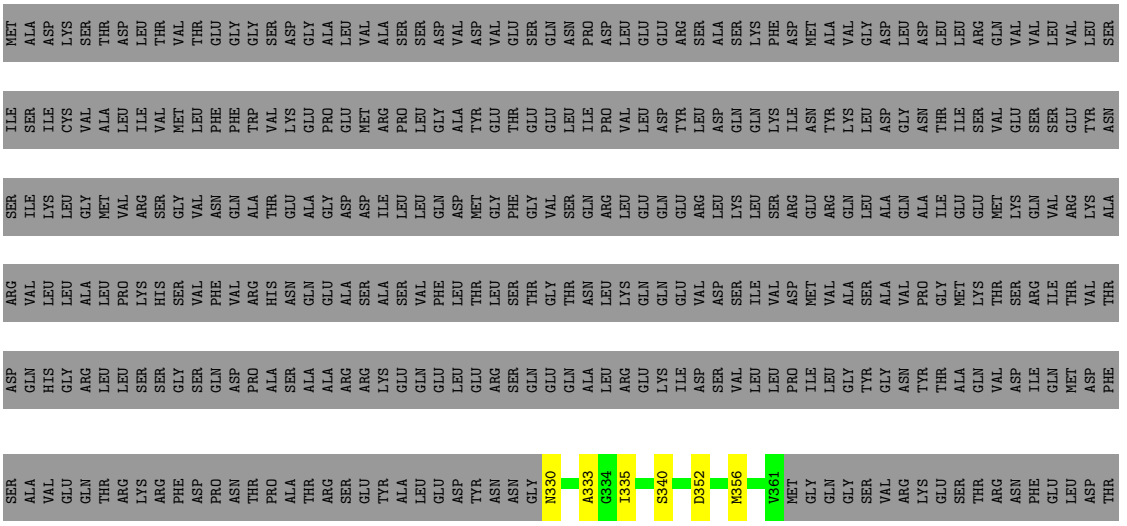


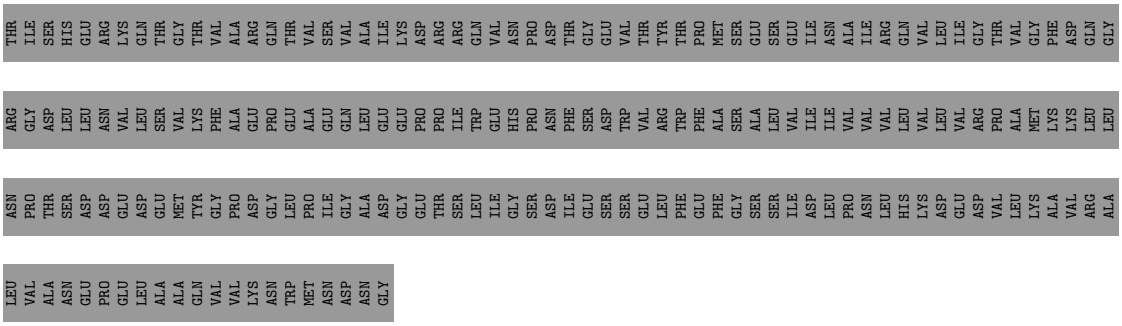


• Molecule 7: Flagellar M-ring protein

Chain AO:

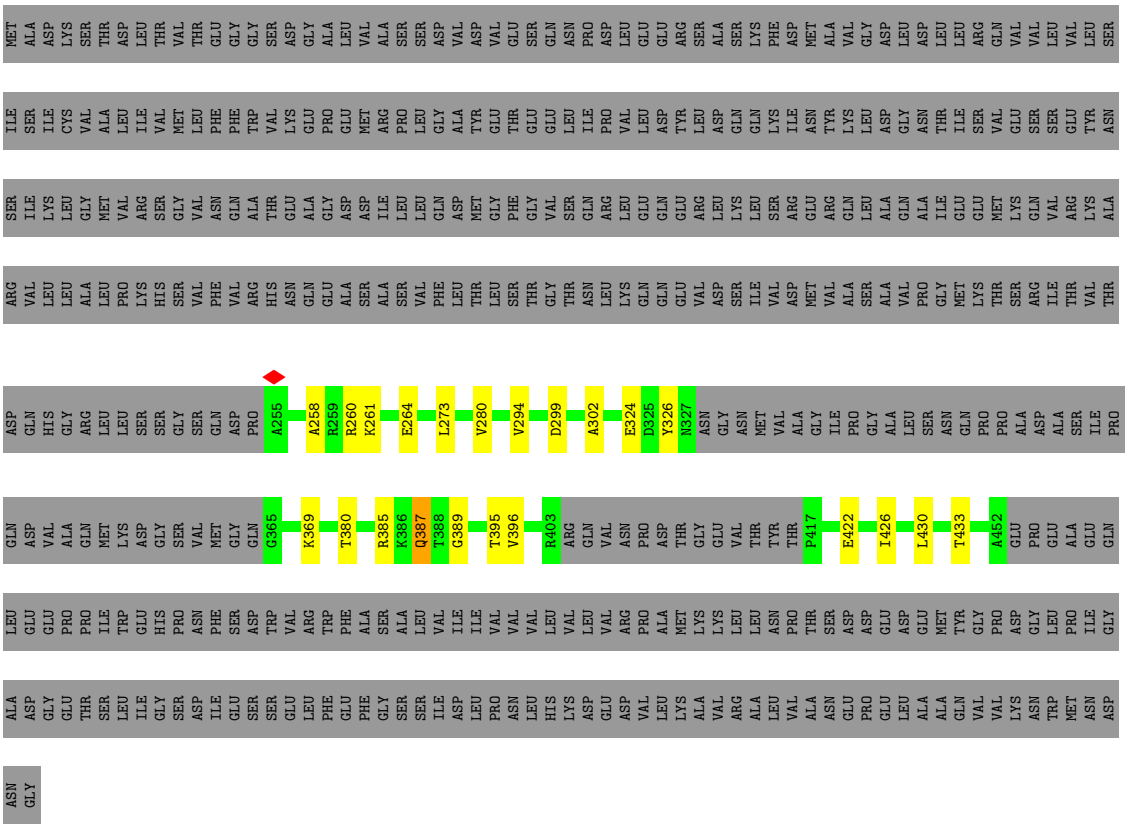






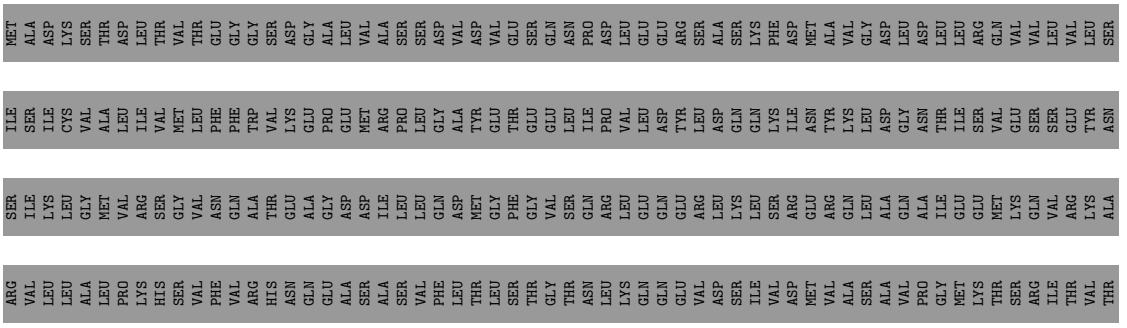
• Molecule 7: Flagellar M-ring protein

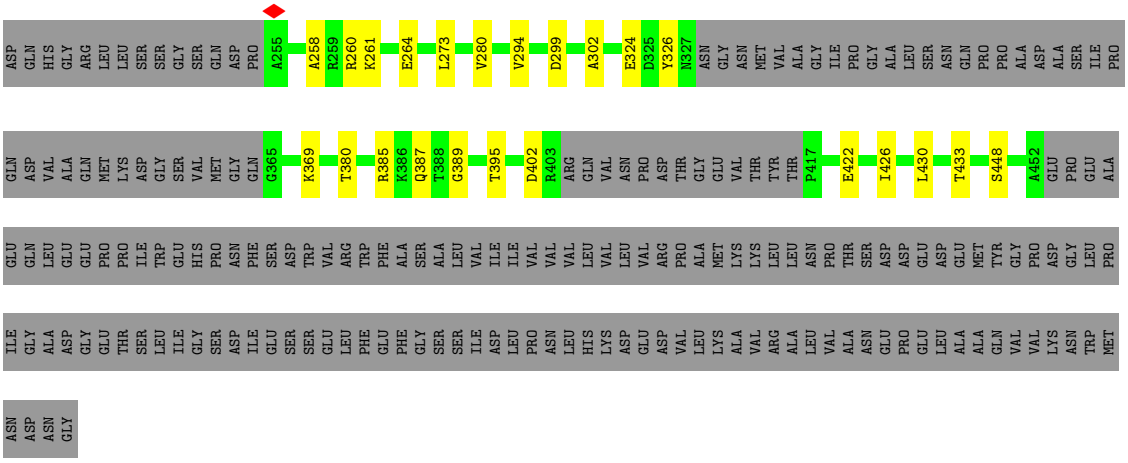
Chain Dz: 22% 74%



• Molecule 7: Flagellar M-ring protein

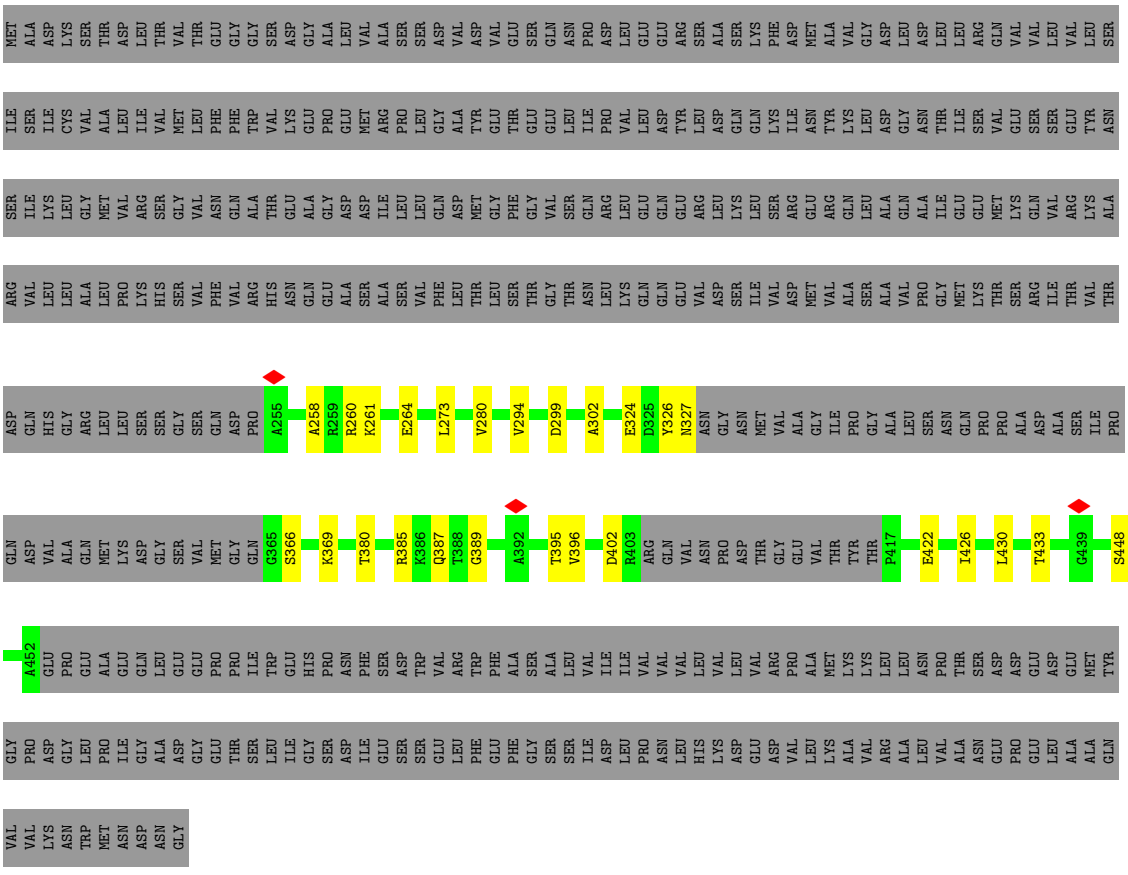
Chain D1: 22% 74%





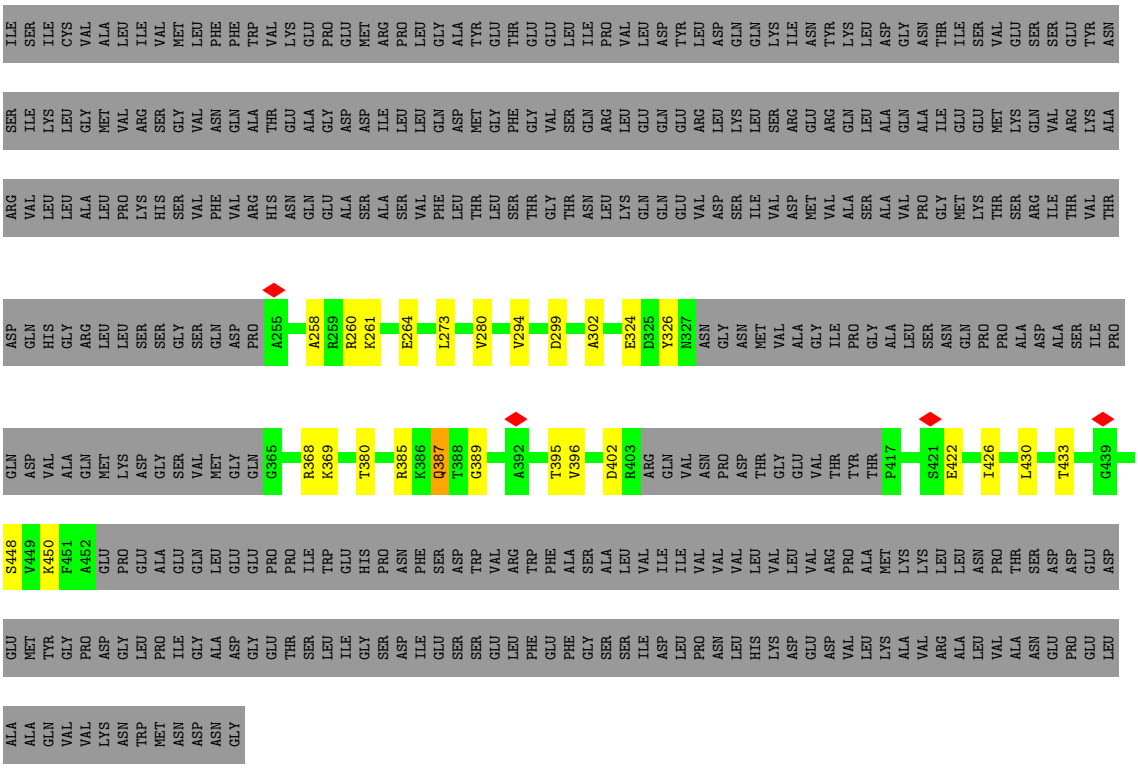
• Molecule 7: Flagellar M-ring protein

Chain D2:



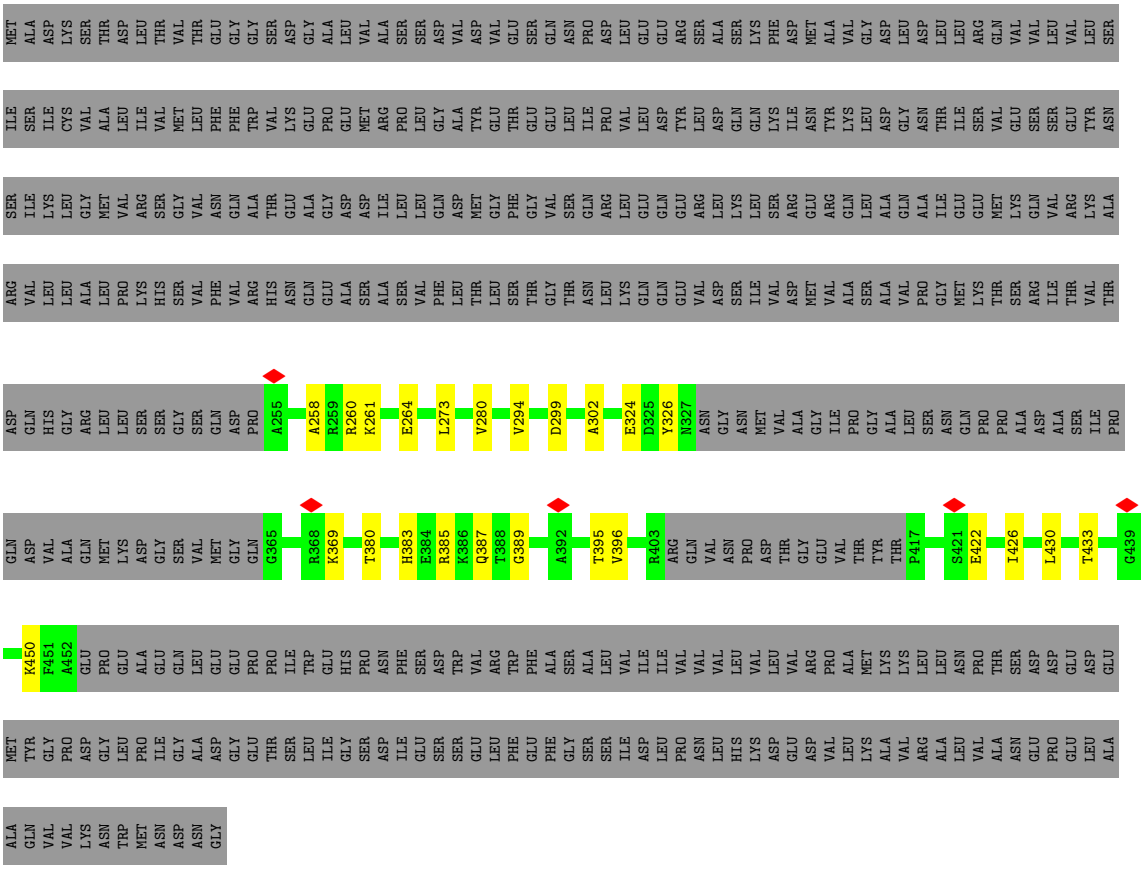
• Molecule 7: Flagellar M-ring protein

Chain D3:



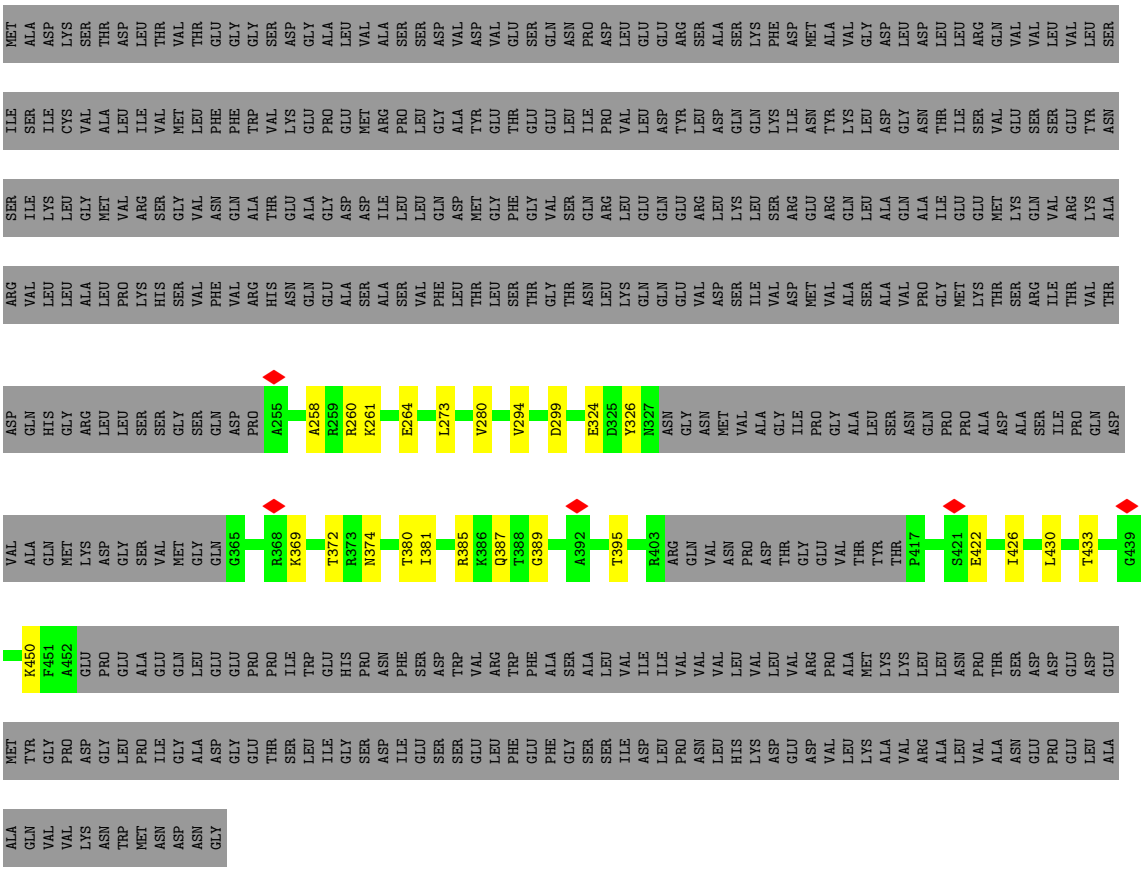
• Molecule 7: Flagellar M-ring protein

Chain D4:



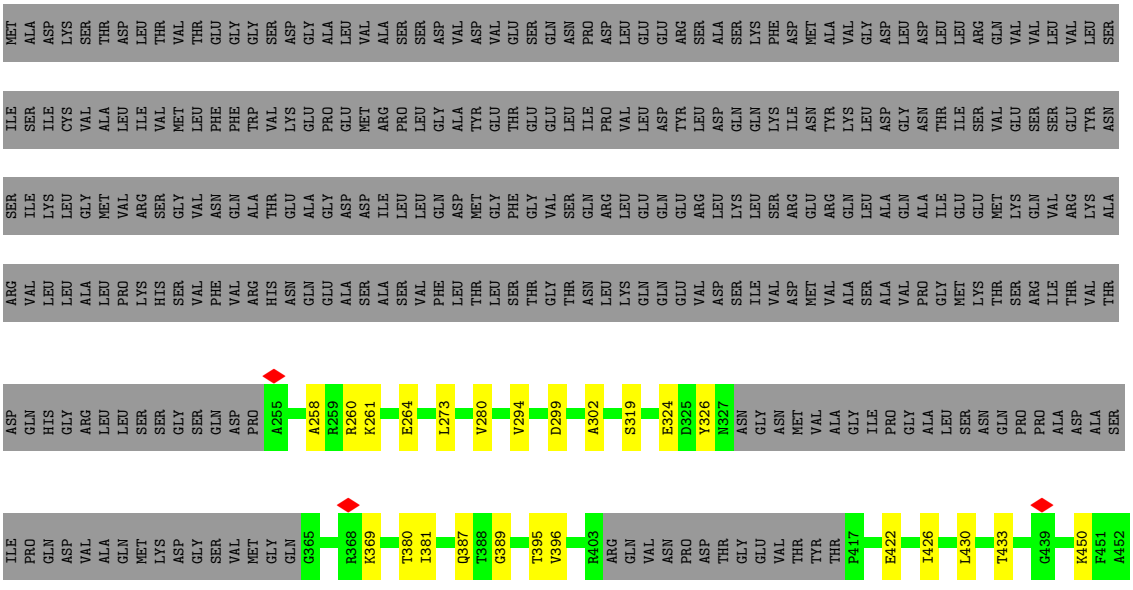
• Molecule 7: Flagellar M-ring protein

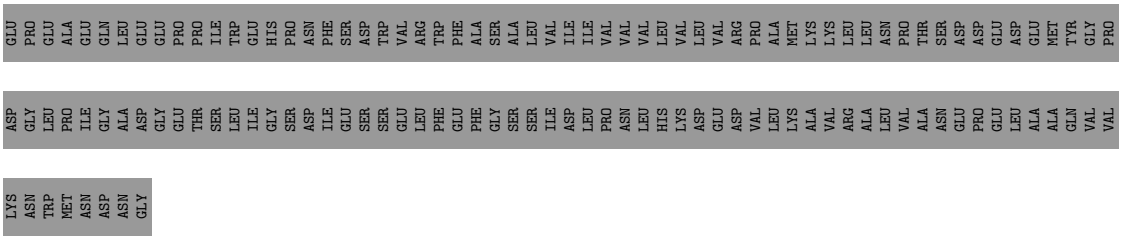
Chain D5:



• Molecule 7: Flagellar M-ring protein

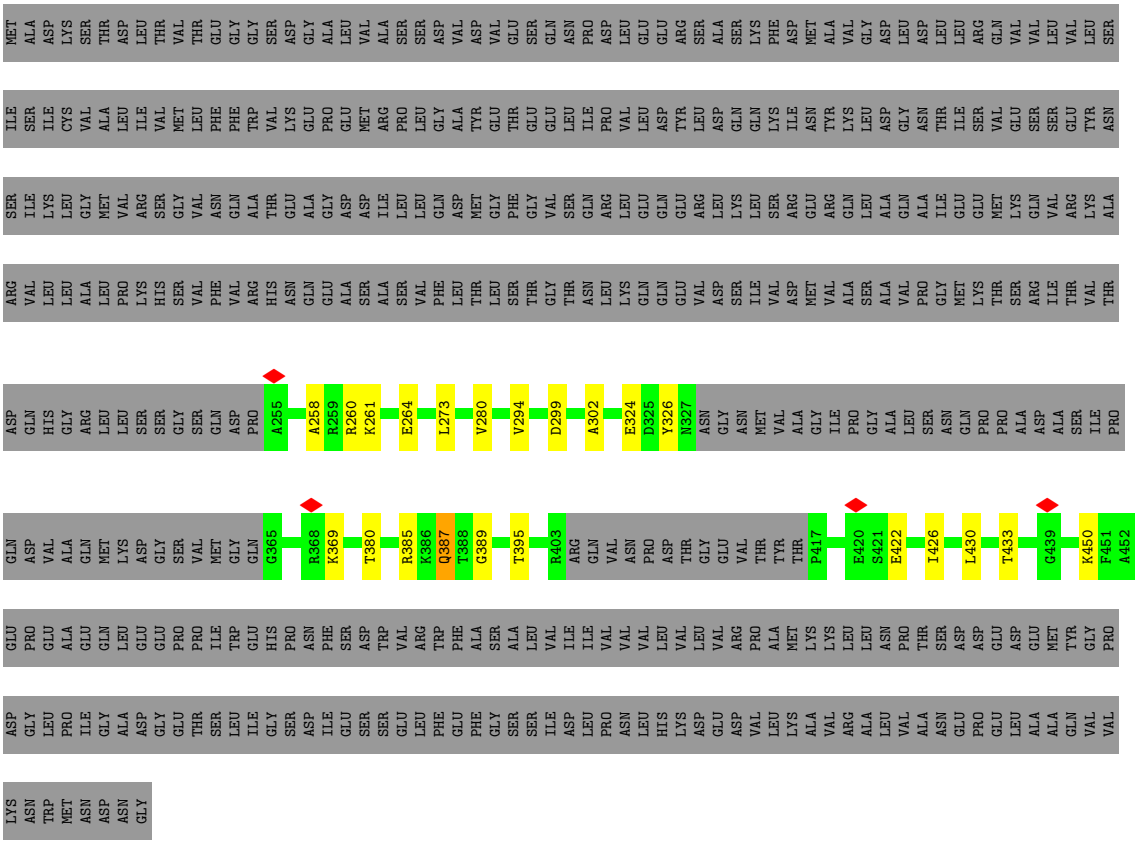
Chain EG:





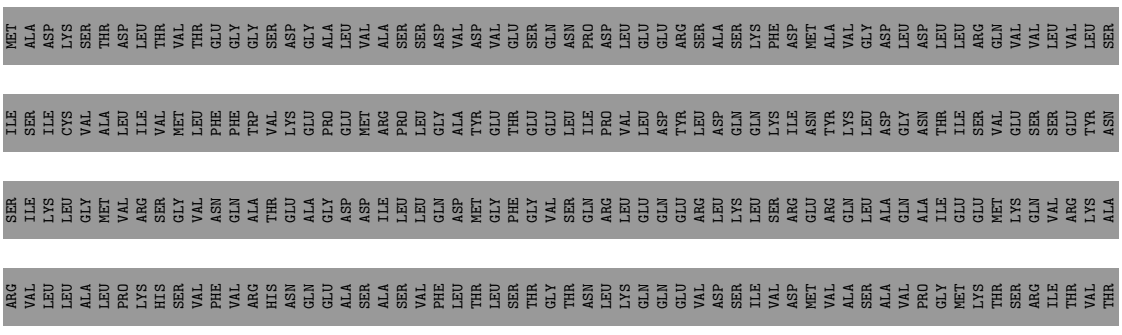
• Molecule 7: Flagellar M-ring protein

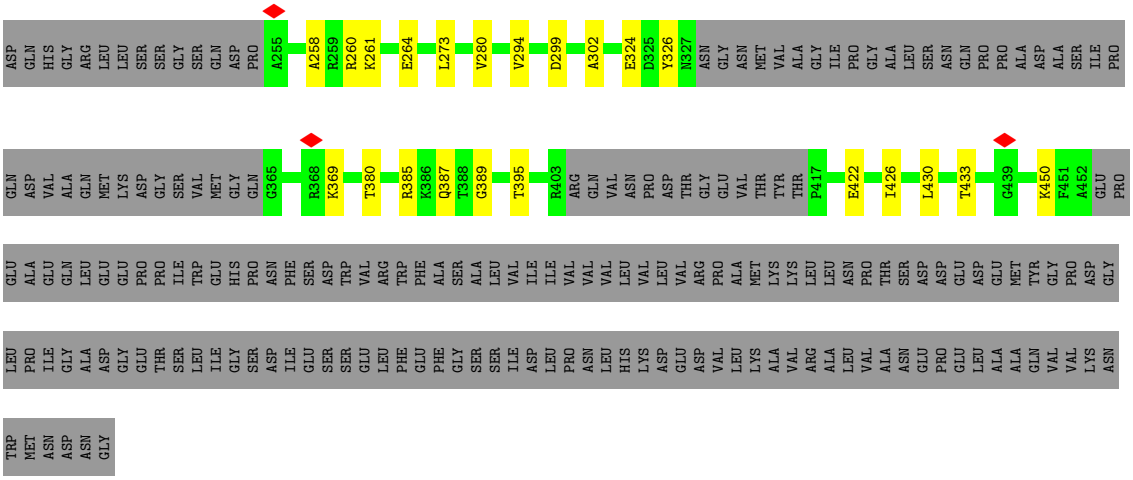
Chain EH:



• Molecule 7: Flagellar M-ring protein

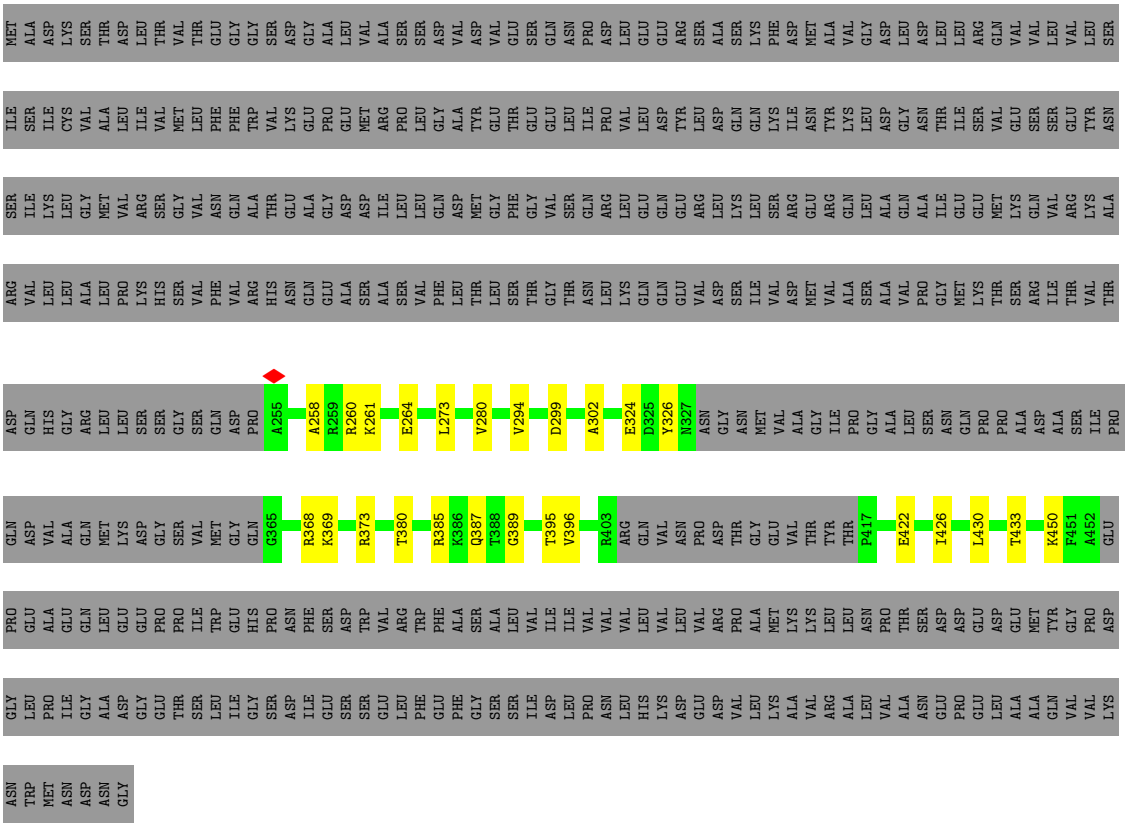
Chain EI:





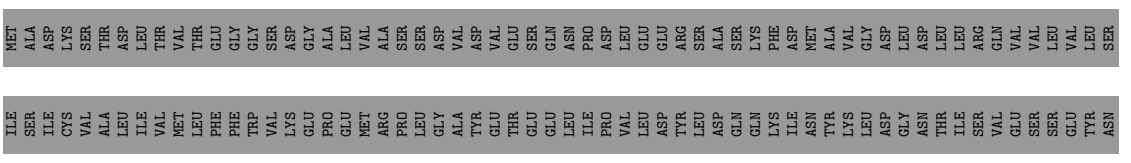
• Molecule 7: Flagellar M-ring protein

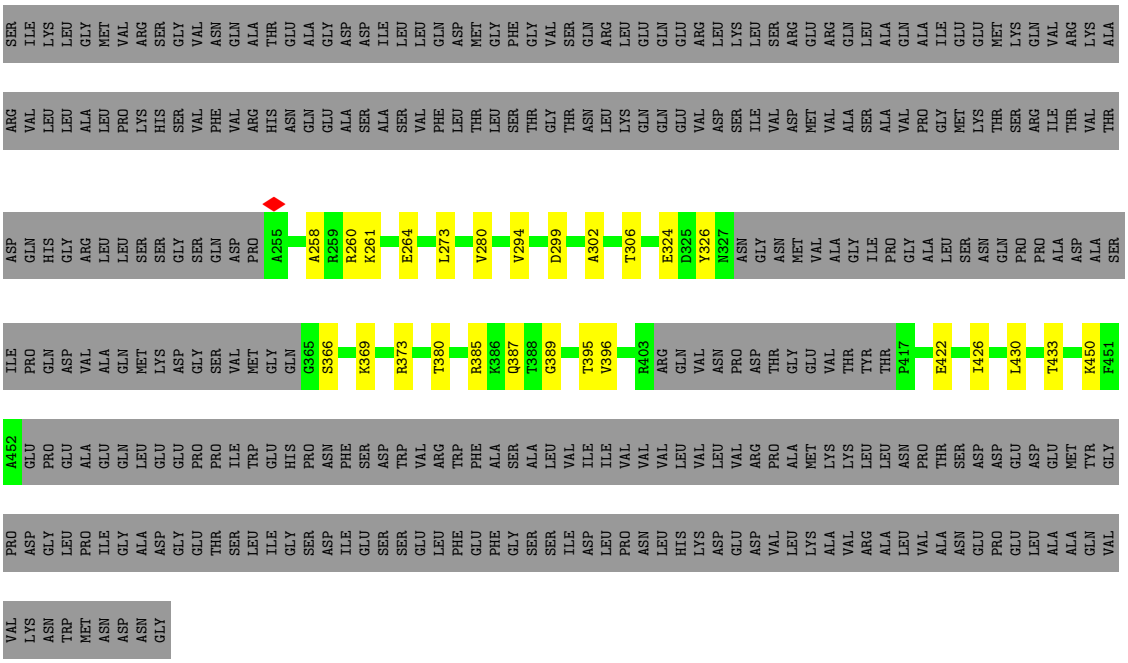
Chain EJ:



• Molecule 7: Flagellar M-ring protein

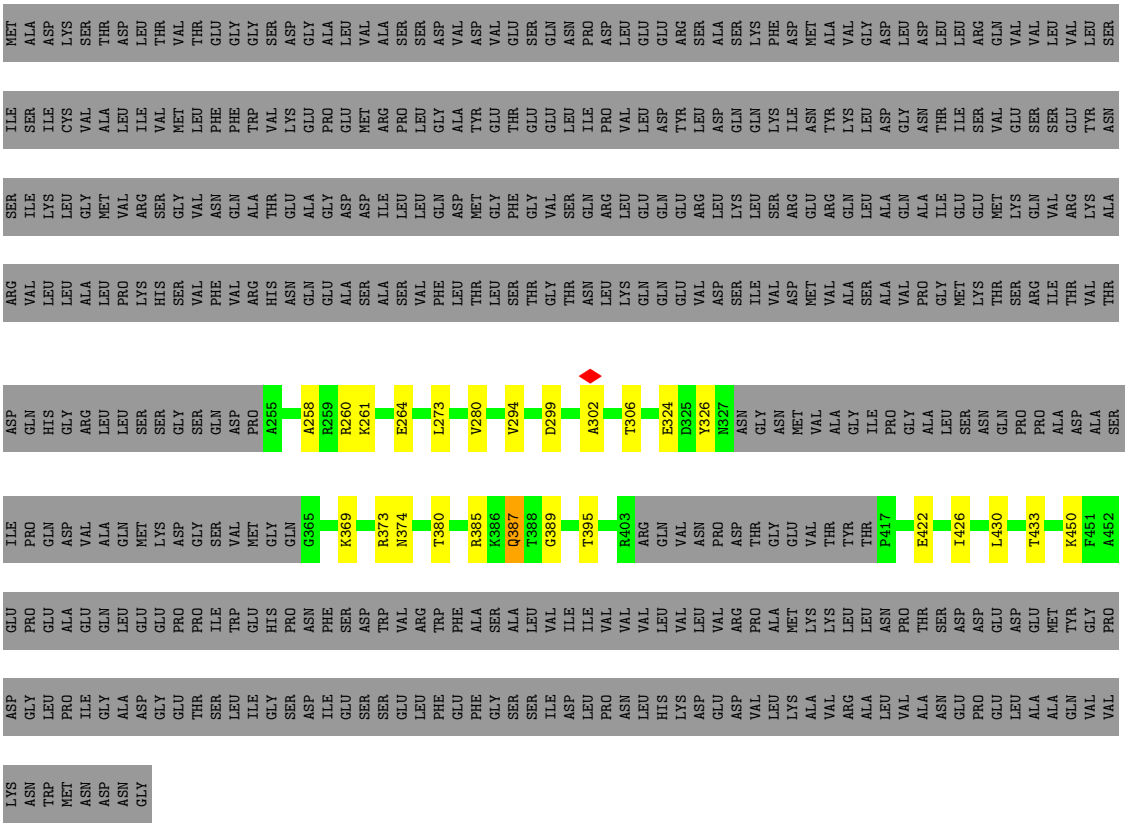
Chain EK:





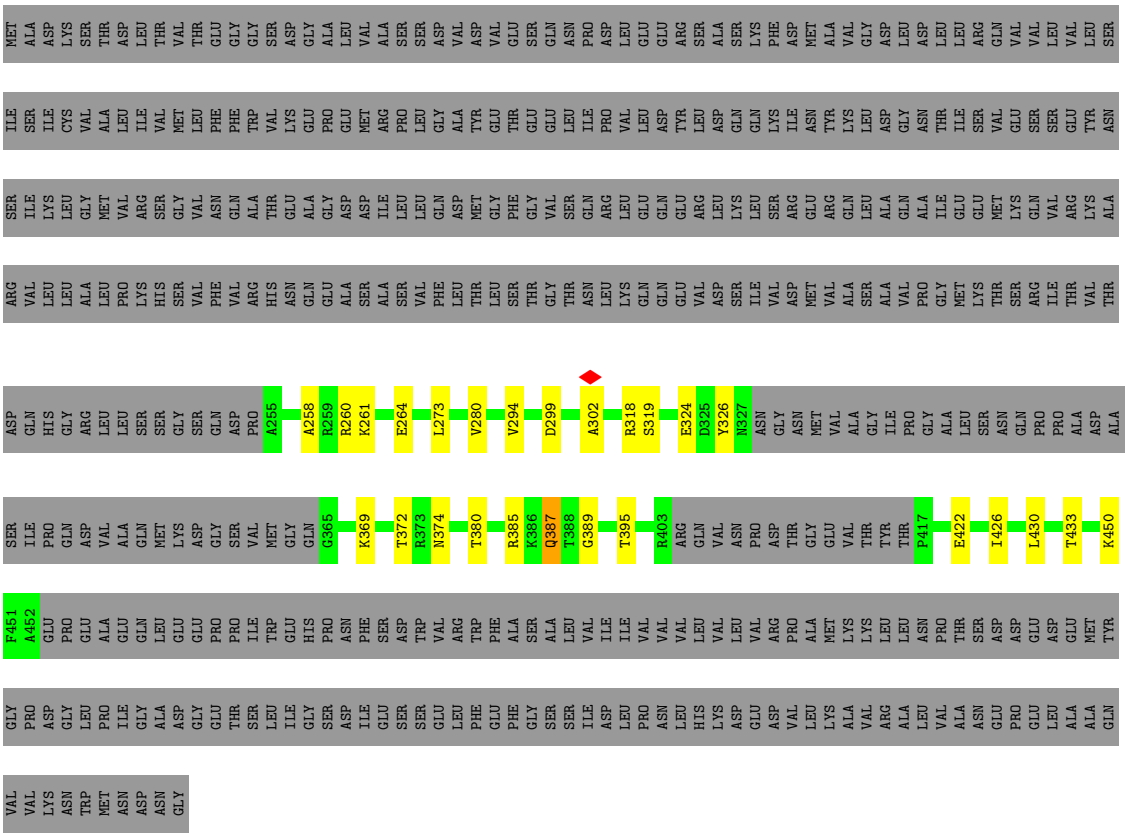
• Molecule 7: Flagellar M-ring protein

Chain EL:



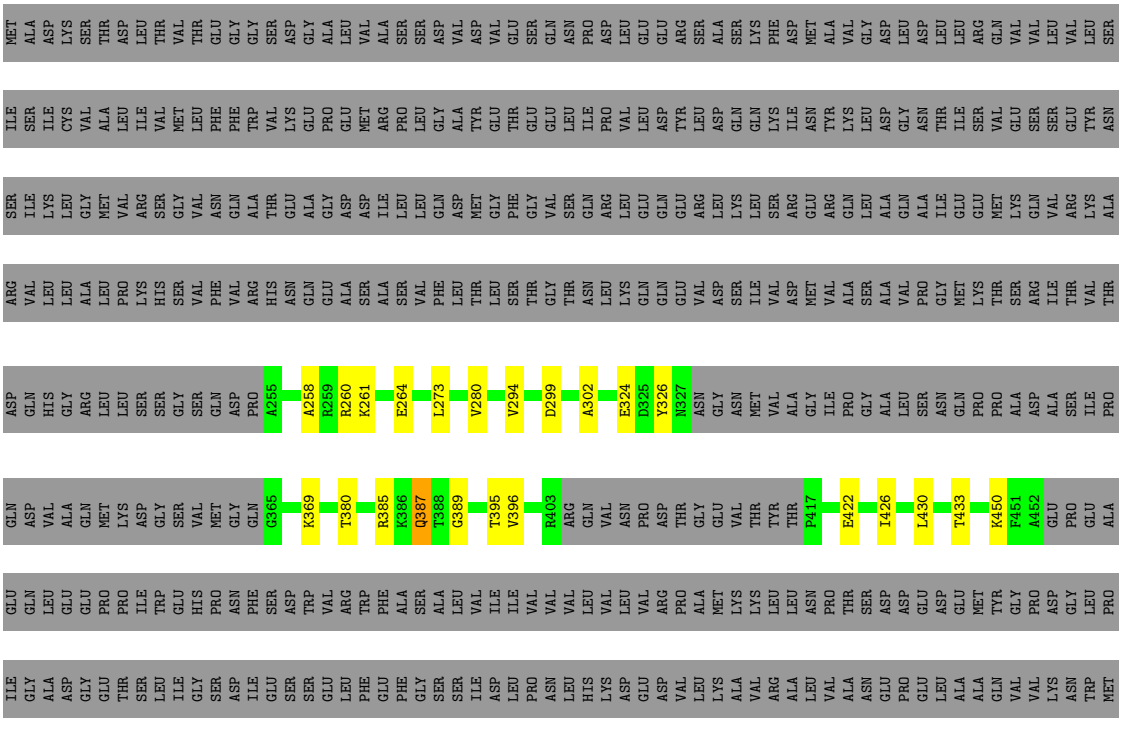
• Molecule 7: Flagellar M-ring protein

Chain EM:



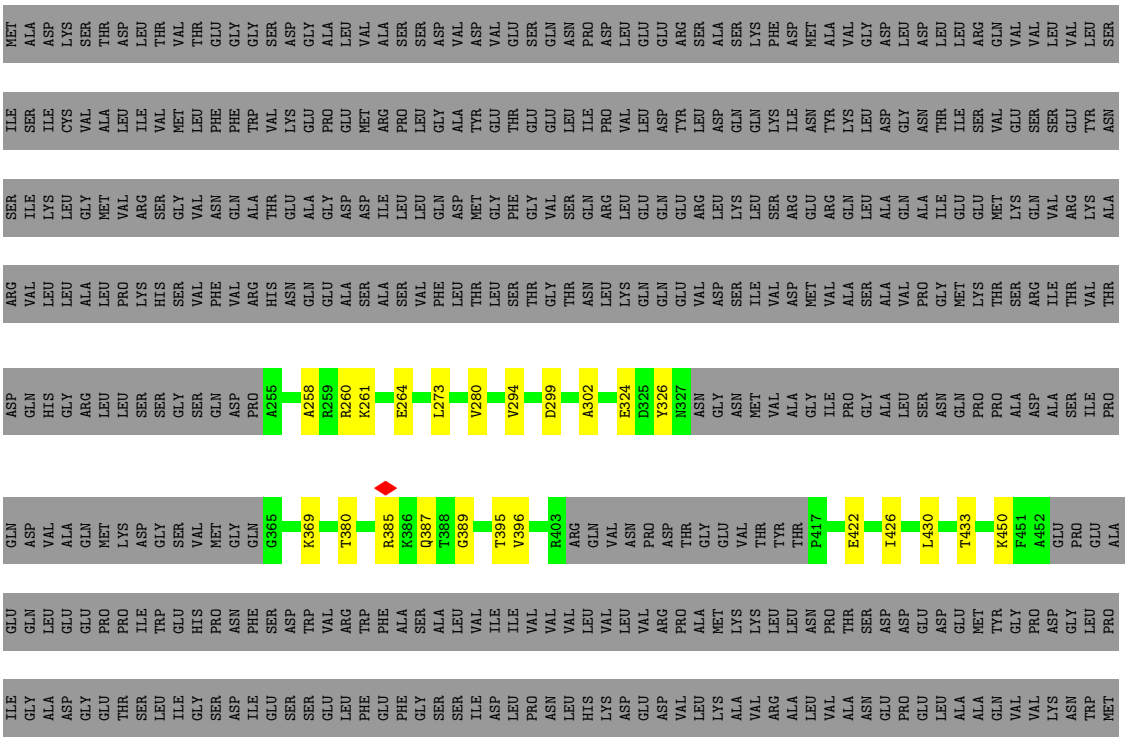
• Molecule 7: Flagellar M-ring protein

Chain EN:



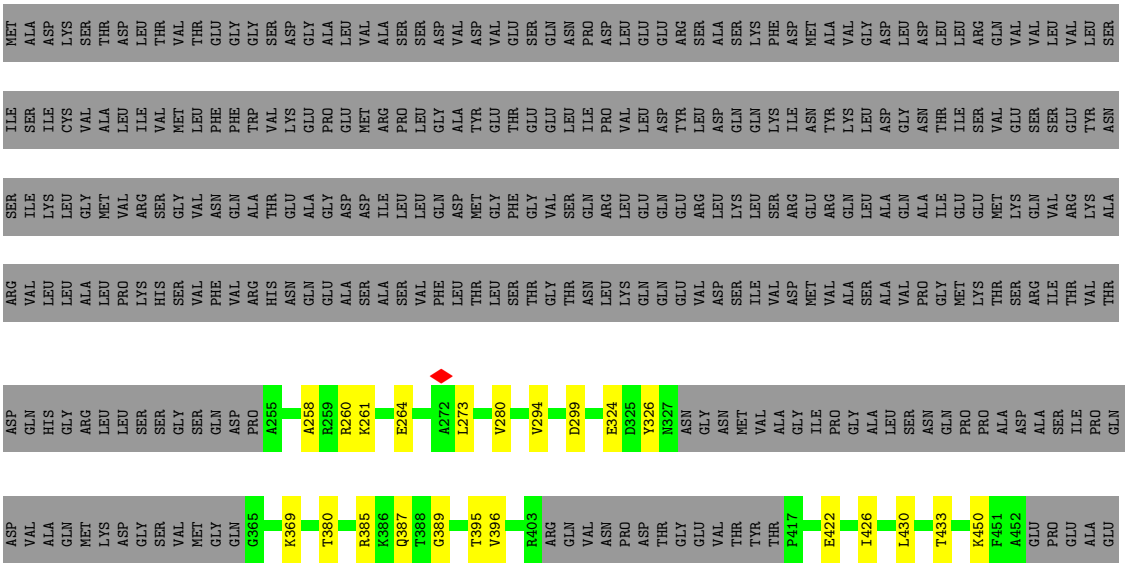
• Molecule 7: Flagellar M-ring protein

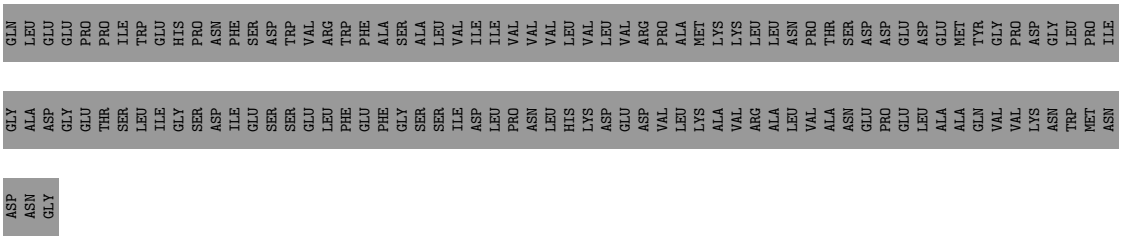
Chain EO:



• Molecule 7: Flagellar M-ring protein

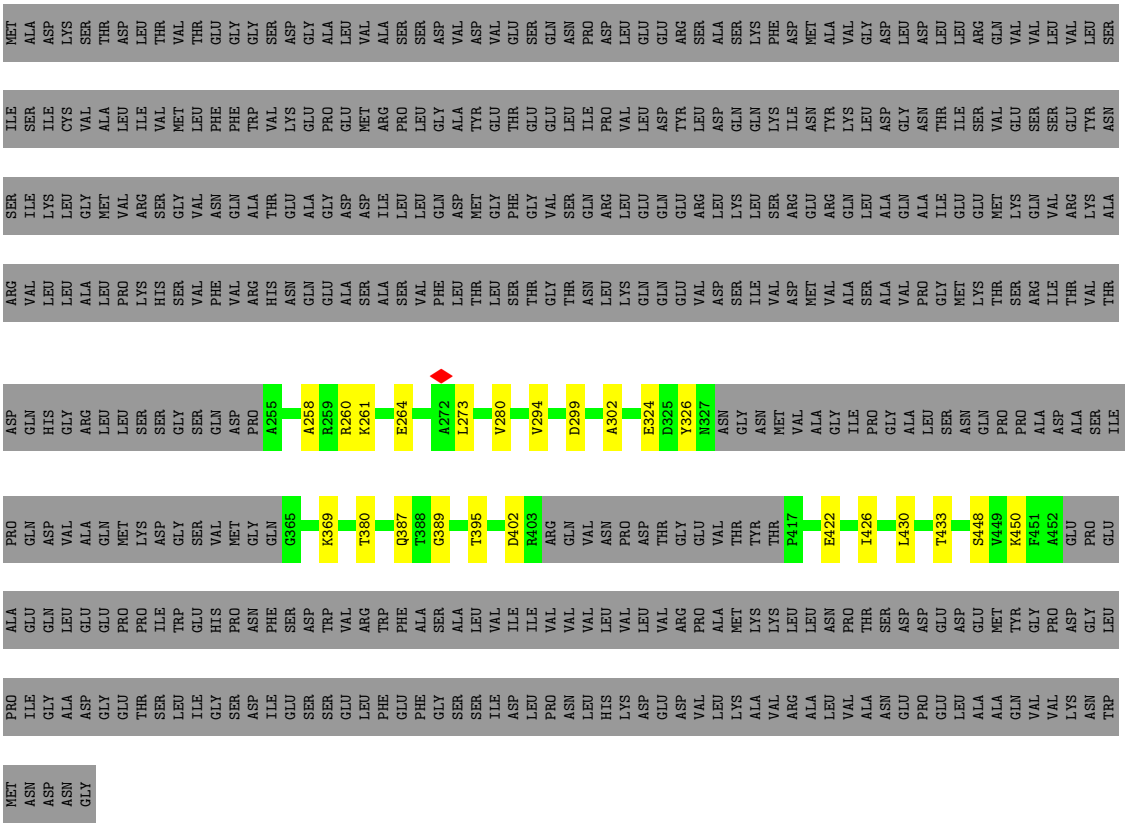
Chain EP:





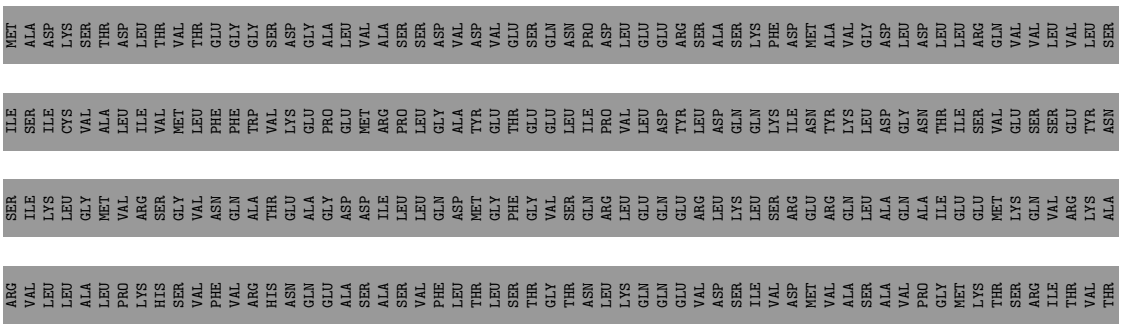
• Molecule 7: Flagellar M-ring protein

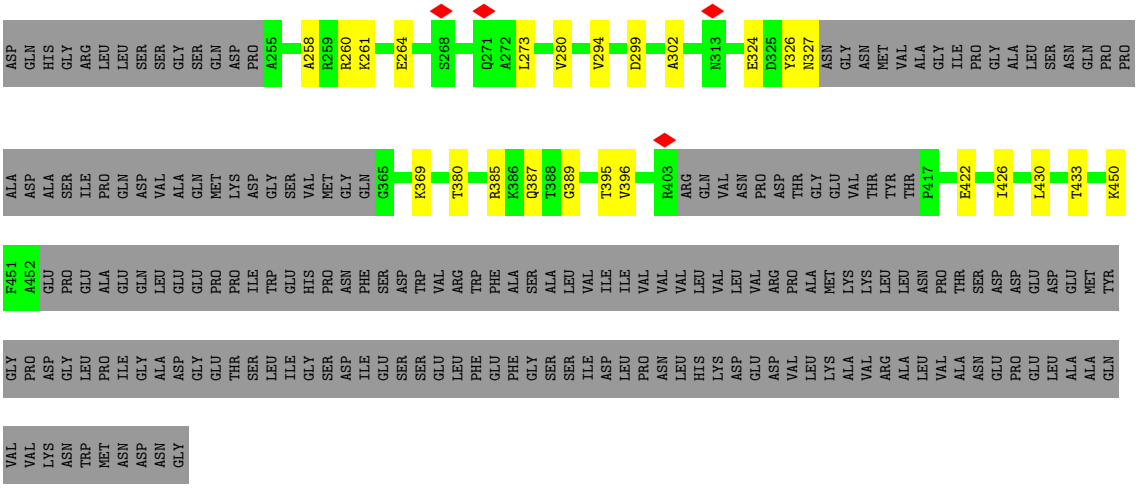
Chain EQ: 22% 74%



• Molecule 7: Flagellar M-ring protein

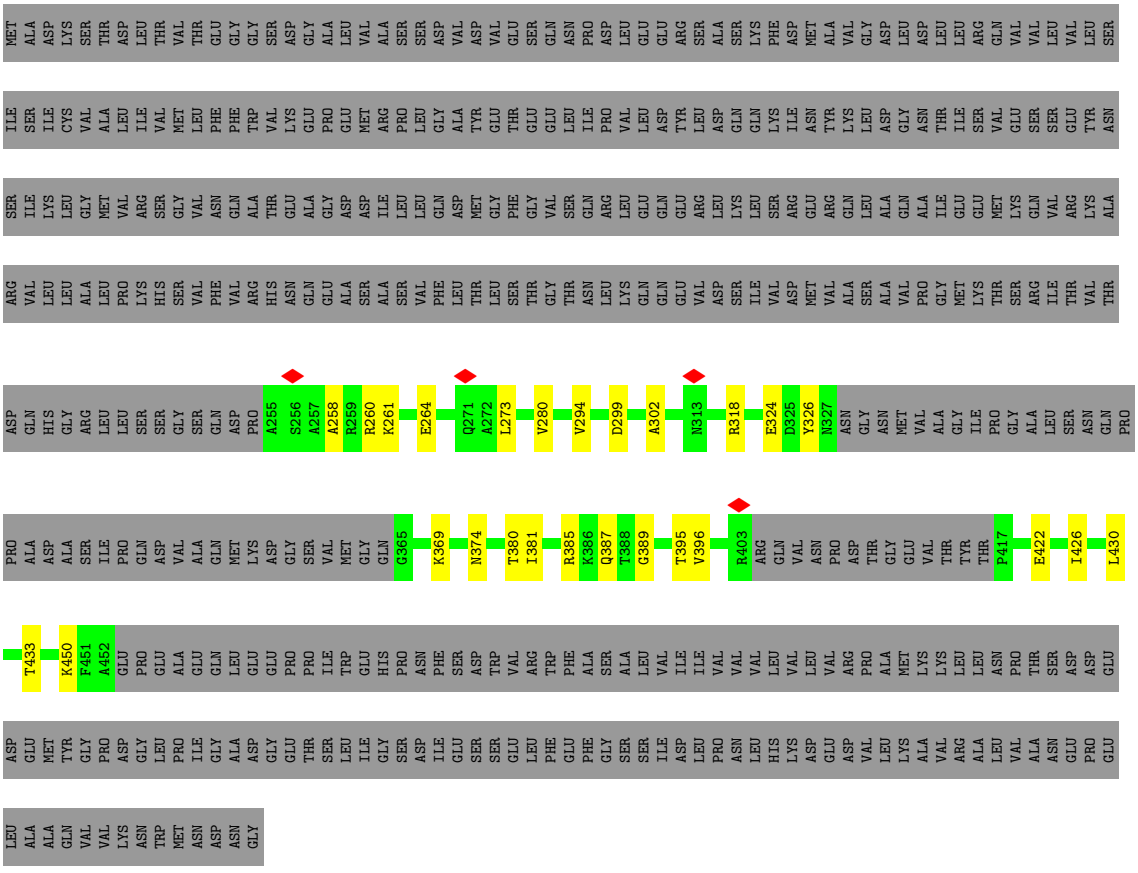
Chain ER: 21% 74%





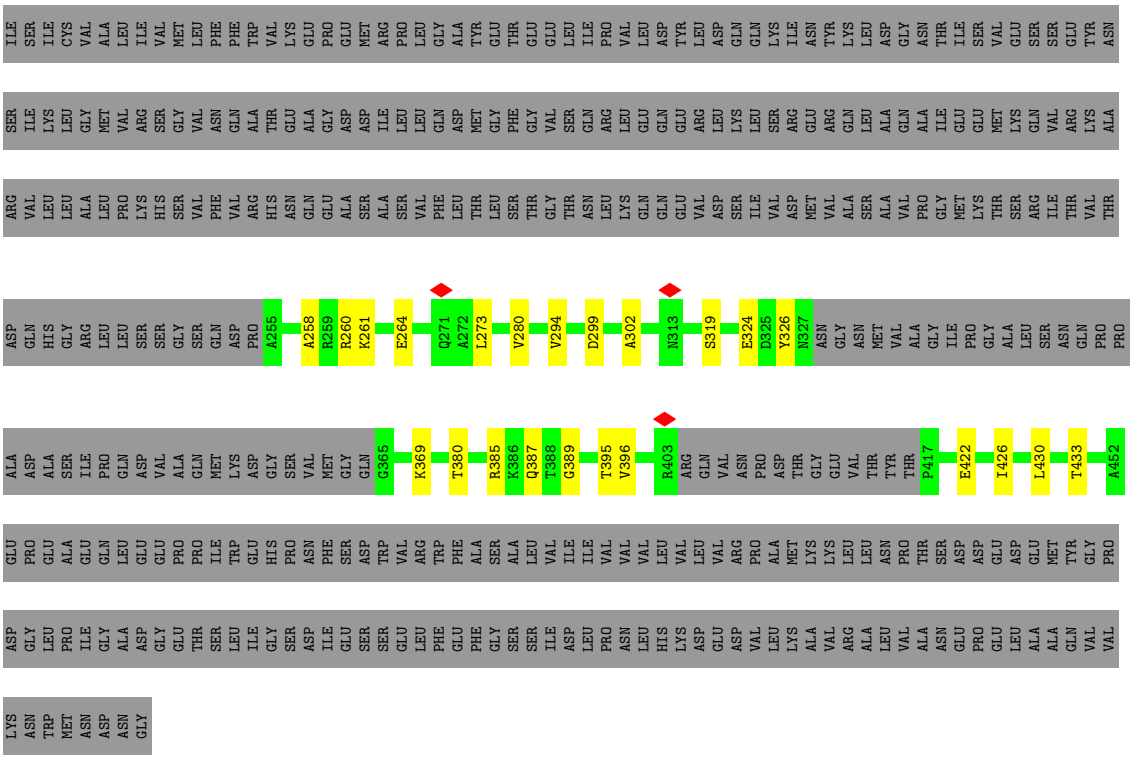
• Molecule 7: Flagellar M-ring protein

Chain ES:



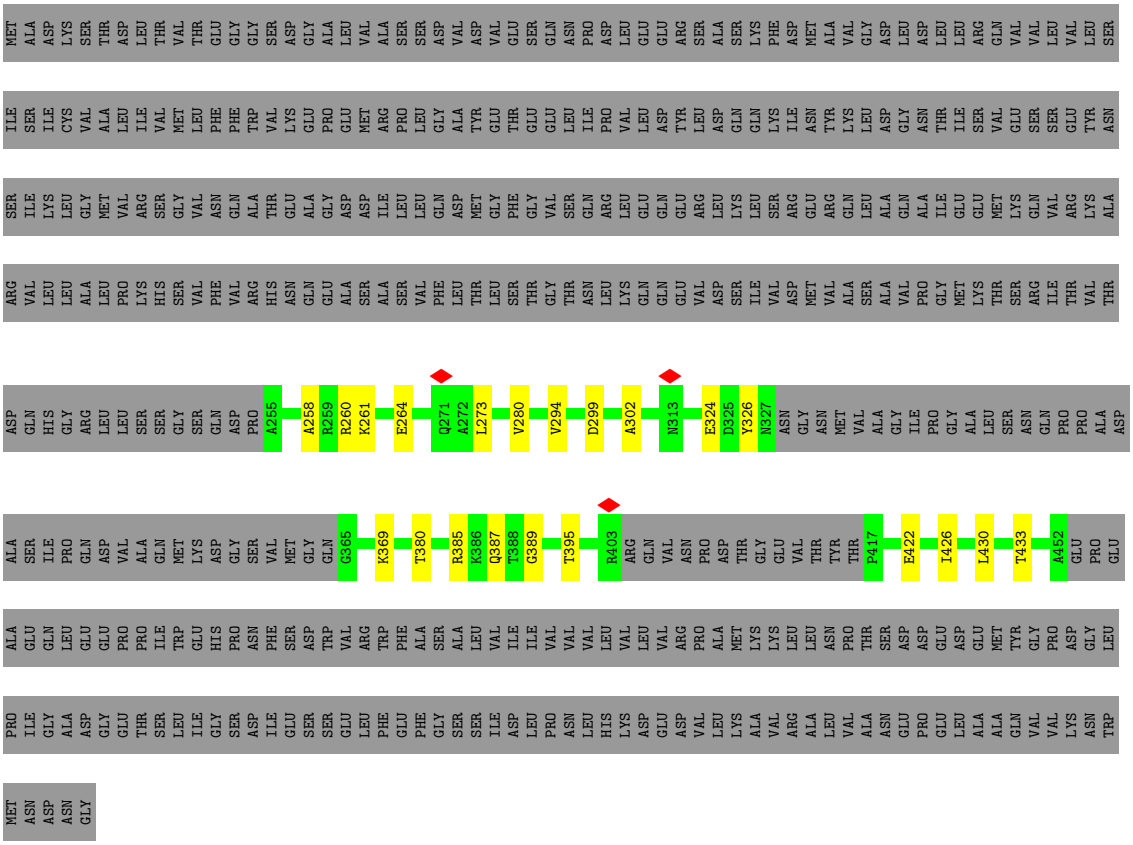
• Molecule 7: Flagellar M-ring protein

Chain ET:



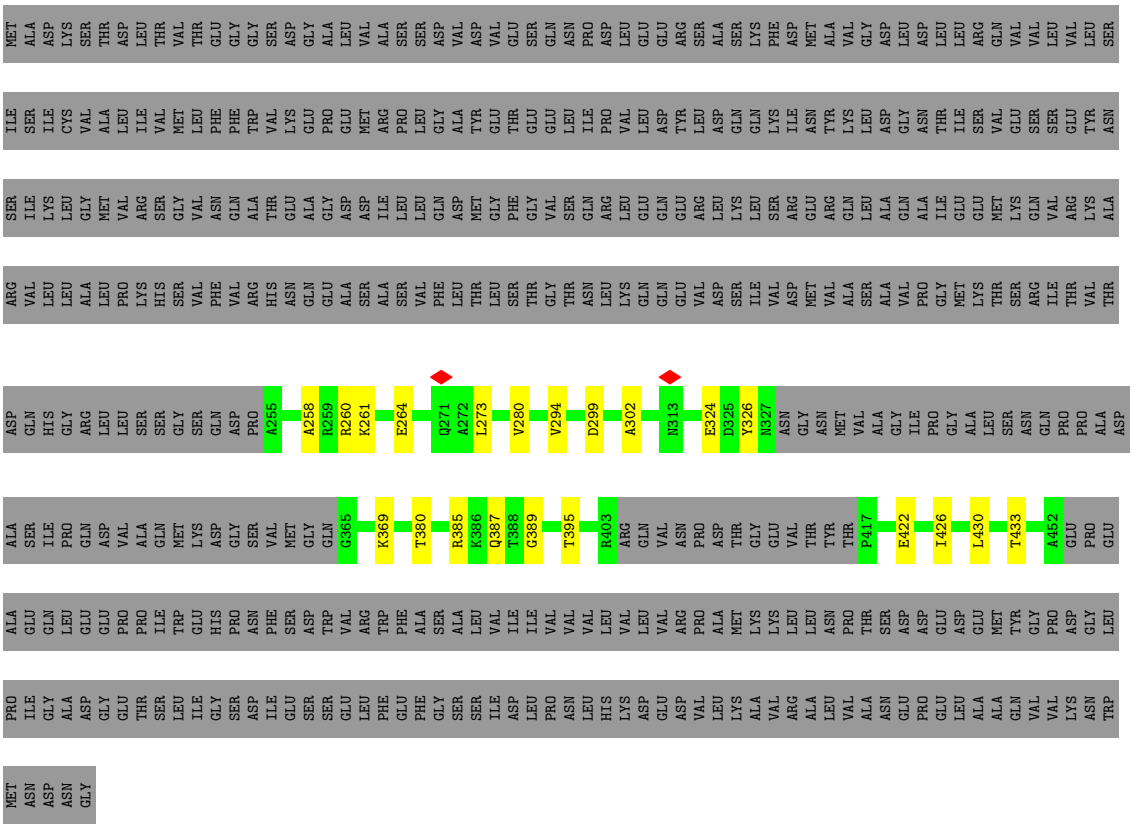
• Molecule 7: Flagellar M-ring protein

Chain EU:



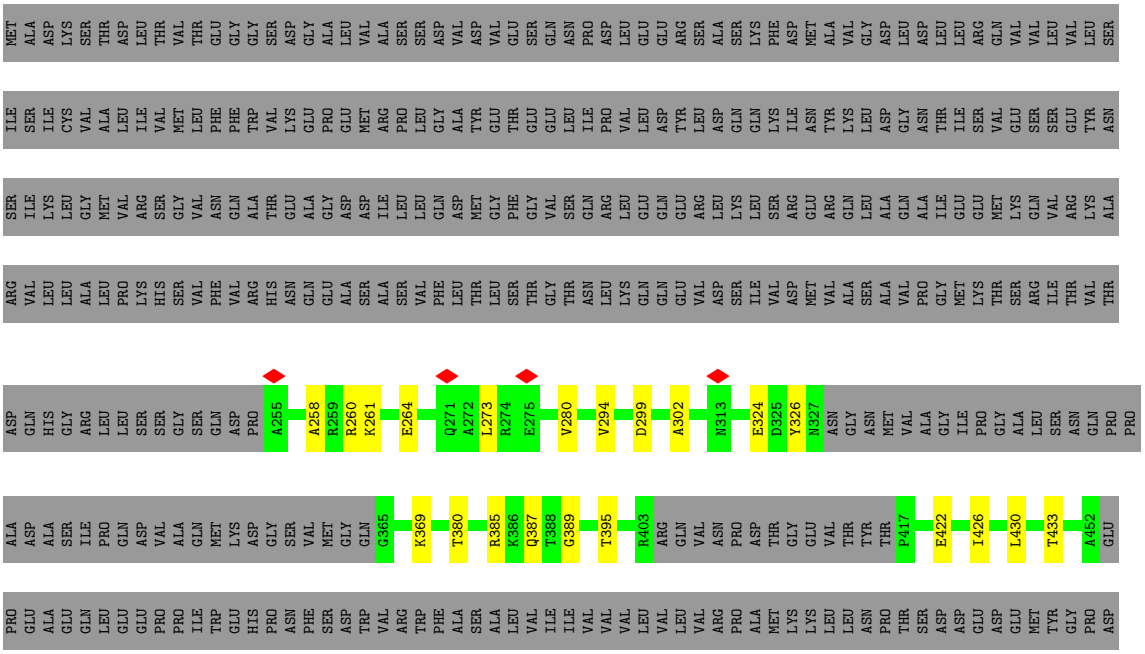
• Molecule 7: Flagellar M-ring protein

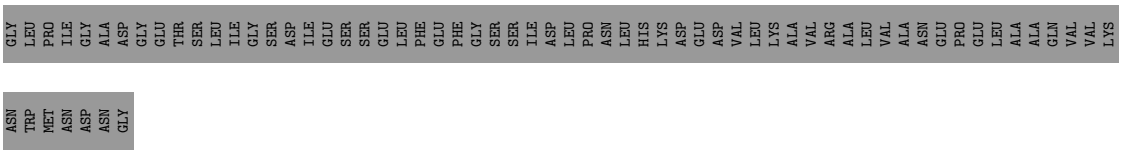
Chain EV:



• Molecule 7: Flagellar M-ring protein

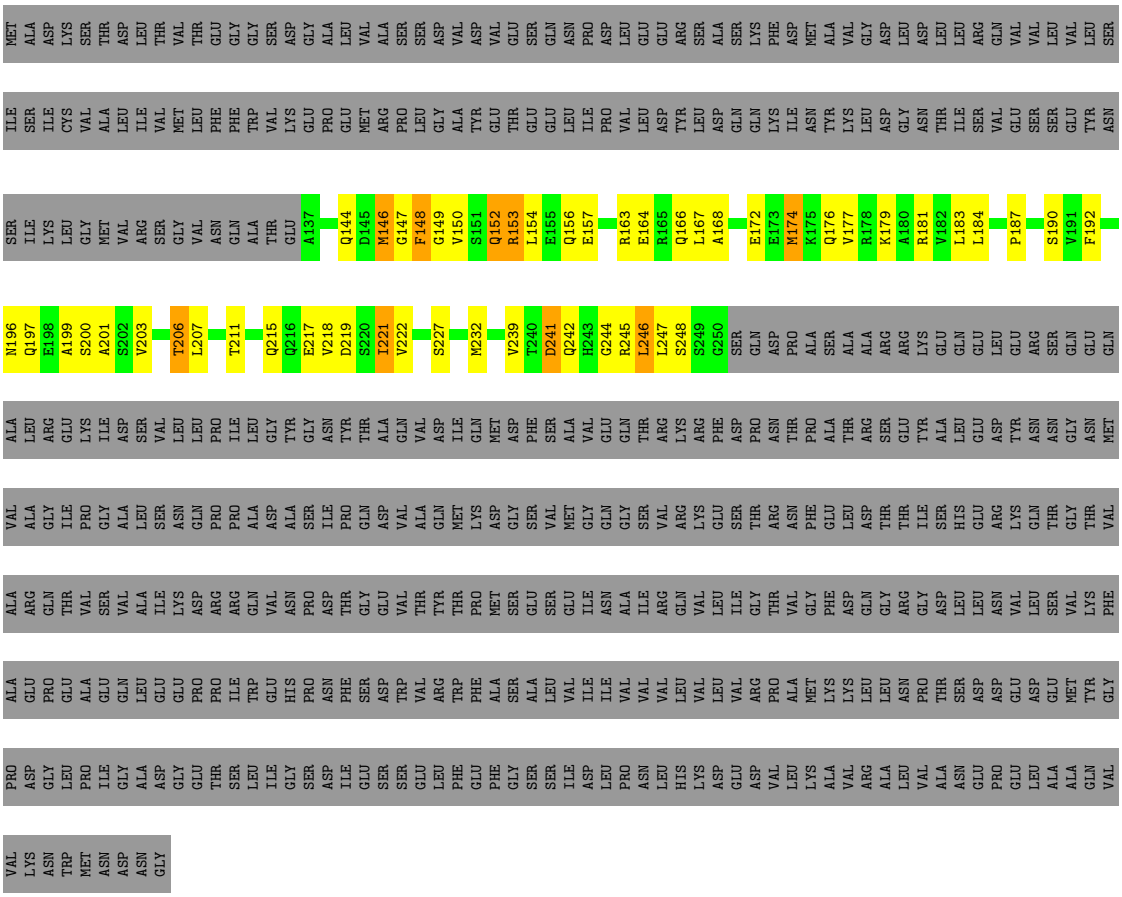
Chain EW:





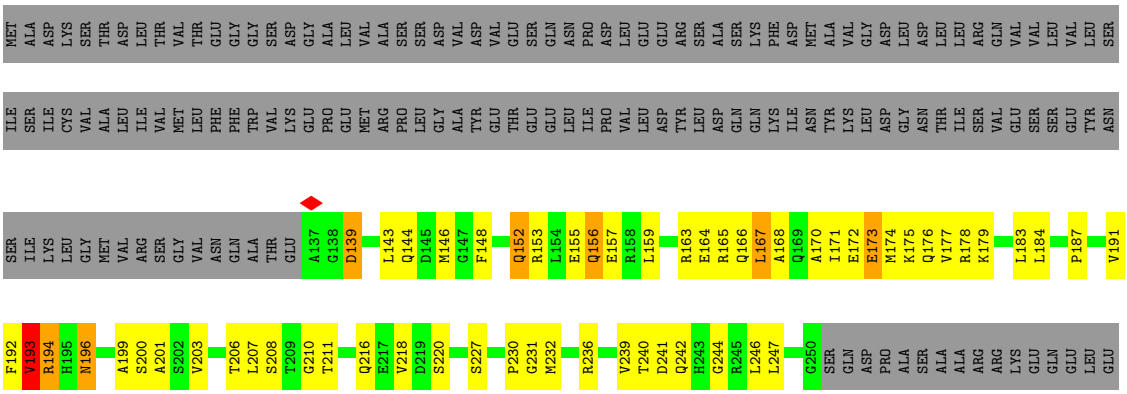
• Molecule 7: Flagellar M-ring protein

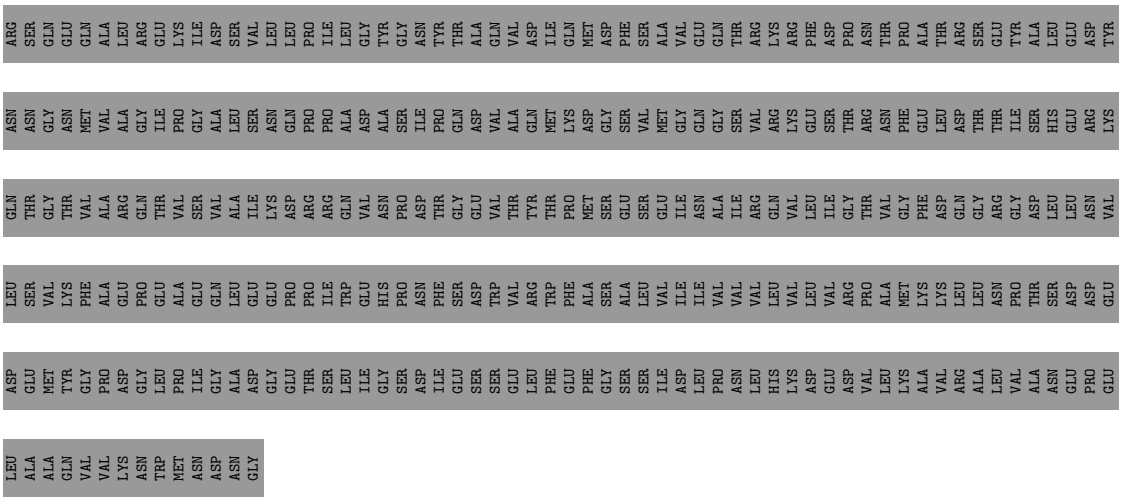
Chain EX:



• Molecule 7: Flagellar M-ring protein

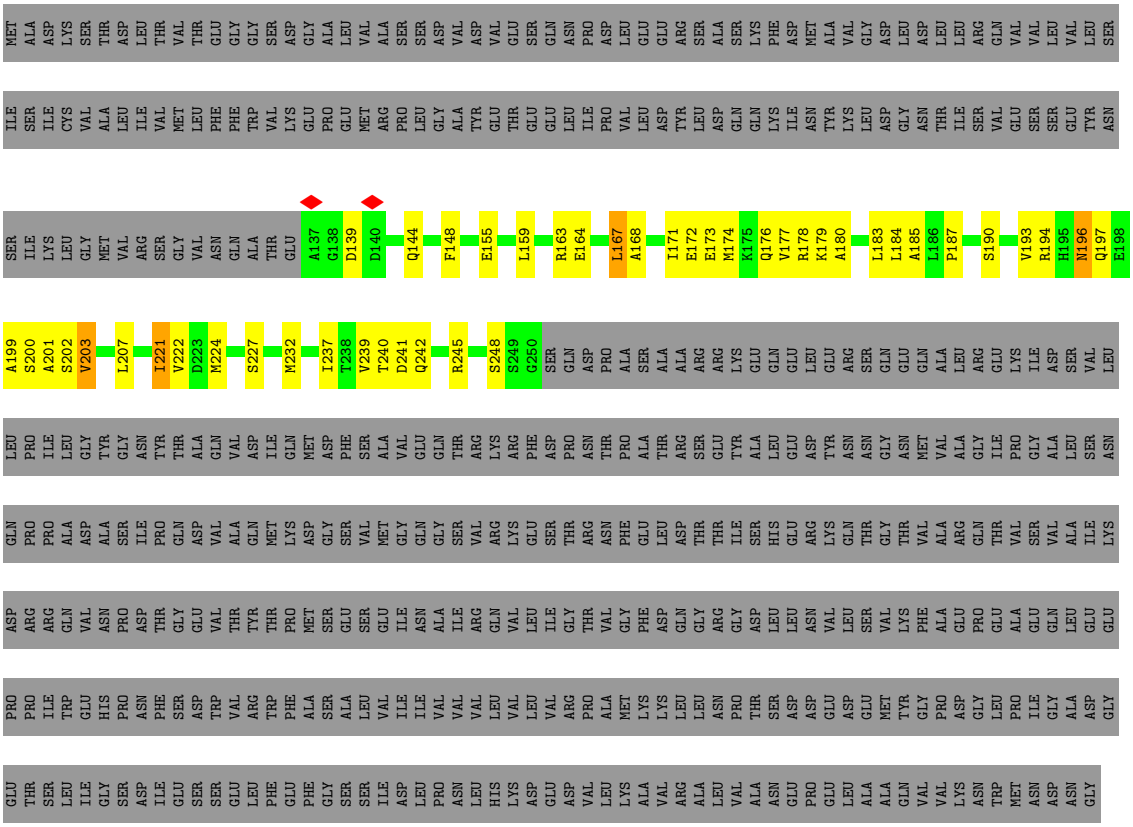
Chain EY:





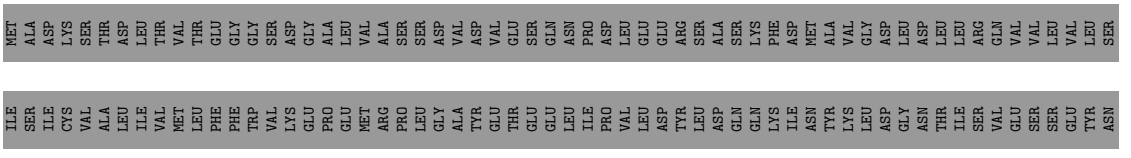
• Molecule 7: Flagellar M-ring protein

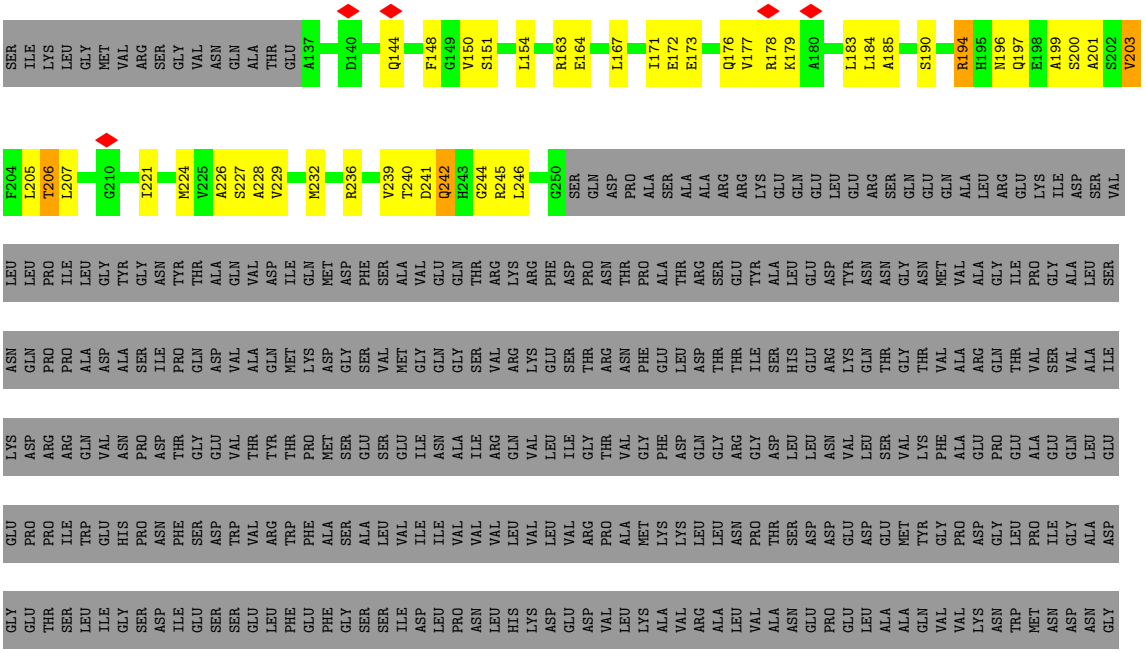
Chain EZ: 12% 7% • 80%



• Molecule 7: Flagellar M-ring protein

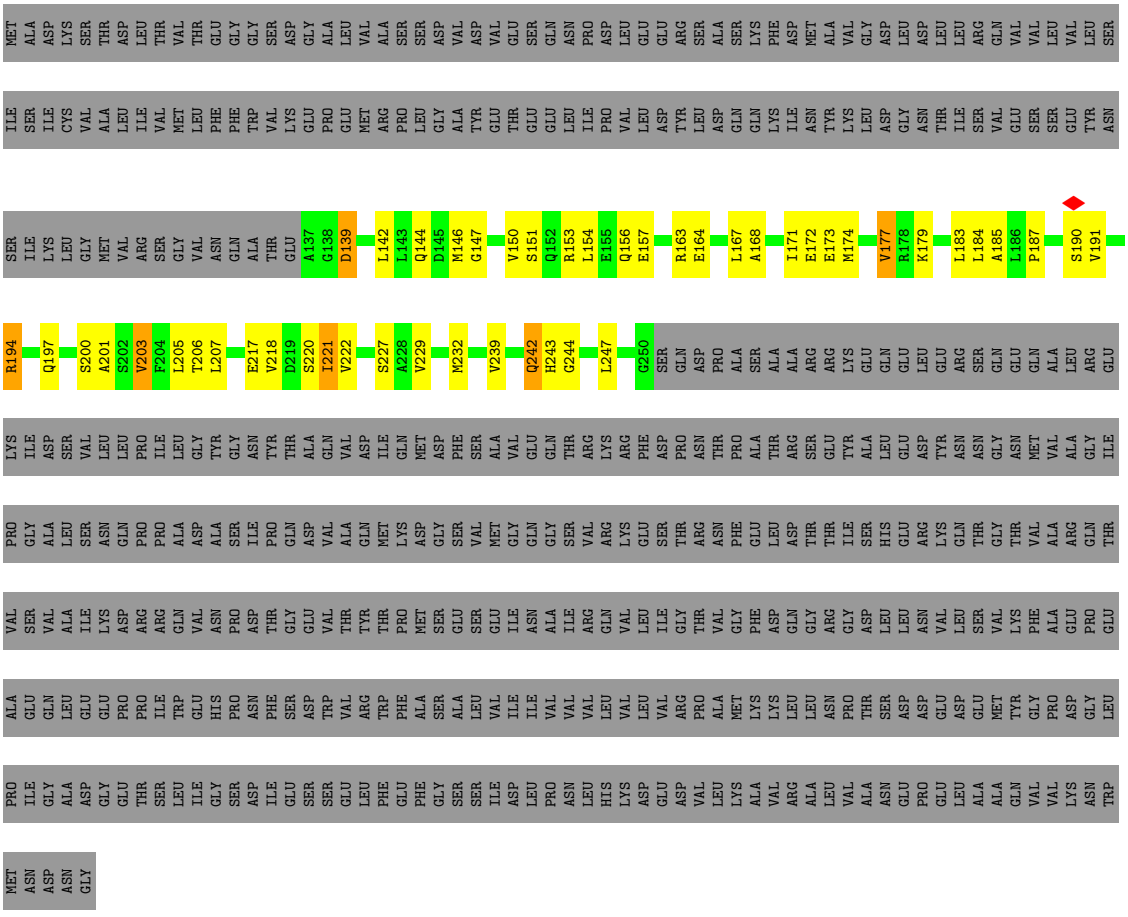
Chain Ea: 12% 7% • 80%





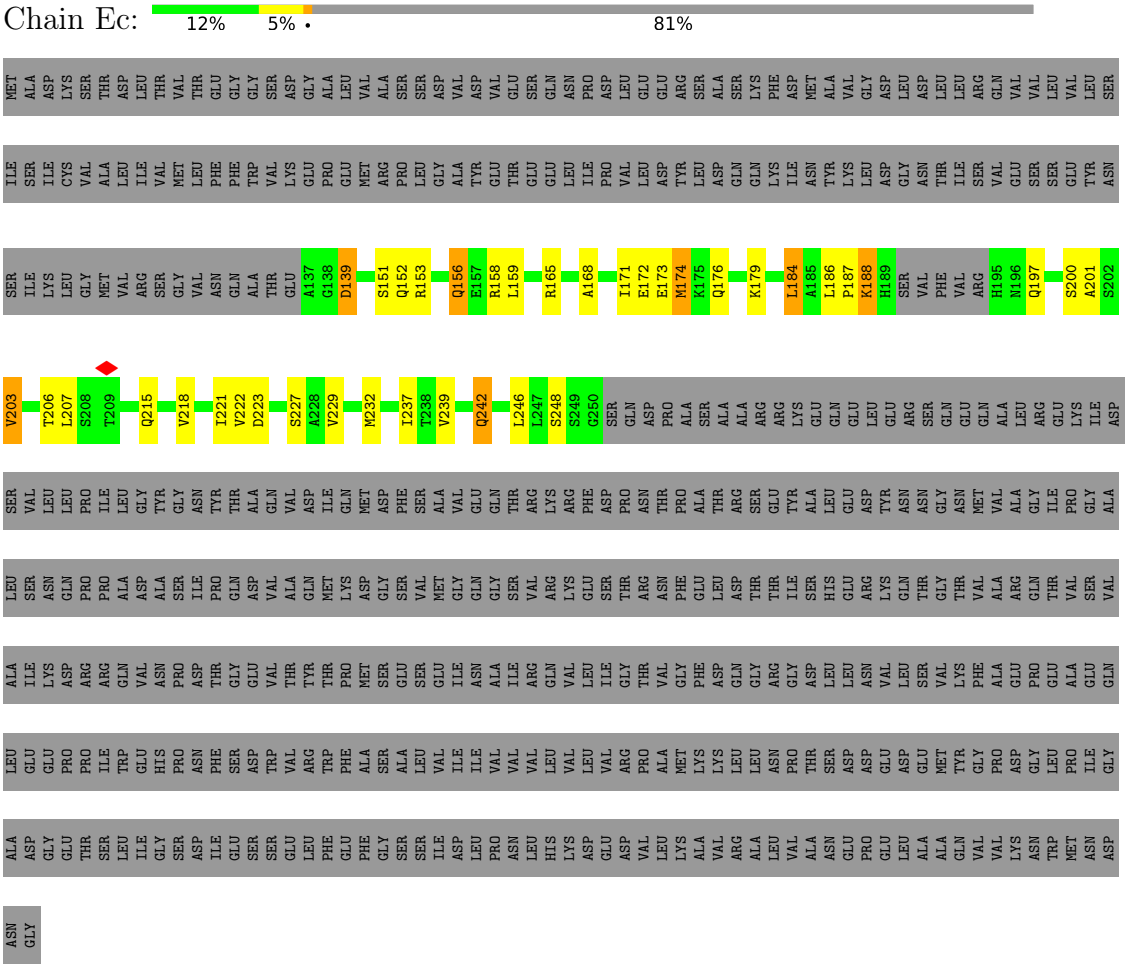
• Molecule 7: Flagellar M-ring protein

Chain Eb:



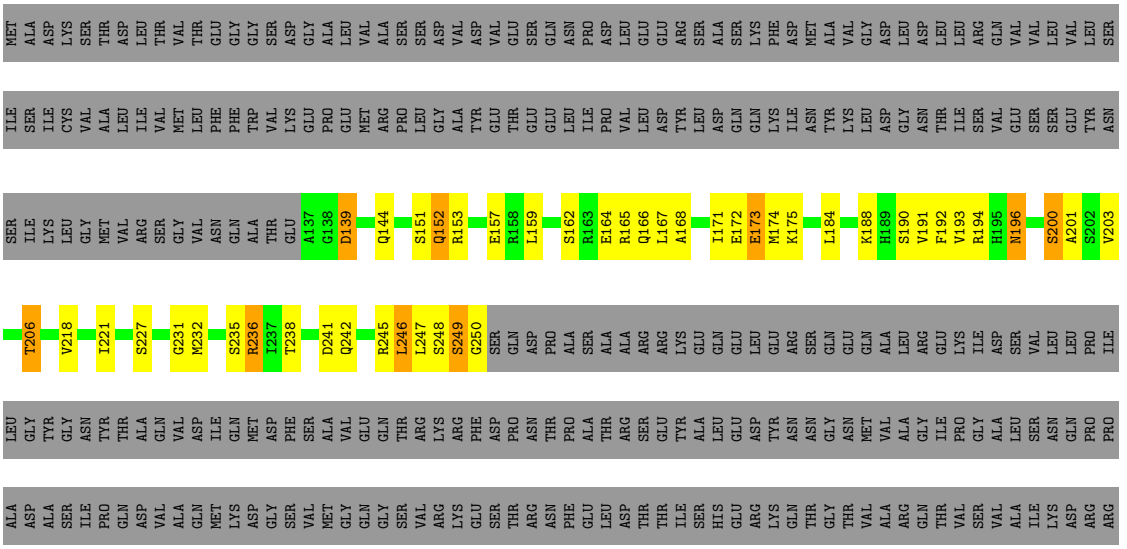
• Molecule 7: Flagellar M-ring protein

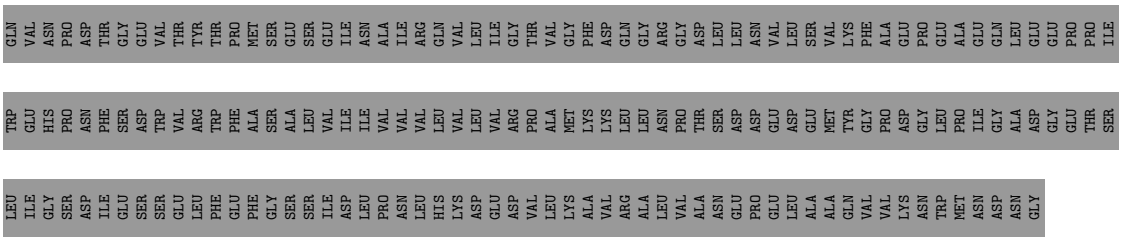
Chain Ec:



• Molecule 7: Flagellar M-ring protein

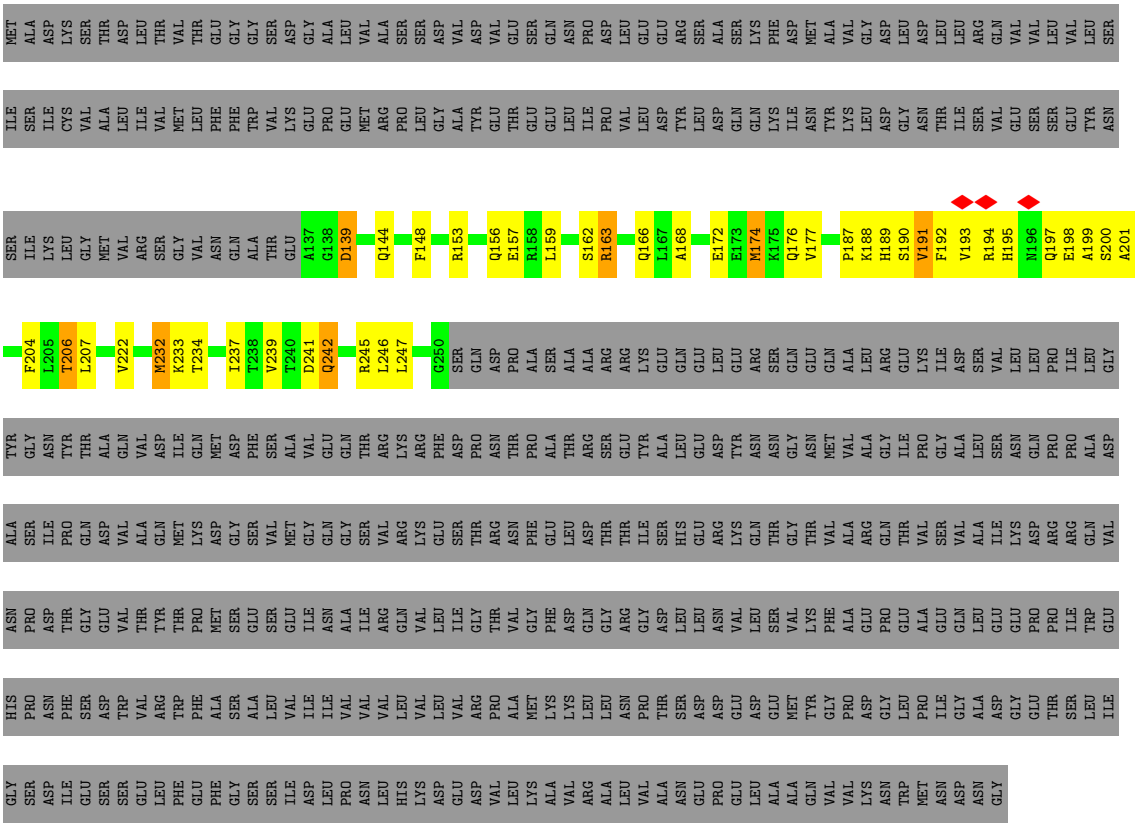
Chain Ed:





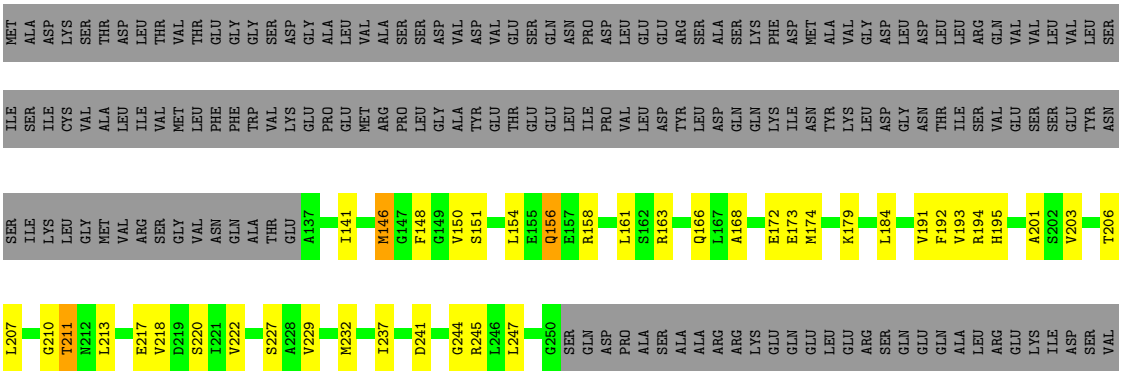
• Molecule 7: Flagellar M-ring protein

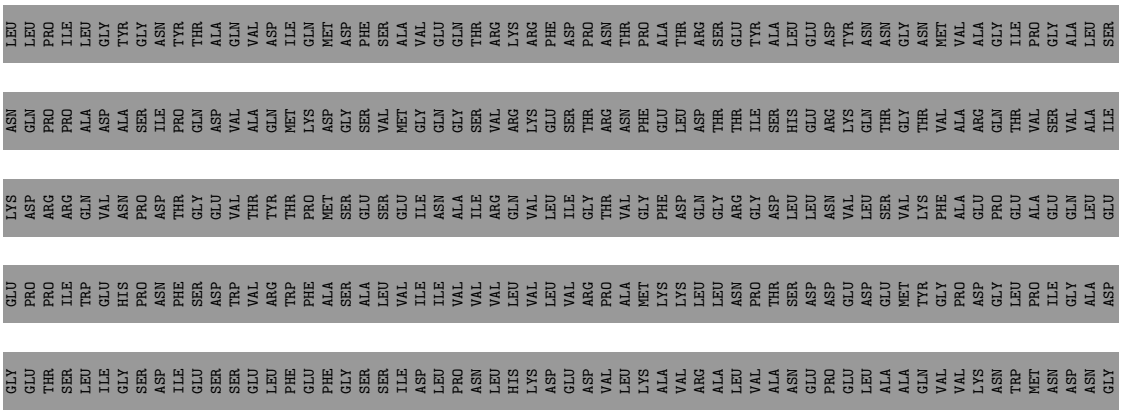
Chain Ee:



• Molecule 7: Flagellar M-ring protein

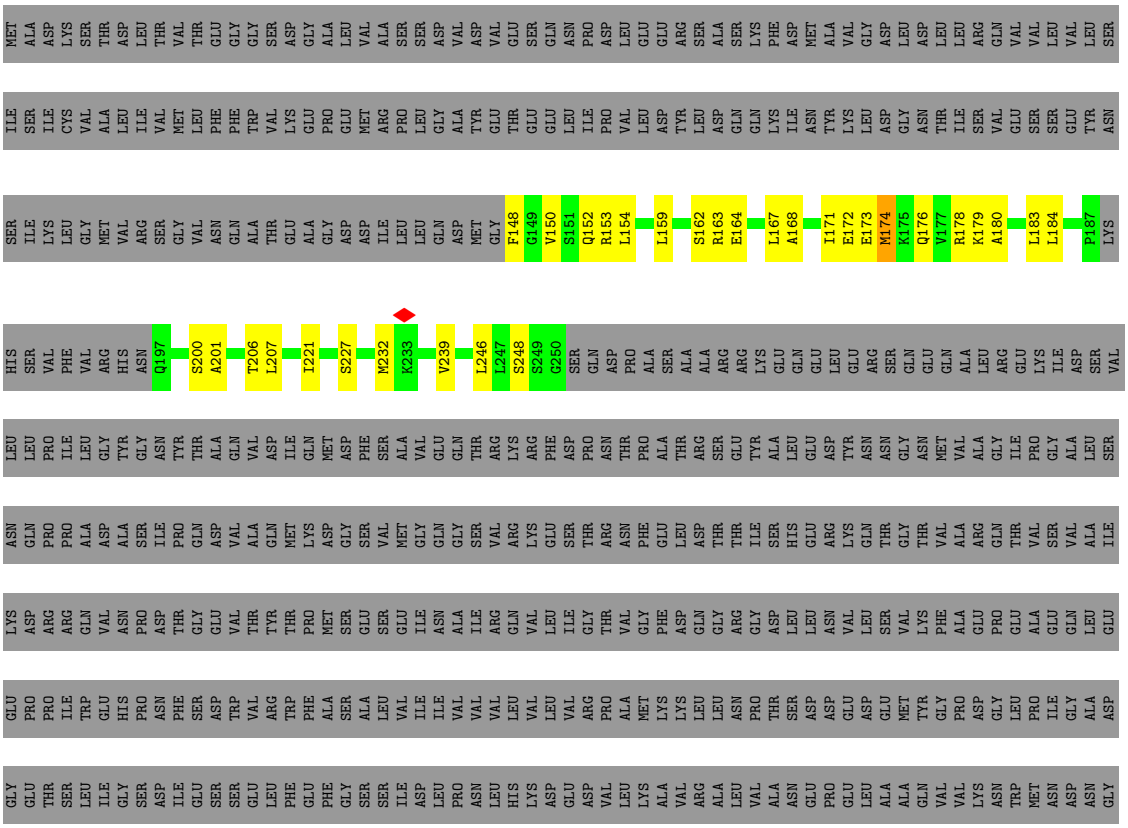
Chain Ef:





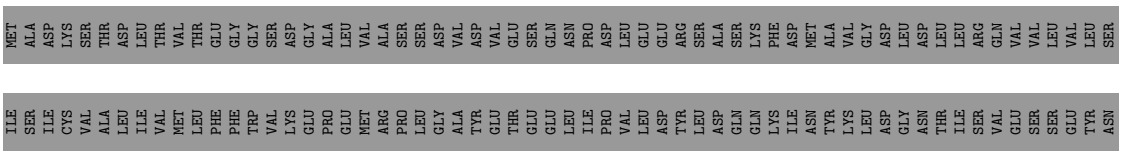
• Molecule 7: Flagellar M-ring protein

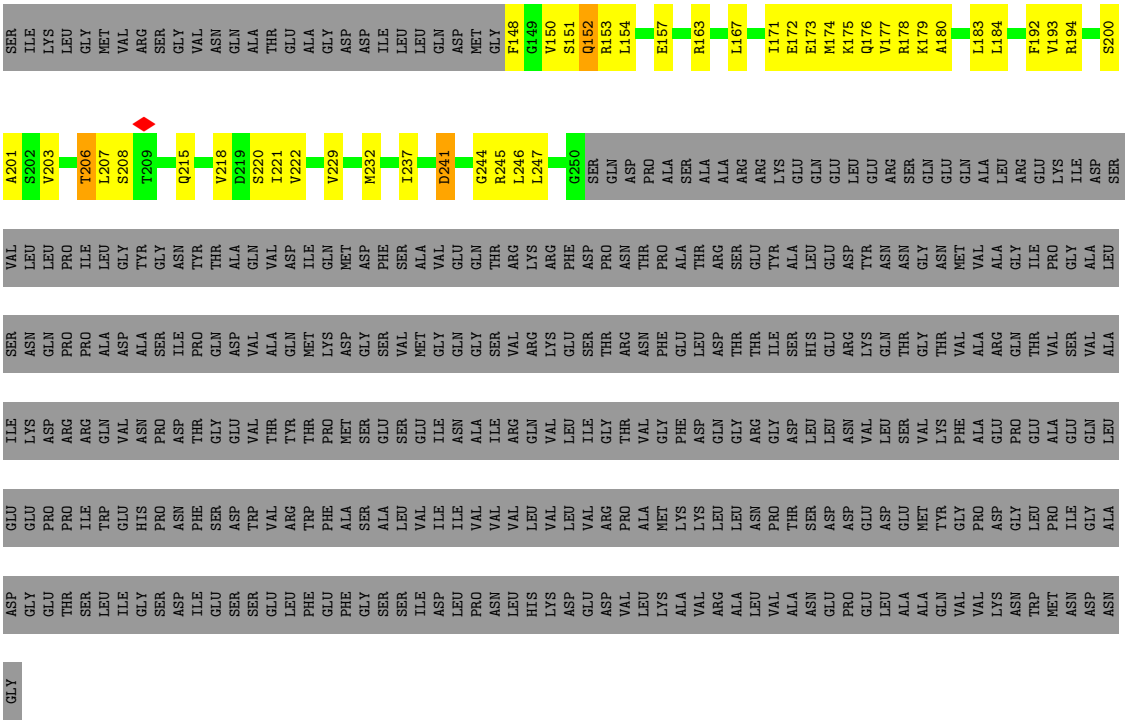
Chain Eg:



• Molecule 7: Flagellar M-ring protein

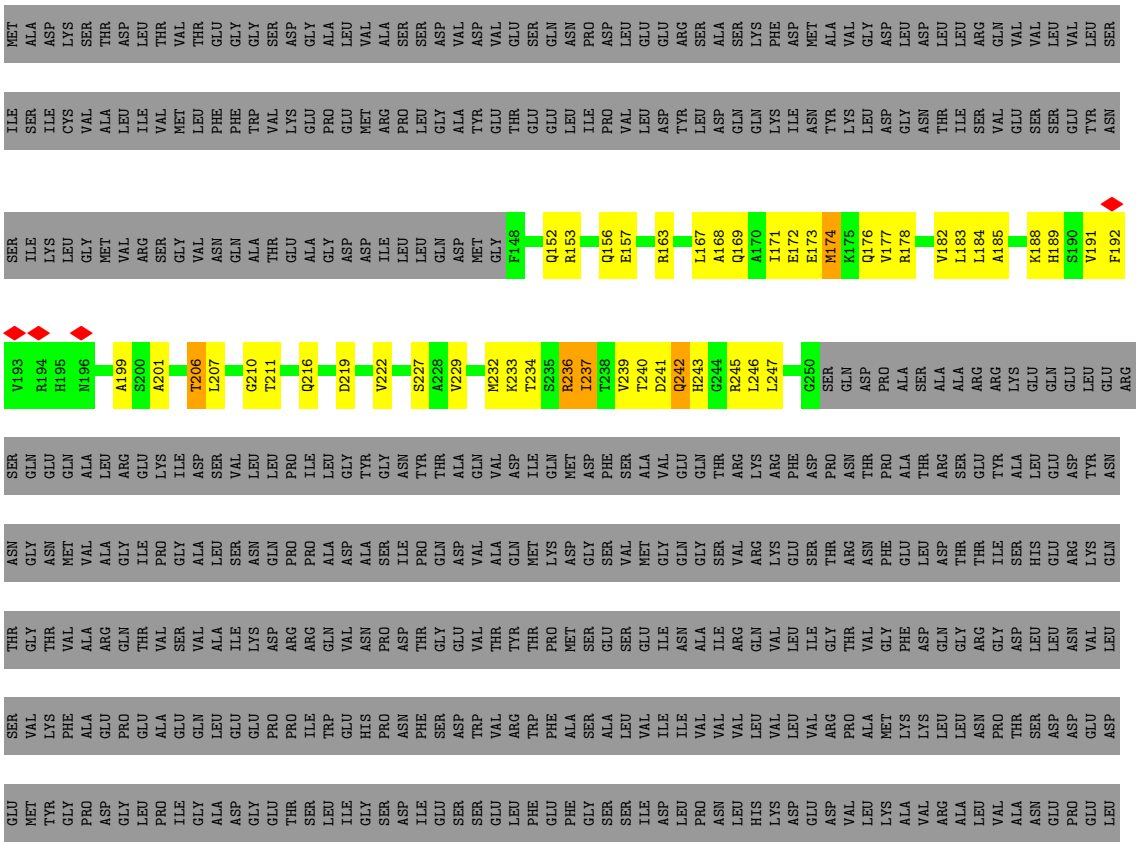
Chain Eh:





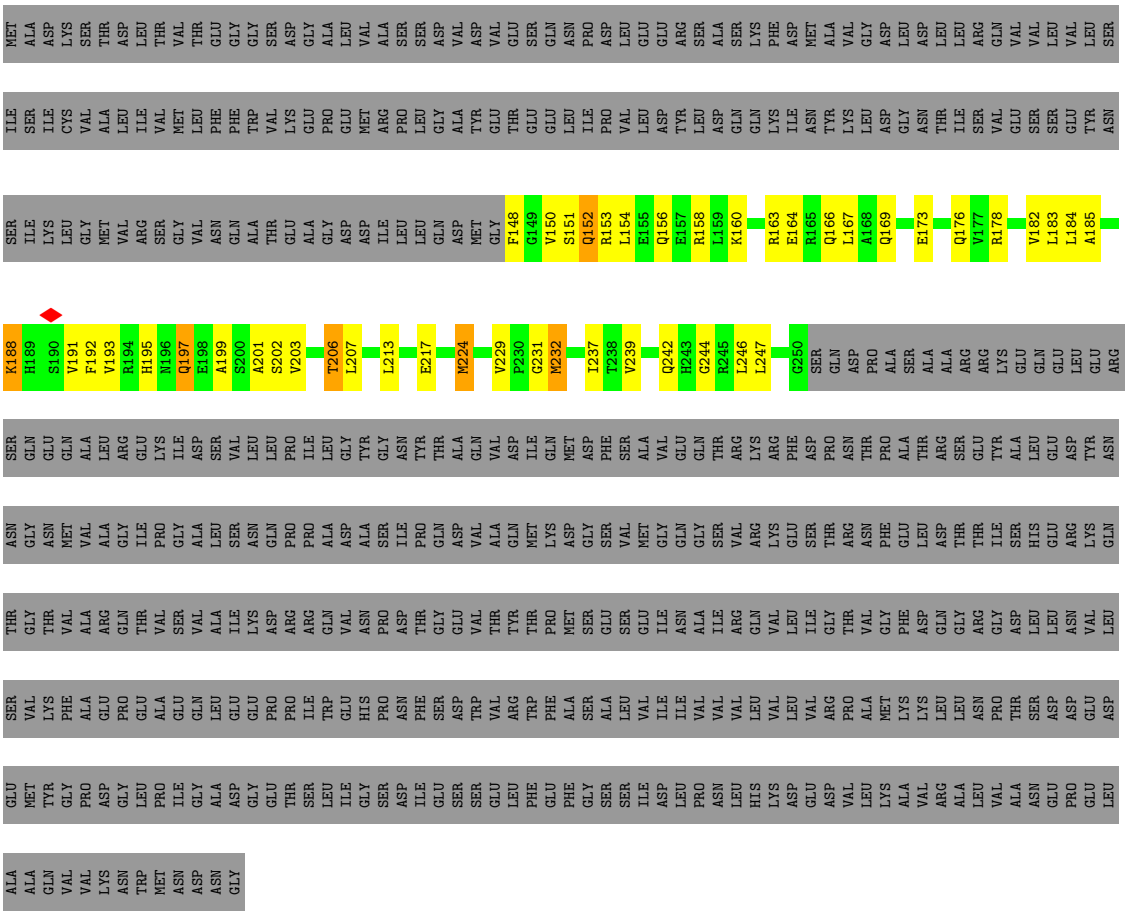
• Molecule 7: Flagellar M-ring protein

Chain Ei:



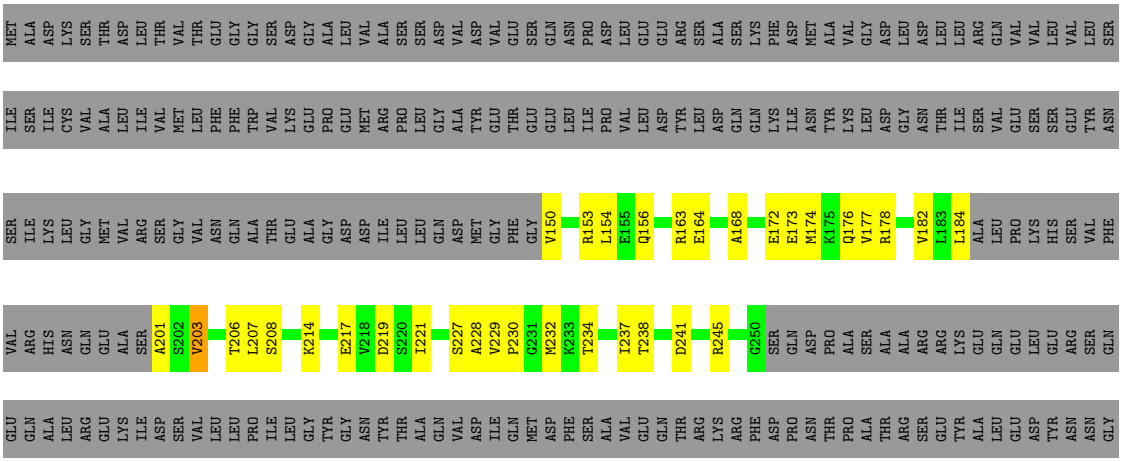
• Molecule 7: Flagellar M-ring protein

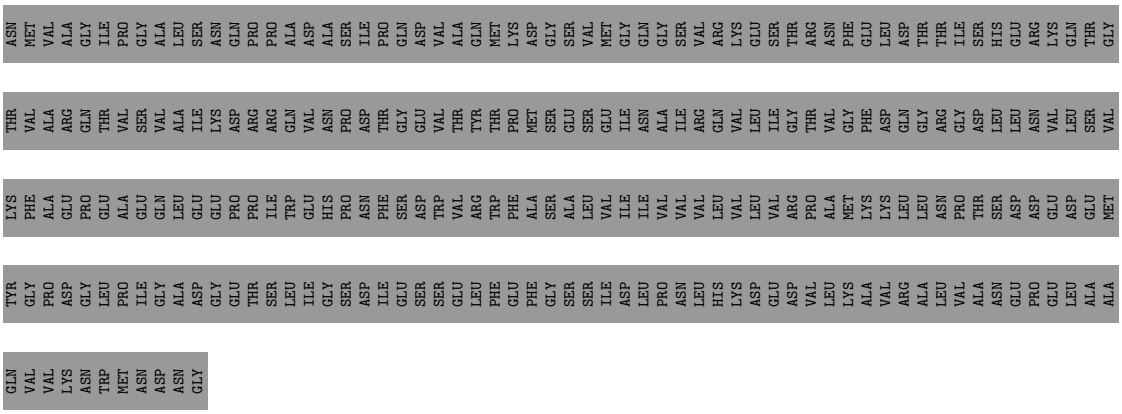
Chain Ej:



• Molecule 7: Flagellar M-ring protein

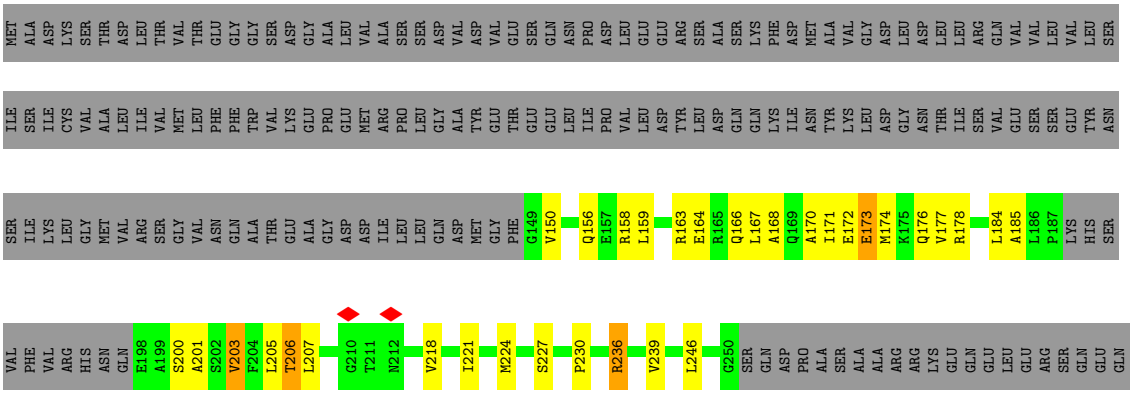
Chain Ek:





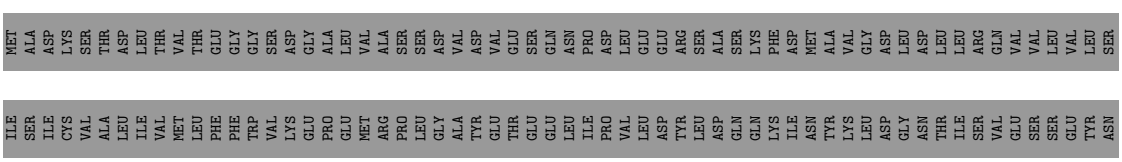
• Molecule 7: Flagellar M-ring protein

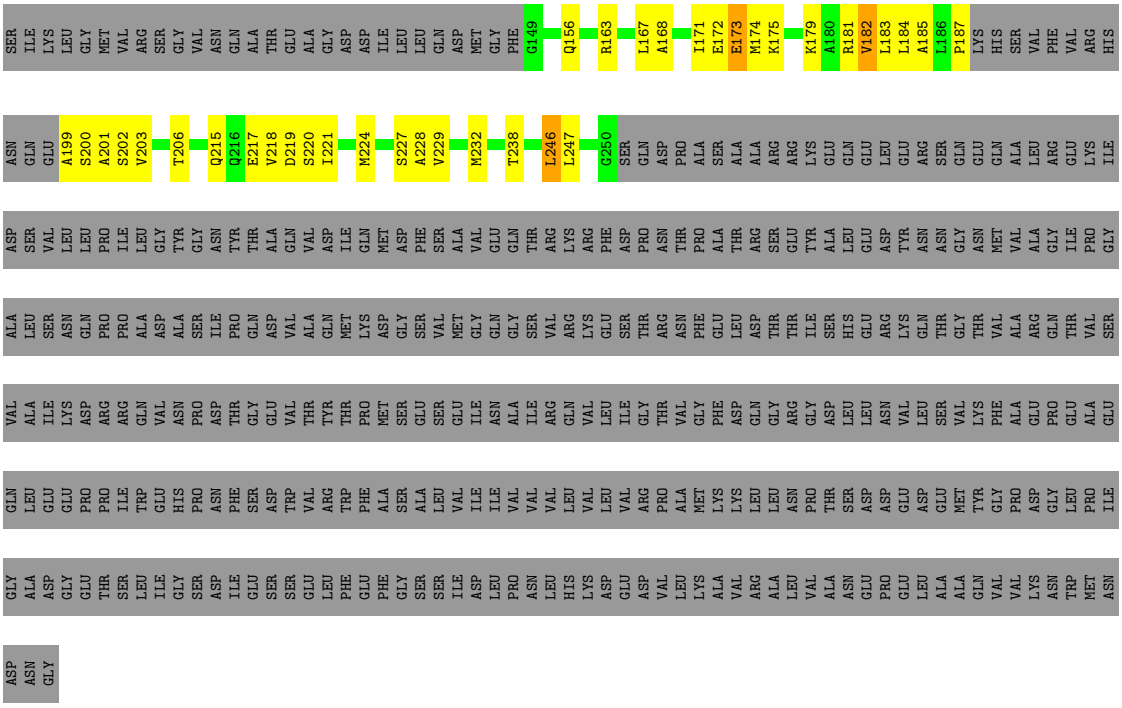
Chain El:



• Molecule 7: Flagellar M-ring protein

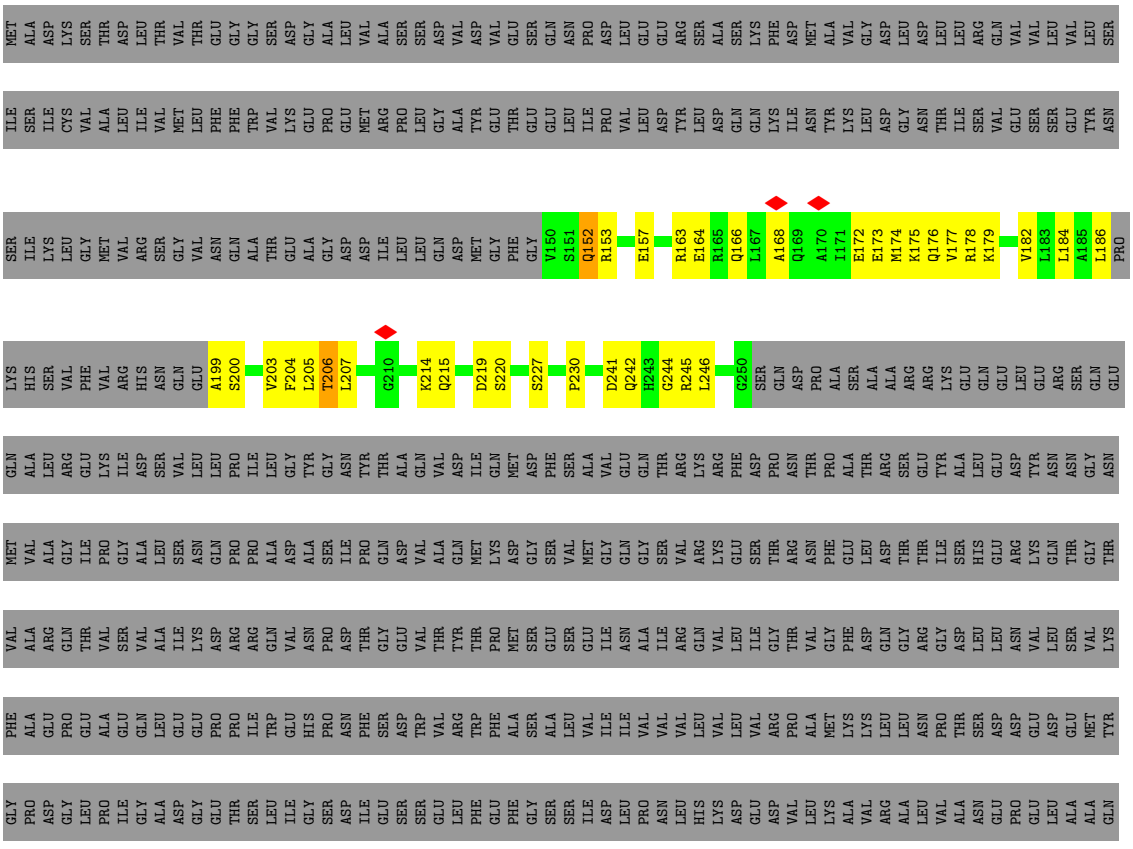
Chain Em:





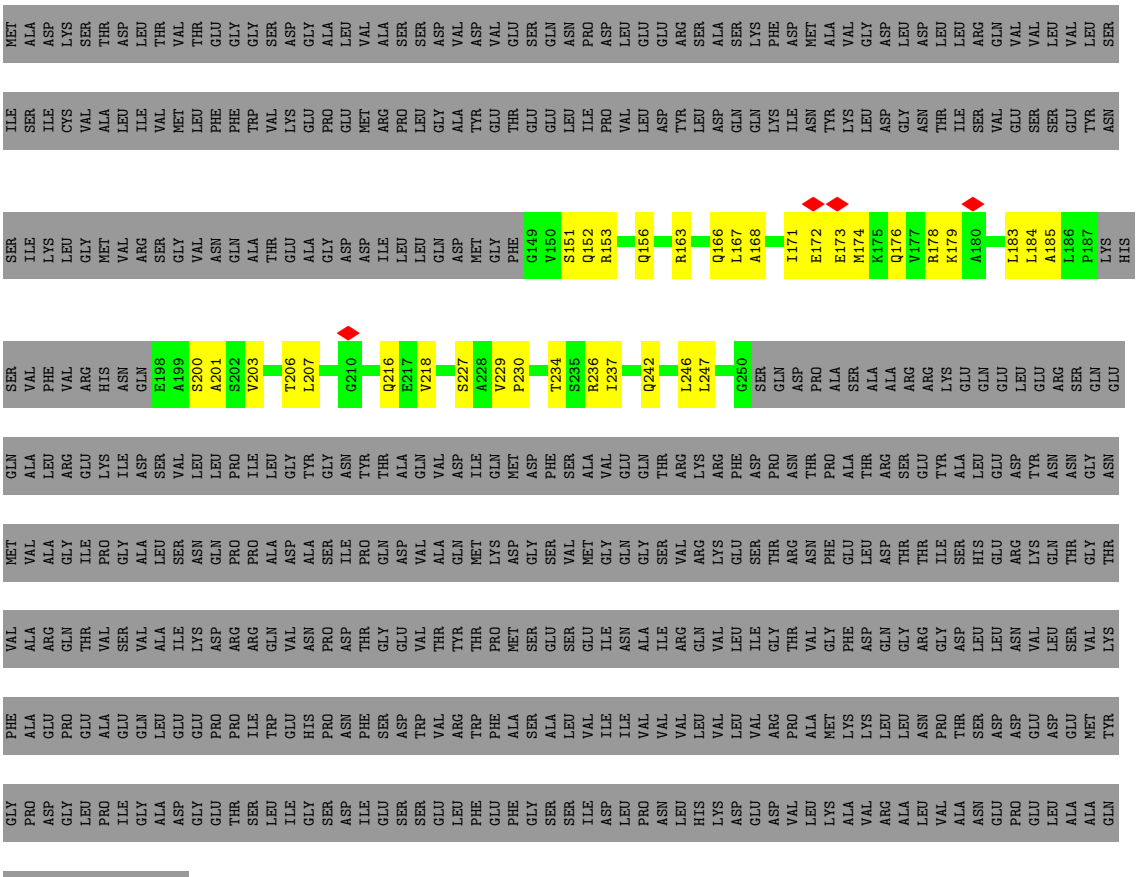
• Molecule 7: Flagellar M-ring protein

Chain En: 9% 6% 85%



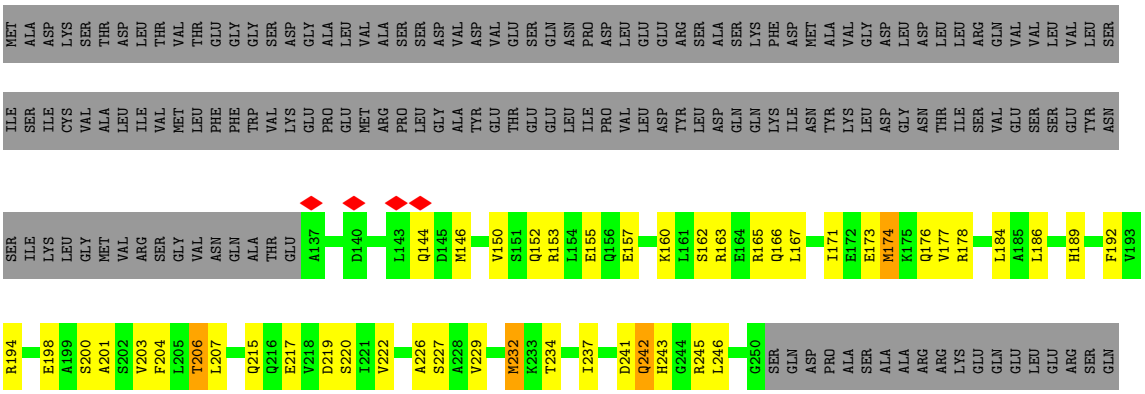
• Molecule 7: Flagellar M-ring protein

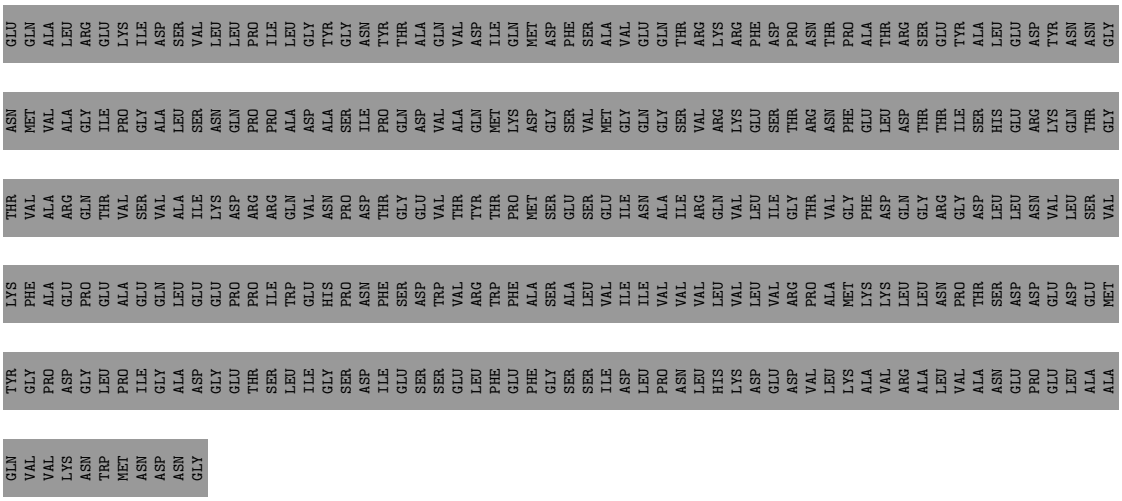
Chain Eo:



• Molecule 7: Flagellar M-ring protein

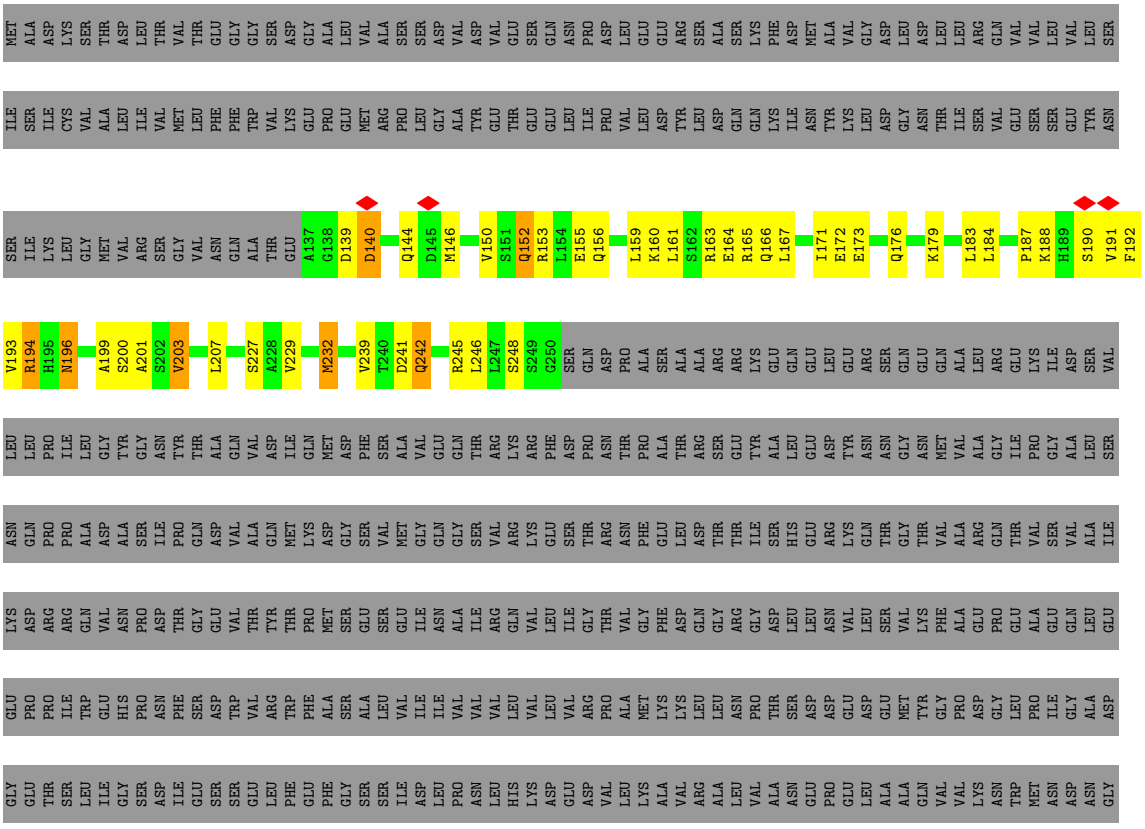
Chain Ep:





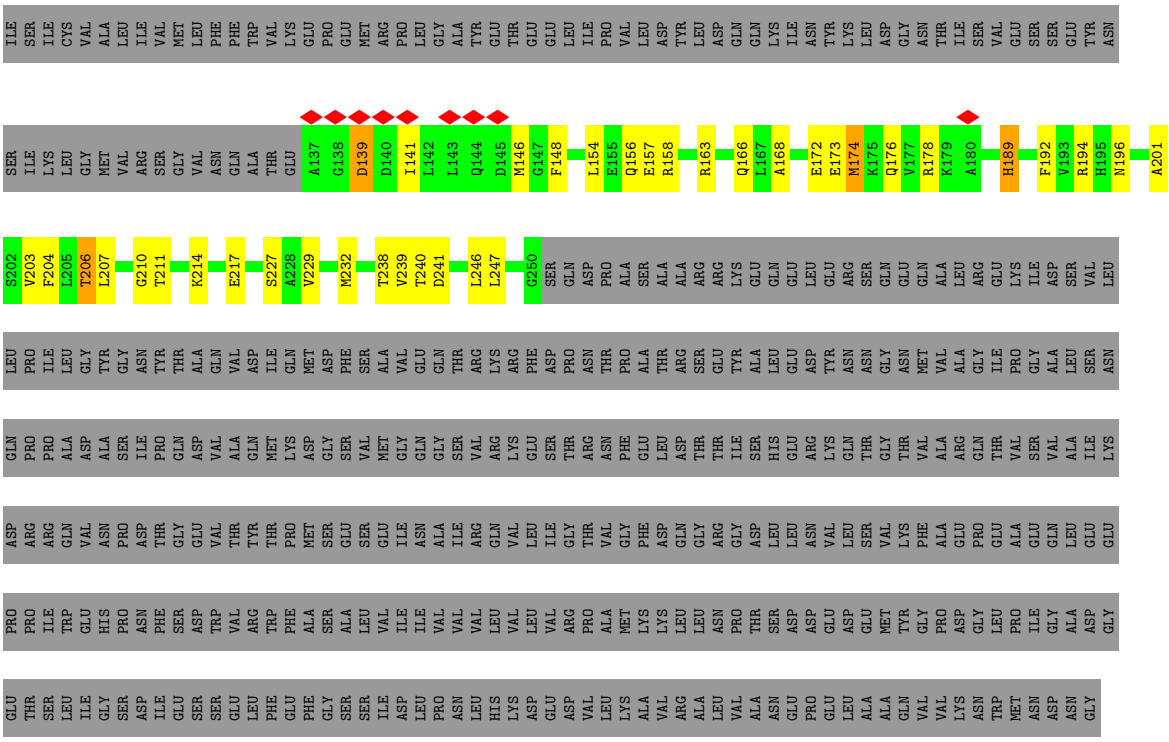
• Molecule 7: Flagellar M-ring protein

Chain Eq:



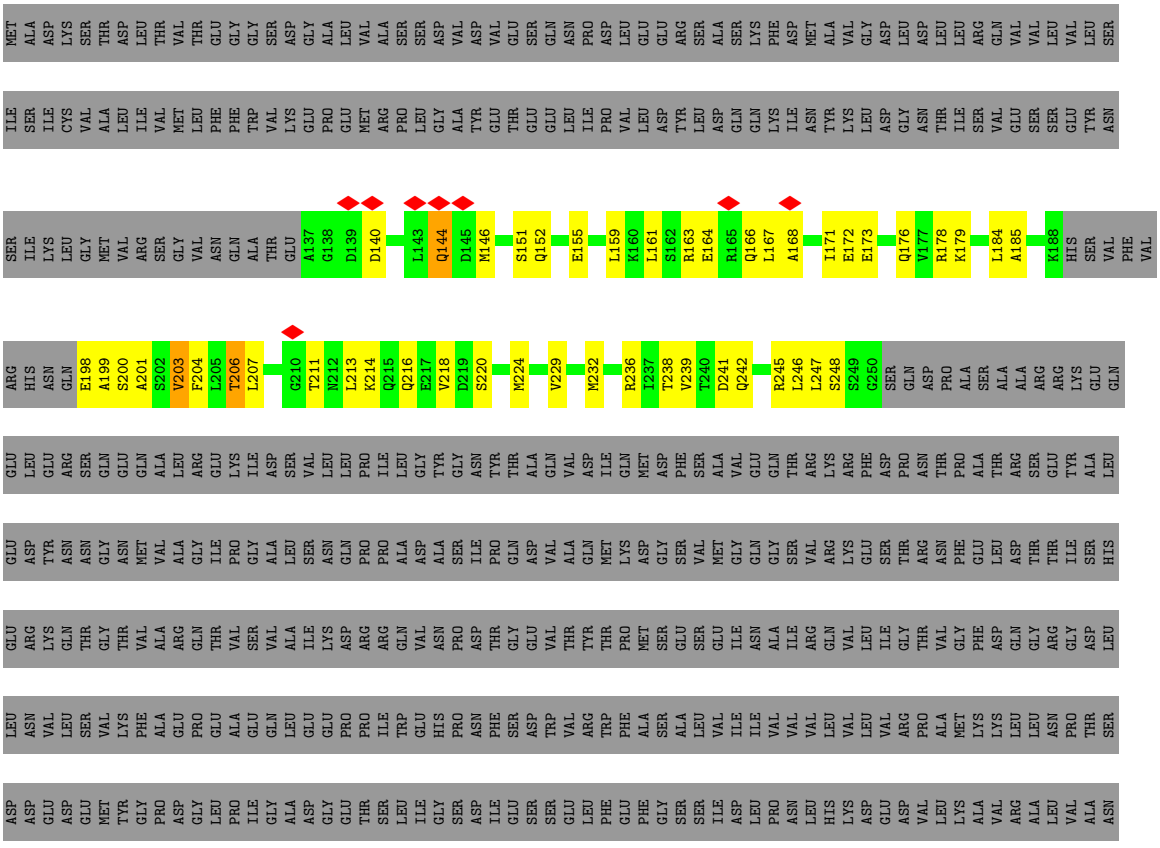
• Molecule 7: Flagellar M-ring protein

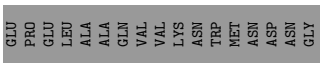
Chain Er:



• Molecule 7: Flagellar M-ring protein

Chain Es:





• Molecule 7: Flagellar M-ring protein

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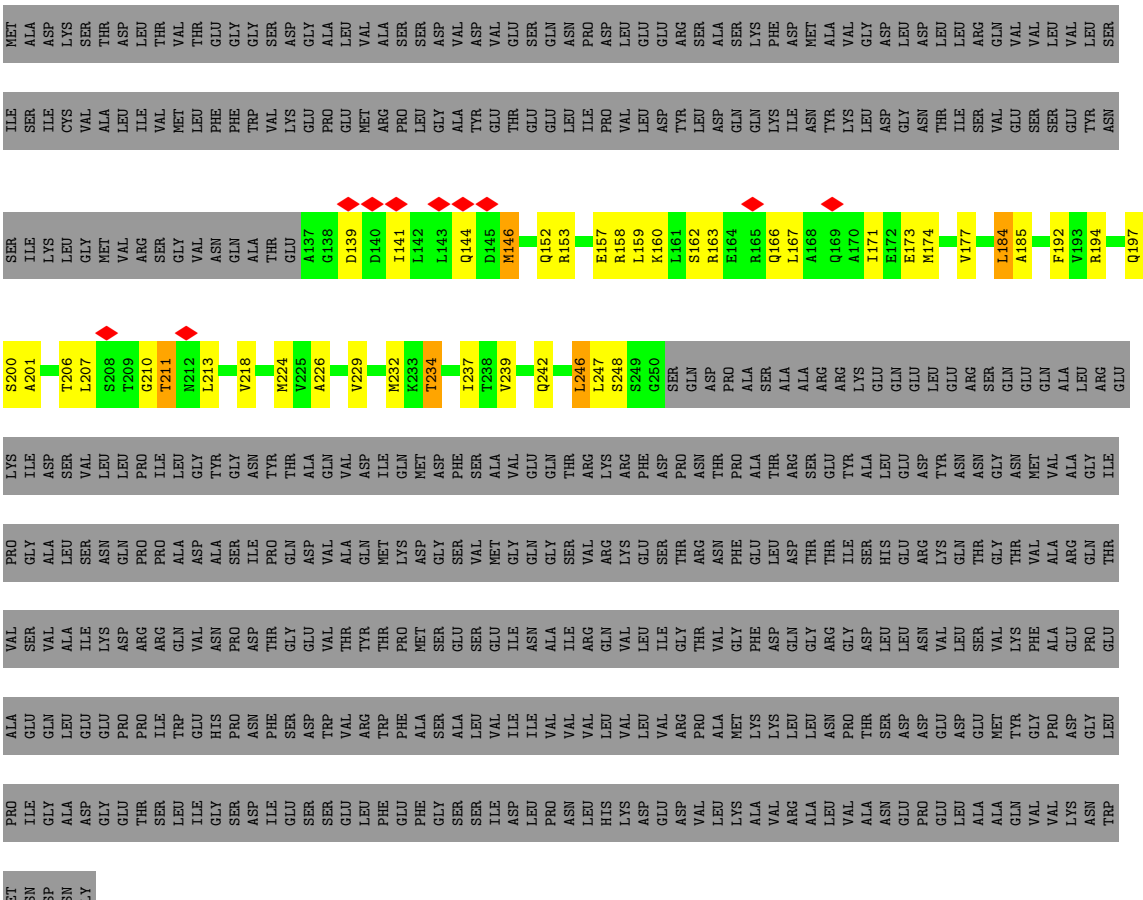
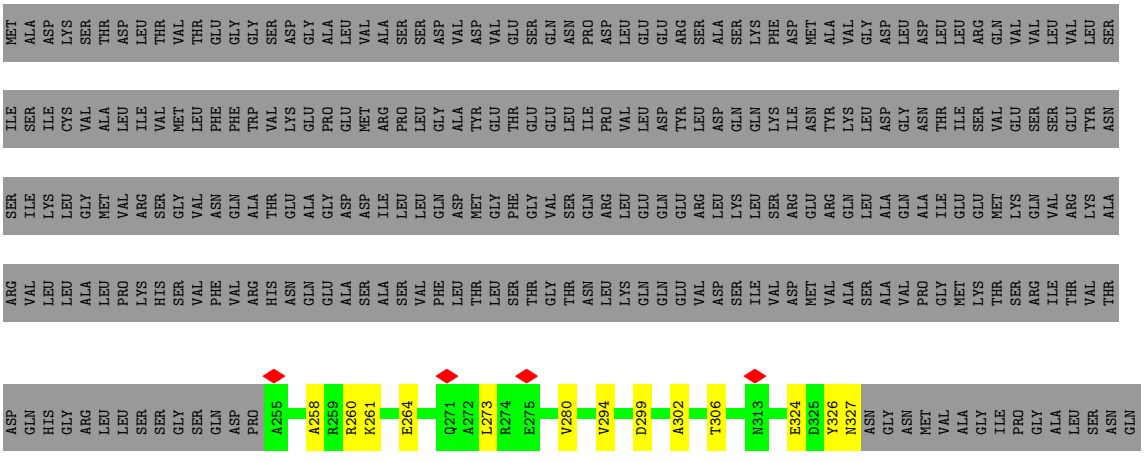
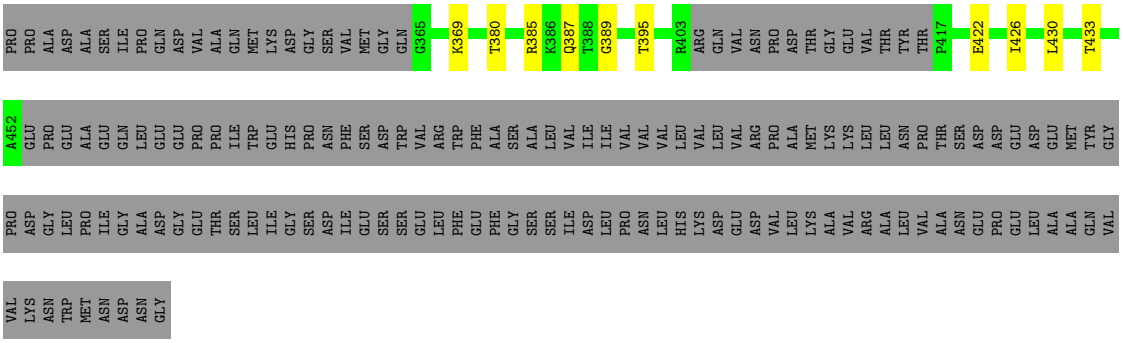


• Molecule 7: Flagellar M-ring protein

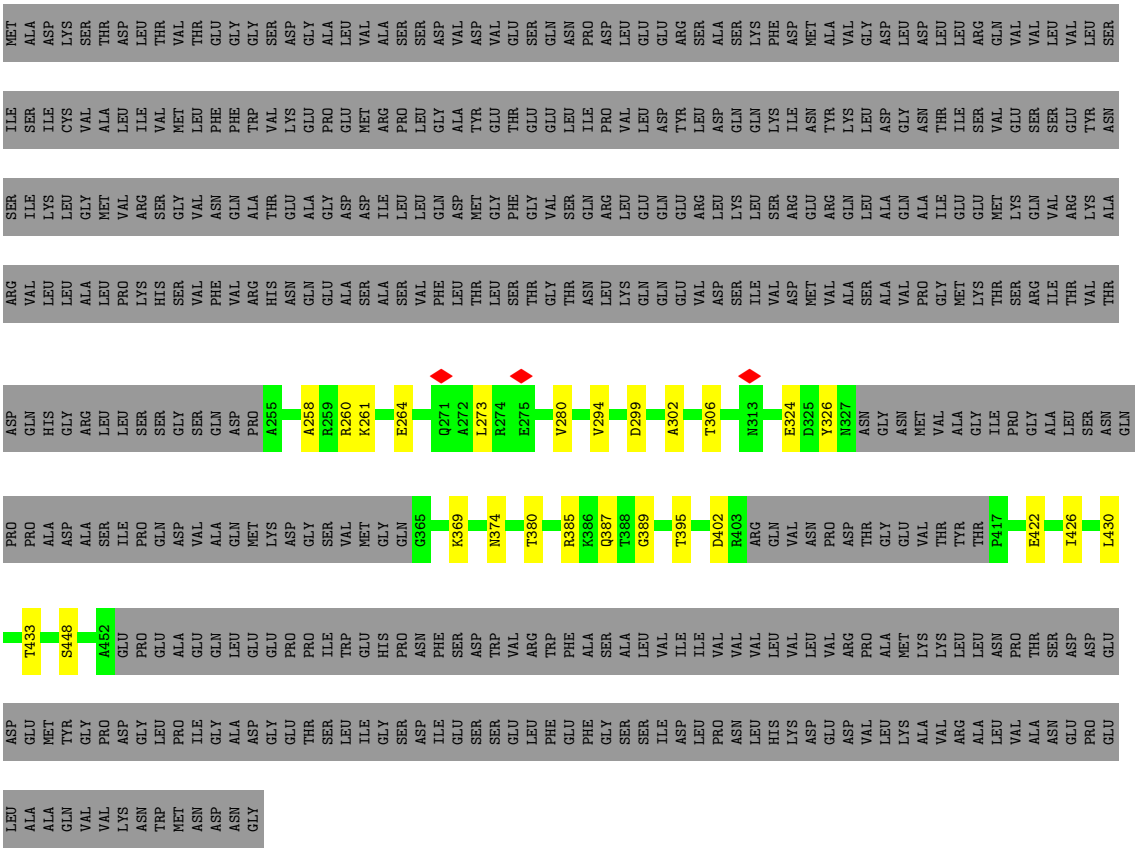
Chain Eu:





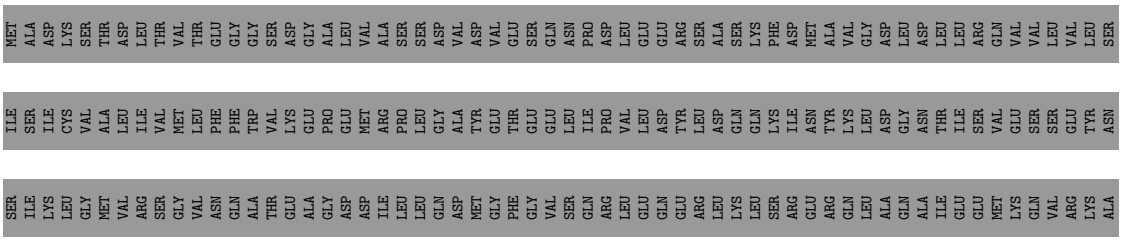
• Molecule 7: Flagellar M-ring protein

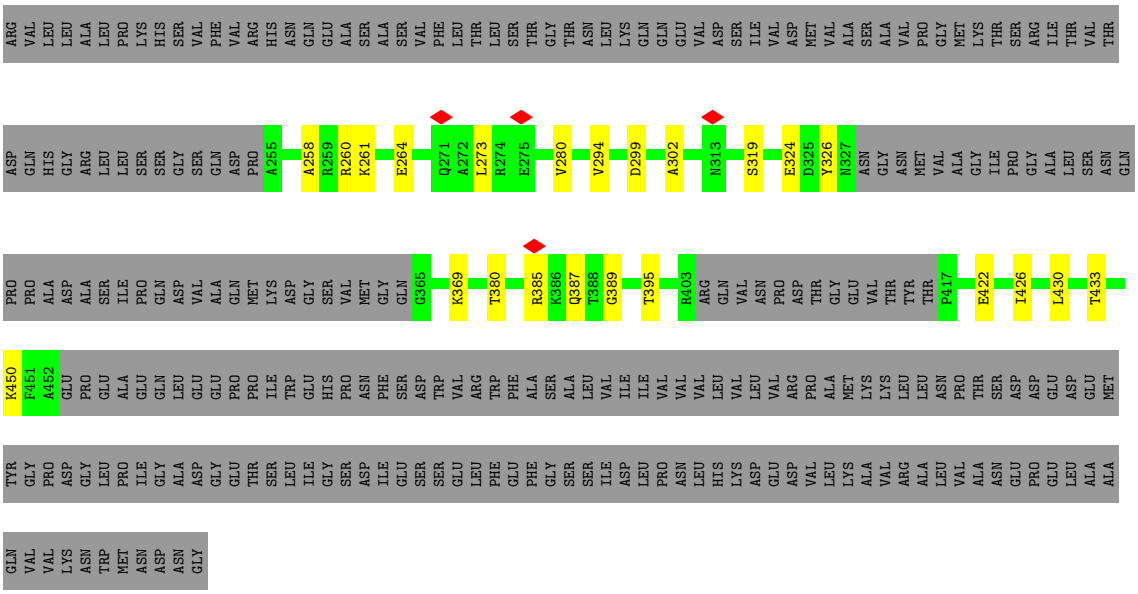
Chain Ev:



• Molecule 7: Flagellar M-ring protein

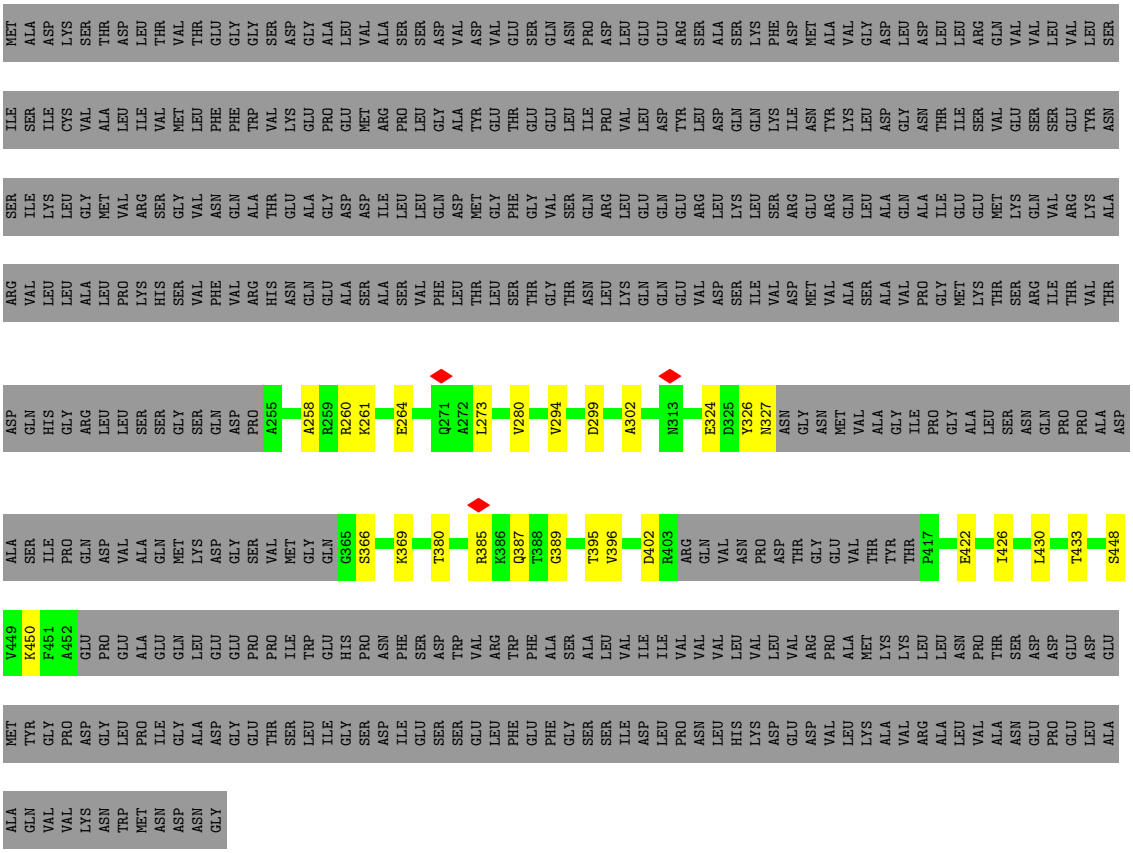
Chain Ew:





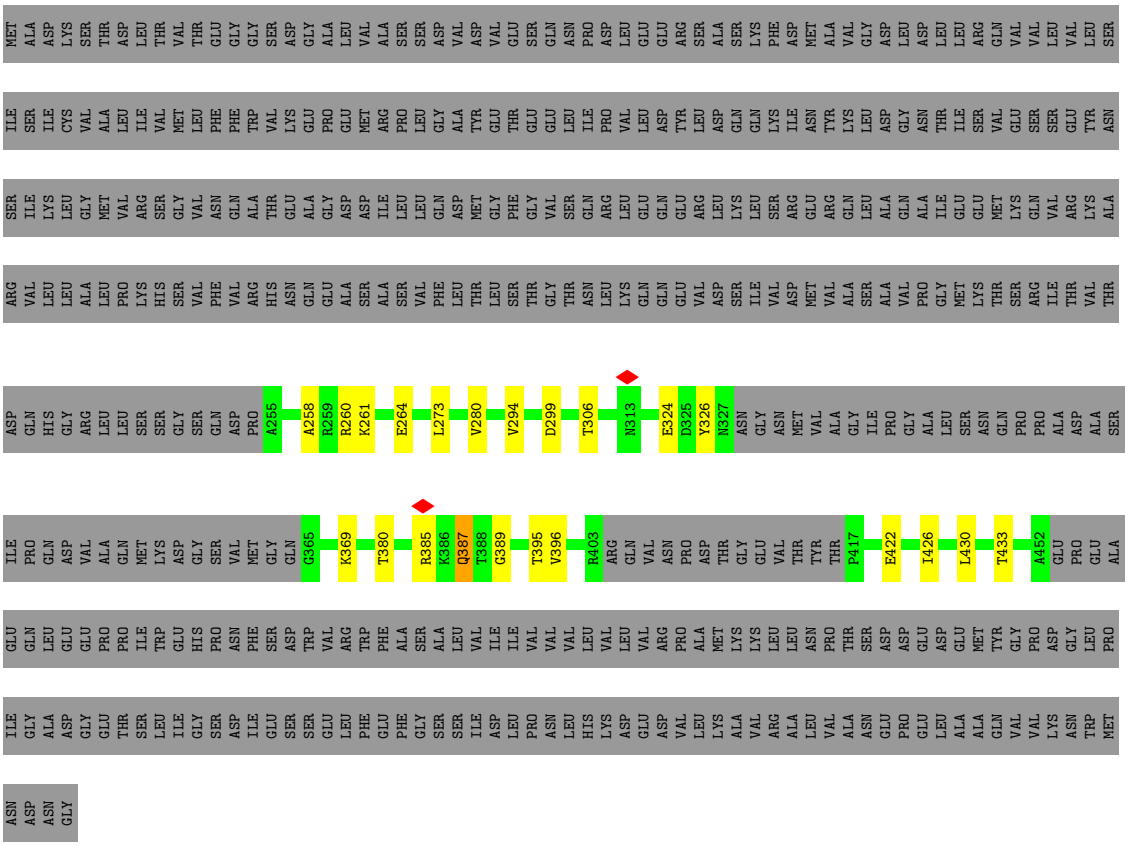
• Molecule 7: Flagellar M-ring protein

Chain Ex:



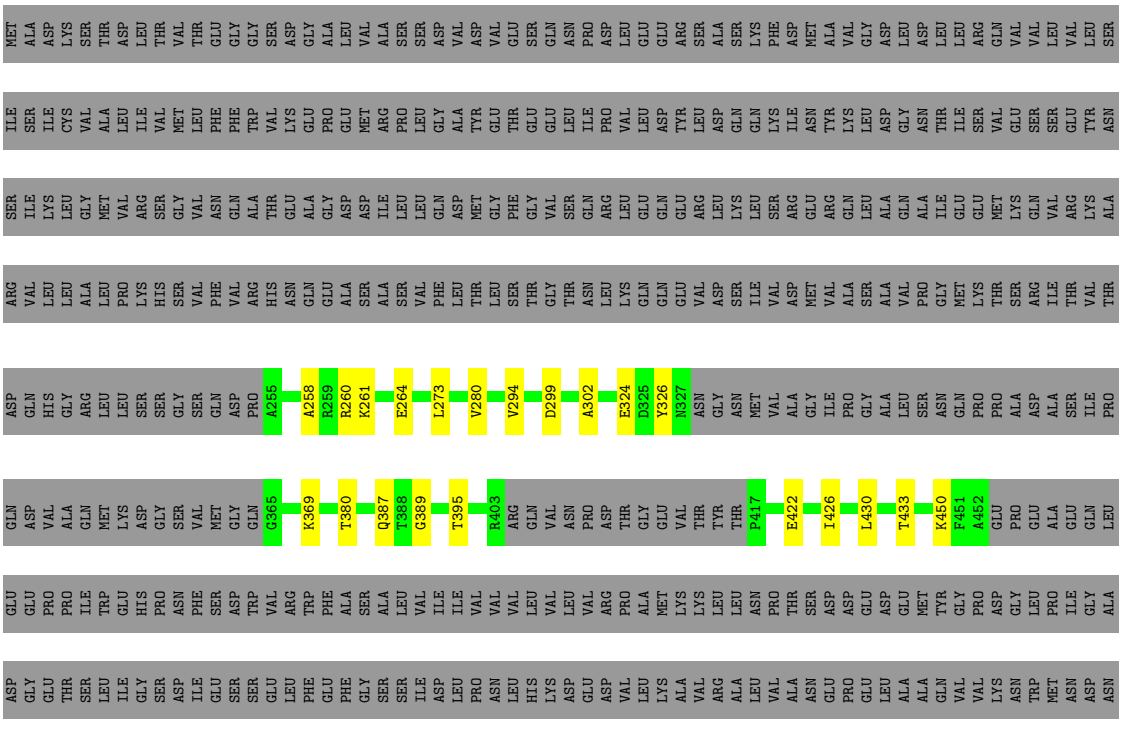
• Molecule 7: Flagellar M-ring protein

Chain Ey:



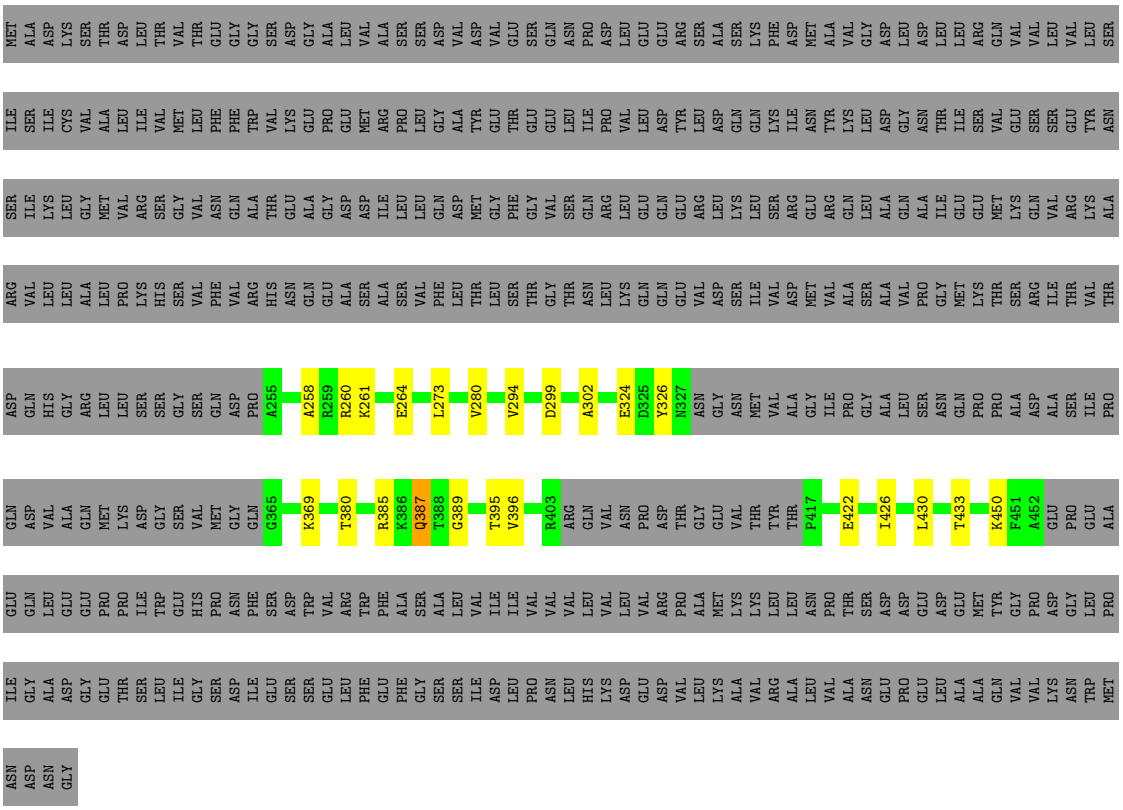
• Molecule 7: Flagellar M-ring protein

Chain Ez: 22% • 74%



• Molecule 7: Flagellar M-ring protein

Chain E1:



• Molecule 7: Flagellar M-ring protein

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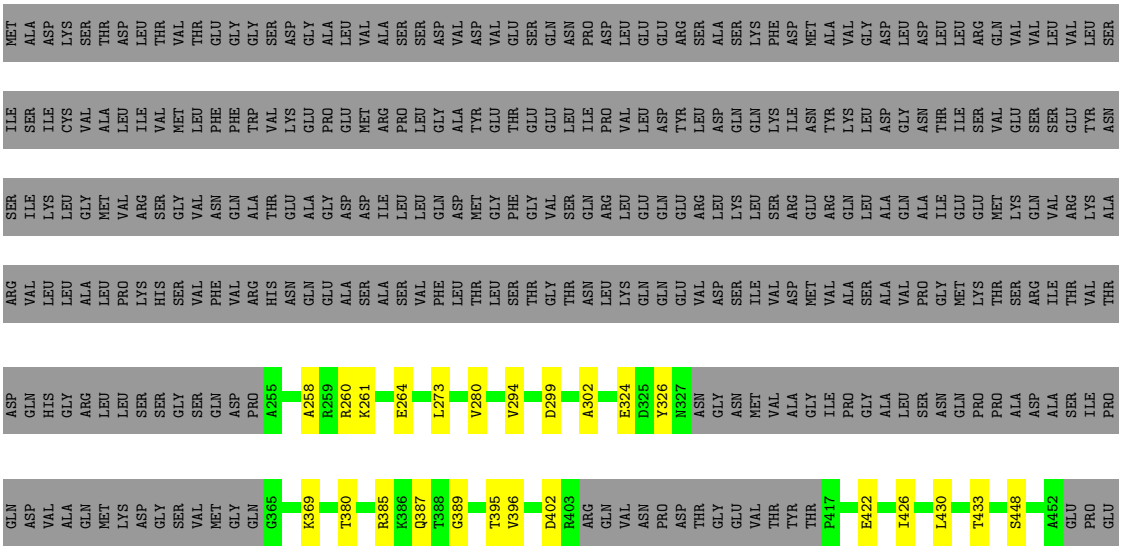
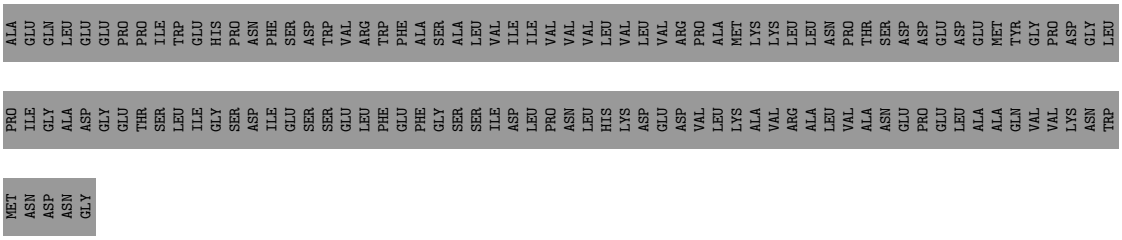
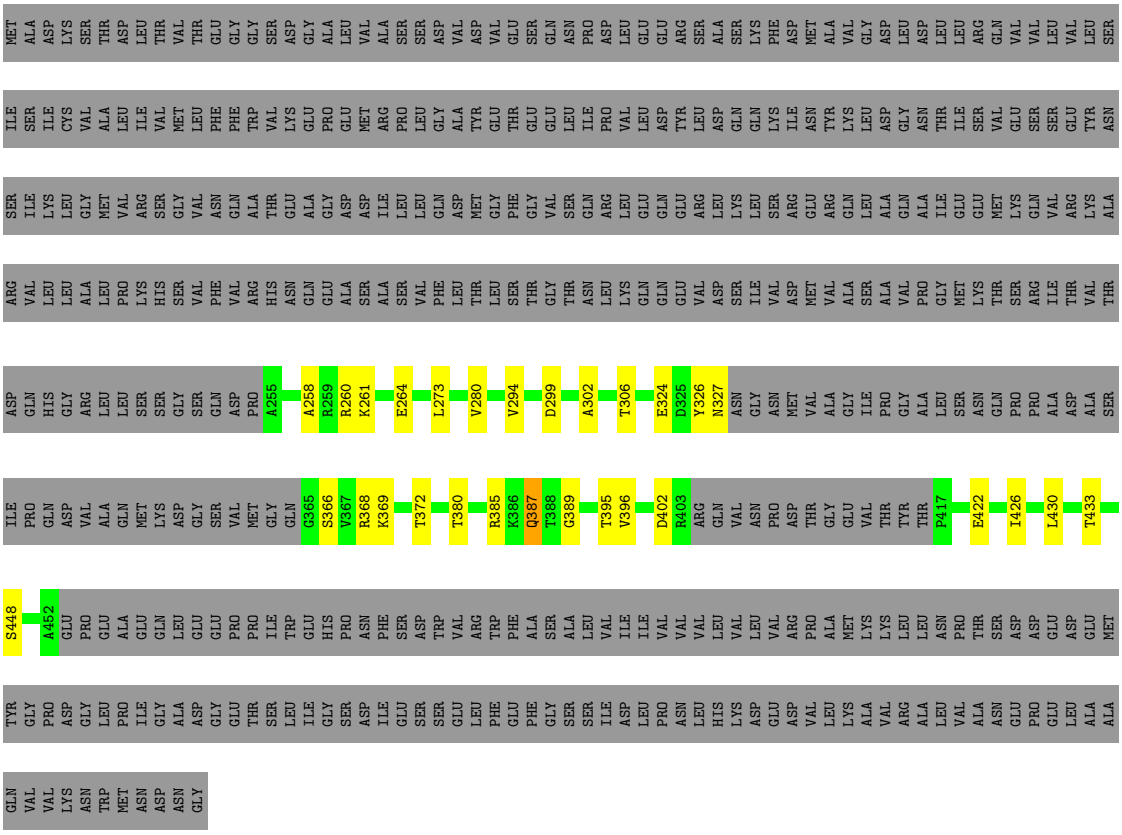




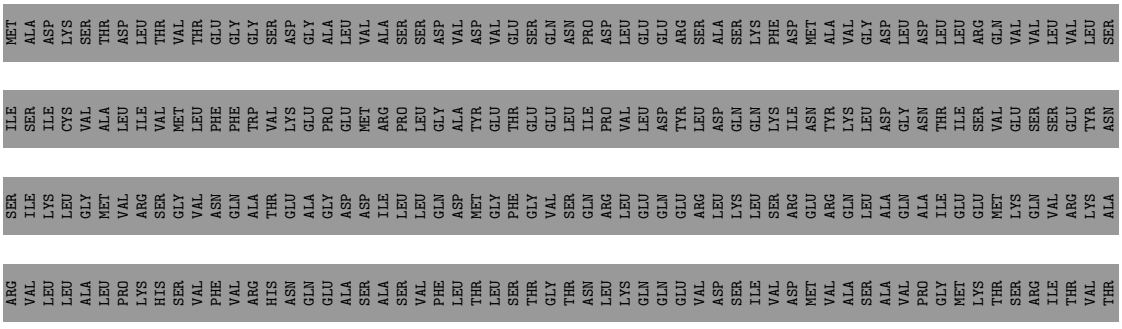
• Molecule 7: Flagellar M-ring protein

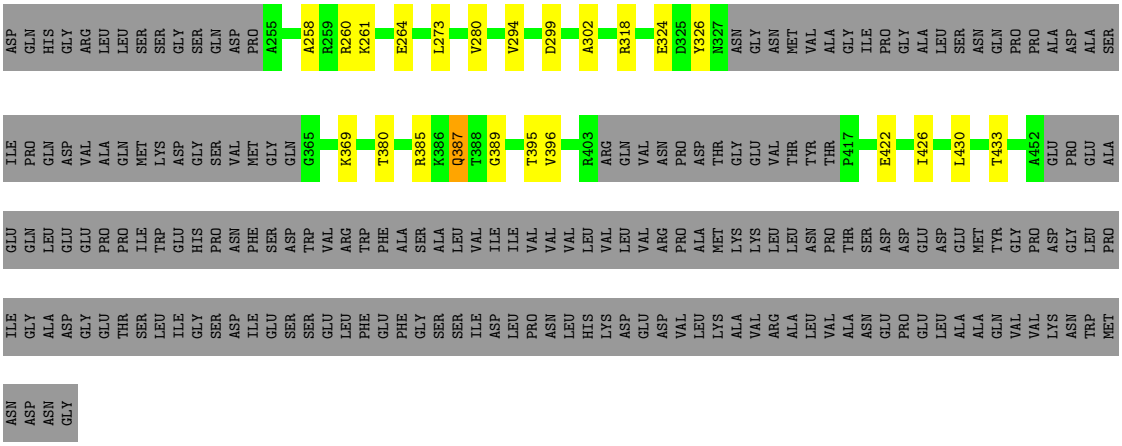
Chain E3:



• Molecule 7: Flagellar M-ring protein

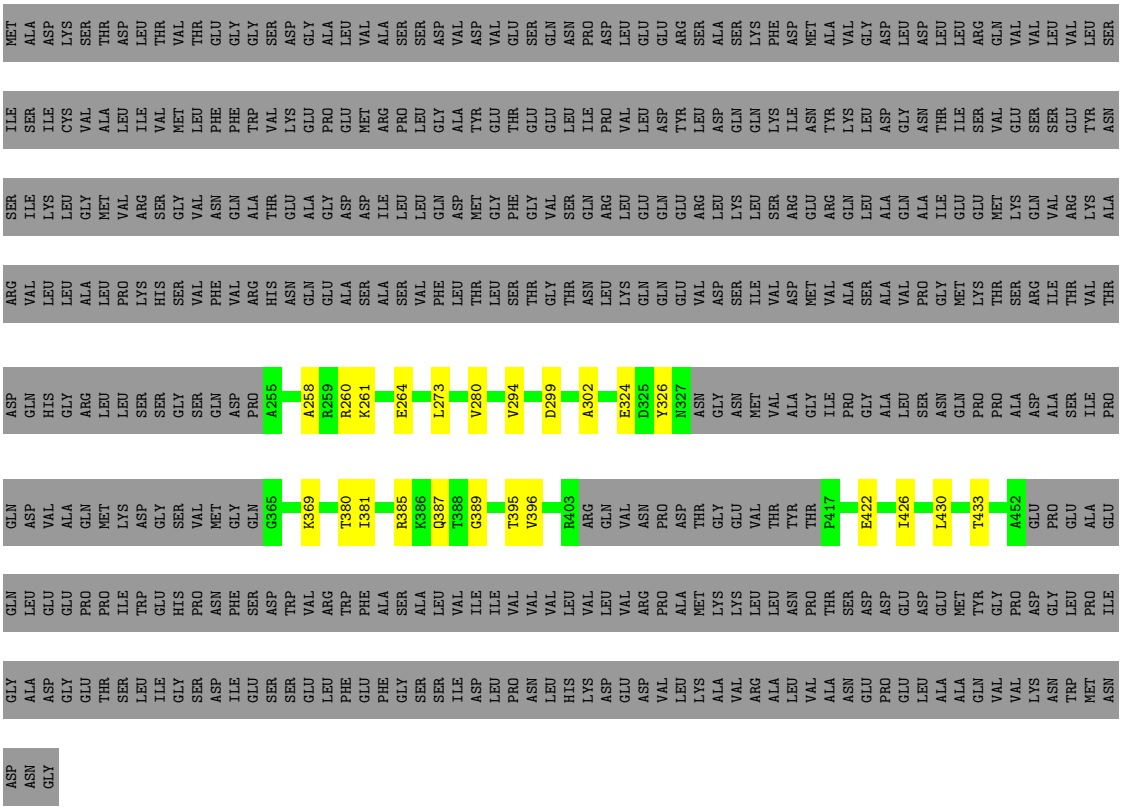
Chain E4:





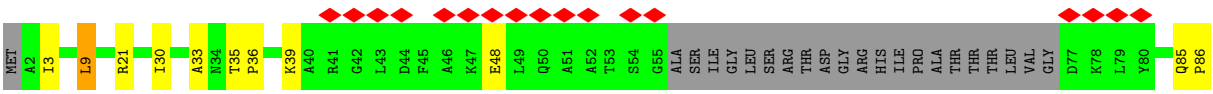
• Molecule 7: Flagellar M-ring protein

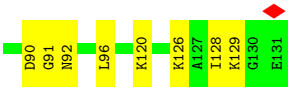
Chain E5:



• Molecule 8: Flagellar basal body rod protein FlgB

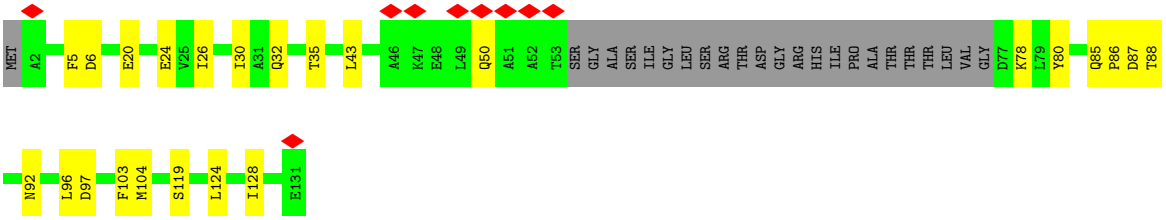
Chain b:





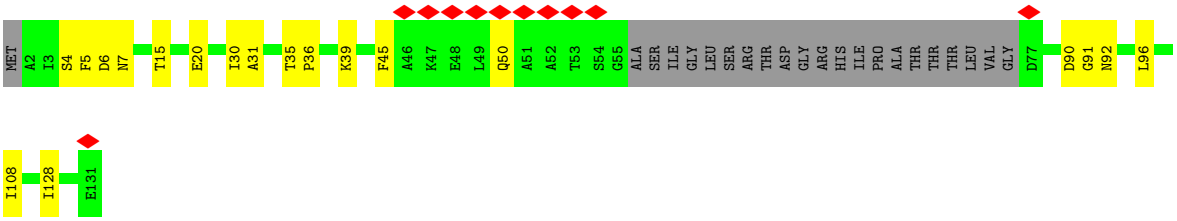
• Molecule 8: Flagellar basal body rod protein FlgB

Chain c:



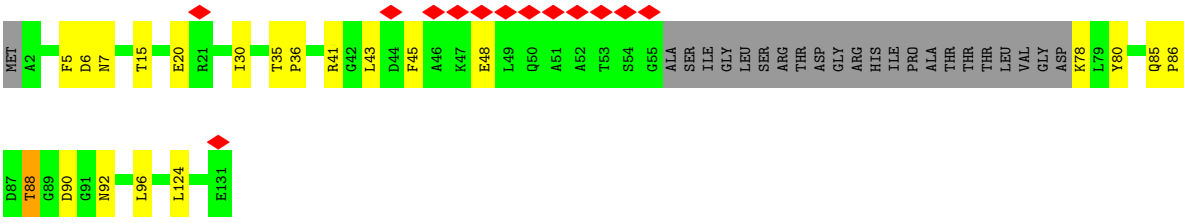
• Molecule 8: Flagellar basal body rod protein FlgB

Chain d:



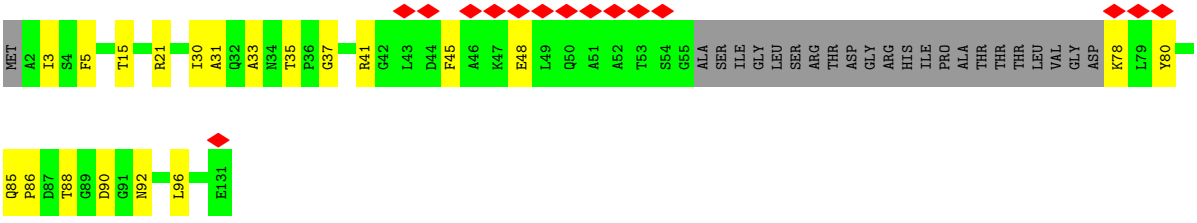
• Molecule 8: Flagellar basal body rod protein FlgB

Chain e:



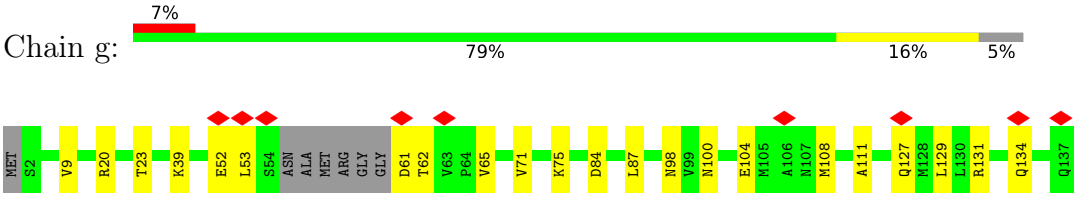
• Molecule 8: Flagellar basal body rod protein FlgB

Chain f:



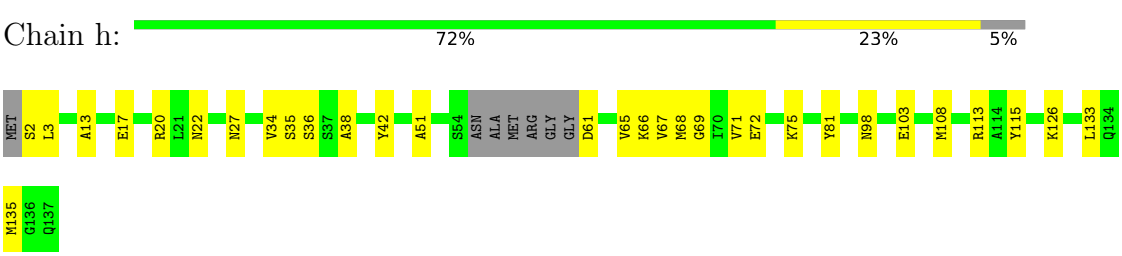
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain g:



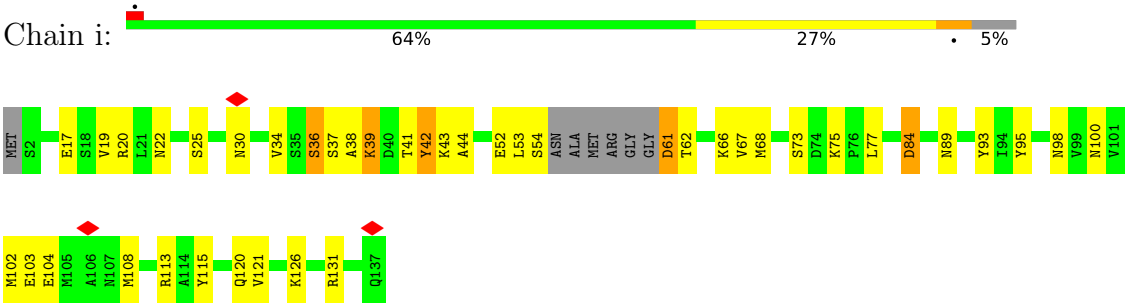
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain h:



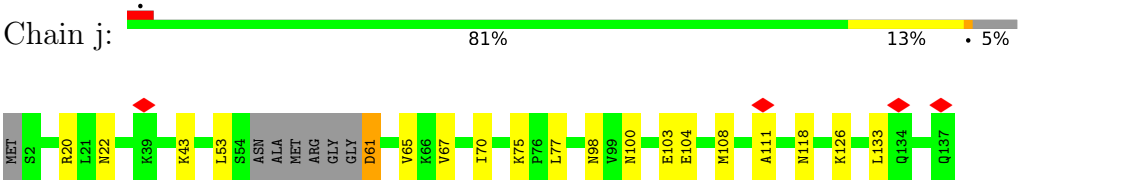
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain i:



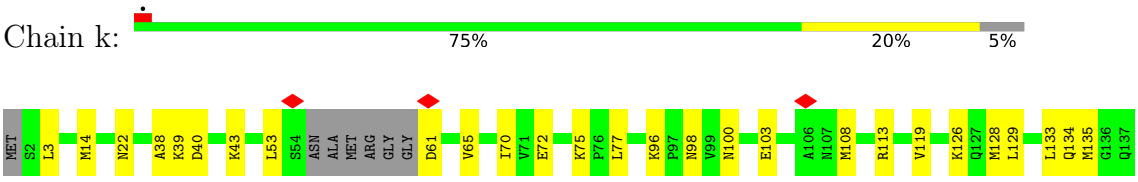
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain j:



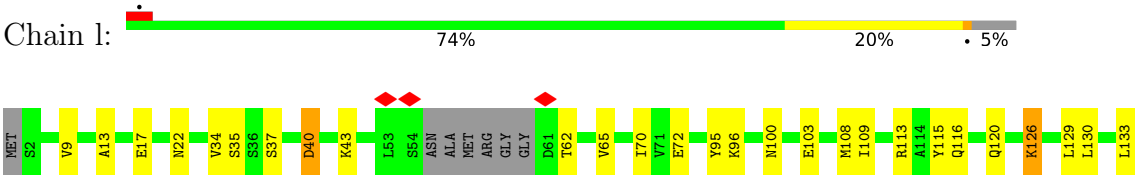
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain k:



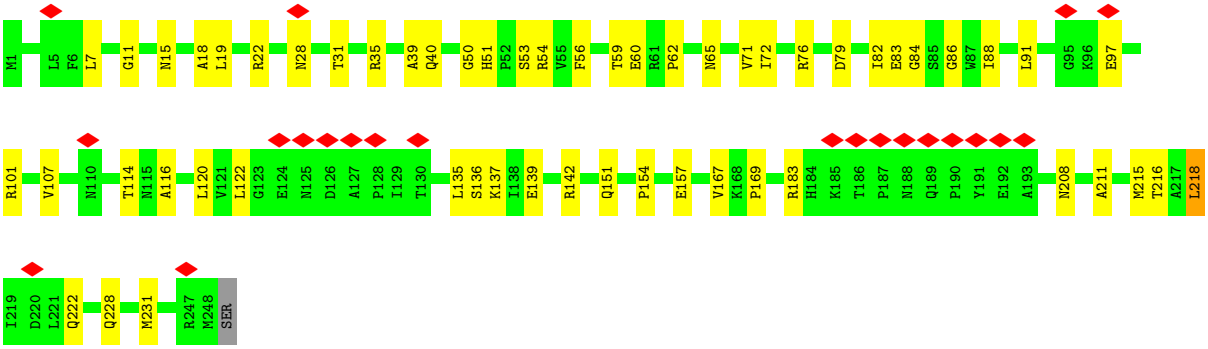
• Molecule 9: Flagellar basal-body rod protein FlgC

Chain l:



• Molecule 10: Flagellar basal-body rod protein FlgF

Chain m:

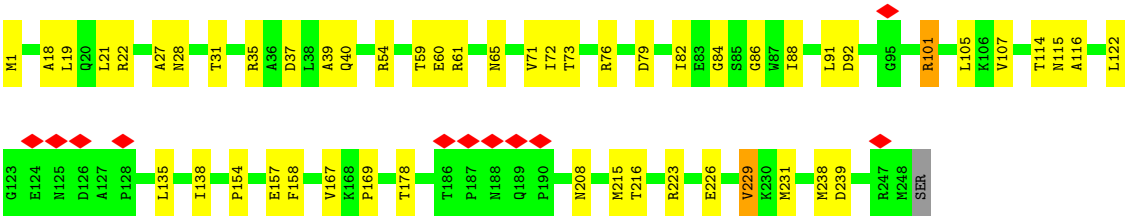


• Molecule 10: Flagellar basal-body rod protein FlgF

Chain n:

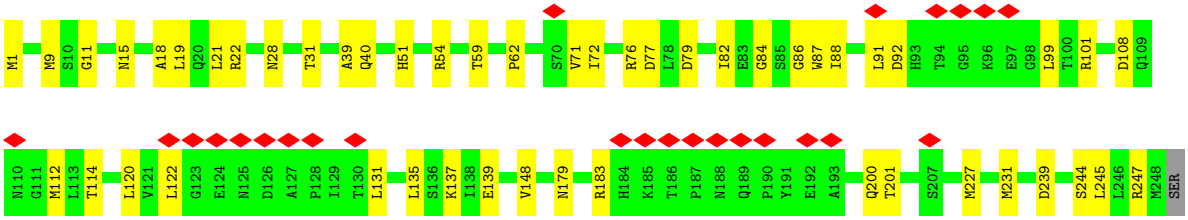
• Molecule 10: Flagellar basal-body rod protein FlgF

Chain o:

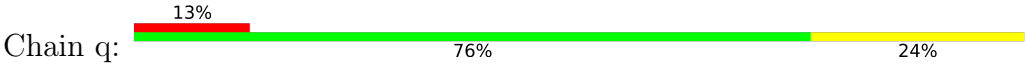


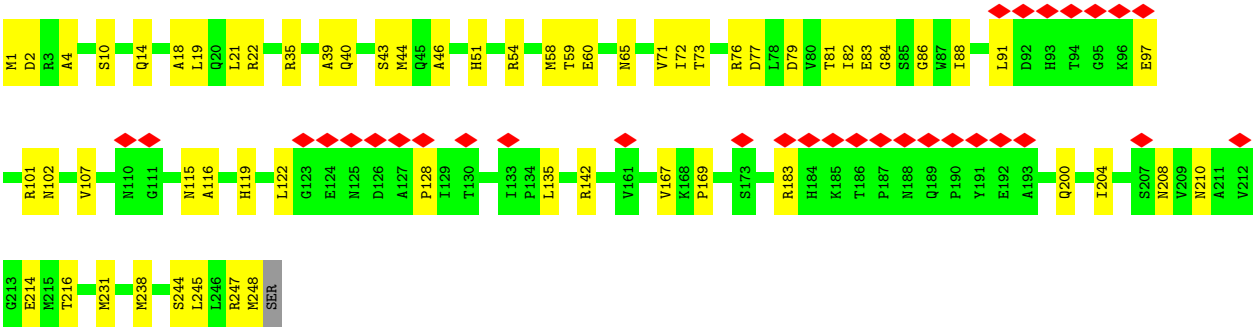
• Molecule 10: Flagellar basal-body rod protein FlgF

Chain p:

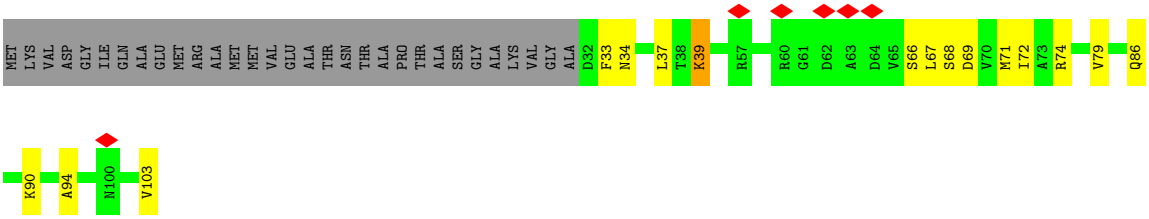


• Molecule 10: Flagellar basal-body rod protein FlgF

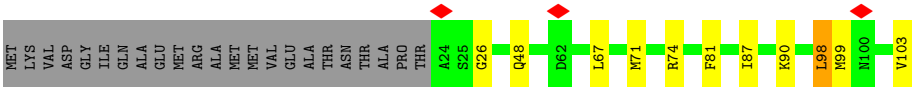




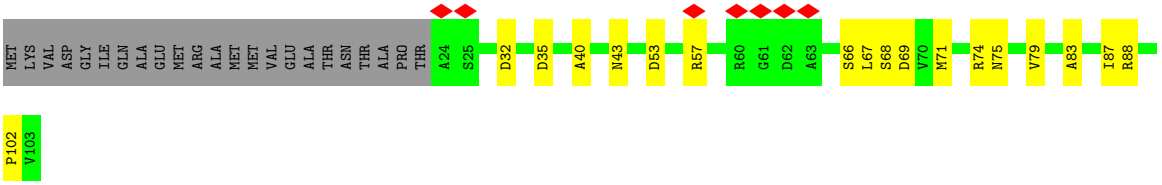
• Molecule 11: Flagellar hook-basal body complex protein FliE



• Molecule 11: Flagellar hook-basal body complex protein FliE

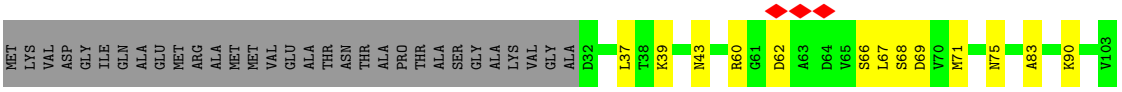


• Molecule 11: Flagellar hook-basal body complex protein FliE



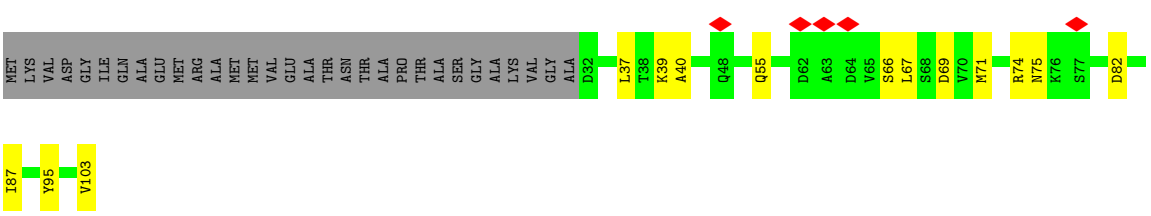
• Molecule 11: Flagellar hook-basal body complex protein FliE

Chain u:



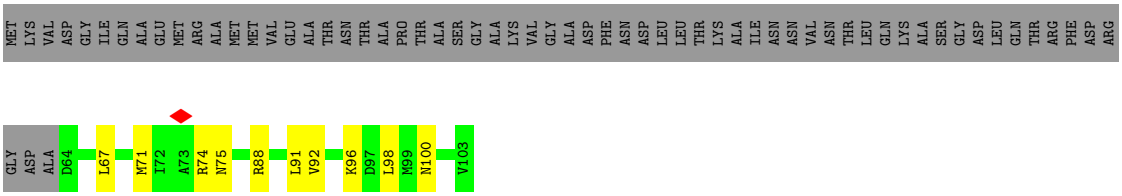
• Molecule 11: Flagellar hook-basal body complex protein FliE

Chain v:



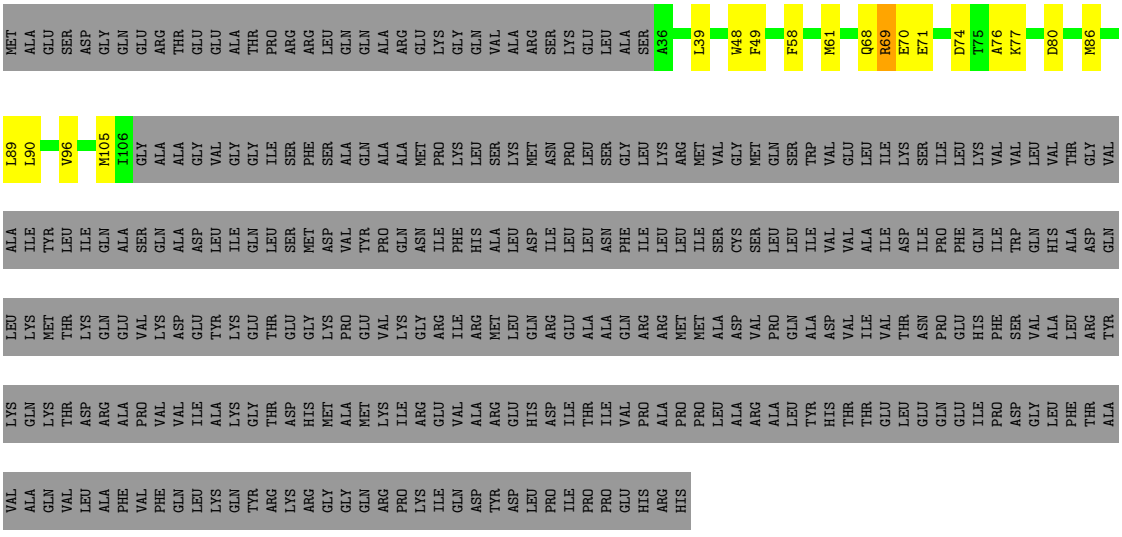
• Molecule 11: Flagellar hook-basal body complex protein FliE

Chain w:



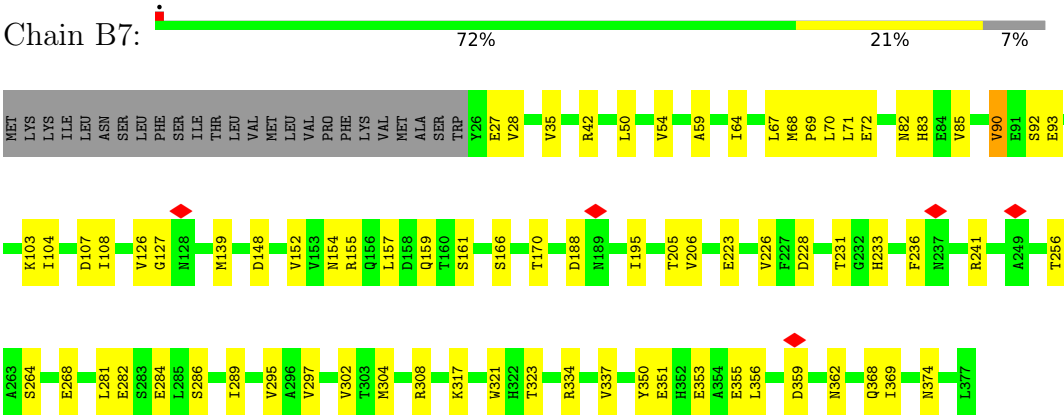
• Molecule 12: Flagellar biosynthetic protein FlhB

Chain x:



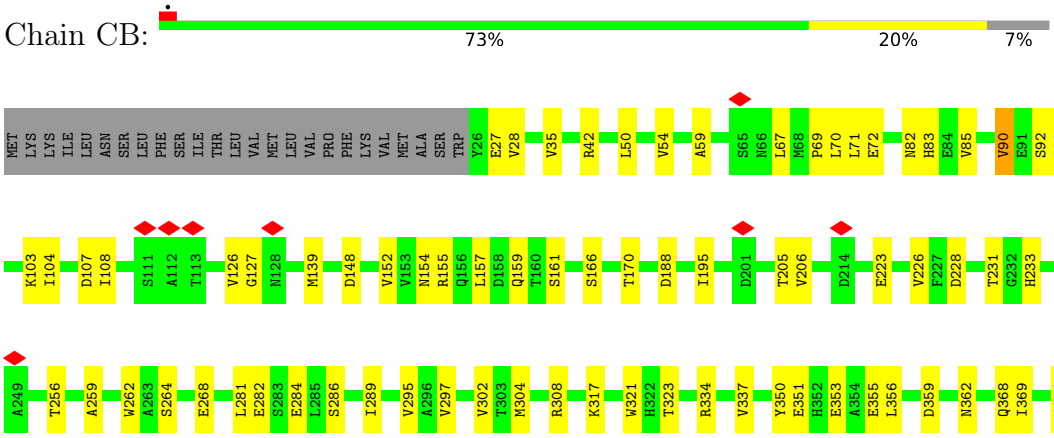
• Molecule 13: Flagella basal-body protein

Chain B7:



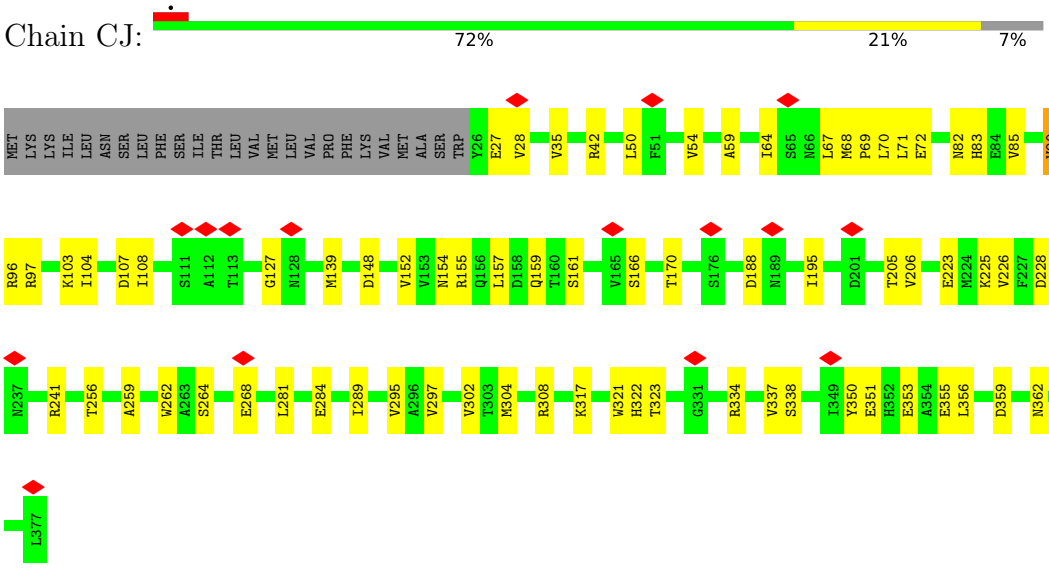
• Molecule 13: Flagella basal-body protein

Chain CB:



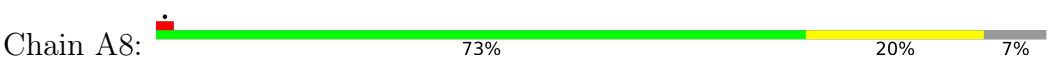
• Molecule 13: Flagella basal-body protein

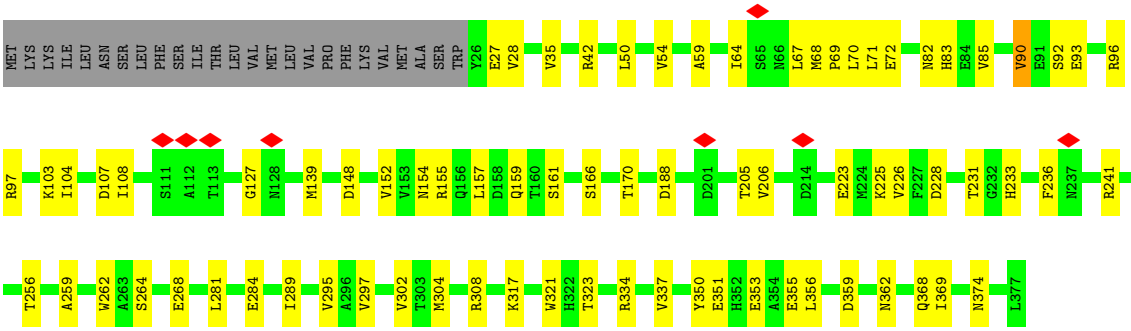
Chain CJ:



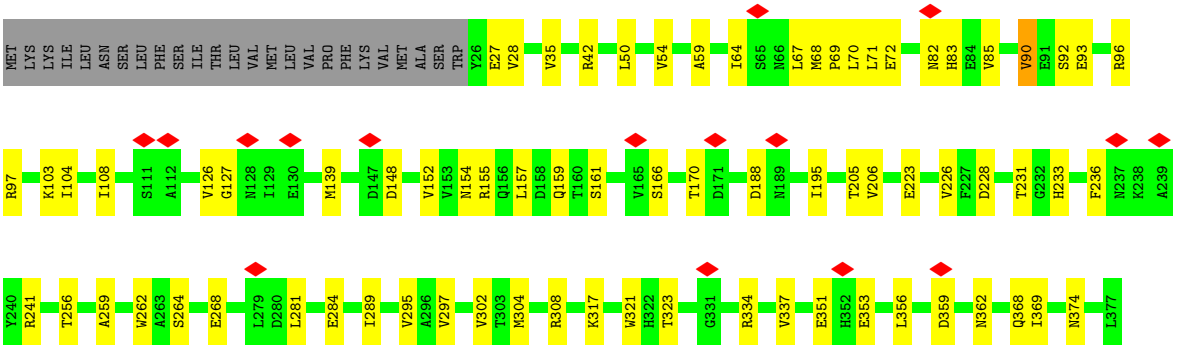
• Molecule 13: Flagella basal-body protein

Chain A8:

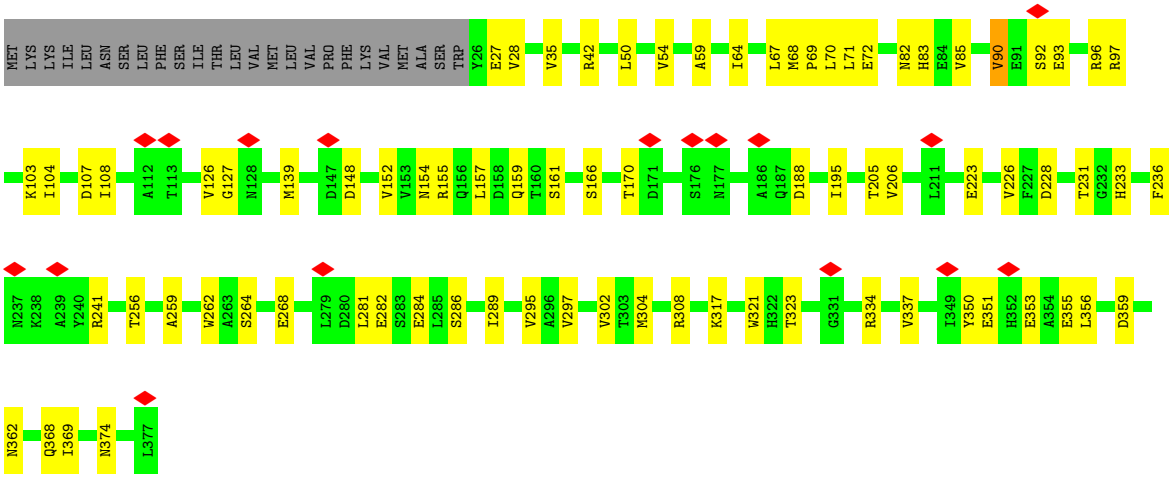




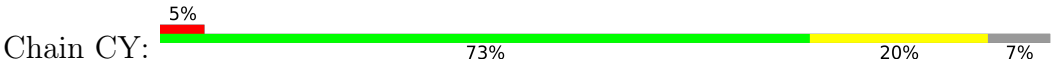
• Molecule 13: Flagella basal-body protein

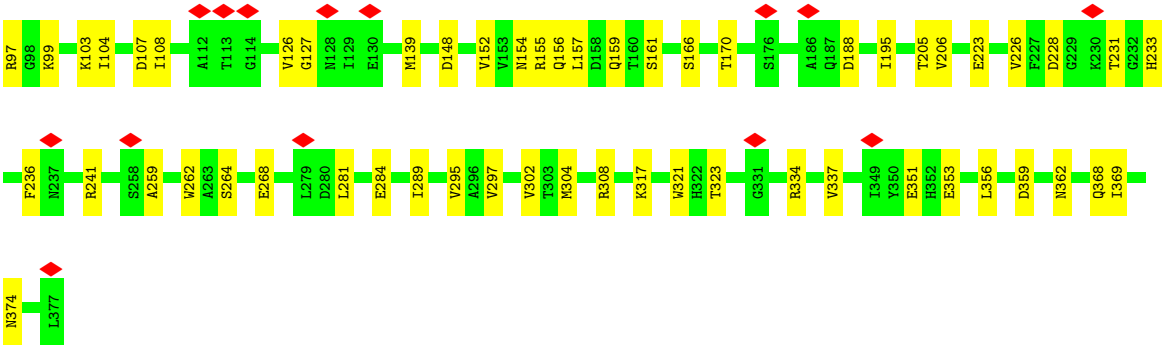


• Molecule 13: Flagella basal-body protein

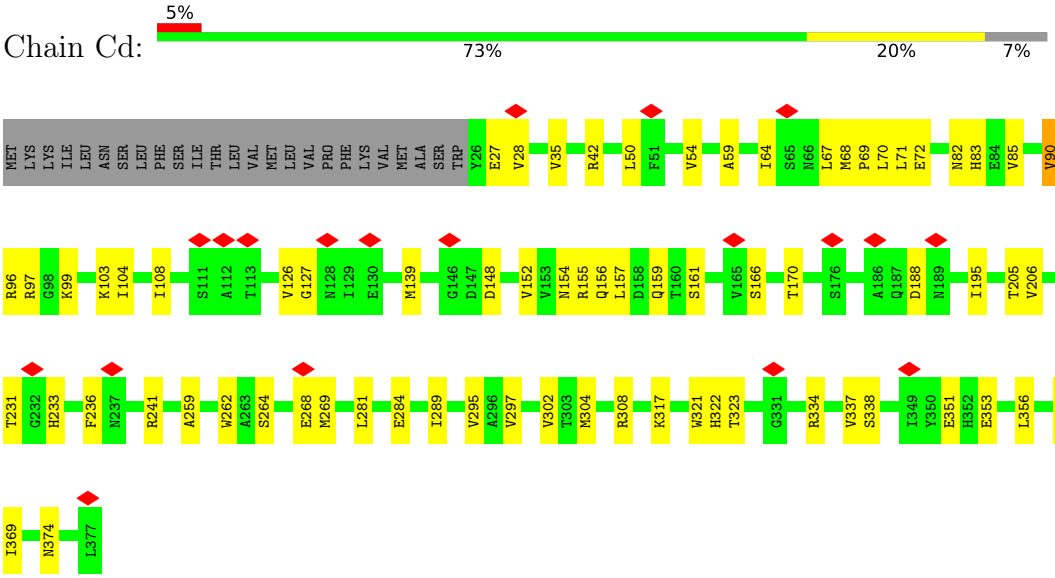


• Molecule 13: Flagella basal-body protein

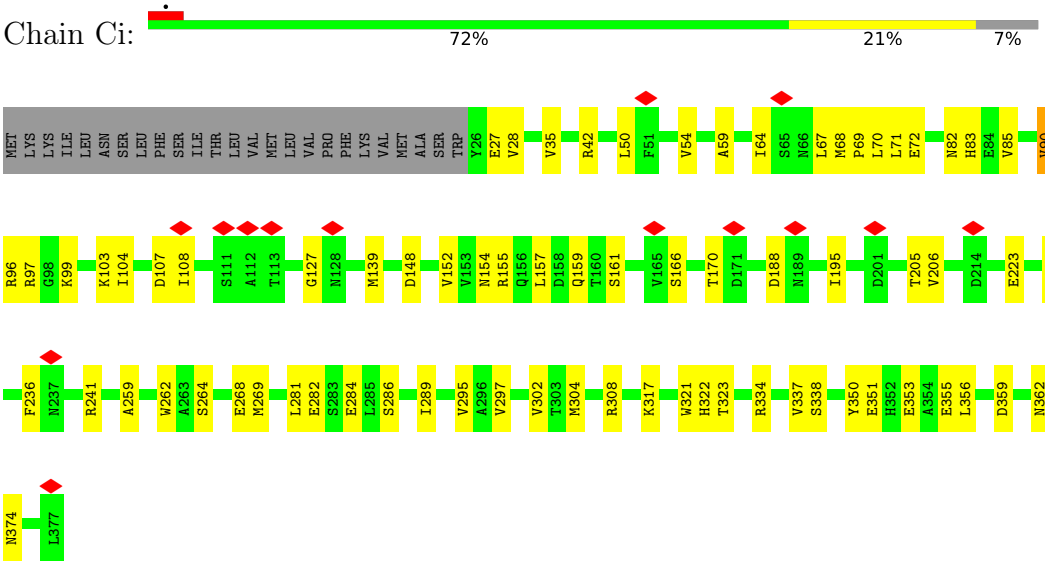




• Molecule 13: Flagella basal-body protein

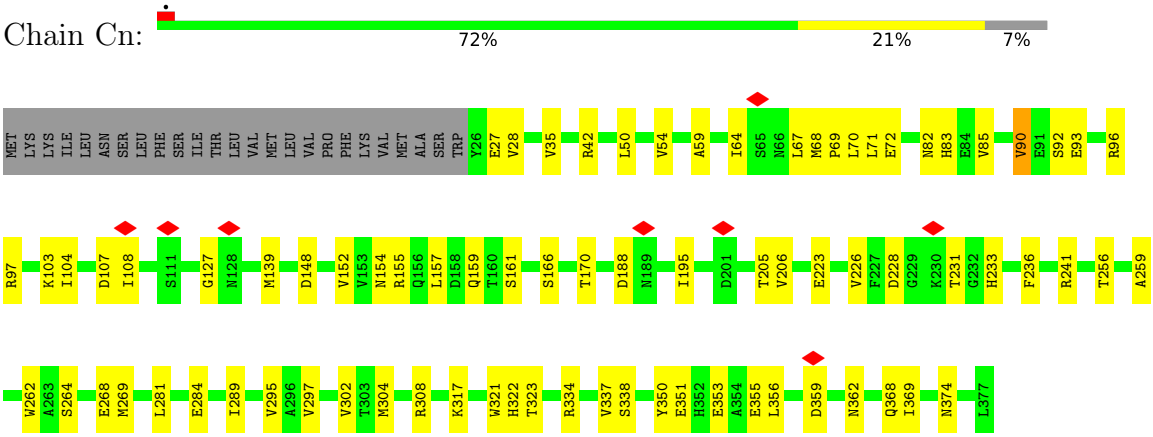


• Molecule 13: Flagella basal-body protein



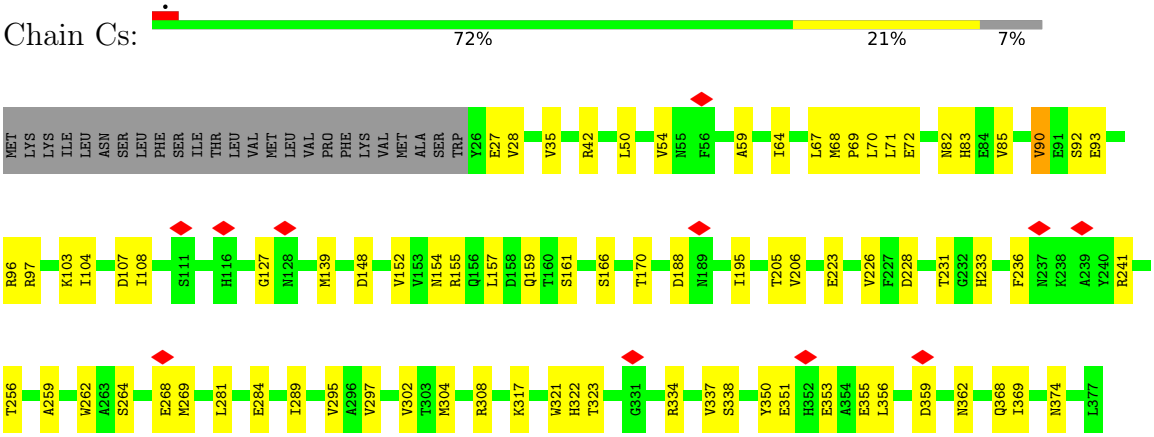
• Molecule 13: Flagella basal-body protein

Chain Cn:



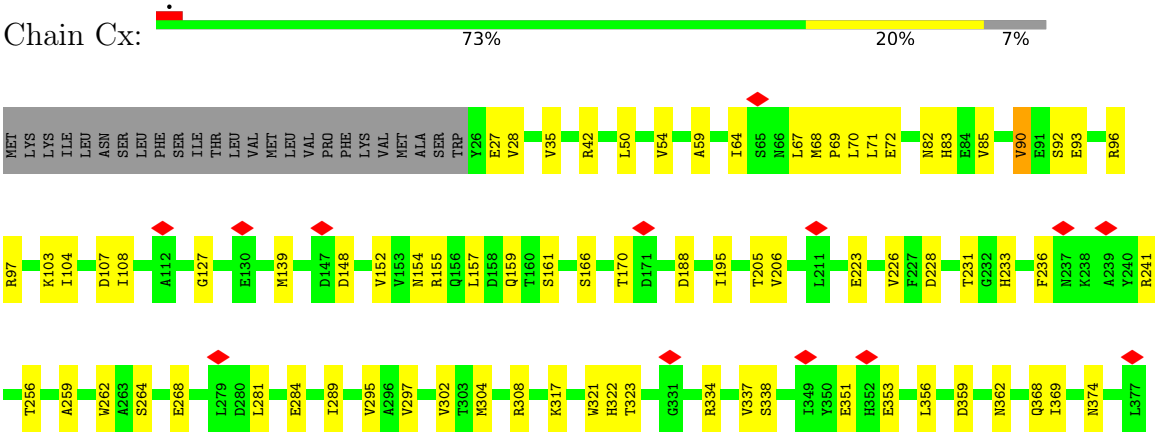
• Molecule 13: Flagella basal-body protein

Chain Cs:



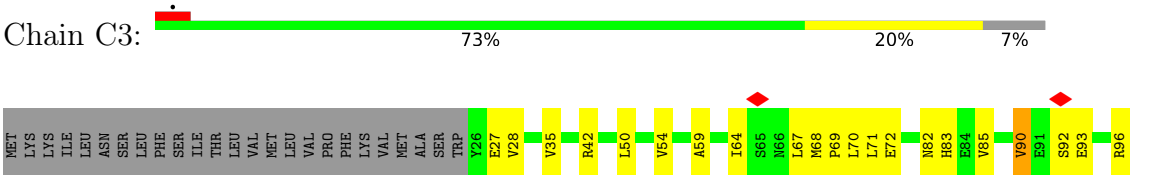
• Molecule 13: Flagella basal-body protein

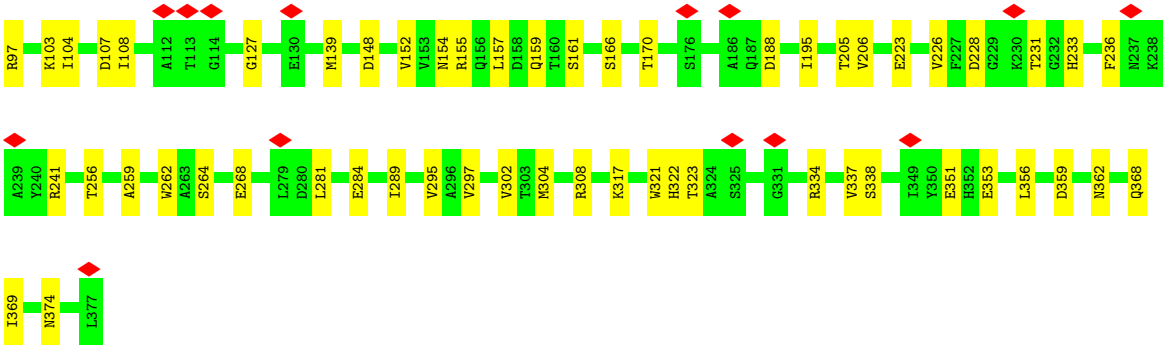
Chain Cx:



• Molecule 13: Flagella basal-body protein

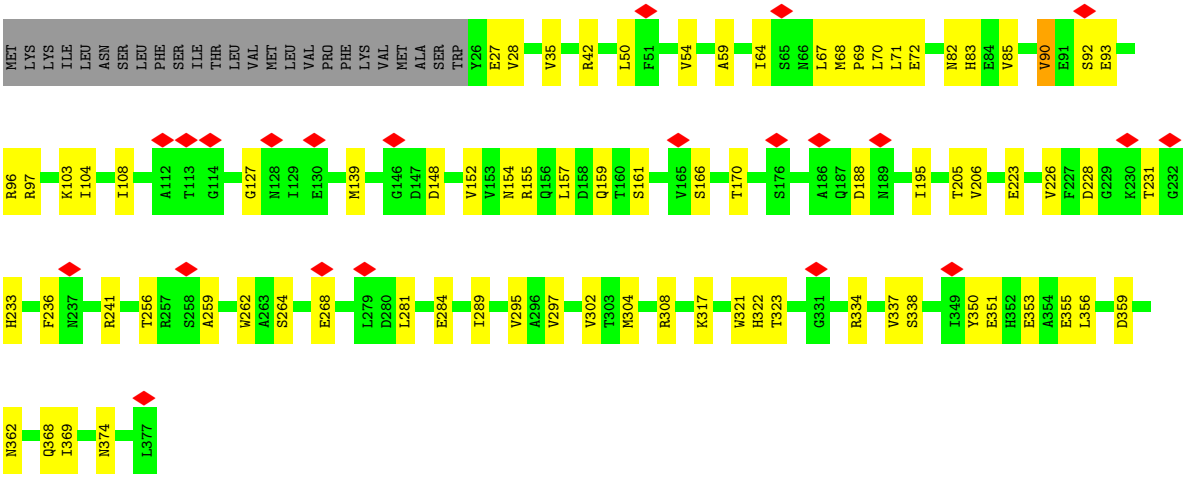
Chain C3:





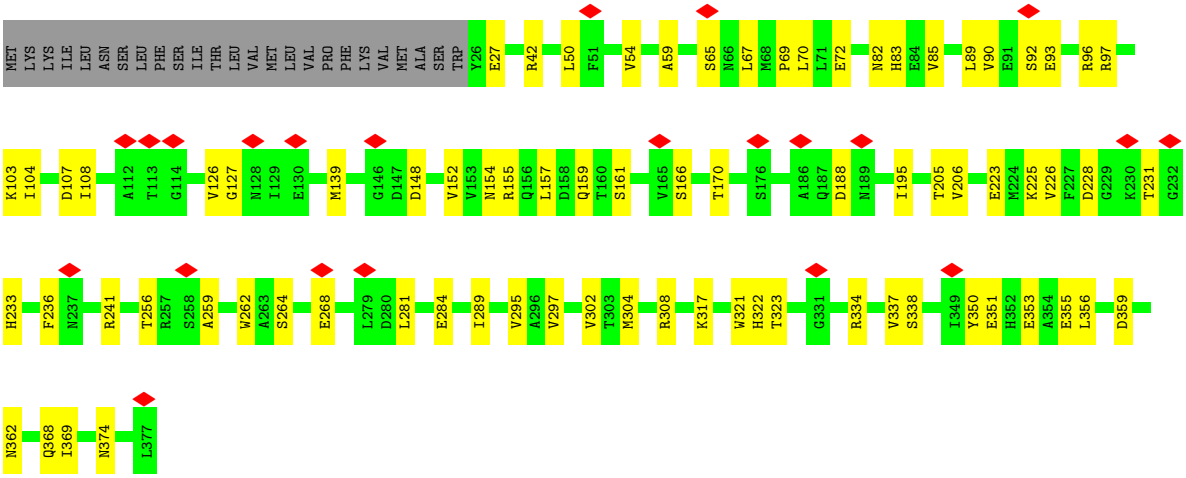
• Molecule 13: Flagella basal-body protein

Chain C8:



• Molecule 13: Flagella basal-body protein

Chain B1:



• Molecule 13: Flagella basal-body protein

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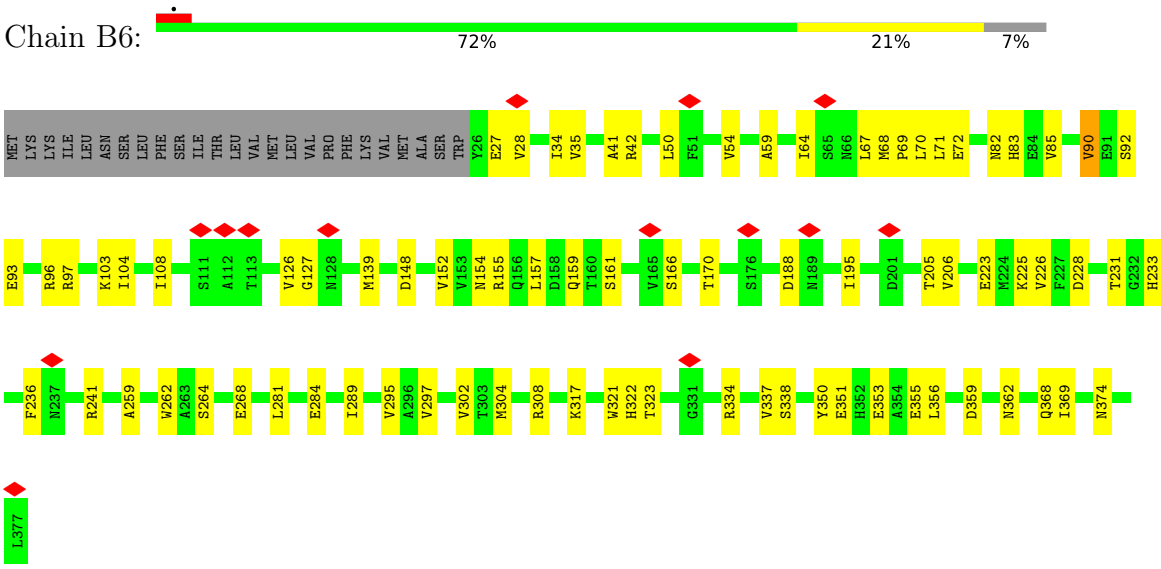
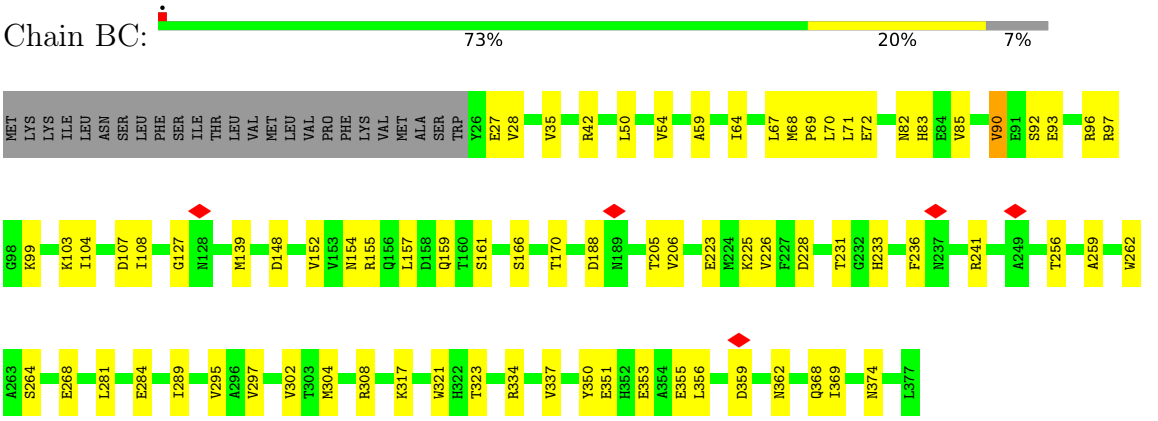


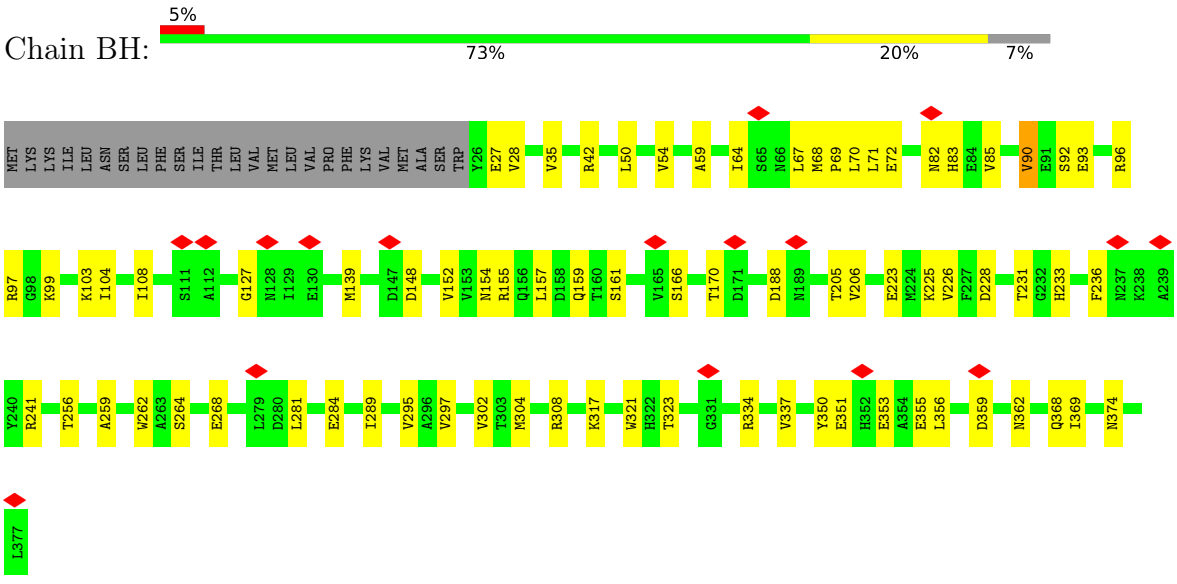
• Molecule 13: Flagella basal-body protein

Chain BC:



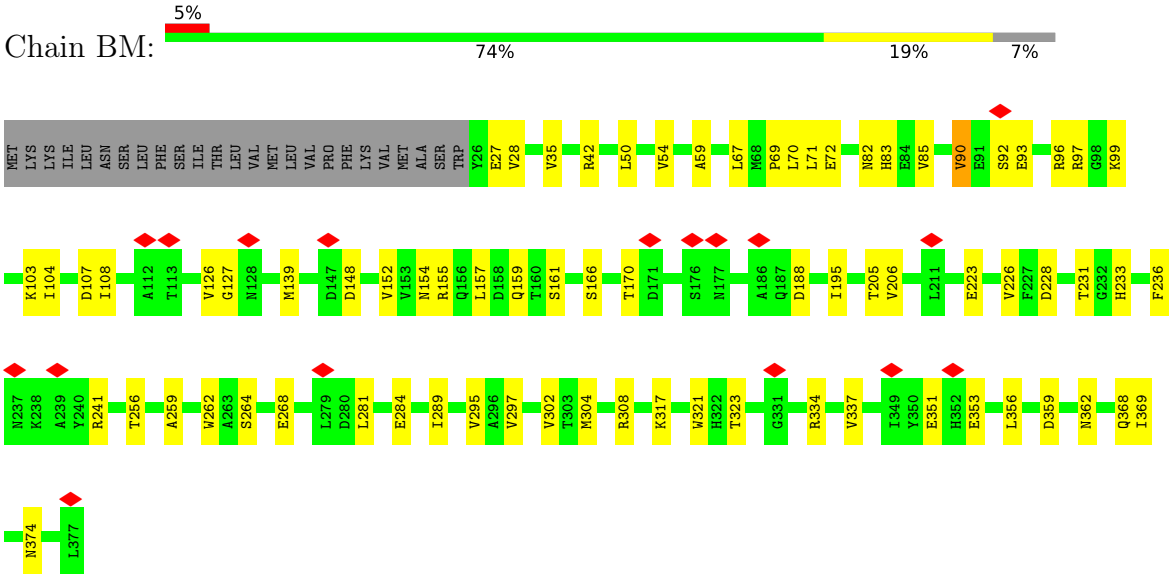
• Molecule 13: Flagella basal-body protein

Chain BH:



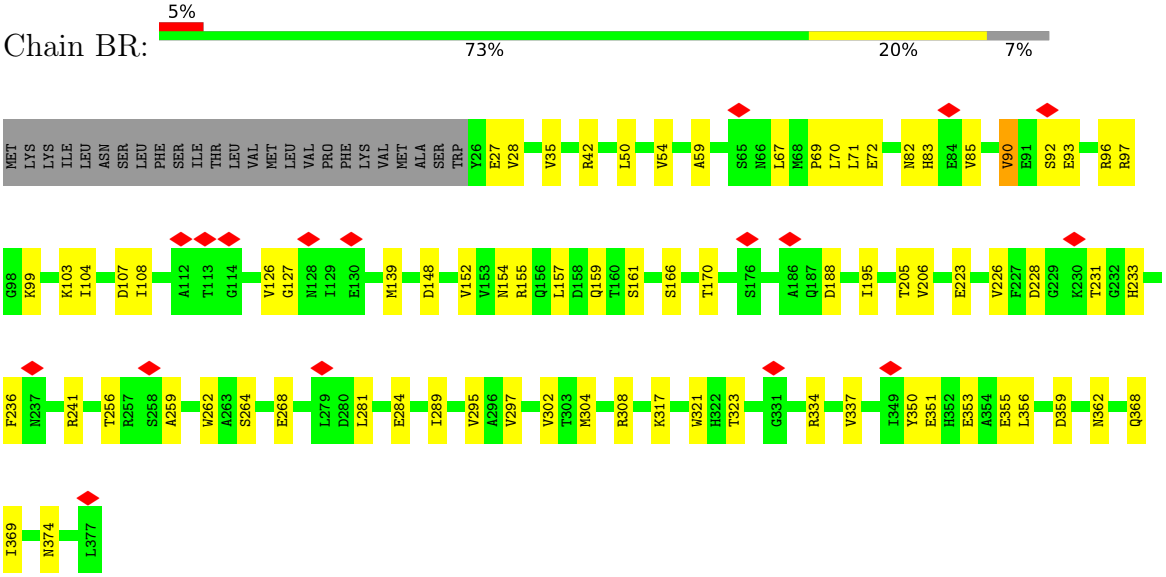
• Molecule 13: Flagella basal-body protein

Chain BM:



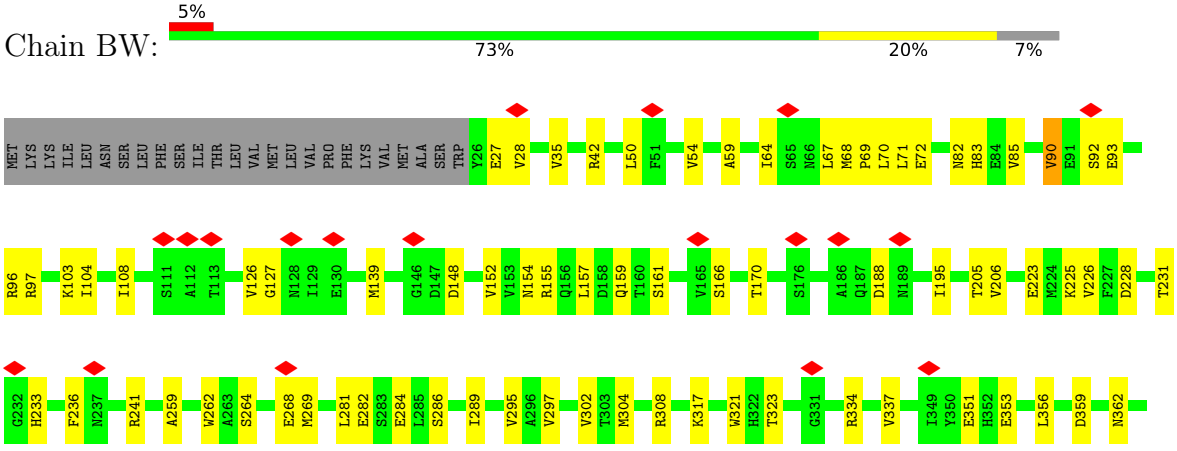
• Molecule 13: Flagella basal-body protein

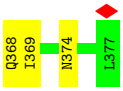
Chain BR:



• Molecule 13: Flagella basal-body protein

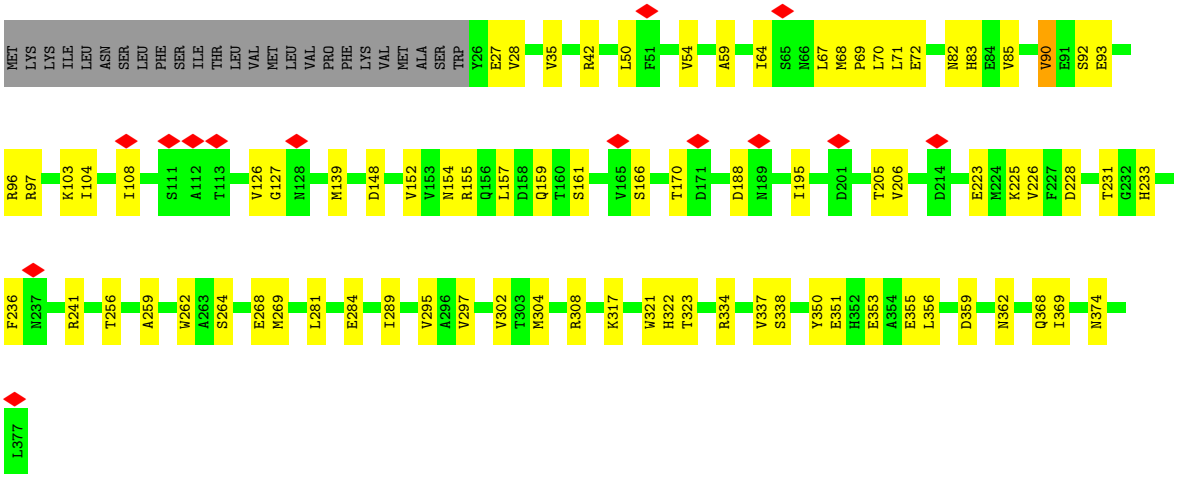
Chain BW:





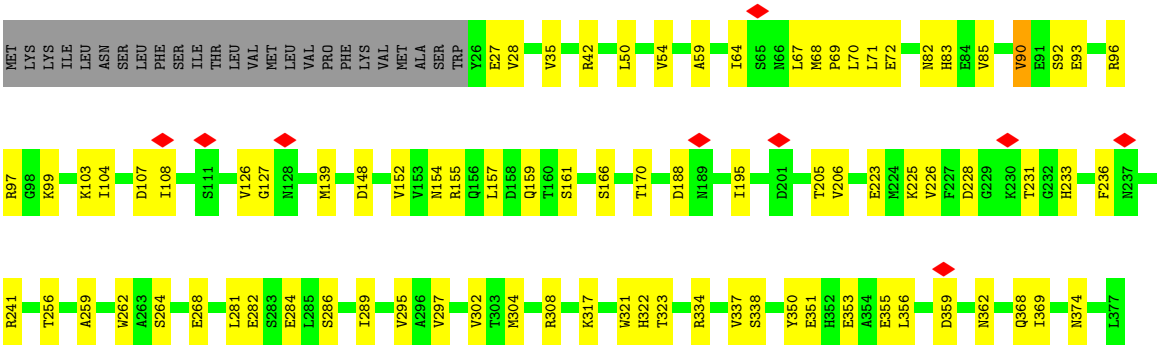
• Molecule 13: Flagella basal-body protein

Chain Bb:



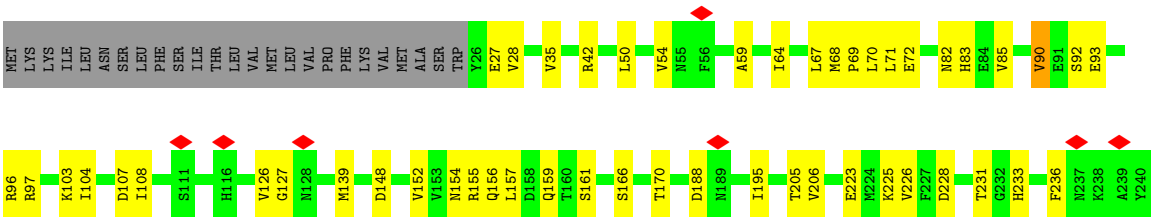
• Molecule 13: Flagella basal-body protein

Chain Bg:



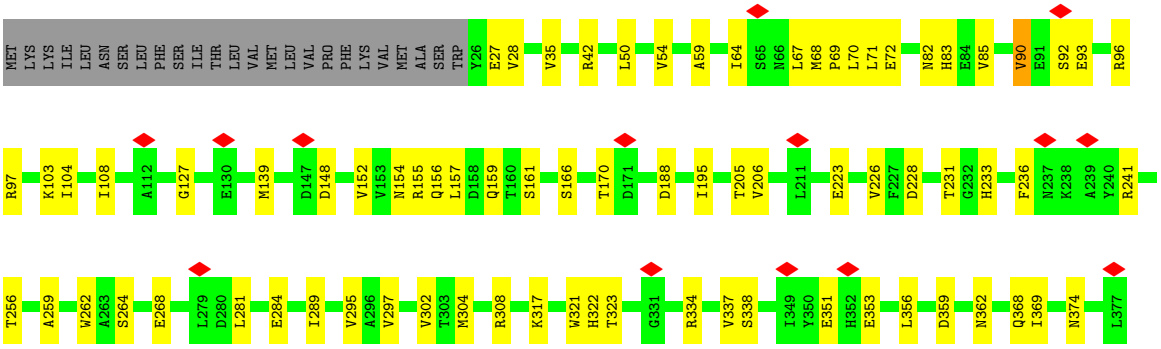
• Molecule 13: Flagella basal-body protein

Chain Bl:



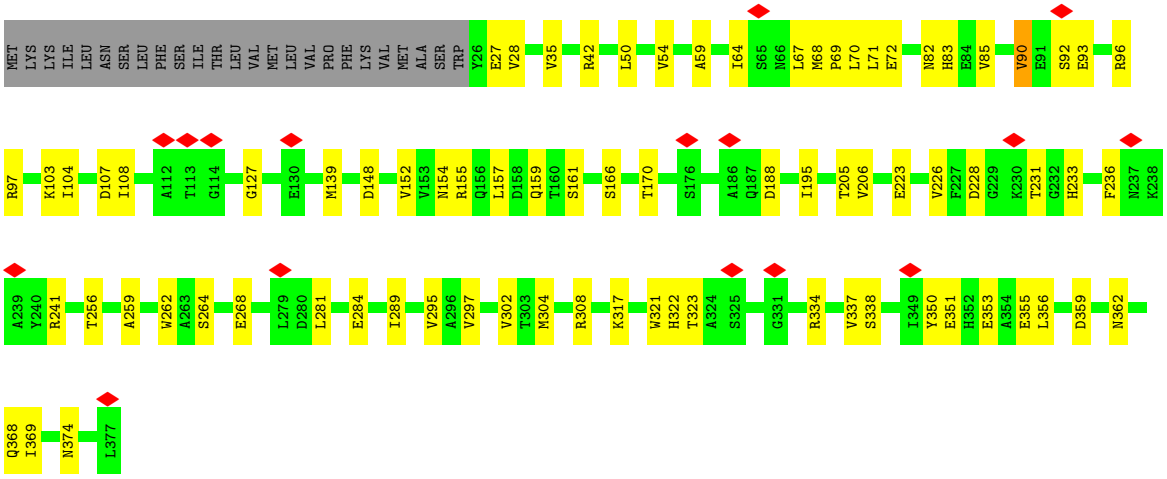
• Molecule 13: Flagella basal-body protein

Chain Bq:



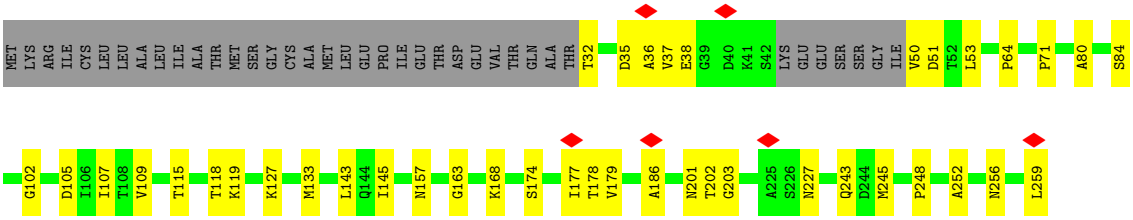
• Molecule 13: Flagella basal-body protein

Chain Bv:



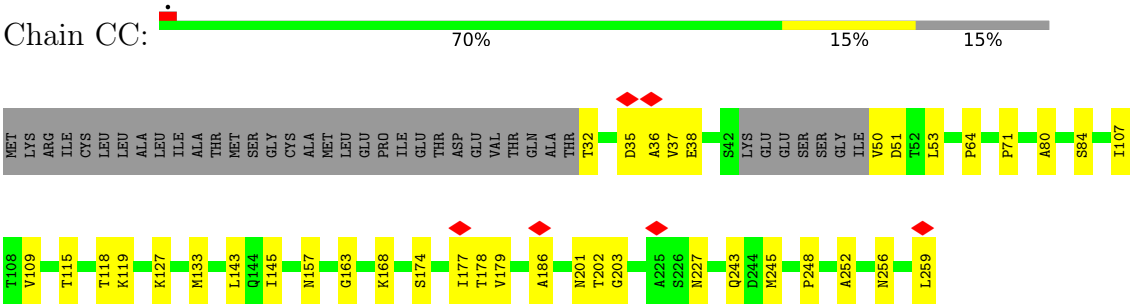
• Molecule 14: FlgH

Chain B8:



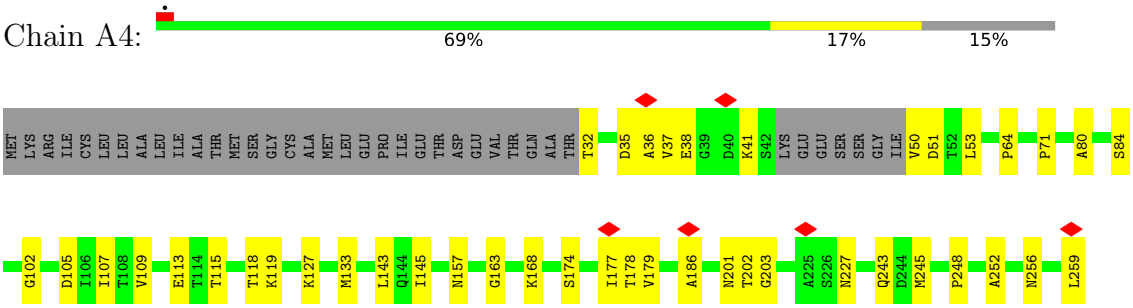
• Molecule 14: FlgH

Chain CC:



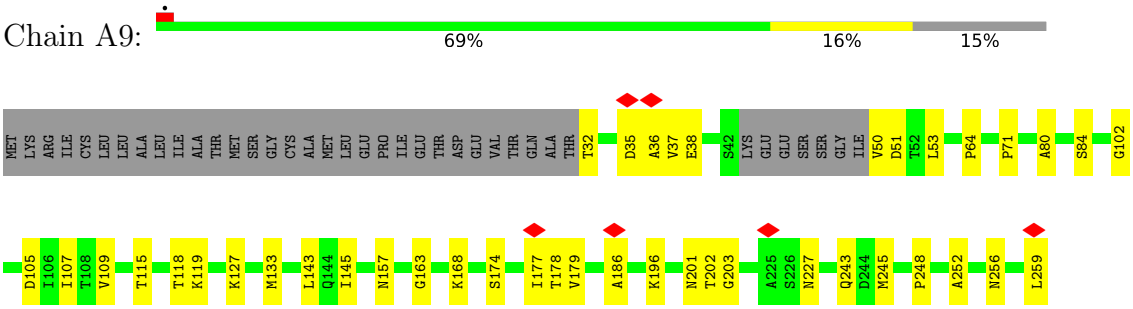
• Molecule 14: FlgH

Chain A4:



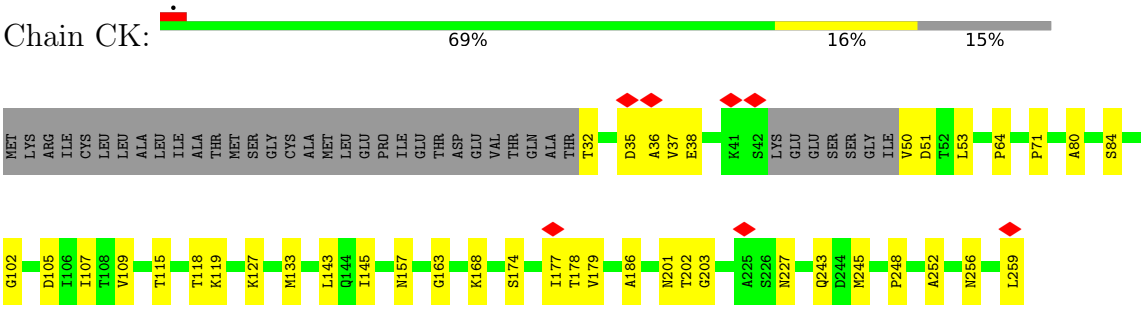
• Molecule 14: FlgH

Chain A9:



• Molecule 14: FlgH

Chain CK:



• Molecule 14: FlgH

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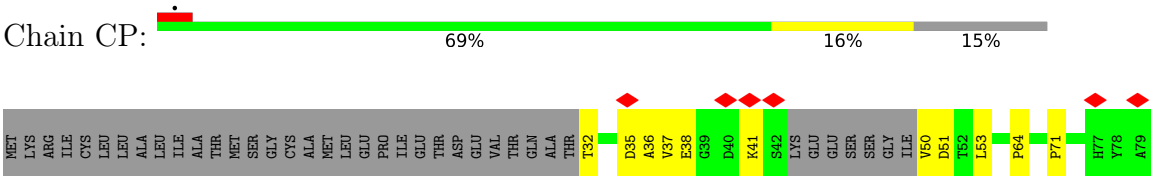
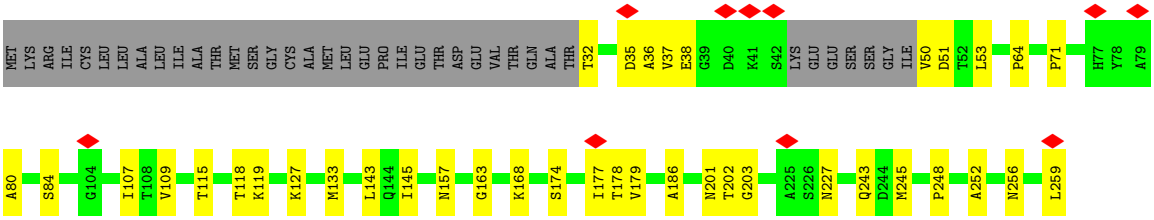


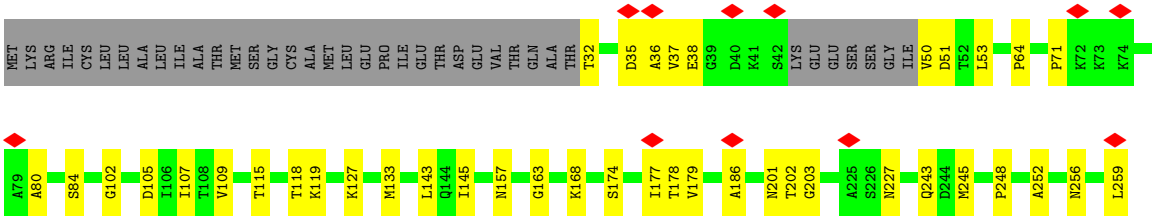
• Molecule 14: FlgH

Chain CU:



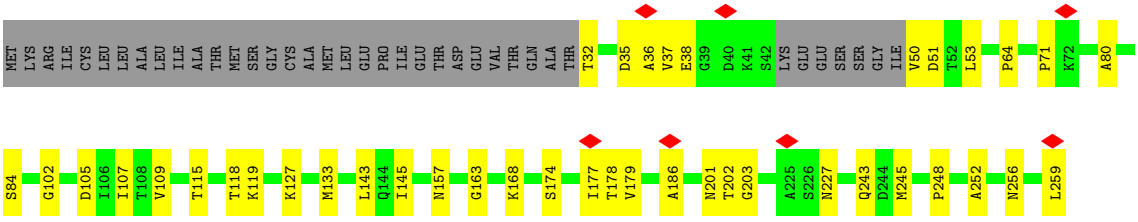
• Molecule 14: FlgH

Chain CZ:



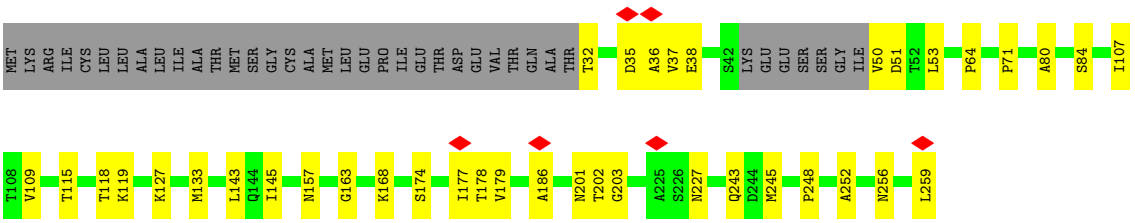
• Molecule 14: FlgH

Chain Ce:



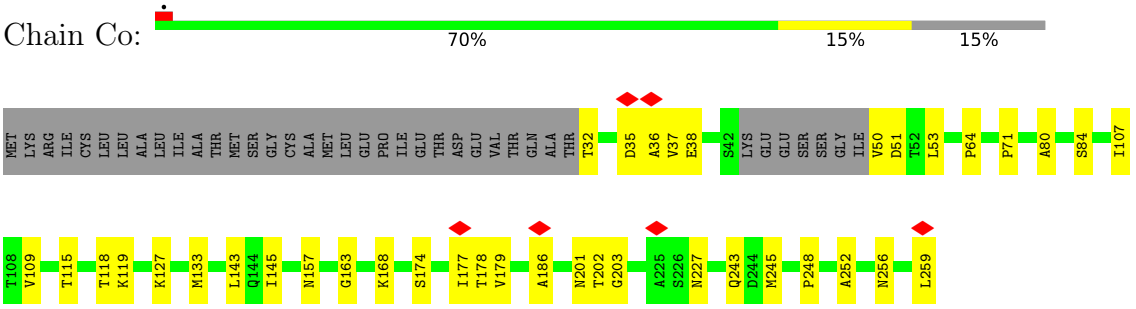
• Molecule 14: FlgH

Chain Cj:



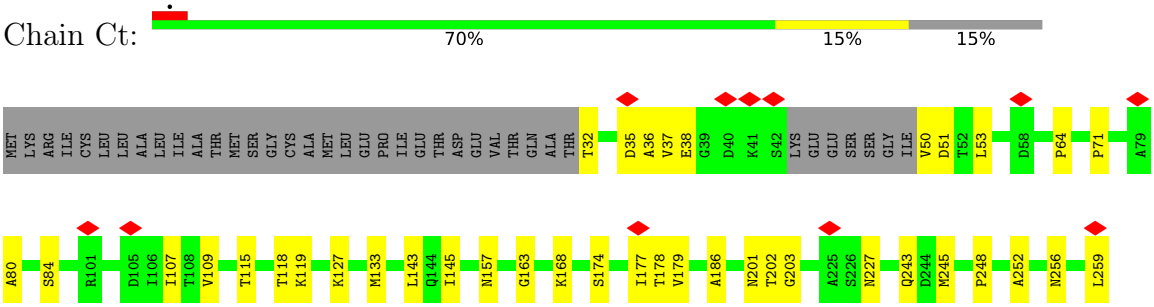
• Molecule 14: FlgH

Chain Co:



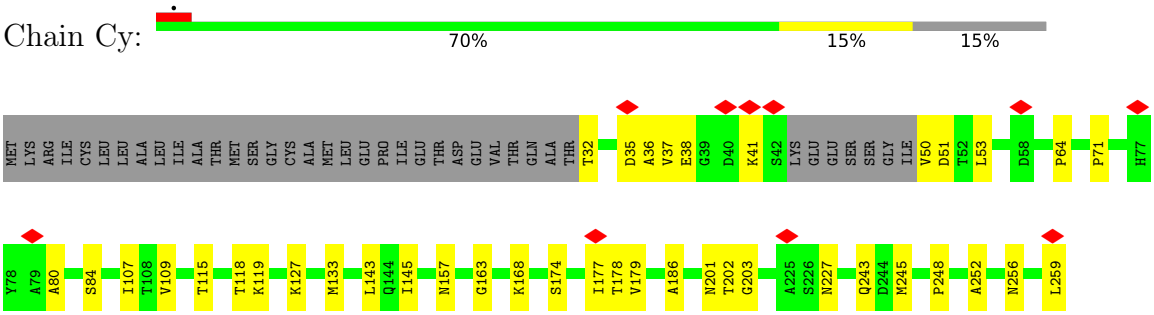
• Molecule 14: FlgH

Chain Ct:



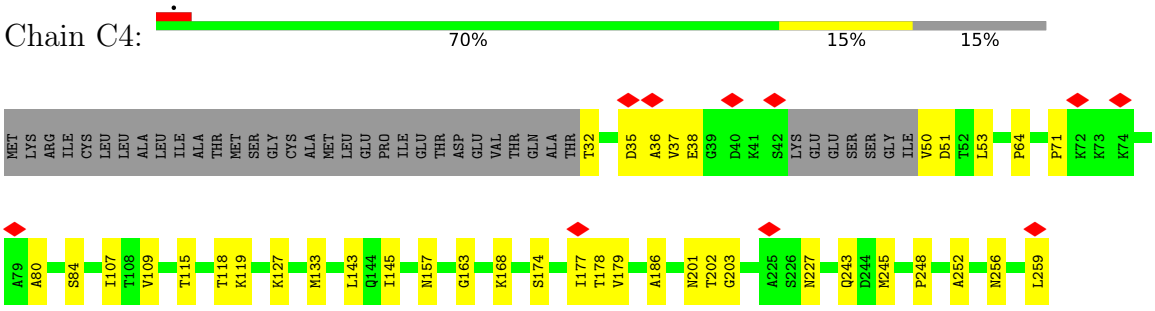
• Molecule 14: FlgH

Chain Cy:



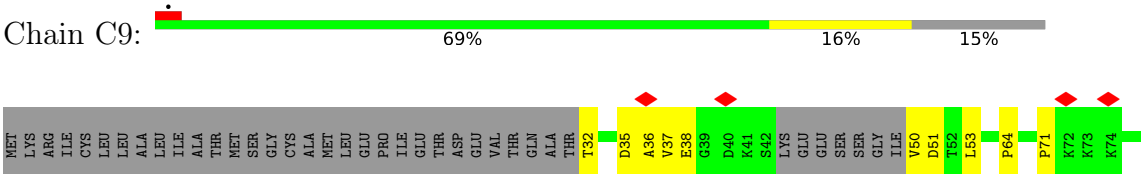
• Molecule 14: FlgH

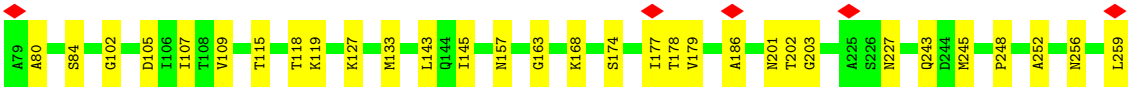
Chain C4:



• Molecule 14: FlgH

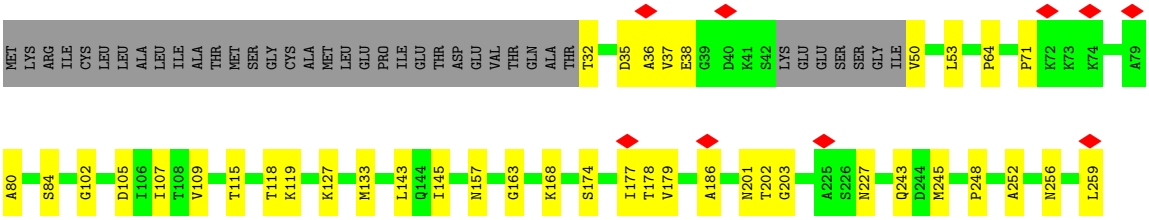
Chain C9:





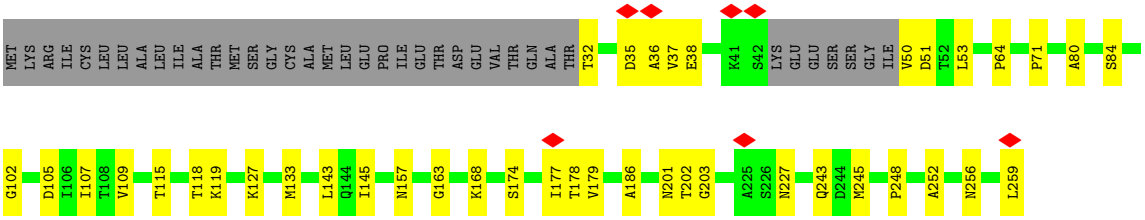
• Molecule 14: FlgH

Chain B2:



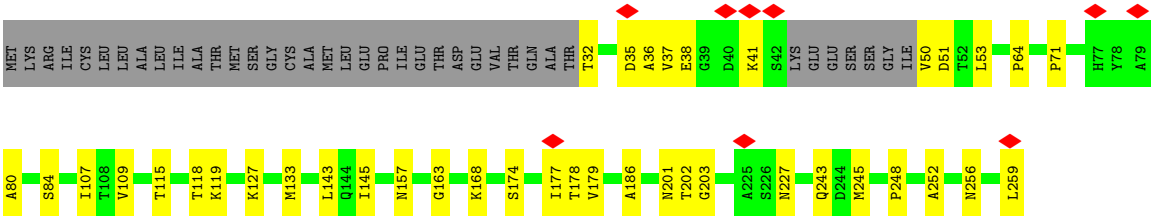
• Molecule 14: FlgH

Chain BD:



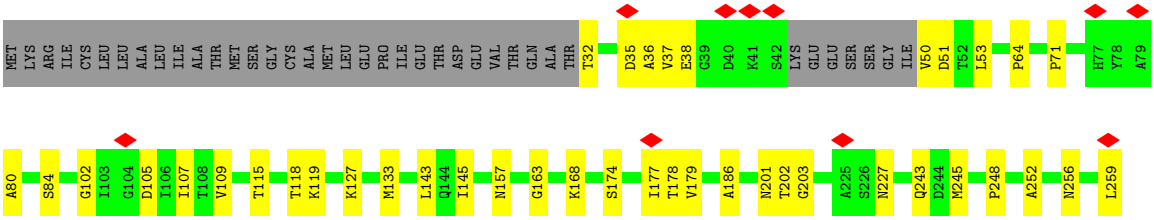
• Molecule 14: FlgH

Chain BI:



• Molecule 14: FlgH

Chain BN:



• Molecule 14: FlgH

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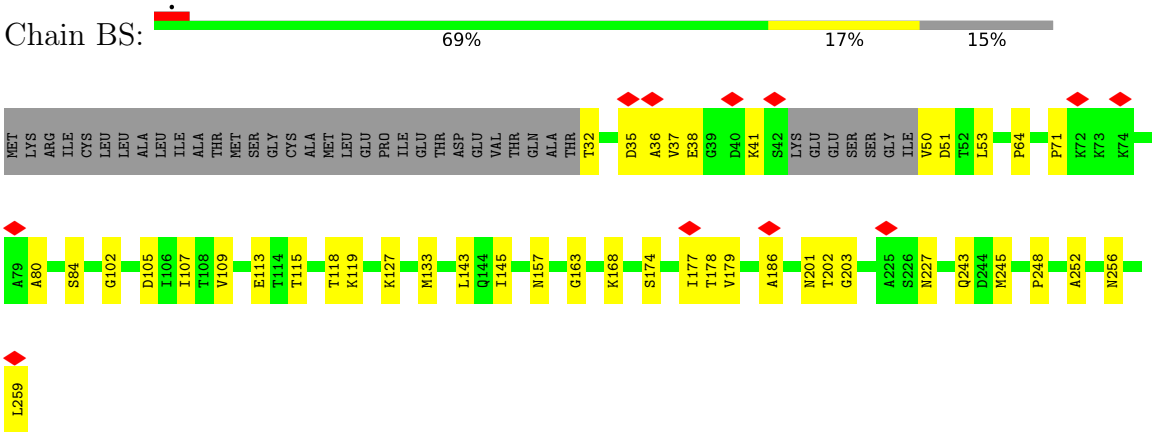

• Molecule 14: FlgH

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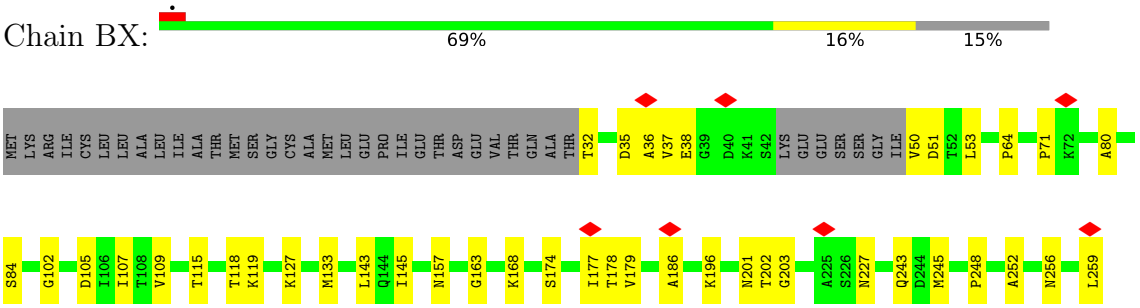
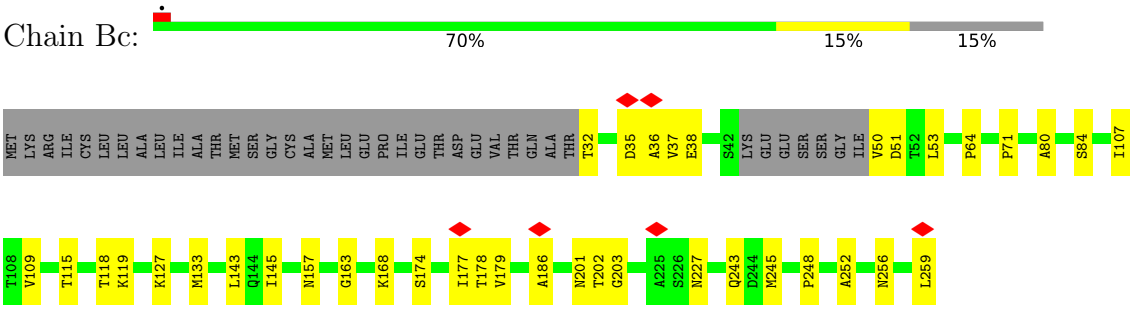


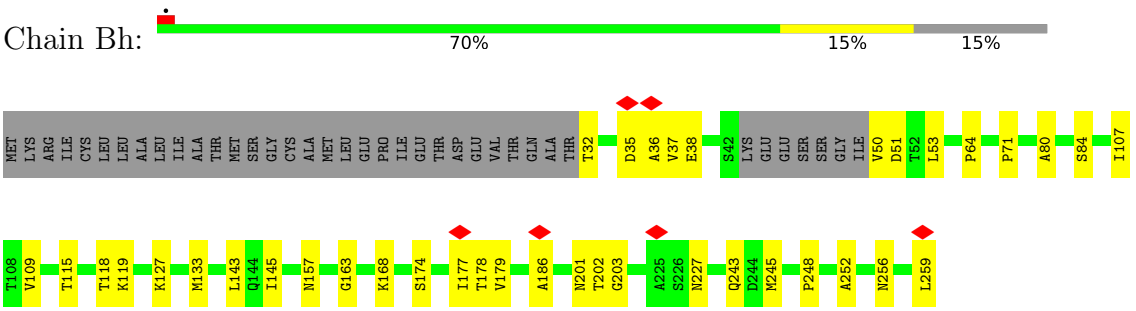
• Molecule 14: FlgH

Chain Bc:



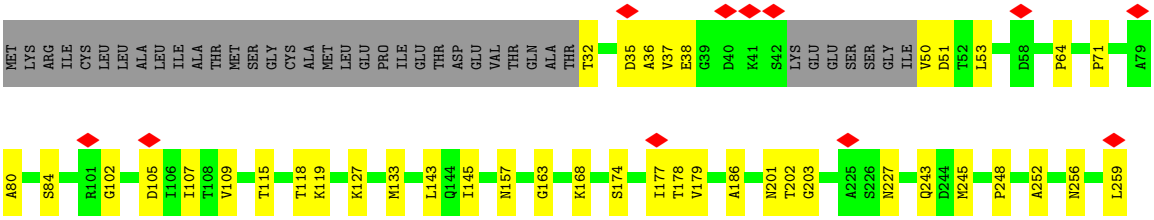
• Molecule 14: FlgH

Chain Bh:



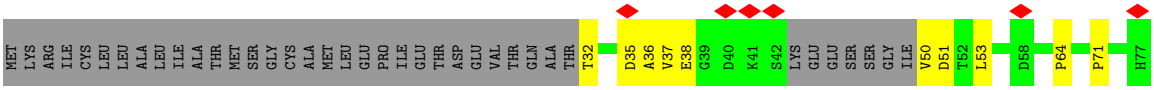
• Molecule 14: FlgH

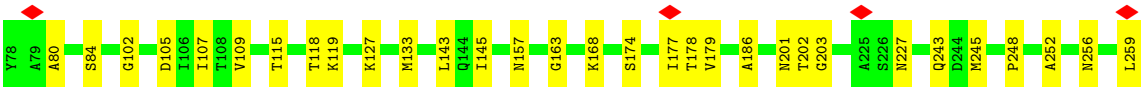
Chain Bm:



• Molecule 14: FlgH

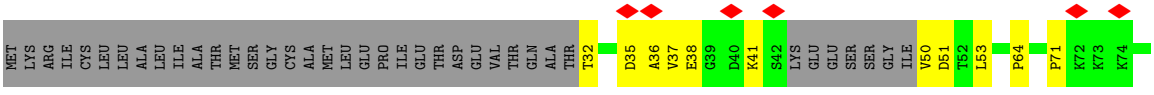
Chain Br:

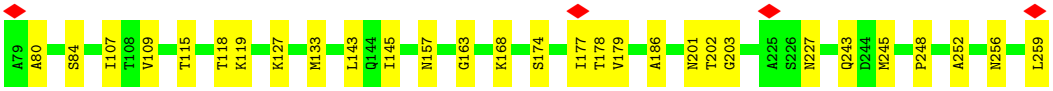




• Molecule 14: FlgH

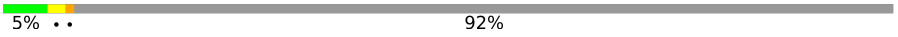
Chain Bw:

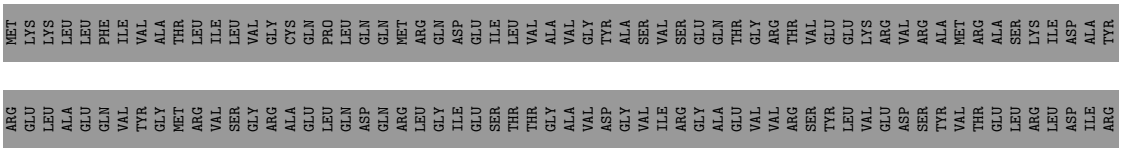




• Molecule 15: Flagellar assembly lipoprotein FlgP

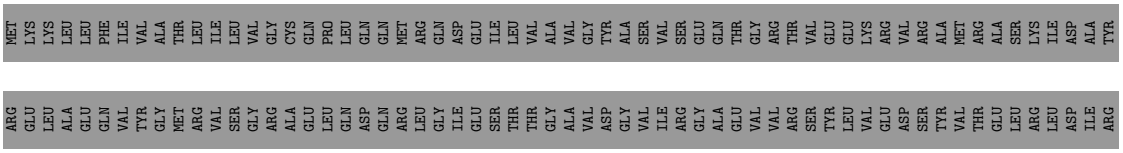
Chain B9:

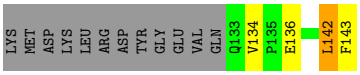




• Molecule 15: Flagellar assembly lipoprotein FlgP

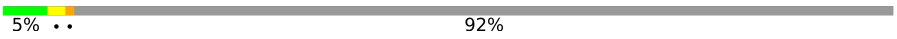
Chain CD:

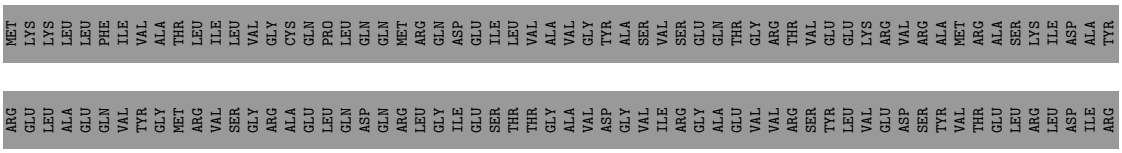


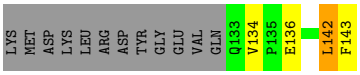


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain A0:

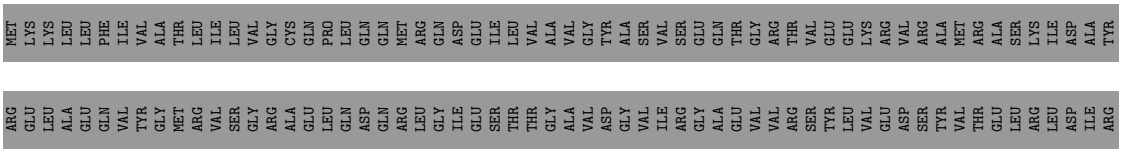


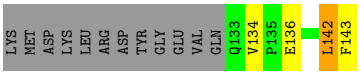




• Molecule 15: Flagellar assembly lipoprotein FlgP

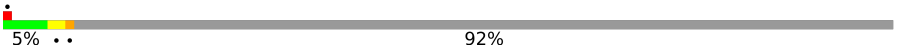
Chain A5:

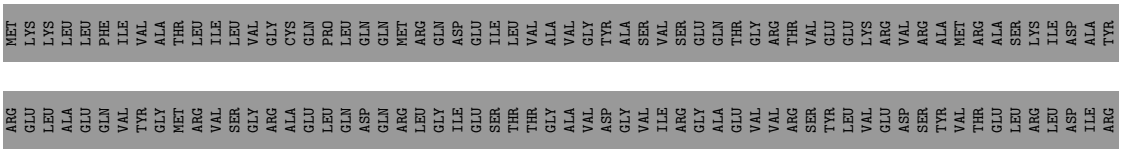


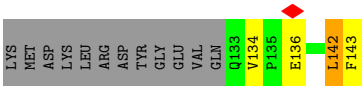


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain CL:

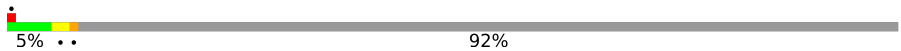


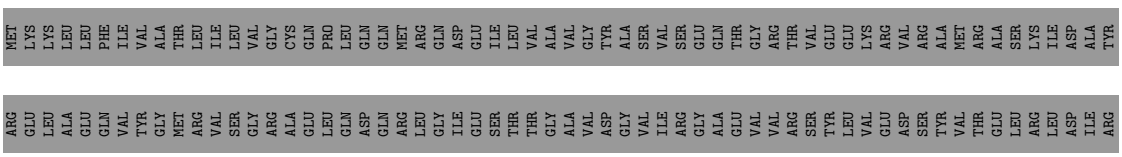


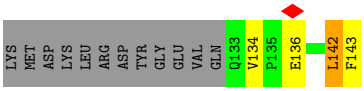


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain CQ:

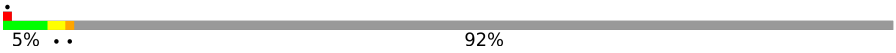


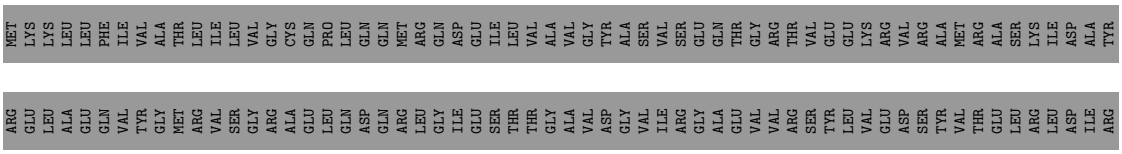


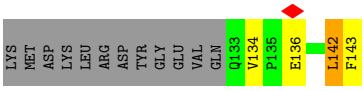


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain CV:

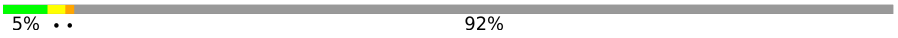


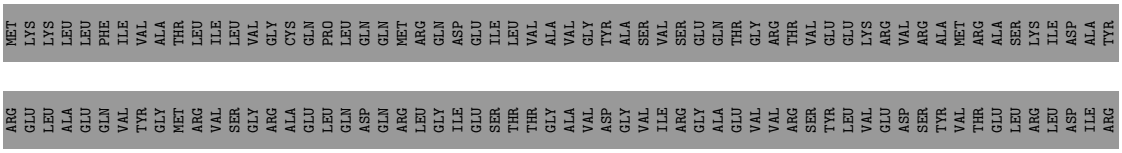


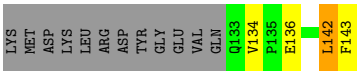


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain Ca:

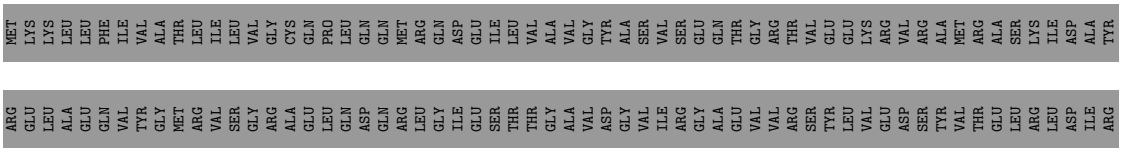


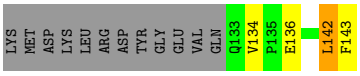




• Molecule 15: Flagellar assembly lipoprotein FlgP

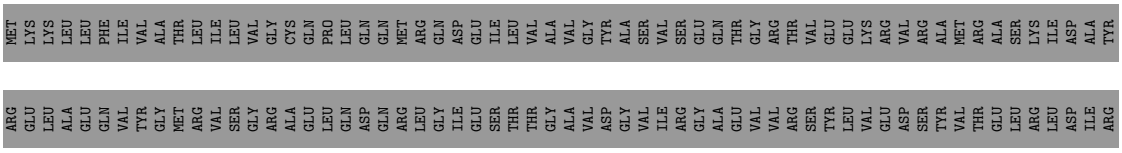
Chain Cf:

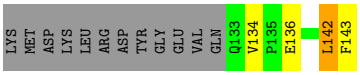




• Molecule 15: Flagellar assembly lipoprotein FlgP

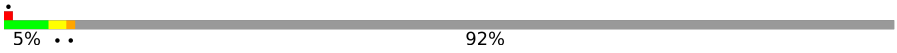
Chain Ck:

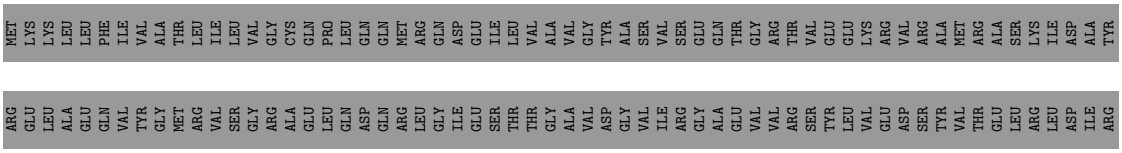


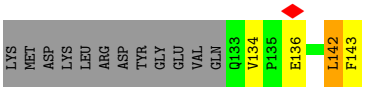


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain Cp:

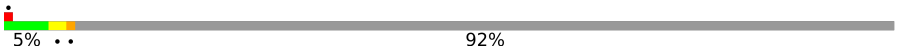


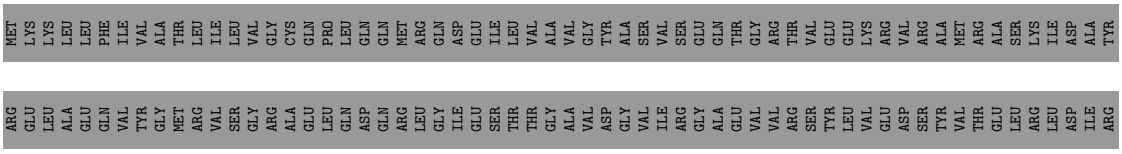


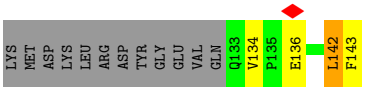


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain Cu:

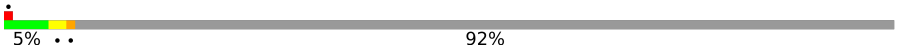


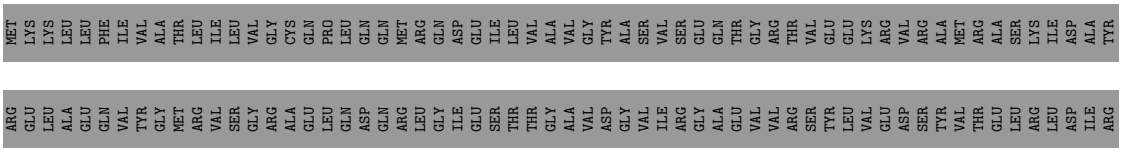


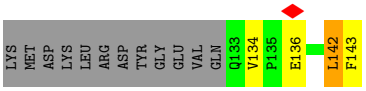


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain Cz:

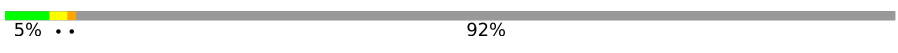


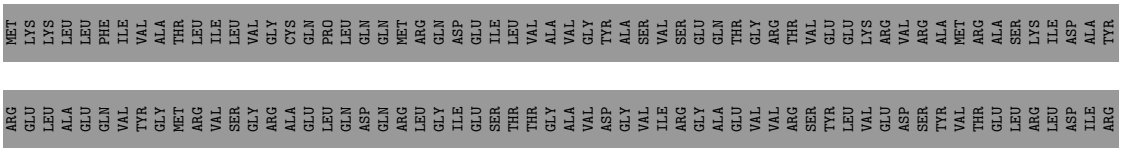


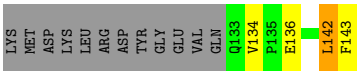


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain C5:

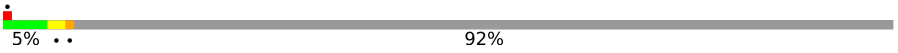


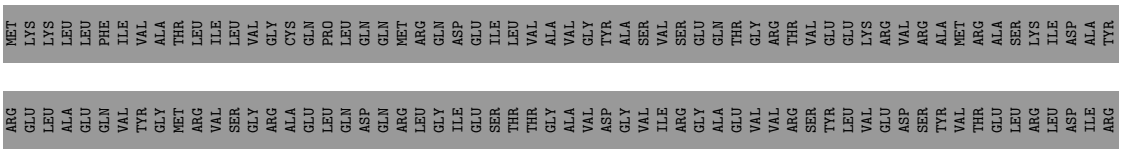


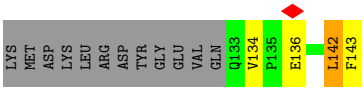


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain C0:

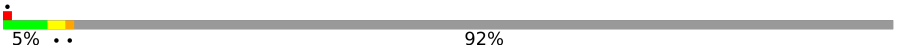


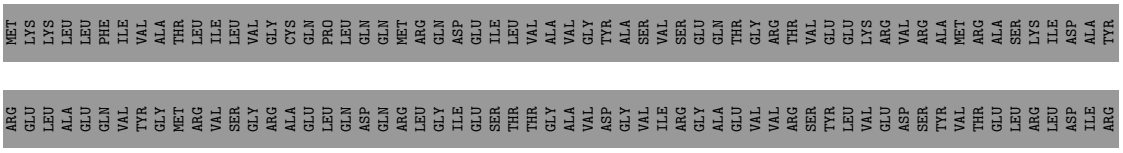


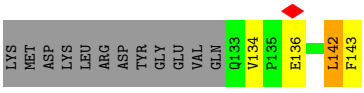


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain B3:

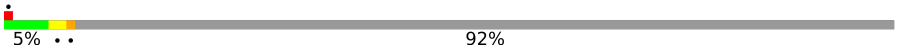


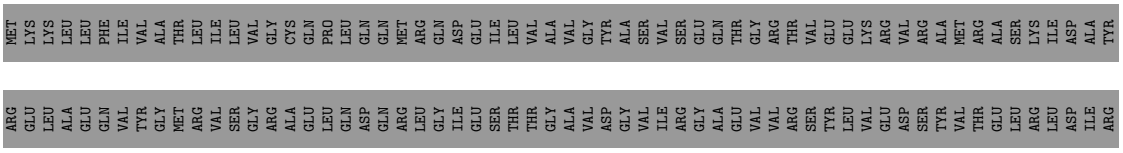


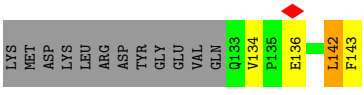


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain BE:

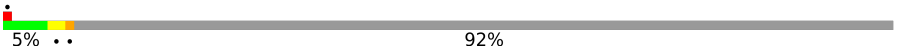


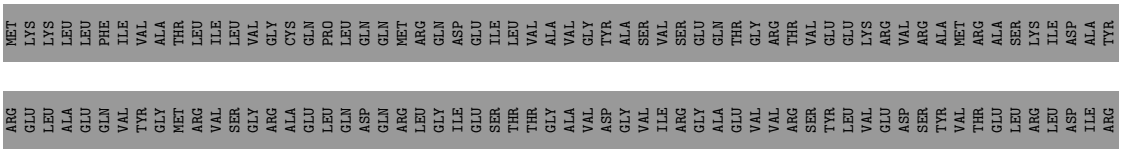


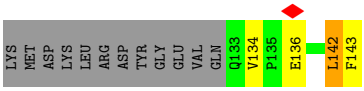


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain BJ:

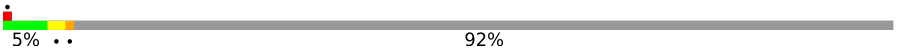


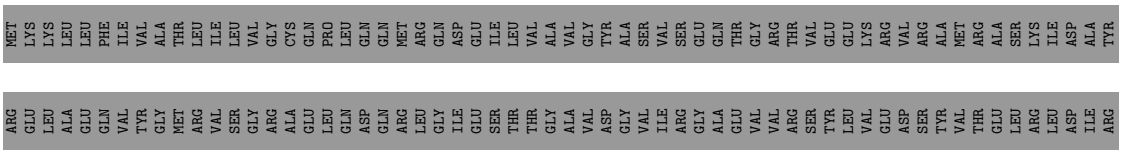


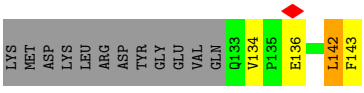


• Molecule 15: Flagellar assembly lipoprotein FlgP

Chain BO:

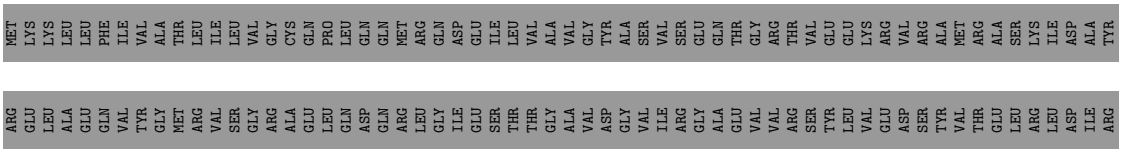


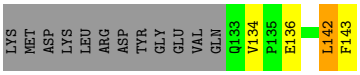




• Molecule 15: Flagellar assembly lipoprotein FlgP

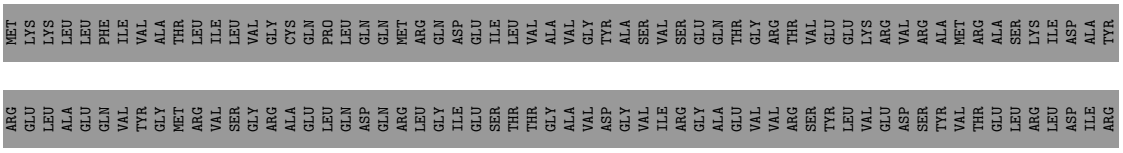
Chain BT:

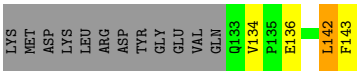




• Molecule 15: Flagellar assembly lipoprotein FlgP

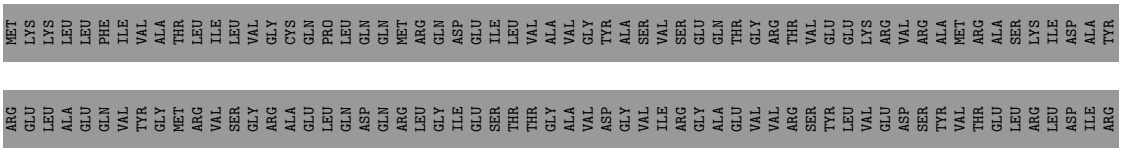
Chain BY:

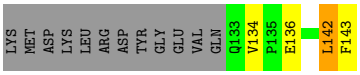




• Molecule 15: Flagellar assembly lipoprotein FlgP

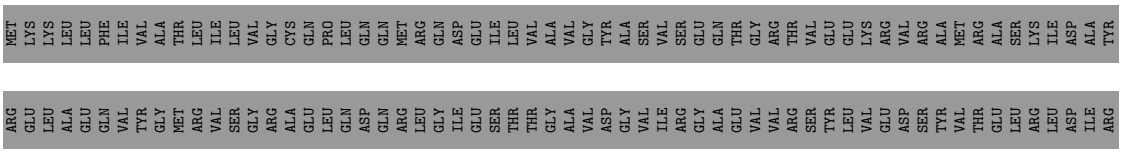
Chain Bd:

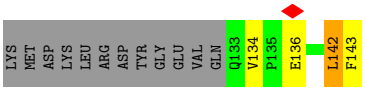




• Molecule 15: Flagellar assembly lipoprotein FlgP

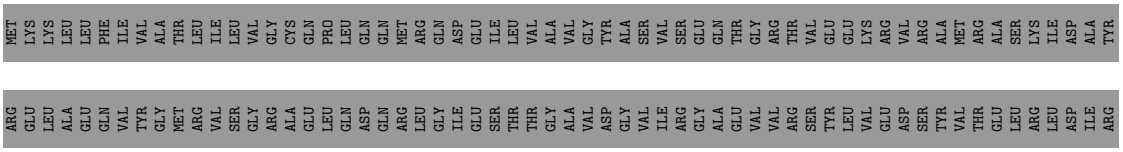
Chain Bi:

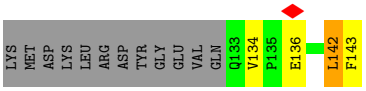




• Molecule 15: Flagellar assembly lipoprotein FlgP

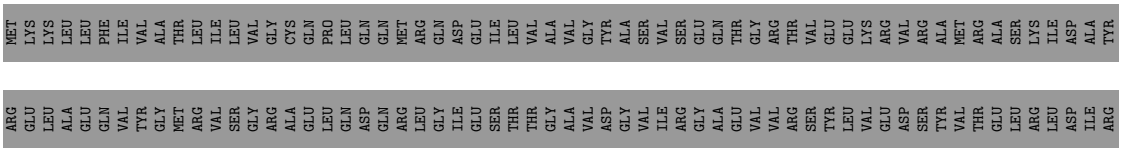
Chain Bn:

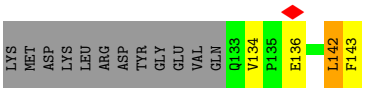




• Molecule 15: Flagellar assembly lipoprotein FlgP

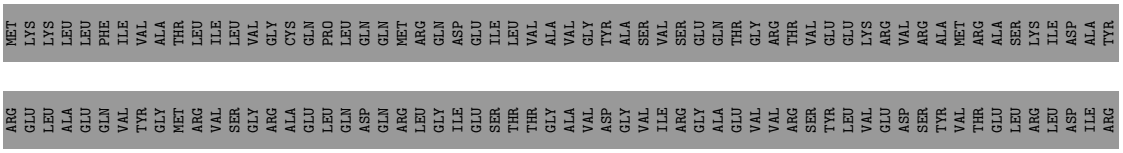
Chain Bs:

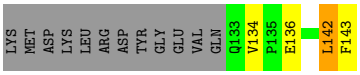




• Molecule 15: Flagellar assembly lipoprotein FlgP

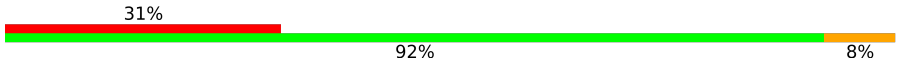
Chain Bx:

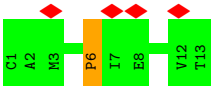




• Molecule 16: FlgH

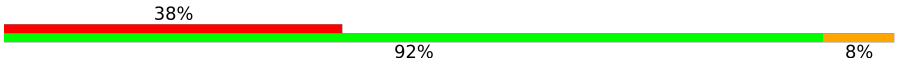
Chain B0:

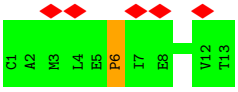




• Molecule 16: FlgH

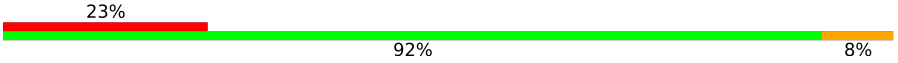
Chain CE:

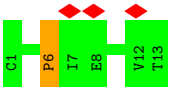




• Molecule 16: FlgH

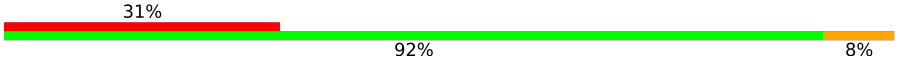
Chain CH:

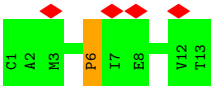




• Molecule 16: FlgH

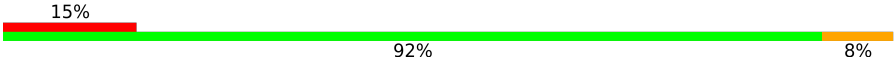
Chain A6:

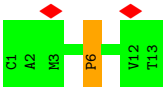




• Molecule 16: FlgH

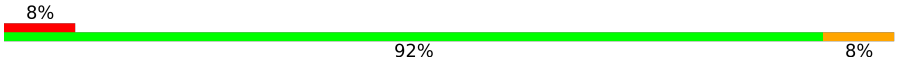
Chain CM:

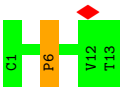




• Molecule 16: FlgH

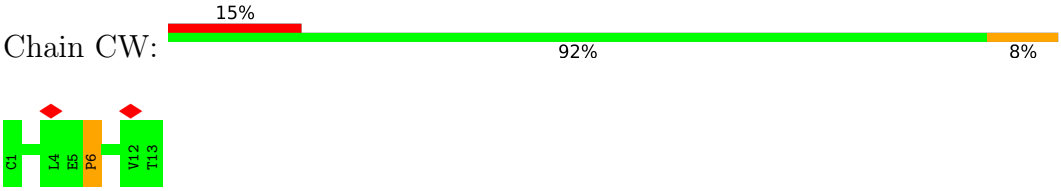
Chain CR:





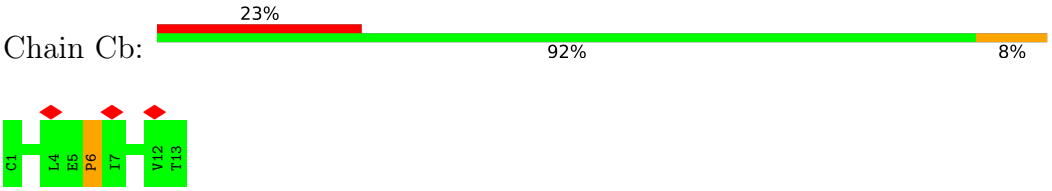
• Molecule 16: FlgH

Chain CW:



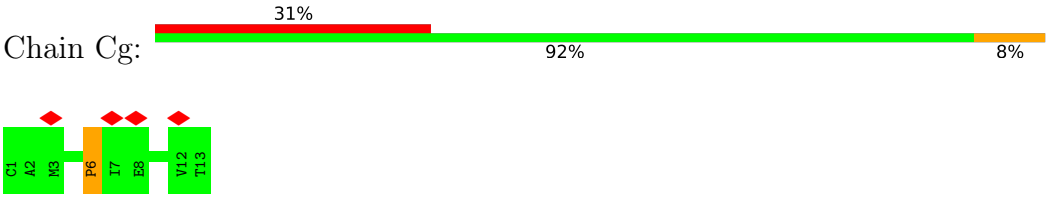
• Molecule 16: FlgH

Chain Cb:



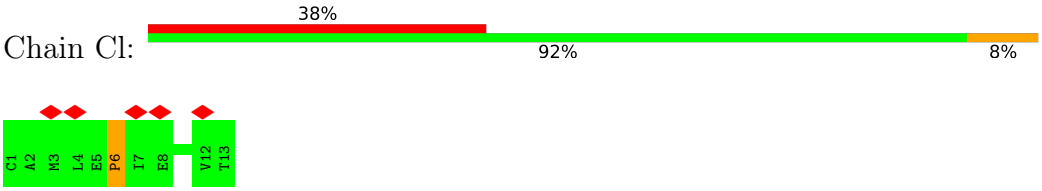
• Molecule 16: FlgH

Chain Cg:



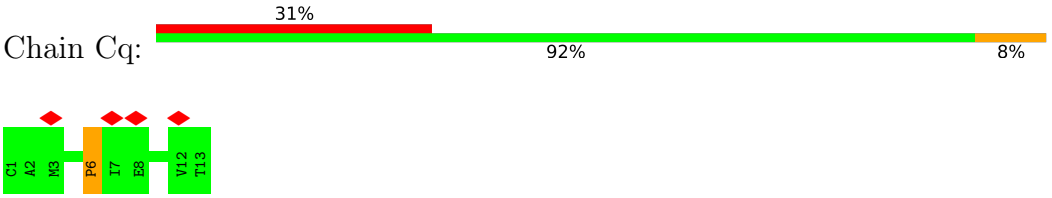
• Molecule 16: FlgH

Chain Cl:



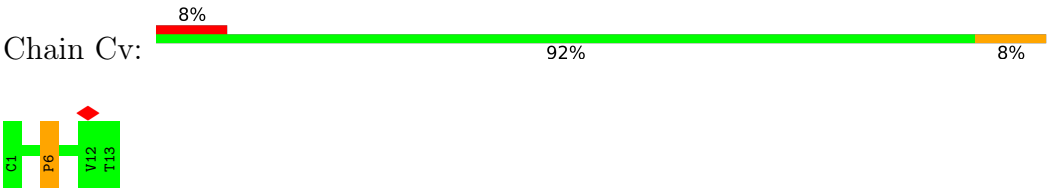
• Molecule 16: FlgH

Chain Cq:



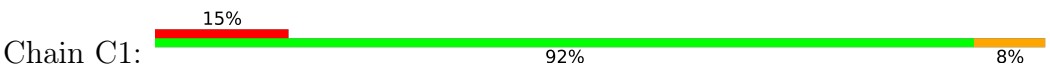
• Molecule 16: FlgH

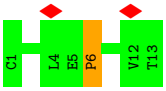
Chain Cv:



• Molecule 16: FlgH

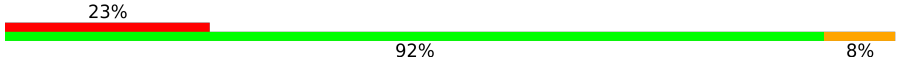
Chain C1:

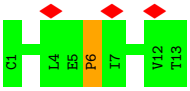




• Molecule 16: FlgH

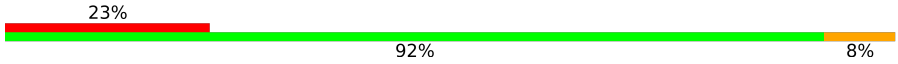
Chain C6:

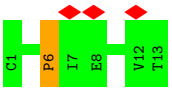




• Molecule 16: FlgH

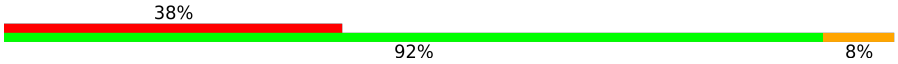
Chain B4:

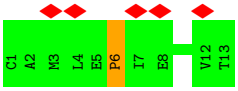




• Molecule 16: FlgH

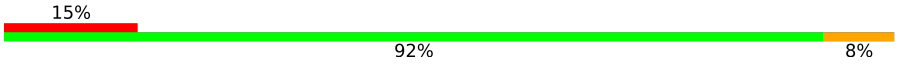
Chain BA:

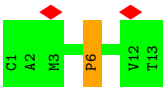




• Molecule 16: FlgH

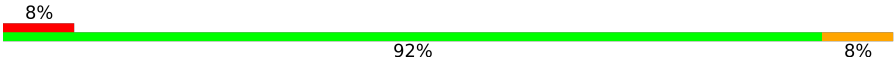
Chain BF:

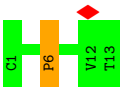




• Molecule 16: FlgH

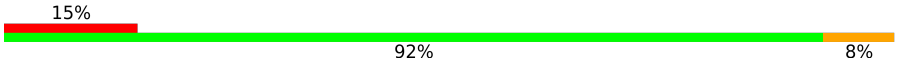
Chain BK:

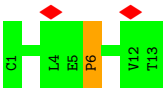




• Molecule 16: FlgH

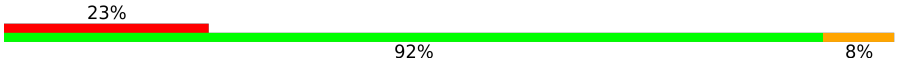
Chain BP:

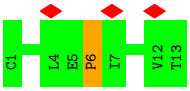




• Molecule 16: FlgH

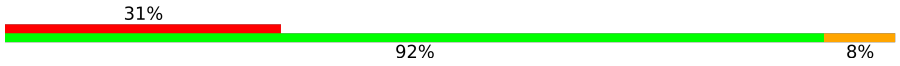
Chain BU:

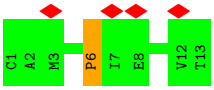




• Molecule 16: FlgH

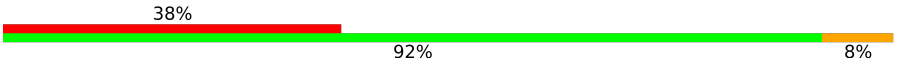
Chain BZ:

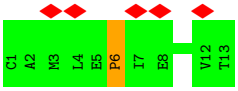




• Molecule 16: FlgH

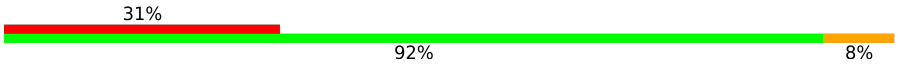
Chain Be:

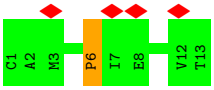




• Molecule 16: FlgH

Chain Bj:





• Molecule 16: FlgH

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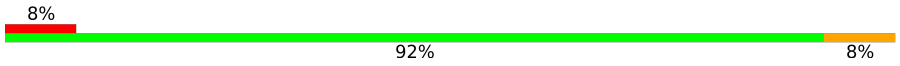
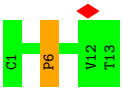
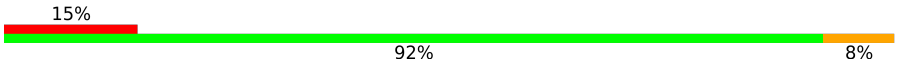
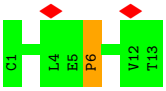




• Molecule 16: FlgH

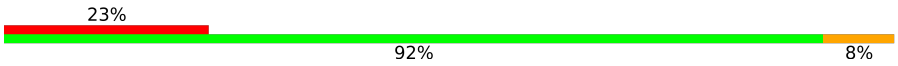
Chain Bt:

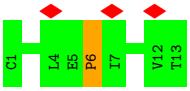




• Molecule 16: FlgH

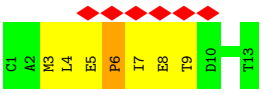
Chain By:





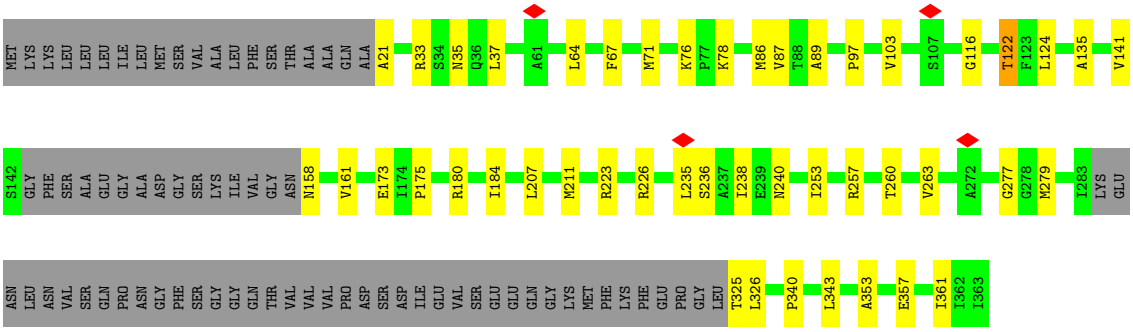
• Molecule 16: FlgH

Chain D0:



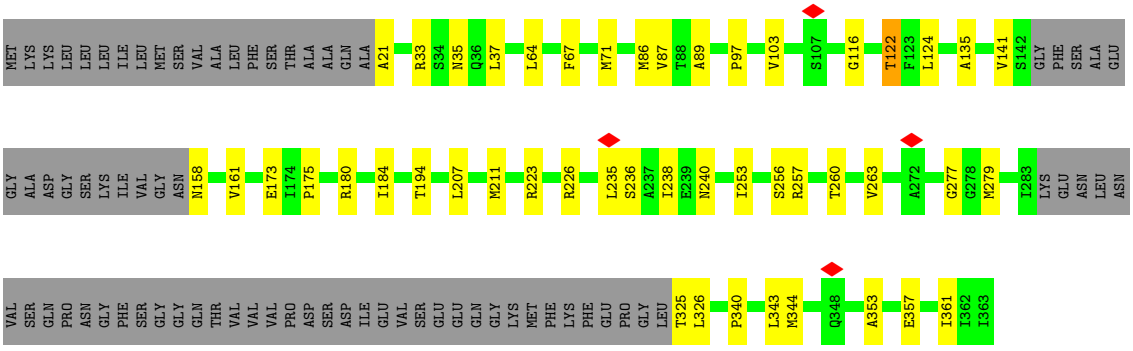
• Molecule 17: FlgI

Chain CA:



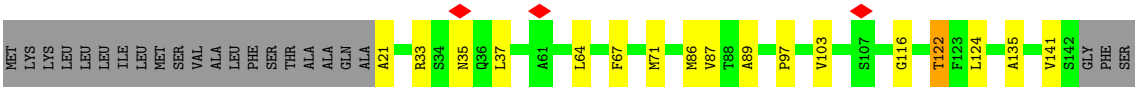
• Molecule 17: FlgI

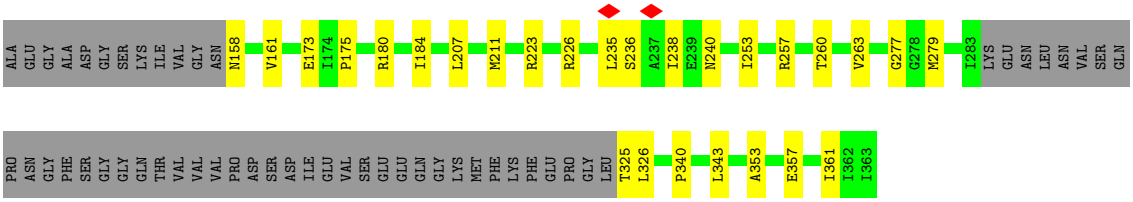
Chain CF:



• Molecule 17: FlgI

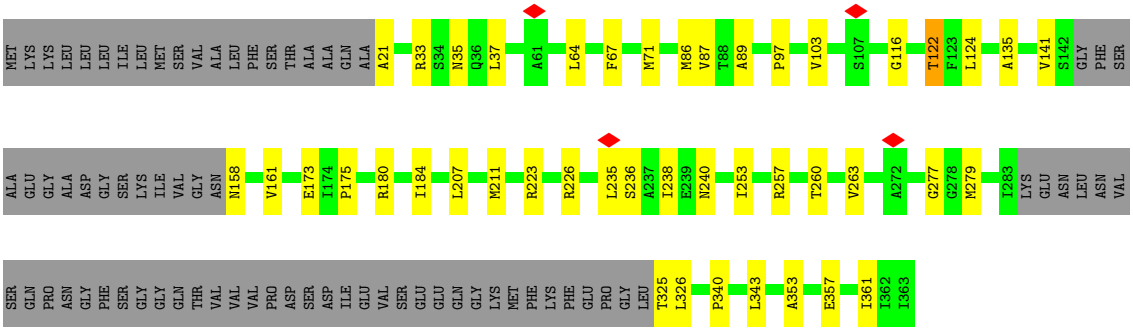
Chain CI:





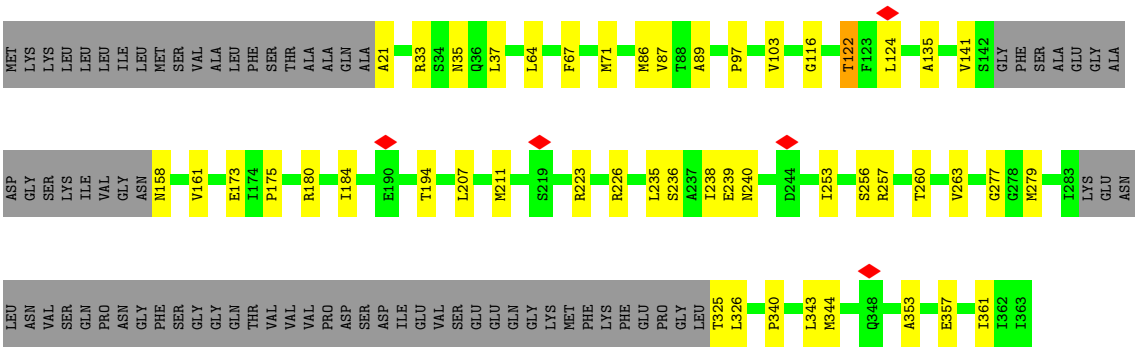
• Molecule 17: FlgI

Chain A7:



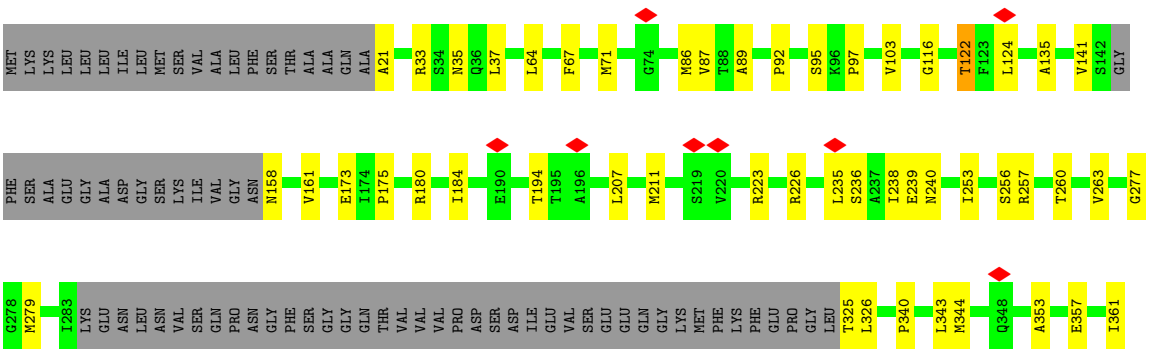
• Molecule 17: FlgI

Chain CN:



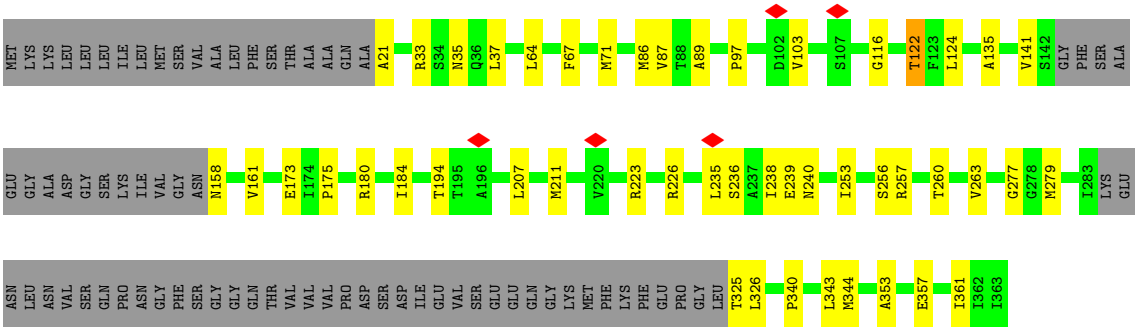
• Molecule 17: FlgI

Chain CS:



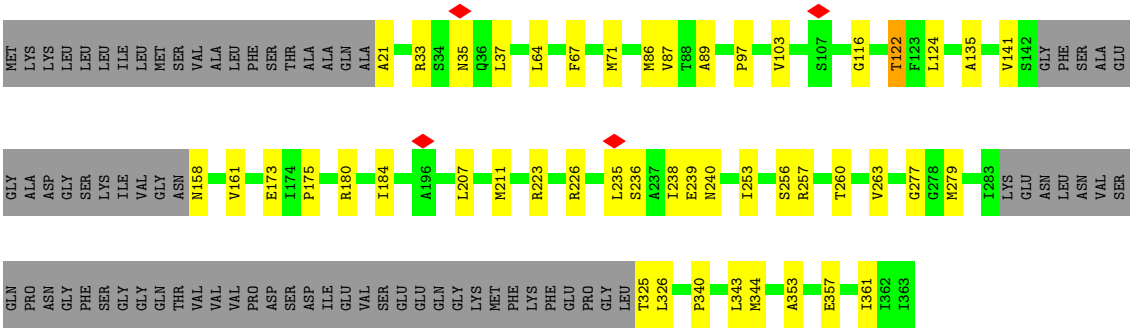
• Molecule 17: FlgI

Chain CX:



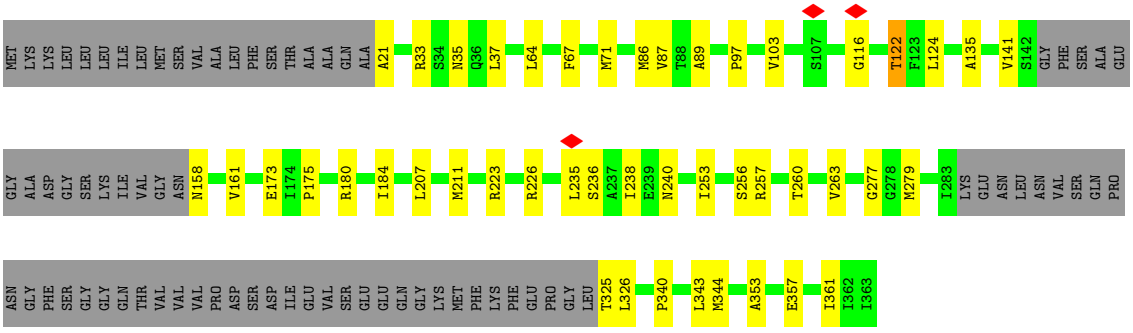
• Molecule 17: FlgI

Chain Cc:



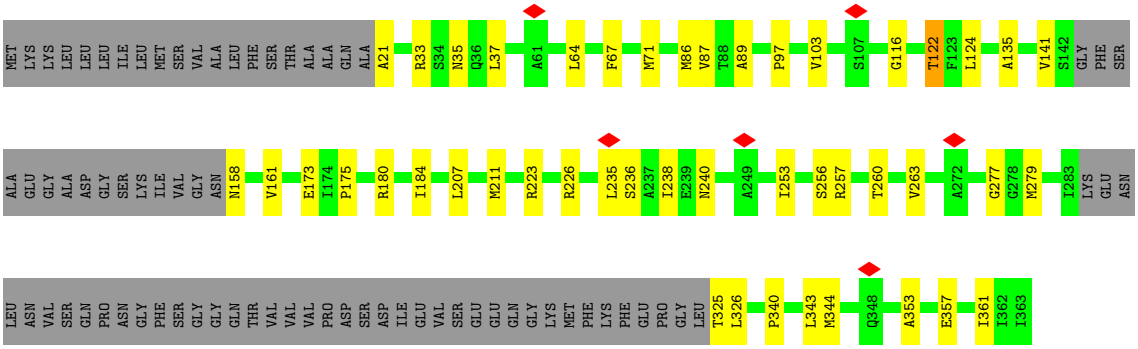
• Molecule 17: FlgI

Chain Ch:



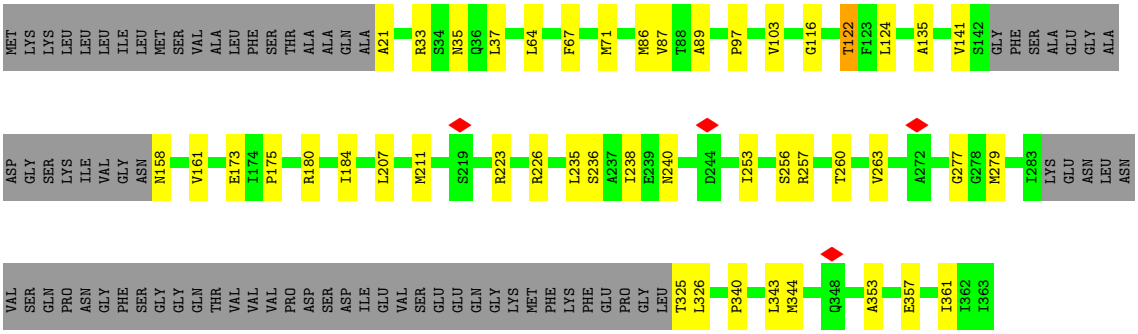
• Molecule 17: FlgI

Chain Cm:



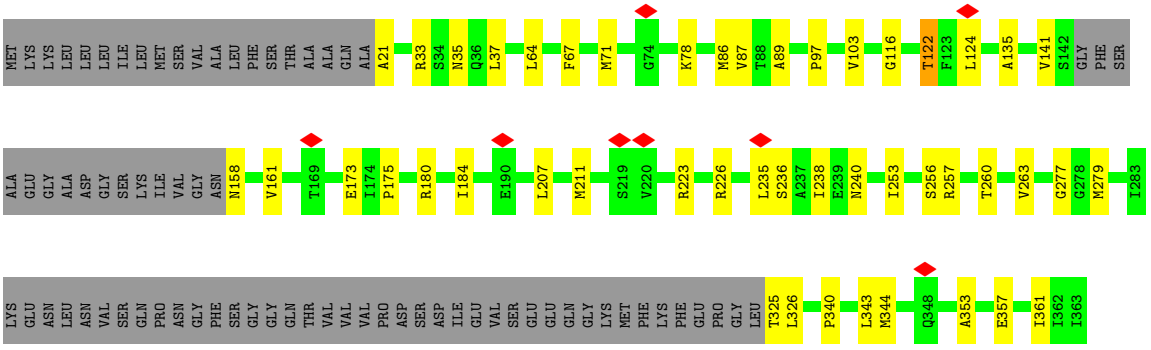
• Molecule 17: FlgI

Chain Cr:



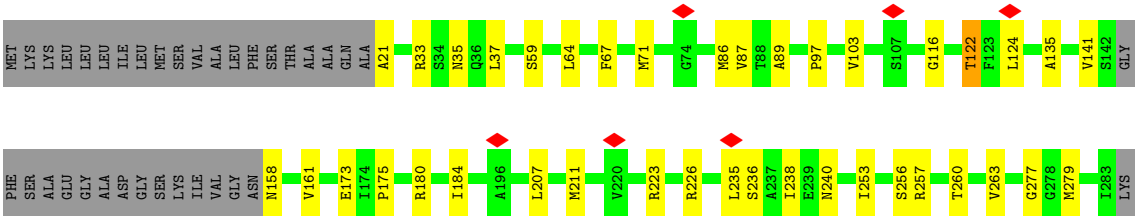
• Molecule 17: FlgI

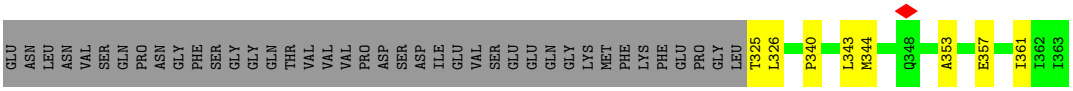
Chain Cw:



• Molecule 17: FlgI

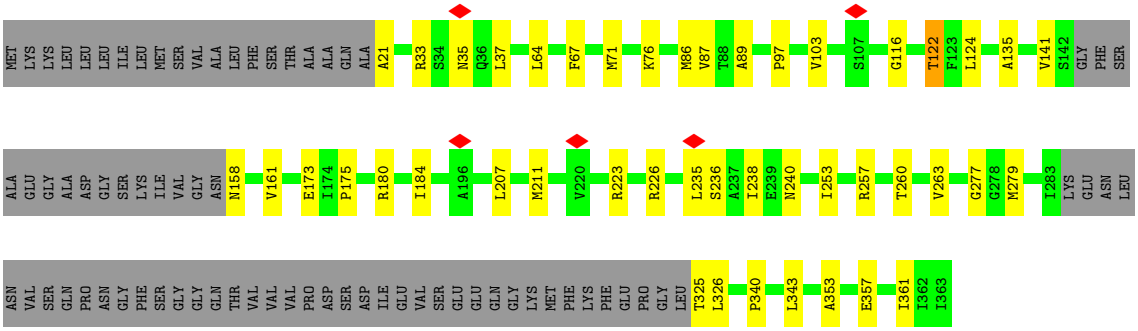
Chain C2:





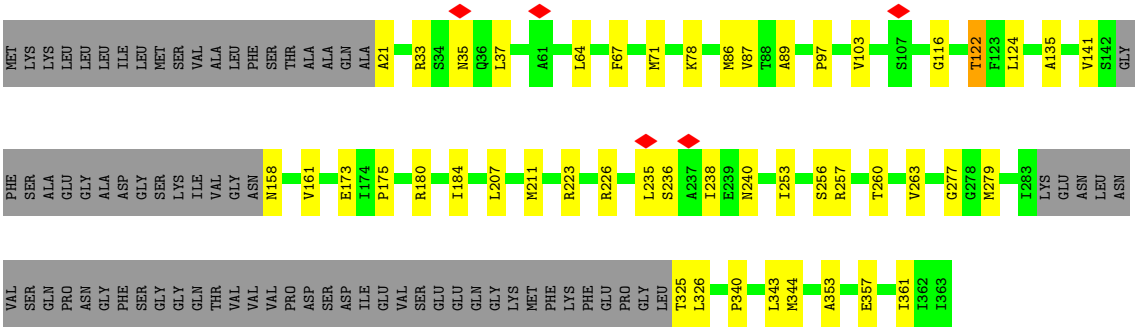
• Molecule 17: FlgI

Chain C7:



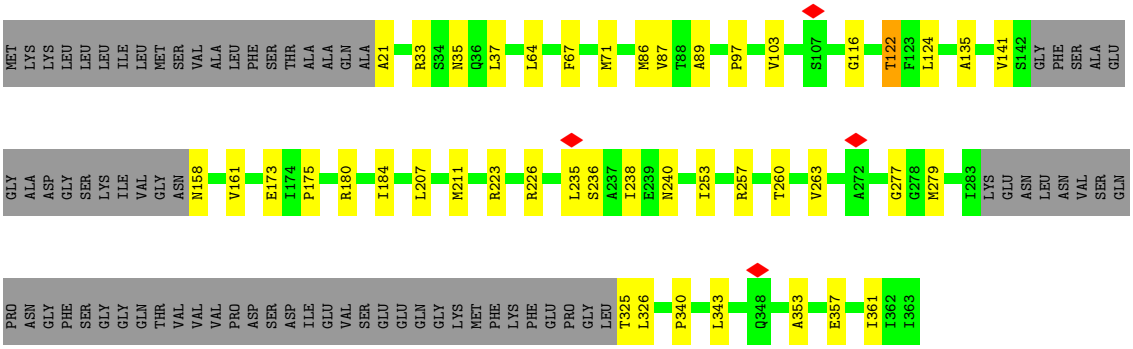
• Molecule 17: FlgI

Chain B5:



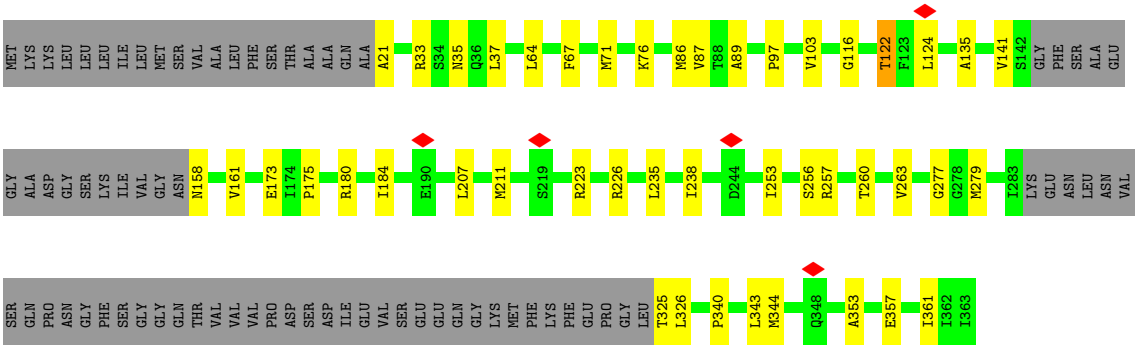
• Molecule 17: FlgI

Chain BB:



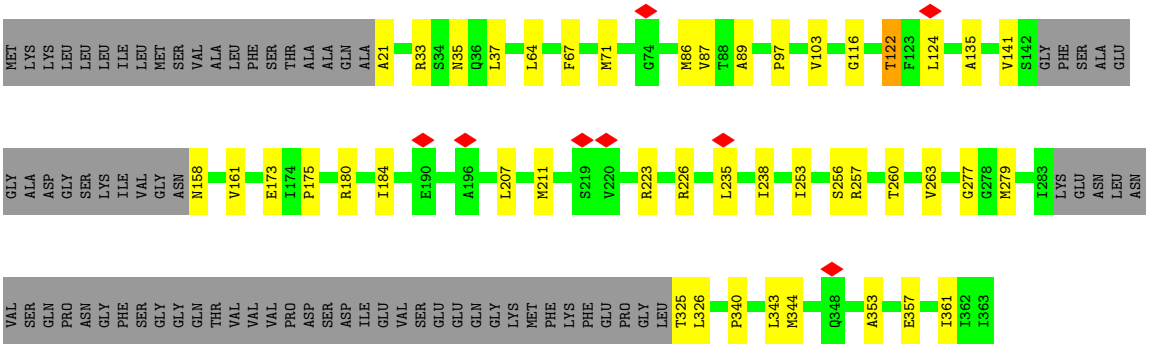
• Molecule 17: FlgI

Chain BG:



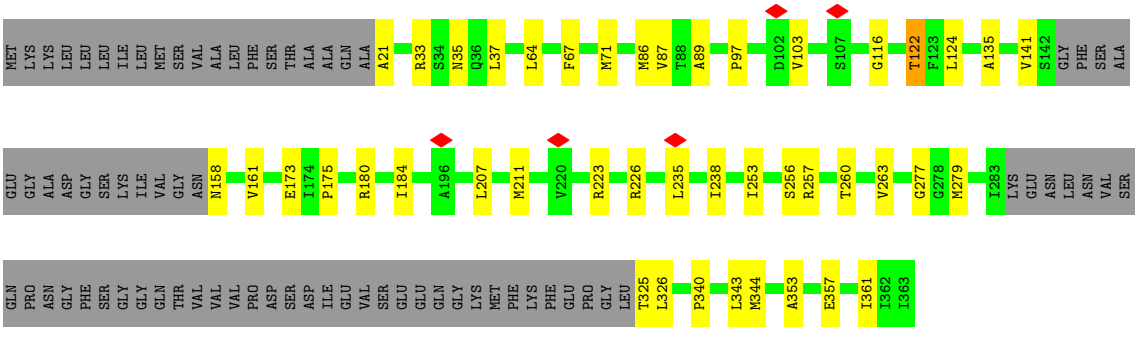
• Molecule 17: FlgI

Chain BL:



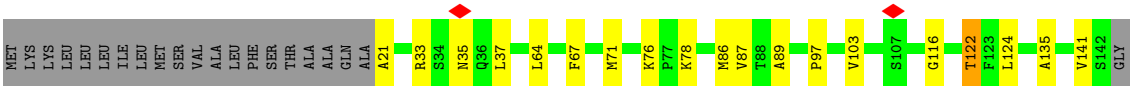
• Molecule 17: FlgI

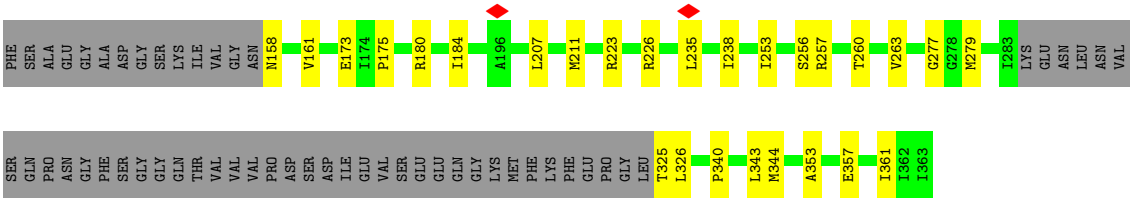
Chain BQ:



• Molecule 17: FlgI

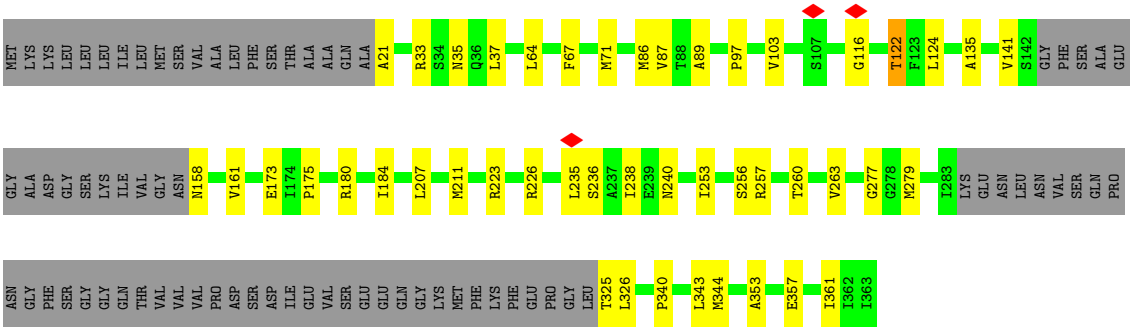
Chain BV:





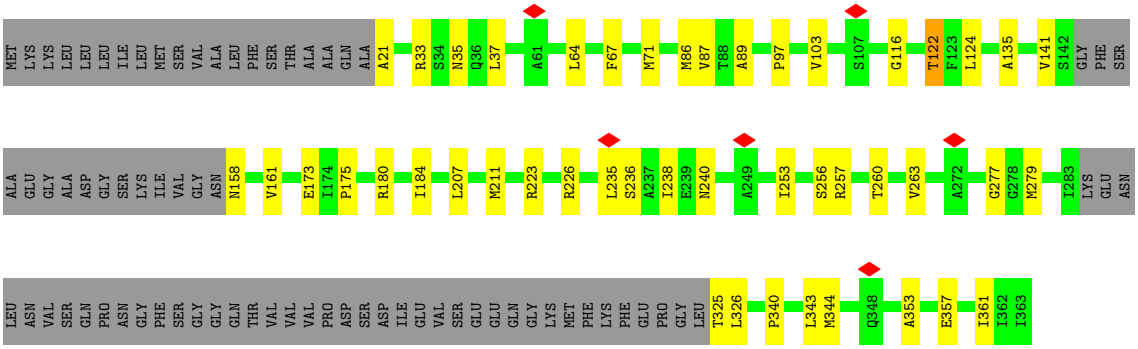
• Molecule 17: FlgI

Chain Ba:



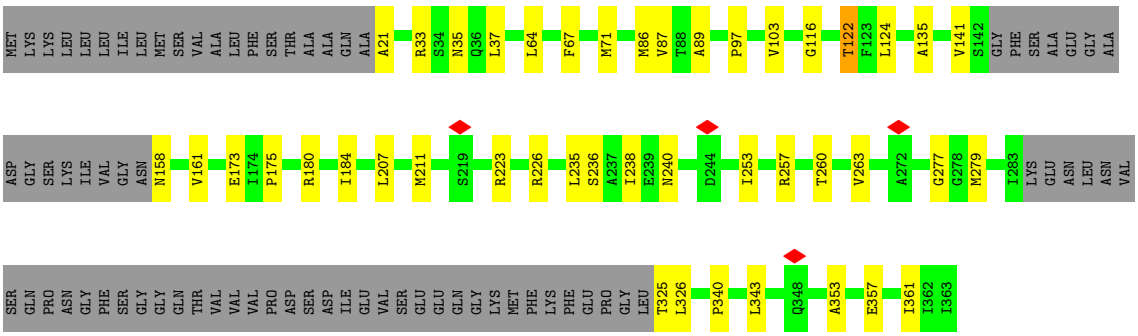
• Molecule 17: FlgI

Chain Bf:



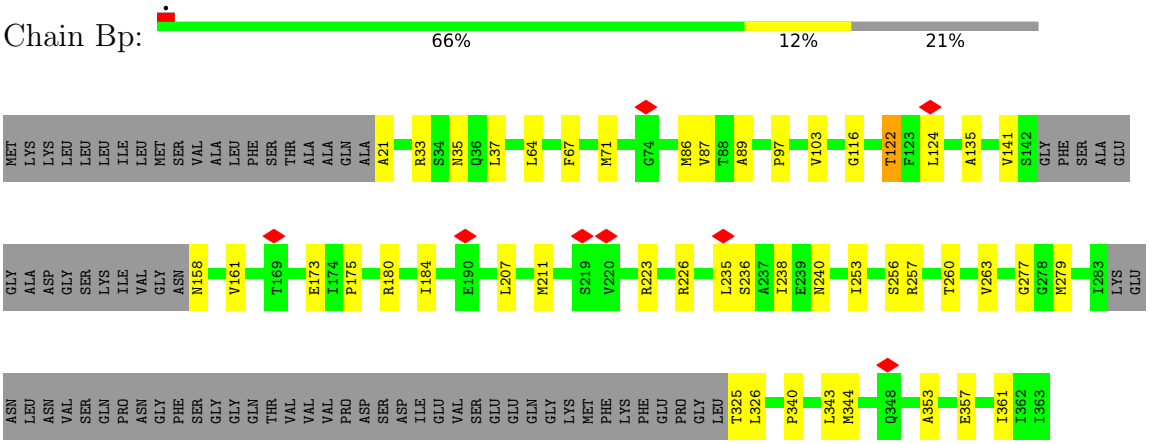
• Molecule 17: FlgI

Chain Bk:



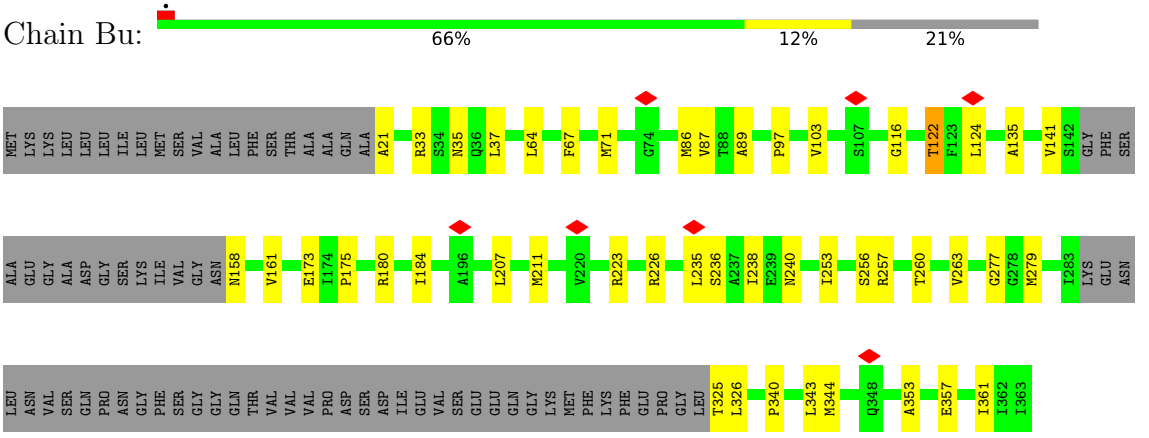
• Molecule 17: FlgI

Chain Bp:



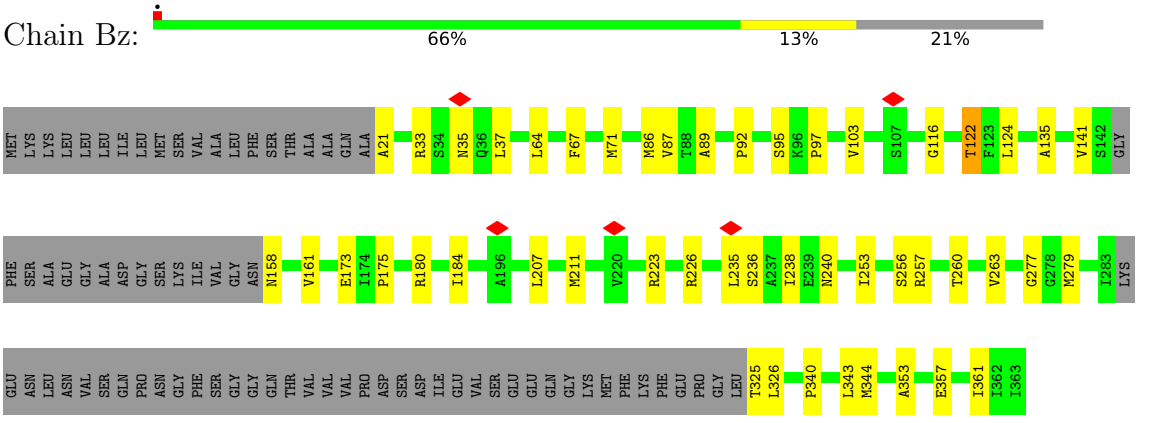
• Molecule 17: FlgI

Chain Bu:



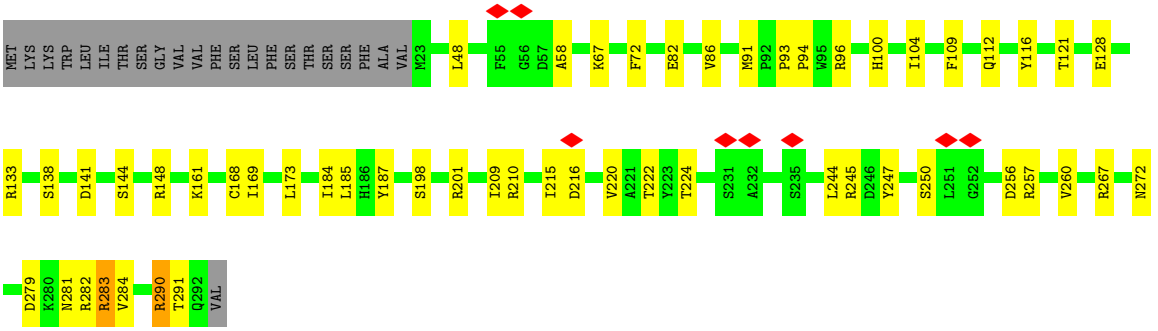
• Molecule 17: FlgI

Chain Bz:



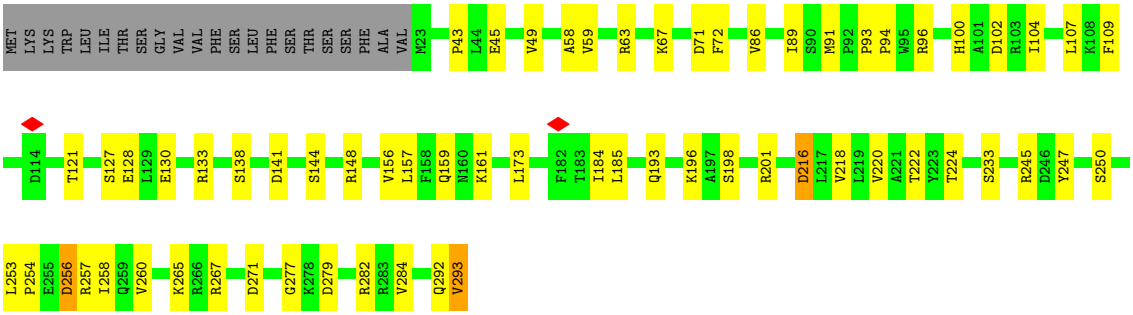
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain CG:



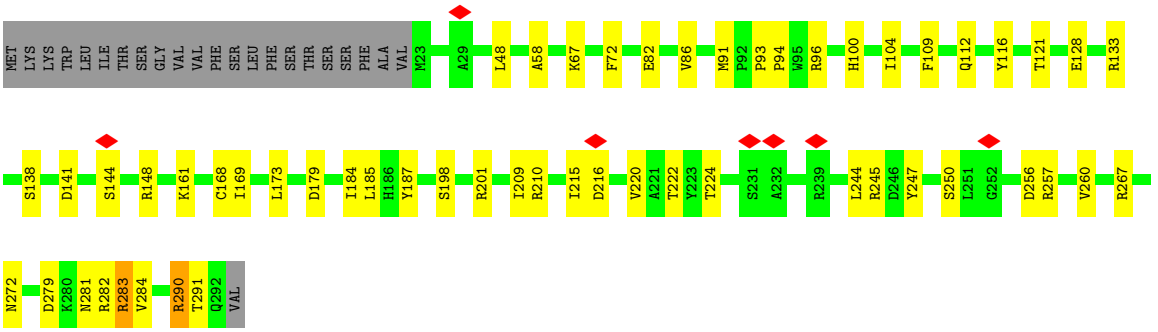
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DA:



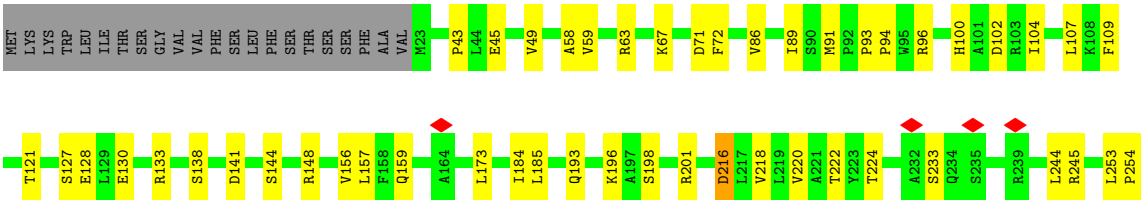
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DD:



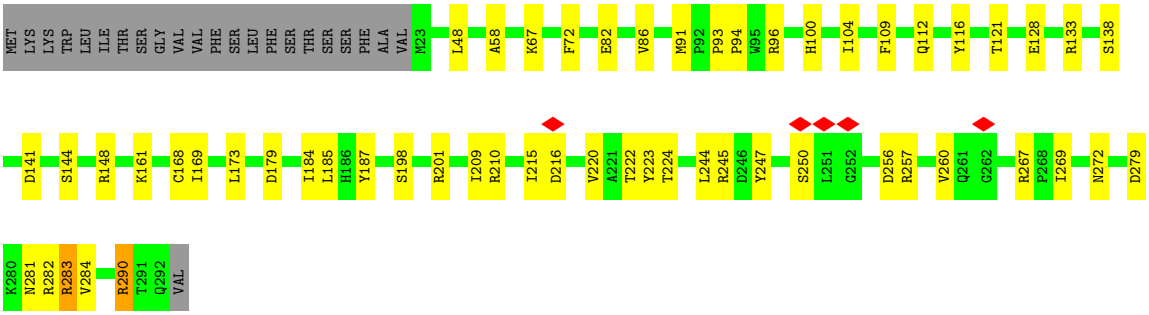
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DE:



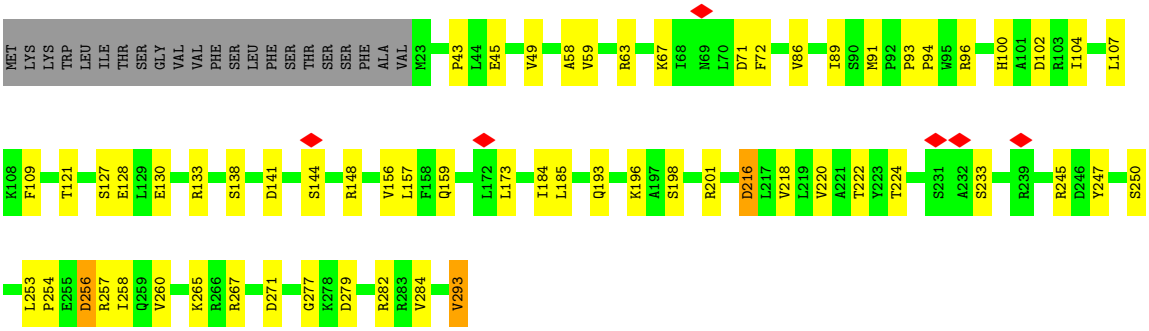
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DH:



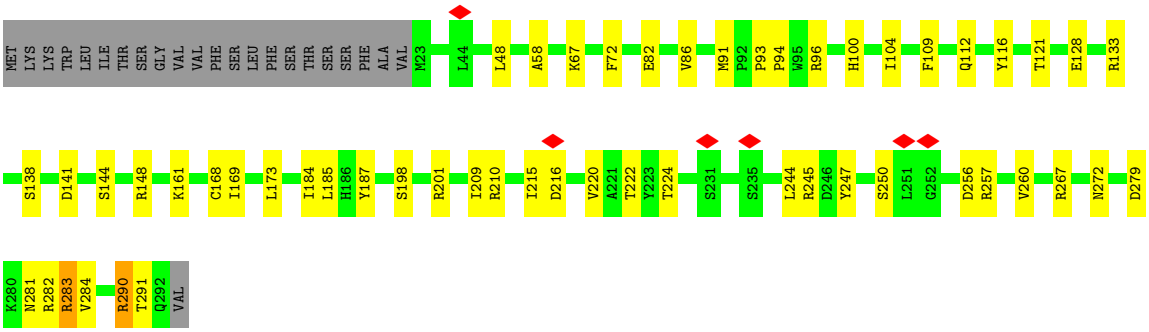
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DI:



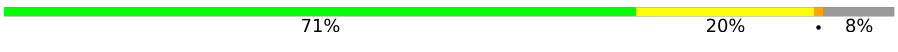
• Molecule 18: Component of sodium-driven polar flagellar motor

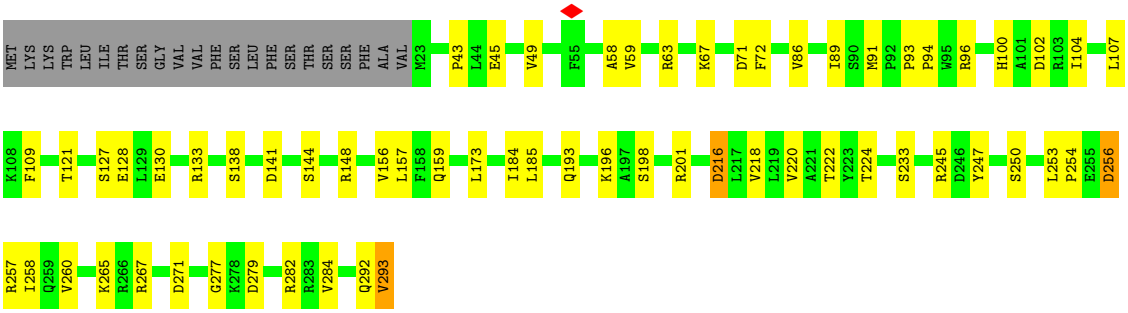
Chain DL:



• Molecule 18: Component of sodium-driven polar flagellar motor

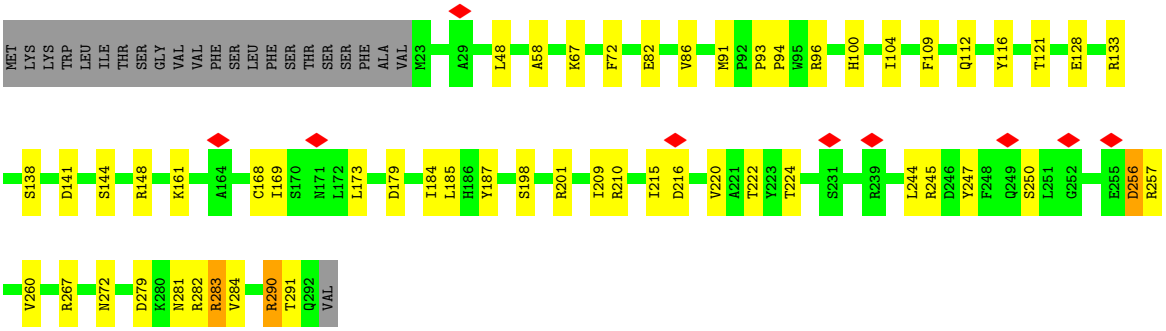
Chain DM:





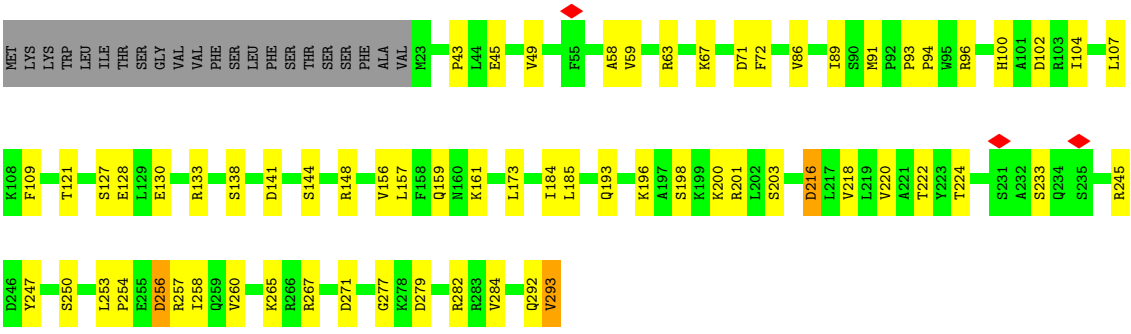
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DP:



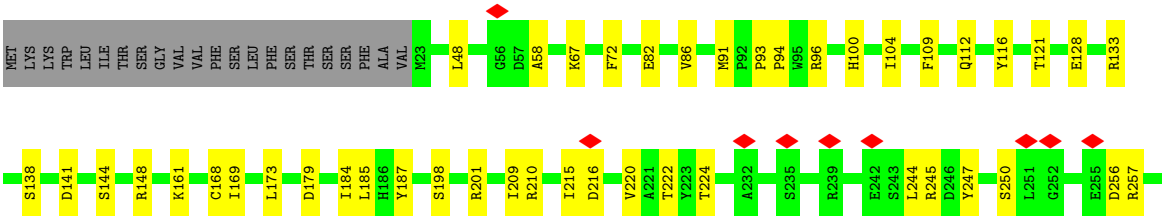
• Molecule 18: Component of sodium-driven polar flagellar motor

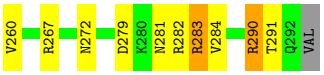
Chain DQ:



• Molecule 18: Component of sodium-driven polar flagellar motor

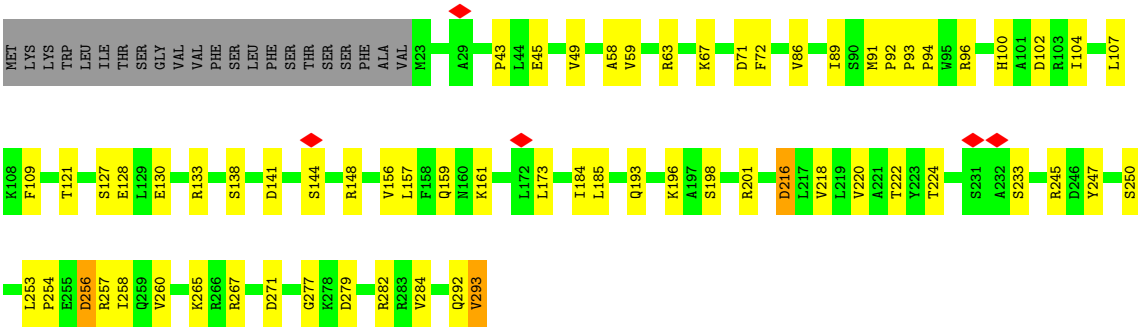
Chain DT:





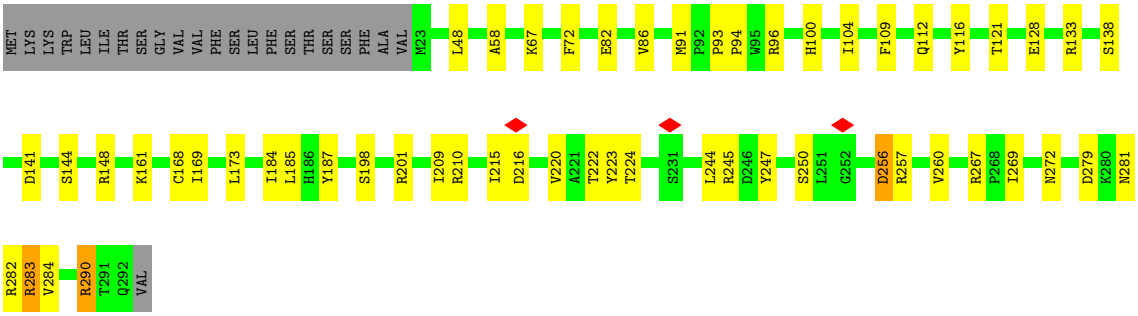
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DU:



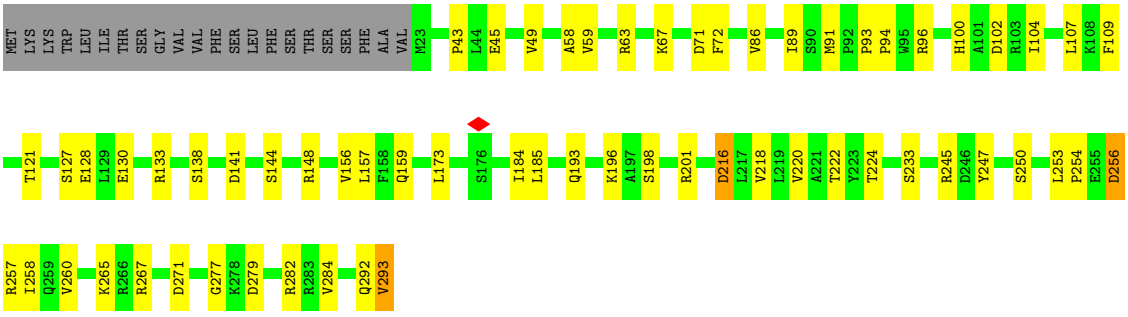
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DX:



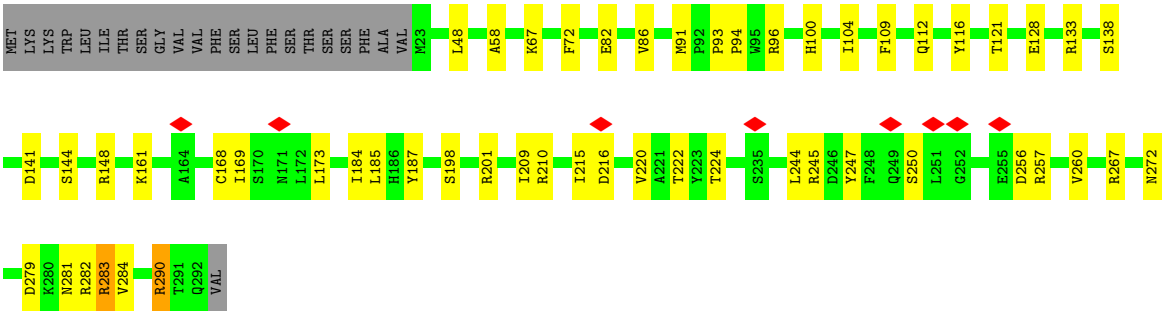
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain DY:



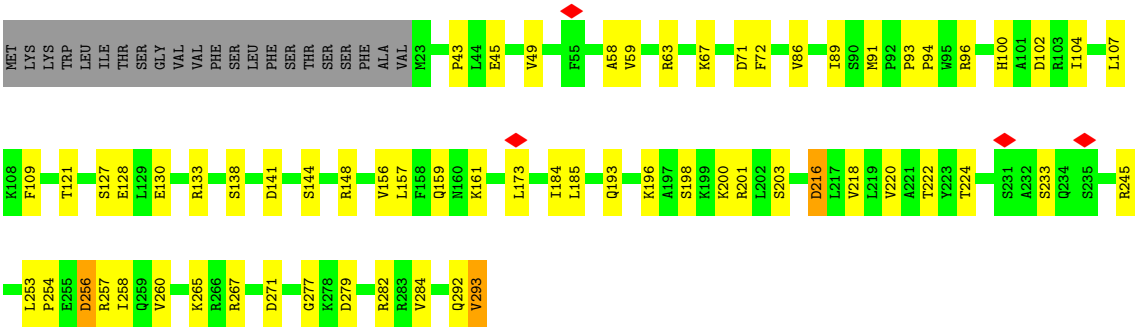
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Db:



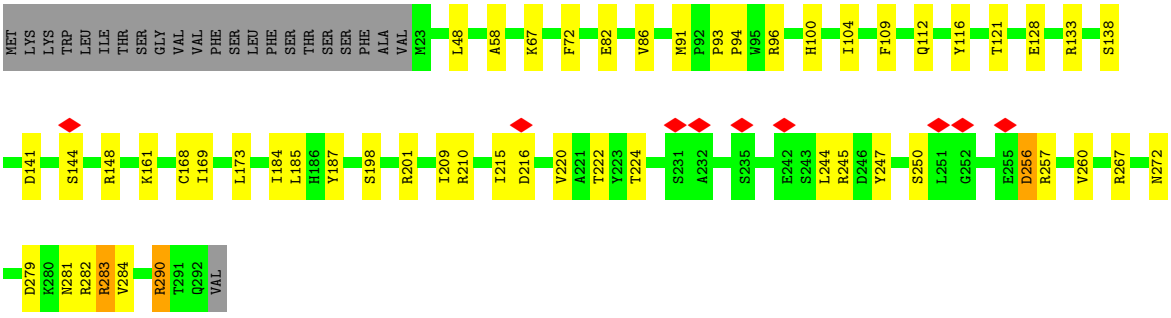
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dc:



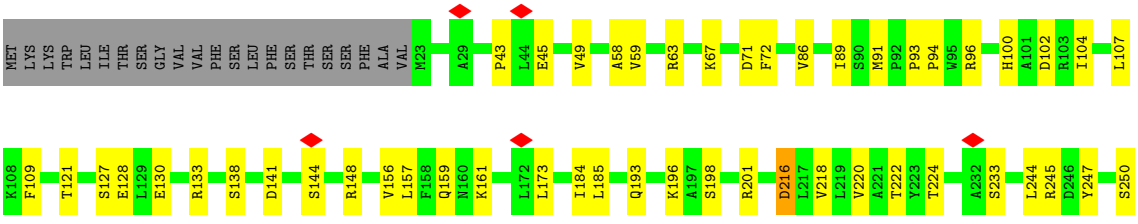
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Df:



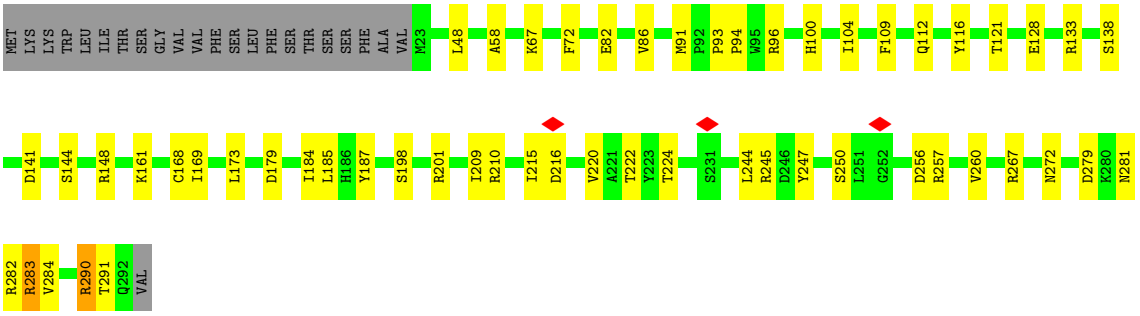
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dg:



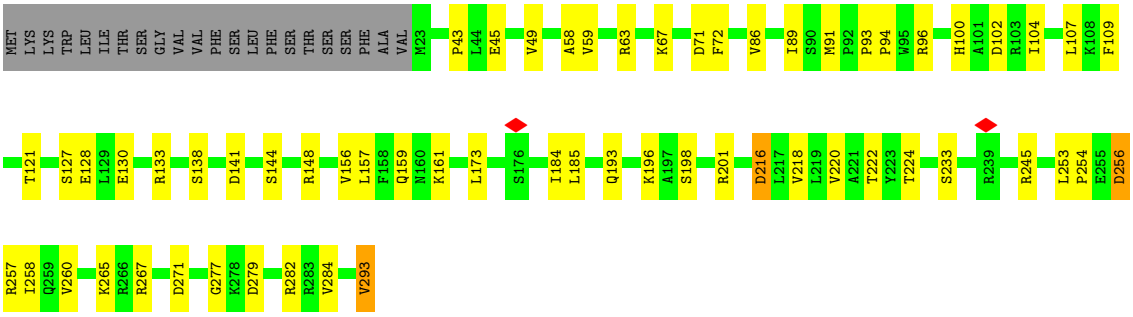
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dj:



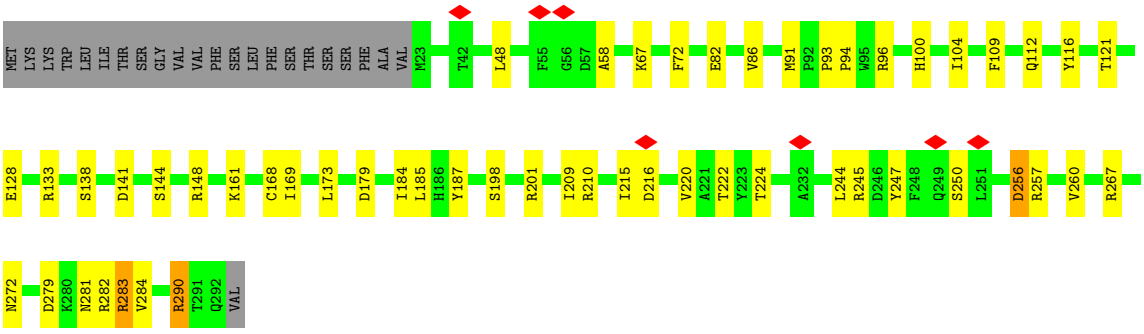
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dk:



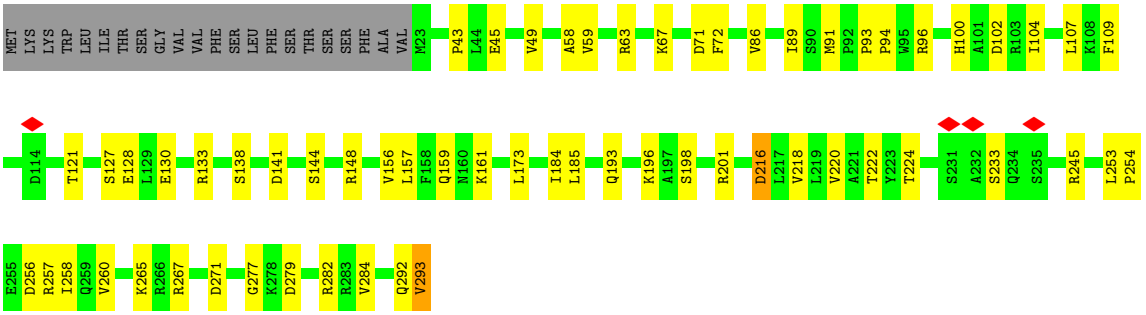
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dn:

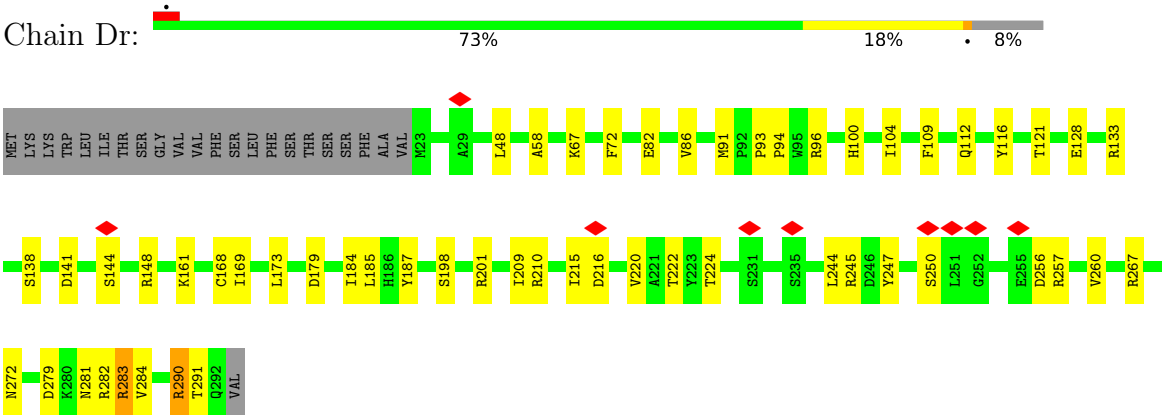


• Molecule 18: Component of sodium-driven polar flagellar motor

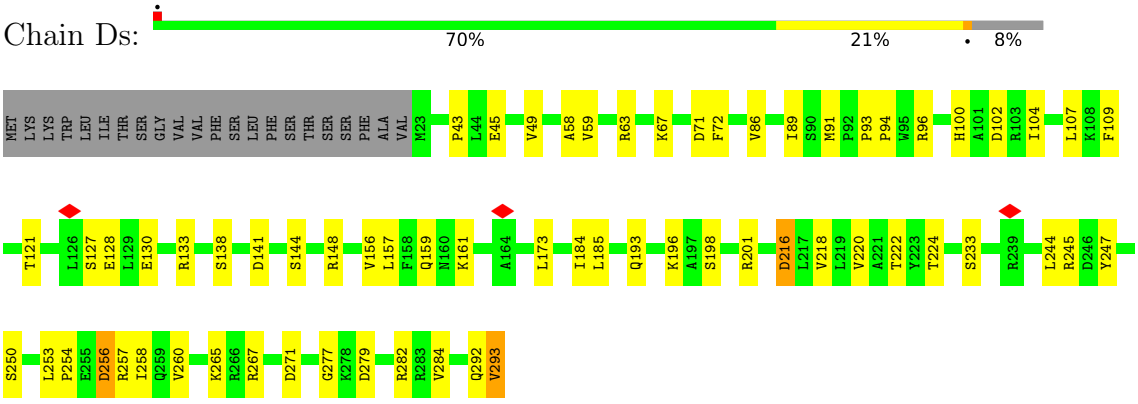
Chain Do:



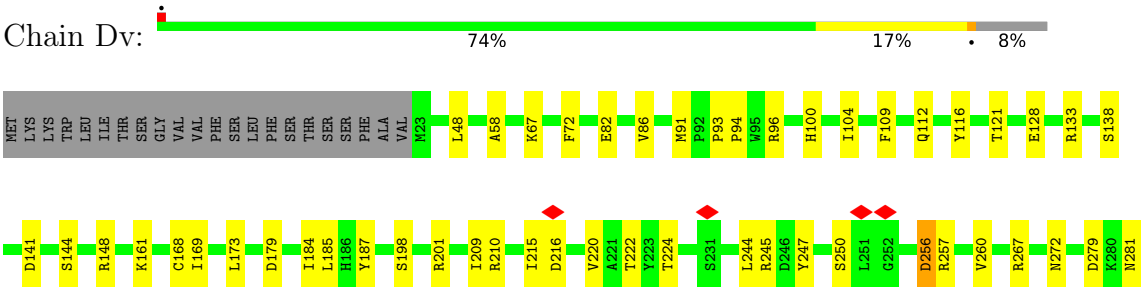
• Molecule 18: Component of sodium-driven polar flagellar motor

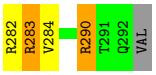


• Molecule 18: Component of sodium-driven polar flagellar motor



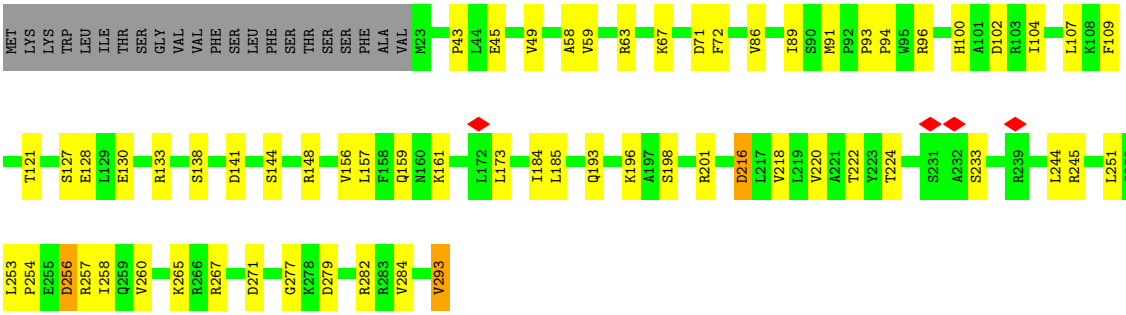
• Molecule 18: Component of sodium-driven polar flagellar motor





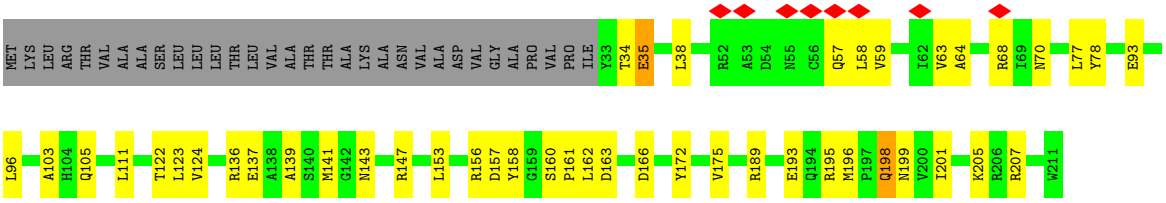
• Molecule 18: Component of sodium-driven polar flagellar motor

Chain Dw:



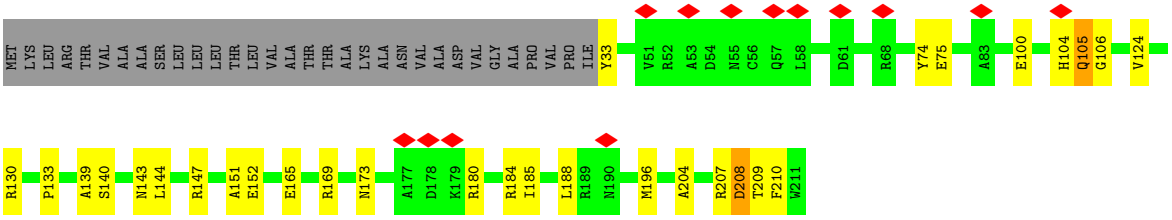
• Molecule 19: Sodium-type flagellar motor component

Chain DB:



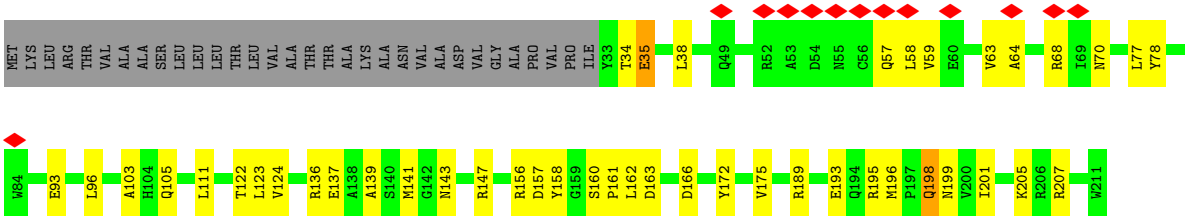
• Molecule 19: Sodium-type flagellar motor component

Chain DC:



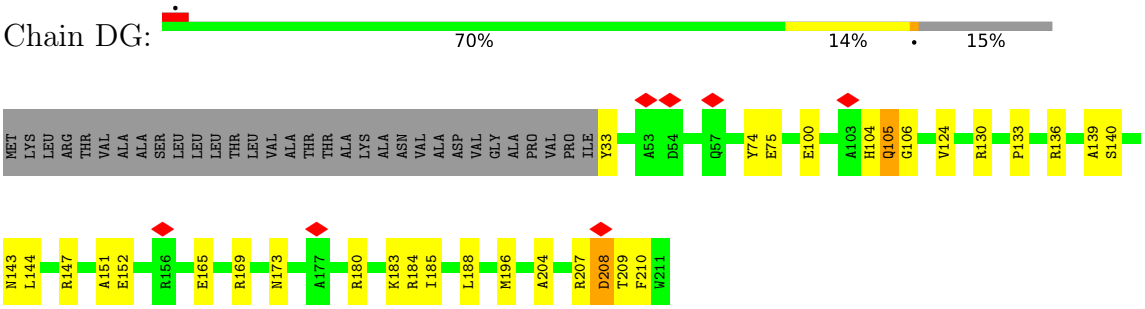
• Molecule 19: Sodium-type flagellar motor component

Chain DF:



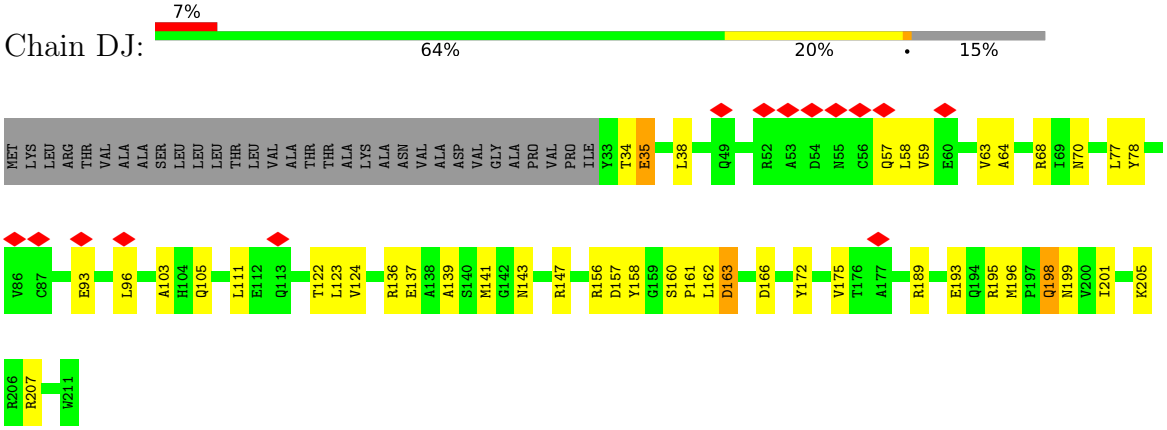
• Molecule 19: Sodium-type flagellar motor component

Chain DG:



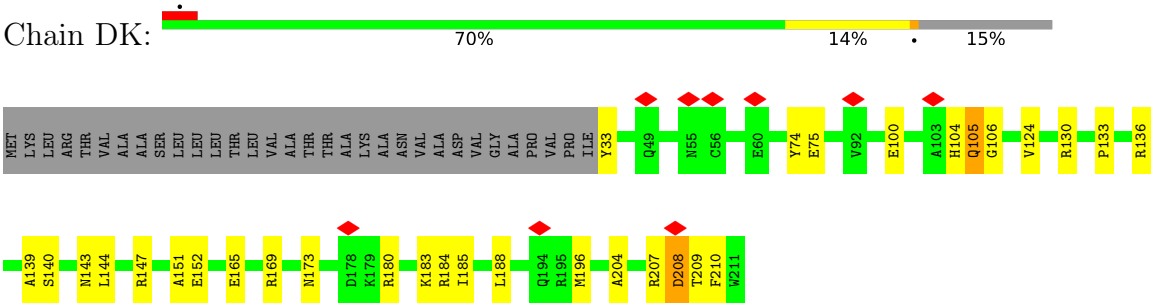
• Molecule 19: Sodium-type flagellar motor component

Chain DJ:



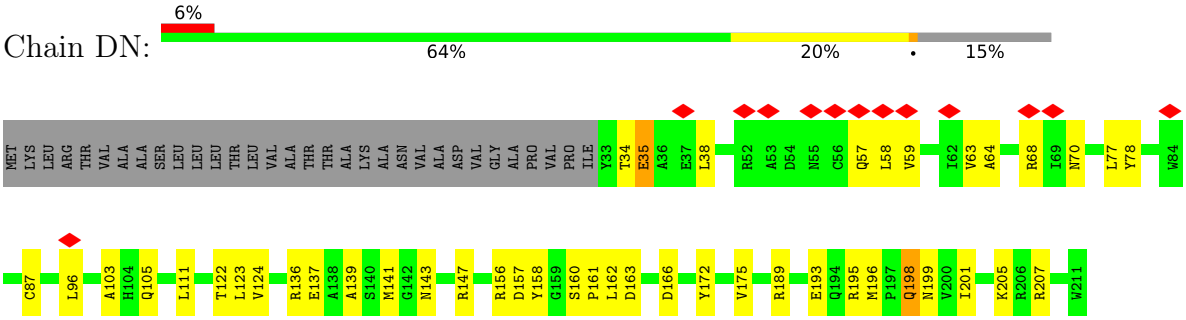
• Molecule 19: Sodium-type flagellar motor component

Chain DK:



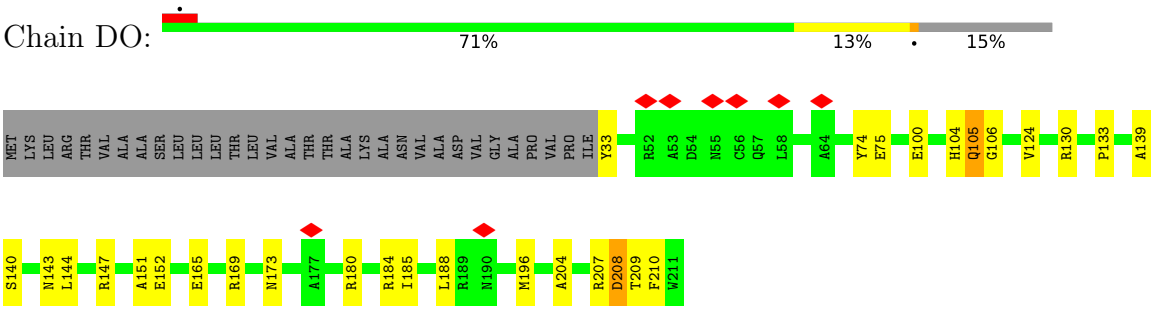
• Molecule 19: Sodium-type flagellar motor component

Chain DN:



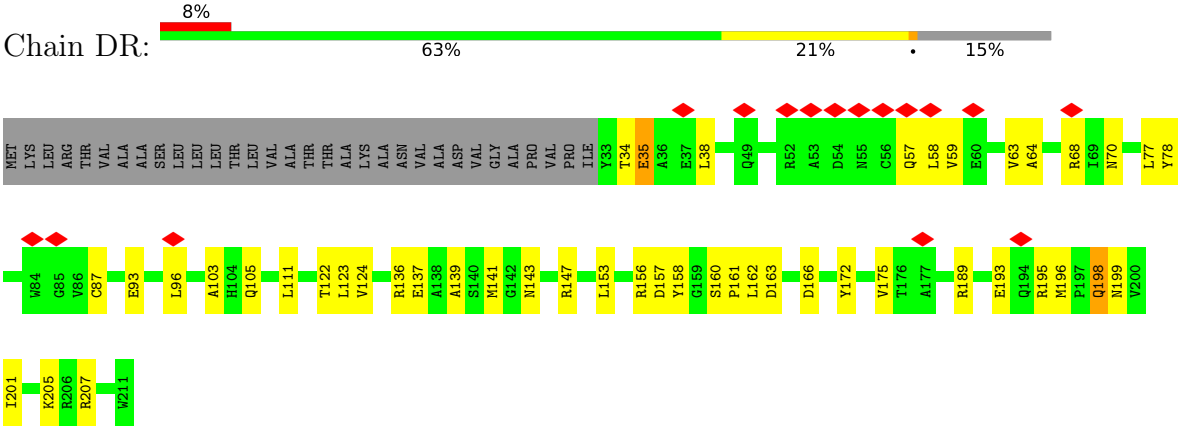
• Molecule 19: Sodium-type flagellar motor component

Chain DO:



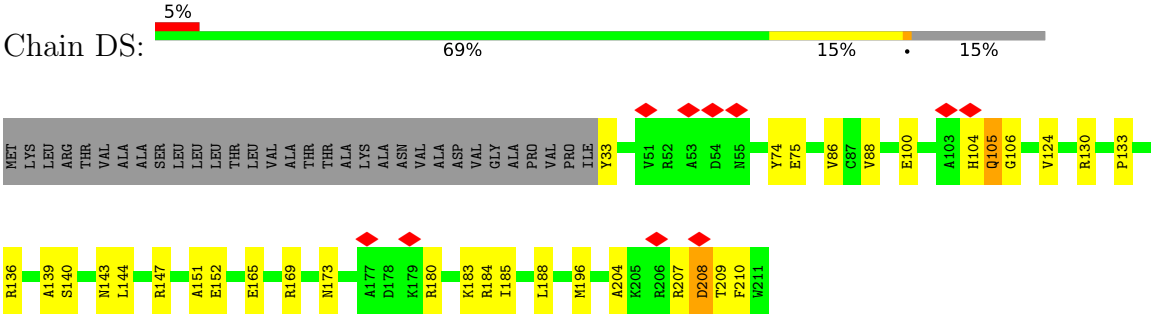
• Molecule 19: Sodium-type flagellar motor component

Chain DR:



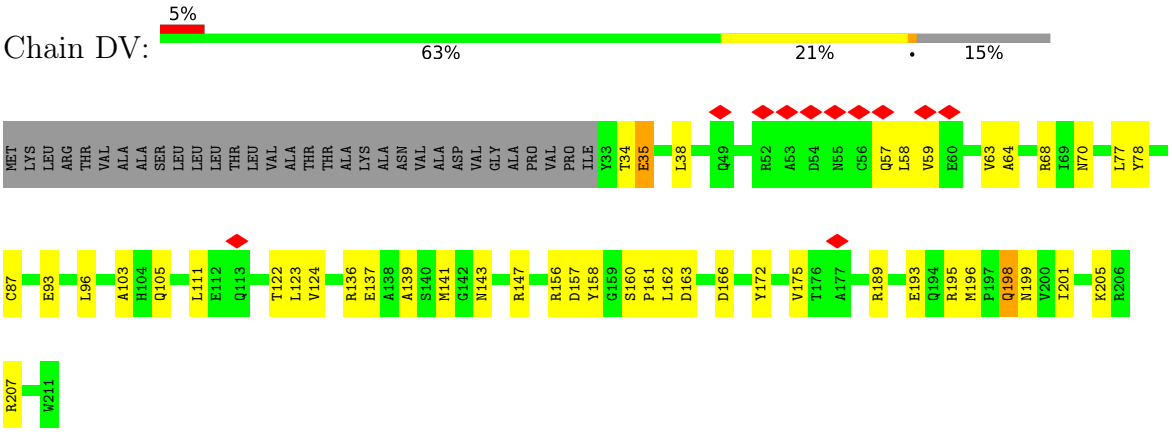
• Molecule 19: Sodium-type flagellar motor component

Chain DS:



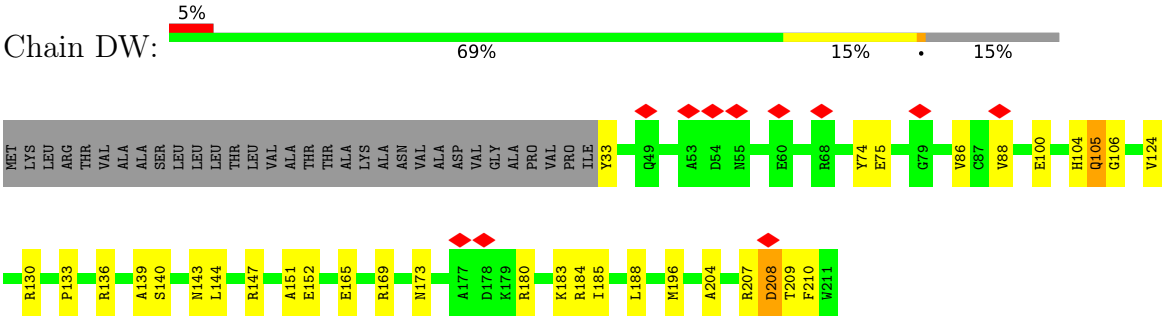
• Molecule 19: Sodium-type flagellar motor component

Chain DV:



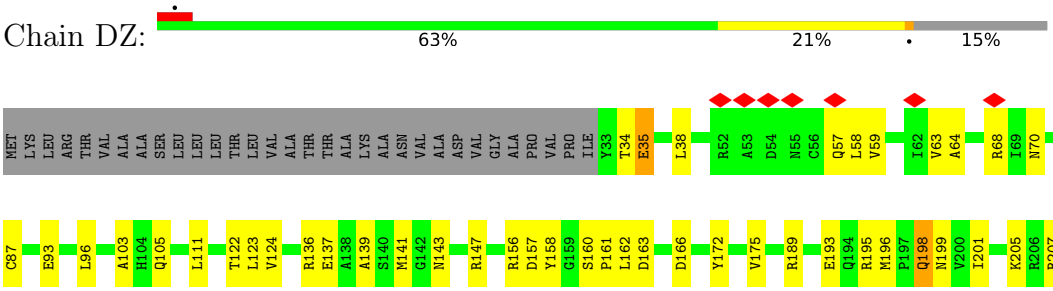
• Molecule 19: Sodium-type flagellar motor component

Chain DW:



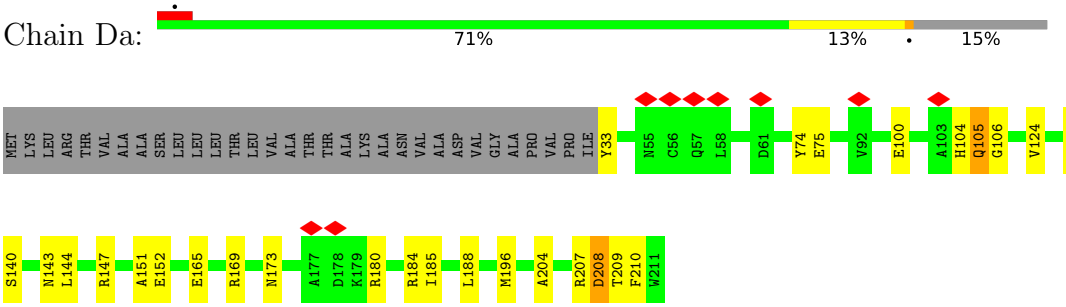
• Molecule 19: Sodium-type flagellar motor component

Chain DZ:



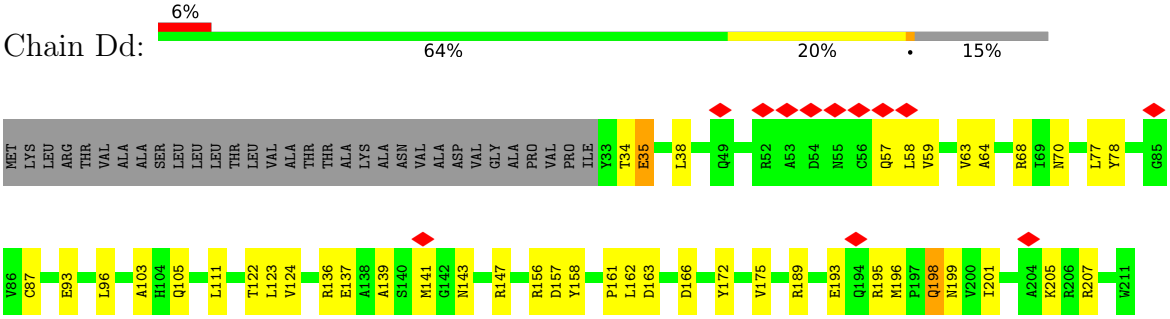
• Molecule 19: Sodium-type flagellar motor component

Chain Da:



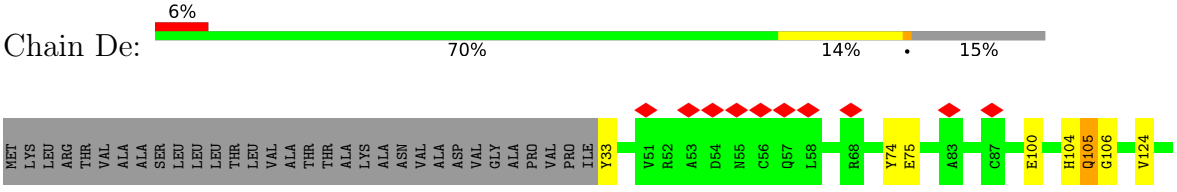
• Molecule 19: Sodium-type flagellar motor component

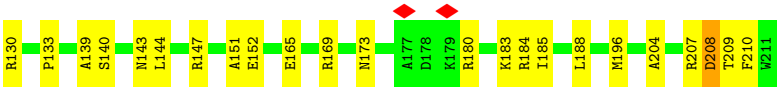
Chain Dd:



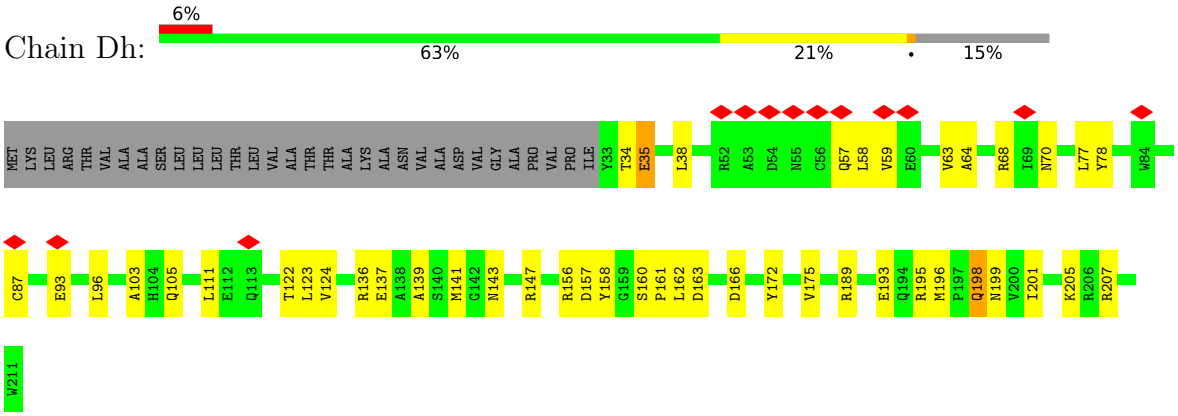
• Molecule 19: Sodium-type flagellar motor component

Chain De:

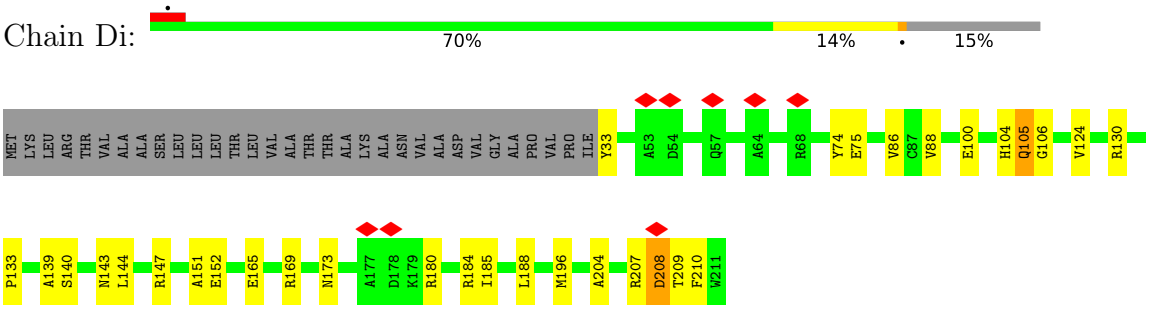




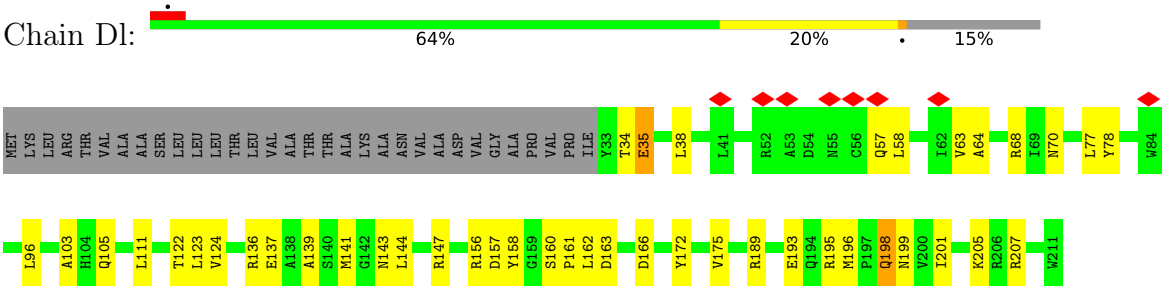
• Molecule 19: Sodium-type flagellar motor component



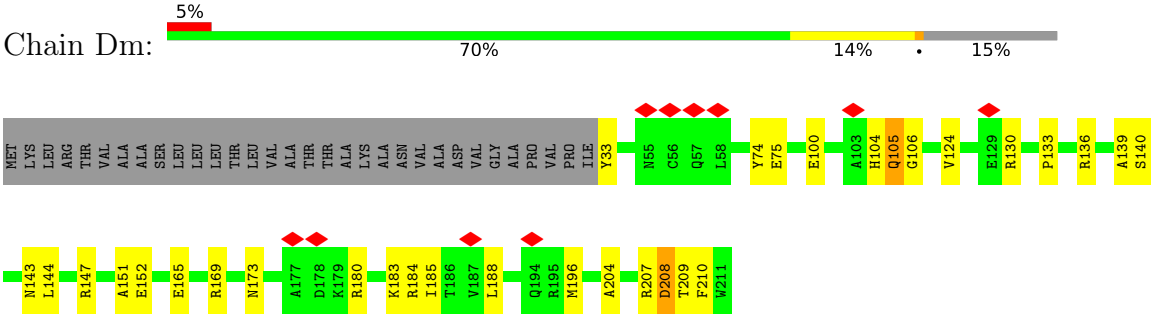
• Molecule 19: Sodium-type flagellar motor component



• Molecule 19: Sodium-type flagellar motor component

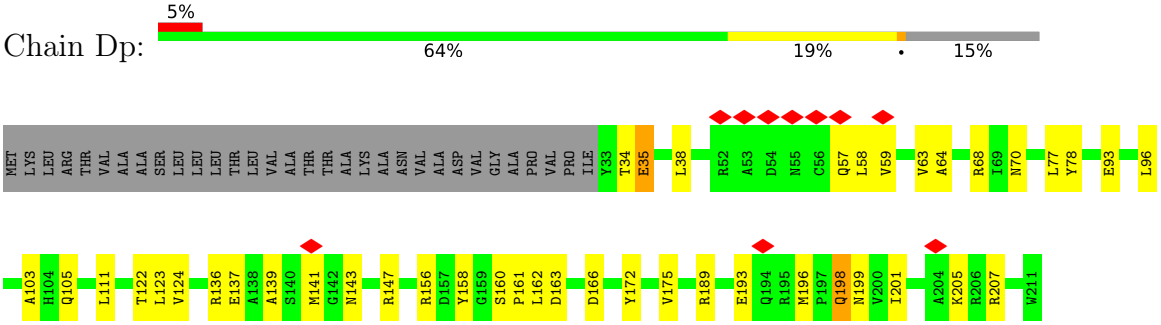


• Molecule 19: Sodium-type flagellar motor component



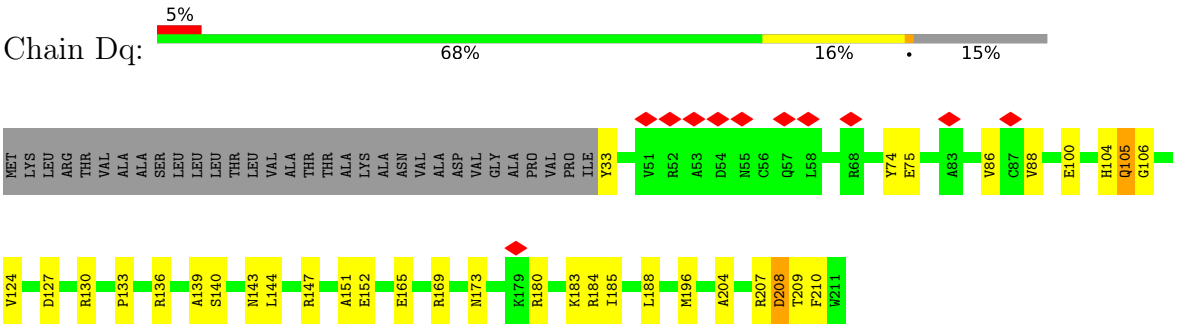
• Molecule 19: Sodium-type flagellar motor component

Chain Dp:



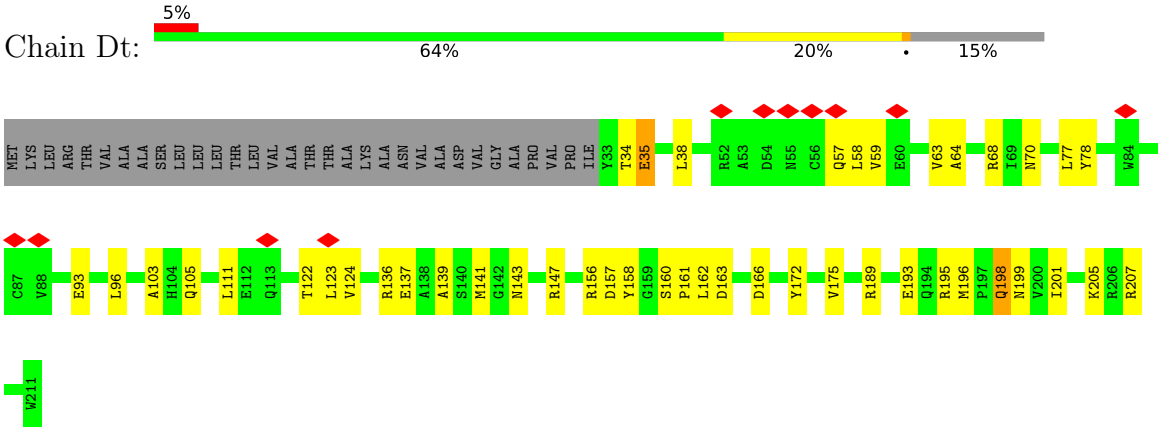
• Molecule 19: Sodium-type flagellar motor component

Chain Dq:



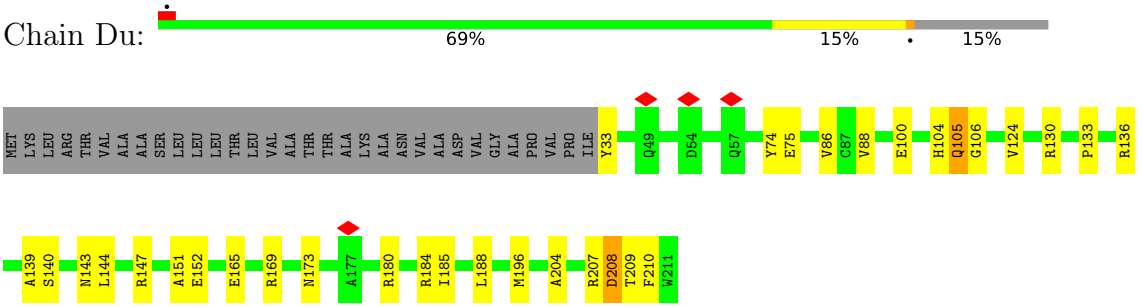
• Molecule 19: Sodium-type flagellar motor component

Chain Dt:



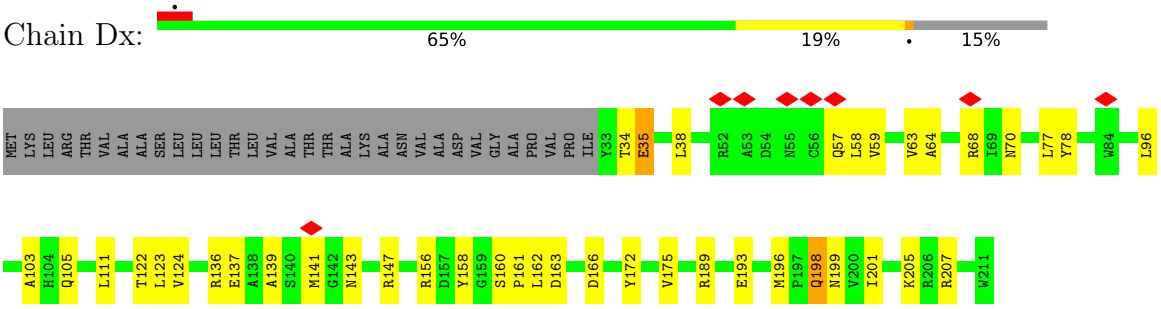
• Molecule 19: Sodium-type flagellar motor component

Chain Du:



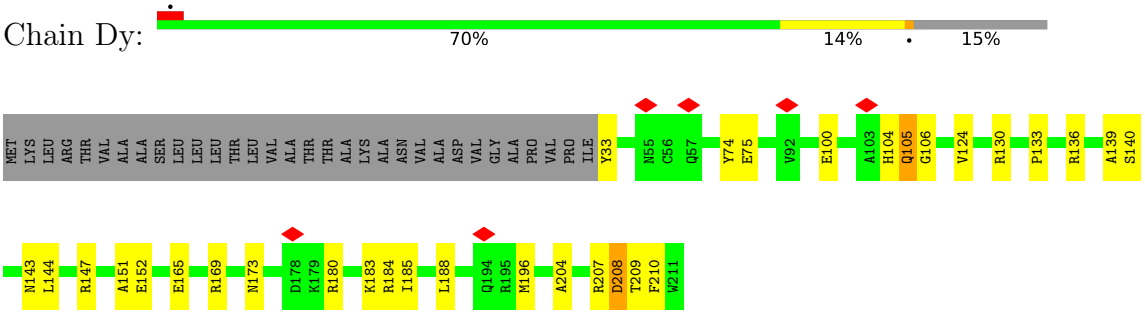
• Molecule 19: Sodium-type flagellar motor component

Chain Dx:



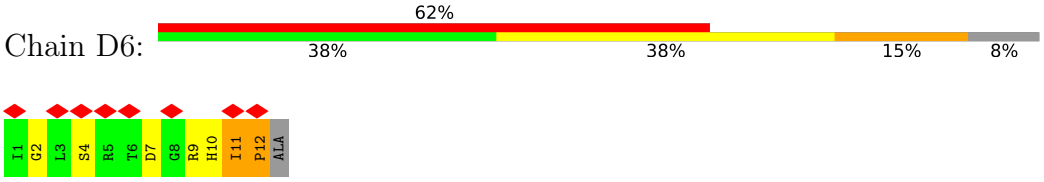
• Molecule 19: Sodium-type flagellar motor component

Chain Dy:



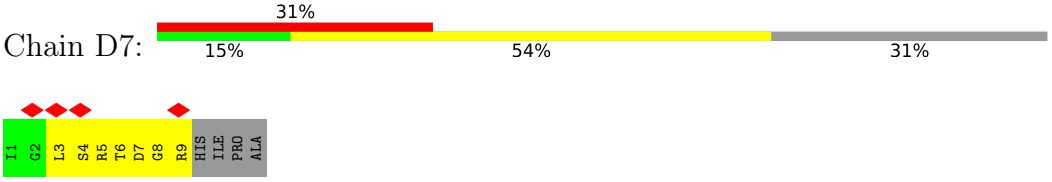
• Molecule 20: FlgB-Dc

Chain D6:



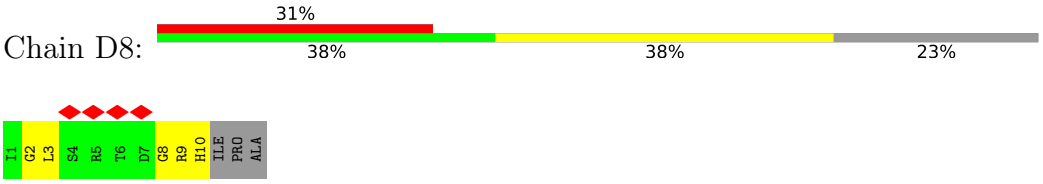
• Molecule 20: FlgB-Dc

Chain D7:



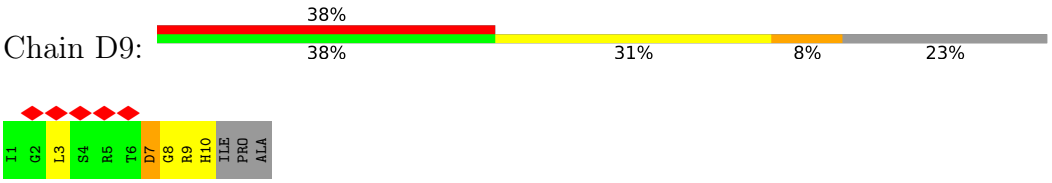
• Molecule 20: FlgB-Dc

Chain D8:



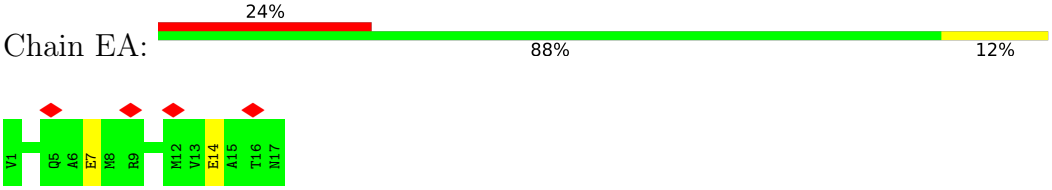
• Molecule 20: FlgB-Dc

Chain D9:



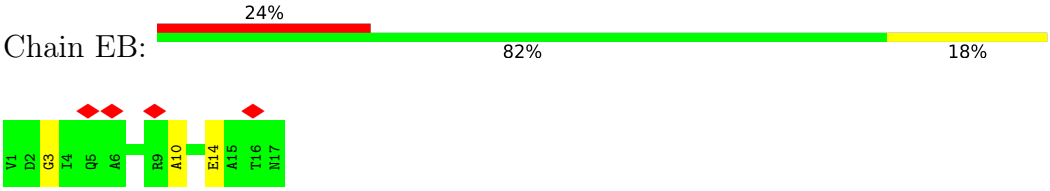
• Molecule 21: FliE-helix 1

Chain EA:



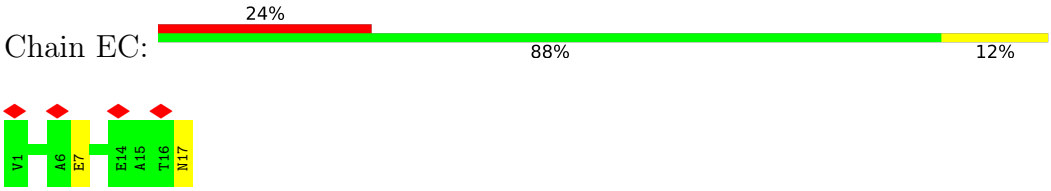
• Molecule 21: FliE-helix 1

Chain EB:



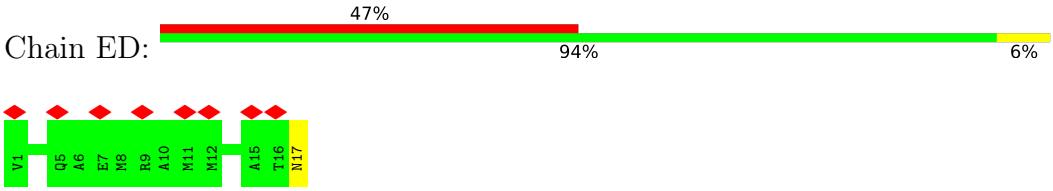
• Molecule 21: FliE-helix 1

Chain EC:



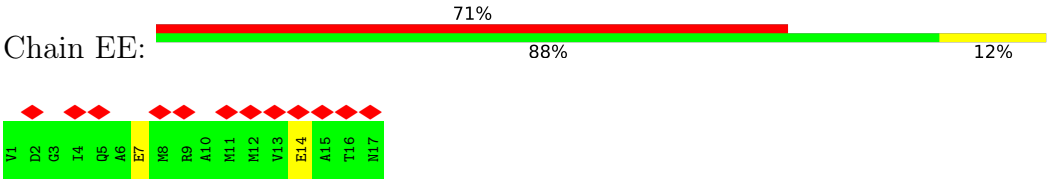
• Molecule 21: FliE-helix 1

Chain ED:



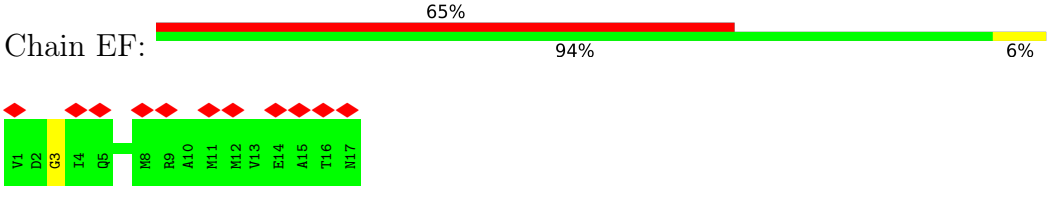
• Molecule 21: FliE-helix 1

Chain EE:



• Molecule 21: FliE-helix 1

Chain EF:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C100	Depositor
Number of particles used	61395	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	105000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	1.146	Depositor
Minimum map value	-1.007	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.036	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	744.0, 744.0, 744.0	wwPDB
Map dimensions	620, 620, 620	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.2, 1.2, 1.2	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PGT, XKP

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	0	0.10	0/1389	0.27	0/1884
1	9	0.10	0/1389	0.28	0/1884
2	1	0.13	0/1628	0.30	0/2209
2	2	0.16	0/1637	0.33	0/2221
2	3	0.10	0/1637	0.26	0/2221
2	y	0.10	0/1637	0.27	0/2221
2	z	0.11	0/1637	0.28	0/2221
3	4	0.12	0/739	0.31	0/1005
3	5	0.16	0/739	0.34	0/1005
3	6	0.28	0/739	0.49	0/1005
3	7	0.15	0/739	0.33	0/1005
4	8	0.09	0/1941	0.25	0/2631
5	A	0.16	0/1985	0.33	0/2697
5	AP	0.15	0/1985	0.34	1/2697 (0.0%)
5	AQ	0.10	0/1985	0.24	0/2697
5	AR	0.14	0/1884	0.28	0/2558
5	AS	0.13	0/1884	0.29	0/2558
5	AT	0.12	0/1892	0.25	0/2568
5	AU	0.11	0/1884	0.25	0/2558
5	AV	0.10	0/1884	0.24	0/2558
5	AW	0.11	0/1985	0.26	0/2697
5	AX	0.11	0/1985	0.26	0/2697
5	AY	0.10	0/1985	0.25	0/2697
5	AZ	0.10	0/1985	0.24	0/2697
5	Aa	0.10	0/1985	0.25	0/2697
5	B	0.14	0/1985	0.32	0/2697
5	C	0.10	0/1985	0.24	0/2697
5	P	0.11	0/1985	0.25	0/2697
5	Q	0.21	1/1985 (0.1%)	0.28	0/2697
5	R	0.11	0/1985	0.25	0/2697
5	S	0.11	0/1985	0.24	0/2697
5	T	0.11	0/1985	0.24	0/2697

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	U	0.22	0/1985	0.37	3/2697 (0.1%)
5	V	0.11	0/1985	0.25	0/2697
5	W	0.24	1/1985 (0.1%)	0.39	0/2697
5	X	0.11	0/1985	0.25	0/2697
5	Y	0.11	0/1985	0.25	0/2697
5	Z	0.11	0/1985	0.25	0/2697
5	a	0.11	0/1985	0.24	0/2697
6	A1	0.27	0/3385	0.47	4/4605 (0.1%)
6	A2	0.26	0/3385	0.45	4/4605 (0.1%)
6	A3	0.23	0/3385	0.41	2/4605 (0.0%)
6	Ab	0.23	0/3385	0.33	0/4605
6	Ac	0.22	0/3385	0.32	0/4605
6	Ad	0.23	0/3385	0.33	0/4605
6	Ae	0.22	0/3385	0.32	0/4605
6	Af	0.22	0/3385	0.32	0/4605
6	Ag	0.22	0/3385	0.33	0/4605
6	Ah	0.22	0/3385	0.32	0/4605
6	Ai	0.21	0/3385	0.32	0/4605
6	Aj	0.22	0/3385	0.32	0/4605
6	Ak	0.21	0/3385	0.31	0/4605
6	Al	0.21	0/3385	0.31	0/4605
6	Am	0.22	0/3385	0.32	0/4605
6	An	0.20	0/3385	0.32	0/4605
6	Ao	0.27	0/3385	0.41	1/4605 (0.0%)
6	Ap	0.27	0/3385	0.40	1/4605 (0.0%)
6	Aq	0.26	0/3385	0.43	2/4605 (0.0%)
6	Ar	0.27	0/3385	0.41	0/4605
6	As	0.26	0/3385	0.42	3/4605 (0.1%)
6	At	0.28	1/3385 (0.0%)	0.44	2/4605 (0.0%)
6	Au	0.29	0/3385	0.44	1/4605 (0.0%)
6	Av	0.29	0/3385	0.45	3/4605 (0.1%)
6	Aw	0.27	0/3385	0.42	2/4605 (0.0%)
6	Ax	0.26	0/3385	0.43	3/4605 (0.1%)
6	Ay	0.26	0/3385	0.41	1/4605 (0.0%)
6	Az	0.28	0/3385	0.46	3/4605 (0.1%)
6	D	0.23	0/3385	0.34	0/4605
6	E	0.24	0/3385	0.34	0/4605
6	F	0.23	0/3385	0.34	0/4605
6	G	0.23	0/3385	0.34	0/4605
6	H	0.23	0/3385	0.33	0/4605
6	I	0.23	0/3385	0.33	0/4605
6	J	0.23	0/3385	0.33	0/4605
6	K	0.23	0/3385	0.33	0/4605

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
6	L	0.23	0/3385	0.33	0/4605
6	M	0.23	0/3385	0.33	0/4605
6	N	0.23	0/3385	0.33	0/4605
6	O	0.22	0/3385	0.33	0/4605
7	AA	0.35	0/137	0.45	0/188
7	AB	0.29	0/137	0.43	0/188
7	AC	0.14	0/141	0.31	0/193
7	AD	0.31	0/137	0.46	0/188
7	AE	0.12	0/137	0.28	0/188
7	AF	0.92	0/161	1.23	0/221
7	AG	0.16	0/75	0.32	0/103
7	AH	0.20	0/75	0.42	0/103
7	AI	0.95	0/75	1.34	0/103
7	AJ	0.37	0/166	0.57	0/228
7	AK	0.32	0/172	0.69	0/237
7	AL	0.39	0/223	0.61	0/304
7	AM	0.19	0/227	0.44	0/309
7	AN	0.23	0/227	0.49	0/309
7	AO	0.16	0/223	0.40	0/304
7	D1	0.16	0/1182	0.27	0/1588
7	D2	0.16	0/1182	0.27	0/1588
7	D3	0.16	0/1182	0.27	0/1588
7	D4	0.16	0/1182	0.27	0/1588
7	D5	0.16	0/1182	0.27	0/1588
7	Dz	0.16	0/1182	0.27	0/1588
7	E1	0.16	0/1182	0.27	0/1588
7	E2	0.16	0/1182	0.27	0/1588
7	E3	0.16	0/1182	0.27	0/1588
7	E4	0.16	0/1182	0.27	0/1588
7	E5	0.16	0/1182	0.27	0/1588
7	EG	0.16	0/1182	0.27	0/1588
7	EH	0.16	0/1182	0.27	0/1588
7	EI	0.16	0/1182	0.27	0/1588
7	EJ	0.16	0/1182	0.27	0/1588
7	EK	0.16	0/1182	0.27	0/1588
7	EL	0.16	0/1182	0.27	0/1588
7	EM	0.17	0/1182	0.27	0/1588
7	EN	0.16	0/1182	0.27	0/1588
7	EO	0.16	0/1182	0.27	0/1588
7	EP	0.16	0/1182	0.27	0/1588
7	EQ	0.17	0/1182	0.27	0/1588
7	ER	0.16	0/1182	0.27	0/1588
7	ES	0.16	0/1182	0.27	0/1588

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
7	ET	0.16	0/1182	0.27	0/1588
7	EU	0.16	0/1182	0.27	0/1588
7	EV	0.16	0/1182	0.27	0/1588
7	EW	0.16	0/1182	0.27	0/1588
7	EX	0.33	0/888	0.56	0/1192
7	EY	0.30	0/888	0.44	0/1192
7	EZ	0.21	0/888	0.38	0/1192
7	Ea	0.22	0/888	0.40	0/1192
7	Eb	0.21	0/888	0.41	0/1192
7	Ec	0.23	0/844	0.41	0/1131
7	Ed	0.29	0/888	0.48	0/1192
7	Ee	0.29	0/888	0.44	0/1192
7	Ef	0.21	0/888	0.40	0/1192
7	Eg	0.22	0/727	0.40	0/974
7	Eh	0.26	0/810	0.44	0/1087
7	Ei	0.27	0/810	0.44	0/1087
7	Ej	0.17	0/810	0.38	0/1087
7	Ek	0.14	0/661	0.31	0/884
7	El	0.14	0/706	0.35	0/946
7	Em	0.15	0/697	0.34	0/934
7	En	0.14	0/685	0.33	0/917
7	Eo	0.16	0/706	0.35	0/946
7	Ep	0.22	0/888	0.38	0/1192
7	Eq	0.25	0/888	0.45	0/1192
7	Er	0.20	0/888	0.35	0/1192
7	Es	0.20	0/805	0.38	0/1078
7	Et	0.20	0/888	0.40	0/1192
7	Eu	0.16	0/1182	0.27	0/1588
7	Ev	0.16	0/1182	0.27	0/1588
7	Ew	0.16	0/1182	0.27	0/1588
7	Ex	0.16	0/1182	0.27	0/1588
7	Ey	0.16	0/1182	0.27	0/1588
7	Ez	0.16	0/1182	0.27	0/1588
8	b	0.22	0/856	0.36	0/1151
8	c	0.22	0/846	0.31	0/1138
8	d	0.24	0/856	0.31	0/1151
8	e	0.19	0/848	0.31	0/1140
8	f	0.22	0/848	0.35	0/1140
9	g	0.11	0/996	0.26	0/1348
9	h	0.10	0/996	0.26	0/1348
9	i	0.30	0/996	0.46	0/1348
9	j	0.10	0/996	0.24	0/1348
9	k	0.11	0/996	0.28	0/1348

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	l	0.13	0/996	0.30	0/1348
10	m	0.11	0/1905	0.26	0/2572
10	n	0.13	0/1905	0.26	0/2572
10	o	0.10	0/1905	0.26	0/2572
10	p	0.17	0/1905	0.36	1/2572 (0.0%)
10	q	0.10	0/1905	0.25	0/2572
11	r	0.32	0/564	0.43	0/759
11	s	0.08	0/609	0.20	0/819
11	t	0.07	0/609	0.17	0/819
11	u	0.07	0/564	0.16	0/759
11	v	0.07	0/564	0.18	0/759
11	w	0.09	0/313	0.19	0/420
12	x	0.08	0/562	0.19	0/760
13	A8	0.18	0/2818	0.28	0/3814
13	B1	0.18	0/2818	0.28	0/3814
13	B6	0.18	0/2818	0.28	0/3814
13	B7	0.18	0/2818	0.28	0/3814
13	BC	0.18	0/2818	0.28	0/3814
13	BH	0.18	0/2818	0.28	0/3814
13	BM	0.18	0/2818	0.28	0/3814
13	BR	0.18	0/2818	0.28	0/3814
13	BW	0.18	0/2818	0.28	0/3814
13	Bb	0.18	0/2818	0.28	0/3814
13	Bg	0.18	0/2818	0.28	0/3814
13	Bl	0.18	0/2818	0.28	0/3814
13	Bq	0.18	0/2818	0.28	0/3814
13	Bv	0.18	0/2818	0.28	0/3814
13	C3	0.18	0/2818	0.28	0/3814
13	C8	0.18	0/2818	0.28	0/3814
13	CB	0.18	0/2818	0.28	0/3814
13	CJ	0.18	0/2818	0.28	0/3814
13	CO	0.18	0/2818	0.28	0/3814
13	CT	0.18	0/2818	0.28	0/3814
13	CY	0.18	0/2818	0.28	0/3814
13	Cd	0.18	0/2818	0.28	0/3814
13	Ci	0.18	0/2818	0.28	0/3814
13	Cn	0.18	0/2818	0.28	0/3814
13	Cs	0.18	0/2818	0.28	0/3814
13	Cx	0.18	0/2818	0.28	0/3814
14	A4	0.18	0/1706	0.29	0/2315
14	A9	0.18	0/1706	0.29	0/2315
14	B2	0.18	0/1706	0.29	0/2315
14	B8	0.18	0/1706	0.29	0/2315

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
14	BD	0.18	0/1706	0.29	0/2315
14	BI	0.18	0/1706	0.29	0/2315
14	BN	0.18	0/1706	0.29	0/2315
14	BS	0.18	0/1706	0.29	0/2315
14	BX	0.18	0/1706	0.29	0/2315
14	Bc	0.18	0/1706	0.29	0/2315
14	Bh	0.18	0/1706	0.29	0/2315
14	Bm	0.18	0/1706	0.29	0/2315
14	Br	0.18	0/1706	0.29	0/2315
14	Bw	0.18	0/1706	0.29	0/2315
14	C4	0.18	0/1706	0.29	0/2315
14	C9	0.18	0/1706	0.29	0/2315
14	CC	0.18	0/1706	0.29	0/2315
14	CK	0.18	0/1706	0.29	0/2315
14	CP	0.18	0/1706	0.29	0/2315
14	CU	0.18	0/1706	0.29	0/2315
14	CZ	0.18	0/1706	0.29	0/2315
14	Ce	0.18	0/1706	0.29	0/2315
14	Cj	0.18	0/1706	0.29	0/2315
14	Co	0.18	0/1706	0.29	0/2315
14	Ct	0.18	0/1706	0.29	0/2315
14	Cy	0.18	0/1706	0.29	0/2315
15	A0	0.23	0/98	0.39	0/129
15	A5	0.23	0/98	0.39	0/129
15	B3	0.24	0/98	0.39	0/129
15	B9	0.23	0/98	0.38	0/129
15	BE	0.23	0/98	0.39	0/129
15	BJ	0.24	0/98	0.38	0/129
15	BO	0.24	0/98	0.39	0/129
15	BT	0.23	0/98	0.39	0/129
15	BY	0.23	0/98	0.39	0/129
15	Bd	0.23	0/98	0.38	0/129
15	Bi	0.23	0/98	0.39	0/129
15	Bn	0.23	0/98	0.38	0/129
15	Bs	0.24	0/98	0.39	0/129
15	Bx	0.23	0/98	0.39	0/129
15	C0	0.23	0/98	0.39	0/129
15	C5	0.23	0/98	0.39	0/129
15	CD	0.23	0/98	0.39	0/129
15	CL	0.23	0/98	0.39	0/129
15	CQ	0.24	0/98	0.38	0/129
15	CV	0.23	0/98	0.39	0/129
15	Ca	0.23	0/98	0.39	0/129

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
15	Cf	0.23	0/98	0.39	0/129
15	Ck	0.23	0/98	0.39	0/129
15	Cp	0.23	0/98	0.39	0/129
15	Cu	0.23	0/98	0.38	0/129
15	Cz	0.24	0/98	0.39	0/129
16	A6	0.34	0/64	0.99	1/88 (1.1%)
16	B0	0.34	0/64	0.99	1/88 (1.1%)
16	B4	0.35	0/64	0.99	1/88 (1.1%)
16	BA	0.35	0/64	0.99	1/88 (1.1%)
16	BF	0.34	0/64	0.99	1/88 (1.1%)
16	BK	0.34	0/64	0.99	1/88 (1.1%)
16	BP	0.34	0/64	1.00	1/88 (1.1%)
16	BU	0.34	0/64	0.99	1/88 (1.1%)
16	BZ	0.34	0/64	0.98	1/88 (1.1%)
16	Be	0.34	0/64	0.99	1/88 (1.1%)
16	Bj	0.34	0/64	0.99	1/88 (1.1%)
16	Bo	0.35	0/64	0.99	1/88 (1.1%)
16	Bt	0.34	0/64	0.99	1/88 (1.1%)
16	By	0.34	0/64	0.98	1/88 (1.1%)
16	C1	0.34	0/64	0.99	1/88 (1.1%)
16	C6	0.34	0/64	0.99	1/88 (1.1%)
16	CE	0.35	0/64	0.99	1/88 (1.1%)
16	CH	0.35	0/64	1.00	1/88 (1.1%)
16	CM	0.34	0/64	0.99	1/88 (1.1%)
16	CR	0.34	0/64	0.98	1/88 (1.1%)
16	CW	0.34	0/64	1.00	1/88 (1.1%)
16	Cb	0.34	0/64	0.99	1/88 (1.1%)
16	Cg	0.34	0/64	0.98	1/88 (1.1%)
16	Cl	0.34	0/64	0.99	1/88 (1.1%)
16	Cq	0.34	0/64	0.99	1/88 (1.1%)
16	Cv	0.34	0/64	0.99	1/88 (1.1%)
16	D0	1.20	0/64	1.44	1/88 (1.1%)
17	A7	0.18	0/2131	0.27	0/2894
17	B5	0.19	0/2131	0.27	0/2894
17	BB	0.19	0/2131	0.27	0/2894
17	BG	0.19	0/2131	0.27	0/2894
17	BL	0.19	0/2131	0.27	0/2894
17	BQ	0.19	0/2131	0.27	0/2894
17	BV	0.19	0/2131	0.27	0/2894
17	Ba	0.19	0/2131	0.28	0/2894
17	Bf	0.19	0/2131	0.27	0/2894
17	Bk	0.19	0/2131	0.27	0/2894
17	Bp	0.19	0/2131	0.27	0/2894

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
17	Bu	0.19	0/2131	0.27	0/2894
17	Bz	0.19	0/2131	0.27	0/2894
17	C2	0.19	0/2131	0.27	0/2894
17	C7	0.19	0/2131	0.27	0/2894
17	CA	0.18	0/2131	0.27	0/2894
17	CF	0.19	0/2131	0.27	0/2894
17	CI	0.19	0/2131	0.27	0/2894
17	CN	0.19	0/2131	0.27	0/2894
17	CS	0.19	0/2131	0.27	0/2894
17	CX	0.19	0/2131	0.27	0/2894
17	Cc	0.19	0/2131	0.27	0/2894
17	Ch	0.19	0/2131	0.27	0/2894
17	Cm	0.19	0/2131	0.27	0/2894
17	Cr	0.19	0/2131	0.27	0/2894
17	Cw	0.19	0/2131	0.27	0/2894
18	CG	0.23	0/2230	0.35	0/3009
18	DA	0.22	0/2237	0.35	0/3019
18	DD	0.23	0/2230	0.35	0/3009
18	DE	0.22	0/2237	0.35	0/3019
18	DH	0.23	0/2230	0.35	0/3009
18	DI	0.22	0/2237	0.36	0/3019
18	DL	0.23	0/2230	0.35	0/3009
18	DM	0.22	0/2237	0.35	0/3019
18	DP	0.23	0/2230	0.35	0/3009
18	DQ	0.22	0/2237	0.36	0/3019
18	DT	0.23	0/2230	0.35	0/3009
18	DU	0.22	0/2237	0.35	0/3019
18	DX	0.23	0/2230	0.35	0/3009
18	DY	0.22	0/2237	0.35	0/3019
18	Db	0.23	0/2230	0.35	0/3009
18	Dc	0.22	0/2237	0.36	0/3019
18	Df	0.23	0/2230	0.35	0/3009
18	Dg	0.22	0/2237	0.36	0/3019
18	Dj	0.23	0/2230	0.35	0/3009
18	Dk	0.22	0/2237	0.35	0/3019
18	Dn	0.23	0/2230	0.35	0/3009
18	Do	0.22	0/2237	0.36	0/3019
18	Dr	0.23	0/2230	0.35	0/3009
18	Ds	0.22	0/2237	0.35	0/3019
18	Dv	0.23	0/2230	0.35	0/3009
18	Dw	0.22	0/2237	0.36	0/3019
19	DB	0.15	0/1499	0.39	0/2029
19	DC	0.17	0/1499	0.38	0/2029

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
19	DF	0.16	0/1499	0.39	0/2029
19	DG	0.17	0/1499	0.38	0/2029
19	DJ	0.16	0/1499	0.39	0/2029
19	DK	0.17	0/1499	0.38	0/2029
19	DN	0.16	0/1499	0.39	0/2029
19	DO	0.17	0/1499	0.38	0/2029
19	DR	0.16	0/1499	0.39	0/2029
19	DS	0.17	0/1499	0.38	0/2029
19	DV	0.16	0/1499	0.39	0/2029
19	DW	0.17	0/1499	0.38	0/2029
19	DZ	0.15	0/1499	0.39	0/2029
19	Da	0.17	0/1499	0.38	0/2029
19	Dd	0.16	0/1499	0.39	0/2029
19	De	0.17	0/1499	0.38	0/2029
19	Dh	0.16	0/1499	0.39	0/2029
19	Di	0.17	0/1499	0.38	0/2029
19	Dl	0.16	0/1499	0.39	0/2029
19	Dm	0.17	0/1499	0.38	0/2029
19	Dp	0.16	0/1499	0.39	0/2029
19	Dq	0.17	0/1499	0.38	0/2029
19	Dt	0.16	0/1499	0.39	0/2029
19	Du	0.17	0/1499	0.38	0/2029
19	Dx	0.16	0/1499	0.39	0/2029
19	Dy	0.17	0/1499	0.38	0/2029
20	D6	1.15	0/57	1.40	1/77 (1.3%)
20	D7	1.27	0/42	1.22	0/56
20	D8	1.16	0/47	1.30	0/63
20	D9	1.09	0/47	1.29	0/63
21	EA	1.12	0/83	1.44	0/114
21	EB	1.11	0/83	1.44	0/114
21	EC	1.12	0/83	1.45	0/114
21	ED	1.10	0/83	1.45	0/114
21	EE	1.11	0/83	1.45	0/114
21	EF	1.11	0/83	1.44	0/114
All	All	0.20	3/564349 (0.0%)	0.33	65/764531 (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
2	2	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
5	AP	0	2
6	A1	0	1
6	A2	0	1
6	Ay	0	1
6	Az	0	1
7	EY	0	1
7	Eh	0	1
7	Ei	0	1
7	Eq	0	1
All	All	0	11

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	W	52	PRO	C-O	-5.50	1.17	1.23
5	Q	37	SER	CA-CB	-5.41	1.45	1.53
6	At	45	SER	CA-CB	-5.16	1.45	1.53

All (65) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Az	54	PRO	N-CA-C	-12.35	92.02	111.03
6	Aq	49	ASN	CB-CA-C	-10.20	104.79	116.63
6	A1	54	PRO	N-CA-C	-10.18	95.21	111.19
6	A2	54	PRO	N-CA-C	-9.44	96.37	111.19
6	At	46	LEU	N-CA-C	-8.75	102.61	113.28
6	Ax	51	LYS	N-CA-C	-8.75	102.38	113.23
6	A3	54	PRO	N-CA-C	-8.65	96.94	110.95
10	p	227	MET	N-CA-C	-8.17	103.44	113.41
16	BP	6	PRO	N-CA-CB	7.73	110.19	103.31
16	CW	6	PRO	N-CA-CB	7.71	110.17	103.31
16	Bo	6	PRO	N-CA-CB	7.71	110.17	103.31
16	CH	6	PRO	N-CA-CB	7.71	110.17	103.31
16	BF	6	PRO	N-CA-CB	7.70	110.16	103.31
16	Cv	6	PRO	N-CA-CB	7.69	110.16	103.31
16	CE	6	PRO	N-CA-CB	7.68	110.15	103.31
16	B4	6	PRO	N-CA-CB	7.67	110.14	103.31
16	Cb	6	PRO	N-CA-CB	7.67	110.14	103.31
16	B0	6	PRO	N-CA-CB	7.67	110.14	103.31
16	Bt	6	PRO	N-CA-CB	7.67	110.14	103.31
16	Bj	6	PRO	N-CA-CB	7.67	110.13	103.31
16	BU	6	PRO	N-CA-CB	7.66	110.13	103.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	A6	6	PRO	N-CA-CB	7.66	110.13	103.31
16	BK	6	PRO	N-CA-CB	7.65	110.12	103.31
16	Cq	6	PRO	N-CA-CB	7.65	110.12	103.31
16	BA	6	PRO	N-CA-CB	7.65	110.11	103.31
16	C1	6	PRO	N-CA-CB	7.64	110.11	103.31
16	C6	6	PRO	N-CA-CB	7.63	110.10	103.31
16	CM	6	PRO	N-CA-CB	7.63	110.10	103.31
16	Be	6	PRO	N-CA-CB	7.62	110.09	103.31
16	CR	6	PRO	N-CA-CB	7.62	110.09	103.31
16	Cg	6	PRO	N-CA-CB	7.62	110.09	103.31
16	BZ	6	PRO	N-CA-CB	7.62	110.09	103.31
16	Cl	6	PRO	N-CA-CB	7.61	110.08	103.31
16	By	6	PRO	N-CA-CB	7.56	110.03	103.31
6	Ay	54	PRO	N-CA-C	-7.50	99.42	111.19
5	AP	161	ARG	CB-CA-C	-7.48	97.40	109.75
6	Az	51	LYS	N-CA-C	-7.41	103.29	111.36
6	A3	42	TYR	CB-CA-C	-7.05	99.95	110.24
6	Ap	51	LYS	N-CA-C	-6.70	104.12	112.90
6	Aw	46	LEU	N-CA-C	-6.67	104.41	112.54
20	D6	12	PRO	N-CA-CB	6.20	109.82	103.00
6	Ao	51	LYS	N-CA-C	-6.17	104.82	112.90
16	D0	6	PRO	N-CA-CB	6.01	109.56	103.25
6	Av	46	LEU	N-CA-C	-5.97	104.68	111.07
6	A2	55	GLY	N-CA-C	5.96	121.35	112.41
6	A2	41	VAL	O-C-N	-5.88	116.91	123.26
6	As	46	LEU	N-CA-C	-5.86	106.14	113.28
6	A1	42	TYR	CB-CA-C	-5.74	103.60	110.94
6	Av	41	VAL	O-C-N	-5.63	117.23	123.20
6	At	55	GLY	CA-C-O	-5.62	116.47	122.76
6	Ax	373	PHE	N-CA-C	-5.58	106.83	113.97
6	Au	46	LEU	N-CA-C	-5.45	105.73	112.38
6	A2	47	PHE	N-CA-C	-5.45	106.51	112.72
5	U	84	GLY	CA-C-N	-5.44	113.09	123.32
5	U	84	GLY	C-N-CA	-5.44	113.09	123.32
5	U	84	GLY	N-CA-C	-5.35	103.14	112.55
6	As	41	VAL	O-C-N	-5.33	117.55	123.20
6	Aw	44	ASN	CB-CA-C	5.30	119.84	109.35
6	Az	62	GLN	CB-CA-C	-5.28	100.36	109.86
6	A1	373	PHE	N-CA-C	-5.20	106.19	112.54
6	As	51	LYS	N-CA-C	-5.17	106.08	112.38
6	Aq	48	THR	N-CA-C	-5.12	106.58	114.16
6	Ax	54	PRO	N-CA-CB	-5.12	96.56	102.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A1	370	SER	O-C-N	5.05	128.66	122.96
6	Av	44	ASN	CB-CA-C	5.04	119.61	109.38

There are no chirality outliers.

All (11) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	2	188	ARG	Sidechain
6	A1	353	ARG	Sidechain
6	A2	41	VAL	Mainchain
5	AP	161	ARG	Sidechain
5	AP	163	ARG	Sidechain
6	Ay	353	ARG	Sidechain
6	Az	353	ARG	Sidechain
7	EY	194	ARG	Sidechain
7	Eh	194	ARG	Sidechain
7	Ei	236	ARG	Sidechain
7	Eq	194	ARG	Sidechain

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	0	1361	0	1418	27	0
1	9	1361	0	1418	22	0
2	1	1599	0	1685	46	0
2	2	1608	0	1691	51	0
2	3	1608	0	1691	37	0
2	y	1608	0	1691	68	0
2	z	1608	0	1691	56	0
3	4	722	0	768	29	0
3	5	722	0	768	32	0
3	6	722	0	768	36	0
3	7	722	0	768	40	0
4	8	1896	0	1968	49	0
5	A	1956	0	1907	40	0
5	AP	1956	0	1907	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	AQ	1956	0	1907	31	0
5	AR	1858	0	1813	43	0
5	AS	1858	0	1813	39	0
5	AT	1866	0	1825	33	0
5	AU	1858	0	1813	39	0
5	AV	1858	0	1813	35	0
5	AW	1956	0	1907	41	0
5	AX	1956	0	1907	38	0
5	AY	1956	0	1907	83	0
5	AZ	1956	0	1907	107	0
5	Aa	1956	0	1907	86	0
5	B	1956	0	1907	42	0
5	C	1956	0	1907	37	0
5	P	1956	0	1907	110	0
5	Q	1956	0	1907	104	0
5	R	1956	0	1907	34	0
5	S	1956	0	1907	77	0
5	T	1956	0	1907	89	0
5	U	1956	0	1907	69	0
5	V	1956	0	1907	61	0
5	W	1956	0	1907	51	0
5	X	1956	0	1907	58	0
5	Y	1956	0	1907	41	0
5	Z	1956	0	1907	31	0
5	a	1956	0	1907	43	0
6	A1	3319	0	3124	90	0
6	A2	3319	0	3124	105	0
6	A3	3319	0	3124	106	0
6	Ab	3319	0	3124	56	0
6	Ac	3319	0	3124	64	0
6	Ad	3319	0	3124	51	0
6	Ae	3319	0	3124	47	0
6	Af	3319	0	3124	58	0
6	Ag	3319	0	3124	53	0
6	Ah	3319	0	3124	48	0
6	Ai	3319	0	3124	51	0
6	Aj	3319	0	3124	56	0
6	Ak	3319	0	3124	57	0
6	Al	3319	0	3124	42	0
6	Am	3319	0	3124	42	0
6	An	3319	0	3124	59	0
6	Ao	3319	0	3124	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	Ap	3319	0	3124	71	0
6	Aq	3319	0	3124	63	0
6	Ar	3319	0	3124	62	0
6	As	3319	0	3124	80	0
6	At	3319	0	3124	73	0
6	Au	3319	0	3124	74	0
6	Av	3319	0	3124	86	0
6	Aw	3319	0	3124	65	0
6	Ax	3319	0	3124	88	0
6	Ay	3319	0	3124	128	0
6	Az	3319	0	3124	117	0
6	D	3319	0	3124	41	0
6	E	3319	0	3124	40	0
6	F	3319	0	3124	40	0
6	G	3319	0	3124	39	0
6	H	3319	0	3124	39	0
6	I	3319	0	3124	48	0
6	J	3319	0	3124	45	0
6	K	3319	0	3124	42	0
6	L	3319	0	3124	49	0
6	M	3319	0	3124	46	0
6	N	3319	0	3124	41	0
6	O	3319	0	3124	45	0
7	AA	135	0	128	4	0
7	AB	135	0	128	3	0
7	AC	139	0	131	4	0
7	AD	135	0	128	6	0
7	AE	135	0	128	2	0
7	AF	158	0	152	16	0
7	AG	73	0	72	3	0
7	AH	73	0	72	4	0
7	AI	73	0	72	8	0
7	AJ	163	0	157	5	0
7	AK	169	0	164	6	0
7	AL	220	0	215	3	0
7	AM	224	0	218	5	0
7	AN	224	0	218	2	0
7	AO	220	0	215	3	0
7	D1	1171	0	1164	12	0
7	D2	1171	0	1164	14	0
7	D3	1171	0	1164	17	0
7	D4	1171	0	1164	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	D5	1171	0	1164	19	0
7	Dz	1171	0	1164	13	0
7	E1	1171	0	1164	15	0
7	E2	1171	0	1164	14	0
7	E3	1171	0	1164	22	0
7	E4	1171	0	1164	14	0
7	E5	1171	0	1164	14	0
7	EG	1171	0	1164	16	0
7	EH	1171	0	1164	13	0
7	EI	1171	0	1164	12	0
7	EJ	1171	0	1164	15	0
7	EK	1171	0	1164	24	0
7	EL	1171	0	1164	19	0
7	EM	1171	0	1164	22	0
7	EN	1171	0	1164	14	0
7	EO	1171	0	1164	14	0
7	EP	1171	0	1164	13	0
7	EQ	1171	0	1164	12	0
7	ER	1171	0	1164	18	0
7	ES	1171	0	1164	22	0
7	ET	1171	0	1164	14	0
7	EU	1171	0	1164	12	0
7	EV	1171	0	1164	12	0
7	EW	1171	0	1164	12	0
7	EX	881	0	910	60	0
7	EY	881	0	910	64	0
7	EZ	881	0	910	37	0
7	Ea	881	0	910	37	0
7	Eb	881	0	910	48	0
7	Ec	839	0	864	31	0
7	Ed	881	0	910	58	0
7	Ee	881	0	910	38	0
7	Ef	881	0	910	42	0
7	Eg	724	0	758	31	0
7	Eh	803	0	837	45	0
7	Ei	803	0	837	38	0
7	Ej	803	0	837	32	0
7	Ek	660	0	699	21	0
7	El	704	0	741	28	0
7	Em	695	0	735	30	0
7	En	684	0	725	31	0
7	Eo	704	0	741	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	Ep	881	0	910	60	0
7	Eq	881	0	910	40	0
7	Er	881	0	910	39	0
7	Es	802	0	836	36	0
7	Et	881	0	910	37	0
7	Eu	1171	0	1164	14	0
7	Ev	1171	0	1164	16	0
7	Ew	1171	0	1164	14	0
7	Ex	1171	0	1164	16	0
7	Ey	1171	0	1164	14	0
7	Ez	1171	0	1164	12	0
8	b	845	0	833	12	0
8	c	835	0	825	22	0
8	d	845	0	833	11	0
8	e	837	0	829	14	0
8	f	837	0	829	15	0
9	g	983	0	958	12	0
9	h	983	0	958	24	0
9	i	983	0	958	37	0
9	j	983	0	958	12	0
9	k	983	0	958	20	0
9	l	983	0	958	26	0
10	m	1879	0	1864	37	0
10	n	1879	0	1864	61	0
10	o	1879	0	1864	35	0
10	p	1879	0	1864	34	0
10	q	1879	0	1864	43	0
11	r	560	0	561	12	0
11	s	605	0	609	10	0
11	t	605	0	609	19	0
11	u	560	0	561	10	0
11	v	560	0	561	20	0
11	w	311	0	320	8	0
12	x	552	0	577	21	0
13	A8	2774	0	2747	73	0
13	B1	2774	0	2747	73	0
13	B6	2774	0	2747	77	0
13	B7	2774	0	2747	75	0
13	BC	2774	0	2747	71	0
13	BH	2774	0	2747	74	0
13	BM	2774	0	2747	71	0
13	BR	2774	0	2747	75	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	BW	2774	0	2747	72	0
13	Bb	2774	0	2747	77	0
13	Bg	2774	0	2747	77	0
13	Bl	2774	0	2747	78	0
13	Bq	2774	0	2747	72	0
13	Bv	2774	0	2747	75	0
13	C3	2774	0	2747	71	0
13	C8	2774	0	2747	74	0
13	CB	2774	0	2747	72	0
13	CJ	2774	0	2747	73	0
13	CO	2774	0	2747	68	0
13	CT	2774	0	2747	76	0
13	CY	2774	0	2747	72	0
13	Cd	2774	0	2747	76	0
13	Ci	2774	0	2747	74	0
13	Cn	2774	0	2747	78	0
13	Cs	2774	0	2747	73	0
13	Cx	2774	0	2747	74	0
14	A4	1678	0	1612	64	0
14	A9	1678	0	1612	65	0
14	B2	1678	0	1612	66	0
14	B8	1678	0	1612	66	0
14	BD	1678	0	1612	63	0
14	BI	1678	0	1612	64	0
14	BN	1678	0	1612	65	0
14	BS	1678	0	1612	68	0
14	BX	1678	0	1612	65	0
14	Bc	1678	0	1612	63	0
14	Bh	1678	0	1612	63	0
14	Bm	1678	0	1612	64	0
14	Br	1678	0	1612	66	0
14	Bw	1678	0	1612	66	0
14	C4	1678	0	1612	63	0
14	C9	1678	0	1612	63	0
14	CC	1678	0	1612	65	0
14	CK	1678	0	1612	65	0
14	CP	1678	0	1612	65	0
14	CU	1678	0	1612	62	0
14	CZ	1678	0	1612	65	0
14	Ce	1678	0	1612	66	0
14	Cj	1678	0	1612	63	0
14	Co	1678	0	1612	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	Ct	1678	0	1612	63	0
14	Cy	1678	0	1612	64	0
15	A0	97	0	98	6	0
15	A5	97	0	98	6	0
15	B3	97	0	98	6	0
15	B9	97	0	98	6	0
15	BE	97	0	98	6	0
15	BJ	97	0	98	6	0
15	BO	97	0	98	6	0
15	BT	97	0	98	6	0
15	BY	97	0	98	6	0
15	Bd	97	0	98	6	0
15	Bi	97	0	98	6	0
15	Bn	97	0	98	6	0
15	Bs	97	0	98	6	0
15	Bx	97	0	98	6	0
15	C0	97	0	98	6	0
15	C5	97	0	98	6	0
15	CD	97	0	98	6	0
15	CL	97	0	98	6	0
15	CQ	97	0	98	6	0
15	CV	97	0	98	6	0
15	Ca	97	0	98	6	0
15	Cf	97	0	98	6	0
15	Ck	97	0	98	6	0
15	Cp	97	0	98	6	0
15	Cu	97	0	98	6	0
15	Cz	97	0	98	6	0
16	A6	65	0	30	5	0
16	B0	65	0	30	5	0
16	B4	65	0	30	5	0
16	BA	65	0	30	5	0
16	BF	65	0	30	5	0
16	BK	65	0	30	5	0
16	BP	65	0	30	5	0
16	BU	65	0	30	5	0
16	BZ	65	0	30	5	0
16	Be	65	0	30	5	0
16	Bj	65	0	30	5	0
16	Bo	65	0	30	5	0
16	Bt	65	0	30	5	0
16	By	65	0	30	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	C1	65	0	30	5	0
16	C6	65	0	30	5	0
16	CE	65	0	30	5	0
16	CH	65	0	30	5	0
16	CM	65	0	30	5	0
16	CR	65	0	30	5	0
16	CW	65	0	30	5	0
16	Cb	65	0	30	5	0
16	Cg	65	0	30	5	0
16	Cl	65	0	30	5	0
16	Cq	65	0	30	5	0
16	Cv	65	0	30	5	0
16	D0	65	0	30	5	0
17	A7	2102	0	2158	42	0
17	B5	2102	0	2158	45	0
17	BB	2102	0	2158	44	0
17	BG	2102	0	2158	48	0
17	BL	2102	0	2158	42	0
17	BQ	2102	0	2158	43	0
17	BV	2102	0	2158	45	0
17	Ba	2102	0	2158	44	0
17	Bf	2102	0	2158	44	0
17	Bk	2102	0	2158	43	0
17	Bp	2102	0	2158	43	0
17	Bu	2102	0	2158	43	0
17	Bz	2102	0	2158	45	0
17	C2	2102	0	2158	44	0
17	C7	2102	0	2158	44	0
17	CA	2102	0	2158	49	0
17	CF	2102	0	2158	44	0
17	CI	2102	0	2158	42	0
17	CN	2102	0	2158	45	0
17	CS	2102	0	2158	45	0
17	CX	2102	0	2158	46	0
17	Cc	2102	0	2158	45	0
17	Ch	2102	0	2158	44	0
17	Cm	2102	0	2158	44	0
17	Cr	2102	0	2158	43	0
17	Cw	2102	0	2158	44	0
18	CG	2183	0	2154	32	0
18	DA	2190	0	2163	47	0
18	DD	2183	0	2154	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	DE	2190	0	2163	46	0
18	DH	2183	0	2154	32	0
18	DI	2190	0	2163	43	0
18	DL	2183	0	2154	31	0
18	DM	2190	0	2163	46	0
18	DP	2183	0	2154	34	0
18	DQ	2190	0	2163	47	0
18	DT	2183	0	2154	32	0
18	DU	2190	0	2163	49	0
18	DX	2183	0	2154	33	0
18	DY	2190	0	2163	46	0
18	Db	2183	0	2154	32	0
18	Dc	2190	0	2163	48	0
18	Df	2183	0	2154	33	0
18	Dg	2190	0	2163	48	0
18	Dj	2183	0	2154	35	0
18	Dk	2190	0	2163	45	0
18	Dn	2183	0	2154	33	0
18	Do	2190	0	2163	45	0
18	Dr	2183	0	2154	34	0
18	Ds	2190	0	2163	48	0
18	Dv	2183	0	2154	34	0
18	Dw	2190	0	2163	47	0
19	DB	1471	0	1457	28	0
19	DC	1471	0	1457	25	0
19	DF	1471	0	1457	27	0
19	DG	1471	0	1457	27	0
19	DJ	1471	0	1457	27	0
19	DK	1471	0	1457	27	0
19	DN	1471	0	1457	28	0
19	DO	1471	0	1457	25	0
19	DR	1471	0	1457	29	0
19	DS	1471	0	1457	28	0
19	DV	1471	0	1457	28	0
19	DW	1471	0	1457	28	0
19	DZ	1471	0	1457	28	0
19	Da	1471	0	1457	26	0
19	Dd	1471	0	1457	27	0
19	De	1471	0	1457	26	0
19	Dh	1471	0	1457	28	0
19	Di	1471	0	1457	27	0
19	Dl	1471	0	1457	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	Dm	1471	0	1457	28	0
19	Dp	1471	0	1457	27	0
19	Dq	1471	0	1457	30	0
19	Dt	1471	0	1457	27	0
19	Du	1471	0	1457	27	0
19	Dx	1471	0	1457	25	0
19	Dy	1471	0	1457	28	0
20	D6	58	0	27	8	0
20	D7	43	0	22	12	0
20	D8	48	0	24	13	0
20	D9	48	0	24	7	0
21	EA	84	0	46	6	0
21	EB	84	0	46	3	0
21	EC	84	0	46	4	0
21	ED	84	0	46	1	0
21	EE	84	0	46	2	0
21	EF	84	0	46	4	0
22	2	51	0	78	12	0
22	e	51	0	78	4	0
22	t	51	0	78	17	0
22	v	51	0	78	12	0
23	e	32	0	0	1	0
23	s	32	0	0	1	0
23	t	32	0	0	2	0
23	u	32	0	0	3	0
23	v	32	0	0	6	0
All	All	555596	0	544123	9596	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 9.

All (9596) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:64:LEU:HD11	7:EY:148:PHE:CE1	1.54	1.41
6:Ax:371:THR:HG22	5:S:161:ARG:CZ	1.61	1.30
6:Ay:371:THR:HG22	5:T:161:ARG:NH1	1.41	1.30
3:4:15:TRP:CD1	7:Er:148:PHE:HE2	1.51	1.28
2:y:288:ALA:CB	7:Er:192:PHE:HA	1.63	1.26
2:1:189:ILE:HD11	7:Eh:192:PHE:C	1.59	1.26
2:1:189:ILE:CD1	7:Eh:192:PHE:C	2.09	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:EC:17:ASN:CB	7:E3:306:THR:HG21	1.66	1.25
6:Au:46:LEU:CD1	5:U:150:ILE:HG13	1.72	1.19
6:Ax:49:ASN:HD21	5:X:218:SER:HB3	1.06	1.18
5:AZ:119:GLN:HE21	6:Az:35:ARG:NH2	1.41	1.15
6:Au:46:LEU:HD11	5:U:150:ILE:HG13	1.20	1.15
11:v:40:ALA:HB2	23:v:201:XKP:O	1.46	1.15
6:Az:48:THR:HG22	5:U:82:THR:OG1	1.46	1.15
6:A1:6:LEU:HD13	5:P:232:VAL:HG11	1.31	1.13
5:AZ:187:PRO:HB2	6:Az:42:TYR:CD1	1.83	1.13
6:A2:433:ILE:HD11	5:P:241:TYR:OH	1.47	1.13
2:y:206:PRO:HA	7:Ep:192:PHE:HE2	1.09	1.13
5:Aa:232:VAL:HG11	6:Az:6:LEU:HD13	1.27	1.11
6:Aw:46:LEU:HD11	5:W:150:ILE:HG13	1.21	1.11
2:1:189:ILE:HD11	7:Eh:192:PHE:O	1.51	1.11
6:A2:42:TYR:CD2	5:P:187:PRO:HB2	1.87	1.10
2:y:206:PRO:CA	7:Ep:192:PHE:CE2	2.35	1.10
5:AZ:235:ILE:CG2	6:Ay:427:ASN:HD21	1.65	1.10
2:2:185:LYS:CD	7:Ed:194:ARG:NH1	2.14	1.09
6:Ax:49:ASN:ND2	5:X:218:SER:HB3	1.66	1.09
3:4:15:TRP:CD1	7:Er:148:PHE:CE2	2.41	1.09
21:EA:7:GLU:CB	7:EL:306:THR:HG21	1.82	1.08
5:AY:231:LEU:HD13	6:As:434:LEU:HD12	1.34	1.08
2:2:189:ILE:HD13	7:Ed:193:VAL:HG22	1.36	1.08
5:AY:231:LEU:HD11	6:As:434:LEU:HD11	1.29	1.08
10:n:157:GLU:HG3	17:BG:76:LYS:NZ	1.68	1.08
2:y:206:PRO:HA	7:Ep:192:PHE:CE2	1.89	1.08
6:Au:46:LEU:HD11	5:U:150:ILE:CG1	1.84	1.07
5:AZ:231:LEU:HD13	6:At:434:LEU:CD1	1.82	1.07
5:AZ:231:LEU:HD13	6:At:434:LEU:HD12	1.26	1.07
10:n:157:GLU:HG3	17:BG:76:LYS:HZ1	0.98	1.07
12:x:74:ASP:OD2	7:Eo:152:GLN:HG2	1.55	1.07
5:AY:235:ILE:CG2	6:Ax:427:ASN:HD21	1.67	1.06
2:y:206:PRO:HB3	7:Ep:192:PHE:CE2	1.89	1.06
6:A3:48:THR:CG2	5:X:82:THR:OG1	2.04	1.06
9:i:52:GLU:HG3	9:i:52:GLU:O	1.47	1.06
3:7:64:LEU:HD11	7:EY:148:PHE:CD1	1.89	1.05
6:Az:372:GLN:NE2	5:U:168:ASN:HB2	1.70	1.05
2:2:185:LYS:CD	7:Ed:194:ARG:HH12	1.69	1.05
6:Ay:371:THR:CG2	5:T:161:ARG:NH1	2.19	1.05
2:y:206:PRO:HB3	7:Ep:192:PHE:CD2	1.91	1.05
6:A2:6:LEU:HD13	5:Q:232:VAL:HG11	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:371:THR:CG2	5:S:161:ARG:NH1	2.20	1.05
3:6:15:TRP:CZ2	7:Eg:148:PHE:HE2	1.74	1.04
21:EF:3:GLY:HA2	7:ES:381:ILE:HG21	1.37	1.04
5:AY:235:ILE:CG2	6:Ax:427:ASN:ND2	2.21	1.03
5:AZ:231:LEU:HD11	6:At:434:LEU:HD11	1.38	1.03
6:A3:6:LEU:HD13	5:S:232:VAL:HG11	1.40	1.03
5:AY:231:LEU:CD1	6:As:434:LEU:HD11	1.88	1.02
5:AY:231:LEU:CD1	6:As:434:LEU:CD1	2.37	1.02
5:AZ:235:ILE:HG23	6:Ay:427:ASN:HD21	1.23	1.02
6:A3:49:ASN:HD21	5:AW:218:SER:HB3	1.25	1.01
5:AY:231:LEU:HD13	6:As:434:LEU:CD1	1.90	1.01
5:AZ:119:GLN:HE22	6:Az:37:GLU:HG2	1.23	1.01
5:AZ:231:LEU:CD1	6:At:434:LEU:HD11	1.90	1.01
2:1:206:PRO:HG3	7:Ei:192:PHE:CD2	1.95	1.01
2:2:189:ILE:CD1	7:Ed:193:VAL:HG22	1.89	1.01
3:7:64:LEU:HD11	7:EY:148:PHE:CZ	1.96	1.01
5:AY:235:ILE:HG22	6:Ax:427:ASN:HD21	1.23	1.01
12:x:76:ALA:HB3	7:Eo:152:GLN:HE21	1.26	1.01
6:Ax:47:PHE:HE1	5:X:93:LEU:HD11	1.23	1.00
2:y:197:THR:HG21	7:Ea:194:ARG:HG2	1.39	1.00
5:AY:238:GLN:HE22	6:Ay:428:GLN:HE21	1.06	0.99
5:AZ:231:LEU:CD1	6:At:434:LEU:CD1	2.39	0.99
6:A3:427:ASN:ND2	5:S:235:ILE:HG21	1.76	0.99
3:6:15:TRP:CZ2	7:Eg:148:PHE:CE2	2.51	0.99
5:Aa:235:ILE:HG21	6:Az:427:ASN:ND2	1.79	0.98
2:y:206:PRO:CB	7:Ep:192:PHE:CE2	2.46	0.98
3:5:71:GLN:NE2	7:Ea:151:SER:HB2	1.76	0.98
6:Aw:46:LEU:CD1	5:W:150:ILE:HG13	1.92	0.98
17:BB:277:GLY:O	17:BG:340:PRO:HB2	1.64	0.98
2:2:185:LYS:HD2	7:Ed:194:ARG:NH1	1.78	0.98
17:Bf:277:GLY:O	17:Bk:340:PRO:HB2	1.64	0.98
17:Ba:277:GLY:O	17:Bf:340:PRO:HB2	1.64	0.98
17:Bk:277:GLY:O	17:Bp:340:PRO:HB2	1.64	0.98
17:Bp:277:GLY:O	17:Bu:340:PRO:HB2	1.64	0.98
6:Ay:371:THR:HG22	5:T:161:ARG:CZ	1.93	0.97
17:A7:277:GLY:O	17:BB:340:PRO:HB2	1.64	0.97
17:BG:277:GLY:O	17:BL:340:PRO:HB2	1.64	0.97
17:Bu:277:GLY:O	17:Bz:340:PRO:HB2	1.64	0.97
17:B5:340:PRO:HB2	17:Bz:277:GLY:O	1.64	0.97
17:BV:277:GLY:O	17:Ba:340:PRO:HB2	1.64	0.97
3:6:68:TRP:CZ2	7:Ef:148:PHE:HZ	1.81	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CA:340:PRO:HB2	17:B5:277:GLY:O	1.64	0.97
17:Cw:277:GLY:O	17:C2:340:PRO:HB2	1.64	0.97
17:BQ:277:GLY:O	17:BV:340:PRO:HB2	1.64	0.97
17:CA:277:GLY:O	17:CF:340:PRO:HB2	1.64	0.97
17:Cr:277:GLY:O	17:Cw:340:PRO:HB2	1.64	0.97
17:BL:277:GLY:O	17:BQ:340:PRO:HB2	1.64	0.97
17:CF:277:GLY:O	17:CN:340:PRO:HB2	1.64	0.97
17:CN:277:GLY:O	17:CS:340:PRO:HB2	1.64	0.97
17:CS:277:GLY:O	17:CX:340:PRO:HB2	1.64	0.97
17:CX:277:GLY:O	17:Cc:340:PRO:HB2	1.64	0.97
13:Bv:362:ASN:HD22	18:Dw:89:ILE:HD11	1.30	0.97
19:Da:208:ASP:OD2	18:Dc:293:VAL:CG1	2.13	0.96
3:4:89:TYR:HE2	7:Eq:188:LYS:HB2	1.28	0.96
6:A3:45:SER:OG	5:X:83:HIS:CE1	2.19	0.96
6:Aw:434:LEU:HD11	5:Q:231:LEU:HD11	1.44	0.96
2:z:206:PRO:HG3	7:EX:192:PHE:CG	2.00	0.96
17:Cc:277:GLY:O	17:Ch:340:PRO:HB2	1.64	0.96
17:Ch:277:GLY:O	17:Cm:340:PRO:HB2	1.64	0.96
19:DO:208:ASP:OD2	18:DQ:293:VAL:CG1	2.13	0.96
5:AY:232:VAL:HG11	6:Ax:6:LEU:HD13	1.48	0.96
17:CI:277:GLY:O	17:A7:340:PRO:HB2	1.64	0.96
13:A8:205:THR:HB	14:A9:32:THR:HG23	1.47	0.96
17:C2:277:GLY:O	17:C7:340:PRO:HB2	1.64	0.96
18:DA:89:ILE:HD11	13:B6:362:ASN:HD22	1.30	0.96
19:DK:208:ASP:OD2	18:DM:293:VAL:CG1	2.13	0.96
13:CJ:205:THR:HB	14:A4:32:THR:HG23	1.47	0.96
17:Cm:277:GLY:O	17:Cr:340:PRO:HB2	1.64	0.96
13:BC:205:THR:HB	14:BD:32:THR:HG23	1.47	0.96
13:Bl:362:ASN:HD22	18:Ds:89:ILE:HD11	1.30	0.96
19:Du:208:ASP:OD2	18:Dw:293:VAL:CG1	2.13	0.96
2:y:288:ALA:HB3	7:Er:192:PHE:CD1	2.00	0.96
18:DA:293:VAL:CG1	19:Dy:208:ASP:OD2	2.13	0.96
19:DW:208:ASP:OD2	18:DY:293:VAL:CG1	2.13	0.96
6:A2:427:ASN:ND2	5:Q:235:ILE:HG21	1.78	0.96
6:Az:372:GLN:NE2	5:U:168:ASN:CB	2.29	0.96
17:CI:340:PRO:HB2	17:C7:277:GLY:O	1.64	0.96
13:BR:362:ASN:HD22	18:Dk:89:ILE:HD11	1.30	0.96
13:Bb:362:ASN:HD22	18:Do:89:ILE:HD11	1.30	0.96
19:De:208:ASP:OD2	18:Dg:293:VAL:CG1	2.13	0.96
19:Dm:208:ASP:OD2	18:Do:293:VAL:CG1	2.13	0.96
19:Dq:208:ASP:OD2	18:Ds:293:VAL:CG1	2.14	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:48:THR:HG22	5:S:82:THR:OG1	1.66	0.95
13:Cn:205:THR:HB	14:Co:32:THR:HG23	1.47	0.95
19:DS:208:ASP:OD2	18:DU:293:VAL:CG1	2.13	0.95
5:AY:238:GLN:HE22	6:Ay:428:GLN:NE2	1.64	0.95
14:B8:32:THR:HG23	13:B6:205:THR:HB	1.47	0.95
13:B1:205:THR:HB	14:B2:32:THR:HG23	1.47	0.95
13:BH:205:THR:HB	14:BI:32:THR:HG23	1.47	0.95
6:Ax:371:THR:CG2	5:S:161:ARG:CZ	2.44	0.95
13:CB:205:THR:HB	14:CC:32:THR:HG23	1.47	0.95
13:Ci:205:THR:HB	14:Cj:32:THR:HG23	1.47	0.95
2:2:185:LYS:HD3	7:Ed:194:ARG:NH1	1.80	0.95
6:A2:42:TYR:CE2	5:P:187:PRO:CB	2.49	0.95
2:y:288:ALA:HB3	7:Er:192:PHE:HA	1.44	0.95
13:C8:205:THR:HB	14:C9:32:THR:HG23	1.47	0.95
19:DC:208:ASP:OD2	18:DE:293:VAL:CG1	2.13	0.95
19:DC:208:ASP:OD2	18:DE:293:VAL:HG12	1.67	0.95
19:DK:208:ASP:OD2	18:DM:293:VAL:HG12	1.67	0.95
19:Du:208:ASP:OD2	18:Dw:293:VAL:HG12	1.67	0.95
13:Cd:362:ASN:HD22	18:DM:89:ILE:HD11	1.30	0.95
18:DA:293:VAL:HG12	19:Dy:208:ASP:OD2	1.67	0.95
13:Bv:205:THR:HB	14:Bw:32:THR:HG23	1.47	0.95
19:DG:208:ASP:OD2	18:DI:293:VAL:HG12	1.67	0.95
13:Cn:362:ASN:HD22	18:DQ:89:ILE:HD11	1.30	0.95
19:DO:208:ASP:OD2	18:DQ:293:VAL:HG12	1.67	0.95
19:DW:208:ASP:OD2	18:DY:293:VAL:HG12	1.67	0.95
19:Di:208:ASP:OD2	18:Dk:293:VAL:HG12	1.67	0.95
13:B7:362:ASN:HD22	18:DE:89:ILE:HD11	1.30	0.95
19:Di:208:ASP:OD2	18:Dk:293:VAL:CG1	2.13	0.95
13:Cs:205:THR:HB	14:Ct:32:THR:HG23	1.47	0.95
19:DG:208:ASP:OD2	18:DI:293:VAL:CG1	2.14	0.95
13:B7:205:THR:HB	14:CK:32:THR:HG23	1.47	0.94
13:BH:362:ASN:HD22	18:Dg:89:ILE:HD11	1.30	0.94
19:Dq:208:ASP:OD2	18:Ds:293:VAL:HG12	1.67	0.94
3:7:64:LEU:CD1	7:EY:148:PHE:CD1	2.50	0.94
13:Cd:205:THR:HB	14:Ce:32:THR:HG23	1.47	0.94
19:DS:208:ASP:OD2	18:DU:293:VAL:HG12	1.67	0.94
13:Bq:205:THR:HB	14:Br:32:THR:HG23	1.47	0.94
19:De:208:ASP:OD2	18:Dg:293:VAL:HG12	1.67	0.94
21:EF:3:GLY:CA	7:ES:381:ILE:HG21	1.96	0.94
6:Av:371:THR:HG22	5:P:161:ARG:NH2	1.82	0.94
9:i:52:GLU:O	9:i:52:GLU:CG	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Az:372:GLN:NE2	5:U:168:ASN:CG	2.26	0.94
20:D8:3:LEU:N	7:EL:374:ASN:OD1	2.01	0.94
3:4:15:TRP:CG	7:Er:148:PHE:CE2	2.56	0.94
2:y:288:ALA:HB1	7:Er:192:PHE:HA	1.46	0.94
13:CO:205:THR:HB	14:CP:32:THR:HG23	1.47	0.94
13:CT:362:ASN:HD22	18:DI:89:ILE:HD11	1.30	0.94
13:C3:205:THR:HB	14:C4:32:THR:HG23	1.47	0.94
13:BM:205:THR:HB	14:BN:32:THR:HG23	1.47	0.94
13:Bl:205:THR:HB	14:Bm:32:THR:HG23	1.47	0.94
19:Dm:208:ASP:OD2	18:Do:293:VAL:HG12	1.67	0.94
13:Cx:205:THR:HB	14:Cy:32:THR:HG23	1.47	0.94
13:Bg:205:THR:HB	14:Bh:32:THR:HG23	1.47	0.94
5:AZ:238:GLN:HE22	6:Az:428:GLN:NE2	1.66	0.94
21:EA:14:GLU:CB	7:EK:306:THR:HG21	1.97	0.94
2:3:205:ASN:HD22	7:Et:194:ARG:HH12	1.12	0.93
6:A2:37:GLU:HG2	5:P:119:GLN:HE22	1.29	0.93
13:Bb:205:THR:HB	14:Bc:32:THR:HG23	1.47	0.93
2:y:288:ALA:HB3	7:Er:192:PHE:HD1	1.29	0.93
13:Cx:362:ASN:HD22	18:DU:89:ILE:HD11	1.30	0.93
13:CT:205:THR:HB	14:CU:32:THR:HG23	1.47	0.93
6:Aw:434:LEU:HD12	5:Q:231:LEU:HD13	1.47	0.93
13:A8:362:ASN:HD22	18:Dc:89:ILE:HD11	1.30	0.93
13:CY:205:THR:HB	14:CZ:32:THR:HG23	1.47	0.93
3:7:64:LEU:CD1	7:EY:148:PHE:CE1	2.49	0.93
13:BW:205:THR:HB	14:BX:32:THR:HG23	1.47	0.93
13:C8:362:ASN:HD22	18:DY:89:ILE:HD11	1.30	0.93
6:Aw:46:LEU:HD11	5:W:150:ILE:CG1	1.98	0.93
19:Da:208:ASP:OD2	18:Dc:293:VAL:HG12	1.67	0.92
5:AZ:163:ARG:NH1	6:Az:383:ASN:O	2.00	0.92
6:Ax:371:THR:HG22	5:S:161:ARG:NH1	1.79	0.92
13:BR:205:THR:HB	14:BS:32:THR:HG23	1.47	0.92
6:A2:42:TYR:CD2	5:P:187:PRO:CB	2.50	0.92
2:1:189:ILE:HD11	7:Eh:193:VAL:N	1.85	0.92
6:Ax:49:ASN:HD21	5:X:218:SER:CB	1.83	0.92
5:AZ:238:GLN:HE22	6:Az:428:GLN:HE21	0.95	0.92
6:A1:433:ILE:HD11	5:Aa:241:TYR:OH	1.69	0.92
6:A2:42:TYR:CE2	5:P:187:PRO:HB3	2.06	0.92
5:AZ:187:PRO:CB	6:Az:42:TYR:CE1	2.53	0.92
2:y:206:PRO:CB	7:Ep:192:PHE:CD2	2.52	0.91
6:A3:49:ASN:ND2	5:AW:218:SER:HB3	1.84	0.91
5:AY:241:TYR:OH	6:Ay:433:ILE:HD11	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AY:226:ASN:HD21	6:Ax:13:GLN:HE22	1.13	0.91
5:AZ:232:VAL:HG11	6:Ay:6:LEU:HD13	1.50	0.91
6:Ax:371:THR:HG22	5:S:161:ARG:NH2	1.84	0.91
3:4:15:TRP:CG	7:Er:148:PHE:HE2	1.88	0.91
2:y:189:ILE:HD11	7:Ep:192:PHE:CD1	2.06	0.91
2:3:205:ASN:HD22	7:Et:194:ARG:NH1	1.69	0.90
5:Aa:168:ASN:HD21	6:Au:372:GLN:HE21	1.19	0.90
6:Az:371:THR:HG22	5:U:161:ARG:CZ	2.01	0.90
5:Aa:231:LEU:HD13	6:Au:434:LEU:CD1	2.02	0.90
22:e:202:PGT:H222	2:z:96:LEU:HD21	1.52	0.90
5:Aa:231:LEU:HD13	6:Au:434:LEU:HD12	1.54	0.90
5:AZ:92:ALA:CB	6:Ao:47:PHE:O	2.21	0.89
6:E:426:HIS:HE1	6:J:16:LEU:HD12	1.37	0.89
6:Ay:59:GLN:OE1	5:T:219:MET:HE1	1.73	0.89
7:AD:341:ASN:ND2	7:EK:366:SER:H	1.69	0.89
6:A1:427:ASN:ND2	5:P:235:ILE:HG21	1.88	0.89
5:AY:187:PRO:HB2	6:Ay:42:TYR:CD1	2.08	0.89
20:D6:10:HIS:CB	7:E3:372:THR:CG2	2.50	0.89
5:AP:161:ARG:NH1	5:a:196:THR:HG22	1.89	0.88
6:As:46:LEU:HD11	5:S:150:ILE:HG13	1.54	0.88
5:AZ:235:ILE:HG23	6:Ay:427:ASN:ND2	1.88	0.88
5:AZ:241:TYR:OH	6:Az:433:ILE:HD11	1.74	0.88
5:Aa:231:LEU:CD1	6:Au:434:LEU:HD11	2.03	0.88
6:Aw:434:LEU:HD11	5:Q:231:LEU:CD1	2.03	0.87
6:Az:372:GLN:HE21	5:U:168:ASN:CG	1.80	0.87
3:7:89:TYR:CD2	7:Ed:190:SER:HB2	2.09	0.87
5:AZ:187:PRO:HB2	6:Az:42:TYR:CE1	2.08	0.87
5:Aa:235:ILE:CG2	6:Az:427:ASN:ND2	2.38	0.87
2:1:189:ILE:HD11	7:Eh:193:VAL:CA	2.03	0.87
6:A2:431:GLN:NE2	5:Q:239:ARG:NH2	2.23	0.87
2:1:189:ILE:CD1	7:Eh:192:PHE:O	2.18	0.87
6:Ax:49:ASN:ND2	5:X:218:SER:CB	2.37	0.87
5:AY:235:ILE:HG21	6:Ax:427:ASN:ND2	1.90	0.87
5:AZ:119:GLN:NE2	6:Az:35:ARG:NH2	2.23	0.87
7:D5:374:ASN:ND2	20:D7:7:ASP:CB	2.38	0.87
11:t:87:ILE:HD11	22:t:202:PGT:H182	1.55	0.86
10:n:157:GLU:CG	17:BG:76:LYS:NZ	2.37	0.86
6:Aw:434:LEU:CD1	5:Q:231:LEU:HD13	2.04	0.86
6:Ay:43:SER:OG	5:T:98:GLU:HG3	1.74	0.86
6:Aw:434:LEU:CD1	5:Q:231:LEU:CD1	2.53	0.86
3:7:71:GLN:NE2	7:Eb:151:SER:HB2	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:71:GLN:HG2	7:EX:152:GLN:OE1	1.74	0.86
6:Ay:371:THR:HG22	5:T:161:ARG:HH12	1.08	0.85
6:A2:431:GLN:NE2	5:Q:239:ARG:HH22	1.74	0.85
6:A2:59:GLN:CD	5:W:219:MET:HE3	2.01	0.85
6:A2:62:GLN:OE1	5:P:131:SER:O	1.95	0.85
20:D8:8:GLY:HA2	7:EM:374:ASN:OD1	1.76	0.85
2:1:189:ILE:CD1	7:Eh:193:VAL:N	2.38	0.85
5:AZ:119:GLN:HE21	6:Az:35:ARG:HH21	1.24	0.85
8:f:5:PHE:CE2	22:v:202:PGT:H31	2.11	0.85
18:DH:283:ARG:NH2	19:DK:105:GLN:O	2.10	0.85
5:AZ:92:ALA:HB2	6:Ao:47:PHE:O	1.75	0.85
18:DL:283:ARG:NH2	19:DO:105:GLN:O	2.10	0.85
6:Av:434:LEU:HD11	5:P:231:LEU:CD1	2.07	0.85
18:CG:283:ARG:NH2	19:DC:105:GLN:O	2.10	0.85
5:AY:235:ILE:HG22	6:Ax:427:ASN:ND2	1.88	0.85
5:Aa:150:ILE:HG13	6:Ap:46:LEU:HD11	1.57	0.85
18:DT:283:ARG:NH2	19:DW:105:GLN:O	2.10	0.85
18:Dj:283:ARG:NH2	19:Dm:105:GLN:O	2.10	0.84
3:4:89:TYR:CE2	7:Eq:188:LYS:HB2	2.12	0.84
22:e:202:PGT:H222	2:z:96:LEU:CD2	2.07	0.84
6:A2:431:GLN:HE21	5:Q:239:ARG:NH2	1.76	0.84
3:4:71:GLN:OE1	7:Es:151:SER:CB	2.25	0.84
18:DD:283:ARG:NH2	19:DG:105:GLN:O	2.10	0.84
18:DP:283:ARG:NH2	19:DS:105:GLN:O	2.10	0.84
18:Db:283:ARG:NH2	19:De:105:GLN:O	2.10	0.84
18:Df:283:ARG:NH2	19:Di:105:GLN:O	2.09	0.84
6:Aw:59:GLN:NE2	5:Q:216:ARG:NH2	2.26	0.84
5:Aa:226:ASN:HD21	6:Az:13:GLN:HE22	1.21	0.84
18:Dr:283:ARG:NH2	19:Du:105:GLN:O	2.10	0.84
5:AZ:228:THR:HG23	6:At:433:ILE:CD1	2.08	0.84
6:Ad:105:ARG:NH1	6:Ad:396:GLU:OE2	2.09	0.84
20:D8:3:LEU:CB	7:EM:319:SER:HB3	2.08	0.84
11:v:40:ALA:CB	23:v:201:XKP:O	2.23	0.83
18:Dn:283:ARG:NH2	19:Dq:105:GLN:O	2.10	0.83
5:AZ:119:GLN:NE2	6:Az:37:GLU:HG2	1.93	0.83
5:Aa:231:LEU:HD11	6:Au:434:LEU:HD11	1.61	0.83
18:DX:283:ARG:NH2	19:Da:105:GLN:O	2.10	0.83
18:Dv:283:ARG:NH2	19:Dy:105:GLN:O	2.10	0.83
2:1:189:ILE:HD11	7:Eh:193:VAL:HA	1.59	0.83
2:1:206:PRO:HG3	7:Ei:192:PHE:CE2	2.11	0.83
6:Ax:371:THR:HG21	5:S:161:ARG:NH1	1.90	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A1:13:GLN:HE22	5:P:226:ASN:HD21	1.26	0.82
17:BL:226:ARG:HD2	13:BR:369:ILE:O	1.80	0.82
17:BQ:226:ARG:HD2	13:BW:369:ILE:O	1.80	0.82
17:Bk:226:ARG:HD2	13:Bq:369:ILE:O	1.80	0.82
3:6:85:PRO:HD3	7:Ef:192:PHE:CZ	2.14	0.82
5:V:58:GLN:NE2	17:CA:76:LYS:NZ	2.28	0.82
17:CI:226:ARG:HD2	13:A8:369:ILE:O	1.80	0.82
17:Bp:226:ARG:HD2	13:Bv:369:ILE:O	1.80	0.82
13:B7:369:ILE:O	17:CA:226:ARG:HD2	1.80	0.82
6:A3:42:TYR:CD2	5:Q:187:PRO:HB2	2.14	0.82
6:A3:433:ILE:HD11	5:Q:241:TYR:OH	1.79	0.82
17:A7:226:ARG:HD2	13:BC:369:ILE:O	1.80	0.82
6:A1:428:GLN:HE21	5:Aa:238:GLN:HE22	1.25	0.82
6:Ax:46:LEU:CD1	5:X:150:ILE:HG13	2.10	0.82
17:CF:226:ARG:HD2	13:CO:369:ILE:O	1.80	0.82
13:CJ:369:ILE:O	17:C7:226:ARG:HD2	1.80	0.82
6:A2:42:TYR:HE1	6:A2:55:GLY:HA3	1.45	0.81
6:As:46:LEU:CD1	5:S:150:ILE:HG13	2.10	0.81
5:AZ:148:ILE:HG22	6:Az:386:SER:HA	1.60	0.81
5:Aa:82:THR:OG1	6:Au:48:THR:HG21	1.78	0.81
12:x:68:GLN:OE1	7:En:152:GLN:HG2	1.79	0.81
13:CB:369:ILE:O	17:B5:226:ARG:HD2	1.80	0.81
17:BV:226:ARG:HD2	13:Bb:369:ILE:O	1.80	0.81
2:z:197:THR:CB	7:Eb:194:ARG:HG2	2.10	0.81
17:Bf:226:ARG:HD2	13:Bl:369:ILE:O	1.80	0.81
13:B1:369:ILE:O	17:Bu:226:ARG:HD2	1.80	0.81
3:6:68:TRP:CZ2	7:Ef:148:PHE:CZ	2.67	0.81
6:Az:48:THR:CG2	5:U:82:THR:OG1	2.29	0.81
17:Ch:226:ARG:HD2	13:Cn:369:ILE:O	1.80	0.81
17:BG:226:ARG:HD2	13:BM:369:ILE:O	1.80	0.81
17:Cm:226:ARG:HD2	13:Cs:369:ILE:O	1.80	0.81
6:Av:434:LEU:HD12	5:P:231:LEU:HD13	1.61	0.81
6:Ax:47:PHE:CE1	5:X:93:LEU:HD11	2.14	0.81
17:CS:226:ARG:HD2	13:CY:369:ILE:O	1.80	0.81
17:CX:226:ARG:HD2	13:Cd:369:ILE:O	1.80	0.81
17:Cc:226:ARG:HD2	13:Ci:369:ILE:O	1.80	0.81
5:AY:227:VAL:CG2	6:As:430:GLN:HE21	1.94	0.81
5:Aa:235:ILE:HG21	6:Az:427:ASN:HD21	1.41	0.81
6:E:426:HIS:CE1	6:J:16:LEU:HD12	2.16	0.81
17:CN:226:ARG:HD2	13:CT:369:ILE:O	1.80	0.81
2:y:82:ASP:HB3	2:y:167:THR:HG23	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:88:LEU:O	7:Eh:192:PHE:CE1	2.34	0.80
17:C2:226:ARG:HD2	13:C8:369:ILE:O	1.80	0.80
13:B6:369:ILE:O	17:Bz:226:ARG:HD2	1.80	0.80
17:BB:226:ARG:HD2	13:BH:369:ILE:O	1.80	0.80
20:D6:10:HIS:CB	7:E3:372:THR:HG21	2.09	0.80
7:AC:342:GLN:NE2	7:ER:327:ASN:ND2	2.29	0.80
17:Ba:226:ARG:HD2	13:Bg:369:ILE:O	1.80	0.80
6:A1:427:ASN:ND2	5:P:235:ILE:CG2	2.45	0.80
6:A3:429:LEU:HD21	5:Q:238:GLN:HG3	1.63	0.80
5:AZ:238:GLN:HG3	6:Az:429:LEU:HD21	1.64	0.80
17:Cr:226:ARG:HD2	13:Cx:369:ILE:O	1.80	0.80
6:Ay:59:GLN:CD	5:T:219:MET:HE1	2.06	0.80
6:A2:42:TYR:CE1	6:A2:55:GLY:HA3	2.17	0.80
6:Aw:59:GLN:HE22	5:Q:216:ARG:HH22	1.27	0.80
12:x:76:ALA:CB	7:Eo:152:GLN:HE21	1.95	0.80
3:6:85:PRO:HD3	7:Ef:192:PHE:CE2	2.17	0.80
6:A2:428:GLN:HE21	5:P:238:GLN:HE22	1.29	0.79
6:A3:371:THR:HG22	5:X:161:ARG:CZ	2.12	0.79
6:Ax:47:PHE:HE1	5:X:93:LEU:CD1	1.96	0.79
2:y:207:GLU:OE2	7:Ep:194:ARG:NH1	2.15	0.79
17:Cw:226:ARG:HD2	13:C3:369:ILE:O	1.80	0.79
5:AZ:187:PRO:CB	6:Az:42:TYR:CD1	2.63	0.79
6:Av:434:LEU:CD1	5:P:231:LEU:HD13	2.12	0.79
6:Ay:372:GLN:NE2	5:T:168:ASN:OD1	2.15	0.79
7:AC:342:GLN:NE2	7:ER:327:ASN:HD22	1.80	0.79
6:A3:427:ASN:HD21	5:S:235:ILE:HG21	1.47	0.79
5:AP:161:ARG:HH12	5:a:196:THR:HG22	1.47	0.79
6:A3:433:ILE:HD11	5:Q:241:TYR:CE1	2.18	0.79
6:A2:39:ALA:HB1	5:P:190:GLN:HA	1.65	0.78
13:BM:334:ARG:HD3	13:BR:353:GLU:HG2	1.66	0.78
6:A2:431:GLN:HE21	5:Q:239:ARG:HH22	1.29	0.78
6:Ay:59:GLN:HE22	5:T:216:ARG:HH21	1.30	0.78
13:BH:334:ARG:HD3	13:BM:353:GLU:HG2	1.66	0.78
5:AY:161:ARG:CZ	6:As:371:THR:HG22	2.14	0.78
6:Au:46:LEU:HD12	5:U:150:ILE:HG13	1.64	0.78
17:A7:277:GLY:O	17:BB:340:PRO:CB	2.32	0.78
13:BC:334:ARG:HD3	13:BH:353:GLU:HG2	1.66	0.78
17:BL:277:GLY:O	17:BQ:340:PRO:CB	2.32	0.78
13:BR:334:ARG:HD3	13:BW:353:GLU:HG2	1.66	0.78
7:En:163:ARG:NH2	7:Eo:184:LEU:O	2.17	0.78
13:B1:205:THR:CB	14:B2:32:THR:HG23	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ba:277:GLY:O	17:Bf:340:PRO:CB	2.32	0.78
13:Bv:205:THR:CB	14:Bw:32:THR:HG23	2.14	0.78
20:D8:8:GLY:CA	7:EM:374:ASN:OD1	2.30	0.78
7:EX:146:MET:HB2	7:EX:150:VAL:HG21	1.66	0.78
6:A2:427:ASN:HD22	5:Q:235:ILE:HG21	1.46	0.78
5:Aa:168:ASN:HD21	6:Au:372:GLN:NE2	1.80	0.78
17:CI:277:GLY:O	17:A7:340:PRO:CB	2.32	0.78
13:Bb:205:THR:CB	14:Bc:32:THR:HG23	2.14	0.78
17:Cw:277:GLY:O	17:C2:340:PRO:CB	2.32	0.78
13:BW:205:THR:CB	14:BX:32:THR:HG23	2.14	0.78
20:D6:7:ASP:CB	7:E4:318:ARG:HG2	2.14	0.78
14:B8:32:THR:HG23	13:B6:205:THR:CB	2.14	0.78
13:BW:334:ARG:HD3	13:Bb:353:GLU:HG2	1.66	0.78
6:Ax:46:LEU:HD11	5:X:150:ILE:HG13	1.64	0.78
17:C2:277:GLY:O	17:C7:340:PRO:CB	2.32	0.78
17:BG:277:GLY:O	17:BL:340:PRO:CB	2.32	0.78
6:A3:385:GLY:O	5:Q:163:ARG:HD2	1.82	0.77
5:AZ:238:GLN:NE2	6:Az:428:GLN:HE21	1.77	0.77
17:CF:180:ARG:NH2	13:CO:188:ASP:OD1	2.13	0.77
17:BQ:277:GLY:O	17:BV:340:PRO:CB	2.32	0.77
17:Bf:277:GLY:O	17:Bk:340:PRO:CB	2.32	0.77
6:A2:42:TYR:HE2	5:P:187:PRO:HB3	1.50	0.77
13:A8:334:ARG:HD3	13:BC:353:GLU:HG2	1.66	0.77
13:BR:205:THR:CB	14:BS:32:THR:HG23	2.14	0.77
13:Bg:205:THR:CB	14:Bh:32:THR:HG23	2.14	0.77
17:Bp:277:GLY:O	17:Bu:340:PRO:CB	2.32	0.77
6:A2:433:ILE:CD1	5:P:241:TYR:OH	2.30	0.77
13:CT:205:THR:CB	14:CU:32:THR:HG23	2.14	0.77
2:1:189:ILE:HD12	7:Eh:192:PHE:C	2.06	0.77
13:CO:205:THR:CB	14:CP:32:THR:HG23	2.14	0.77
13:CY:205:THR:CB	14:CZ:32:THR:HG23	2.14	0.77
17:BV:277:GLY:O	17:Ba:340:PRO:CB	2.32	0.77
13:Bb:334:ARG:HD3	13:Bg:353:GLU:HG2	1.66	0.77
13:Bq:205:THR:CB	14:Br:32:THR:HG23	2.14	0.77
7:AC:342:GLN:HE22	7:ER:327:ASN:ND2	1.83	0.77
2:y:206:PRO:CA	7:Ep:192:PHE:HE2	1.80	0.77
17:BB:277:GLY:O	17:BG:340:PRO:CB	2.32	0.77
17:Bu:277:GLY:O	17:Bz:340:PRO:CB	2.32	0.77
5:Aa:123:ASN:HD21	5:Aa:127:THR:HB	1.50	0.77
2:z:189:ILE:HD11	7:EX:190:SER:HB2	1.65	0.77
17:Ch:277:GLY:O	17:Cm:340:PRO:CB	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AY:216:ARG:HH21	6:As:59:GLN:NE2	1.81	0.77
6:Ay:50:ALA:O	6:Ay:51:LYS:C	2.28	0.77
13:CB:205:THR:CB	14:CC:32:THR:HG23	2.14	0.77
17:CX:277:GLY:O	17:Cc:340:PRO:CB	2.32	0.77
17:CF:277:GLY:O	17:CN:340:PRO:CB	2.32	0.77
13:CJ:334:ARG:HD3	13:A8:353:GLU:HG2	1.66	0.77
13:A8:205:THR:CB	14:A9:32:THR:HG23	2.14	0.77
17:Cm:277:GLY:O	17:Cr:340:PRO:CB	2.32	0.77
13:Cs:205:THR:CB	14:Ct:32:THR:HG23	2.14	0.77
13:C8:205:THR:CB	14:C9:32:THR:HG23	2.14	0.77
6:A3:62:GLN:OE1	5:Q:131:SER:O	2.03	0.77
13:B7:205:THR:CB	14:CK:32:THR:HG23	2.14	0.77
17:CA:277:GLY:O	17:CF:340:PRO:CB	2.32	0.77
13:CJ:205:THR:CB	14:A4:32:THR:HG23	2.14	0.77
13:Cd:205:THR:CB	14:Ce:32:THR:HG23	2.14	0.77
13:Cn:334:ARG:HD3	13:Cs:353:GLU:HG2	1.66	0.77
13:Cs:334:ARG:HD3	13:Cx:353:GLU:HG2	1.66	0.77
20:D8:2:GLY:C	7:EL:374:ASN:OD1	2.28	0.77
17:CI:340:PRO:CB	17:C7:277:GLY:O	2.32	0.77
17:Cr:277:GLY:O	17:Cw:340:PRO:CB	2.32	0.77
13:B1:226:VAL:HB	13:B1:236:PHE:HB3	1.67	0.77
13:BC:205:THR:CB	14:BD:32:THR:HG23	2.14	0.77
17:BG:180:ARG:NH2	13:BM:188:ASP:OD1	2.13	0.77
13:BM:205:THR:CB	14:BN:32:THR:HG23	2.14	0.77
13:Bl:205:THR:CB	14:Bm:32:THR:HG23	2.14	0.77
6:A2:429:LEU:HD21	5:P:238:GLN:HG3	1.67	0.76
13:B7:334:ARG:HD3	13:CO:353:GLU:HG2	1.66	0.76
17:CA:340:PRO:CB	17:B5:277:GLY:O	2.32	0.76
17:CS:277:GLY:O	17:CX:340:PRO:CB	2.32	0.76
13:Ci:334:ARG:HD3	13:Cn:353:GLU:HG2	1.66	0.76
13:Bg:334:ARG:HD3	13:Bl:353:GLU:HG2	1.66	0.76
17:Bk:277:GLY:O	17:Bp:340:PRO:CB	2.32	0.76
13:Bq:226:VAL:HB	13:Bq:236:PHE:HB3	1.67	0.76
5:Aa:235:ILE:CG2	6:Az:427:ASN:HD21	1.97	0.76
13:B7:69:PRO:O	16:CM:6:PRO:CB	2.34	0.76
13:A8:69:PRO:O	16:BA:6:PRO:CB	2.34	0.76
13:B6:226:VAL:HB	13:B6:236:PHE:HB3	1.68	0.76
13:Bv:226:VAL:HB	13:Bv:236:PHE:HB3	1.68	0.76
11:v:37:LEU:HD23	23:v:201:XKP:C	2.16	0.76
13:B7:353:GLU:HG2	13:CB:334:ARG:HD3	1.66	0.76
16:B0:6:PRO:CB	13:B6:69:PRO:O	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CB:226:VAL:HB	13:CB:236:PHE:HB3	1.68	0.76
16:CH:6:PRO:CB	13:C8:69:PRO:O	2.34	0.76
13:Cd:334:ARG:HD3	13:Ci:353:GLU:HG2	1.66	0.76
17:Cm:180:ARG:NH2	13:Cs:188:ASP:OD1	2.13	0.76
13:Cx:334:ARG:HD3	13:C3:353:GLU:HG2	1.66	0.76
13:C3:205:THR:CB	14:C4:32:THR:HG23	2.14	0.76
13:B1:69:PRO:O	16:B4:6:PRO:CB	2.34	0.76
13:BH:205:THR:CB	14:BI:32:THR:HG23	2.14	0.76
13:B7:188:ASP:OD1	17:CA:180:ARG:NH2	2.13	0.76
14:CK:157:ASN:OD1	14:CU:259:LEU:HD12	1.86	0.76
13:CO:334:ARG:HD3	13:CT:353:GLU:HG2	1.66	0.76
14:CP:157:ASN:OD1	14:CZ:259:LEU:HD12	1.86	0.76
14:CU:157:ASN:OD1	14:Ce:259:LEU:HD12	1.86	0.76
13:CY:69:PRO:O	16:Cb:6:PRO:CB	2.34	0.76
17:Cc:277:GLY:O	17:Ch:340:PRO:CB	2.32	0.76
13:Cn:205:THR:CB	14:Co:32:THR:HG23	2.14	0.76
13:Cs:69:PRO:O	16:Cv:6:PRO:CB	2.34	0.76
13:BC:69:PRO:O	16:BF:6:PRO:CB	2.34	0.76
6:A2:6:LEU:CD1	5:Q:232:VAL:HG11	2.15	0.76
6:A2:42:TYR:CE2	5:P:187:PRO:HB2	2.15	0.76
14:A4:259:LEU:HD12	14:C4:157:ASN:OD1	1.86	0.76
13:CY:334:ARG:HD3	13:Cd:353:GLU:HG2	1.65	0.76
13:Ci:205:THR:CB	14:Cj:32:THR:HG23	2.14	0.76
14:Cj:157:ASN:OD1	14:Ct:259:LEU:HD12	1.86	0.76
13:Cn:69:PRO:O	16:Cq:6:PRO:CB	2.34	0.76
13:C3:69:PRO:O	16:C6:6:PRO:CB	2.34	0.76
14:BD:157:ASN:OD1	14:BN:259:LEU:HD12	1.86	0.76
14:BI:157:ASN:OD1	14:BS:259:LEU:HD12	1.86	0.76
14:BN:157:ASN:OD1	14:BX:259:LEU:HD12	1.86	0.76
13:Bl:226:VAL:HB	13:Bl:236:PHE:HB3	1.68	0.76
7:Ee:206:THR:HA	7:Ee:242:GLN:HG2	1.66	0.76
6:A3:371:THR:HG22	5:X:161:ARG:NH1	2.00	0.76
2:z:206:PRO:HD3	7:EX:192:PHE:HB3	1.67	0.76
13:B7:226:VAL:HB	13:B7:236:PHE:HB3	1.68	0.76
13:CB:353:GLU:HG2	13:B6:334:ARG:HD3	1.66	0.76
14:CC:157:ASN:OD1	14:CP:259:LEU:HD12	1.86	0.76
13:CJ:353:GLU:HG2	13:C8:334:ARG:HD3	1.66	0.76
13:CO:69:PRO:O	16:CR:6:PRO:CB	2.34	0.76
13:BH:69:PRO:O	16:BK:6:PRO:CB	2.34	0.76
13:Bg:69:PRO:O	16:Bj:6:PRO:CB	2.34	0.76
13:Bq:69:PRO:O	16:Bt:6:PRO:CB	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Av:434:LEU:HD11	5:P:231:LEU:HD11	1.67	0.76
17:CN:277:GLY:O	17:CS:340:PRO:CB	2.32	0.76
13:Cd:69:PRO:O	16:Cg:6:PRO:CB	2.34	0.76
13:Ci:69:PRO:O	16:Cl:6:PRO:CB	2.34	0.76
13:Cx:205:THR:CB	14:Cy:32:THR:HG23	2.14	0.76
14:Cy:157:ASN:OD1	14:C9:259:LEU:HD12	1.86	0.76
13:C3:334:ARG:HD3	13:C8:353:GLU:HG2	1.66	0.76
13:BR:226:VAL:HB	13:BR:236:PHE:HB3	1.67	0.76
14:BS:157:ASN:OD1	14:Bc:259:LEU:HD12	1.86	0.76
13:BW:226:VAL:HB	13:BW:236:PHE:HB3	1.68	0.76
13:Bl:69:PRO:O	16:Bo:6:PRO:CB	2.34	0.76
6:Au:49:ASN:HD22	5:U:218:SER:CB	1.97	0.76
13:CB:69:PRO:O	16:CE:6:PRO:CB	2.34	0.76
14:CZ:157:ASN:OD1	14:Cj:259:LEU:HD12	1.86	0.76
17:B5:340:PRO:CB	17:Bz:277:GLY:O	2.32	0.76
13:Bb:226:VAL:HB	13:Bb:236:PHE:HB3	1.68	0.76
13:Bg:226:VAL:HB	13:Bg:236:PHE:HB3	1.68	0.76
17:Bk:180:ARG:NH2	13:Bq:188:ASP:OD1	2.13	0.76
13:Bv:69:PRO:O	16:By:6:PRO:CB	2.34	0.76
7:EX:163:ARG:NH2	7:Eb:184:LEU:O	2.19	0.76
6:A1:6:LEU:CD1	5:P:232:VAL:HG11	2.15	0.76
6:A3:48:THR:HG23	5:X:82:THR:OG1	1.83	0.76
5:AY:238:GLN:NE2	6:Ay:428:GLN:HE21	1.84	0.76
14:A9:157:ASN:OD1	14:BI:259:LEU:HD12	1.86	0.76
13:CT:69:PRO:O	16:CW:6:PRO:CB	2.34	0.76
13:CT:226:VAL:HB	13:CT:236:PHE:HB3	1.68	0.76
13:CT:334:ARG:HD3	13:CY:353:GLU:HG2	1.66	0.76
13:BR:69:PRO:O	16:BU:6:PRO:CB	2.34	0.76
13:BW:69:PRO:O	16:BZ:6:PRO:CB	2.34	0.76
5:AY:243:MET:SD	6:Ax:434:LEU:HD11	2.25	0.76
6:Aq:52:THR:HG21	6:Av:60:ALA:HB1	1.67	0.76
14:B8:157:ASN:OD1	14:CK:259:LEU:HD12	1.86	0.76
13:CO:226:VAL:HB	13:CO:236:PHE:HB3	1.68	0.76
13:CY:226:VAL:HB	13:CY:236:PHE:HB3	1.67	0.76
13:Cx:69:PRO:O	16:C1:6:PRO:CB	2.34	0.76
13:BM:226:VAL:HB	13:BM:236:PHE:HB3	1.67	0.76
14:BX:157:ASN:OD1	14:Bh:259:LEU:HD12	1.86	0.76
13:Bl:334:ARG:HD3	13:Bq:353:GLU:HG2	1.66	0.76
6:Av:371:THR:HG22	5:P:161:ARG:CZ	2.16	0.75
6:Az:59:GLN:HE22	5:U:216:ARG:HH21	1.32	0.75
13:CJ:69:PRO:O	16:A6:6:PRO:CB	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Ce:157:ASN:OD1	14:Co:259:LEU:HD12	1.86	0.75
17:BB:180:ARG:NH2	13:BH:188:ASP:OD1	2.13	0.75
13:BM:69:PRO:O	16:BP:6:PRO:CB	2.34	0.75
14:Bc:157:ASN:OD1	14:Bm:259:LEU:HD12	1.86	0.75
7:D5:372:THR:HG21	20:D7:7:ASP:H	1.50	0.75
3:5:71:GLN:HE22	7:Ea:151:SER:HB2	1.51	0.75
13:B1:334:ARG:HD3	13:B6:353:GLU:HG2	1.66	0.75
13:B1:353:GLU:HG2	13:Bv:334:ARG:HD3	1.66	0.75
17:Bf:180:ARG:NH2	13:Bl:188:ASP:OD1	2.13	0.75
11:t:87:ILE:HD12	22:t:202:PGT:H352	1.67	0.75
13:Cd:226:VAL:HB	13:Cd:236:PHE:HB3	1.68	0.75
13:BH:226:VAL:HB	13:BH:236:PHE:HB3	1.68	0.75
14:Co:157:ASN:OD1	14:Cy:259:LEU:HD12	1.86	0.75
17:BL:180:ARG:NH2	13:BR:188:ASP:OD1	2.13	0.75
2:1:92:LEU:HB2	22:t:202:PGT:H221	1.68	0.75
6:Ax:371:THR:CG2	5:S:161:ARG:NH2	2.49	0.75
14:CC:259:LEU:HD12	14:B2:157:ASN:OD1	1.86	0.75
14:A4:157:ASN:OD1	14:BD:259:LEU:HD12	1.86	0.75
14:A9:259:LEU:HD12	14:C9:157:ASN:OD1	1.86	0.75
13:Ci:226:VAL:HB	13:Ci:236:PHE:HB3	1.68	0.75
5:Aa:232:VAL:HG11	6:Az:6:LEU:CD1	2.13	0.75
13:Bq:334:ARG:HD3	13:Bv:353:GLU:HG2	1.66	0.75
5:A:140:GLU:OE2	17:BV:76:LYS:NZ	2.20	0.75
13:Cn:226:VAL:HB	13:Cn:236:PHE:HB3	1.67	0.75
13:BC:226:VAL:HB	13:BC:236:PHE:HB3	1.68	0.75
14:Bh:157:ASN:OD1	14:Br:259:LEU:HD12	1.86	0.75
3:6:64:LEU:HD21	7:Ee:148:PHE:HE2	1.51	0.75
6:Av:434:LEU:CD1	5:P:231:LEU:CD1	2.64	0.75
2:y:206:PRO:N	7:Ep:192:PHE:CD2	2.55	0.75
13:CB:188:ASP:OD1	17:B5:180:ARG:NH2	2.13	0.75
17:Bp:180:ARG:NH2	13:Bv:188:ASP:OD1	2.13	0.75
13:A8:226:VAL:HB	13:A8:236:PHE:HB3	1.68	0.75
11:t:43:ASN:HD21	22:t:202:PGT:H11	1.49	0.74
13:CJ:226:VAL:HB	13:CJ:236:PHE:HB3	1.67	0.74
17:A7:180:ARG:NH2	13:BC:188:ASP:OD1	2.13	0.74
13:Cs:226:VAL:HB	13:Cs:236:PHE:HB3	1.68	0.74
13:Bb:69:PRO:O	16:Be:6:PRO:CB	2.34	0.74
5:AZ:235:ILE:HG21	6:Ay:427:ASN:HD21	1.50	0.74
5:Aa:231:LEU:CD1	6:Au:434:LEU:CD1	2.61	0.74
6:Au:49:ASN:HD22	5:U:218:SER:HB3	1.51	0.74
14:Ct:157:ASN:OD1	14:C4:259:LEU:HD12	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cx:226:VAL:HB	13:Cx:236:PHE:HB3	1.67	0.74
14:Bm:157:ASN:OD1	14:Bw:259:LEU:HD12	1.86	0.74
14:B8:259:LEU:HD12	14:Bw:157:ASN:OD1	1.86	0.74
17:Ch:180:ARG:NH2	13:Cn:188:ASP:OD1	2.13	0.74
13:C3:226:VAL:HB	13:C3:236:PHE:HB3	1.67	0.74
13:C8:226:VAL:HB	13:C8:236:PHE:HB3	1.68	0.74
3:7:71:GLN:HE22	7:Eb:151:SER:HB2	1.52	0.74
14:BN:127:LYS:HB2	14:Bc:245:MET:HE3	1.69	0.74
14:BS:127:LYS:HB2	14:Bh:245:MET:HE3	1.70	0.74
14:BX:127:LYS:HB2	14:Bm:245:MET:HE3	1.70	0.74
14:Bc:127:LYS:HB2	14:Br:245:MET:HE3	1.70	0.74
6:Av:433:ILE:CD1	5:P:228:THR:HG23	2.17	0.74
14:A4:127:LYS:HB2	14:BI:245:MET:HE3	1.70	0.74
14:A9:127:LYS:HB2	14:BN:245:MET:HE3	1.70	0.74
14:A9:245:MET:HE3	14:C4:127:LYS:HB2	1.70	0.74
14:C9:127:LYS:HB2	14:BD:245:MET:HE3	1.70	0.74
7:EY:201:ALA:HB2	7:EY:232:MET:HE1	1.70	0.74
5:AY:187:PRO:CB	6:Ay:42:TYR:CD1	2.71	0.74
6:Ax:371:THR:CG2	5:S:161:ARG:HH12	1.98	0.74
2:y:197:THR:CG2	7:Ea:194:ARG:HG2	2.17	0.74
14:B2:259:LEU:HD12	14:Br:157:ASN:OD1	1.86	0.74
14:BI:127:LYS:HB2	14:BX:245:MET:HE3	1.70	0.74
14:Bh:127:LYS:HB2	14:Bw:245:MET:HE3	1.70	0.74
19:Di:208:ASP:OD2	18:Dk:293:VAL:HG11	1.87	0.74
19:Dm:208:ASP:OD2	18:Do:293:VAL:HG11	1.87	0.74
14:A4:245:MET:HE3	14:Cy:127:LYS:HB2	1.70	0.74
18:DA:293:VAL:HG11	19:Dy:208:ASP:OD2	1.87	0.74
14:B2:245:MET:HE3	14:Bm:127:LYS:HB2	1.70	0.74
14:BD:127:LYS:HB2	14:BS:245:MET:HE3	1.70	0.74
17:Ba:180:ARG:NH2	13:Bg:188:ASP:OD1	2.13	0.74
19:DC:208:ASP:OD2	18:DE:293:VAL:HG11	1.87	0.74
2:2:206:PRO:HG2	7:Ee:194:ARG:HH11	1.51	0.74
1:9:34:TYR:HD2	9:i:39:LYS:HA	1.51	0.74
7:Ek:163:ARG:NH2	7:Ek:228:ALA:O	2.20	0.74
7:E5:258:ALA:HA	7:E5:261:LYS:HD2	1.70	0.74
13:CJ:188:ASP:OD1	17:C7:180:ARG:NH2	2.13	0.73
14:Ct:127:LYS:HB2	14:C9:245:MET:HE3	1.70	0.73
19:DG:208:ASP:OD2	18:DI:293:VAL:HG11	1.87	0.73
19:De:208:ASP:OD2	18:Dg:293:VAL:HG11	1.87	0.73
7:Eu:258:ALA:HA	7:Eu:261:LYS:HD2	1.70	0.73
7:E2:258:ALA:HA	7:E2:261:LYS:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A1:428:GLN:NE2	5:Aa:238:GLN:HE22	1.86	0.73
5:S:50:ASN:HB2	5:S:66:LEU:H	1.52	0.73
13:B6:188:ASP:OD1	17:Bz:180:ARG:NH2	2.13	0.73
19:DS:208:ASP:OD2	18:DU:293:VAL:HG11	1.87	0.73
5:AZ:122:LEU:O	6:Az:356:ASN:CG	2.30	0.73
6:Au:49:ASN:ND2	5:U:218:SER:HB3	2.03	0.73
6:Aw:59:GLN:NE2	5:Q:216:ARG:HH22	1.83	0.73
14:B8:245:MET:HE3	14:Br:127:LYS:HB2	1.70	0.73
11:t:87:ILE:HD13	23:t:201:XKP:C20	2.18	0.73
19:Dq:208:ASP:OD2	18:Ds:293:VAL:HG11	1.87	0.73
7:EU:258:ALA:HA	7:EU:261:LYS:HD2	1.70	0.73
14:Co:127:LYS:HB2	14:C4:245:MET:HE3	1.70	0.73
7:D2:258:ALA:HA	7:D2:261:LYS:HD2	1.70	0.73
7:Ex:258:ALA:HA	7:Ex:261:LYS:HD2	1.71	0.73
7:Ey:258:ALA:HA	7:Ey:261:LYS:HD2	1.70	0.73
7:E1:258:ALA:HA	7:E1:261:LYS:HD2	1.70	0.73
7:E4:258:ALA:HA	7:E4:261:LYS:HD2	1.70	0.73
1:0:138:SER:OG	7:AF:356:MET:HE1	1.89	0.73
14:BX:256:ASN:OD1	14:Bc:245:MET:HE1	1.89	0.73
7:D5:374:ASN:OD1	20:D7:5:ARG:CB	2.36	0.73
7:Ev:258:ALA:HA	7:Ev:261:LYS:HD2	1.70	0.73
6:A1:434:LEU:HD11	5:P:243:MET:SD	2.28	0.73
14:CC:245:MET:HE3	14:Bw:127:LYS:HB2	1.70	0.73
17:CI:180:ARG:NH2	13:A8:188:ASP:OD1	2.13	0.73
14:Ct:256:ASN:OD1	14:Cy:245:MET:HE1	1.89	0.73
14:C4:256:ASN:OD1	14:C9:245:MET:HE1	1.89	0.73
14:BN:256:ASN:OD1	14:BS:245:MET:HE1	1.89	0.73
19:Du:208:ASP:OD2	18:Dw:293:VAL:HG11	1.87	0.73
7:Ei:171:ILE:HG22	7:Ei:177:VAL:HG11	1.68	0.73
14:A4:256:ASN:OD1	14:A9:245:MET:HE1	1.89	0.73
13:B1:188:ASP:OD1	17:Bu:180:ARG:NH2	2.13	0.73
14:BD:256:ASN:OD1	14:BI:245:MET:HE1	1.89	0.73
7:EV:258:ALA:HA	7:EV:261:LYS:HD2	1.70	0.73
14:Cj:127:LYS:HB2	14:Cy:245:MET:HE3	1.70	0.73
14:Cj:256:ASN:OD1	14:Co:245:MET:HE1	1.89	0.73
19:DK:208:ASP:OD2	18:DM:293:VAL:HG11	1.87	0.73
19:Da:208:ASP:OD2	18:Dc:293:VAL:HG11	1.87	0.73
7:D1:258:ALA:HA	7:D1:261:LYS:HD2	1.70	0.73
6:As:6:LEU:HD13	6:Ay:407:VAL:HG11	1.71	0.73
17:C2:180:ARG:NH2	13:C8:188:ASP:OD1	2.13	0.73
14:Bh:256:ASN:OD1	14:Bm:245:MET:HE1	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EK:258:ALA:HA	7:EK:261:LYS:HD2	1.70	0.73
7:EM:258:ALA:HA	7:EM:261:LYS:HD2	1.70	0.73
13:B1:205:THR:HB	14:B2:32:THR:CG2	2.19	0.72
14:BX:256:ASN:CG	14:Bc:245:MET:HE1	2.14	0.72
14:Bm:256:ASN:CG	14:Br:245:MET:HE1	2.14	0.72
19:DW:208:ASP:OD2	18:DY:293:VAL:HG11	1.87	0.72
7:Er:139:ASP:N	7:Er:139:ASP:OD1	2.20	0.72
14:B8:256:ASN:OD1	14:CC:245:MET:HE1	1.89	0.72
14:CK:245:MET:HE3	14:B2:127:LYS:HB2	1.70	0.72
13:CT:205:THR:HB	14:CU:32:THR:CG2	2.19	0.72
14:B2:245:MET:HE1	14:Bw:256:ASN:OD1	1.89	0.72
14:Bc:256:ASN:CG	14:Bh:245:MET:HE1	2.15	0.72
14:Bh:256:ASN:CG	14:Bm:245:MET:HE1	2.15	0.72
14:Bm:256:ASN:OD1	14:Br:245:MET:HE1	1.89	0.72
14:Br:256:ASN:CG	14:Bw:245:MET:HE1	2.14	0.72
13:Bv:205:THR:HB	14:Bw:32:THR:CG2	2.19	0.72
7:EW:258:ALA:HA	7:EW:261:LYS:HD2	1.70	0.72
7:Ef:163:ARG:HA	7:Ef:166:GLN:HE21	1.53	0.72
7:En:220:SER:HA	7:Eo:246:LEU:HD12	1.71	0.72
6:A2:433:ILE:HD11	5:P:241:TYR:CZ	2.23	0.72
5:AY:190:GLN:HA	6:Ay:39:ALA:HB1	1.70	0.72
5:AZ:122:LEU:O	6:Az:356:ASN:ND2	2.22	0.72
6:Ax:371:THR:HG21	5:S:161:ARG:HH12	1.51	0.72
14:B8:256:ASN:CG	14:CC:245:MET:HE1	2.15	0.72
14:A9:256:ASN:OD1	14:BD:245:MET:HE1	1.89	0.72
13:CO:205:THR:HB	14:CP:32:THR:CG2	2.19	0.72
14:CZ:256:ASN:CG	14:Ce:245:MET:HE1	2.15	0.72
14:Ce:127:LYS:HB2	14:Ct:245:MET:HE3	1.70	0.72
13:C8:205:THR:HB	14:C9:32:THR:CG2	2.19	0.72
13:BC:205:THR:HB	14:BD:32:THR:CG2	2.19	0.72
14:BN:256:ASN:CG	14:BS:245:MET:HE1	2.15	0.72
14:BS:256:ASN:CG	14:BX:245:MET:HE1	2.15	0.72
14:Bc:256:ASN:OD1	14:Bh:245:MET:HE1	1.89	0.72
13:B7:206:VAL:HG23	14:CK:36:ALA:HA	1.72	0.72
14:A4:245:MET:HE1	14:C9:256:ASN:OD1	1.89	0.72
14:A9:256:ASN:CG	14:BD:245:MET:HE1	2.14	0.72
14:CK:256:ASN:CG	14:CP:245:MET:HE1	2.15	0.72
14:CZ:256:ASN:OD1	14:Ce:245:MET:HE1	1.89	0.72
14:C4:256:ASN:CG	14:C9:245:MET:HE1	2.15	0.72
13:B1:206:VAL:HG23	14:B2:36:ALA:HA	1.72	0.72
14:BI:256:ASN:CG	14:BN:245:MET:HE1	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BI:256:ASN:OD1	14:BN:245:MET:HE1	1.89	0.72
13:Bb:206:VAL:HG23	14:Bc:36:ALA:HA	1.72	0.72
19:DO:208:ASP:OD2	18:DQ:293:VAL:HG11	1.87	0.72
7:EJ:258:ALA:HA	7:EJ:261:LYS:HD2	1.70	0.72
1:9:34:TYR:CD2	9:i:39:LYS:HA	2.24	0.72
6:A3:6:LEU:CD1	5:S:232:VAL:HG11	2.18	0.72
2:y:206:PRO:CD	7:Ep:192:PHE:HD2	2.02	0.72
14:B8:36:ALA:HA	13:B6:206:VAL:HG23	1.72	0.72
13:CB:206:VAL:HG23	14:CC:36:ALA:HA	1.72	0.72
14:A4:245:MET:HE1	14:C9:256:ASN:CG	2.15	0.72
14:A4:256:ASN:CG	14:A9:245:MET:HE1	2.15	0.72
14:CZ:127:LYS:HB2	14:Co:245:MET:HE3	1.70	0.72
17:Cc:180:ARG:NH2	13:Ci:188:ASP:OD1	2.13	0.72
13:Cn:206:VAL:HG23	14:Co:36:ALA:HA	1.72	0.72
13:Cs:206:VAL:HG23	14:Ct:36:ALA:HA	1.72	0.72
14:Ct:256:ASN:CG	14:Cy:245:MET:HE1	2.14	0.72
14:Cy:256:ASN:CG	14:C4:245:MET:HE1	2.15	0.72
13:C3:206:VAL:HG23	14:C4:36:ALA:HA	1.72	0.72
13:C8:206:VAL:HG23	14:C9:36:ALA:HA	1.71	0.72
14:B2:245:MET:HE1	14:Bw:256:ASN:CG	2.15	0.72
14:BD:256:ASN:CG	14:BI:245:MET:HE1	2.15	0.72
14:BS:256:ASN:OD1	14:BX:245:MET:HE1	1.89	0.72
7:EN:258:ALA:HA	7:EN:261:LYS:HD2	1.70	0.72
7:ES:258:ALA:HA	7:ES:261:LYS:HD2	1.70	0.72
7:Eo:218:VAL:HG21	7:Eo:247:LEU:HB3	1.71	0.72
6:A3:59:GLN:NE2	5:X:219:MET:HE1	2.03	0.72
10:n:102:ASN:HD21	10:n:116:ALA:HB3	1.55	0.72
14:B8:127:LYS:HB2	14:CP:245:MET:HE3	1.70	0.72
14:B8:245:MET:HE1	14:B2:256:ASN:CG	2.15	0.72
13:CJ:206:VAL:HG23	14:A4:36:ALA:HA	1.72	0.72
14:CK:256:ASN:OD1	14:CP:245:MET:HE1	1.89	0.72
14:CP:256:ASN:CG	14:CU:245:MET:HE1	2.15	0.72
14:CP:256:ASN:OD1	14:CU:245:MET:HE1	1.89	0.72
14:CU:127:LYS:HB2	14:Cj:245:MET:HE3	1.69	0.72
13:Ci:206:VAL:HG23	14:Cj:36:ALA:HA	1.72	0.72
13:Cx:206:VAL:HG23	14:Cy:36:ALA:HA	1.72	0.72
13:Bg:206:VAL:HG23	14:Bh:36:ALA:HA	1.72	0.72
13:Bl:206:VAL:HG23	14:Bm:36:ALA:HA	1.72	0.72
14:Br:256:ASN:OD1	14:Bw:245:MET:HE1	1.89	0.72
13:Bv:206:VAL:HG23	14:Bw:36:ALA:HA	1.72	0.72
7:Dz:258:ALA:HA	7:Dz:261:LYS:HD2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E3:258:ALA:HA	7:E3:261:LYS:HD2	1.70	0.72
6:A1:13:GLN:HE22	5:P:226:ASN:ND2	1.87	0.72
5:AX:87:GLN:HE22	5:Y:38:ARG:HH22	1.38	0.72
14:CC:127:LYS:HB2	14:CU:245:MET:HE3	1.70	0.72
13:CO:206:VAL:HG23	14:CP:36:ALA:HA	1.72	0.72
13:CT:206:VAL:HG23	14:CU:36:ALA:HA	1.72	0.72
14:Cy:256:ASN:OD1	14:C4:245:MET:HE1	1.89	0.72
13:C3:205:THR:HB	14:C4:32:THR:CG2	2.19	0.72
13:BM:206:VAL:HG23	14:BN:36:ALA:HA	1.72	0.72
13:BR:205:THR:HB	14:BS:32:THR:CG2	2.19	0.72
13:BR:206:VAL:HG23	14:BS:36:ALA:HA	1.72	0.72
13:Bq:206:VAL:HG23	14:Br:36:ALA:HA	1.72	0.72
7:D4:258:ALA:HA	7:D4:261:LYS:HD2	1.70	0.72
7:EH:258:ALA:HA	7:EH:261:LYS:HD2	1.70	0.72
7:EI:258:ALA:HA	7:EI:261:LYS:HD2	1.70	0.72
7:EL:258:ALA:HA	7:EL:261:LYS:HD2	1.71	0.72
7:ER:258:ALA:HA	7:ER:261:LYS:HD2	1.70	0.72
7:Ew:258:ALA:HA	7:Ew:261:LYS:HD2	1.70	0.72
6:A1:407:VAL:HG11	6:Au:6:LEU:HD13	1.72	0.72
6:At:6:LEU:HD13	6:Az:407:VAL:HG11	1.71	0.72
13:A8:205:THR:HB	14:A9:32:THR:CG2	2.19	0.72
13:A8:206:VAL:HG23	14:A9:36:ALA:HA	1.72	0.72
14:CP:127:LYS:HB2	14:Ce:245:MET:HE3	1.70	0.72
14:Co:256:ASN:CG	14:Ct:245:MET:HE1	2.15	0.72
13:BC:206:VAL:HG23	14:BD:36:ALA:HA	1.72	0.72
13:BH:206:VAL:HG23	14:BI:36:ALA:HA	1.72	0.72
13:BW:206:VAL:HG23	14:BX:36:ALA:HA	1.72	0.72
14:CK:127:LYS:HB2	14:CZ:245:MET:HE3	1.70	0.72
13:CY:206:VAL:HG23	14:CZ:36:ALA:HA	1.72	0.72
13:Cd:206:VAL:HG23	14:Ce:36:ALA:HA	1.72	0.72
14:Cj:256:ASN:CG	14:Co:245:MET:HE1	2.14	0.72
13:Bq:205:THR:HB	14:Br:32:THR:CG2	2.19	0.72
21:EC:7:GLU:CB	7:E5:381:ILE:HG21	2.19	0.72
13:B7:205:THR:HB	14:CK:32:THR:CG2	2.19	0.72
13:Cs:205:THR:HB	14:Ct:32:THR:CG2	2.19	0.72
6:As:46:LEU:HD12	5:S:149:SER:HA	1.72	0.71
14:CC:256:ASN:CG	14:CK:245:MET:HE1	2.14	0.71
14:CU:256:ASN:OD1	14:CZ:245:MET:HE1	1.89	0.71
14:Ce:256:ASN:CG	14:Cj:245:MET:HE1	2.15	0.71
7:D5:258:ALA:HA	7:D5:261:LYS:HD2	1.70	0.71
7:ET:258:ALA:HA	7:ET:261:LYS:HD2	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:5:19:ILE:HD13	7:Ea:148:PHE:CZ	2.24	0.71
3:7:89:TYR:O	7:Ed:192:PHE:CE2	2.43	0.71
13:CJ:206:VAL:CG2	14:A4:36:ALA:HA	2.20	0.71
13:BM:205:THR:HB	14:BN:32:THR:CG2	2.19	0.71
13:BM:206:VAL:CG2	14:BN:36:ALA:HA	2.21	0.71
13:Bb:206:VAL:CG2	14:Bc:36:ALA:HA	2.21	0.71
7:EP:258:ALA:HA	7:EP:261:LYS:HD2	1.71	0.71
14:A4:157:ASN:OD1	14:BD:259:LEU:CD1	2.39	0.71
14:Ce:256:ASN:OD1	14:Cj:245:MET:HE1	1.89	0.71
13:BH:205:THR:HB	14:BI:32:THR:CG2	2.19	0.71
14:BI:157:ASN:OD1	14:BS:259:LEU:CD1	2.39	0.71
7:EO:258:ALA:HA	7:EO:261:LYS:HD2	1.70	0.71
7:Es:201:ALA:HB2	7:Es:232:MET:HE1	1.72	0.71
7:Ez:258:ALA:HA	7:Ez:261:LYS:HD2	1.70	0.71
1:0:119:LEU:HD13	1:0:124:LEU:HD22	1.71	0.71
7:AK:330:ASN:N	7:E3:368:ARG:HD2	2.05	0.71
13:A8:206:VAL:CG2	14:A9:36:ALA:HA	2.21	0.71
13:Cn:205:THR:HB	14:Co:32:THR:CG2	2.19	0.71
14:Co:157:ASN:OD1	14:Cy:259:LEU:CD1	2.39	0.71
17:Cr:180:ARG:NH2	13:Cx:188:ASP:OD1	2.13	0.71
14:Ct:157:ASN:OD1	14:C4:259:LEU:CD1	2.39	0.71
13:C3:206:VAL:CG2	14:C4:36:ALA:HA	2.21	0.71
14:BD:157:ASN:OD1	14:BN:259:LEU:CD1	2.39	0.71
13:Bq:206:VAL:CG2	14:Br:36:ALA:HA	2.21	0.71
6:As:47:PHE:O	5:S:92:ALA:CB	2.39	0.71
6:Ay:59:GLN:NE2	5:T:216:ARG:HH21	1.87	0.71
14:CC:256:ASN:OD1	14:CK:245:MET:HE1	1.89	0.71
14:Ce:157:ASN:OD1	14:Co:259:LEU:CD1	2.39	0.71
13:Cx:206:VAL:CG2	14:Cy:36:ALA:HA	2.21	0.71
13:BH:206:VAL:CG2	14:BI:36:ALA:HA	2.21	0.71
17:BQ:180:ARG:NH2	13:BW:188:ASP:OD1	2.13	0.71
13:Bg:205:THR:HB	14:Bh:32:THR:CG2	2.19	0.71
7:EG:258:ALA:HA	7:EG:261:LYS:HD2	1.70	0.71
14:B8:245:MET:HE1	14:B2:256:ASN:OD1	1.89	0.71
14:A4:259:LEU:CD1	14:C4:157:ASN:OD1	2.39	0.71
14:A9:259:LEU:CD1	14:C9:157:ASN:OD1	2.39	0.71
14:Co:256:ASN:OD1	14:Ct:245:MET:HE1	1.89	0.71
14:Cy:157:ASN:OD1	14:C9:259:LEU:CD1	2.39	0.71
13:BR:206:VAL:CG2	14:BS:36:ALA:HA	2.21	0.71
7:EQ:258:ALA:HA	7:EQ:261:LYS:HD2	1.70	0.71
6:As:46:LEU:HD12	5:S:149:SER:CA	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:y:206:PRO:CA	7:Ep:192:PHE:CD2	2.73	0.71
14:CP:157:ASN:OD1	14:CZ:259:LEU:CD1	2.39	0.71
14:CU:256:ASN:CG	14:CZ:245:MET:HE1	2.15	0.71
13:Cn:206:VAL:CG2	14:Co:36:ALA:HA	2.21	0.71
13:Cx:205:THR:HB	14:Cy:32:THR:CG2	2.19	0.71
17:BV:180:ARG:NH2	13:Bb:188:ASP:OD1	2.13	0.71
1:9:179:LEU:O	1:9:182:ASN:ND2	2.22	0.71
6:A2:433:ILE:HD11	5:P:241:TYR:HH	1.54	0.71
13:B7:206:VAL:CG2	14:CK:36:ALA:HA	2.21	0.71
13:CB:205:THR:HB	14:CC:32:THR:CG2	2.19	0.71
13:CO:206:VAL:CG2	14:CP:36:ALA:HA	2.21	0.71
13:CT:206:VAL:CG2	14:CU:36:ALA:HA	2.21	0.71
13:Cd:205:THR:HB	14:Ce:32:THR:CG2	2.19	0.71
14:Cj:157:ASN:OD1	14:Ct:259:LEU:CD1	2.39	0.71
13:BW:205:THR:HB	14:BX:32:THR:CG2	2.19	0.71
14:BX:157:ASN:OD1	14:Bh:259:LEU:CD1	2.39	0.71
13:Bl:205:THR:HB	14:Bm:32:THR:CG2	2.19	0.71
7:D3:258:ALA:HA	7:D3:261:LYS:HD2	1.70	0.71
21:EE:14:GLU:CB	7:Eu:306:THR:HG21	2.21	0.71
6:G:105:ARG:NH1	6:G:396:GLU:OE2	2.22	0.71
13:CB:206:VAL:CG2	14:CC:36:ALA:HA	2.21	0.71
13:CY:206:VAL:CG2	14:CZ:36:ALA:HA	2.21	0.71
13:BW:206:VAL:CG2	14:BX:36:ALA:HA	2.21	0.71
13:Bb:205:THR:HB	14:Bc:32:THR:CG2	2.19	0.71
3:4:25:ILE:HG13	3:5:52:LEU:HD12	1.73	0.71
8:c:86:PRO:O	10:n:54:ARG:NH1	2.24	0.71
14:CK:157:ASN:OD1	14:CU:259:LEU:CD1	2.39	0.71
17:CN:180:ARG:NH2	13:CT:188:ASP:OD1	2.13	0.71
13:Ci:205:THR:HB	14:Cj:32:THR:CG2	2.19	0.71
13:Ci:206:VAL:CG2	14:Cj:36:ALA:HA	2.21	0.71
13:B1:206:VAL:CG2	14:B2:36:ALA:HA	2.21	0.71
13:Bl:206:VAL:CG2	14:Bm:36:ALA:HA	2.21	0.71
10:n:24:ASN:O	10:n:28:ASN:ND2	2.24	0.70
14:B8:36:ALA:HA	13:B6:206:VAL:CG2	2.21	0.70
14:CZ:157:ASN:OD1	14:Cj:259:LEU:CD1	2.39	0.70
13:Cd:206:VAL:CG2	14:Ce:36:ALA:HA	2.21	0.70
13:BC:206:VAL:CG2	14:BD:36:ALA:HA	2.21	0.70
14:BN:157:ASN:OD1	14:BX:259:LEU:CD1	2.39	0.70
6:Az:3:TYR:CE1	5:U:87:GLN:HG2	2.26	0.70
14:B8:157:ASN:OD1	14:CK:259:LEU:CD1	2.39	0.70
14:Bc:157:ASN:OD1	14:Bm:259:LEU:CD1	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bg:206:VAL:CG2	14:Bh:36:ALA:HA	2.21	0.70
14:Bm:157:ASN:OD1	14:Bw:259:LEU:CD1	2.39	0.70
3:7:64:LEU:HD12	7:EY:148:PHE:CG	2.26	0.70
6:Az:372:GLN:HE21	5:U:168:ASN:CB	2.03	0.70
14:CU:157:ASN:OD1	14:Ce:259:LEU:CD1	2.39	0.70
6:Aw:433:ILE:CD1	5:Q:228:THR:HG23	2.22	0.70
5:Q:91:ASN:HD22	5:Q:93:LEU:H	1.39	0.70
14:B8:259:LEU:CD1	14:Bw:157:ASN:OD1	2.39	0.70
14:CC:248:PRO:HB2	14:CC:252:ALA:HB3	1.74	0.70
14:CC:259:LEU:CD1	14:B2:157:ASN:OD1	2.39	0.70
14:A9:157:ASN:OD1	14:BI:259:LEU:CD1	2.39	0.70
14:CU:248:PRO:HB2	14:CU:252:ALA:HB3	1.74	0.70
14:C9:248:PRO:HB2	14:C9:252:ALA:HB3	1.74	0.70
14:B2:259:LEU:CD1	14:Br:157:ASN:OD1	2.39	0.70
14:BI:248:PRO:HB2	14:BI:252:ALA:HB3	1.74	0.70
14:BS:157:ASN:OD1	14:Bc:259:LEU:CD1	2.39	0.70
7:Ef:163:ARG:HH22	7:Eg:183:LEU:HB3	1.56	0.70
5:AZ:216:ARG:NH2	6:At:59:GLN:HE22	1.89	0.70
13:CJ:205:THR:HB	14:A4:32:THR:CG2	2.19	0.70
14:A4:248:PRO:HB2	14:A4:252:ALA:HB3	1.74	0.70
14:CK:248:PRO:HB2	14:CK:252:ALA:HB3	1.74	0.70
17:Cw:180:ARG:NH2	13:C3:188:ASP:OD1	2.13	0.70
14:Cy:248:PRO:HB2	14:Cy:252:ALA:HB3	1.74	0.70
13:C8:206:VAL:CG2	14:C9:36:ALA:HA	2.20	0.70
6:Az:371:THR:HG22	5:U:161:ARG:NE	2.05	0.70
17:CX:180:ARG:NH2	13:Cd:188:ASP:OD1	2.13	0.70
13:CY:205:THR:HB	14:CZ:32:THR:CG2	2.19	0.70
14:Cj:248:PRO:HB2	14:Cj:252:ALA:HB3	1.74	0.70
14:Ct:248:PRO:HB2	14:Ct:252:ALA:HB3	1.74	0.70
14:Cy:157:ASN:CG	14:C9:259:LEU:HG	2.17	0.70
14:BD:248:PRO:HB2	14:BD:252:ALA:HB3	1.74	0.70
7:D5:374:ASN:HD21	20:D7:7:ASP:CB	2.05	0.70
3:6:68:TRP:CE2	7:Ef:148:PHE:HZ	2.09	0.70
11:v:103:VAL:O	2:y:120:ARG:NH2	2.25	0.70
14:CZ:248:PRO:HB2	14:CZ:252:ALA:HB3	1.74	0.70
13:Bv:206:VAL:CG2	14:Bw:36:ALA:HA	2.21	0.70
14:Bw:248:PRO:HB2	14:Bw:252:ALA:HB3	1.74	0.70
6:Ay:3:TYR:CD1	5:T:87:GLN:HG2	2.27	0.70
14:B8:248:PRO:HB2	14:B8:252:ALA:HB3	1.74	0.70
14:A9:157:ASN:CG	14:BI:259:LEU:HG	2.17	0.70
14:A9:259:LEU:HG	14:C9:157:ASN:CG	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CP:248:PRO:HB2	14:CP:252:ALA:HB3	1.74	0.70
17:CS:180:ARG:NH2	13:CY:188:ASP:OD1	2.13	0.70
14:Ce:248:PRO:HB2	14:Ce:252:ALA:HB3	1.74	0.70
18:DA:254:PRO:HD2	18:DA:257:ARG:HD2	1.73	0.70
7:Eb:146:MET:N	7:Eb:146:MET:SD	2.64	0.70
6:A3:433:ILE:HD11	5:Q:241:TYR:CZ	2.26	0.70
5:AZ:216:ARG:HH21	6:At:59:GLN:NE2	1.90	0.70
14:B8:32:THR:CG2	13:B6:205:THR:HB	2.19	0.70
14:Co:157:ASN:CG	14:Cy:259:LEU:HG	2.17	0.70
14:Bc:248:PRO:HB2	14:Bc:252:ALA:HB3	1.74	0.70
14:Br:248:PRO:HB2	14:Br:252:ALA:HB3	1.74	0.70
7:Eq:201:ALA:HB2	7:Eq:232:MET:HE1	1.74	0.70
6:A2:415:ASN:ND2	5:P:30:SER:OG	2.25	0.70
5:R:161:ARG:HH11	5:R:168:ASN:HD21	1.39	0.70
14:A9:248:PRO:HB2	14:A9:252:ALA:HB3	1.74	0.70
14:C4:248:PRO:HB2	14:C4:252:ALA:HB3	1.74	0.70
14:B2:248:PRO:HB2	14:B2:252:ALA:HB3	1.74	0.70
14:BX:248:PRO:HB2	14:BX:252:ALA:HB3	1.74	0.70
14:Bh:157:ASN:OD1	14:Br:259:LEU:CD1	2.39	0.70
18:DE:254:PRO:HD2	18:DE:257:ARG:HD2	1.73	0.70
18:DI:254:PRO:HD2	18:DI:257:ARG:HD2	1.74	0.70
14:CC:157:ASN:OD1	14:CP:259:LEU:CD1	2.39	0.69
14:A4:259:LEU:HG	14:C4:157:ASN:CG	2.17	0.69
14:Co:248:PRO:HB2	14:Co:252:ALA:HB3	1.74	0.69
13:Cs:206:VAL:CG2	14:Ct:36:ALA:HA	2.21	0.69
14:BN:248:PRO:HB2	14:BN:252:ALA:HB3	1.74	0.69
14:BS:248:PRO:HB2	14:BS:252:ALA:HB3	1.74	0.69
3:6:15:TRP:HZ2	7:Eg:148:PHE:HE2	1.35	0.69
2:y:187:THR:O	7:Eq:192:PHE:HA	1.92	0.69
2:z:197:THR:HB	7:Eb:194:ARG:HG2	1.71	0.69
14:A4:157:ASN:CG	14:BD:259:LEU:HG	2.17	0.69
14:C4:133:MET:SD	14:C9:157:ASN:ND2	2.66	0.69
14:BI:157:ASN:CG	14:BS:259:LEU:HG	2.17	0.69
14:Bh:248:PRO:HB2	14:Bh:252:ALA:HB3	1.74	0.69
7:Eo:163:ARG:HA	7:Eo:166:GLN:HE21	1.57	0.69
4:8:47:LEU:HD21	11:s:98:LEU:HD21	1.72	0.69
6:A1:370:SER:O	5:V:161:ARG:NH2	2.25	0.69
5:AX:123:ASN:HD21	5:AX:127:THR:HB	1.56	0.69
2:y:206:PRO:N	7:Ep:192:PHE:HD2	1.90	0.69
2:z:189:ILE:HD11	7:EX:190:SER:CB	2.22	0.69
14:Bh:157:ASN:CG	14:Br:259:LEU:HG	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DM:254:PRO:HD2	18:DM:257:ARG:HD2	1.74	0.69
5:AY:239:ARG:HH12	6:Ax:431:GLN:HE21	1.37	0.69
5:AZ:235:ILE:CG2	6:Ay:427:ASN:ND2	2.47	0.69
6:E:39:ALA:HB1	6:J:365:GLY:HA2	1.73	0.69
14:Cy:133:MET:SD	14:C4:157:ASN:ND2	2.66	0.69
14:BN:157:ASN:CG	14:BX:259:LEU:HG	2.17	0.69
14:Bm:157:ASN:CG	14:Bw:259:LEU:HG	2.17	0.69
14:Bm:248:PRO:HB2	14:Bm:252:ALA:HB3	1.74	0.69
4:8:243:MET:CE	7:Ej:151:SER:HB2	2.21	0.69
14:B8:259:LEU:HG	14:Bw:157:ASN:CG	2.17	0.69
14:B2:259:LEU:HG	14:Br:157:ASN:CG	2.17	0.69
14:BD:157:ASN:CG	14:BN:259:LEU:HG	2.17	0.69
14:Bc:157:ASN:CG	14:Bm:259:LEU:HG	2.17	0.69
5:AR:98:GLU:HG3	5:AR:216:ARG:HG3	1.74	0.69
14:Ce:157:ASN:CG	14:Co:259:LEU:HG	2.17	0.69
6:A2:37:GLU:HG2	5:P:119:GLN:NE2	2.06	0.69
5:AZ:187:PRO:HB3	6:Az:42:TYR:CE1	2.27	0.69
6:Ab:39:ALA:HB1	6:Ag:365:GLY:HA2	1.73	0.69
6:Az:372:GLN:HE22	5:U:168:ASN:CB	2.05	0.69
2:y:288:ALA:CB	7:Er:192:PHE:CA	2.58	0.69
14:B8:157:ASN:CG	14:CK:259:LEU:HG	2.17	0.69
14:CP:157:ASN:CG	14:CZ:259:LEU:HG	2.17	0.69
14:CU:157:ASN:CG	14:Ce:259:LEU:HG	2.17	0.69
14:CZ:157:ASN:CG	14:Cj:259:LEU:HG	2.17	0.69
14:BN:133:MET:SD	14:BS:157:ASN:ND2	2.66	0.69
14:BX:157:ASN:CG	14:Bh:259:LEU:HG	2.17	0.69
18:DY:254:PRO:HD2	18:DY:257:ARG:HD2	1.74	0.69
5:AR:133:SER:OG	5:AR:190:GLN:NE2	2.25	0.69
5:AZ:19:ILE:CD1	6:Az:429:LEU:HD11	2.23	0.69
5:Aa:82:THR:OG1	6:Au:48:THR:CG2	2.40	0.69
6:Ad:82:ARG:HH11	6:Ad:396:GLU:HG2	1.57	0.69
6:Av:49:ASN:ND2	5:V:218:SER:HB3	2.08	0.69
6:Ax:59:GLN:CD	5:S:219:MET:HE1	2.17	0.69
10:m:22:ARG:HE	10:m:39:ALA:HB3	1.58	0.69
14:CC:259:LEU:HG	14:B2:157:ASN:CG	2.17	0.69
14:CK:157:ASN:CG	14:CU:259:LEU:HG	2.17	0.69
14:CU:133:MET:SD	14:CZ:157:ASN:ND2	2.66	0.69
14:Ct:133:MET:SD	14:Cy:157:ASN:ND2	2.66	0.69
14:Ct:157:ASN:CG	14:C4:259:LEU:HG	2.17	0.69
14:BI:133:MET:SD	14:BN:157:ASN:ND2	2.66	0.69
18:Dk:254:PRO:HD2	18:Dk:257:ARG:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Do:254:PRO:HD2	18:Do:257:ARG:HD2	1.74	0.69
14:Cj:157:ASN:CG	14:Ct:259:LEU:HG	2.17	0.69
14:BS:157:ASN:CG	14:Bc:259:LEU:HG	2.17	0.69
18:DQ:254:PRO:HD2	18:DQ:257:ARG:HD2	1.73	0.69
18:Dw:254:PRO:HD2	18:Dw:257:ARG:HD2	1.74	0.69
7:Ea:199:ALA:O	7:Ea:236:ARG:NE	2.25	0.69
7:Er:163:ARG:HA	7:Er:166:GLN:HE21	1.57	0.69
6:A2:49:ASN:ND2	5:a:218:SER:HB3	2.06	0.69
14:B8:157:ASN:ND2	14:B2:133:MET:SD	2.66	0.69
18:DU:254:PRO:HD2	18:DU:257:ARG:HD2	1.74	0.69
18:Dc:254:PRO:HD2	18:Dc:257:ARG:HD2	1.74	0.69
18:Ds:254:PRO:HD2	18:Ds:257:ARG:HD2	1.74	0.69
14:CC:157:ASN:CG	14:CP:259:LEU:HG	2.17	0.68
14:BD:133:MET:SD	14:BI:157:ASN:ND2	2.66	0.68
2:2:185:LYS:CD	7:Ed:194:ARG:HH11	2.05	0.68
5:AP:239:ARG:NH1	5:AT:252:ASP:OD1	2.26	0.68
5:AZ:31:THR:HG23	6:Az:38:PHE:O	1.94	0.68
14:CP:133:MET:SD	14:CU:157:ASN:ND2	2.66	0.68
14:Bh:133:MET:SD	14:Bm:157:ASN:ND2	2.66	0.68
6:A2:427:ASN:ND2	5:Q:235:ILE:CG2	2.56	0.68
6:H:109:PHE:HE1	6:H:119:THR:HG22	1.57	0.68
5:V:58:GLN:NE2	17:CA:76:LYS:HZ3	1.89	0.68
5:AZ:163:ARG:HD3	6:Az:385:GLY:O	1.93	0.68
6:Ay:372:GLN:HB3	5:T:168:ASN:OD1	1.93	0.68
7:Et:146:MET:SD	7:Et:146:MET:N	2.67	0.68
14:B2:157:ASN:ND2	14:Bw:133:MET:SD	2.66	0.68
7:Eb:220:SER:HA	7:Ec:246:LEU:HD12	1.76	0.68
6:Ae:105:ARG:NH1	6:Ae:396:GLU:OE2	2.26	0.68
6:Am:196:ASP:OD1	6:Am:200:GLN:N	2.26	0.68
13:CB:205:THR:CB	14:CC:32:THR:CG2	2.72	0.68
13:CY:205:THR:CB	14:CZ:32:THR:CG2	2.72	0.68
13:Bb:205:THR:CB	14:Bc:32:THR:CG2	2.72	0.68
13:Bg:205:THR:CB	14:Bh:32:THR:CG2	2.72	0.68
6:Ar:47:PHE:O	5:Q:92:ALA:CB	2.42	0.68
6:As:50:ALA:HA	6:As:53:THR:HG22	1.76	0.68
2:y:185:LYS:O	7:Eq:194:ARG:NH1	2.27	0.68
14:B8:32:THR:CG2	13:B6:205:THR:CB	2.72	0.68
14:A9:133:MET:SD	14:BD:157:ASN:ND2	2.66	0.68
14:Co:133:MET:SD	14:Ct:157:ASN:ND2	2.66	0.68
13:Bl:205:THR:CB	14:Bm:32:THR:CG2	2.72	0.68
18:Dg:254:PRO:HD2	18:Dg:257:ARG:HD2	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EZ:187:PRO:HB3	7:EZ:197:GLN:HB2	1.76	0.68
6:J:33:GLU:HB3	6:J:400:ILE:HG22	1.75	0.68
11:r:103:VAL:HG23	2:z:113:VAL:HG13	1.76	0.68
14:CK:133:MET:SD	14:CP:157:ASN:ND2	2.66	0.68
13:BM:205:THR:CB	14:BN:32:THR:CG2	2.72	0.68
13:BR:205:THR:CB	14:BS:32:THR:CG2	2.72	0.68
3:6:71:GLN:HE22	7:Ef:151:SER:CB	2.07	0.68
13:B7:205:THR:CB	14:CK:32:THR:CG2	2.72	0.68
13:B1:205:THR:CB	14:B2:32:THR:CG2	2.72	0.68
13:BW:205:THR:CB	14:BX:32:THR:CG2	2.72	0.68
14:Bc:133:MET:SD	14:Bh:157:ASN:ND2	2.66	0.68
7:Ej:213:LEU:HD22	7:Ej:217:GLU:HG3	1.76	0.68
6:A1:372:GLN:OE1	5:V:168:ASN:OD1	2.12	0.67
5:AP:117:ASN:HD21	5:AP:119:GLN:HE21	1.42	0.67
17:CX:89:ALA:HB2	17:CX:103:VAL:HG12	1.76	0.67
13:Cd:205:THR:CB	14:Ce:32:THR:CG2	2.72	0.67
13:Ci:205:THR:CB	14:Cj:32:THR:CG2	2.72	0.67
13:Cn:205:THR:CB	14:Co:32:THR:CG2	2.72	0.67
13:BH:205:THR:CB	14:BI:32:THR:CG2	2.72	0.67
7:EY:152:GLN:NE2	7:EY:156:GLN:OE1	2.27	0.67
7:Ee:201:ALA:HB2	7:Ee:232:MET:HE1	1.74	0.67
6:A3:429:LEU:CD2	5:Q:238:GLN:HG3	2.24	0.67
6:D:39:ALA:HB1	6:I:365:GLY:HA2	1.76	0.67
8:e:5:PHE:CE2	22:e:202:PGT:H32	2.28	0.67
17:CN:89:ALA:HB2	17:CN:103:VAL:HG12	1.77	0.67
13:CO:205:THR:CB	14:CP:32:THR:CG2	2.72	0.67
17:CS:89:ALA:HB2	17:CS:103:VAL:HG12	1.77	0.67
6:M:105:ARG:NH1	6:M:396:GLU:OE2	2.28	0.67
17:CF:89:ALA:HB2	17:CF:103:VAL:HG12	1.77	0.67
17:Cc:89:ALA:HB2	17:Cc:103:VAL:HG12	1.77	0.67
13:Cs:205:THR:CB	14:Ct:32:THR:CG2	2.72	0.67
17:BB:89:ALA:HB2	17:BB:103:VAL:HG12	1.77	0.67
13:BC:205:THR:CB	14:BD:32:THR:CG2	2.72	0.67
17:BG:89:ALA:HB2	17:BG:103:VAL:HG12	1.77	0.67
17:BL:89:ALA:HB2	17:BL:103:VAL:HG12	1.77	0.67
17:BQ:89:ALA:HB2	17:BQ:103:VAL:HG12	1.76	0.67
4:8:92:MET:HE2	4:8:248:GLY:HA3	1.77	0.67
5:A:154:THR:HG22	5:T:57:SER:HB3	1.75	0.67
7:AF:335:ILE:HG13	7:AF:338:ALA:HB2	1.74	0.67
5:AQ:99:GLY:O	5:AQ:116:ARG:NH2	2.28	0.67
14:CC:133:MET:SD	14:CK:157:ASN:ND2	2.66	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CO:368:GLN:NE2	18:DD:94:PRO:O	2.26	0.67
13:CY:368:GLN:NE2	18:DH:94:PRO:O	2.26	0.67
14:BS:133:MET:SD	14:BX:157:ASN:ND2	2.66	0.67
7:EK:324:GLU:HG3	7:EK:369:LYS:HD2	1.77	0.67
3:7:64:LEU:CD1	7:EY:148:PHE:CG	2.77	0.67
6:A1:429:LEU:HD21	5:Aa:238:GLN:HG3	1.75	0.67
6:Ay:371:THR:CG2	5:T:161:ARG:CZ	2.68	0.67
17:CA:89:ALA:HB2	17:CA:103:VAL:HG12	1.77	0.67
13:Ci:368:GLN:NE2	18:DL:94:PRO:O	2.26	0.67
13:Cx:205:THR:CB	14:Cy:32:THR:CG2	2.72	0.67
14:Br:133:MET:SD	14:Bw:157:ASN:ND2	2.66	0.67
7:EU:324:GLU:HG3	7:EU:369:LYS:HD2	1.77	0.67
6:As:433:ILE:HD11	6:Ax:416:PHE:HZ	1.59	0.67
6:At:49:ASN:ND2	5:T:218:SER:HB3	2.10	0.67
6:M:238:GLY:O	6:M:241:GLN:NE2	2.28	0.67
13:CB:368:GLN:NE2	18:CG:94:PRO:O	2.26	0.67
17:A7:89:ALA:HB2	17:A7:103:VAL:HG12	1.77	0.67
17:Ch:89:ALA:HB2	17:Ch:103:VAL:HG12	1.76	0.67
13:C3:205:THR:CB	14:C4:32:THR:CG2	2.72	0.67
7:EH:324:GLU:HG3	7:EH:369:LYS:HD2	1.77	0.67
2:1:189:ILE:CD1	7:Eh:193:VAL:HA	2.25	0.67
2:1:189:ILE:CD1	7:Eh:193:VAL:CA	2.72	0.67
2:2:189:ILE:HD13	7:Ed:193:VAL:CG2	2.20	0.67
3:7:64:LEU:CD1	7:EY:148:PHE:CZ	2.74	0.67
5:A:99:GLY:O	5:A:116:ARG:NH2	2.27	0.67
7:AD:341:ASN:HD21	7:EK:366:SER:H	1.39	0.67
6:Ap:327:ASP:N	6:Ap:327:ASP:OD1	2.28	0.67
13:CJ:205:THR:CB	14:A4:32:THR:CG2	2.72	0.67
13:C8:205:THR:CB	14:C9:32:THR:CG2	2.72	0.67
17:B5:89:ALA:HB2	17:B5:103:VAL:HG12	1.76	0.67
7:EJ:324:GLU:HG3	7:EJ:369:LYS:HD2	1.77	0.67
7:ER:324:GLU:HG3	7:ER:369:LYS:HD2	1.77	0.67
7:EZ:178:ARG:NH1	7:EZ:207:LEU:O	2.27	0.67
7:Eh:178:ARG:NH1	7:Eh:207:LEU:O	2.28	0.67
7:En:220:SER:HB3	7:Eo:246:LEU:HB2	1.76	0.67
7:AL:341:ASN:ND2	8:c:88:THR:OG1	2.27	0.67
6:Ak:82:ARG:HH11	6:Ak:396:GLU:HG2	1.60	0.67
9:i:36:SER:HB2	10:n:43:SER:HB2	1.77	0.67
13:B7:154:ASN:OD1	13:B7:166:SER:OG	2.13	0.67
17:CI:89:ALA:HB2	17:CI:103:VAL:HG12	1.76	0.67
13:A8:205:THR:CB	14:A9:32:THR:CG2	2.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Cj:133:MET:SD	14:Co:157:ASN:ND2	2.66	0.67
17:BV:89:ALA:HB2	17:BV:103:VAL:HG12	1.77	0.67
13:Bv:154:ASN:OD1	13:Bv:166:SER:OG	2.13	0.67
18:DL:93:PRO:HD2	18:DL:96:ARG:HD2	1.76	0.67
18:DP:93:PRO:HD2	18:DP:96:ARG:HD2	1.76	0.67
7:EG:324:GLU:HG3	7:EG:369:LYS:HD2	1.77	0.67
7:EN:324:GLU:HG3	7:EN:369:LYS:HD2	1.77	0.67
7:ES:324:GLU:HG3	7:ES:369:LYS:HD2	1.77	0.67
7:Es:218:VAL:HG21	7:Es:247:LEU:HB3	1.77	0.67
6:Al:427:ASN:OD1	6:Ar:414:ARG:NH1	2.27	0.67
6:At:33:GLU:HB3	6:At:400:ILE:HG22	1.75	0.67
11:t:43:ASN:ND2	22:t:202:PGT:H11	2.10	0.67
2:y:206:PRO:CD	7:Ep:192:PHE:CD2	2.78	0.67
14:A4:133:MET:SD	14:A9:157:ASN:ND2	2.66	0.67
17:Cm:226:ARG:NH2	13:Cs:323:THR:O	2.28	0.67
13:Cs:368:GLN:NE2	18:DP:94:PRO:O	2.26	0.67
13:B1:368:GLN:NE2	18:Dv:94:PRO:O	2.26	0.67
18:DT:93:PRO:HD2	18:DT:96:ARG:HD2	1.76	0.67
7:EI:324:GLU:HG3	7:EI:369:LYS:HD2	1.77	0.67
7:EL:324:GLU:HG3	7:EL:369:LYS:HD2	1.77	0.67
7:EV:324:GLU:HG3	7:EV:369:LYS:HD2	1.77	0.67
7:EW:324:GLU:HG3	7:EW:369:LYS:HD2	1.77	0.67
7:EY:241:ASP:OD1	7:EY:244:GLY:N	2.25	0.67
7:Ec:139:ASP:OD2	7:Ed:165:ARG:NH2	2.28	0.67
6:Ab:101:ASN:OD1	6:Ab:377:LYS:NZ	2.28	0.67
6:An:427:ASN:OD1	6:At:414:ARG:NH1	2.28	0.67
6:Av:433:ILE:HD11	5:P:228:THR:HG23	1.77	0.67
10:q:86:GLY:O	10:q:101:ARG:NH1	2.28	0.67
13:B7:334:ARG:CD	13:CO:353:GLU:HG2	2.25	0.67
13:CT:334:ARG:CD	13:CY:353:GLU:HG2	2.26	0.67
13:CY:334:ARG:CD	13:Cd:353:GLU:HG2	2.25	0.67
17:Cm:89:ALA:HB2	17:Cm:103:VAL:HG12	1.76	0.67
17:Ba:89:ALA:HB2	17:Ba:103:VAL:HG12	1.76	0.67
13:Bv:205:THR:CB	14:Bw:32:THR:CG2	2.72	0.67
7:ET:324:GLU:HG3	7:ET:369:LYS:HD2	1.77	0.67
5:AZ:216:ARG:NH2	6:At:59:GLN:NE2	2.42	0.66
6:Ai:40:ASP:H	6:An:366:THR:HG23	1.59	0.66
6:At:50:ALA:HA	6:At:53:THR:HG22	1.77	0.66
14:B8:133:MET:SD	14:CC:157:ASN:ND2	2.66	0.66
13:CB:205:THR:OG1	14:CC:32:THR:CG2	2.44	0.66
17:CI:226:ARG:NH2	13:A8:323:THR:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CO:334:ARG:CD	13:CT:353:GLU:HG2	2.26	0.66
13:CT:205:THR:CB	14:CU:32:THR:CG2	2.72	0.66
13:Ci:154:ASN:OD1	13:Ci:166:SER:OG	2.13	0.66
13:Bq:154:ASN:OD1	13:Bq:166:SER:OG	2.13	0.66
7:EM:324:GLU:HG3	7:EM:369:LYS:HD2	1.77	0.66
7:EO:324:GLU:HG3	7:EO:369:LYS:HD2	1.77	0.66
7:EP:324:GLU:HG3	7:EP:369:LYS:HD2	1.77	0.66
7:EQ:324:GLU:HG3	7:EQ:369:LYS:HD2	1.77	0.66
7:Eb:163:ARG:NH2	7:Ec:184:LEU:O	2.28	0.66
3:5:54:ARG:NH1	3:7:48:THR:OG1	2.28	0.66
6:A1:33:GLU:HB3	6:A1:400:ILE:HG22	1.78	0.66
10:o:65:ASN:O	10:o:208:ASN:ND2	2.29	0.66
13:B7:205:THR:OG1	14:CK:32:THR:CG2	2.44	0.66
13:B7:353:GLU:HG2	13:CB:334:ARG:CD	2.26	0.66
14:B8:32:THR:CG2	13:B6:205:THR:OG1	2.44	0.66
13:CB:154:ASN:OD1	13:CB:166:SER:OG	2.13	0.66
13:CJ:323:THR:O	17:C7:226:ARG:NH2	2.29	0.66
13:A8:205:THR:OG1	14:A9:32:THR:CG2	2.44	0.66
13:CO:205:THR:OG1	14:CP:32:THR:CG2	2.44	0.66
13:Cd:154:ASN:OD1	13:Cd:166:SER:OG	2.13	0.66
13:Cd:334:ARG:CD	13:Ci:353:GLU:HG2	2.26	0.66
17:Cr:226:ARG:NH2	13:Cx:323:THR:O	2.29	0.66
13:C3:368:GLN:NE2	18:DT:94:PRO:O	2.26	0.66
13:BC:205:THR:OG1	14:BD:32:THR:CG2	2.44	0.66
13:Bq:368:GLN:NE2	18:Dr:94:PRO:O	2.26	0.66
17:Bz:89:ALA:HB2	17:Bz:103:VAL:HG12	1.77	0.66
7:Eu:324:GLU:HG3	7:Eu:369:LYS:HD2	1.77	0.66
7:Ev:324:GLU:HG3	7:Ev:369:LYS:HD2	1.77	0.66
2:z:197:THR:CG2	7:Eb:194:ARG:HG2	2.25	0.66
13:B7:50:LEU:HD21	13:B7:67:LEU:HD23	1.78	0.66
13:CJ:205:THR:OG1	14:A4:32:THR:CG2	2.44	0.66
13:CT:205:THR:OG1	14:CU:32:THR:CG2	2.44	0.66
13:Ci:334:ARG:CD	13:Cn:353:GLU:HG2	2.25	0.66
17:C7:89:ALA:HB2	17:C7:103:VAL:HG12	1.77	0.66
13:B1:205:THR:OG1	14:B2:32:THR:CG2	2.44	0.66
18:DH:93:PRO:HD2	18:DH:96:ARG:HD2	1.76	0.66
21:EE:7:GLU:CB	7:Ev:306:THR:HG21	2.25	0.66
2:2:244:VAL:HG11	2:2:262:SER:HB2	1.77	0.66
6:A2:82:ARG:HH11	6:A2:396:GLU:HG2	1.61	0.66
5:Aa:168:ASN:ND2	6:Au:372:GLN:HE21	1.89	0.66
6:An:40:ASP:H	6:As:366:THR:HG23	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:47:PHE:CE1	5:X:93:LEU:CD1	2.75	0.66
13:CB:50:LEU:HD21	13:CB:67:LEU:HD23	1.78	0.66
13:CB:353:GLU:HG2	13:B6:334:ARG:CD	2.26	0.66
17:A7:226:ARG:NH2	13:BC:323:THR:O	2.28	0.66
13:CO:50:LEU:HD21	13:CO:67:LEU:HD23	1.78	0.66
17:CS:226:ARG:NH2	13:CY:323:THR:O	2.28	0.66
13:Cn:334:ARG:CD	13:Cs:353:GLU:HG2	2.25	0.66
18:DA:245:ARG:HB2	18:DA:260:VAL:HG11	1.77	0.66
13:Bg:205:THR:OG1	14:Bh:32:THR:CG2	2.44	0.66
18:DD:93:PRO:HD2	18:DD:96:ARG:HD2	1.76	0.66
18:DX:93:PRO:HD2	18:DX:96:ARG:HD2	1.76	0.66
18:Df:93:PRO:HD2	18:Df:96:ARG:HD2	1.76	0.66
7:Ec:176:GLN:OE1	7:Ec:176:GLN:N	2.26	0.66
5:AV:87:GLN:HE22	5:Z:38:ARG:HH22	1.43	0.66
6:Ac:366:THR:HG23	6:L:40:ASP:H	1.59	0.66
2:z:197:THR:HG21	7:Eb:194:ARG:HG2	1.77	0.66
13:CJ:368:GLN:NE2	18:DX:94:PRO:O	2.26	0.66
13:Cn:154:ASN:OD1	13:Cn:166:SER:OG	2.13	0.66
13:C8:205:THR:OG1	14:C9:32:THR:CG2	2.44	0.66
13:B6:50:LEU:HD21	13:B6:67:LEU:HD23	1.78	0.66
13:BH:205:THR:OG1	14:BI:32:THR:CG2	2.44	0.66
13:Bg:368:GLN:NE2	18:Dn:94:PRO:O	2.26	0.66
13:Bl:205:THR:OG1	14:Bm:32:THR:CG2	2.44	0.66
13:Bv:205:THR:OG1	14:Bw:32:THR:CG2	2.44	0.66
7:Er:201:ALA:HB2	7:Er:232:MET:HE1	1.78	0.66
5:AZ:227:VAL:CG2	6:At:430:GLN:HE21	2.07	0.66
5:Aa:50:ASN:HB2	5:Aa:66:LEU:H	1.59	0.66
6:Al:343:ASN:HD22	6:O:372:GLN:HB2	1.61	0.66
13:B1:334:ARG:CD	13:B6:353:GLU:HG2	2.26	0.66
13:Bb:205:THR:OG1	14:Bc:32:THR:CG2	2.44	0.66
13:Bl:154:ASN:OD1	13:Bl:166:SER:OG	2.13	0.66
17:Bu:89:ALA:HB2	17:Bu:103:VAL:HG12	1.77	0.66
18:DE:245:ARG:HB2	18:DE:260:VAL:HG11	1.77	0.66
7:E3:324:GLU:HG3	7:E3:369:LYS:HD2	1.77	0.66
2:2:141:LEU:HG	2:z:198:MET:HE1	1.78	0.66
6:Af:39:ALA:HB1	6:Ak:365:GLY:HA2	1.76	0.66
6:Af:238:GLY:O	6:Af:241:GLN:NE2	2.29	0.66
6:As:47:PHE:O	5:S:92:ALA:HB2	1.95	0.66
6:K:33:GLU:HB3	6:K:400:ILE:HG22	1.78	0.66
2:y:285:GLY:O	7:Er:192:PHE:HB3	1.95	0.66
13:CT:50:LEU:HD21	13:CT:67:LEU:HD23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CY:205:THR:OG1	14:CZ:32:THR:CG2	2.44	0.66
14:Ce:133:MET:SD	14:Cj:157:ASN:ND2	2.66	0.66
13:Cs:334:ARG:CD	13:Cx:353:GLU:HG2	2.25	0.66
13:C3:205:THR:OG1	14:C4:32:THR:CG2	2.44	0.66
13:BC:368:GLN:NE2	18:Db:94:PRO:O	2.26	0.66
13:BW:50:LEU:HD21	13:BW:67:LEU:HD23	1.78	0.66
13:BW:154:ASN:OD1	13:BW:166:SER:OG	2.13	0.66
14:BX:133:MET:SD	14:Bc:157:ASN:ND2	2.66	0.66
17:Bf:89:ALA:HB2	17:Bf:103:VAL:HG12	1.77	0.66
13:Bq:205:THR:OG1	14:Br:32:THR:CG2	2.44	0.66
18:DI:245:ARG:HB2	18:DI:260:VAL:HG11	1.78	0.66
6:A2:356:ASN:ND2	5:P:122:LEU:O	2.29	0.66
6:An:33:GLU:HB3	6:An:400:ILE:HG22	1.78	0.66
14:CZ:133:MET:SD	14:Ce:157:ASN:ND2	2.66	0.66
17:Cr:89:ALA:HB2	17:Cr:103:VAL:HG12	1.77	0.66
13:B1:50:LEU:HD21	13:B1:67:LEU:HD23	1.78	0.66
13:B1:353:GLU:HG2	13:Bv:334:ARG:CD	2.26	0.66
13:BM:368:GLN:NE2	18:Df:94:PRO:O	2.26	0.66
13:BR:50:LEU:HD21	13:BR:67:LEU:HD23	1.78	0.66
13:BR:154:ASN:OD1	13:BR:166:SER:OG	2.13	0.66
17:BV:226:ARG:NH2	13:Bb:323:THR:O	2.28	0.66
13:BW:368:GLN:NE2	18:Dj:94:PRO:O	2.26	0.66
18:Db:93:PRO:HD2	18:Db:96:ARG:HD2	1.76	0.66
18:Dj:93:PRO:HD2	18:Dj:96:ARG:HD2	1.76	0.66
7:D4:324:GLU:HG3	7:D4:369:LYS:HD2	1.77	0.66
7:D5:324:GLU:HG3	7:D5:369:LYS:HD2	1.77	0.66
7:EX:163:ARG:HD3	7:EX:166:GLN:HE21	1.61	0.66
7:Eh:184:LEU:HD21	7:Eh:229:VAL:HG21	1.76	0.66
7:AA:355:GLN:O	7:AA:356:MET:HB3	1.94	0.66
5:AY:231:LEU:HD11	6:As:434:LEU:CD1	2.10	0.66
6:Ab:416:PHE:HZ	6:K:433:ILE:HD11	1.61	0.66
6:Ae:365:GLY:HA2	6:N:39:ALA:HB1	1.77	0.66
18:CG:93:PRO:HD2	18:CG:96:ARG:HD2	1.76	0.66
13:CY:154:ASN:OD1	13:CY:166:SER:OG	2.13	0.66
17:Cw:226:ARG:NH2	13:C3:323:THR:O	2.28	0.66
13:Cx:205:THR:OG1	14:Cy:32:THR:CG2	2.44	0.66
13:BM:50:LEU:HD21	13:BM:67:LEU:HD23	1.78	0.66
17:Bp:89:ALA:HB2	17:Bp:103:VAL:HG12	1.76	0.66
18:Dr:93:PRO:HD2	18:Dr:96:ARG:HD2	1.76	0.66
7:Dz:324:GLU:HG3	7:Dz:369:LYS:HD2	1.77	0.66
7:E2:324:GLU:HG3	7:E2:369:LYS:HD2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E4:324:GLU:HG3	7:E4:369:LYS:HD2	1.77	0.66
6:A3:383:ASN:O	5:Q:163:ARG:NH2	2.29	0.66
9:i:53:LEU:O	9:i:54:SER:C	2.38	0.66
9:j:75:LYS:O	9:j:98:ASN:ND2	2.29	0.66
13:Cd:205:THR:OG1	14:Ce:32:THR:CG2	2.44	0.66
13:Cs:205:THR:OG1	14:Ct:32:THR:CG2	2.44	0.66
13:Cx:334:ARG:CD	13:C3:353:GLU:HG2	2.26	0.66
17:C2:89:ALA:HB2	17:C2:103:VAL:HG12	1.77	0.66
13:BM:205:THR:OG1	14:BN:32:THR:CG2	2.44	0.66
13:BR:205:THR:OG1	14:BS:32:THR:CG2	2.44	0.66
13:Bb:50:LEU:HD21	13:Bb:67:LEU:HD23	1.78	0.66
18:Dv:93:PRO:HD2	18:Dv:96:ARG:HD2	1.76	0.66
7:E5:324:GLU:HG3	7:E5:369:LYS:HD2	1.77	0.66
6:Ay:371:THR:CG2	5:T:161:ARG:HH12	1.93	0.65
14:B8:157:ASN:OD1	14:CK:259:LEU:HG	1.96	0.65
17:CX:226:ARG:NH2	13:Cd:323:THR:O	2.28	0.65
13:C8:154:ASN:OD1	13:C8:166:SER:OG	2.13	0.65
13:BH:50:LEU:HD21	13:BH:67:LEU:HD23	1.78	0.65
13:BW:205:THR:OG1	14:BX:32:THR:CG2	2.44	0.65
13:Bq:205:THR:CB	14:Br:32:THR:CG2	2.72	0.65
13:Bq:334:ARG:CD	13:Bv:353:GLU:HG2	2.26	0.65
18:DM:245:ARG:HB2	18:DM:260:VAL:HG11	1.78	0.65
7:D3:324:GLU:HG3	7:D3:369:LYS:HD2	1.77	0.65
7:Ew:324:GLU:HG3	7:Ew:369:LYS:HD2	1.77	0.65
6:A3:383:ASN:O	5:Q:163:ARG:CZ	2.44	0.65
5:AY:123:ASN:HD21	5:AY:127:THR:HB	1.61	0.65
6:Ab:327:ASP:N	6:Ab:327:ASP:OD1	2.30	0.65
5:Q:99:GLY:O	5:Q:116:ARG:NH2	2.29	0.65
13:CJ:154:ASN:OD1	13:CJ:166:SER:OG	2.13	0.65
13:CY:50:LEU:HD21	13:CY:67:LEU:HD23	1.78	0.65
13:C3:154:ASN:OD1	13:C3:166:SER:OG	2.13	0.65
13:C3:334:ARG:CD	13:C8:353:GLU:HG2	2.26	0.65
17:Bk:89:ALA:HB2	17:Bk:103:VAL:HG12	1.77	0.65
18:Ds:245:ARG:HB2	18:Ds:260:VAL:HG11	1.77	0.65
18:Dw:245:ARG:HB2	18:Dw:260:VAL:HG11	1.77	0.65
7:Ep:165:ARG:NH2	7:Eq:139:ASP:OD2	2.28	0.65
2:3:205:ASN:ND2	7:Et:194:ARG:NH1	2.43	0.65
6:A2:46:LEU:CD1	5:a:150:ILE:HG13	2.26	0.65
14:CC:157:ASN:OD1	14:CP:259:LEU:HG	1.96	0.65
14:CC:259:LEU:HG	14:B2:157:ASN:OD1	1.96	0.65
14:A4:157:ASN:ND2	14:C9:133:MET:SD	2.66	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ci:205:THR:OG1	14:Cj:32:THR:CG2	2.44	0.65
13:Cn:205:THR:OG1	14:Co:32:THR:CG2	2.44	0.65
17:BB:226:ARG:NH2	13:BH:323:THR:O	2.28	0.65
13:BM:154:ASN:OD1	13:BM:166:SER:OG	2.13	0.65
13:Bg:50:LEU:HD21	13:Bg:67:LEU:HD23	1.78	0.65
14:Bm:133:MET:SD	14:Br:157:ASN:ND2	2.66	0.65
18:Dn:93:PRO:HD2	18:Dn:96:ARG:HD2	1.76	0.65
7:D1:324:GLU:HG3	7:D1:369:LYS:HD2	1.77	0.65
7:Ez:324:GLU:HG3	7:Ez:369:LYS:HD2	1.77	0.65
6:Am:427:ASN:OD1	6:As:414:ARG:NH1	2.29	0.65
14:CP:157:ASN:OD1	14:CZ:259:LEU:HG	1.97	0.65
17:Cw:89:ALA:HB2	17:Cw:103:VAL:HG12	1.76	0.65
13:B6:154:ASN:OD1	13:B6:166:SER:OG	2.13	0.65
13:Bl:334:ARG:CD	13:Bq:353:GLU:HG2	2.26	0.65
13:Bv:50:LEU:HD21	13:Bv:67:LEU:HD23	1.78	0.65
7:Ei:241:ASP:OD2	7:Ei:245:ARG:NH1	2.29	0.65
3:7:89:TYR:O	7:Ed:192:PHE:CD2	2.49	0.65
5:AP:87:GLN:HE22	5:AS:38:ARG:HH22	1.44	0.65
5:AY:235:ILE:HG21	6:Ax:427:ASN:HD21	1.50	0.65
6:An:109:PHE:HE1	6:An:119:THR:HG22	1.61	0.65
9:l:40:ASP:OD1	9:l:40:ASP:N	2.27	0.65
10:o:135:LEU:HD13	10:o:138:ILE:HD11	1.78	0.65
2:z:197:THR:HG21	7:Eb:194:ARG:CG	2.26	0.65
13:CJ:353:GLU:HG2	13:C8:334:ARG:CD	2.26	0.65
14:CU:157:ASN:OD1	14:Ce:259:LEU:HG	1.97	0.65
18:DY:245:ARG:HB2	18:DY:260:VAL:HG11	1.77	0.65
7:Et:157:GLU:HA	7:Et:160:LYS:HE2	1.78	0.65
7:Ex:324:GLU:HG3	7:Ex:369:LYS:HD2	1.77	0.65
7:Ey:324:GLU:HG3	7:Ey:369:LYS:HD2	1.77	0.65
7:E1:324:GLU:HG3	7:E1:369:LYS:HD2	1.77	0.65
5:AS:191:ASN:ND2	5:AW:43:ASP:OD1	2.29	0.65
6:G:430:GLN:HG2	6:M:414:ARG:HD2	1.79	0.65
14:B8:259:LEU:HG	14:Bw:157:ASN:OD1	1.96	0.65
17:CI:116:GLY:O	17:C7:158:ASN:ND2	2.30	0.65
17:CI:158:ASN:ND2	17:A7:116:GLY:O	2.30	0.65
13:A8:72:GLU:HG3	16:BA:6:PRO:HA	1.79	0.65
17:CX:158:ASN:ND2	17:Cc:116:GLY:O	2.30	0.65
13:Cd:50:LEU:HD21	13:Cd:67:LEU:HD23	1.78	0.65
14:Ce:157:ASN:OD1	14:Co:259:LEU:HG	1.96	0.65
14:Cj:157:ASN:OD1	14:Ct:259:LEU:HG	1.96	0.65
14:B2:259:LEU:HG	14:Br:157:ASN:OD1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BC:50:LEU:HD21	13:BC:67:LEU:HD23	1.78	0.65
13:Bg:334:ARG:CD	13:Bl:353:GLU:HG2	2.26	0.65
5:Aa:150:ILE:HG13	6:Ap:46:LEU:CD1	2.25	0.65
6:Al:196:ASP:OD1	6:Al:200:GLN:N	2.30	0.65
2:y:103:VAL:O	2:y:107:THR:OG1	2.15	0.65
13:A8:154:ASN:OD1	13:A8:166:SER:OG	2.13	0.65
14:CK:157:ASN:OD1	14:CU:259:LEU:HG	1.96	0.65
17:Cm:158:ASN:ND2	17:Cr:116:GLY:O	2.30	0.65
13:Cn:72:GLU:HG3	16:Cq:6:PRO:HA	1.79	0.65
14:Co:157:ASN:OD1	14:Cy:259:LEU:HG	1.96	0.65
17:BQ:158:ASN:ND2	17:BV:116:GLY:O	2.30	0.65
13:BW:72:GLU:HG3	16:BZ:6:PRO:HA	1.79	0.65
13:Bl:317:LYS:NZ	13:Bl:359:ASP:OD2	2.30	0.65
7:Ed:241:ASP:OD1	7:Ed:245:ARG:N	2.30	0.65
5:AW:99:GLY:O	5:AW:116:ARG:NH2	2.30	0.65
5:B:42:GLU:HG2	5:B:75:VAL:HB	1.78	0.65
6:N:131:ASP:OD1	6:N:131:ASP:N	2.27	0.65
5:Y:99:GLY:O	5:Y:116:ARG:NH2	2.30	0.65
17:CF:158:ASN:ND2	17:CN:116:GLY:O	2.30	0.65
13:CJ:334:ARG:CD	13:A8:353:GLU:HG2	2.26	0.65
17:A7:158:ASN:ND2	17:BB:116:GLY:O	2.30	0.65
13:A8:50:LEU:HD21	13:A8:67:LEU:HD23	1.78	0.65
17:Cc:158:ASN:ND2	17:Ch:116:GLY:O	2.30	0.65
13:Cn:317:LYS:NZ	13:Cn:359:ASP:OD2	2.30	0.65
13:C3:317:LYS:NZ	13:C3:359:ASP:OD2	2.30	0.65
17:BB:158:ASN:ND2	17:BG:116:GLY:O	2.30	0.65
17:BL:158:ASN:ND2	17:BQ:116:GLY:O	2.30	0.65
17:Ba:226:ARG:NH2	13:Bg:323:THR:O	2.29	0.65
18:DQ:245:ARG:HB2	18:DQ:260:VAL:HG11	1.77	0.65
7:Eo:184:LEU:HD21	7:Eo:229:VAL:HG21	1.79	0.65
6:Ae:109:PHE:HE1	6:Ae:119:THR:HG22	1.62	0.65
6:Ak:39:ALA:HB1	6:Ap:365:GLY:HA2	1.79	0.65
6:Az:372:GLN:NE2	5:U:168:ASN:OD1	2.27	0.65
9:h:22:ASN:HD22	10:o:54:ARG:HE	1.45	0.65
17:Cr:158:ASN:ND2	17:Cw:116:GLY:O	2.30	0.65
13:Cs:72:GLU:HG3	16:Cv:6:PRO:HA	1.79	0.65
17:C2:158:ASN:ND2	17:C7:116:GLY:O	2.30	0.65
13:BC:72:GLU:HG3	16:BF:6:PRO:HA	1.79	0.65
13:BC:317:LYS:NZ	13:BC:359:ASP:OD2	2.30	0.65
13:BW:317:LYS:NZ	13:BW:359:ASP:OD2	2.30	0.65
13:Bb:334:ARG:CD	13:Bg:353:GLU:HG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bf:158:ASN:ND2	17:Bk:116:GLY:O	2.30	0.65
13:Bg:154:ASN:OD1	13:Bg:166:SER:OG	2.13	0.65
13:Bl:50:LEU:HD21	13:Bl:67:LEU:HD23	1.78	0.65
7:Ej:176:GLN:OE1	7:Ej:176:GLN:N	2.29	0.65
5:AY:149:SER:HA	6:An:46:LEU:HD12	1.79	0.65
6:Af:427:ASN:OD1	6:Al:414:ARG:NH1	2.30	0.65
6:Ak:343:ASN:HD22	6:N:372:GLN:HB2	1.61	0.65
6:E:101:ASN:OD1	6:E:377:LYS:NZ	2.29	0.65
13:CJ:72:GLU:HG3	16:A6:6:PRO:HA	1.79	0.65
17:Ch:158:ASN:ND2	17:Cm:116:GLY:O	2.30	0.65
13:Cx:72:GLU:HG3	16:C1:6:PRO:HA	1.79	0.65
13:Cx:154:ASN:OD1	13:Cx:166:SER:OG	2.13	0.65
13:B1:317:LYS:NZ	13:B1:359:ASP:OD2	2.30	0.65
13:BR:317:LYS:NZ	13:BR:359:ASP:OD2	2.30	0.65
13:BW:334:ARG:CD	13:Bb:353:GLU:HG2	2.26	0.65
13:Bb:72:GLU:HG3	16:Be:6:PRO:HA	1.79	0.65
18:DU:245:ARG:HB2	18:DU:260:VAL:HG11	1.78	0.65
18:Dc:245:ARG:HB2	18:Dc:260:VAL:HG11	1.78	0.65
7:D2:324:GLU:HG3	7:D2:369:LYS:HD2	1.77	0.65
2:2:185:LYS:CG	7:Ed:194:ARG:HH12	2.10	0.64
6:Az:41:VAL:CG2	6:Az:59:GLN:HB2	2.27	0.64
6:H:427:ASN:OD1	6:N:414:ARG:NH1	2.30	0.64
13:A8:317:LYS:NZ	13:A8:359:ASP:OD2	2.30	0.64
13:A8:334:ARG:CD	13:BC:353:GLU:HG2	2.26	0.64
17:Cc:226:ARG:NH2	13:Ci:323:THR:O	2.28	0.64
13:Bg:72:GLU:CB	16:Bj:6:PRO:HA	2.28	0.64
13:Bq:50:LEU:HD21	13:Bq:67:LEU:HD23	1.78	0.64
3:4:89:TYR:CE2	7:Eq:190:SER:HB2	2.33	0.64
5:AU:101:GLY:O	5:AU:116:ARG:NH1	2.30	0.64
6:H:33:GLU:HB3	6:H:400:ILE:HG22	1.79	0.64
6:I:427:ASN:OD1	6:O:414:ARG:NH1	2.30	0.64
13:A8:72:GLU:CB	16:BA:6:PRO:HA	2.28	0.64
13:CT:72:GLU:CB	16:CW:6:PRO:HA	2.28	0.64
13:CY:317:LYS:NZ	13:CY:359:ASP:OD2	2.30	0.64
14:Ct:157:ASN:OD1	14:C4:259:LEU:HG	1.97	0.64
13:C8:317:LYS:NZ	13:C8:359:ASP:OD2	2.30	0.64
13:BC:334:ARG:CD	13:BH:353:GLU:HG2	2.26	0.64
13:BH:154:ASN:OD1	13:BH:166:SER:OG	2.13	0.64
13:BM:334:ARG:CD	13:BR:353:GLU:HG2	2.25	0.64
13:BR:72:GLU:HG3	16:BU:6:PRO:HA	1.79	0.64
13:BR:334:ARG:CD	13:BW:353:GLU:HG2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bg:72:GLU:HG3	16:Bj:6:PRO:HA	1.79	0.64
13:Bg:317:LYS:NZ	13:Bg:359:ASP:OD2	2.30	0.64
13:Bl:72:GLU:CB	16:Bo:6:PRO:HA	2.28	0.64
17:Bu:158:ASN:ND2	17:Bz:116:GLY:O	2.30	0.64
7:Es:185:ALA:O	7:Es:199:ALA:HA	1.97	0.64
6:A3:82:ARG:HH11	6:A3:396:GLU:HG2	1.63	0.64
5:AV:191:ASN:ND2	5:Z:43:ASP:OD1	2.30	0.64
6:An:327:ASP:OD1	6:An:327:ASP:N	2.31	0.64
6:Ao:40:ASP:H	6:At:366:THR:HG23	1.63	0.64
6:Ar:46:LEU:CD1	5:Q:150:ILE:HG13	2.27	0.64
5:U:176:ILE:HG13	5:U:212:LEU:HD22	1.78	0.64
10:n:83:GLU:OE2	10:n:142:ARG:NH1	2.30	0.64
13:B7:317:LYS:NZ	13:B7:359:ASP:OD2	2.30	0.64
13:CB:323:THR:O	17:B5:226:ARG:NH2	2.28	0.64
13:CJ:50:LEU:HD21	13:CJ:67:LEU:HD23	1.78	0.64
13:Cs:72:GLU:CB	16:Cv:6:PRO:HA	2.28	0.64
13:Cx:317:LYS:NZ	13:Cx:359:ASP:OD2	2.30	0.64
17:C2:226:ARG:NH2	13:C8:323:THR:O	2.29	0.64
13:B6:323:THR:O	17:Bz:226:ARG:NH2	2.29	0.64
17:BG:158:ASN:ND2	17:BL:116:GLY:O	2.30	0.64
14:BI:157:ASN:OD1	14:BS:259:LEU:HG	1.97	0.64
17:Ba:158:ASN:ND2	17:Bf:116:GLY:O	2.30	0.64
3:4:89:TYR:HE2	7:Eq:188:LYS:CB	2.08	0.64
6:Al:40:ASP:OD1	6:Aq:25:ASN:ND2	2.30	0.64
6:Av:59:GLN:HE22	5:P:216:ARG:NH2	1.94	0.64
5:Y:94:ASP:HB2	5:Y:220:LEU:HD21	1.80	0.64
2:y:88:GLN:OE1	2:y:161:TYR:OH	2.14	0.64
16:B0:6:PRO:HA	13:B6:72:GLU:CB	2.28	0.64
13:CT:154:ASN:OD1	13:CT:166:SER:OG	2.13	0.64
14:CZ:157:ASN:OD1	14:Cj:259:LEU:HG	1.97	0.64
13:Ci:50:LEU:HD21	13:Ci:67:LEU:HD23	1.78	0.64
13:Ci:72:GLU:HG3	16:Cl:6:PRO:HA	1.79	0.64
13:Ci:317:LYS:NZ	13:Ci:359:ASP:OD2	2.30	0.64
14:Cy:157:ASN:OD1	14:C9:259:LEU:HG	1.96	0.64
17:B5:116:GLY:O	17:Bz:158:ASN:ND2	2.30	0.64
13:BH:334:ARG:CD	13:BM:353:GLU:HG2	2.26	0.64
14:BN:157:ASN:OD1	14:BX:259:LEU:HG	1.96	0.64
13:Bb:72:GLU:CB	16:Be:6:PRO:HA	2.28	0.64
13:Bq:72:GLU:CB	16:Bt:6:PRO:HA	2.28	0.64
7:Eb:194:ARG:HE	7:Eb:194:ARG:H	1.43	0.64
7:Ef:146:MET:SD	7:Ef:146:MET:N	2.70	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AI:335:ILE:HG13	7:AI:338:ALA:HB2	1.79	0.64
5:AZ:91:ASN:HD22	5:AZ:93:LEU:H	1.45	0.64
5:Aa:92:ALA:N	6:Ap:47:PHE:O	2.30	0.64
6:Ae:82:ARG:HH11	6:Ae:396:GLU:HG2	1.63	0.64
6:At:49:ASN:HD22	5:T:218:SER:HB3	1.62	0.64
17:CA:158:ASN:ND2	17:CF:116:GLY:O	2.30	0.64
14:A4:157:ASN:OD1	14:BD:259:LEU:HG	1.96	0.64
17:CN:158:ASN:ND2	17:CS:116:GLY:O	2.30	0.64
13:CY:72:GLU:CB	16:Cb:6:PRO:HA	2.28	0.64
13:Cx:72:GLU:CB	16:C1:6:PRO:HA	2.28	0.64
13:B1:72:GLU:CB	16:B4:6:PRO:HA	2.28	0.64
13:BC:72:GLU:CB	16:BF:6:PRO:HA	2.28	0.64
13:BH:317:LYS:NZ	13:BH:359:ASP:OD2	2.30	0.64
17:Bk:226:ARG:NH2	13:Bq:323:THR:O	2.28	0.64
18:Dk:245:ARG:HB2	18:Dk:260:VAL:HG11	1.77	0.64
18:Dn:138:SER:OG	18:Dn:148:ARG:NH1	2.31	0.64
18:Do:245:ARG:HB2	18:Do:260:VAL:HG11	1.78	0.64
3:6:9:LEU:HD21	3:6:80:LEU:HD21	1.80	0.64
3:6:71:GLN:HE22	7:Ef:151:SER:HB3	1.62	0.64
6:A3:386:SER:HA	5:Q:148:ILE:HG22	1.78	0.64
6:Ak:427:ASN:OD1	6:Aq:414:ARG:NH1	2.31	0.64
2:y:204:ASP:O	7:Ep:192:PHE:HA	1.96	0.64
13:CO:72:GLU:CB	16:CR:6:PRO:HA	2.28	0.64
17:CS:158:ASN:ND2	17:CX:116:GLY:O	2.30	0.64
13:C8:50:LEU:HD21	13:C8:67:LEU:HD23	1.78	0.64
13:B1:96:ARG:HG2	13:B1:97:ARG:HG3	1.79	0.64
14:BD:157:ASN:OD1	14:BN:259:LEU:HG	1.97	0.64
14:Bc:157:ASN:OD1	14:Bm:259:LEU:HG	1.96	0.64
17:Bk:158:ASN:ND2	17:Bp:116:GLY:O	2.30	0.64
7:Ei:178:ARG:NH1	7:Ei:207:LEU:O	2.30	0.64
5:AU:252:ASP:OD1	5:C:239:ARG:NH1	2.31	0.64
6:Ao:50:ALA:HA	6:Ao:53:THR:HB	1.80	0.64
6:Ay:370:SER:OG	5:T:166:GLN:OE1	2.15	0.64
13:B7:72:GLU:CB	16:CM:6:PRO:HA	2.28	0.64
13:B7:72:GLU:HG3	16:CM:6:PRO:HA	1.79	0.64
13:CJ:72:GLU:CB	16:A6:6:PRO:HA	2.28	0.64
13:CJ:96:ARG:HG2	13:CJ:97:ARG:HG3	1.79	0.64
13:BH:72:GLU:CB	16:BK:6:PRO:HA	2.28	0.64
13:BH:72:GLU:HG3	16:BK:6:PRO:HA	1.79	0.64
13:Bq:96:ARG:HG2	13:Bq:97:ARG:HG3	1.79	0.64
7:EY:239:VAL:HB	7:EY:247:LEU:HB2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AS:94:ASP:HB2	5:AS:220:LEU:HD21	1.80	0.64
5:AV:246:LYS:NZ	5:Y:262:LEU:OXT	2.30	0.64
6:Am:101:ASN:OD1	6:Am:377:LYS:NZ	2.31	0.64
13:CB:72:GLU:CB	16:CE:6:PRO:HA	2.28	0.64
13:CB:72:GLU:HG3	16:CE:6:PRO:HA	1.79	0.64
16:CH:6:PRO:HA	13:C8:72:GLU:HG3	1.79	0.64
13:A8:96:ARG:HG2	13:A8:97:ARG:HG3	1.79	0.64
14:A9:157:ASN:OD1	14:BI:259:LEU:HG	1.96	0.64
13:CO:72:GLU:HG3	16:CR:6:PRO:HA	1.79	0.64
17:Cw:158:ASN:ND2	17:C2:116:GLY:O	2.30	0.64
13:B1:323:THR:O	17:Bu:226:ARG:NH2	2.28	0.64
13:B6:96:ARG:HG2	13:B6:97:ARG:HG3	1.79	0.64
17:BG:226:ARG:NH2	13:BM:323:THR:O	2.28	0.64
14:BS:157:ASN:OD1	14:Bc:259:LEU:HG	1.96	0.64
13:BW:72:GLU:CB	16:BZ:6:PRO:HA	2.28	0.64
17:Bf:226:ARG:NH2	13:Bl:323:THR:O	2.29	0.64
14:Bm:157:ASN:OD1	14:Bw:259:LEU:HG	1.97	0.64
13:Bv:72:GLU:CB	16:By:6:PRO:HA	2.28	0.64
13:Bv:96:ARG:HG2	13:Bv:97:ARG:HG3	1.80	0.64
13:Bv:317:LYS:NZ	13:Bv:359:ASP:OD2	2.30	0.64
18:Dr:138:SER:OG	18:Dr:148:ARG:NH1	2.31	0.64
20:D8:9:ARG:O	20:D8:10:HIS:C	2.41	0.64
2:3:198:MET:HE2	2:y:144:PHE:HB2	1.80	0.64
6:A1:372:GLN:CD	5:V:168:ASN:OD1	2.40	0.64
6:A3:59:GLN:CD	5:X:219:MET:HE1	2.23	0.64
6:Ar:42:TYR:CE2	6:Aw:362:LYS:HD2	2.32	0.64
2:z:244:VAL:HG11	2:z:262:SER:HB3	1.80	0.64
13:CB:96:ARG:HG2	13:CB:97:ARG:HG3	1.79	0.64
13:CT:317:LYS:NZ	13:CT:359:ASP:OD2	2.30	0.64
13:C3:50:LEU:HD21	13:C3:67:LEU:HD23	1.78	0.64
13:C8:96:ARG:HG2	13:C8:97:ARG:HG3	1.79	0.64
13:BC:96:ARG:HG2	13:BC:97:ARG:HG3	1.79	0.64
13:BM:317:LYS:NZ	13:BM:359:ASP:OD2	2.30	0.64
17:BV:158:ASN:ND2	17:Ba:116:GLY:O	2.30	0.64
14:BX:157:ASN:OD1	14:Bh:259:LEU:HG	1.96	0.64
6:J:330:GLU:OE2	6:J:331:ASN:ND2	2.31	0.64
6:O:131:ASP:N	6:O:131:ASP:OD1	2.29	0.64
5:X:91:ASN:HD22	5:X:93:LEU:H	1.46	0.64
17:CA:116:GLY:O	17:B5:158:ASN:ND2	2.30	0.64
13:CB:317:LYS:NZ	13:CB:359:ASP:OD2	2.30	0.64
13:CJ:317:LYS:NZ	13:CJ:359:ASP:OD2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CT:72:GLU:HG3	16:CW:6:PRO:HA	1.79	0.64
13:Cn:72:GLU:CB	16:Cq:6:PRO:HA	2.28	0.64
13:Cs:154:ASN:OD1	13:Cs:166:SER:OG	2.13	0.64
13:B1:154:ASN:OD1	13:B1:166:SER:OG	2.13	0.64
13:BR:72:GLU:CB	16:BU:6:PRO:HA	2.28	0.64
21:ED:17:ASN:CB	7:Ey:306:THR:HG21	2.28	0.64
2:1:85:VAL:HA	2:1:88:GLN:HE21	1.63	0.63
2:1:239:ILE:HG23	3:6:17:VAL:HG12	1.79	0.63
6:A3:427:ASN:ND2	5:S:235:ILE:CG2	2.58	0.63
5:Aa:91:ASN:HD22	5:Aa:93:LEU:H	1.45	0.63
6:Ab:77:ASN:HD21	6:Ab:79:MET:HB2	1.63	0.63
6:Ad:366:THR:HG23	6:M:40:ASP:H	1.63	0.63
2:z:187:THR:O	7:EY:192:PHE:HB3	1.98	0.63
16:B0:6:PRO:HA	13:B6:72:GLU:HG3	1.79	0.63
17:CN:226:ARG:NH2	13:CT:323:THR:O	2.28	0.63
13:Cn:50:LEU:HD21	13:Cn:67:LEU:HD23	1.78	0.63
13:C3:72:GLU:HG3	16:C6:6:PRO:HA	1.79	0.63
13:C3:72:GLU:CB	16:C6:6:PRO:HA	2.28	0.63
13:BH:96:ARG:HG2	13:BH:97:ARG:HG3	1.79	0.63
14:Bh:157:ASN:OD1	14:Br:259:LEU:HG	1.96	0.63
13:Bl:72:GLU:HG3	16:Bo:6:PRO:HA	1.79	0.63
13:Bl:96:ARG:HG2	13:Bl:97:ARG:HG3	1.79	0.63
17:Bp:226:ARG:NH2	13:Bv:323:THR:O	2.28	0.63
18:Dg:245:ARG:HB2	18:Dg:260:VAL:HG11	1.77	0.63
20:D8:3:LEU:H	7:EM:319:SER:HB3	1.62	0.63
7:Ea:178:ARG:NH1	7:Ea:207:LEU:O	2.31	0.63
7:Er:246:LEU:HD12	7:Es:220:SER:HA	1.80	0.63
6:A2:46:LEU:HD11	5:a:150:ILE:HG13	1.78	0.63
6:A3:37:GLU:HG2	5:Q:119:GLN:NE2	2.13	0.63
6:A3:48:THR:HG21	5:X:82:THR:OG1	1.97	0.63
6:Am:40:ASP:H	6:Ar:366:THR:HG23	1.62	0.63
6:Aw:433:ILE:HD13	5:Q:228:THR:HG23	1.80	0.63
13:B7:323:THR:O	17:CA:226:ARG:NH2	2.28	0.63
16:CH:6:PRO:HA	13:C8:72:GLU:CB	2.28	0.63
13:Cs:50:LEU:HD21	13:Cs:67:LEU:HD23	1.78	0.63
13:Cx:50:LEU:HD21	13:Cx:67:LEU:HD23	1.78	0.63
13:C8:206:VAL:HG23	14:C9:36:ALA:CA	2.29	0.63
13:BM:72:GLU:HG3	16:BP:6:PRO:HA	1.79	0.63
13:BM:72:GLU:CB	16:BP:6:PRO:HA	2.28	0.63
13:BM:96:ARG:HG2	13:BM:97:ARG:HG3	1.79	0.63
18:DX:283:ARG:NH2	19:Da:106:GLY:HA3	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:183:MET:HE1	2:1:215:ILE:HG12	1.80	0.63
5:AZ:239:ARG:HH12	6:Ay:431:GLN:HE21	1.44	0.63
6:Am:327:ASP:N	6:Am:327:ASP:OD1	2.30	0.63
13:B7:96:ARG:HG2	13:B7:97:ARG:HG3	1.79	0.63
14:A4:259:LEU:HG	14:C4:157:ASN:OD1	1.96	0.63
13:Cd:72:GLU:HG3	16:Cg:6:PRO:HA	1.79	0.63
13:Cs:206:VAL:HG23	14:Ct:36:ALA:CA	2.29	0.63
13:C3:96:ARG:HG2	13:C3:97:ARG:HG3	1.79	0.63
13:BH:206:VAL:HG23	14:BI:36:ALA:CA	2.29	0.63
13:BW:206:VAL:HG23	14:BX:36:ALA:CA	2.29	0.63
17:Bp:158:ASN:ND2	17:Bu:116:GLY:O	2.30	0.63
18:Dv:283:ARG:NH2	19:Dy:106:GLY:HA3	2.14	0.63
5:AZ:239:ARG:NH1	6:Ay:431:GLN:HE21	1.96	0.63
6:Ac:343:ASN:HD22	6:F:372:GLN:HB2	1.63	0.63
9:i:108:MET:HE2	10:n:231:MET:HE2	1.79	0.63
13:CJ:206:VAL:HG23	14:A4:36:ALA:CA	2.29	0.63
13:Ci:72:GLU:CB	16:Cl:6:PRO:HA	2.28	0.63
13:Cx:96:ARG:HG2	13:Cx:97:ARG:HG3	1.79	0.63
13:B1:72:GLU:HG3	16:B4:6:PRO:HA	1.79	0.63
13:BC:206:VAL:HG23	14:BD:36:ALA:CA	2.29	0.63
13:Bg:96:ARG:HG2	13:Bg:97:ARG:HG3	1.79	0.63
13:Bl:206:VAL:HG23	14:Bm:36:ALA:CA	2.29	0.63
18:DT:283:ARG:NH2	19:DW:106:GLY:HA3	2.14	0.63
18:Db:283:ARG:NH2	19:De:106:GLY:HA3	2.14	0.63
18:Df:283:ARG:NH2	19:Di:106:GLY:HA3	2.14	0.63
2:2:184:LEU:HG	2:2:214:LEU:HD11	1.81	0.63
6:Au:415:ASN:O	6:Au:419:ASN:ND2	2.31	0.63
5:a:24:ASN:ND2	5:a:34:TYR:OH	2.31	0.63
17:CF:226:ARG:NH2	13:CO:323:THR:O	2.29	0.63
13:Cd:72:GLU:CB	16:Cg:6:PRO:HA	2.28	0.63
13:Cd:206:VAL:HG23	14:Ce:36:ALA:CA	2.29	0.63
13:Ci:206:VAL:HG23	14:Cj:36:ALA:CA	2.29	0.63
13:BC:154:ASN:OD1	13:BC:166:SER:OG	2.13	0.63
18:Dv:138:SER:OG	18:Dv:148:ARG:NH1	2.31	0.63
21:EA:14:GLU:CB	7:EK:306:THR:CG2	2.74	0.63
3:7:50:SER:O	3:7:54:ARG:NH1	2.31	0.63
4:8:186:SER:HA	4:8:189:LEU:HD23	1.80	0.63
6:A3:45:SER:OG	5:X:83:HIS:ND1	2.32	0.63
5:AQ:176:ILE:HD11	5:AQ:212:LEU:HB3	1.79	0.63
6:Ap:40:ASP:H	6:Au:366:THR:HG23	1.64	0.63
6:Av:49:ASN:HD22	5:V:218:SER:CB	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:84:SER:OG	6:F:391:ASN:ND2	2.32	0.63
6:I:415:ASN:O	6:I:419:ASN:ND2	2.32	0.63
13:CB:206:VAL:HG23	14:CC:36:ALA:CA	2.29	0.63
13:CT:206:VAL:HG23	14:CU:36:ALA:CA	2.29	0.63
17:Ch:226:ARG:NH2	13:Cn:323:THR:O	2.29	0.63
13:Cx:206:VAL:HG23	14:Cy:36:ALA:CA	2.29	0.63
13:BR:96:ARG:HG2	13:BR:97:ARG:HG3	1.79	0.63
13:BR:206:VAL:HG23	14:BS:36:ALA:CA	2.29	0.63
13:Bv:206:VAL:HG23	14:Bw:36:ALA:CA	2.29	0.63
18:DP:283:ARG:NH2	19:DS:106:GLY:HA3	2.14	0.63
6:A1:82:ARG:HH11	6:A1:396:GLU:HG2	1.62	0.63
6:A3:425:VAL:HG13	5:Q:238:GLN:OE1	1.97	0.63
5:AZ:228:THR:HG23	6:At:433:ILE:HD13	1.81	0.63
6:Ax:174:ASP:HB3	6:Ax:177:GLN:HB2	1.81	0.63
6:M:327:ASP:N	6:M:327:ASP:OD1	2.31	0.63
5:V:91:ASN:HD22	5:V:93:LEU:H	1.45	0.63
8:c:85:GLN:OE1	10:n:54:ARG:NH2	2.31	0.63
14:A9:259:LEU:HG	14:C9:157:ASN:OD1	1.96	0.63
13:CY:72:GLU:HG3	16:Cb:6:PRO:HA	1.79	0.63
13:Bb:154:ASN:OD1	13:Bb:166:SER:OG	2.13	0.63
13:Bg:206:VAL:HG23	14:Bh:36:ALA:CA	2.29	0.63
13:Bv:72:GLU:HG3	16:By:6:PRO:HA	1.79	0.63
18:DH:283:ARG:NH2	19:DK:106:GLY:HA3	2.14	0.63
18:Dj:283:ARG:NH2	19:Dm:106:GLY:HA3	2.14	0.63
7:Ec:201:ALA:HB2	7:Ec:232:MET:HE1	1.80	0.63
6:A2:33:GLU:HB3	6:A2:400:ILE:HG22	1.81	0.63
6:Ac:84:SER:OG	6:Ac:391:ASN:ND2	2.32	0.63
6:Ad:327:ASP:N	6:Ad:327:ASP:OD1	2.31	0.63
6:At:427:ASN:OD1	6:Az:414:ARG:NH1	2.32	0.63
13:Cs:96:ARG:HG2	13:Cs:97:ARG:HG3	1.79	0.63
13:B1:206:VAL:HG23	14:B2:36:ALA:CA	2.29	0.63
13:Bb:96:ARG:HG2	13:Bb:97:ARG:HG3	1.79	0.63
13:Bb:317:LYS:NZ	13:Bb:359:ASP:OD2	2.30	0.63
18:Dr:283:ARG:NH2	19:Du:106:GLY:HA3	2.14	0.63
7:Eg:164:GLU:HG2	7:Eg:184:LEU:HD13	1.80	0.63
6:Ab:40:ASP:H	6:Ag:366:THR:HG23	1.63	0.63
6:As:109:PHE:HE1	6:As:119:THR:HG22	1.63	0.63
8:f:30:ILE:HG23	8:f:96:LEU:HD11	1.80	0.63
10:n:157:GLU:CG	17:BG:76:LYS:HZ3	2.11	0.63
13:CO:96:ARG:HG2	13:CO:97:ARG:HG3	1.80	0.63
6:Ao:39:ALA:HB1	6:At:365:GLY:HA2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Av:49:ASN:HD22	5:V:218:SER:HB3	1.63	0.62
6:Ax:59:GLN:HE22	5:S:216:ARG:HH21	1.47	0.62
6:Ay:59:GLN:CD	5:T:219:MET:CE	2.71	0.62
6:K:330:GLU:OE2	6:K:331:ASN:ND2	2.32	0.62
2:y:288:ALA:HB3	7:Er:192:PHE:CA	2.24	0.62
13:Bq:72:GLU:HG3	16:Bt:6:PRO:HA	1.79	0.62
18:DD:283:ARG:NH2	19:DG:106:GLY:HA3	2.14	0.62
6:As:39:ALA:HB1	6:Ax:365:GLY:HA2	1.81	0.62
6:As:430:GLN:OE1	6:Ay:414:ARG:NH1	2.33	0.62
5:W:104:GLN:NE2	5:W:177:THR:OG1	2.32	0.62
9:i:43:LYS:HG2	9:i:77:LEU:HD21	1.80	0.62
10:p:137:LYS:NZ	10:p:139:GLU:OE2	2.33	0.62
13:CO:206:VAL:HG23	14:CP:36:ALA:CA	2.29	0.62
13:Cs:317:LYS:NZ	13:Cs:359:ASP:OD2	2.30	0.62
13:Cx:321:TRP:HE1	13:Cx:374:ASN:HD22	1.47	0.62
13:C3:321:TRP:HE1	13:C3:374:ASN:HD22	1.47	0.62
17:BQ:226:ARG:NH2	13:BW:323:THR:O	2.28	0.62
7:Et:153:ARG:HA	7:Et:153:ARG:HE	1.64	0.62
5:AT:94:ASP:HB2	5:AT:220:LEU:HD21	1.81	0.62
6:Ae:174:ASP:HB3	6:Ae:177:GLN:HB2	1.80	0.62
5:W:99:GLY:O	5:W:116:ARG:NH2	2.33	0.62
13:BW:96:ARG:HG2	13:BW:97:ARG:HG3	1.80	0.62
13:Bb:206:VAL:HG23	14:Bc:36:ALA:CA	2.29	0.62
7:Ef:217:GLU:O	7:Ef:220:SER:OG	2.15	0.62
6:Ab:366:THR:HG23	6:K:40:ASP:H	1.65	0.62
6:Ae:238:GLY:O	6:Ae:241:GLN:NE2	2.31	0.62
6:Aj:38:PHE:HB2	6:Ao:28:THR:HG22	1.81	0.62
6:G:33:GLU:HB3	6:G:400:ILE:HG22	1.79	0.62
5:Z:99:GLY:O	5:Z:116:ARG:NH2	2.32	0.62
10:m:91:LEU:HD23	10:m:122:LEU:HD21	1.80	0.62
12:x:76:ALA:HB3	7:Eo:152:GLN:NE2	2.06	0.62
18:CG:138:SER:OG	18:CG:148:ARG:NH1	2.31	0.62
18:CG:283:ARG:NH2	19:DC:106:GLY:HA3	2.14	0.62
13:CO:154:ASN:OD1	13:CO:166:SER:OG	2.13	0.62
13:CT:96:ARG:HG2	13:CT:97:ARG:HG3	1.79	0.62
13:Cd:317:LYS:NZ	13:Cd:359:ASP:OD2	2.30	0.62
13:Ci:96:ARG:HG2	13:Ci:97:ARG:HG3	1.79	0.62
13:Cn:96:ARG:HG2	13:Cn:97:ARG:HG3	1.79	0.62
13:C3:206:VAL:HG23	14:C4:36:ALA:CA	2.29	0.62
13:C8:321:TRP:HE1	13:C8:374:ASN:HD22	1.47	0.62
13:BM:206:VAL:HG23	14:BN:36:ALA:CA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DL:283:ARG:NH2	19:DO:106:GLY:HA3	2.14	0.62
7:EZ:241:ASP:OD1	7:EZ:245:ARG:N	2.32	0.62
7:Ed:139:ASP:N	7:Ed:139:ASP:OD1	2.31	0.62
5:Aa:161:ARG:HG2	5:Aa:168:ASN:HB3	1.80	0.62
6:Ab:414:ARG:NH1	6:J:427:ASN:OD1	2.32	0.62
6:Ao:46:LEU:HD13	6:Az:353:ARG:NH1	2.15	0.62
6:Ar:6:LEU:HD13	6:Ax:407:VAL:HG11	1.80	0.62
6:Au:327:ASP:N	6:Au:327:ASP:OD1	2.30	0.62
13:B7:206:VAL:HG23	14:CK:36:ALA:CA	2.29	0.62
13:Cn:206:VAL:HG23	14:Co:36:ALA:CA	2.29	0.62
13:Cs:321:TRP:HE1	13:Cs:374:ASN:HD22	1.47	0.62
7:Em:218:VAL:HG21	7:Em:247:LEU:HB3	1.81	0.62
5:Aa:115:THR:HB	5:Aa:192:LEU:HD23	1.81	0.62
6:Ae:327:ASP:N	6:Ae:327:ASP:OD1	2.31	0.62
6:Ax:46:LEU:HD11	5:X:150:ILE:CG1	2.29	0.62
13:Cd:96:ARG:HG2	13:Cd:97:ARG:HG3	1.80	0.62
2:2:103:VAL:O	2:2:107:THR:OG1	2.18	0.62
6:Ad:365:GLY:HA2	6:M:39:ALA:HB1	1.80	0.62
6:Al:101:ASN:OD1	6:Al:377:LYS:NZ	2.32	0.62
14:B8:36:ALA:CA	13:B6:206:VAL:HG23	2.29	0.62
17:BL:226:ARG:NH2	13:BR:323:THR:O	2.28	0.62
18:Dn:283:ARG:NH2	19:Dq:106:GLY:HA3	2.14	0.62
6:A1:86:THR:HG21	6:A1:353:ARG:HH11	1.64	0.62
6:Ai:427:ASN:OD1	6:Ao:414:ARG:NH1	2.32	0.62
6:Ao:47:PHE:CD2	6:Az:67:PHE:HB2	2.34	0.62
6:F:33:GLU:HB3	6:F:400:ILE:HG22	1.81	0.62
5:V:58:GLN:NE2	17:CA:76:LYS:HZ2	1.96	0.62
13:B7:321:TRP:HE1	13:B7:374:ASN:HD22	1.46	0.62
13:A8:206:VAL:HG23	14:A9:36:ALA:CA	2.29	0.62
13:CY:96:ARG:HG2	13:CY:97:ARG:HG3	1.79	0.62
13:B1:353:GLU:OE2	13:Bv:233:HIS:NE2	2.33	0.62
13:Bq:317:LYS:NZ	13:Bq:359:ASP:OD2	2.30	0.62
7:Ep:200:SER:OG	7:Eq:227:SER:OG	2.18	0.62
6:Ak:196:ASP:OD1	6:Ak:200:GLN:N	2.29	0.62
6:Ap:52:THR:HG21	6:Au:60:ALA:HB1	1.80	0.62
9:i:61:ASP:OD1	9:i:61:ASP:N	2.33	0.62
13:CJ:321:TRP:HE1	13:CJ:374:ASN:HD22	1.47	0.62
13:CO:233:HIS:NE2	13:CT:353:GLU:OE2	2.33	0.62
13:CO:321:TRP:HE1	13:CO:374:ASN:HD22	1.47	0.62
15:Cp:134:VAL:HG12	13:Cs:70:LEU:HD12	1.82	0.62
13:BW:233:HIS:NE2	13:Bb:353:GLU:OE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bb:233:HIS:NE2	13:Bg:353:GLU:OE2	2.33	0.62
13:Bg:321:TRP:HE1	13:Bg:374:ASN:HD22	1.47	0.62
13:Bq:206:VAL:HG23	14:Br:36:ALA:CA	2.29	0.62
7:Er:176:GLN:OE1	7:Er:176:GLN:N	2.32	0.62
6:A2:407:VAL:HG11	6:Av:6:LEU:HD13	1.81	0.62
6:A3:429:LEU:HD22	5:Q:241:TYR:CD1	2.35	0.62
6:Ao:327:ASP:OD1	6:Ao:327:ASP:N	2.32	0.62
6:H:37:GLU:HG2	6:M:29:TYR:HE2	1.65	0.62
8:d:35:THR:O	8:d:92:ASN:ND2	2.33	0.62
11:w:71:MET:O	11:w:75:ASN:ND2	2.30	0.62
13:B7:233:HIS:NE2	13:CO:353:GLU:OE2	2.33	0.62
15:CL:134:VAL:HG12	13:CO:70:LEU:HD12	1.82	0.62
13:CT:321:TRP:HE1	13:CT:374:ASN:HD22	1.47	0.62
15:Ca:134:VAL:HG12	13:Cd:70:LEU:HD12	1.82	0.62
13:Cn:321:TRP:HE1	13:Cn:374:ASN:HD22	1.47	0.62
15:Cu:134:VAL:HG12	13:Cx:70:LEU:HD12	1.82	0.62
15:Cz:134:VAL:HG12	13:C3:70:LEU:HD12	1.82	0.62
13:BR:321:TRP:HE1	13:BR:374:ASN:HD22	1.46	0.62
13:BW:321:TRP:HE1	13:BW:374:ASN:HD22	1.47	0.62
13:Bl:321:TRP:HE1	13:Bl:374:ASN:HD22	1.47	0.62
7:Eb:164:GLU:OE2	7:Eb:184:LEU:N	2.33	0.62
7:Eh:241:ASP:OD1	7:Eh:244:GLY:N	2.33	0.62
5:AU:133:SER:OG	5:AU:190:GLN:NE2	2.30	0.61
5:AX:43:ASP:OD1	5:AX:43:ASP:N	2.32	0.61
6:Ag:427:ASN:OD1	6:Am:414:ARG:NH1	2.33	0.61
14:B8:157:ASN:OD1	14:CK:259:LEU:CG	2.48	0.61
13:CO:317:LYS:NZ	13:CO:359:ASP:OD2	2.30	0.61
13:CT:233:HIS:NE2	13:CY:353:GLU:OE2	2.33	0.61
13:CY:206:VAL:HG23	14:CZ:36:ALA:CA	2.29	0.61
15:Cf:134:VAL:HG12	13:Ci:70:LEU:HD12	1.82	0.61
14:Cj:35:ASP:HB3	14:Cj:38:GLU:HG2	1.83	0.61
15:Ck:134:VAL:HG12	13:Cn:70:LEU:HD12	1.82	0.61
14:Co:35:ASP:HB3	14:Co:38:GLU:HG2	1.82	0.61
13:B1:233:HIS:NE2	13:B6:353:GLU:OE2	2.33	0.61
13:B6:317:LYS:NZ	13:B6:359:ASP:OD2	2.30	0.61
17:Bu:97:PRO:HD3	17:Bu:173:GLU:HG3	1.82	0.61
14:Bw:35:ASP:HB3	14:Bw:38:GLU:HG2	1.83	0.61
7:EY:218:VAL:HG21	7:EY:247:LEU:HB3	1.81	0.61
5:A:133:SER:OG	5:A:190:GLN:NE2	2.33	0.61
7:AI:334:GLY:O	7:AI:335:ILE:C	2.40	0.61
6:Af:327:ASP:OD1	6:Af:327:ASP:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ay:59:GLN:HE22	5:T:216:ARG:NH2	1.96	0.61
6:K:82:ARG:HH11	6:K:396:GLU:HG2	1.65	0.61
9:h:17:GLU:OE1	9:h:20:ARG:NH2	2.32	0.61
2:z:206:PRO:HG3	7:EX:192:PHE:CD2	2.35	0.61
13:B7:70:LEU:HD12	15:CD:134:VAL:HG12	1.82	0.61
15:B9:134:VAL:HG12	13:CB:70:LEU:HD12	1.82	0.61
13:CB:321:TRP:HE1	13:CB:374:ASN:HD22	1.47	0.61
15:CQ:134:VAL:HG12	13:CT:70:LEU:HD12	1.83	0.61
15:CV:134:VAL:HG12	13:CY:70:LEU:HD12	1.83	0.61
14:Ce:35:ASP:HB3	14:Ce:38:GLU:HG2	1.82	0.61
14:Cj:157:ASN:OD1	14:Ct:259:LEU:CG	2.48	0.61
15:C5:134:VAL:HG12	13:C8:70:LEU:HD12	1.83	0.61
17:Bp:97:PRO:HD3	17:Bp:173:GLU:HG3	1.82	0.61
13:Bq:233:HIS:NE2	13:Bv:353:GLU:OE2	2.33	0.61
13:Bv:321:TRP:HE1	13:Bv:374:ASN:HD22	1.46	0.61
7:Ek:241:ASP:OD2	7:Ek:245:ARG:NH1	2.33	0.61
3:4:59:LEU:HD13	12:x:90:LEU:HD22	1.82	0.61
3:5:15:TRP:NE1	7:EZ:148:PHE:HB3	2.15	0.61
6:A1:427:ASN:HD22	5:P:235:ILE:HG21	1.61	0.61
6:A3:416:PHE:HZ	6:Ax:433:ILE:HD11	1.65	0.61
5:AZ:115:THR:HB	5:AZ:192:LEU:HD23	1.82	0.61
10:m:11:GLY:O	10:m:15:ASN:ND2	2.31	0.61
14:CK:35:ASP:HB3	14:CK:38:GLU:HG2	1.83	0.61
14:CU:157:ASN:OD1	14:Ce:259:LEU:CG	2.49	0.61
13:CY:321:TRP:HE1	13:CY:374:ASN:HD22	1.46	0.61
14:C4:35:ASP:HB3	14:C4:38:GLU:HG2	1.82	0.61
14:B2:35:ASP:HB3	14:B2:38:GLU:HG2	1.83	0.61
13:BR:233:HIS:NE2	13:BW:353:GLU:OE2	2.33	0.61
13:Bb:321:TRP:HE1	13:Bb:374:ASN:HD22	1.47	0.61
14:Bm:157:ASN:OD1	14:Bw:259:LEU:CG	2.49	0.61
14:Br:35:ASP:HB3	14:Br:38:GLU:HG2	1.83	0.61
17:Bz:97:PRO:HD3	17:Bz:173:GLU:HG3	1.82	0.61
6:A1:62:GLN:OE1	5:Aa:131:SER:O	2.19	0.61
7:AD:341:ASN:ND2	7:EK:366:SER:N	2.44	0.61
5:AW:123:ASN:HD21	5:AW:127:THR:HB	1.65	0.61
14:B8:259:LEU:CG	14:Bw:157:ASN:OD1	2.49	0.61
13:CJ:70:LEU:HD12	15:C0:134:VAL:HG12	1.83	0.61
13:A8:321:TRP:HE1	13:A8:374:ASN:HD22	1.47	0.61
14:CP:35:ASP:HB3	14:CP:38:GLU:HG2	1.83	0.61
13:Cn:233:HIS:NE2	13:Cs:353:GLU:OE2	2.33	0.61
14:Ct:157:ASN:OD1	14:C4:259:LEU:CG	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Cy:35:ASP:HB3	14:Cy:38:GLU:HG2	1.83	0.61
14:B2:259:LEU:CG	14:Br:157:ASN:OD1	2.49	0.61
17:B5:97:PRO:HD3	17:B5:173:GLU:HG3	1.82	0.61
13:Bg:233:HIS:NE2	13:Bl:353:GLU:OE2	2.33	0.61
17:Bk:97:PRO:HD3	17:Bk:173:GLU:HG3	1.82	0.61
13:Bl:233:HIS:NE2	13:Bq:353:GLU:OE2	2.33	0.61
13:Bq:321:TRP:HE1	13:Bq:374:ASN:HD22	1.46	0.61
18:DD:138:SER:OG	18:DD:148:ARG:NH1	2.31	0.61
5:AY:115:THR:HB	5:AY:192:LEU:HD23	1.81	0.61
5:AY:227:VAL:HG21	6:As:430:GLN:HE21	1.64	0.61
6:Av:327:ASP:N	6:Av:327:ASP:OD1	2.33	0.61
6:G:130:VAL:HG12	6:G:137:VAL:HA	1.82	0.61
14:CC:35:ASP:HB3	14:CC:38:GLU:HG2	1.83	0.61
14:CC:157:ASN:OD1	14:CP:259:LEU:CG	2.48	0.61
15:A5:134:VAL:HG12	13:A8:70:LEU:HD12	1.82	0.61
14:CK:157:ASN:OD1	14:CU:259:LEU:CG	2.48	0.61
14:CP:157:ASN:OD1	14:CZ:259:LEU:CG	2.49	0.61
13:CT:362:ASN:O	18:DI:91:MET:HE1	2.01	0.61
14:CZ:157:ASN:OD1	14:Cj:259:LEU:CG	2.49	0.61
13:Ci:233:HIS:NE2	13:Cn:353:GLU:OE2	2.33	0.61
14:Ct:35:ASP:HB3	14:Ct:38:GLU:HG2	1.82	0.61
13:BR:362:ASN:O	18:Dk:91:MET:HE1	2.01	0.61
14:BX:35:ASP:HB3	14:BX:38:GLU:HG2	1.83	0.61
14:BX:157:ASN:OD1	14:Bh:259:LEU:CG	2.48	0.61
13:Bb:362:ASN:O	18:Do:91:MET:HE1	2.01	0.61
14:Bc:35:ASP:HB3	14:Bc:38:GLU:HG2	1.83	0.61
14:Bc:157:ASN:OD1	14:Bm:259:LEU:CG	2.48	0.61
14:Bh:35:ASP:HB3	14:Bh:38:GLU:HG2	1.82	0.61
14:Bm:35:ASP:HB3	14:Bm:38:GLU:HG2	1.82	0.61
18:DX:138:SER:OG	18:DX:148:ARG:NH1	2.31	0.61
6:A3:42:TYR:CE2	5:Q:187:PRO:HB2	2.35	0.61
5:AP:239:ARG:HG3	5:AT:255:MET:HE3	1.82	0.61
5:AZ:99:GLY:O	5:AZ:116:ARG:NH2	2.33	0.61
6:As:33:GLU:HB3	6:As:400:ILE:HG22	1.83	0.61
6:Au:49:ASN:ND2	5:U:218:SER:CB	2.62	0.61
6:N:238:GLY:O	6:N:241:GLN:NE2	2.34	0.61
5:P:123:ASN:HD21	5:P:127:THR:HB	1.65	0.61
13:B7:353:GLU:OE2	13:CB:233:HIS:NE2	2.33	0.61
14:CC:259:LEU:CG	14:B2:157:ASN:OD1	2.48	0.61
14:A4:259:LEU:CG	14:C4:157:ASN:OD1	2.48	0.61
13:A8:233:HIS:NE2	13:BC:353:GLU:OE2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cd:362:ASN:O	18:DM:91:MET:HE1	2.01	0.61
14:C9:35:ASP:HB3	14:C9:38:GLU:HG2	1.83	0.61
15:B3:134:VAL:HG12	13:B6:70:LEU:HD12	1.82	0.61
13:B6:321:TRP:HE1	13:B6:374:ASN:HD22	1.47	0.61
17:Bf:97:PRO:HD3	17:Bf:173:GLU:HG3	1.82	0.61
14:Bh:157:ASN:OD1	14:Br:259:LEU:CG	2.48	0.61
7:EY:176:GLN:OE1	7:EY:176:GLN:N	2.31	0.61
3:4:71:GLN:OE1	7:Es:151:SER:HB3	1.99	0.61
5:AZ:187:PRO:HB3	6:Az:42:TYR:HE1	1.63	0.61
6:Ae:84:SER:OG	6:Ae:391:ASN:ND2	2.34	0.61
6:Ap:427:ASN:OD1	6:Av:414:ARG:NH1	2.32	0.61
6:Ar:46:LEU:HD12	5:Q:150:ILE:HG13	1.82	0.61
6:G:39:ALA:HB1	6:L:365:GLY:HA2	1.83	0.61
2:z:103:VAL:O	2:z:107:THR:OG1	2.17	0.61
14:B8:35:ASP:HB3	14:B8:38:GLU:HG2	1.83	0.61
17:CA:97:PRO:HD3	17:CA:173:GLU:HG3	1.82	0.61
14:A4:157:ASN:OD1	14:BD:259:LEU:CG	2.48	0.61
14:CZ:35:ASP:HB3	14:CZ:38:GLU:HG2	1.83	0.61
13:Ci:321:TRP:HE1	13:Ci:374:ASN:HD22	1.47	0.61
13:Cn:362:ASN:O	18:DQ:91:MET:HE1	2.01	0.61
13:Cs:233:HIS:NE2	13:Cx:353:GLU:OE2	2.33	0.61
17:C2:97:PRO:HD3	17:C2:173:GLU:HG3	1.82	0.61
17:C7:97:PRO:HD3	17:C7:173:GLU:HG3	1.82	0.61
13:C8:362:ASN:O	18:DY:91:MET:HE1	2.01	0.61
13:BC:233:HIS:NE2	13:BH:353:GLU:OE2	2.33	0.61
14:BD:35:ASP:HB3	14:BD:38:GLU:HG2	1.82	0.61
13:BH:362:ASN:O	18:Dg:91:MET:HE1	2.01	0.61
14:BI:35:ASP:HB3	14:BI:38:GLU:HG2	1.83	0.61
14:BN:157:ASN:OD1	14:BX:259:LEU:CG	2.49	0.61
6:A1:371:THR:HG22	5:V:161:ARG:NE	2.16	0.61
6:A2:366:THR:HG23	6:Aw:40:ASP:H	1.65	0.61
5:AT:99:GLY:O	5:AT:116:ARG:NH2	2.33	0.61
6:Ak:40:ASP:H	6:Ap:366:THR:HG23	1.66	0.61
6:Av:371:THR:HG22	5:P:161:ARG:HH22	1.63	0.61
6:Az:59:GLN:HE22	5:U:216:ARG:NH2	1.97	0.61
5:B:246:LYS:HE3	10:o:215:MET:HE2	1.82	0.61
9:k:108:MET:HE2	10:p:231:MET:HE2	1.83	0.61
13:B7:362:ASN:O	18:DE:91:MET:HE1	2.01	0.61
13:CB:353:GLU:OE2	13:B6:233:HIS:NE2	2.33	0.61
15:A0:134:VAL:HG12	13:BC:70:LEU:HD12	1.82	0.61
17:CI:97:PRO:HD3	17:CI:173:GLU:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CU:35:ASP:HB3	14:CU:38:GLU:HG2	1.83	0.61
14:CU:118:THR:HG22	14:CU:168:LYS:HG3	1.82	0.61
14:Ce:157:ASN:OD1	14:Co:259:LEU:CG	2.48	0.61
13:Cx:362:ASN:O	18:DU:91:MET:HE1	2.01	0.61
14:BN:35:ASP:HB3	14:BN:38:GLU:HG2	1.82	0.61
14:BS:35:ASP:HB3	14:BS:38:GLU:HG2	1.83	0.61
14:BS:118:THR:HG22	14:BS:168:LYS:HG3	1.83	0.61
15:Bd:134:VAL:HG12	13:Bg:70:LEU:HD12	1.82	0.61
15:Bn:134:VAL:HG12	13:Bq:70:LEU:HD12	1.82	0.61
1:0:136:ASP:HB2	7:AF:356:MET:HE3	1.82	0.61
7:AH:335:ILE:HB	7:AH:338:ALA:HB2	1.82	0.61
13:CJ:233:HIS:NE2	13:A8:353:GLU:OE2	2.33	0.61
14:CP:118:THR:HG22	14:CP:168:LYS:HG3	1.82	0.61
13:Cd:233:HIS:NE2	13:Ci:353:GLU:OE2	2.33	0.61
13:B1:70:LEU:HD12	15:Bx:134:VAL:HG12	1.82	0.61
13:B1:321:TRP:HE1	13:B1:374:ASN:HD22	1.47	0.61
14:BD:157:ASN:OD1	14:BN:259:LEU:CG	2.49	0.61
13:BH:321:TRP:HE1	13:BH:374:ASN:HD22	1.47	0.61
14:BI:118:THR:HG22	14:BI:168:LYS:HG3	1.82	0.61
17:BQ:97:PRO:HD3	17:BQ:173:GLU:HG3	1.82	0.61
17:BV:97:PRO:HD3	17:BV:173:GLU:HG3	1.82	0.61
14:BX:118:THR:HG22	14:BX:168:LYS:HG3	1.82	0.61
15:BY:134:VAL:HG12	13:Bb:70:LEU:HD12	1.82	0.61
15:Bi:134:VAL:HG12	13:Bl:70:LEU:HD12	1.82	0.61
13:Bl:362:ASN:O	18:Ds:91:MET:HE1	2.01	0.61
15:Bs:134:VAL:HG12	13:Bv:70:LEU:HD12	1.82	0.61
7:Eo:178:ARG:NH1	7:Eo:207:LEU:O	2.33	0.61
3:4:1:MET:N	3:4:1:MET:SD	2.73	0.61
3:7:89:TYR:CD2	7:Ed:190:SER:CB	2.83	0.61
5:AX:50:ASN:HB2	5:AX:66:LEU:H	1.66	0.61
6:Ae:366:THR:HG23	6:N:40:ASP:H	1.65	0.61
6:Ah:327:ASP:N	6:Ah:327:ASP:OD1	2.33	0.61
5:C:249:SER:OG	5:C:253:LYS:NZ	2.33	0.61
6:D:130:VAL:HG12	6:D:137:VAL:HA	1.82	0.61
14:A4:35:ASP:HB3	14:A4:38:GLU:HG2	1.83	0.61
14:A9:35:ASP:HB3	14:A9:38:GLU:HG2	1.83	0.61
13:CY:233:HIS:NE2	13:Cd:353:GLU:OE2	2.33	0.61
18:DA:91:MET:HE1	13:B6:362:ASN:O	2.01	0.61
15:BE:134:VAL:HG12	13:BH:70:LEU:HD12	1.82	0.61
15:BO:134:VAL:HG12	13:BR:70:LEU:HD12	1.82	0.61
15:BT:134:VAL:HG12	13:BW:70:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ba:97:PRO:HD3	17:Ba:173:GLU:HG3	1.82	0.61
13:Bv:362:ASN:O	18:Dw:91:MET:HE1	2.01	0.61
18:DQ:216:ASP:N	18:DQ:216:ASP:OD1	2.34	0.61
20:D6:2:GLY:C	20:D6:4:SER:H	2.09	0.61
20:D7:5:ARG:CB	7:EG:319:SER:HB3	2.30	0.61
20:D8:3:LEU:CB	7:EM:318:ARG:HG3	2.31	0.61
7:Ej:207:LEU:N	7:Ej:242:GLN:OE1	2.34	0.61
7:Em:215:GLN:NE2	7:Em:219:ASP:OD2	2.34	0.61
2:1:104:ILE:O	2:1:110:THR:OG1	2.19	0.60
3:7:31:ILE:HG13	3:7:57:VAL:HG11	1.81	0.60
6:Aq:39:ALA:HB1	6:Av:365:GLY:HA2	1.83	0.60
6:Aq:52:THR:HG21	6:Av:60:ALA:CB	2.30	0.60
6:K:238:GLY:O	6:K:241:GLN:NE2	2.33	0.60
14:A9:157:ASN:OD1	14:BI:259:LEU:CG	2.48	0.60
14:Co:118:THR:HG22	14:Co:168:LYS:HG3	1.82	0.60
14:Co:157:ASN:OD1	14:Cy:259:LEU:CG	2.48	0.60
13:BC:321:TRP:HE1	13:BC:374:ASN:HD22	1.46	0.60
13:BH:233:HIS:NE2	13:BM:353:GLU:OE2	2.33	0.60
13:BM:321:TRP:HE1	13:BM:374:ASN:HD22	1.47	0.60
14:Bh:118:THR:HG22	14:Bh:168:LYS:HG3	1.82	0.60
18:DM:216:ASP:OD1	18:DM:216:ASP:N	2.34	0.60
18:DU:216:ASP:OD1	18:DU:216:ASP:N	2.34	0.60
18:Db:138:SER:OG	18:Db:148:ARG:NH1	2.31	0.60
7:Ej:201:ALA:HB2	7:Ej:232:MET:HE1	1.83	0.60
2:1:141:LEU:HD11	2:1:280:LEU:HD22	1.82	0.60
2:1:244:VAL:HG11	2:1:262:SER:HB3	1.81	0.60
2:2:189:ILE:HD11	7:Ed:193:VAL:HA	1.82	0.60
3:4:71:GLN:OE1	7:Es:151:SER:OG	2.17	0.60
5:AU:24:ASN:ND2	5:AU:34:TYR:OH	2.33	0.60
6:Ag:40:ASP:H	6:Al:366:THR:HG23	1.66	0.60
6:Ak:402:MET:HB2	6:N:430:GLN:HE21	1.66	0.60
6:Aq:49:ASN:O	6:Aq:50:ALA:HB2	2.01	0.60
6:F:327:ASP:N	6:F:327:ASP:OD1	2.31	0.60
17:CF:97:PRO:HD3	17:CF:173:GLU:HG3	1.82	0.60
13:Cd:321:TRP:HE1	13:Cd:374:ASN:HD22	1.47	0.60
14:Ct:118:THR:HG22	14:Ct:168:LYS:HG3	1.82	0.60
14:BD:118:THR:HG22	14:BD:168:LYS:HG3	1.83	0.60
15:BJ:134:VAL:HG12	13:BM:70:LEU:HD12	1.83	0.60
13:BM:233:HIS:NE2	13:BR:353:GLU:OE2	2.33	0.60
18:DH:138:SER:OG	18:DH:148:ARG:NH1	2.31	0.60
18:DT:138:SER:OG	18:DT:148:ARG:NH1	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:EA:7:GLU:CB	7:EL:306:THR:CG2	2.71	0.60
7:Ei:163:ARG:HH12	7:Ej:183:LEU:HB3	1.65	0.60
22:2:301:PGT:H321	22:2:301:PGT:H132	1.82	0.60
6:A3:45:SER:OG	5:X:83:HIS:NE2	2.33	0.60
5:AS:104:GLN:NE2	5:AS:177:THR:OG1	2.34	0.60
5:B:123:ASN:HD21	5:B:127:THR:HB	1.66	0.60
9:i:100:ASN:HD22	9:i:103:GLU:H	1.49	0.60
9:k:75:LYS:O	9:k:98:ASN:ND2	2.34	0.60
17:CN:97:PRO:HD3	17:CN:173:GLU:HG3	1.82	0.60
17:Cc:97:PRO:HD3	17:Cc:173:GLU:HG3	1.82	0.60
17:Cw:97:PRO:HD3	17:Cw:173:GLU:HG3	1.82	0.60
13:Cx:233:HIS:NE2	13:C3:353:GLU:OE2	2.33	0.60
17:BL:97:PRO:HD3	17:BL:173:GLU:HG3	1.82	0.60
14:Bc:118:THR:HG22	14:Bc:168:LYS:HG3	1.82	0.60
18:DY:216:ASP:N	18:DY:216:ASP:OD1	2.34	0.60
19:Du:207:ARG:CD	18:Dw:293:VAL:HG23	2.32	0.60
6:A1:48:THR:HG22	5:V:82:THR:OG1	2.01	0.60
6:A3:37:GLU:HG2	5:Q:119:GLN:HE22	1.67	0.60
6:Af:365:GLY:HA2	6:O:39:ALA:HB1	1.84	0.60
6:Al:40:ASP:H	6:Aq:366:THR:HG23	1.67	0.60
5:R:43:ASP:OD1	5:R:43:ASP:N	2.32	0.60
5:S:99:GLY:O	5:S:116:ARG:NH2	2.34	0.60
5:T:36:LYS:HB3	5:T:225:VAL:HG12	1.82	0.60
13:CJ:353:GLU:OE2	13:C8:233:HIS:NE2	2.33	0.60
17:A7:97:PRO:HD3	17:A7:173:GLU:HG3	1.82	0.60
14:CK:118:THR:HG22	14:CK:168:LYS:HG3	1.82	0.60
17:CX:97:PRO:HD3	17:CX:173:GLU:HG3	1.82	0.60
14:CZ:118:THR:HG22	14:CZ:168:LYS:HG3	1.83	0.60
14:BN:118:THR:HG22	14:BN:168:LYS:HG3	1.82	0.60
14:BS:157:ASN:OD1	14:Bc:259:LEU:CG	2.49	0.60
18:DI:216:ASP:N	18:DI:216:ASP:OD1	2.34	0.60
18:Ds:216:ASP:N	18:Ds:216:ASP:OD1	2.34	0.60
18:Dw:216:ASP:OD1	18:Dw:216:ASP:N	2.34	0.60
7:Ea:206:THR:OG1	7:Ea:242:GLN:NE2	2.34	0.60
7:AI:335:ILE:HD12	9:h:71:VAL:HG23	1.82	0.60
6:Ag:327:ASP:N	6:Ag:327:ASP:OD1	2.33	0.60
6:Az:59:GLN:CD	5:U:219:MET:HE1	2.26	0.60
6:L:238:GLY:O	6:L:241:GLN:NE2	2.34	0.60
14:A9:118:THR:HG22	14:A9:168:LYS:HG3	1.82	0.60
17:Ch:97:PRO:HD3	17:Ch:173:GLU:HG3	1.82	0.60
14:Cj:118:THR:HG22	14:Cj:168:LYS:HG3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DA:293:VAL:HG23	19:Dy:207:ARG:CD	2.32	0.60
17:BG:97:PRO:HD3	17:BG:173:GLU:HG3	1.82	0.60
14:Bm:118:THR:HG22	14:Bm:168:LYS:HG3	1.82	0.60
19:Dq:207:ARG:CD	18:Ds:293:VAL:HG23	2.32	0.60
7:En:168:ALA:O	7:En:172:GLU:HG2	2.01	0.60
5:AU:191:ASN:ND2	5:R:43:ASP:OD1	2.35	0.60
6:As:42:TYR:CZ	6:Ax:362:LYS:HD2	2.36	0.60
5:T:35:LYS:NZ	5:T:221:GLU:OE2	2.34	0.60
5:U:123:ASN:HD21	5:U:127:THR:HB	1.66	0.60
9:h:135:MET:HE2	11:t:75:ASN:HD22	1.66	0.60
14:A4:118:THR:HG22	14:A4:168:LYS:HG3	1.83	0.60
13:A8:362:ASN:O	18:Dc:91:MET:HE1	2.01	0.60
17:CS:97:PRO:HD3	17:CS:173:GLU:HG3	1.82	0.60
18:DQ:279:ASP:OD1	18:DQ:282:ARG:NH2	2.35	0.60
18:Do:279:ASP:OD1	18:Do:282:ARG:NH2	2.35	0.60
7:Es:204:PHE:HE1	7:Es:206:THR:HG22	1.66	0.60
6:A1:427:ASN:HD21	5:P:235:ILE:HG21	1.65	0.60
7:AD:341:ASN:HD22	7:EK:366:SER:HB2	1.65	0.60
5:AX:226:ASN:HB3	5:AX:229:GLU:HB2	1.84	0.60
6:Ac:416:PHE:HZ	6:L:433:ILE:HD11	1.67	0.60
6:Ae:402:MET:HB2	6:H:430:GLN:HE21	1.66	0.60
6:Az:53:THR:O	6:Az:54:PRO:C	2.42	0.60
10:n:76:ARG:NH1	10:n:79:ASP:OD1	2.34	0.60
14:B8:133:MET:CG	14:CC:157:ASN:ND2	2.65	0.60
14:A9:133:MET:CG	14:BD:157:ASN:ND2	2.65	0.60
14:CP:133:MET:CG	14:CU:157:ASN:ND2	2.65	0.60
14:CZ:133:MET:CG	14:Ce:157:ASN:ND2	2.65	0.60
14:Cy:157:ASN:OD1	14:C9:259:LEU:CG	2.48	0.60
18:DU:279:ASP:OD1	18:DU:282:ARG:NH2	2.35	0.60
18:Dc:216:ASP:OD1	18:Dc:216:ASP:N	2.34	0.60
1:0:22:LEU:HB3	1:0:48:PRO:HD3	1.84	0.60
6:Aj:39:ALA:HB1	6:Ao:365:GLY:HA2	1.83	0.60
6:Al:39:ALA:HB1	6:Aq:365:GLY:HA2	1.83	0.60
6:I:109:PHE:HE1	6:I:119:THR:HG22	1.66	0.60
9:i:22:ASN:HD22	10:n:54:ARG:HE	1.49	0.60
9:l:35:SER:OG	10:q:40:GLN:NE2	2.35	0.60
14:BN:133:MET:CG	14:BS:157:ASN:ND2	2.65	0.60
18:Dk:279:ASP:OD1	18:Dk:282:ARG:NH2	2.35	0.60
19:Dm:207:ARG:CD	18:Do:293:VAL:HG23	2.32	0.60
2:1:189:ILE:HD12	7:Eh:193:VAL:N	2.12	0.60
5:AV:101:GLY:O	5:AV:116:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AZ:123:ASN:HD21	5:AZ:127:THR:HB	1.66	0.60
5:AZ:176:ILE:HG13	5:AZ:212:LEU:HD22	1.83	0.60
6:G:427:ASN:OD1	6:M:414:ARG:NH1	2.35	0.60
6:N:82:ARG:HH11	6:N:396:GLU:HG2	1.67	0.60
8:e:15:THR:HG23	8:e:45:PHE:HZ	1.67	0.60
9:l:37:SER:HB3	10:q:44:MET:HA	1.84	0.60
10:q:65:ASN:O	10:q:208:ASN:ND2	2.34	0.60
14:Cy:118:THR:HG22	14:Cy:168:LYS:HG3	1.83	0.60
18:DA:216:ASP:N	18:DA:216:ASP:OD1	2.34	0.60
18:DA:279:ASP:OD1	18:DA:282:ARG:NH2	2.35	0.60
17:BB:97:PRO:HD3	17:BB:173:GLU:HG3	1.82	0.60
14:BS:133:MET:CG	14:BX:157:ASN:ND2	2.65	0.60
14:Bw:118:THR:HG22	14:Bw:168:LYS:HG3	1.82	0.60
18:DE:216:ASP:OD1	18:DE:216:ASP:N	2.34	0.60
18:DM:141:ASP:HB3	18:DM:144:SER:HB3	1.84	0.60
18:DM:279:ASP:OD1	18:DM:282:ARG:NH2	2.35	0.60
18:Dj:245:ARG:HB2	18:Dj:260:VAL:HG11	1.84	0.60
7:Ei:206:THR:HA	7:Ei:242:GLN:HG2	1.84	0.60
7:Ep:184:LEU:HD21	7:Ep:229:VAL:HG21	1.84	0.60
2:3:91:ALA:HA	22:v:202:PGT:H452	1.83	0.60
3:7:64:LEU:HD12	7:EY:148:PHE:CD2	2.37	0.60
6:A1:372:GLN:HG2	5:V:168:ASN:OD1	2.02	0.60
5:AS:86:ALA:HB2	5:W:45:PHE:HE1	1.67	0.60
5:Aa:99:GLY:O	5:Aa:116:ARG:NH2	2.34	0.60
6:Ac:427:ASN:OD1	6:Ai:414:ARG:NH1	2.34	0.60
6:Aj:105:ARG:NH1	6:Aj:396:GLU:OE2	2.31	0.60
6:E:109:PHE:HE1	6:E:119:THR:HG22	1.66	0.60
6:O:238:GLY:O	6:O:241:GLN:NE2	2.35	0.60
9:k:22:ASN:HD22	10:p:54:ARG:HE	1.48	0.60
11:t:87:ILE:HD11	22:t:202:PGT:C18	2.28	0.60
14:A9:259:LEU:CG	14:C9:157:ASN:OD1	2.48	0.60
14:CK:133:MET:CG	14:CP:157:ASN:ND2	2.65	0.60
13:C3:233:HIS:NE2	13:C8:353:GLU:OE2	2.33	0.60
14:C9:118:THR:HG22	14:C9:168:LYS:HG3	1.82	0.60
14:B2:118:THR:HG22	14:B2:168:LYS:HG3	1.82	0.60
14:B2:157:ASN:ND2	14:Bw:133:MET:CG	2.65	0.60
14:BI:157:ASN:OD1	14:BS:259:LEU:CG	2.49	0.60
19:DC:207:ARG:CD	18:DE:293:VAL:HG23	2.32	0.60
18:DE:279:ASP:OD1	18:DE:282:ARG:NH2	2.35	0.60
18:DP:138:SER:OG	18:DP:148:ARG:NH1	2.31	0.60
18:DQ:141:ASP:HB3	18:DQ:144:SER:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Df:138:SER:OG	18:Df:148:ARG:NH1	2.31	0.60
18:Do:216:ASP:OD1	18:Do:216:ASP:N	2.34	0.60
7:EX:163:ARG:HA	7:EX:166:GLN:HE21	1.64	0.60
7:En:176:GLN:OE1	7:En:176:GLN:N	2.33	0.60
6:A1:365:GLY:HA2	6:Av:39:ALA:HB1	1.84	0.59
5:AU:94:ASP:HB2	5:AU:220:LEU:HD21	1.83	0.59
5:AY:216:ARG:HH21	6:As:59:GLN:HE21	1.49	0.59
6:Ac:101:ASN:OD1	6:Ac:377:LYS:NZ	2.34	0.59
6:Al:84:SER:OG	6:Al:391:ASN:ND2	2.35	0.59
6:Az:46:LEU:CD1	5:Z:150:ILE:HG13	2.31	0.59
9:j:133:LEU:HD23	11:u:71:MET:HE3	1.83	0.59
2:y:112:ILE:HG23	2:y:283:LEU:HD23	1.84	0.59
2:y:206:PRO:HD2	7:Ep:194:ARG:HH12	1.66	0.59
14:Co:133:MET:CG	14:Ct:157:ASN:ND2	2.65	0.59
14:Br:118:THR:HG22	14:Br:168:LYS:HG3	1.83	0.59
18:DY:279:ASP:OD1	18:DY:282:ARG:NH2	2.35	0.59
19:Di:207:ARG:CD	18:Dk:293:VAL:HG23	2.32	0.59
7:EX:146:MET:HB2	7:EX:150:VAL:CG2	2.32	0.59
4:8:243:MET:HE1	7:Ej:151:SER:HB2	1.82	0.59
6:Ah:381:GLU:OE1	6:Ah:384:LYS:NZ	2.29	0.59
5:W:24:ASN:ND2	5:W:34:TYR:OH	2.35	0.59
5:W:185:LEU:HB3	5:W:193:TYR:HB3	1.84	0.59
14:CC:133:MET:CG	14:CK:157:ASN:ND2	2.65	0.59
14:A4:133:MET:CG	14:A9:157:ASN:ND2	2.65	0.59
14:Cj:133:MET:CG	14:Co:157:ASN:ND2	2.65	0.59
17:Cm:97:PRO:HD3	17:Cm:173:GLU:HG3	1.82	0.59
17:Cr:97:PRO:HD3	17:Cr:173:GLU:HG3	1.82	0.59
14:BD:133:MET:CG	14:BI:157:ASN:ND2	2.65	0.59
18:DI:141:ASP:HB3	18:DI:144:SER:HB3	1.84	0.59
18:DX:245:ARG:HB2	18:DX:260:VAL:HG11	1.85	0.59
18:Db:245:ARG:HB2	18:Db:260:VAL:HG11	1.85	0.59
18:Df:245:ARG:HB2	18:Df:260:VAL:HG11	1.85	0.59
18:Dn:245:ARG:HB2	18:Dn:260:VAL:HG11	1.84	0.59
7:Ed:241:ASP:OD2	7:Ed:245:ARG:NH1	2.34	0.59
6:A2:13:GLN:HE22	5:Q:226:ASN:HD21	1.50	0.59
6:A2:431:GLN:HE21	5:Q:239:ARG:CZ	2.15	0.59
6:A3:383:ASN:CG	5:Q:163:ARG:HH22	2.09	0.59
5:AS:2:HIS:HD2	5:AS:4:ALA:H	1.48	0.59
5:AZ:43:ASP:OD1	5:T:191:ASN:ND2	2.35	0.59
6:Ao:196:ASP:OD1	6:Ao:200:GLN:N	2.34	0.59
6:Ay:372:GLN:HE21	5:T:168:ASN:CG	2.09	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:50:ASN:HB2	5:P:66:LEU:H	1.67	0.59
14:Ce:133:MET:CG	14:Cj:157:ASN:ND2	2.65	0.59
14:Cy:133:MET:CG	14:C4:157:ASN:ND2	2.65	0.59
14:Bh:133:MET:CG	14:Bm:157:ASN:ND2	2.65	0.59
18:DL:138:SER:OG	18:DL:148:ARG:NH1	2.31	0.59
18:Dc:279:ASP:OD1	18:Dc:282:ARG:NH2	2.35	0.59
18:Dg:216:ASP:N	18:Dg:216:ASP:OD1	2.34	0.59
18:Dj:138:SER:OG	18:Dj:148:ARG:NH1	2.31	0.59
7:EZ:201:ALA:O	7:Ea:227:SER:OG	2.20	0.59
7:En:230:PRO:HD3	7:Eo:185:ALA:HB1	1.83	0.59
7:Es:163:ARG:HA	7:Es:166:GLN:HE21	1.66	0.59
5:AX:1:MET:HE2	5:AX:5:LEU:HD22	1.84	0.59
5:Aa:1:MET:HG2	5:V:236:GLU:HG3	1.84	0.59
6:Af:129:GLN:HB2	6:Af:143:GLN:HE21	1.67	0.59
6:Af:366:THR:HG23	6:O:40:ASP:H	1.67	0.59
6:Ai:84:SER:OG	6:Ai:391:ASN:ND2	2.36	0.59
6:Ar:39:ALA:HB1	6:Aw:365:GLY:HA2	1.82	0.59
6:Ar:129:GLN:HB2	6:Ar:143:GLN:HE21	1.67	0.59
6:At:84:SER:OG	6:At:391:ASN:ND2	2.35	0.59
14:B8:118:THR:HG22	14:B8:168:LYS:HG3	1.83	0.59
18:DT:245:ARG:HB2	18:DT:260:VAL:HG11	1.84	0.59
18:DU:141:ASP:HB3	18:DU:144:SER:HB3	1.84	0.59
19:Da:207:ARG:CD	18:Dc:293:VAL:HG23	2.32	0.59
18:Ds:279:ASP:OD1	18:Ds:282:ARG:NH2	2.35	0.59
7:Ef:156:GLN:HE22	7:Eg:153:ARG:HG3	1.67	0.59
7:AF:350:PRO:HA	7:AF:353:VAL:HG22	1.83	0.59
6:Al:327:ASP:OD1	6:Al:327:ASP:N	2.33	0.59
6:Az:59:GLN:NE2	5:U:216:ARG:HH21	2.01	0.59
8:f:86:PRO:O	10:p:54:ARG:NH1	2.36	0.59
14:Ce:118:THR:HG22	14:Ce:168:LYS:HG3	1.82	0.59
14:C4:118:THR:HG22	14:C4:168:LYS:HG3	1.82	0.59
14:C4:133:MET:CG	14:C9:157:ASN:ND2	2.65	0.59
14:Br:133:MET:CG	14:Bw:157:ASN:ND2	2.65	0.59
19:DG:207:ARG:CD	18:DI:293:VAL:HG23	2.32	0.59
19:De:207:ARG:CD	18:Dg:293:VAL:HG23	2.32	0.59
18:Dk:141:ASP:HB3	18:Dk:144:SER:HB3	1.84	0.59
7:Ef:220:SER:HA	7:Eg:246:LEU:HD12	1.85	0.59
2:2:95:MET:HB3	22:2:301:PGT:H252	1.84	0.59
7:AC:342:GLN:HE22	7:ER:327:ASN:HD22	1.41	0.59
5:AR:36:LYS:HB3	5:AR:225:VAL:HG12	1.84	0.59
6:Ac:327:ASP:OD1	6:Ac:327:ASP:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Af:82:ARG:HH11	6:Af:396:GLU:HG2	1.68	0.59
6:Ar:109:PHE:HE1	6:Ar:119:THR:HG22	1.67	0.59
10:m:86:GLY:O	10:m:101:ARG:NH1	2.35	0.59
10:p:11:GLY:O	10:p:15:ASN:ND2	2.30	0.59
14:CC:118:THR:HG22	14:CC:168:LYS:HG3	1.82	0.59
14:Bm:133:MET:CG	14:Br:157:ASN:ND2	2.65	0.59
19:DW:207:ARG:CD	18:DY:293:VAL:HG23	2.32	0.59
18:Dg:141:ASP:HB3	18:Dg:144:SER:HB3	1.84	0.59
18:Dg:279:ASP:OD1	18:Dg:282:ARG:NH2	2.35	0.59
18:Dk:216:ASP:OD1	18:Dk:216:ASP:N	2.34	0.59
7:Ed:164:GLU:HG2	7:Ed:184:LEU:HD13	1.84	0.59
6:A3:428:GLN:HE21	5:Q:238:GLN:HE22	1.49	0.59
5:AS:24:ASN:ND2	5:AS:34:TYR:OH	2.36	0.59
6:Ah:109:PHE:HE1	6:Ah:119:THR:HG22	1.67	0.59
6:E:422:SER:HA	6:J:409:LEU:HD21	1.85	0.59
8:d:108:ILE:HD11	9:h:126:LYS:HG3	1.85	0.59
10:q:102:ASN:HD21	10:q:116:ALA:HB3	1.66	0.59
18:DP:245:ARG:HB2	18:DP:260:VAL:HG11	1.84	0.59
19:DS:207:ARG:CD	18:DU:293:VAL:HG23	2.32	0.59
18:Dr:245:ARG:HB2	18:Dr:260:VAL:HG11	1.85	0.59
18:Dw:279:ASP:OD1	18:Dw:282:ARG:NH2	2.35	0.59
6:A2:66:GLN:OE1	5:P:91:ASN:OD1	2.20	0.59
6:Ag:414:ARG:NH1	6:O:427:ASN:OD1	2.35	0.59
6:Ao:101:ASN:OD1	6:Ao:377:LYS:NZ	2.35	0.59
6:Ao:171:ASP:OD1	6:Ao:171:ASP:N	2.36	0.59
10:o:91:LEU:HD23	10:o:122:LEU:HD21	1.85	0.59
14:B8:157:ASN:ND2	14:B2:133:MET:CG	2.65	0.59
14:CU:133:MET:CG	14:CZ:157:ASN:ND2	2.65	0.59
14:BI:133:MET:CG	14:BN:157:ASN:ND2	2.65	0.59
14:Bc:133:MET:CG	14:Bh:157:ASN:ND2	2.65	0.59
19:DK:207:ARG:CD	18:DM:293:VAL:HG23	2.32	0.59
7:Ek:177:VAL:HA	7:Ek:207:LEU:HA	1.85	0.59
3:5:86:GLN:HE21	7:EY:153:ARG:CZ	2.16	0.59
3:6:71:GLN:NE2	7:Ef:151:SER:CB	2.65	0.59
5:AR:176:ILE:HG13	5:AR:212:LEU:HD22	1.83	0.59
6:Aj:69:GLU:OE1	6:Aj:82:ARG:NH2	2.36	0.59
9:l:113:ARG:NH2	9:l:116:GLN:OE1	2.36	0.59
13:BR:368:GLN:NE2	18:Dk:94:PRO:O	2.35	0.59
14:BX:133:MET:CG	14:Bc:157:ASN:ND2	2.65	0.59
18:Dc:141:ASP:HB3	18:Dc:144:SER:HB3	1.84	0.59
6:Ad:427:ASN:OD1	6:Aj:414:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Au:39:ALA:HB1	6:Az:365:GLY:HA2	1.85	0.59
2:y:197:THR:HG21	7:Ea:194:ARG:CG	2.22	0.59
14:Ct:133:MET:CG	14:Cy:157:ASN:ND2	2.65	0.59
18:DE:141:ASP:HB3	18:DE:144:SER:HB3	1.84	0.59
18:DI:279:ASP:OD1	18:DI:282:ARG:NH2	2.35	0.59
19:DO:207:ARG:CD	18:DQ:293:VAL:HG23	2.32	0.59
20:D7:8:GLY:O	20:D7:9:ARG:C	2.45	0.59
2:1:92:LEU:HD13	22:t:202:PGT:C19	2.32	0.58
6:Aq:327:ASP:OD1	6:Aq:327:ASP:N	2.35	0.58
6:Av:100:GLN:HE21	6:Av:100:GLN:HA	1.68	0.58
9:j:22:ASN:HD22	10:m:54:ARG:HE	1.51	0.58
18:DL:245:ARG:HB2	18:DL:260:VAL:HG11	1.84	0.58
18:DY:141:ASP:HB3	18:DY:144:SER:HB3	1.84	0.58
18:Do:141:ASP:HB3	18:Do:144:SER:HB3	1.84	0.58
3:4:31:ILE:HG13	3:4:57:VAL:HG21	1.85	0.58
7:AH:341:ASN:ND2	10:m:50:GLY:O	2.36	0.58
5:AP:86:ALA:HB2	5:a:45:PHE:HE1	1.68	0.58
5:AP:127:THR:HG22	5:AP:142:VAL:HG22	1.84	0.58
5:Aa:16:GLN:HG3	5:Aa:241:TYR:HE2	1.68	0.58
6:H:109:PHE:CE1	6:H:119:THR:HG22	2.38	0.58
18:Dw:141:ASP:HB3	18:Dw:144:SER:HB3	1.84	0.58
7:Ek:150:VAL:HG12	7:Ek:154:LEU:HD23	1.86	0.58
5:AZ:228:THR:HG23	6:At:433:ILE:HD11	1.84	0.58
6:Ar:82:ARG:HH11	6:Ar:396:GLU:HG2	1.68	0.58
8:f:35:THR:O	8:f:92:ASN:ND2	2.37	0.58
14:A4:157:ASN:ND2	14:C9:133:MET:CG	2.65	0.58
7:Et:218:VAL:HG21	7:Et:247:LEU:HB3	1.84	0.58
5:AV:86:ALA:HB2	5:T:45:PHE:HE1	1.68	0.58
6:Aw:50:ALA:O	6:Aw:52:THR:N	2.35	0.58
9:j:61:ASP:N	9:j:61:ASP:OD1	2.35	0.58
13:CT:368:GLN:NE2	18:DI:94:PRO:O	2.35	0.58
18:DA:141:ASP:HB3	18:DA:144:SER:HB3	1.84	0.58
18:DH:245:ARG:HB2	18:DH:260:VAL:HG11	1.85	0.58
18:Dv:245:ARG:HB2	18:Dv:260:VAL:HG11	1.85	0.58
7:Eg:239:VAL:N	7:Eg:248:SER:OG	2.34	0.58
7:Ek:164:GLU:HG2	7:Ek:184:LEU:HD13	1.84	0.58
5:AX:91:ASN:HD22	5:AX:93:LEU:H	1.52	0.58
6:Af:343:ASN:HD22	6:I:372:GLN:HB2	1.68	0.58
6:Ag:84:SER:OG	6:Ag:391:ASN:ND2	2.37	0.58
6:Ak:101:ASN:OD1	6:Ak:377:LYS:NZ	2.36	0.58
6:O:327:ASP:OD1	6:O:327:ASP:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s:90:LYS:HE3	11:w:74:ARG:HH21	1.68	0.58
18:CG:245:ARG:HB2	18:CG:260:VAL:HG11	1.85	0.58
13:Cd:368:GLN:NE2	18:DM:94:PRO:O	2.35	0.58
18:DD:245:ARG:HB2	18:DD:260:VAL:HG11	1.85	0.58
7:Ea:184:LEU:HD21	7:Ea:229:VAL:HG21	1.85	0.58
7:Er:238:THR:HG21	7:Es:224:MET:HA	1.84	0.58
7:Es:164:GLU:HG2	7:Es:184:LEU:HD13	1.85	0.58
3:7:68:TRP:HB2	7:EX:148:PHE:HB3	1.84	0.58
6:Af:414:ARG:NH1	6:N:427:ASN:OD1	2.36	0.58
6:Ah:427:ASN:OD1	6:An:414:ARG:NH1	2.37	0.58
6:Aq:49:ASN:HD22	5:P:218:SER:HB3	1.68	0.58
6:Aq:109:PHE:HE1	6:Aq:119:THR:HG22	1.68	0.58
6:Aq:171:ASP:OD1	6:Aq:171:ASP:N	2.36	0.58
6:M:33:GLU:HB3	6:M:400:ILE:HG22	1.84	0.58
8:f:41:ARG:HG2	8:f:78:LYS:HE2	1.85	0.58
13:B7:368:GLN:NE2	18:DE:94:PRO:O	2.35	0.58
19:DJ:198:GLN:NE2	19:DJ:198:GLN:O	2.37	0.58
21:EF:3:GLY:CA	7:ES:381:ILE:CG2	2.78	0.58
7:Ep:201:ALA:O	7:Eq:227:SER:OG	2.19	0.58
6:A1:59:GLN:OE1	5:V:219:MET:HE1	2.03	0.58
5:AR:86:ALA:HB2	5:X:45:PHE:HE1	1.68	0.58
6:Af:239:ASP:OD1	6:Af:239:ASP:N	2.31	0.58
6:At:327:ASP:OD1	6:At:327:ASP:N	2.36	0.58
6:Av:59:GLN:NE2	5:P:216:ARG:NH2	2.52	0.58
6:E:84:SER:OG	6:E:391:ASN:ND2	2.37	0.58
6:N:327:ASP:N	6:N:327:ASP:OD1	2.36	0.58
19:Dl:198:GLN:NE2	19:Dl:198:GLN:O	2.37	0.58
18:Ds:141:ASP:HB3	18:Ds:144:SER:HB3	1.84	0.58
7:Eh:151:SER:O	7:Eh:153:ARG:N	2.36	0.58
5:AX:115:THR:HB	5:AX:192:LEU:HD23	1.86	0.58
6:Ad:168:ALA:HA	6:Ad:303:GLN:HE21	1.69	0.58
6:Af:171:ASP:OD1	6:Af:187:ASN:ND2	2.36	0.58
6:Ak:84:SER:OG	6:Ak:391:ASN:ND2	2.36	0.58
6:Ay:3:TYR:CE1	5:T:87:GLN:OE1	2.57	0.58
5:C:28:ASN:HD22	5:C:31:THR:HG21	1.68	0.58
6:I:39:ALA:HB1	6:N:365:GLY:HA2	1.84	0.58
6:J:196:ASP:OD1	6:J:200:GLN:N	2.36	0.58
13:BH:368:GLN:NE2	18:Dg:94:PRO:O	2.35	0.58
19:DZ:198:GLN:O	19:DZ:198:GLN:NE2	2.37	0.58
7:EZ:176:GLN:OE1	7:EZ:176:GLN:N	2.30	0.58
7:Eq:176:GLN:OE1	7:Eq:176:GLN:N	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A2:372:GLN:NE2	5:W:168:ASN:HB2	2.18	0.58
6:A2:428:GLN:NE2	5:P:238:GLN:HE22	2.01	0.58
5:AZ:119:GLN:NE2	6:Az:35:ARG:CZ	2.66	0.58
6:Ae:414:ARG:NH1	6:M:427:ASN:OD1	2.37	0.58
6:Ap:39:ALA:HB1	6:Au:365:GLY:HA2	1.86	0.58
5:C:109:ASP:OD1	5:C:109:ASP:N	2.36	0.58
5:P:18:ASN:HD22	5:P:39:ALA:HB3	1.68	0.58
5:Q:176:ILE:HD11	5:Q:212:LEU:HB3	1.86	0.58
10:o:22:ARG:HE	10:o:39:ALA:HB3	1.69	0.58
13:Cd:54:VAL:HG13	13:Cd:59:ALA:HB3	1.86	0.58
13:Cn:368:GLN:NE2	18:DQ:94:PRO:O	2.35	0.58
7:Eb:220:SER:HB3	7:Ec:246:LEU:HB2	1.85	0.58
7:Et:207:LEU:N	7:Et:242:GLN:OE1	2.36	0.58
6:A3:369:ASP:OD1	6:A3:370:SER:N	2.37	0.58
7:AG:335:ILE:HB	7:AG:338:ALA:HB2	1.86	0.58
5:AY:239:ARG:NH1	6:Ax:431:GLN:HE21	2.01	0.58
6:Ag:39:ALA:HB1	6:Al:365:GLY:HA2	1.85	0.58
6:Az:42:TYR:CE2	6:Az:55:GLY:HA2	2.39	0.58
5:T:91:ASN:HD22	5:T:93:LEU:H	1.51	0.58
2:z:183:MET:HE1	2:z:215:ILE:HG12	1.86	0.58
13:Ci:54:VAL:HG13	13:Ci:59:ALA:HB3	1.86	0.58
19:DV:198:GLN:NE2	19:DV:198:GLN:O	2.37	0.58
19:Dd:198:GLN:NE2	19:Dd:198:GLN:O	2.37	0.58
19:Dx:198:GLN:NE2	19:Dx:198:GLN:O	2.37	0.58
21:EB:3:GLY:HA3	7:EG:381:ILE:HD12	1.86	0.58
7:Eo:200:SER:HB2	7:Eo:236:ARG:HH21	1.68	0.58
3:4:54:ARG:NH1	3:5:46:GLU:OE2	2.37	0.57
3:7:71:GLN:CG	7:EX:152:GLN:OE1	2.51	0.57
5:A:94:ASP:HB2	5:A:220:LEU:HD21	1.84	0.57
6:A1:59:GLN:CD	5:V:219:MET:CE	2.77	0.57
5:AP:161:ARG:HG2	5:W:51:GLN:NE2	2.20	0.57
5:AU:86:ALA:HB2	5:U:45:PHE:HE1	1.69	0.57
6:Ap:6:LEU:HD13	6:Av:407:VAL:HG11	1.86	0.57
6:At:433:ILE:HD11	6:Ay:416:PHE:HZ	1.69	0.57
6:Ax:45:SER:HB3	6:Ax:48:THR:HG23	1.84	0.57
6:Ay:3:TYR:CE1	5:T:87:GLN:HG2	2.39	0.57
23:t:201:XKP:C1	22:t:202:PGT:H191	2.35	0.57
2:y:206:PRO:HD3	7:Ep:192:PHE:HD2	1.69	0.57
15:CV:136:GLU:OE1	13:CY:82:ASN:ND2	2.37	0.57
13:B1:82:ASN:ND2	15:Bx:136:GLU:OE1	2.37	0.57
15:B3:136:GLU:OE1	13:B6:82:ASN:ND2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DR:198:GLN:O	19:DR:198:GLN:NE2	2.37	0.57
18:DY:138:SER:OG	18:DY:148:ARG:NH1	2.35	0.57
7:EX:246:LEU:H	7:EY:216:GLN:HE21	1.50	0.57
5:AR:101:GLY:O	5:AR:116:ARG:NH1	2.37	0.57
5:Aa:104:GLN:NE2	5:Aa:175:THR:OG1	2.38	0.57
6:Ar:46:LEU:HD11	5:Q:150:ILE:HD11	1.86	0.57
6:Ay:371:THR:HG22	5:T:161:ARG:NH2	2.19	0.57
5:P:29:ALA:HA	5:P:225:VAL:HG21	1.86	0.57
8:e:86:PRO:O	10:m:54:ARG:NH1	2.35	0.57
13:Cn:54:VAL:HG13	13:Cn:59:ALA:HB3	1.87	0.57
18:DA:94:PRO:O	13:B6:368:GLN:NE2	2.35	0.57
7:D5:381:ILE:HD12	21:EB:10:ALA:CB	2.35	0.57
7:Eg:176:GLN:OE1	7:Eg:176:GLN:N	2.35	0.57
7:Ek:227:SER:OG	7:El:201:ALA:O	2.22	0.57
5:A:86:ALA:HB2	5:Y:45:PHE:HE1	1.69	0.57
6:A1:48:THR:CG2	5:V:83:HIS:H	2.16	0.57
6:O:82:ARG:HH11	6:O:396:GLU:HG2	1.69	0.57
13:CJ:82:ASN:ND2	15:C0:136:GLU:OE1	2.37	0.57
13:CY:54:VAL:HG13	13:CY:59:ALA:HB3	1.87	0.57
15:Ca:136:GLU:OE1	13:Cd:82:ASN:ND2	2.37	0.57
15:BY:136:GLU:OE1	13:Bb:82:ASN:ND2	2.38	0.57
13:Bq:54:VAL:HG13	13:Bq:59:ALA:HB3	1.86	0.57
15:Bs:136:GLU:OE1	13:Bv:82:ASN:ND2	2.37	0.57
19:Dh:198:GLN:O	19:Dh:198:GLN:NE2	2.37	0.57
19:Du:165:GLU:OE2	19:Du:207:ARG:NH2	2.38	0.57
3:5:86:GLN:NE2	7:EY:153:ARG:CZ	2.67	0.57
4:8:70:ARG:HA	4:8:73:MET:HE2	1.85	0.57
6:A1:434:LEU:HD11	5:P:243:MET:CE	2.34	0.57
6:A2:416:PHE:HZ	6:Aw:433:ILE:HD11	1.69	0.57
5:AU:176:ILE:HD11	5:AU:212:LEU:HB3	1.87	0.57
5:AZ:36:LYS:HB3	5:AZ:225:VAL:HG12	1.86	0.57
6:Ad:101:ASN:OD1	6:Ad:377:LYS:NZ	2.37	0.57
6:Ah:84:SER:OG	6:Ah:391:ASN:ND2	2.37	0.57
6:Ao:111:LEU:HD11	6:Ao:147:ILE:HD12	1.86	0.57
5:T:99:GLY:O	5:T:116:ARG:NH2	2.38	0.57
15:B9:136:GLU:OE1	13:CB:82:ASN:ND2	2.37	0.57
13:Cs:54:VAL:HG13	13:Cs:59:ALA:HB3	1.86	0.57
13:Bg:54:VAL:HG13	13:Bg:59:ALA:HB3	1.86	0.57
13:Bl:54:VAL:HG13	13:Bl:59:ALA:HB3	1.87	0.57
19:DB:198:GLN:NE2	19:DB:198:GLN:O	2.37	0.57
19:DW:165:GLU:OE2	19:DW:207:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Di:165:GLU:OE2	19:Di:207:ARG:NH2	2.38	0.57
7:Eg:227:SER:OG	7:Eh:200:SER:OG	2.15	0.57
6:A3:427:ASN:HD22	5:S:235:ILE:HG21	1.67	0.57
6:Ap:415:ASN:O	6:Ap:419:ASN:ND2	2.36	0.57
6:Aq:101:ASN:OD1	6:Aq:377:LYS:NZ	2.37	0.57
5:Q:185:LEU:HB3	5:Q:193:TYR:HB3	1.87	0.57
2:y:248:LEU:HD11	2:y:261:VAL:HG11	1.86	0.57
15:CQ:136:GLU:OE1	13:CT:82:ASN:ND2	2.38	0.57
15:BT:136:GLU:OE1	13:BW:82:ASN:ND2	2.37	0.57
13:Bv:54:VAL:HG13	13:Bv:59:ALA:HB3	1.86	0.57
19:DK:165:GLU:OE2	19:DK:207:ARG:NH2	2.38	0.57
18:DP:247:TYR:O	18:DP:250:SER:OG	2.20	0.57
19:Di:207:ARG:HD3	18:Dk:293:VAL:HG23	1.86	0.57
18:Dk:138:SER:OG	18:Dk:148:ARG:NH1	2.35	0.57
19:Dp:198:GLN:O	19:Dp:198:GLN:NE2	2.37	0.57
18:Dr:141:ASP:HB3	18:Dr:144:SER:HB3	1.87	0.57
18:Dv:141:ASP:HB3	18:Dv:144:SER:HB3	1.87	0.57
7:EY:146:MET:N	7:EY:146:MET:SD	2.78	0.57
6:A3:45:SER:OG	5:X:83:HIS:CD2	2.57	0.57
7:AJ:341:ASN:ND2	10:n:48:GLY:O	2.38	0.57
6:Az:82:ARG:HH11	6:Az:396:GLU:HG2	1.69	0.57
17:CI:253:ILE:HG13	17:C7:353:ALA:HB2	1.86	0.57
13:CT:54:VAL:HG13	13:CT:59:ALA:HB3	1.87	0.57
13:CY:321:TRP:HE1	13:CY:374:ASN:ND2	2.03	0.57
18:DA:63:ARG:NH2	18:DA:71:ASP:OD2	2.38	0.57
13:Bb:54:VAL:HG13	13:Bb:59:ALA:HB3	1.86	0.57
15:Bd:136:GLU:OE1	13:Bg:82:ASN:ND2	2.38	0.57
19:DC:165:GLU:OE2	19:DC:207:ARG:NH2	2.38	0.57
19:DF:198:GLN:O	19:DF:198:GLN:NE2	2.37	0.57
18:DM:63:ARG:NH2	18:DM:71:ASP:OD2	2.38	0.57
18:DX:220:VAL:HB	18:DX:260:VAL:HG12	1.87	0.57
18:DY:63:ARG:NH2	18:DY:71:ASP:OD2	2.38	0.57
19:Dm:207:ARG:HD3	18:Do:293:VAL:HG23	1.86	0.57
19:Dt:198:GLN:NE2	19:Dt:198:GLN:O	2.37	0.57
7:El:163:ARG:HH22	7:Em:183:LEU:HB3	1.69	0.57
3:7:65:PHE:HE1	7:EX:148:PHE:CD2	2.23	0.57
6:A3:45:SER:OG	5:X:83:HIS:CG	2.58	0.57
5:AW:115:THR:HB	5:AW:192:LEU:HD23	1.86	0.57
6:Ae:427:ASN:OD1	6:Ak:414:ARG:NH1	2.38	0.57
6:Ak:231:LYS:HB3	6:Ak:281:THR:HB	1.87	0.57
6:At:52:THR:O	6:At:52:THR:HG22	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:196:ASP:OD1	6:N:200:GLN:N	2.33	0.57
5:T:178:ASP:HB2	5:T:212:LEU:HD21	1.86	0.57
9:i:17:GLU:OE1	9:i:20:ARG:NH2	2.34	0.57
10:n:104:ASN:HB3	10:n:116:ALA:HB2	1.87	0.57
10:q:22:ARG:HE	10:q:39:ALA:HB3	1.68	0.57
13:B7:82:ASN:ND2	15:CD:136:GLU:OE1	2.38	0.57
17:CF:353:ALA:HB2	17:CN:253:ILE:HG13	1.86	0.57
13:Cx:321:TRP:HE1	13:Cx:374:ASN:ND2	2.03	0.57
13:Cx:368:GLN:NE2	18:DU:94:PRO:O	2.35	0.57
15:C5:136:GLU:OE1	13:C8:82:ASN:ND2	2.38	0.57
13:B6:321:TRP:HE1	13:B6:374:ASN:ND2	2.03	0.57
17:BL:353:ALA:HB2	17:BQ:253:ILE:HG13	1.86	0.57
19:DN:198:GLN:NE2	19:DN:198:GLN:O	2.37	0.57
18:Dc:218:VAL:HG21	18:Dc:253:LEU:HD13	1.87	0.57
19:De:207:ARG:HD3	18:Dg:293:VAL:HG23	1.86	0.57
18:Dg:218:VAL:HG21	18:Dg:253:LEU:HD13	1.87	0.57
1:9:166:VAL:HG13	1:9:186:LYS:HB3	1.86	0.57
6:Af:109:PHE:HE1	6:Af:119:THR:HG22	1.70	0.57
6:Aq:427:ASN:OD1	6:Aw:414:ARG:NH1	2.38	0.57
6:Au:40:ASP:H	6:Az:366:THR:HG23	1.69	0.57
6:Az:372:GLN:HE21	5:U:168:ASN:HB2	1.60	0.57
6:I:117:MET:HE3	6:I:125:LEU:HD23	1.86	0.57
8:b:86:PRO:O	10:q:54:ARG:NH1	2.38	0.57
17:CA:253:ILE:HG13	17:B5:353:ALA:HB2	1.86	0.57
15:A5:136:GLU:OE1	13:A8:82:ASN:ND2	2.37	0.57
15:CL:136:GLU:OE1	13:CO:82:ASN:ND2	2.37	0.57
13:CO:54:VAL:HG13	13:CO:59:ALA:HB3	1.86	0.57
15:Cf:136:GLU:OE1	13:Ci:82:ASN:ND2	2.37	0.57
13:Cx:54:VAL:HG13	13:Cx:59:ALA:HB3	1.87	0.57
17:B5:253:ILE:HG13	17:Bz:353:ALA:HB2	1.86	0.57
19:DG:207:ARG:HD3	18:DI:293:VAL:HG23	1.86	0.57
18:DQ:63:ARG:NH2	18:DQ:71:ASP:OD2	2.38	0.57
18:DT:220:VAL:HB	18:DT:260:VAL:HG12	1.87	0.57
19:Da:207:ARG:HD3	18:Dc:293:VAL:HG23	1.86	0.57
18:Dj:220:VAL:HB	18:Dj:260:VAL:HG12	1.87	0.57
19:Dm:165:GLU:OE2	19:Dm:207:ARG:NH2	2.38	0.57
18:Dn:220:VAL:HB	18:Dn:260:VAL:HG12	1.87	0.57
18:Do:63:ARG:NH2	18:Do:71:ASP:OD2	2.38	0.57
7:EZ:201:ALA:HB2	7:EZ:232:MET:HE1	1.86	0.57
7:Es:168:ALA:O	7:Es:172:GLU:HG2	2.03	0.57
6:A3:54:PRO:HG3	5:Q:17:THR:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AY:30:SER:OG	6:Ay:415:ASN:ND2	2.38	0.57
5:AY:161:ARG:NH1	6:As:371:THR:HG22	2.20	0.57
6:Ac:109:PHE:HE1	6:Ac:119:THR:HG22	1.70	0.57
6:Am:39:ALA:HB1	6:Ar:365:GLY:HA2	1.86	0.57
6:Av:49:ASN:ND2	5:V:218:SER:CB	2.67	0.57
5:S:123:ASN:OD1	5:S:127:THR:N	2.38	0.57
9:k:61:ASP:N	9:k:61:ASP:OD1	2.38	0.57
10:o:86:GLY:O	10:o:101:ARG:NH1	2.37	0.57
2:y:189:ILE:HD11	7:Ep:192:PHE:HD1	1.67	0.57
13:CB:321:TRP:HE1	13:CB:374:ASN:ND2	2.03	0.57
17:CI:353:ALA:HB2	17:A7:253:ILE:HG13	1.86	0.57
15:Cu:136:GLU:OE1	13:Cx:82:ASN:ND2	2.37	0.57
17:C2:353:ALA:HB2	17:C7:253:ILE:HG13	1.86	0.57
13:BC:321:TRP:HE1	13:BC:374:ASN:ND2	2.03	0.57
17:BG:353:ALA:HB2	17:BL:253:ILE:HG13	1.86	0.57
15:BJ:136:GLU:OE1	13:BM:82:ASN:ND2	2.38	0.57
13:BW:54:VAL:HG13	13:BW:59:ALA:HB3	1.86	0.57
19:DK:207:ARG:HD3	18:DM:293:VAL:HG23	1.86	0.57
19:De:165:GLU:OE2	19:De:207:ARG:NH2	2.38	0.57
18:Dg:63:ARG:NH2	18:Dg:71:ASP:OD2	2.38	0.57
18:Ds:63:ARG:NH2	18:Ds:71:ASP:OD2	2.38	0.57
7:Ed:171:ILE:HD12	7:Ed:221:ILE:HD12	1.87	0.57
7:El:177:VAL:HG13	7:El:207:LEU:HD23	1.86	0.57
5:A:152:VAL:HG22	5:A:158:VAL:HG22	1.86	0.57
5:AQ:239:ARG:HG3	5:AS:255:MET:HE3	1.86	0.57
5:Aa:45:PHE:HE1	5:R:86:ALA:HB2	1.70	0.57
6:Af:105:ARG:NH1	6:Af:396:GLU:OE2	2.33	0.57
6:Ao:45:SER:OG	6:Ao:46:LEU:N	2.38	0.57
6:At:52:THR:HG23	6:Ay:60:ALA:HB1	1.87	0.57
5:C:99:GLY:O	5:C:116:ARG:NH2	2.37	0.57
5:C:251:VAL:HG22	10:m:19:LEU:HD21	1.87	0.57
6:D:84:SER:OG	6:D:391:ASN:ND2	2.37	0.57
6:F:101:ASN:OD1	6:F:377:LYS:NZ	2.38	0.57
6:I:196:ASP:OD1	6:I:200:GLN:N	2.38	0.57
6:I:327:ASP:OD1	6:I:327:ASP:N	2.37	0.57
9:h:35:SER:OG	10:o:40:GLN:NE2	2.38	0.57
11:v:66:SER:OG	11:v:69:ASP:OD1	2.23	0.57
13:B7:321:TRP:HE1	13:B7:374:ASN:ND2	2.03	0.57
18:CG:141:ASP:HB3	18:CG:144:SER:HB3	1.87	0.57
13:A8:321:TRP:HE1	13:A8:374:ASN:ND2	2.03	0.57
17:CN:353:ALA:HB2	17:CS:253:ILE:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CT:321:TRP:HE1	13:CT:374:ASN:ND2	2.03	0.57
13:Cd:321:TRP:HE1	13:Cd:374:ASN:ND2	2.03	0.57
15:Cp:136:GLU:OE1	13:Cs:82:ASN:ND2	2.37	0.57
13:Cs:321:TRP:HE1	13:Cs:374:ASN:ND2	2.03	0.57
15:Cz:136:GLU:OE1	13:C3:82:ASN:ND2	2.37	0.57
13:B1:54:VAL:HG13	13:B1:59:ALA:HB3	1.87	0.57
15:BO:136:GLU:OE1	13:BR:82:ASN:ND2	2.37	0.57
13:Bv:368:GLN:NE2	18:Dw:94:PRO:O	2.35	0.57
18:DE:63:ARG:NH2	18:DE:71:ASP:OD2	2.38	0.57
19:DO:165:GLU:OE2	19:DO:207:ARG:NH2	2.38	0.57
19:DS:165:GLU:OE2	19:DS:207:ARG:NH2	2.38	0.57
18:Dk:218:VAL:HG21	18:Dk:253:LEU:HD13	1.87	0.57
18:Dn:141:ASP:HB3	18:Dn:144:SER:HB3	1.87	0.57
3:6:15:TRP:CE2	7:Eg:148:PHE:CZ	2.93	0.56
4:8:187:MET:HE2	4:8:240:HIS:HB3	1.85	0.56
7:AK:331:MET:HE3	9:g:52:GLU:HB2	1.87	0.56
5:AZ:161:ARG:HH21	6:At:371:THR:HG22	1.70	0.56
6:Aj:343:ASN:HD22	6:M:372:GLN:HB2	1.70	0.56
6:Aw:174:ASP:HB3	6:Aw:177:GLN:HB2	1.86	0.56
17:CA:353:ALA:HB2	17:CF:253:ILE:HG13	1.86	0.56
15:A0:136:GLU:OE1	13:BC:82:ASN:ND2	2.38	0.56
13:A8:368:GLN:NE2	18:Dc:94:PRO:O	2.35	0.56
17:CS:353:ALA:HB2	17:CX:253:ILE:HG13	1.86	0.56
13:BR:54:VAL:HG13	13:BR:59:ALA:HB3	1.87	0.56
15:Bi:136:GLU:OE1	13:Bl:82:ASN:ND2	2.38	0.56
15:Bn:136:GLU:OE1	13:Bq:82:ASN:ND2	2.37	0.56
19:DC:207:ARG:HD3	18:DE:293:VAL:HG23	1.86	0.56
19:Da:165:GLU:OE2	19:Da:207:ARG:NH2	2.38	0.56
21:EC:17:ASN:CB	7:E3:306:THR:CG2	2.61	0.56
3:7:85:PRO:HG2	7:Eb:191:VAL:HG21	1.86	0.56
7:AI:335:ILE:HD11	9:h:69:GLY:HA3	1.86	0.56
5:AY:122:LEU:O	6:Ay:356:ASN:CG	2.48	0.56
6:Ad:239:ASP:OD1	6:Ad:239:ASP:N	2.26	0.56
6:Ak:327:ASP:N	6:Ak:327:ASP:OD1	2.37	0.56
6:Aq:433:ILE:HD11	6:Av:416:PHE:HZ	1.70	0.56
6:Av:82:ARG:HH11	6:Av:396:GLU:HG2	1.69	0.56
6:H:84:SER:OG	6:H:391:ASN:ND2	2.39	0.56
10:p:82:ILE:HD11	10:p:88:ILE:HG13	1.88	0.56
13:B7:54:VAL:HG13	13:B7:59:ALA:HB3	1.86	0.56
17:CX:353:ALA:HB2	17:Cc:253:ILE:HG13	1.86	0.56
15:Cu:142:LEU:HG	13:Cx:289:ILE:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C3:321:TRP:HE1	13:C3:374:ASN:ND2	2.03	0.56
13:B1:321:TRP:HE1	13:B1:374:ASN:ND2	2.03	0.56
15:BE:136:GLU:OE1	13:BH:82:ASN:ND2	2.37	0.56
13:Bg:321:TRP:HE1	13:Bg:374:ASN:ND2	2.03	0.56
17:Bp:353:ALA:HB2	17:Bu:253:ILE:HG13	1.86	0.56
18:DH:220:VAL:HB	18:DH:260:VAL:HG12	1.87	0.56
18:DU:218:VAL:HG21	18:DU:253:LEU:HD13	1.87	0.56
18:DY:218:VAL:HG21	18:DY:253:LEU:HD13	1.87	0.56
18:Ds:138:SER:OG	18:Ds:148:ARG:NH1	2.35	0.56
7:Ep:215:GLN:NE2	7:Ep:219:ASP:OD1	2.38	0.56
2:1:228:GLN:HA	4:8:136:MET:HE1	1.85	0.56
2:2:144:PHE:HB2	2:z:198:MET:HE2	1.86	0.56
2:3:239:ILE:HG23	12:x:89:LEU:HD22	1.87	0.56
6:A2:239:ASP:OD2	6:A2:250:THR:OG1	2.23	0.56
6:A3:366:THR:HG23	6:Ax:40:ASP:H	1.70	0.56
7:AN:352:ASP:OD1	7:AN:352:ASP:N	2.38	0.56
5:AP:188:ILE:HD13	5:AP:194:LEU:HG	1.88	0.56
5:AT:101:GLY:O	5:AT:116:ARG:NH1	2.38	0.56
6:Ao:183:PRO:HA	6:Ao:186:TYR:CZ	2.40	0.56
6:D:33:GLU:HB3	6:D:400:ILE:HG22	1.86	0.56
6:G:82:ARG:HH11	6:G:396:GLU:HG2	1.70	0.56
6:I:73:ILE:HD13	6:I:397:GLN:HE21	1.71	0.56
5:P:94:ASP:HB2	5:P:220:LEU:HD21	1.87	0.56
5:Q:18:ASN:HD22	5:Q:39:ALA:HB3	1.70	0.56
5:Q:36:LYS:HB3	5:Q:225:VAL:HG12	1.88	0.56
5:S:115:THR:HB	5:S:192:LEU:HD23	1.87	0.56
5:W:94:ASP:HB2	5:W:220:LEU:HD21	1.88	0.56
5:Z:115:THR:HB	5:Z:192:LEU:HD23	1.87	0.56
8:d:20:GLU:OE2	11:u:68:SER:OG	2.20	0.56
9:h:61:ASP:N	9:h:61:ASP:OD1	2.36	0.56
9:l:34:VAL:HG12	9:l:96:LYS:HG2	1.87	0.56
10:m:83:GLU:OE2	10:m:142:ARG:NH2	2.39	0.56
2:y:207:GLU:OE2	7:Ep:194:ARG:CZ	2.54	0.56
15:CL:142:LEU:HG	13:CO:289:ILE:HD12	1.88	0.56
15:Ck:142:LEU:HG	13:Cn:289:ILE:HD12	1.88	0.56
17:Cw:353:ALA:HB2	17:C2:253:ILE:HG13	1.86	0.56
13:C3:54:VAL:HG13	13:C3:59:ALA:HB3	1.87	0.56
15:C5:142:LEU:HG	13:C8:289:ILE:HD12	1.88	0.56
18:DA:218:VAL:HG21	18:DA:253:LEU:HD13	1.87	0.56
18:DA:220:VAL:HB	18:DA:260:VAL:HG12	1.88	0.56
18:DA:293:VAL:HG23	19:Dy:207:ARG:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B6:54:VAL:HG13	13:B6:59:ALA:HB3	1.86	0.56
17:BB:353:ALA:HB2	17:BG:253:ILE:HG13	1.86	0.56
13:BH:321:TRP:HE1	13:BH:374:ASN:ND2	2.03	0.56
17:BQ:353:ALA:HB2	17:BV:253:ILE:HG13	1.86	0.56
13:Bb:321:TRP:HE1	13:Bb:374:ASN:ND2	2.03	0.56
13:Bl:321:TRP:HE1	13:Bl:374:ASN:ND2	2.03	0.56
17:Bu:353:ALA:HB2	17:Bz:253:ILE:HG13	1.86	0.56
18:DI:63:ARG:NH2	18:DI:71:ASP:OD2	2.38	0.56
18:DM:220:VAL:HB	18:DM:260:VAL:HG12	1.87	0.56
19:DO:207:ARG:HD3	18:DQ:293:VAL:HG23	1.86	0.56
18:Dc:63:ARG:NH2	18:Dc:71:ASP:OD2	2.38	0.56
18:Dk:63:ARG:NH2	18:Dk:71:ASP:OD2	2.38	0.56
18:Do:218:VAL:HG21	18:Do:253:LEU:HD13	1.87	0.56
18:Do:220:VAL:HB	18:Do:260:VAL:HG12	1.88	0.56
19:Dq:165:GLU:OE2	19:Dq:207:ARG:NH2	2.38	0.56
18:Dv:220:VAL:HB	18:Dv:260:VAL:HG12	1.87	0.56
18:Dw:63:ARG:NH2	18:Dw:71:ASP:OD2	2.38	0.56
18:Dw:220:VAL:HB	18:Dw:260:VAL:HG12	1.87	0.56
7:EX:168:ALA:O	7:EX:172:GLU:HG2	2.05	0.56
6:Ac:39:ALA:HB1	6:Ah:365:GLY:HA2	1.88	0.56
6:Aj:427:ASN:OD1	6:Ap:414:ARG:NH1	2.38	0.56
6:Ao:427:ASN:OD1	6:Au:414:ARG:NH1	2.38	0.56
6:L:330:GLU:OE2	6:L:331:ASN:ND2	2.39	0.56
5:Z:24:ASN:ND2	5:Z:34:TYR:OH	2.37	0.56
5:a:57:SER:OG	5:a:58:GLN:N	2.39	0.56
15:B9:142:LEU:HG	13:CB:289:ILE:HD12	1.88	0.56
13:BM:54:VAL:HG13	13:BM:59:ALA:HB3	1.87	0.56
17:Bk:353:ALA:HB2	17:Bp:253:ILE:HG13	1.86	0.56
15:Bs:142:LEU:HG	13:Bv:289:ILE:HD12	1.88	0.56
18:DI:220:VAL:HB	18:DI:260:VAL:HG12	1.88	0.56
18:DL:220:VAL:HB	18:DL:260:VAL:HG12	1.87	0.56
18:Db:220:VAL:HB	18:Db:260:VAL:HG12	1.87	0.56
19:Dy:165:GLU:OE2	19:Dy:207:ARG:NH2	2.38	0.56
3:5:31:ILE:HG13	3:5:57:VAL:HG21	1.88	0.56
6:Ac:414:ARG:NH1	6:K:427:ASN:OD1	2.38	0.56
6:Ao:33:GLU:HB3	6:Ao:400:ILE:HG22	1.87	0.56
6:Ao:84:SER:OG	6:Ao:391:ASN:ND2	2.38	0.56
6:Ap:183:PRO:HA	6:Ap:186:TYR:CZ	2.40	0.56
9:g:75:LYS:O	9:g:98:ASN:ND2	2.33	0.56
9:j:108:MET:HE2	10:m:231:MET:HE2	1.87	0.56
13:CJ:321:TRP:HE1	13:CJ:374:ASN:ND2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CV:142:LEU:HG	13:CY:289:ILE:HD12	1.88	0.56
15:Bi:142:LEU:HG	13:Bl:289:ILE:HD12	1.88	0.56
18:DE:218:VAL:HG21	18:DE:253:LEU:HD13	1.87	0.56
19:DG:165:GLU:OE2	19:DG:207:ARG:NH2	2.38	0.56
18:DM:138:SER:OG	18:DM:148:ARG:NH1	2.35	0.56
19:Du:207:ARG:HD3	18:Dw:293:VAL:HG23	1.86	0.56
7:EX:176:GLN:OE1	7:EX:176:GLN:N	2.39	0.56
7:Ea:201:ALA:O	7:Ep:227:SER:OG	2.23	0.56
7:Et:159:LEU:O	7:Et:162:SER:OG	2.19	0.56
2:3:136:GLY:HA3	4:8:87:MET:HE2	1.87	0.56
6:A1:40:ASP:OD2	6:A1:42:TYR:CE1	2.58	0.56
6:A1:42:TYR:CD1	5:Aa:187:PRO:HB2	2.40	0.56
6:A1:427:ASN:HD21	5:P:235:ILE:CG2	2.15	0.56
7:AO:335:ILE:O	7:AO:340:SER:OG	2.14	0.56
6:Af:168:ALA:HA	6:Af:303:GLN:HE21	1.71	0.56
6:Ag:196:ASP:OD1	6:Ag:200:GLN:N	2.38	0.56
6:Ao:433:ILE:HD11	6:At:416:PHE:HZ	1.70	0.56
6:Aq:84:SER:OG	6:Aq:391:ASN:ND2	2.39	0.56
6:Ar:40:ASP:H	6:Aw:366:THR:HG23	1.71	0.56
6:At:105:ARG:NH1	6:At:396:GLU:OE1	2.39	0.56
6:Ay:434:LEU:HD12	5:T:231:LEU:HD13	1.87	0.56
6:D:40:ASP:H	6:I:366:THR:HG23	1.70	0.56
6:E:327:ASP:N	6:E:327:ASP:OD1	2.38	0.56
6:G:84:SER:OG	6:G:391:ASN:ND2	2.38	0.56
6:N:69:GLU:OE1	6:N:82:ARG:NH2	2.39	0.56
5:P:43:ASP:OD1	5:V:191:ASN:ND2	2.38	0.56
5:P:184:GLY:O	5:P:196:THR:OG1	2.23	0.56
10:o:40:GLN:NE2	10:o:60:GLU:OE2	2.35	0.56
18:CG:220:VAL:HB	18:CG:260:VAL:HG12	1.87	0.56
15:A5:142:LEU:HG	13:A8:289:ILE:HD12	1.88	0.56
13:CO:321:TRP:HE1	13:CO:374:ASN:ND2	2.03	0.56
17:Cc:353:ALA:HB2	17:Ch:253:ILE:HG13	1.86	0.56
13:Cn:321:TRP:HE1	13:Cn:374:ASN:ND2	2.03	0.56
13:C8:368:GLN:NE2	18:DY:94:PRO:O	2.35	0.56
15:BE:142:LEU:HG	13:BH:289:ILE:HD12	1.88	0.56
13:BH:54:VAL:HG13	13:BH:59:ALA:HB3	1.87	0.56
19:DW:207:ARG:HD3	18:DY:293:VAL:HG23	1.86	0.56
19:Dq:207:ARG:HD3	18:Ds:293:VAL:HG23	1.86	0.56
19:Du:152:GLU:OE2	19:Du:184:ARG:NH2	2.38	0.56
18:Dw:218:VAL:HG21	18:Dw:253:LEU:HD13	1.87	0.56
20:D7:5:ARG:HA	7:EG:319:SER:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ec:207:LEU:N	7:Ec:242:GLN:OE1	2.39	0.56
7:Eg:178:ARG:NH1	7:Eg:207:LEU:O	2.37	0.56
6:Aq:183:PRO:HA	6:Aq:186:TYR:CZ	2.41	0.56
6:Ar:427:ASN:OD1	6:Ax:414:ARG:NH1	2.39	0.56
10:p:86:GLY:O	10:p:101:ARG:NH1	2.39	0.56
11:v:37:LEU:CD2	23:v:201:XKP:C	2.83	0.56
17:Cm:326:LEU:HD22	17:Cm:343:LEU:HD21	1.88	0.56
13:B1:289:ILE:HD12	15:Bx:142:LEU:HG	1.88	0.56
15:B3:142:LEU:HG	13:B6:289:ILE:HD12	1.88	0.56
13:BC:54:VAL:HG13	13:BC:59:ALA:HB3	1.86	0.56
13:BW:321:TRP:HE1	13:BW:374:ASN:ND2	2.03	0.56
15:BY:142:LEU:HG	13:Bb:289:ILE:HD12	1.88	0.56
17:Ba:326:LEU:HD22	17:Ba:343:LEU:HD21	1.88	0.56
17:Bf:326:LEU:HD22	17:Bf:343:LEU:HD21	1.88	0.56
13:Bq:321:TRP:HE1	13:Bq:374:ASN:ND2	2.03	0.56
18:Df:220:VAL:HB	18:Df:260:VAL:HG12	1.87	0.56
7:AB:342:GLN:OE1	7:Eu:327:ASN:ND2	2.39	0.56
7:AH:335:ILE:HD12	7:AN:356:MET:HE1	1.88	0.56
6:Ag:381:GLU:OE1	6:Ag:384:LYS:NZ	2.31	0.56
6:At:49:ASN:HD22	5:T:218:SER:CB	2.17	0.56
6:Au:109:PHE:HE1	6:Au:119:THR:HG22	1.71	0.56
6:D:327:ASP:OD1	6:D:327:ASP:N	2.37	0.56
5:Z:185:LEU:HB3	5:Z:193:TYR:HB3	1.88	0.56
10:n:126:ASP:OD1	10:n:165:LYS:NZ	2.31	0.56
13:CB:54:VAL:HG13	13:CB:59:ALA:HB3	1.86	0.56
17:Ch:326:LEU:HD22	17:Ch:343:LEU:HD21	1.88	0.56
13:Ci:321:TRP:HE1	13:Ci:374:ASN:ND2	2.03	0.56
13:C8:54:VAL:HG13	13:C8:59:ALA:HB3	1.86	0.56
13:Bv:321:TRP:HE1	13:Bv:374:ASN:ND2	2.03	0.56
19:DJ:64:ALA:O	19:DJ:68:ARG:HB2	2.06	0.56
18:DU:63:ARG:NH2	18:DU:71:ASP:OD2	2.38	0.56
18:Dk:220:VAL:HB	18:Dk:260:VAL:HG12	1.87	0.56
6:A3:231:LYS:HB3	6:A3:281:THR:HB	1.88	0.56
5:AZ:92:ALA:HB3	6:Ao:47:PHE:O	2.05	0.56
6:Ap:84:SER:OG	6:Ap:391:ASN:ND2	2.39	0.56
6:Ap:196:ASP:OD1	6:Ap:200:GLN:N	2.35	0.56
6:Ar:49:ASN:O	6:Ar:50:ALA:HB2	2.06	0.56
15:Ck:136:GLU:OE1	13:Cn:82:ASN:ND2	2.38	0.56
17:C7:326:LEU:HD22	17:C7:343:LEU:HD21	1.88	0.56
17:BG:326:LEU:HD22	17:BG:343:LEU:HD21	1.88	0.56
17:BL:326:LEU:HD22	17:BL:343:LEU:HD21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:321:TRP:HE1	13:BM:374:ASN:ND2	2.03	0.56
15:BO:142:LEU:HG	13:BR:289:ILE:HD12	1.88	0.56
17:Bk:326:LEU:HD22	17:Bk:343:LEU:HD21	1.88	0.56
18:DP:220:VAL:HB	18:DP:260:VAL:HG12	1.87	0.56
19:DS:207:ARG:HD3	18:DU:293:VAL:HG23	1.86	0.56
19:DV:64:ALA:O	19:DV:68:ARG:HB2	2.06	0.56
19:Dx:64:ALA:O	19:Dx:68:ARG:HB2	2.06	0.56
7:Ea:241:ASP:OD1	7:Ea:244:GLY:N	2.39	0.56
7:Eo:153:ARG:HA	7:Eo:153:ARG:HE	1.69	0.56
7:Eo:227:SER:OG	7:Et:201:ALA:O	2.18	0.56
6:A2:46:LEU:HD11	5:a:150:ILE:CG1	2.36	0.56
5:AX:168:ASN:OD1	5:AX:168:ASN:N	2.35	0.56
5:AZ:163:ARG:NH1	6:Az:383:ASN:C	2.64	0.56
6:Aj:196:ASP:OD1	6:Aj:200:GLN:N	2.34	0.56
5:B:166:GLN:HG2	5:B:167:ASP:OD1	2.06	0.56
5:R:99:GLY:O	5:R:116:ARG:NH2	2.39	0.56
5:S:48:ASN:HD21	5:S:51:GLN:HE21	1.54	0.56
5:T:240:VAL:O	5:T:244:ASN:ND2	2.39	0.56
5:Z:91:ASN:HD22	5:Z:93:LEU:H	1.52	0.56
17:CI:326:LEU:HD22	17:CI:343:LEU:HD21	1.88	0.56
17:A7:353:ALA:HB2	17:BB:253:ILE:HG13	1.86	0.56
17:CS:326:LEU:HD22	17:CS:343:LEU:HD21	1.88	0.56
15:Ca:142:LEU:HG	13:Cd:289:ILE:HD12	1.88	0.56
15:Cf:142:LEU:HG	13:Ci:289:ILE:HD12	1.88	0.56
17:Ch:353:ALA:HB2	17:Cm:253:ILE:HG13	1.86	0.56
17:Cr:326:LEU:HD22	17:Cr:343:LEU:HD21	1.88	0.56
13:C8:321:TRP:HE1	13:C8:374:ASN:ND2	2.03	0.56
17:BV:353:ALA:HB2	17:Ba:253:ILE:HG13	1.86	0.56
17:Ba:353:ALA:HB2	17:Bf:253:ILE:HG13	1.86	0.56
13:Bl:368:GLN:NE2	18:Ds:94:PRO:O	2.35	0.56
15:Bn:142:LEU:HG	13:Bq:289:ILE:HD12	1.88	0.56
18:DD:141:ASP:HB3	18:DD:144:SER:HB3	1.87	0.56
18:DQ:218:VAL:HG21	18:DQ:253:LEU:HD13	1.87	0.56
18:Dj:141:ASP:HB3	18:Dj:144:SER:HB3	1.87	0.56
19:Dt:64:ALA:O	19:Dt:68:ARG:HB2	2.06	0.56
7:Ed:227:SER:OG	7:Ee:201:ALA:O	2.24	0.56
7:Ek:168:ALA:O	7:Ek:172:GLU:HG2	2.06	0.56
7:Es:176:GLN:OE1	7:Es:176:GLN:N	2.33	0.56
6:A2:427:ASN:HD21	5:Q:235:ILE:HG21	1.67	0.55
5:AP:94:ASP:HB2	5:AP:220:LEU:HD21	1.88	0.55
5:AP:251:VAL:HG22	10:p:19:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AZ:226:ASN:OD1	6:Ay:13:GLN:NE2	2.38	0.55
6:Ae:39:ALA:HB1	6:Aj:365:GLY:HA2	1.87	0.55
6:Aq:430:GLN:OE1	6:Aw:414:ARG:NH1	2.38	0.55
6:Ar:47:PHE:O	5:Q:92:ALA:HB2	2.05	0.55
6:Ay:42:TYR:CE2	6:Ay:55:GLY:HA3	2.41	0.55
6:M:84:SER:OG	6:M:391:ASN:ND2	2.38	0.55
6:O:130:VAL:HG22	6:O:347:GLY:HA2	1.88	0.55
5:U:50:ASN:HB2	5:U:66:LEU:H	1.71	0.55
5:X:184:GLY:O	5:X:196:THR:OG1	2.24	0.55
9:h:108:MET:HE2	10:o:231:MET:HE2	1.87	0.55
2:z:197:THR:HG21	7:Eb:194:ARG:CD	2.36	0.55
17:CX:326:LEU:HD22	17:CX:343:LEU:HD21	1.88	0.55
17:Cm:353:ALA:HB2	17:Cr:253:ILE:HG13	1.86	0.55
17:C2:326:LEU:HD22	17:C2:343:LEU:HD21	1.88	0.55
18:DA:138:SER:OG	18:DA:148:ARG:NH1	2.35	0.55
17:BB:326:LEU:HD22	17:BB:343:LEU:HD21	1.88	0.55
17:BQ:326:LEU:HD22	17:BQ:343:LEU:HD21	1.88	0.55
17:Bf:353:ALA:HB2	17:Bk:253:ILE:HG13	1.86	0.55
17:Bz:326:LEU:HD22	17:Bz:343:LEU:HD21	1.88	0.55
19:DF:64:ALA:O	19:DF:68:ARG:HB2	2.06	0.55
18:DP:141:ASP:HB3	18:DP:144:SER:HB3	1.87	0.55
18:Db:112:GLN:HB2	19:Dd:161:PRO:HG2	1.88	0.55
18:Db:141:ASP:HB3	18:Db:144:SER:HB3	1.87	0.55
19:Dh:64:ALA:O	19:Dh:68:ARG:HB2	2.06	0.55
19:Dy:152:GLU:OE2	19:Dy:184:ARG:NH2	2.38	0.55
20:D9:7:ASP:CB	7:ES:374:ASN:OD1	2.55	0.55
7:EX:201:ALA:O	7:EY:227:SER:OG	2.24	0.55
7:Ea:203:VAL:HG13	7:Ea:239:VAL:HG22	1.87	0.55
7:Eb:207:LEU:N	7:Eb:242:GLN:OE1	2.38	0.55
7:Ee:241:ASP:OD1	7:Ee:245:ARG:N	2.39	0.55
7:El:177:VAL:HA	7:El:207:LEU:HA	1.87	0.55
2:2:206:PRO:CG	7:Ee:194:ARG:HH11	2.16	0.55
3:6:15:TRP:CE2	7:Eg:148:PHE:HZ	2.25	0.55
7:AF:350:PRO:O	7:AF:351:GLN:C	2.50	0.55
5:AT:86:ALA:HB2	5:V:45:PHE:HE1	1.70	0.55
5:AT:123:ASN:OD1	5:AT:127:THR:N	2.38	0.55
6:Ak:304:PHE:HA	6:N:198:MET:HE1	1.88	0.55
6:Az:46:LEU:HD11	5:Z:150:ILE:HG13	1.86	0.55
6:H:330:GLU:OE2	6:H:331:ASN:ND2	2.39	0.55
15:A0:142:LEU:HG	13:BC:289:ILE:HD12	1.88	0.55
13:CJ:289:ILE:HD12	15:C0:142:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A8:54:VAL:HG13	13:A8:59:ALA:HB3	1.87	0.55
17:B5:326:LEU:HD22	17:B5:343:LEU:HD21	1.88	0.55
18:DH:141:ASP:HB3	18:DH:144:SER:HB3	1.87	0.55
18:DL:141:ASP:HB3	18:DL:144:SER:HB3	1.87	0.55
18:DT:141:ASP:HB3	18:DT:144:SER:HB3	1.87	0.55
18:DX:141:ASP:HB3	18:DX:144:SER:HB3	1.87	0.55
18:DY:220:VAL:HB	18:DY:260:VAL:HG12	1.88	0.55
19:Dq:152:GLU:OE2	19:Dq:184:ARG:NH2	2.38	0.55
18:Ds:218:VAL:HG21	18:Ds:253:LEU:HD13	1.87	0.55
18:Ds:220:VAL:HB	18:Ds:260:VAL:HG12	1.88	0.55
7:D5:372:THR:CG2	20:D7:7:ASP:H	2.20	0.55
7:Ed:168:ALA:O	7:Ed:172:GLU:HG2	2.07	0.55
6:A2:49:ASN:HD21	5:a:218:SER:HB3	1.71	0.55
5:AR:184:GLY:O	5:AR:196:THR:OG1	2.24	0.55
5:AS:226:ASN:HB3	5:AS:229:GLU:HB2	1.87	0.55
6:Ae:343:ASN:HD22	6:H:372:GLN:HB2	1.72	0.55
6:Az:372:GLN:HE22	5:U:168:ASN:HB2	1.63	0.55
5:R:50:ASN:HB2	5:R:66:LEU:H	1.71	0.55
5:R:123:ASN:HD21	5:R:127:THR:HB	1.70	0.55
5:X:115:THR:HB	5:X:192:LEU:HD23	1.88	0.55
2:y:220:THR:HG23	2:z:276:TRP:HB3	1.88	0.55
17:CN:326:LEU:HD22	17:CN:343:LEU:HD21	1.88	0.55
17:Cc:326:LEU:HD22	17:Cc:343:LEU:HD21	1.88	0.55
17:BV:326:LEU:HD22	17:BV:343:LEU:HD21	1.88	0.55
17:Bp:326:LEU:HD22	17:Bp:343:LEU:HD21	1.88	0.55
17:Bu:326:LEU:HD22	17:Bu:343:LEU:HD21	1.88	0.55
18:DM:218:VAL:HG21	18:DM:253:LEU:HD13	1.87	0.55
18:DU:220:VAL:HB	18:DU:260:VAL:HG12	1.87	0.55
18:DX:112:GLN:HB2	19:DZ:161:PRO:HG2	1.88	0.55
18:Dc:138:SER:OG	18:Dc:148:ARG:NH1	2.35	0.55
19:Dd:64:ALA:O	19:Dd:68:ARG:HB2	2.06	0.55
18:Dj:112:GLN:HB2	19:Dl:161:PRO:HG2	1.88	0.55
18:Dn:247:TYR:O	18:Dn:250:SER:OG	2.20	0.55
7:EX:227:SER:OG	7:Eb:201:ALA:O	2.23	0.55
7:Eq:201:ALA:O	7:Er:227:SER:OG	2.25	0.55
7:Es:184:LEU:HD21	7:Es:229:VAL:HG21	1.88	0.55
2:1:92:LEU:HD13	22:t:202:PGT:H192	1.88	0.55
2:2:115:VAL:HG11	2:2:283:LEU:HD11	1.87	0.55
3:6:64:LEU:HD21	7:Ee:148:PHE:CE2	2.38	0.55
6:A1:13:GLN:NE2	5:P:226:ASN:HD21	2.01	0.55
6:A2:42:TYR:CD2	5:P:187:PRO:HB3	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:42:TYR:CD1	6:A3:55:GLY:HA2	2.41	0.55
6:A3:111:LEU:HD11	6:A3:147:ILE:HD12	1.88	0.55
5:Aa:228:THR:HG23	6:Au:433:ILE:CD1	2.36	0.55
6:Ad:409:LEU:HD21	6:M:422:SER:HA	1.89	0.55
6:Al:33:GLU:HB3	6:Al:400:ILE:HG22	1.89	0.55
6:Aq:38:PHE:HB2	6:Av:28:THR:HG22	1.88	0.55
6:G:196:ASP:OD1	6:G:200:GLN:N	2.40	0.55
6:J:40:ASP:H	6:O:366:THR:HG23	1.70	0.55
5:U:99:GLY:O	5:U:116:ARG:NH2	2.39	0.55
5:V:176:ILE:HG13	5:V:212:LEU:HD22	1.88	0.55
8:c:50:GLN:HE22	7:D3:368:ARG:HH22	1.52	0.55
9:l:22:ASN:HD22	10:q:54:ARG:HE	1.53	0.55
2:y:187:THR:O	7:Eq:192:PHE:CD1	2.59	0.55
13:B7:289:ILE:HD12	15:CD:142:LEU:HG	1.88	0.55
17:A7:326:LEU:HD22	17:A7:343:LEU:HD21	1.88	0.55
17:Cw:326:LEU:HD22	17:Cw:343:LEU:HD21	1.88	0.55
13:BC:297:VAL:HG13	13:BC:302:VAL:HG12	1.88	0.55
15:BJ:142:LEU:HG	13:BM:289:ILE:HD12	1.88	0.55
13:BM:297:VAL:HG13	13:BM:302:VAL:HG12	1.88	0.55
13:BR:321:TRP:HE1	13:BR:374:ASN:ND2	2.03	0.55
15:Bd:142:LEU:HG	13:Bg:289:ILE:HD12	1.88	0.55
18:Dc:220:VAL:HB	18:Dc:260:VAL:HG12	1.87	0.55
18:Df:112:GLN:HB2	19:Dh:161:PRO:HG2	1.88	0.55
18:Df:141:ASP:HB3	18:Df:144:SER:HB3	1.87	0.55
19:Di:152:GLU:OE2	19:Di:184:ARG:NH2	2.38	0.55
18:Dr:220:VAL:HB	18:Dr:260:VAL:HG12	1.87	0.55
7:Ea:241:ASP:OD1	7:Ea:245:ARG:N	2.38	0.55
7:En:206:THR:HA	7:En:242:GLN:HB3	1.89	0.55
3:5:15:TRP:CE2	7:EZ:148:PHE:CB	2.90	0.55
3:6:40:ALA:HA	4:8:211:GLN:HG3	1.87	0.55
6:A2:372:GLN:HE22	5:W:168:ASN:HB2	1.71	0.55
5:AQ:100:ASP:OD1	5:AQ:100:ASP:N	2.38	0.55
5:AU:99:GLY:O	5:AU:116:ARG:NH2	2.38	0.55
5:AY:50:ASN:HB2	5:AY:66:LEU:H	1.71	0.55
5:AZ:119:GLN:HE21	6:Az:35:ARG:CZ	2.12	0.55
6:Aj:84:SER:OG	6:Aj:391:ASN:ND2	2.39	0.55
6:E:415:ASN:O	6:E:419:ASN:ND2	2.39	0.55
5:V:146:ASP:HB2	5:V:162:VAL:HG13	1.89	0.55
5:V:146:ASP:OD1	5:V:146:ASP:N	2.39	0.55
5:Z:240:VAL:O	5:Z:244:ASN:ND2	2.33	0.55
17:CF:326:LEU:HD22	17:CF:343:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CJ:297:VAL:HG13	13:CJ:302:VAL:HG12	1.88	0.55
17:Cr:353:ALA:HB2	17:Cw:253:ILE:HG13	1.86	0.55
17:C2:122:THR:HG23	17:C2:135:ALA:HB3	1.89	0.55
18:DA:89:ILE:HD11	13:B6:362:ASN:ND2	2.12	0.55
15:BT:142:LEU:HG	13:BW:289:ILE:HD12	1.88	0.55
17:BV:122:THR:HG23	17:BV:135:ALA:HB3	1.89	0.55
7:En:163:ARG:O	7:En:166:GLN:HG2	2.07	0.55
2:1:268:MET:HE1	3:7:1:MET:HG3	1.88	0.55
5:AP:101:GLY:O	5:AP:116:ARG:NH1	2.35	0.55
5:AZ:239:ARG:HH22	6:Ay:431:GLN:NE2	2.05	0.55
5:Aa:16:GLN:NE2	5:V:228:THR:OG1	2.39	0.55
6:Ap:171:ASP:N	6:Ap:171:ASP:OD1	2.35	0.55
6:F:427:ASN:OD1	6:L:414:ARG:NH1	2.40	0.55
8:c:20:GLU:OE2	11:t:68:SER:OG	2.24	0.55
17:CA:326:LEU:HD22	17:CA:343:LEU:HD21	1.88	0.55
13:CJ:54:VAL:HG13	13:CJ:59:ALA:HB3	1.87	0.55
15:Cp:142:LEU:HG	13:Cs:289:ILE:HD12	1.88	0.55
17:Cw:122:THR:HG23	17:Cw:135:ALA:HB3	1.89	0.55
15:Cz:142:LEU:HG	13:C3:289:ILE:HD12	1.88	0.55
17:BB:122:THR:HG23	17:BB:135:ALA:HB3	1.89	0.55
17:BG:122:THR:HG23	17:BG:135:ALA:HB3	1.89	0.55
13:BR:72:GLU:CG	16:BU:6:PRO:HA	2.37	0.55
13:BR:362:ASN:ND2	18:Dk:89:ILE:HD11	2.12	0.55
18:Dr:247:TYR:O	18:Dr:250:SER:OG	2.20	0.55
7:Ed:218:VAL:HG21	7:Ed:247:LEU:HB3	1.87	0.55
7:Ed:246:LEU:HD22	7:Ed:248:SER:O	2.06	0.55
2:1:103:VAL:O	2:1:107:THR:HG22	2.05	0.55
5:AW:96:MET:HE3	5:AW:221:GLU:HG3	1.87	0.55
5:Aa:239:ARG:NH1	5:Aa:242:GLU:OE1	2.39	0.55
6:Af:174:ASP:HB3	6:Af:177:GLN:HB2	1.88	0.55
6:An:77:ASN:HD21	6:An:79:MET:HB2	1.72	0.55
9:g:20:ARG:HH21	9:g:111:ALA:HA	1.71	0.55
9:g:129:LEU:HD22	11:w:67:LEU:HD12	1.88	0.55
13:B7:297:VAL:HG13	13:B7:302:VAL:HG12	1.88	0.55
13:CB:297:VAL:HG13	13:CB:302:VAL:HG12	1.88	0.55
17:A7:122:THR:HG23	17:A7:135:ALA:HB3	1.89	0.55
17:Ch:122:THR:HG23	17:Ch:135:ALA:HB3	1.89	0.55
17:Cm:122:THR:HG23	17:Cm:135:ALA:HB3	1.89	0.55
17:BQ:122:THR:HG23	17:BQ:135:ALA:HB3	1.89	0.55
17:Ba:122:THR:HG23	17:Ba:135:ALA:HB3	1.89	0.55
13:Bg:72:GLU:CG	16:Bj:6:PRO:HA	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bk:122:THR:HG23	17:Bk:135:ALA:HB3	1.89	0.55
18:DE:220:VAL:HB	18:DE:260:VAL:HG12	1.88	0.55
18:Dn:112:GLN:HB2	19:Dp:161:PRO:HG2	1.88	0.55
7:Ee:153:ARG:HA	7:Ee:153:ARG:HE	1.70	0.55
7:Ee:207:LEU:N	7:Ee:242:GLN:OE1	2.40	0.55
2:3:112:ILE:HD13	2:3:141:LEU:HB3	1.89	0.55
3:5:86:GLN:HE21	7:EY:153:ARG:NH1	2.05	0.55
6:A1:366:THR:HG23	6:Av:40:ASP:H	1.72	0.55
6:A2:365:GLY:HA2	6:Aw:39:ALA:HB1	1.88	0.55
5:AQ:259:ASN:O	9:i:120:GLN:NE2	2.39	0.55
6:Am:371:THR:H	6:Am:374:SER:HG	1.52	0.55
6:Aq:40:ASP:H	6:Av:366:THR:HG23	1.71	0.55
6:As:38:PHE:HB2	6:Ax:28:THR:HG22	1.89	0.55
5:C:214:GLU:OE1	5:C:216:ARG:NH1	2.32	0.55
9:k:3:LEU:HD21	9:k:128:MET:HE3	1.89	0.55
13:CT:72:GLU:CG	16:CW:6:PRO:HA	2.37	0.55
13:CY:72:GLU:CG	16:Cb:6:PRO:HA	2.37	0.55
13:Ci:72:GLU:CG	16:Cl:6:PRO:HA	2.37	0.55
13:Cx:72:GLU:CG	16:C1:6:PRO:HA	2.37	0.55
13:C3:297:VAL:HG13	13:C3:302:VAL:HG12	1.88	0.55
17:C7:122:THR:HG23	17:C7:135:ALA:HB3	1.89	0.55
13:BC:72:GLU:CG	16:BF:6:PRO:HA	2.37	0.55
18:DI:218:VAL:HG21	18:DI:253:LEU:HD13	1.87	0.55
19:DN:64:ALA:O	19:DN:68:ARG:HB2	2.06	0.55
19:Dp:64:ALA:O	19:Dp:68:ARG:HB2	2.06	0.55
7:Em:163:ARG:NH2	7:Em:228:ALA:O	2.39	0.55
7:Eq:191:VAL:HG22	7:Eq:192:PHE:H	1.72	0.55
3:7:4:GLU:HB2	7:Ed:152:GLN:NE2	2.20	0.55
6:A2:372:GLN:NE2	5:W:168:ASN:OD1	2.38	0.55
6:A3:115:ASN:ND2	6:A3:147:ILE:O	2.39	0.55
6:A3:434:LEU:HD11	5:S:243:MET:CE	2.37	0.55
5:AS:49:ILE:HG22	5:AS:50:ASN:H	1.72	0.55
6:As:23:ILE:HG23	6:As:402:MET:HE1	1.89	0.55
6:L:327:ASP:OD1	6:L:327:ASP:N	2.40	0.55
6:O:84:SER:OG	6:O:391:ASN:ND2	2.40	0.55
5:T:258:VAL:HG13	5:T:262:LEU:HD22	1.89	0.55
13:B7:72:GLU:CG	16:CM:6:PRO:HA	2.37	0.55
17:CI:122:THR:HG23	17:CI:135:ALA:HB3	1.89	0.55
13:CO:297:VAL:HG13	13:CO:302:VAL:HG12	1.88	0.55
13:B6:297:VAL:HG13	13:B6:302:VAL:HG12	1.88	0.55
13:BW:297:VAL:HG13	13:BW:302:VAL:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DB:136:ARG:NH2	19:DB:166:ASP:OD2	2.40	0.55
18:DD:220:VAL:HB	18:DD:260:VAL:HG12	1.87	0.55
19:DG:152:GLU:OE2	19:DG:184:ARG:NH2	2.38	0.55
18:DT:112:GLN:HB2	19:DV:161:PRO:HG2	1.88	0.55
19:DZ:64:ALA:O	19:DZ:68:ARG:HB2	2.06	0.55
18:Dn:272:ASN:OD1	18:Dn:281:ASN:ND2	2.40	0.55
18:Dr:112:GLN:HB2	19:Dt:161:PRO:HG2	1.88	0.55
7:EZ:168:ALA:O	7:EZ:172:GLU:HG2	2.07	0.55
7:Ef:146:MET:HG3	7:Ef:158:ARG:HH11	1.71	0.55
7:Et:163:ARG:HA	7:Et:166:GLN:HE21	1.72	0.55
3:5:13:ALA:HB1	2:z:239:ILE:HD11	1.89	0.55
3:6:8:GLU:OE2	7:Eh:152:GLN:HB2	2.07	0.55
5:A:36:LYS:HB3	5:A:225:VAL:HG12	1.89	0.55
6:Ar:111:LEU:HD11	6:Ar:147:ILE:HD12	1.89	0.55
6:Aw:327:ASP:OD1	6:Aw:327:ASP:N	2.40	0.55
13:CB:72:GLU:CG	16:CE:6:PRO:HA	2.37	0.55
13:CJ:72:GLU:CG	16:A6:6:PRO:HA	2.37	0.55
15:CQ:142:LEU:HG	13:CT:289:ILE:HD12	1.88	0.55
13:CT:297:VAL:HG13	13:CT:302:VAL:HG12	1.88	0.55
17:CX:122:THR:HG23	17:CX:135:ALA:HB3	1.89	0.55
13:CY:297:VAL:HG13	13:CY:302:VAL:HG12	1.88	0.55
17:Bf:122:THR:HG23	17:Bf:135:ALA:HB3	1.89	0.55
13:Bv:72:GLU:CG	16:By:6:PRO:HA	2.37	0.55
18:DP:272:ASN:OD1	18:DP:281:ASN:ND2	2.40	0.55
19:DV:136:ARG:NH2	19:DV:166:ASP:OD2	2.40	0.55
7:Ej:164:GLU:HG2	7:Ej:184:LEU:HD13	1.88	0.55
6:A1:239:ASP:OD1	6:A1:239:ASP:N	2.36	0.54
5:AR:246:LYS:NZ	5:AW:262:LEU:OXT	2.40	0.54
5:AW:116:ARG:NH1	5:AW:221:GLU:OE2	2.40	0.54
5:AZ:185:LEU:HB3	5:AZ:193:TYR:HB3	1.89	0.54
6:Ag:174:ASP:HB3	6:Ag:177:GLN:HB2	1.89	0.54
6:Am:276:PRO:HA	6:Am:282:PRO:HG3	1.89	0.54
6:An:183:PRO:HA	6:An:186:TYR:CZ	2.43	0.54
6:As:327:ASP:N	6:As:327:ASP:OD1	2.37	0.54
6:H:196:ASP:OD1	6:H:200:GLN:N	2.36	0.54
5:P:188:ILE:HD13	5:P:194:LEU:HG	1.89	0.54
5:X:48:ASN:HD21	5:X:51:GLN:HE21	1.56	0.54
10:p:244:SER:HA	10:p:247:ARG:HG3	1.90	0.54
16:CH:6:PRO:HA	13:C8:72:GLU:CG	2.37	0.54
17:CS:122:THR:HG23	17:CS:135:ALA:HB3	1.89	0.54
17:Cc:122:THR:HG23	17:Cc:135:ALA:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cd:297:VAL:HG13	13:Cd:302:VAL:HG12	1.88	0.54
13:Cn:72:GLU:CG	16:Cq:6:PRO:HA	2.37	0.54
17:Cr:122:THR:HG23	17:Cr:135:ALA:HB3	1.89	0.54
13:BH:72:GLU:CG	16:BK:6:PRO:HA	2.37	0.54
17:BL:122:THR:HG23	17:BL:135:ALA:HB3	1.89	0.54
17:Bp:122:THR:HG23	17:Bp:135:ALA:HB3	1.89	0.54
18:DD:272:ASN:OD1	18:DD:281:ASN:ND2	2.40	0.54
18:DH:272:ASN:OD1	18:DH:281:ASN:ND2	2.40	0.54
19:DR:64:ALA:O	19:DR:68:ARG:HB2	2.06	0.54
18:Df:272:ASN:OD1	18:Df:281:ASN:ND2	2.40	0.54
19:Dh:136:ARG:NH2	19:Dh:166:ASP:OD2	2.40	0.54
7:EZ:187:PRO:HD3	7:EZ:199:ALA:HA	1.88	0.54
7:Et:201:ALA:HB2	7:Et:232:MET:HE1	1.89	0.54
3:4:6:PHE:HB2	2:z:268:MET:HE2	1.89	0.54
5:A:162:VAL:HG23	5:A:165:GLN:HB3	1.88	0.54
5:AW:43:ASP:OD1	5:AW:43:ASP:N	2.28	0.54
5:AX:96:MET:HG3	5:AX:221:GLU:HB2	1.89	0.54
5:AY:16:GLN:HG3	5:AY:241:TYR:HE2	1.71	0.54
6:Al:415:ASN:O	6:Al:419:ASN:ND2	2.36	0.54
6:An:196:ASP:OD1	6:An:200:GLN:N	2.36	0.54
6:Aq:69:GLU:OE1	6:Aq:82:ARG:NH2	2.41	0.54
6:Ar:171:ASP:OD1	6:Ar:171:ASP:N	2.40	0.54
5:W:258:VAL:HG13	5:W:262:LEU:HD22	1.89	0.54
5:Y:154:THR:HG23	5:Y:214:GLU:HB3	1.89	0.54
9:k:135:MET:HE1	11:r:72:ILE:HG12	1.89	0.54
11:u:66:SER:OG	11:u:69:ASP:OD1	2.25	0.54
18:DA:43:PRO:HB2	18:DA:173:LEU:HD13	1.90	0.54
13:B1:72:GLU:CG	16:B4:6:PRO:HA	2.37	0.54
18:DQ:138:SER:OG	18:DQ:148:ARG:NH1	2.35	0.54
18:Db:247:TYR:O	18:Db:250:SER:OG	2.20	0.54
19:Dp:136:ARG:NH2	19:Dp:166:ASP:OD2	2.40	0.54
18:Dv:272:ASN:OD1	18:Dv:281:ASN:ND2	2.40	0.54
7:EY:187:PRO:HD2	7:EY:199:ALA:HB2	1.90	0.54
7:Em:220:SER:HA	7:En:246:LEU:HD12	1.89	0.54
7:Eq:164:GLU:HG2	7:Eq:184:LEU:HD13	1.89	0.54
5:AZ:16:GLN:HG3	5:AZ:241:TYR:HE2	1.71	0.54
6:Ad:343:ASN:HD22	6:G:372:GLN:HB2	1.71	0.54
6:An:433:ILE:HD11	6:As:416:PHE:HZ	1.71	0.54
6:Ap:44:ASN:N	6:Ap:44:ASN:OD1	2.38	0.54
6:At:276:PRO:HA	6:At:282:PRO:HG3	1.90	0.54
6:Au:84:SER:OG	6:Au:391:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:196:ASP:OD1	6:Ax:200:GLN:N	2.35	0.54
5:S:91:ASN:HD22	5:S:93:LEU:H	1.55	0.54
10:m:154:PRO:HG2	10:m:157:GLU:HG3	1.89	0.54
13:A8:297:VAL:HG13	13:A8:302:VAL:HG12	1.88	0.54
13:BM:72:GLU:CG	16:BP:6:PRO:HA	2.37	0.54
13:BW:72:GLU:CG	16:BZ:6:PRO:HA	2.37	0.54
13:Bb:72:GLU:CG	16:Be:6:PRO:HA	2.37	0.54
13:Bb:368:GLN:NE2	18:Do:94:PRO:O	2.35	0.54
17:Bu:122:THR:HG23	17:Bu:135:ALA:HB3	1.89	0.54
13:Bv:297:VAL:HG13	13:Bv:302:VAL:HG12	1.88	0.54
17:Bz:122:THR:HG23	17:Bz:135:ALA:HB3	1.89	0.54
19:DB:64:ALA:O	19:DB:68:ARG:HB2	2.06	0.54
19:DC:152:GLU:OE2	19:DC:184:ARG:NH2	2.38	0.54
19:DJ:136:ARG:NH2	19:DJ:166:ASP:OD2	2.40	0.54
18:DP:112:GLN:HB2	19:DR:161:PRO:HG2	1.88	0.54
18:DQ:220:VAL:HB	18:DQ:260:VAL:HG12	1.88	0.54
18:DX:247:TYR:O	18:DX:250:SER:OG	2.20	0.54
18:Db:272:ASN:OD1	18:Db:281:ASN:ND2	2.40	0.54
19:Dd:136:ARG:NH2	19:Dd:166:ASP:OD2	2.40	0.54
18:Dg:220:VAL:HB	18:Dg:260:VAL:HG12	1.87	0.54
19:Dl:64:ALA:O	19:Dl:68:ARG:HB2	2.06	0.54
18:Dw:43:PRO:HB2	18:Dw:173:LEU:HD13	1.89	0.54
19:Dx:136:ARG:NH2	19:Dx:166:ASP:OD2	2.40	0.54
7:EY:165:ARG:NH2	7:EZ:139:ASP:OD2	2.40	0.54
7:Ed:201:ALA:HB2	7:Ed:232:MET:HE1	1.88	0.54
3:6:84:LEU:N	3:6:85:PRO:HD2	2.21	0.54
7:AD:348:SER:HB2	7:AD:356:MET:HE3	1.89	0.54
5:AZ:161:ARG:NH2	6:At:371:THR:HG22	2.21	0.54
6:Ad:330:GLU:OE2	6:Ad:331:ASN:ND2	2.40	0.54
6:Aj:372:GLN:HB2	6:Au:343:ASN:HD22	1.72	0.54
6:Ak:239:ASP:OD2	6:Ak:250:THR:OG1	2.24	0.54
6:At:39:ALA:HB1	6:Ay:365:GLY:HA2	1.88	0.54
6:K:218:TRP:NE1	6:K:303:GLN:OE1	2.33	0.54
5:Q:43:ASP:OD1	5:W:191:ASN:ND2	2.39	0.54
5:X:196:THR:H	5:X:199:SER:HB3	1.72	0.54
8:c:50:GLN:NE2	7:D3:368:ARG:HH22	2.04	0.54
9:k:3:LEU:HB3	9:k:129:LEU:HD21	1.89	0.54
2:z:104:ILE:O	2:z:110:THR:OG1	2.24	0.54
17:CF:122:THR:HG23	17:CF:135:ALA:HB3	1.89	0.54
18:CG:112:GLN:HB2	19:DB:161:PRO:HG2	1.88	0.54
13:Cs:297:VAL:HG13	13:Cs:302:VAL:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BH:297:VAL:HG13	13:BH:302:VAL:HG12	1.88	0.54
13:Bl:72:GLU:CG	16:Bo:6:PRO:HA	2.37	0.54
18:DH:112:GLN:HB2	19:DJ:161:PRO:HG2	1.88	0.54
18:DI:43:PRO:HB2	18:DI:173:LEU:HD13	1.89	0.54
19:De:152:GLU:OE2	19:De:184:ARG:NH2	2.38	0.54
18:Ds:43:PRO:HB2	18:Ds:173:LEU:HD13	1.89	0.54
19:Dt:136:ARG:NH2	19:Dt:166:ASP:OD2	2.40	0.54
20:D7:5:ARG:HA	7:EG:319:SER:OG	2.07	0.54
7:Ek:214:LYS:NZ	7:Ek:217:GLU:OE2	2.37	0.54
2:3:103:VAL:O	2:3:107:THR:OG1	2.23	0.54
7:AF:352:ASP:O	7:AF:353:VAL:C	2.51	0.54
5:AQ:123:ASN:HD21	5:AQ:127:THR:HB	1.71	0.54
5:AQ:249:SER:OG	5:AQ:253:LYS:NZ	2.40	0.54
5:AU:240:VAL:O	5:AU:244:ASN:ND2	2.38	0.54
5:AV:94:ASP:HB2	5:AV:220:LEU:HD21	1.90	0.54
6:Ah:238:GLY:O	6:Ah:241:GLN:NE2	2.41	0.54
6:Ap:172:LEU:HB3	6:Ap:212:GLN:HB2	1.89	0.54
6:Ar:168:ALA:O	6:Ar:210:LYS:NZ	2.41	0.54
6:Ax:433:ILE:CD1	5:S:228:THR:HG23	2.37	0.54
5:C:161:ARG:NH1	5:R:186:GLU:OE1	2.40	0.54
5:Y:56:SER:HB2	5:Y:62:LEU:HD12	1.89	0.54
9:g:108:MET:HE2	9:i:121:VAL:HG22	1.89	0.54
10:p:91:LEU:HD23	10:p:122:LEU:HD21	1.89	0.54
17:CA:122:THR:HG23	17:CA:135:ALA:HB3	1.89	0.54
18:CG:272:ASN:OD1	18:CG:281:ASN:ND2	2.40	0.54
13:B1:297:VAL:HG13	13:B1:302:VAL:HG12	1.88	0.54
13:BR:297:VAL:HG13	13:BR:302:VAL:HG12	1.88	0.54
13:Bb:362:ASN:ND2	18:Do:89:ILE:HD11	2.12	0.54
13:Bl:362:ASN:ND2	18:Ds:89:ILE:HD11	2.12	0.54
13:Bq:297:VAL:HG13	13:Bq:302:VAL:HG12	1.88	0.54
18:DD:112:GLN:HB2	19:DF:161:PRO:HG2	1.88	0.54
19:DN:136:ARG:NH2	19:DN:166:ASP:OD2	2.40	0.54
18:DT:272:ASN:OD1	18:DT:281:ASN:ND2	2.40	0.54
18:Dj:247:TYR:O	18:Dj:250:SER:OG	2.20	0.54
7:Es:146:MET:N	7:Es:146:MET:SD	2.81	0.54
6:A2:50:ALA:O	6:A2:52:THR:N	2.40	0.54
6:A3:49:ASN:ND2	5:AW:218:SER:CB	2.66	0.54
6:As:40:ASP:H	6:Ax:366:THR:HG23	1.72	0.54
6:D:196:ASP:OD1	6:D:200:GLN:N	2.36	0.54
6:L:196:ASP:OD1	6:L:200:GLN:N	2.36	0.54
6:M:415:ASN:O	6:M:419:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:1:MET:HE2	5:P:5:LEU:HD22	1.88	0.54
9:l:108:MET:HE2	10:q:231:MET:HE2	1.89	0.54
17:CN:122:THR:HG23	17:CN:135:ALA:HB3	1.89	0.54
13:Ci:297:VAL:HG13	13:Ci:302:VAL:HG12	1.88	0.54
13:Cs:72:GLU:CG	16:Cv:6:PRO:HA	2.37	0.54
13:C8:297:VAL:HG13	13:C8:302:VAL:HG12	1.88	0.54
13:Bg:297:VAL:HG13	13:Bg:302:VAL:HG12	1.88	0.54
18:DE:43:PRO:HB2	18:DE:173:LEU:HD13	1.89	0.54
18:DL:100:HIS:O	18:DL:133:ARG:NH2	2.38	0.54
18:DX:272:ASN:OD1	18:DX:281:ASN:ND2	2.40	0.54
18:Dr:272:ASN:OD1	18:Dr:281:ASN:ND2	2.40	0.54
7:Eg:227:SER:OG	7:Eh:201:ALA:O	2.25	0.54
7:Em:238:THR:HG23	7:Em:246:LEU:HD21	1.89	0.54
5:A:43:ASP:OD1	5:A:43:ASP:N	2.41	0.54
5:AR:28:ASN:HD21	5:AX:43:ASP:HB3	1.72	0.54
5:AW:24:ASN:ND2	5:AW:34:TYR:OH	2.40	0.54
5:AZ:239:ARG:NH2	6:Ay:431:GLN:NE2	2.55	0.54
6:Ae:129:GLN:HB2	6:Ae:143:GLN:NE2	2.23	0.54
6:Aq:57:GLY:H	6:Av:21:ASN:HD22	1.54	0.54
6:M:196:ASP:OD1	6:M:200:GLN:N	2.37	0.54
5:Q:176:ILE:HG13	5:Q:212:LEU:HD22	1.90	0.54
5:U:48:ASN:HD21	5:U:51:GLN:HE21	1.54	0.54
8:c:30:ILE:HG23	8:c:96:LEU:HD11	1.89	0.54
2:z:206:PRO:CD	7:EX:192:PHE:HB3	2.38	0.54
18:CG:100:HIS:O	18:CG:133:ARG:NH2	2.38	0.54
17:B5:122:THR:HG23	17:B5:135:ALA:HB3	1.89	0.54
13:Bb:297:VAL:HG13	13:Bb:302:VAL:HG12	1.88	0.54
13:Bq:72:GLU:CG	16:Bt:6:PRO:HA	2.37	0.54
18:DE:138:SER:OG	18:DE:148:ARG:NH1	2.35	0.54
18:DL:112:GLN:HB2	19:DN:161:PRO:HG2	1.88	0.54
19:DZ:136:ARG:NH2	19:DZ:166:ASP:OD2	2.40	0.54
19:Dm:152:GLU:OE2	19:Dm:184:ARG:NH2	2.38	0.54
18:Dn:100:HIS:O	18:Dn:133:ARG:NH2	2.38	0.54
7:EK:324:GLU:OE2	7:EK:326:TYR:OH	2.26	0.54
7:EX:239:VAL:N	7:EX:248:SER:OG	2.41	0.54
7:En:241:ASP:OD1	7:En:244:GLY:N	2.40	0.54
7:E3:324:GLU:OE2	7:E3:326:TYR:OH	2.26	0.54
7:E4:324:GLU:OE2	7:E4:326:TYR:OH	2.26	0.54
5:AX:99:GLY:O	5:AX:116:ARG:NH2	2.40	0.54
6:Ab:416:PHE:CZ	6:K:433:ILE:HD11	2.42	0.54
6:An:109:PHE:CE1	6:An:119:THR:HG22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ap:433:ILE:HD11	6:Au:416:PHE:CZ	2.43	0.54
6:Ar:16:LEU:HD22	6:Ar:412:ALA:HB1	1.89	0.54
6:As:276:PRO:HA	6:As:282:PRO:HG3	1.89	0.54
6:Au:171:ASP:N	6:Au:171:ASP:OD1	2.41	0.54
5:B:36:LYS:HB3	5:B:225:VAL:HG12	1.89	0.54
6:D:422:SER:HA	6:I:409:LEU:HD21	1.90	0.54
6:L:82:ARG:HH11	6:L:396:GLU:HG2	1.73	0.54
5:Q:123:ASN:HD21	5:Q:127:THR:HB	1.72	0.54
17:Bk:180:ARG:HH22	13:Bq:188:ASP:CG	2.13	0.54
18:DL:272:ASN:OD1	18:DL:281:ASN:ND2	2.40	0.54
7:EX:181:ARG:NH1	7:EY:173:GLU:OE2	2.32	0.54
7:Ee:176:GLN:N	7:Ee:176:GLN:OE1	2.41	0.54
7:El:227:SER:OG	7:Em:201:ALA:O	2.26	0.54
7:Ez:324:GLU:OE2	7:Ez:326:TYR:OH	2.26	0.54
2:2:185:LYS:HD2	7:Ed:194:ARG:HH11	1.66	0.54
2:3:239:ILE:HD12	12:x:89:LEU:HD22	1.90	0.54
6:A2:356:ASN:CG	5:P:122:LEU:O	2.50	0.54
6:A3:433:ILE:HD11	5:Q:241:TYR:HE1	1.68	0.54
6:Ac:29:TYR:HE2	6:L:37:GLU:HG2	1.73	0.54
9:k:43:LYS:HG2	9:k:77:LEU:HD21	1.90	0.54
10:p:18:ALA:HB2	10:p:59:THR:HG21	1.90	0.54
13:A8:72:GLU:CG	16:BA:6:PRO:HA	2.37	0.54
13:Cd:72:GLU:CG	16:Cg:6:PRO:HA	2.37	0.54
13:C3:72:GLU:CG	16:C6:6:PRO:HA	2.37	0.54
13:C8:362:ASN:ND2	18:DY:89:ILE:HD11	2.12	0.54
13:B6:127:GLY:HA2	13:B6:170:THR:HG22	1.90	0.54
13:Bv:362:ASN:ND2	18:Dw:89:ILE:HD11	2.12	0.54
19:DF:136:ARG:NH2	19:DF:166:ASP:OD2	2.40	0.54
18:Do:43:PRO:HB2	18:Do:173:LEU:HD13	1.89	0.54
18:Do:138:SER:OG	18:Do:148:ARG:NH1	2.35	0.54
7:E5:324:GLU:OE2	7:E5:326:TYR:OH	2.26	0.54
5:AQ:115:THR:HB	5:AQ:192:LEU:HD12	1.90	0.54
5:AR:99:GLY:O	5:AR:116:ARG:NH2	2.38	0.54
5:AS:240:VAL:O	5:AS:244:ASN:ND2	2.36	0.54
5:AZ:243:MET:HG2	6:Ay:434:LEU:HD11	1.90	0.54
6:Ad:129:GLN:HB2	6:Ad:143:GLN:NE2	2.22	0.54
6:Af:129:GLN:HB2	6:Af:143:GLN:NE2	2.23	0.54
6:Ay:434:LEU:HD12	5:T:231:LEU:CD1	2.38	0.54
5:T:185:LEU:HB3	5:T:193:TYR:HB3	1.90	0.54
5:a:50:ASN:HB2	5:a:66:LEU:H	1.73	0.54
9:g:9:VAL:HG21	9:g:62:THR:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cn:297:VAL:HG13	13:Cn:302:VAL:HG12	1.88	0.54
17:BQ:180:ARG:HH22	13:BW:188:ASP:CG	2.12	0.54
13:Bb:127:GLY:HA2	13:Bb:170:THR:HG22	1.90	0.54
18:DP:100:HIS:O	18:DP:133:ARG:NH2	2.38	0.54
19:DR:136:ARG:NH2	19:DR:166:ASP:OD2	2.40	0.54
18:Dv:112:GLN:HB2	19:Dx:161:PRO:HG2	1.88	0.54
20:D9:9:ARG:O	20:D9:10:HIS:C	2.51	0.54
7:EM:324:GLU:OE2	7:EM:326:TYR:OH	2.26	0.54
7:EX:245:ARG:HG3	7:EX:247:LEU:HD21	1.90	0.54
7:Er:168:ALA:O	7:Er:172:GLU:HG2	2.08	0.54
5:AZ:100:ASP:O	5:AZ:213:GLY:N	2.41	0.53
6:Ar:430:GLN:OE1	6:Ax:414:ARG:NH1	2.41	0.53
6:Av:433:ILE:HD12	5:P:228:THR:OG1	2.09	0.53
5:U:36:LYS:HB3	5:U:225:VAL:HG12	1.89	0.53
9:l:126:LYS:HD3	10:q:248:MET:HG2	1.91	0.53
11:t:66:SER:OG	11:t:69:ASP:OD1	2.26	0.53
16:B0:6:PRO:HA	13:B6:72:GLU:CG	2.37	0.53
13:CO:72:GLU:CG	16:CR:6:PRO:HA	2.37	0.53
13:B1:127:GLY:HA2	13:B1:170:THR:HG22	1.91	0.53
13:Bg:127:GLY:HA2	13:Bg:170:THR:HG22	1.90	0.53
13:Bl:297:VAL:HG13	13:Bl:302:VAL:HG12	1.88	0.53
19:DK:152:GLU:OE2	19:DK:184:ARG:NH2	2.38	0.53
18:DT:168:CYS:SG	18:DT:169:ILE:N	2.81	0.53
18:Dg:104:ILE:HD11	18:Dg:128:GLU:HG3	1.90	0.53
18:Dw:138:SER:OG	18:Dw:148:ARG:NH1	2.35	0.53
7:Dz:324:GLU:OE2	7:Dz:326:TYR:OH	2.26	0.53
7:EU:324:GLU:OE2	7:EU:326:TYR:OH	2.26	0.53
7:Eh:172:GLU:OE2	7:Eh:180:ALA:N	2.42	0.53
7:Ey:324:GLU:OE2	7:Ey:326:TYR:OH	2.26	0.53
1:9:97:ALA:HB2	1:9:113:LEU:HD11	1.90	0.53
6:A3:433:ILE:CD1	5:Q:241:TYR:OH	2.51	0.53
5:AY:148:ILE:C	6:An:46:LEU:CD1	2.81	0.53
6:Ai:196:ASP:OD1	6:Ai:200:GLN:N	2.36	0.53
6:Ap:115:ASN:ND2	6:Ap:147:ILE:O	2.40	0.53
6:Aw:109:PHE:HE1	6:Aw:119:THR:HG22	1.73	0.53
6:Az:40:ASP:OD2	6:Az:42:TYR:CE1	2.61	0.53
5:R:185:LEU:HB3	5:R:193:TYR:HB3	1.89	0.53
5:U:115:THR:HB	5:U:192:LEU:HD23	1.90	0.53
9:h:133:LEU:HA	11:t:71:MET:HE3	1.89	0.53
18:DM:43:PRO:HB2	18:DM:173:LEU:HD13	1.89	0.53
18:DP:168:CYS:SG	18:DP:169:ILE:N	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dc:104:ILE:HD11	18:Dc:128:GLU:HG3	1.90	0.53
18:Dj:272:ASN:OD1	18:Dj:281:ASN:ND2	2.40	0.53
7:EV:324:GLU:OE2	7:EV:326:TYR:OH	2.26	0.53
7:Eh:178:ARG:NH2	7:Eh:206:THR:OG1	2.42	0.53
2:3:198:MET:HE1	2:y:141:LEU:HD22	1.90	0.53
5:AP:9:LYS:HD2	10:q:216:THR:HG21	1.90	0.53
5:AS:115:THR:HB	5:AS:192:LEU:HD12	1.89	0.53
6:Ab:343:ASN:HD22	6:E:372:GLN:HB2	1.73	0.53
6:Aq:50:ALA:O	6:Aq:51:LYS:C	2.51	0.53
6:Aq:129:GLN:HB2	6:Aq:143:GLN:HE21	1.73	0.53
6:Au:101:ASN:OD1	6:Au:377:LYS:NZ	2.41	0.53
6:Av:84:SER:OG	6:Av:391:ASN:ND2	2.40	0.53
6:Az:171:ASP:OD1	6:Az:171:ASP:N	2.40	0.53
5:R:91:ASN:HD22	5:R:93:LEU:H	1.55	0.53
8:e:41:ARG:NH2	8:e:80:TYR:OH	2.38	0.53
13:Cd:42:ARG:NH1	13:Cd:93:GLU:OE2	2.42	0.53
13:BM:42:ARG:NH1	13:BM:93:GLU:OE2	2.42	0.53
13:BR:42:ARG:NH1	13:BR:93:GLU:OE2	2.42	0.53
19:Da:152:GLU:OE2	19:Da:184:ARG:NH2	2.38	0.53
18:Df:247:TYR:O	18:Df:250:SER:OG	2.20	0.53
18:Dk:43:PRO:HB2	18:Dk:173:LEU:HD13	1.89	0.53
19:Dq:33:TYR:O	19:Dq:74:TYR:OH	2.27	0.53
19:Du:33:TYR:O	19:Du:74:TYR:OH	2.27	0.53
19:Dy:33:TYR:O	19:Dy:74:TYR:OH	2.27	0.53
7:EW:324:GLU:OE2	7:EW:326:TYR:OH	2.26	0.53
4:8:54:MET:HE2	11:s:26:GLY:HA3	1.90	0.53
7:AI:339:LEU:HD11	9:h:72:GLU:HG3	1.91	0.53
6:Ad:29:TYR:HE2	6:M:37:GLU:HG2	1.72	0.53
6:Ak:372:GLN:HB2	6:Av:343:ASN:HD22	1.73	0.53
6:Av:184:ASP:N	6:Av:184:ASP:OD1	2.42	0.53
6:L:117:MET:HE3	6:L:125:LEU:HD23	1.90	0.53
5:V:58:GLN:HE22	17:CA:76:LYS:HZ3	1.54	0.53
10:n:157:GLU:HG2	17:BG:76:LYS:HZ3	1.73	0.53
13:Cd:362:ASN:ND2	18:DM:89:ILE:HD11	2.12	0.53
13:C8:42:ARG:NH1	13:C8:93:GLU:OE2	2.42	0.53
13:BH:42:ARG:NH1	13:BH:93:GLU:OE2	2.42	0.53
13:BW:42:ARG:NH1	13:BW:93:GLU:OE2	2.42	0.53
13:BW:127:GLY:HA2	13:BW:170:THR:HG22	1.91	0.53
19:DC:33:TYR:O	19:DC:74:TYR:OH	2.27	0.53
18:DQ:43:PRO:HB2	18:DQ:173:LEU:HD13	1.89	0.53
19:Dl:136:ARG:NH2	19:Dl:166:ASP:OD2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dr:168:CYS:SG	18:Dr:169:ILE:N	2.81	0.53
18:Dw:104:ILE:HD11	18:Dw:128:GLU:HG3	1.90	0.53
7:EI:273:LEU:HD23	7:EI:294:VAL:HG11	1.91	0.53
7:EN:324:GLU:OE2	7:EN:326:TYR:OH	2.26	0.53
7:EZ:207:LEU:N	7:EZ:242:GLN:OE1	2.40	0.53
3:7:4:GLU:CB	7:Ed:152:GLN:NE2	2.71	0.53
5:AW:123:ASN:ND2	5:AW:127:THR:O	2.42	0.53
5:AZ:148:ILE:CG2	6:Az:386:SER:HA	2.36	0.53
6:Ac:6:LEU:HD13	6:Ai:407:VAL:HG11	1.91	0.53
6:An:174:ASP:HB3	6:An:177:GLN:HB2	1.88	0.53
6:Aw:84:SER:OG	6:Aw:391:ASN:ND2	2.42	0.53
6:F:35:ARG:NH2	6:F:37:GLU:OE2	2.38	0.53
5:T:43:ASP:OD1	5:T:43:ASP:N	2.41	0.53
8:d:31:ALA:HA	9:j:118:ASN:HD21	1.73	0.53
11:r:94:ALA:HA	2:z:100:PRO:HG3	1.90	0.53
2:z:197:THR:HG21	7:Eb:194:ARG:HD2	1.90	0.53
13:CB:188:ASP:CG	17:B5:180:ARG:HH22	2.12	0.53
13:CY:42:ARG:NH1	13:CY:93:GLU:OE2	2.42	0.53
13:Cx:297:VAL:HG13	13:Cx:302:VAL:HG12	1.88	0.53
13:BC:42:ARG:NH1	13:BC:93:GLU:OE2	2.42	0.53
13:BH:362:ASN:ND2	18:Dg:89:ILE:HD11	2.12	0.53
13:Bv:127:GLY:HA2	13:Bv:170:THR:HG22	1.91	0.53
18:DX:168:CYS:SG	18:DX:169:ILE:N	2.81	0.53
18:DY:43:PRO:HB2	18:DY:173:LEU:HD13	1.90	0.53
19:Dm:33:TYR:O	19:Dm:74:TYR:OH	2.27	0.53
18:Dn:168:CYS:SG	18:Dn:169:ILE:N	2.81	0.53
7:D1:324:GLU:OE2	7:D1:326:TYR:OH	2.26	0.53
7:ET:273:LEU:HD23	7:ET:294:VAL:HG11	1.91	0.53
7:EU:273:LEU:HD23	7:EU:294:VAL:HG11	1.91	0.53
7:Ec:151:SER:O	7:Ec:153:ARG:N	2.42	0.53
7:Ed:196:ASN:OD1	7:Ed:196:ASN:N	2.41	0.53
7:Eo:227:SER:O	7:Et:200:SER:OG	2.20	0.53
7:Ep:207:LEU:N	7:Ep:242:GLN:OE1	2.42	0.53
6:A2:433:ILE:HD11	5:P:241:TYR:CE1	2.42	0.53
6:As:171:ASP:N	6:As:171:ASP:OD1	2.37	0.53
6:Au:276:PRO:HA	6:Au:282:PRO:HG3	1.89	0.53
13:CB:42:ARG:NH1	13:CB:93:GLU:OE2	2.42	0.53
13:CB:127:GLY:HA2	13:CB:170:THR:HG22	1.90	0.53
13:Ci:42:ARG:NH1	13:Ci:93:GLU:OE2	2.42	0.53
13:C3:42:ARG:NH1	13:C3:93:GLU:OE2	2.42	0.53
13:B6:42:ARG:NH1	13:B6:93:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bb:42:ARG:NH1	13:Bb:93:GLU:OE2	2.42	0.53
19:DO:152:GLU:OE2	19:DO:184:ARG:NH2	2.38	0.53
18:DQ:256:ASP:OD1	18:DQ:256:ASP:N	2.32	0.53
18:DY:104:ILE:HD11	18:DY:128:GLU:HG3	1.90	0.53
18:Ds:104:ILE:HD11	18:Ds:128:GLU:HG3	1.90	0.53
7:D4:273:LEU:HD23	7:D4:294:VAL:HG11	1.91	0.53
7:D5:273:LEU:HD23	7:D5:294:VAL:HG11	1.91	0.53
7:EH:273:LEU:HD23	7:EH:294:VAL:HG11	1.91	0.53
7:EQ:273:LEU:HD23	7:EQ:294:VAL:HG11	1.91	0.53
7:ES:273:LEU:HD23	7:ES:294:VAL:HG11	1.91	0.53
7:Em:173:GLU:HB2	7:En:204:PHE:CZ	2.43	0.53
7:Em:199:ALA:HB3	7:Em:232:MET:HB3	1.91	0.53
7:En:178:ARG:NH1	7:En:207:LEU:O	2.41	0.53
7:Er:204:PHE:HE1	7:Er:206:THR:HG22	1.73	0.53
5:A:74:VAL:HG12	5:AV:66:LEU:HD11	1.91	0.53
6:A1:59:GLN:NE2	5:V:219:MET:CE	2.72	0.53
6:A3:239:ASP:OD2	6:A3:250:THR:OG1	2.25	0.53
7:AJ:335:ILE:HG22	9:g:87:LEU:HD11	1.89	0.53
5:AY:235:ILE:CG2	6:Ax:427:ASN:HD22	2.20	0.53
6:Ab:430:GLN:HE21	6:Am:402:MET:HB2	1.73	0.53
6:Ac:82:ARG:HH11	6:Ac:396:GLU:HG2	1.73	0.53
6:Af:196:ASP:OD1	6:Af:200:GLN:N	2.41	0.53
6:Ai:327:ASP:OD1	6:Ai:327:ASP:N	2.41	0.53
6:Aq:16:LEU:HD22	6:Aq:412:ALA:HB1	1.91	0.53
6:Ar:327:ASP:N	6:Ar:327:ASP:OD1	2.41	0.53
5:B:24:ASN:ND2	5:B:34:TYR:OH	2.41	0.53
6:J:327:ASP:OD1	6:J:327:ASP:N	2.42	0.53
6:M:111:LEU:HD11	6:M:147:ILE:HD12	1.89	0.53
5:P:99:GLY:O	5:P:116:ARG:NH2	2.41	0.53
5:Q:37:SER:HB3	5:Q:77:THR:HG22	1.89	0.53
5:S:239:ARG:O	5:S:243:MET:HG2	2.09	0.53
13:CJ:42:ARG:NH1	13:CJ:93:GLU:OE2	2.42	0.53
13:CT:127:GLY:HA2	13:CT:170:THR:HG22	1.90	0.53
13:Bg:42:ARG:NH1	13:Bg:93:GLU:OE2	2.42	0.53
19:DW:152:GLU:OE2	19:DW:184:ARG:NH2	2.38	0.53
7:D2:324:GLU:OE2	7:D2:326:TYR:OH	2.26	0.53
7:EG:273:LEU:HD23	7:EG:294:VAL:HG11	1.91	0.53
7:Ea:171:ILE:HD12	7:Ea:221:ILE:HD12	1.91	0.53
7:Ea:176:GLN:OE1	7:Ea:176:GLN:N	2.41	0.53
7:Ew:324:GLU:OE2	7:Ew:326:TYR:OH	2.26	0.53
5:A:41:PHE:HB2	10:n:31:THR:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AQ:36:LYS:HB3	5:AQ:225:VAL:HG12	1.89	0.53
5:AT:36:LYS:HB3	5:AT:225:VAL:HG12	1.89	0.53
5:AU:226:ASN:HD22	5:AU:229:GLU:H	1.55	0.53
5:AU:259:ASN:ND2	5:C:242:GLU:OE1	2.39	0.53
5:AY:188:ILE:HD13	5:AY:194:LEU:HG	1.91	0.53
5:AZ:176:ILE:HD11	5:AZ:212:LEU:HB3	1.90	0.53
5:Aa:94:ASP:HB2	5:Aa:220:LEU:HD21	1.90	0.53
6:An:276:PRO:HA	6:An:282:PRO:HG3	1.91	0.53
5:P:96:MET:HG3	5:P:221:GLU:HB2	1.89	0.53
5:P:206:VAL:HG23	5:P:209:LEU:HB2	1.91	0.53
17:CI:180:ARG:HH22	13:A8:188:ASP:CG	2.13	0.53
13:A8:42:ARG:NH1	13:A8:93:GLU:OE2	2.42	0.53
13:CT:42:ARG:NH1	13:CT:93:GLU:OE2	2.42	0.53
13:CY:127:GLY:HA2	13:CY:170:THR:HG22	1.91	0.53
18:DA:104:ILE:HD11	18:DA:128:GLU:HG3	1.90	0.53
19:DG:33:TYR:O	19:DG:74:TYR:OH	2.27	0.53
19:DK:33:TYR:O	19:DK:74:TYR:OH	2.27	0.53
18:DT:247:TYR:O	18:DT:250:SER:OG	2.20	0.53
18:Dc:43:PRO:HB2	18:Dc:173:LEU:HD13	1.90	0.53
19:Dd:34:THR:O	19:Dd:35:GLU:HB2	2.09	0.53
19:Dp:34:THR:O	19:Dp:35:GLU:HB2	2.09	0.53
7:EK:273:LEU:HD23	7:EK:294:VAL:HG11	1.91	0.53
7:EM:273:LEU:HD23	7:EM:294:VAL:HG11	1.91	0.53
7:EO:324:GLU:OE2	7:EO:326:TYR:OH	2.26	0.53
7:EX:174:MET:SD	7:EX:221:ILE:HD11	2.49	0.53
7:Ea:150:VAL:HG12	7:Ea:154:LEU:HD23	1.90	0.53
7:Eg:159:LEU:HD13	7:Eh:157:GLU:HG3	1.91	0.53
1:0:152:VAL:HG13	1:0:172:THR:HB	1.90	0.53
3:5:81:ILE:HG13	2:z:278:LEU:HD21	1.91	0.53
4:8:64:ILE:HG22	4:8:70:ARG:HG2	1.91	0.53
4:8:97:VAL:HG22	4:8:131:MET:HB2	1.90	0.53
6:A1:41:VAL:HG22	6:A1:59:GLN:HB2	1.91	0.53
6:A2:415:ASN:O	6:A2:419:ASN:ND2	2.41	0.53
5:AP:83:HIS:HE1	5:AP:96:MET:HE2	1.74	0.53
5:AS:184:GLY:O	5:AS:196:THR:OG1	2.23	0.53
6:Ae:37:GLU:HG2	6:Aj:29:TYR:HE2	1.74	0.53
6:Av:174:ASP:HB3	6:Av:177:GLN:HB2	1.89	0.53
6:Az:183:PRO:HA	6:Az:186:TYR:CZ	2.44	0.53
6:F:82:ARG:HH11	6:F:396:GLU:HG2	1.74	0.53
6:J:415:ASN:O	6:J:419:ASN:ND2	2.41	0.53
6:L:218:TRP:NE1	6:L:303:GLN:OE1	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:208:GLY:N	5:Q:213:GLY:O	2.42	0.53
8:c:85:GLN:HE21	9:i:19:VAL:HG22	1.73	0.53
8:f:37:GLY:N	8:f:90:ASP:O	2.42	0.53
13:Bl:42:ARG:NH1	13:Bl:93:GLU:OE2	2.42	0.53
18:DL:168:CYS:SG	18:DL:169:ILE:N	2.81	0.53
18:DY:256:ASP:OD1	18:DY:256:ASP:N	2.32	0.53
19:Di:33:TYR:O	19:Di:74:TYR:OH	2.27	0.53
18:Dj:168:CYS:SG	18:Dj:169:ILE:N	2.81	0.53
16:D0:8:GLU:O	16:D0:9:THR:C	2.52	0.53
7:EJ:273:LEU:HD23	7:EJ:294:VAL:HG11	1.91	0.53
7:EO:273:LEU:HD23	7:EO:294:VAL:HG11	1.91	0.53
7:ER:273:LEU:HD23	7:ER:294:VAL:HG11	1.91	0.53
7:EW:273:LEU:HD23	7:EW:294:VAL:HG11	1.91	0.53
7:Ee:168:ALA:O	7:Ee:172:GLU:HG2	2.09	0.53
7:Eu:324:GLU:OE2	7:Eu:326:TYR:OH	2.26	0.53
6:A1:371:THR:HG22	5:V:161:ARG:HE	1.73	0.53
5:AZ:240:VAL:O	5:AZ:244:ASN:ND2	2.38	0.53
6:Ab:131:ASP:OD1	6:Ab:131:ASP:N	2.40	0.53
6:Ab:409:LEU:HD21	6:K:422:SER:HA	1.90	0.53
6:Ag:93:LYS:NZ	6:Ag:123:GLU:OE2	2.36	0.53
6:As:168:ALA:O	6:As:210:LYS:NZ	2.42	0.53
6:Ax:183:PRO:HA	6:Ax:186:TYR:CZ	2.44	0.53
6:D:427:ASN:OD1	6:J:414:ARG:NH1	2.42	0.53
5:Y:19:ILE:HG23	5:Y:234:MET:HE1	1.90	0.53
8:b:128:ILE:HG13	8:b:129:LYS:HG3	1.91	0.53
10:o:76:ARG:NH1	10:o:79:ASP:OD1	2.39	0.53
13:A8:127:GLY:HA2	13:A8:170:THR:HG22	1.90	0.53
13:Cn:42:ARG:NH1	13:Cn:93:GLU:OE2	2.42	0.53
18:DA:100:HIS:O	18:DA:133:ARG:NH2	2.38	0.53
13:B1:42:ARG:NH1	13:B1:93:GLU:OE2	2.42	0.53
13:BC:127:GLY:HA2	13:BC:170:THR:HG22	1.91	0.53
13:Bl:127:GLY:HA2	13:Bl:170:THR:HG22	1.91	0.53
19:DK:75:GLU:OE1	19:DK:105:GLN:NE2	2.42	0.53
18:DU:43:PRO:HB2	18:DU:173:LEU:HD13	1.89	0.53
19:De:33:TYR:O	19:De:74:TYR:OH	2.27	0.53
19:De:75:GLU:OE1	19:De:105:GLN:NE2	2.42	0.53
18:Dg:43:PRO:HB2	18:Dg:173:LEU:HD13	1.90	0.53
18:Dk:104:ILE:HD11	18:Dk:128:GLU:HG3	1.90	0.53
7:Eh:174:MET:HB2	7:Eh:177:VAL:HB	1.91	0.53
5:A:56:SER:OG	5:A:57:SER:N	2.42	0.52
6:A1:183:PRO:HA	6:A1:186:TYR:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AT:166:GLN:O	5:AT:167:ASP:HB2	2.08	0.52
6:Ad:402:MET:HB2	6:G:430:GLN:HE21	1.74	0.52
6:Af:84:SER:OG	6:Af:391:ASN:ND2	2.42	0.52
6:Aj:23:ILE:HG23	6:Aj:402:MET:HE1	1.91	0.52
6:Ak:105:ARG:NH1	6:Ak:396:GLU:OE2	2.35	0.52
6:Ak:130:VAL:HG22	6:Ak:347:GLY:HA2	1.89	0.52
6:At:171:ASP:OD1	6:At:171:ASP:N	2.43	0.52
6:Au:46:LEU:HD11	5:U:150:ILE:CD1	2.39	0.52
8:e:36:PRO:HB3	8:e:90:ASP:HB2	1.91	0.52
10:n:70:SER:O	10:n:206:GLY:N	2.30	0.52
17:CS:180:ARG:HH22	13:CY:188:ASP:CG	2.13	0.52
17:Cc:180:ARG:HH22	13:Ci:188:ASP:CG	2.13	0.52
13:Cd:127:GLY:HA2	13:Cd:170:THR:HG22	1.91	0.52
13:Cx:42:ARG:NH1	13:Cx:93:GLU:OE2	2.42	0.52
13:BR:127:GLY:HA2	13:BR:170:THR:HG22	1.91	0.52
18:DD:168:CYS:SG	18:DD:169:ILE:N	2.81	0.52
19:DO:33:TYR:O	19:DO:74:TYR:OH	2.27	0.52
19:DS:152:GLU:OE2	19:DS:184:ARG:NH2	2.38	0.52
19:DV:34:THR:O	19:DV:35:GLU:HB2	2.09	0.52
19:Dh:34:THR:O	19:Dh:35:GLU:HB2	2.09	0.52
18:Dv:168:CYS:SG	18:Dv:169:ILE:N	2.82	0.52
7:EP:273:LEU:HD23	7:EP:294:VAL:HG11	1.91	0.52
7:EV:273:LEU:HD23	7:EV:294:VAL:HG11	1.91	0.52
7:EX:241:ASP:OD1	7:EX:244:GLY:N	2.42	0.52
7:Ee:139:ASP:HB3	7:Ef:161:LEU:HD21	1.91	0.52
7:Es:178:ARG:NH1	7:Es:207:LEU:O	2.41	0.52
7:Ev:324:GLU:OE2	7:Ev:326:TYR:OH	2.26	0.52
1:9:67:LEU:HD12	1:9:87:ILE:HG12	1.91	0.52
6:A3:414:ARG:NH1	6:Aw:427:ASN:OD1	2.42	0.52
7:AM:340:SER:HA	7:AM:349:ILE:HD11	1.90	0.52
5:AU:176:ILE:HG13	5:AU:212:LEU:HD22	1.90	0.52
5:AV:28:ASN:ND2	5:Z:43:ASP:HB3	2.24	0.52
5:AV:255:MET:HE3	5:B:239:ARG:HG3	1.91	0.52
5:AW:240:VAL:O	5:AW:244:ASN:ND2	2.36	0.52
5:AX:55:GLN:HG3	5:AX:59:ASN:HA	1.90	0.52
5:Aa:43:ASP:OD1	5:Aa:43:ASP:N	2.38	0.52
6:Ad:414:ARG:NH1	6:L:427:ASN:OD1	2.42	0.52
6:Af:130:VAL:HG12	6:Af:137:VAL:HA	1.90	0.52
6:F:174:ASP:HB3	6:F:177:GLN:HB2	1.91	0.52
6:F:430:GLN:HG2	6:L:414:ARG:HD2	1.92	0.52
5:S:61:GLU:HG3	5:X:198:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B7:42:ARG:NH1	13:B7:93:GLU:OE2	2.42	0.52
13:CJ:127:GLY:HA2	13:CJ:170:THR:HG22	1.90	0.52
13:BH:127:GLY:HA2	13:BH:170:THR:HG22	1.91	0.52
13:Bq:42:ARG:NH1	13:Bq:93:GLU:OE2	2.42	0.52
19:DR:34:THR:O	19:DR:35:GLU:HB2	2.09	0.52
18:DT:100:HIS:O	18:DT:133:ARG:NH2	2.38	0.52
19:Da:33:TYR:O	19:Da:74:TYR:OH	2.27	0.52
7:D2:273:LEU:HD23	7:D2:294:VAL:HG11	1.91	0.52
7:D3:324:GLU:OE2	7:D3:326:TYR:OH	2.26	0.52
7:EL:273:LEU:HD23	7:EL:294:VAL:HG11	1.91	0.52
7:EP:324:GLU:OE2	7:EP:326:TYR:OH	2.26	0.52
7:Eq:184:LEU:HD21	7:Eq:229:VAL:HG21	1.91	0.52
7:Eq:207:LEU:N	7:Eq:242:GLN:OE1	2.43	0.52
6:A1:358:GLN:HG2	6:Ap:47:PHE:HE2	1.73	0.52
5:AS:185:LEU:HB3	5:AS:193:TYR:HB3	1.92	0.52
5:AY:238:GLN:HG3	6:Ay:429:LEU:HD21	1.92	0.52
6:Am:183:PRO:HA	6:Am:186:TYR:CZ	2.45	0.52
6:Ax:105:ARG:NH1	6:Ax:396:GLU:OE1	2.43	0.52
6:Ay:69:GLU:OE1	6:Ay:82:ARG:NH2	2.43	0.52
5:Q:159:SER:HB3	5:Q:168:ASN:HB3	1.90	0.52
5:X:104:GLN:NE2	5:X:204:GLU:OE2	2.39	0.52
13:CO:127:GLY:HA2	13:CO:170:THR:HG22	1.91	0.52
7:D3:273:LEU:HD23	7:D3:294:VAL:HG11	1.91	0.52
16:D0:3:MET:HA	7:Ev:374:ASN:HD21	1.74	0.52
7:Ep:241:ASP:OD1	7:Ep:245:ARG:N	2.43	0.52
1:9:179:LEU:HB2	1:9:199:PRO:HA	1.91	0.52
5:AQ:185:LEU:HB3	5:AQ:193:TYR:HB3	1.92	0.52
5:AY:18:ASN:HD22	5:AY:39:ALA:HB3	1.73	0.52
6:Ad:84:SER:OG	6:Ad:391:ASN:ND2	2.43	0.52
6:Aj:276:PRO:HA	6:Aj:282:PRO:HG3	1.92	0.52
6:Ak:21:ASN:O	6:Ak:25:ASN:ND2	2.42	0.52
6:Ap:433:ILE:HD11	6:Au:416:PHE:HZ	1.72	0.52
6:J:69:GLU:OE1	6:J:82:ARG:NH2	2.43	0.52
5:U:24:ASN:ND2	5:U:34:TYR:OH	2.43	0.52
10:m:18:ALA:HB2	10:m:59:THR:HG21	1.90	0.52
10:m:65:ASN:O	10:m:208:ASN:ND2	2.36	0.52
13:Ci:127:GLY:HA2	13:Ci:170:THR:HG22	1.90	0.52
13:Cx:334:ARG:HE	13:C3:295:VAL:HG11	1.75	0.52
13:BC:334:ARG:HE	13:BH:295:VAL:HG11	1.75	0.52
19:DC:75:GLU:OE1	19:DC:105:GLN:NE2	2.42	0.52
18:DH:168:CYS:SG	18:DH:169:ILE:N	2.81	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Df:168:CYS:SG	18:Df:169:ILE:N	2.82	0.52
18:Do:104:ILE:HD11	18:Do:128:GLU:HG3	1.90	0.52
7:Ec:179:LYS:HB3	7:Ec:206:THR:OG1	2.09	0.52
7:Em:184:LEU:HD21	7:Em:229:VAL:HG21	1.91	0.52
7:Ev:273:LEU:HD23	7:Ev:294:VAL:HG11	1.91	0.52
2:3:125:LEU:HB3	2:3:128:THR:HB	1.91	0.52
5:AT:176:ILE:HG13	5:AT:212:LEU:HD22	1.90	0.52
5:AY:16:GLN:NE2	5:T:228:THR:OG1	2.43	0.52
5:Aa:92:ALA:CB	6:Ap:47:PHE:O	2.57	0.52
6:Ac:409:LEU:HD21	6:L:422:SER:HA	1.90	0.52
6:Ao:174:ASP:HB3	6:Ao:177:GLN:HB2	1.90	0.52
6:Ay:59:GLN:CD	5:T:216:ARG:HH21	2.16	0.52
6:J:39:ALA:HB1	6:O:365:GLY:HA2	1.92	0.52
6:M:69:GLU:OE1	6:M:82:ARG:NH2	2.43	0.52
6:M:131:ASP:OD1	6:M:131:ASP:N	2.41	0.52
5:P:91:ASN:HD22	5:P:93:LEU:H	1.55	0.52
5:R:161:ARG:HH11	5:R:168:ASN:ND2	2.06	0.52
5:U:43:ASP:OD1	5:Z:191:ASN:ND2	2.42	0.52
5:V:58:GLN:HE21	17:CA:76:LYS:NZ	2.03	0.52
5:W:91:ASN:HD22	5:W:93:LEU:H	1.56	0.52
10:n:82:ILE:HD11	10:n:88:ILE:HG13	1.92	0.52
13:Cn:334:ARG:HE	13:Cs:295:VAL:HG11	1.75	0.52
13:BM:334:ARG:HE	13:BR:295:VAL:HG11	1.75	0.52
13:Bq:127:GLY:HA2	13:Bq:170:THR:HG22	1.91	0.52
19:DF:103:ALA:HB1	19:DF:111:LEU:HD23	1.92	0.52
19:DJ:103:ALA:HB1	19:DJ:111:LEU:HD23	1.92	0.52
19:DN:103:ALA:HB1	19:DN:111:LEU:HD23	1.92	0.52
19:DR:103:ALA:HB1	19:DR:111:LEU:HD23	1.92	0.52
19:DS:33:TYR:O	19:DS:74:TYR:OH	2.27	0.52
18:Db:168:CYS:SG	18:Db:169:ILE:N	2.81	0.52
19:Dt:34:THR:O	19:Dt:35:GLU:HB2	2.09	0.52
7:EN:273:LEU:HD23	7:EN:294:VAL:HG11	1.91	0.52
7:EX:147:GLY:O	7:EX:148:PHE:C	2.51	0.52
7:EX:227:SER:O	7:Eb:200:SER:OG	2.21	0.52
2:1:92:LEU:HD13	22:t:202:PGT:C20	2.40	0.52
2:3:85:VAL:HG13	8:b:3:ILE:HA	1.90	0.52
3:5:81:ILE:HG21	2:z:278:LEU:HD11	1.91	0.52
3:7:89:TYR:CE2	7:Ed:190:SER:HB2	2.43	0.52
6:A2:3:TYR:CD1	5:W:87:GLN:HG2	2.44	0.52
6:Ad:196:ASP:OD1	6:Ad:200:GLN:N	2.39	0.52
6:Ag:109:PHE:HE1	6:Ag:119:THR:HG22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:129:GLN:HB2	6:Ag:143:GLN:NE2	2.25	0.52
6:Al:82:ARG:HH11	6:Al:396:GLU:HG2	1.73	0.52
5:P:22:ILE:HG21	5:P:234:MET:HB2	1.92	0.52
5:W:43:ASP:OD1	5:W:43:ASP:N	2.36	0.52
5:W:115:THR:HB	5:W:192:LEU:HD23	1.92	0.52
9:l:133:LEU:HD23	11:v:71:MET:HE3	1.91	0.52
10:q:77:ASP:N	10:q:77:ASP:OD1	2.43	0.52
13:B7:127:GLY:HA2	13:B7:170:THR:HG22	1.90	0.52
18:CG:168:CYS:SG	18:CG:169:ILE:N	2.81	0.52
13:CO:42:ARG:NH1	13:CO:93:GLU:OE2	2.42	0.52
18:DA:256:ASP:OD1	18:DA:256:ASP:N	2.32	0.52
13:Bv:42:ARG:NH1	13:Bv:93:GLU:OE2	2.42	0.52
18:DE:104:ILE:HD11	18:DE:128:GLU:HG3	1.90	0.52
19:DW:33:TYR:O	19:DW:74:TYR:OH	2.27	0.52
19:Dm:75:GLU:OE1	19:Dm:105:GLN:NE2	2.42	0.52
19:Dy:75:GLU:OE1	19:Dy:105:GLN:NE2	2.42	0.52
7:D4:324:GLU:OE2	7:D4:326:TYR:OH	2.26	0.52
6:A3:42:TYR:CE2	5:Q:187:PRO:CB	2.93	0.52
5:AU:16:GLN:HE22	5:C:226:ASN:HD21	1.58	0.52
5:AZ:119:GLN:NE2	6:Az:35:ARG:HH21	1.96	0.52
6:An:171:ASP:OD1	6:An:171:ASP:N	2.43	0.52
6:Ar:276:PRO:HA	6:Ar:282:PRO:HG3	1.91	0.52
6:Aw:101:ASN:OD1	6:Aw:377:LYS:NZ	2.43	0.52
5:C:9:LYS:NZ	5:C:13:ASP:OD2	2.32	0.52
6:O:196:ASP:OD1	6:O:200:GLN:N	2.36	0.52
5:P:251:VAL:HA	5:P:254:MET:HE2	1.92	0.52
5:X:43:ASP:OD1	5:X:43:ASP:N	2.42	0.52
13:CJ:334:ARG:HE	13:A8:295:VAL:HG11	1.75	0.52
13:C8:127:GLY:HA2	13:C8:170:THR:HG22	1.91	0.52
18:DI:104:ILE:HD11	18:DI:128:GLU:HG3	1.90	0.52
18:DM:104:ILE:HD11	18:DM:128:GLU:HG3	1.90	0.52
18:DU:104:ILE:HD11	18:DU:128:GLU:HG3	1.90	0.52
19:DZ:34:THR:O	19:DZ:35:GLU:HB2	2.09	0.52
18:Dg:138:SER:OG	18:Dg:148:ARG:NH1	2.35	0.52
20:D6:11:ILE:O	20:D6:12:PRO:C	2.53	0.52
7:EQ:324:GLU:OE2	7:EQ:326:TYR:OH	2.26	0.52
7:Ep:176:GLN:N	7:Ep:176:GLN:OE1	2.42	0.52
7:Eu:273:LEU:HD23	7:Eu:294:VAL:HG11	1.91	0.52
7:E2:273:LEU:HD23	7:E2:294:VAL:HG11	1.91	0.52
1:0:73:VAL:HG12	1:0:75:GLY:H	1.74	0.52
6:A3:407:VAL:HG11	6:Aw:6:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AS:99:GLY:O	5:AS:116:ARG:NH2	2.35	0.52
5:AW:234:MET:HE3	5:X:247:VAL:HG22	1.92	0.52
6:Aj:40:ASP:H	6:Ao:366:THR:HG23	1.75	0.52
6:Av:253:PHE:HD2	6:Av:259:LEU:HA	1.74	0.52
6:Ay:59:GLN:NE2	5:T:216:ARG:NH2	2.57	0.52
6:H:39:ALA:HB1	6:M:365:GLY:HA2	1.92	0.52
5:U:83:HIS:HE1	5:U:99:GLY:H	1.58	0.52
10:o:18:ALA:HB2	10:o:59:THR:HG21	1.91	0.52
13:B7:295:VAL:HG11	13:CB:334:ARG:HE	1.75	0.52
13:Cd:334:ARG:HE	13:Ci:295:VAL:HG11	1.75	0.52
13:BM:127:GLY:HA2	13:BM:170:THR:HG22	1.90	0.52
18:DD:100:HIS:O	18:DD:133:ARG:NH2	2.38	0.52
18:DQ:104:ILE:HD11	18:DQ:128:GLU:HG3	1.90	0.52
18:Dr:100:HIS:O	18:Dr:133:ARG:NH2	2.38	0.52
7:Dz:273:LEU:HD23	7:Dz:294:VAL:HG11	1.91	0.52
7:Ei:241:ASP:OD1	7:Ei:245:ARG:N	2.43	0.52
7:El:174:MET:SD	7:El:221:ILE:HD11	2.49	0.52
7:Ep:229:VAL:HB	7:Ep:232:MET:SD	2.49	0.52
7:E1:273:LEU:HD23	7:E1:294:VAL:HG11	1.91	0.52
3:6:15:TRP:CZ2	7:Eg:148:PHE:CZ	2.96	0.52
4:8:150:LEU:HD13	4:8:252:ILE:HG21	1.92	0.52
5:A:93:LEU:HD13	5:A:121:THR:HA	1.92	0.52
5:AZ:228:THR:OG1	6:At:433:ILE:HD12	2.10	0.52
6:Af:170:GLY:O	6:Af:210:LYS:NZ	2.42	0.52
6:Ax:276:PRO:HA	6:Ax:282:PRO:HG3	1.92	0.52
5:C:41:PHE:HB2	10:m:31:THR:HA	1.92	0.52
5:C:181:ASN:ND2	10:m:107:VAL:O	2.42	0.52
6:G:69:GLU:OE1	6:G:82:ARG:NH2	2.43	0.52
6:H:130:VAL:HG12	6:H:137:VAL:HA	1.91	0.52
5:Y:24:ASN:ND2	5:Y:34:TYR:OH	2.43	0.52
11:v:87:ILE:HD11	22:v:202:PGT:H181	1.92	0.52
13:Cn:127:GLY:HA2	13:Cn:170:THR:HG22	1.90	0.52
13:Cs:42:ARG:NH1	13:Cs:93:GLU:OE2	2.42	0.52
13:BH:72:GLU:HB2	16:BK:6:PRO:HA	1.92	0.52
13:BW:334:ARG:HE	13:Bb:295:VAL:HG11	1.75	0.52
13:Bg:334:ARG:HE	13:Bl:295:VAL:HG11	1.75	0.52
19:DB:34:THR:O	19:DB:35:GLU:HB2	2.09	0.52
19:DG:75:GLU:OE1	19:DG:105:GLN:NE2	2.42	0.52
19:DJ:34:THR:O	19:DJ:35:GLU:HB2	2.09	0.52
19:DO:75:GLU:OE1	19:DO:105:GLN:NE2	2.42	0.52
19:DS:75:GLU:OE1	19:DS:105:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:D8:3:LEU:H	7:EM:319:SER:CB	2.22	0.52
5:A:95:MET:HE2	5:A:152:VAL:HG21	1.92	0.52
6:A2:35:ARG:NH2	5:P:119:GLN:NE2	2.58	0.52
5:AQ:240:VAL:HA	5:AQ:243:MET:HE2	1.92	0.52
5:AR:115:THR:HB	5:AR:192:LEU:HD12	1.92	0.52
5:AS:249:SER:OG	5:AS:253:LYS:NZ	2.43	0.52
5:AU:8:SER:HG	5:B:23:SER:HG	1.56	0.52
5:AU:93:LEU:HD13	5:AU:121:THR:HA	1.91	0.52
5:Aa:235:ILE:HG21	6:Az:427:ASN:HD22	1.69	0.52
6:Aj:231:LYS:HB3	6:Aj:281:THR:HB	1.91	0.52
6:Aq:203:LYS:HB3	6:Aq:225:THR:HB	1.92	0.52
6:Au:137:VAL:HG11	6:Au:140:TYR:CE2	2.45	0.52
10:o:82:ILE:HD11	10:o:88:ILE:HG13	1.92	0.52
2:z:187:THR:O	7:EY:192:PHE:CB	2.57	0.52
13:B7:334:ARG:HE	13:CO:295:VAL:HG11	1.75	0.52
13:CB:295:VAL:HG11	13:B6:334:ARG:HE	1.75	0.52
13:CJ:295:VAL:HG11	13:C8:334:ARG:HE	1.75	0.52
17:C2:180:ARG:HH22	13:C8:188:ASP:CG	2.13	0.52
13:B1:72:GLU:HB2	16:B4:6:PRO:HA	1.92	0.52
13:B1:295:VAL:HG11	13:Bv:334:ARG:HE	1.75	0.52
13:BM:72:GLU:HB2	16:BP:6:PRO:HA	1.92	0.52
13:Bl:334:ARG:HE	13:Bq:295:VAL:HG11	1.75	0.52
13:Bq:334:ARG:HE	13:Bv:295:VAL:HG11	1.75	0.52
19:DV:103:ALA:HB1	19:DV:111:LEU:HD23	1.92	0.52
19:Dl:34:THR:O	19:Dl:35:GLU:HB2	2.09	0.52
18:Dn:185:LEU:HB3	18:Dn:198:SER:HB3	1.92	0.52
18:Dr:185:LEU:HB3	18:Dr:198:SER:HB3	1.92	0.52
7:D1:273:LEU:HD23	7:D1:294:VAL:HG11	1.91	0.52
7:EX:246:LEU:H	7:EY:216:GLN:NE2	2.08	0.52
7:Ea:229:VAL:HB	7:Ea:232:MET:SD	2.50	0.52
7:Ef:168:ALA:O	7:Ef:172:GLU:HG2	2.10	0.52
7:Et:184:LEU:HD21	7:Et:229:VAL:HG21	1.93	0.52
7:Ew:273:LEU:HD23	7:Ew:294:VAL:HG11	1.91	0.52
2:1:198:MET:HE2	4:8:53:VAL:HG11	1.92	0.51
5:Aa:149:SER:HA	6:Ap:46:LEU:HD12	1.92	0.51
6:O:16:LEU:HD22	6:O:412:ALA:HB1	1.91	0.51
5:Q:43:ASP:OD1	5:Q:43:ASP:N	2.40	0.51
5:S:83:HIS:CE1	5:S:99:GLY:H	2.28	0.51
5:X:123:ASN:HD21	5:X:127:THR:HB	1.75	0.51
5:a:161:ARG:HH11	5:a:168:ASN:HD21	1.58	0.51
9:g:84:ASP:OD1	9:i:73:SER:OG	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:v:202:PGT:H262	2:y:96:LEU:HD23	1.91	0.51
17:A7:180:ARG:HH22	13:BC:188:ASP:CG	2.13	0.51
13:A8:362:ASN:ND2	18:Dc:89:ILE:HD11	2.12	0.51
13:CO:334:ARG:HE	13:CT:295:VAL:HG11	1.75	0.51
13:CT:334:ARG:HE	13:CY:295:VAL:HG11	1.75	0.51
14:Ct:119:LYS:NZ	14:C4:203:GLY:O	2.44	0.51
13:Cx:362:ASN:HD22	18:DU:89:ILE:CD1	2.15	0.51
14:Cy:119:LYS:NZ	14:C9:203:GLY:O	2.44	0.51
13:B1:334:ARG:HE	13:B6:295:VAL:HG11	1.75	0.51
19:DB:103:ALA:HB1	19:DB:111:LEU:HD23	1.92	0.51
19:Dx:34:THR:O	19:Dx:35:GLU:HB2	2.09	0.51
7:Ed:248:SER:O	7:Ed:249:SER:HB2	2.10	0.51
7:Ek:178:ARG:N	7:Ek:206:THR:O	2.39	0.51
7:E3:273:LEU:HD23	7:E3:294:VAL:HG11	1.91	0.51
2:2:112:ILE:HD13	2:2:141:LEU:HB3	1.92	0.51
2:2:248:LEU:HD11	2:2:261:VAL:HG11	1.92	0.51
6:A2:413:GLN:HE21	6:A2:417:GLN:NE2	2.08	0.51
5:AQ:181:ASN:ND2	10:q:107:VAL:O	2.44	0.51
5:AV:87:GLN:NE2	5:Z:38:ARG:HH22	2.08	0.51
6:Af:402:MET:HB2	6:I:430:GLN:HE21	1.75	0.51
6:Ag:343:ASN:HD22	6:J:372:GLN:HB2	1.76	0.51
6:Ai:39:ALA:HB1	6:An:365:GLY:HA2	1.92	0.51
6:At:52:THR:HG23	6:Ay:60:ALA:CB	2.39	0.51
6:Az:42:TYR:HE2	6:Az:55:GLY:HA2	1.75	0.51
6:L:151:PHE:CE2	6:L:344:VAL:HG21	2.45	0.51
10:n:86:GLY:O	10:n:101:ARG:NH1	2.44	0.51
16:B0:6:PRO:HA	13:B6:72:GLU:HB2	1.92	0.51
17:CA:257:ARG:CZ	17:CF:161:VAL:HG11	2.41	0.51
14:A4:119:LYS:NZ	14:BD:203:GLY:O	2.44	0.51
14:A4:203:GLY:O	14:C4:119:LYS:NZ	2.44	0.51
13:A8:72:GLU:HB2	16:BA:6:PRO:HA	1.92	0.51
14:A9:119:LYS:NZ	14:BI:203:GLY:O	2.44	0.51
13:Cs:127:GLY:HA2	13:Cs:170:THR:HG22	1.90	0.51
13:C3:127:GLY:HA2	13:C3:170:THR:HG22	1.91	0.51
17:BB:257:ARG:CZ	17:BG:161:VAL:HG11	2.41	0.51
13:BC:72:GLU:HB2	16:BF:6:PRO:HA	1.92	0.51
14:BI:119:LYS:NZ	14:BS:203:GLY:O	2.44	0.51
13:Bb:334:ARG:HE	13:Bg:295:VAL:HG11	1.75	0.51
13:Bv:72:GLU:HB2	16:By:6:PRO:HA	1.92	0.51
18:DU:138:SER:OG	18:DU:148:ARG:NH1	2.35	0.51
7:D5:324:GLU:OE2	7:D5:326:TYR:OH	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ER:324:GLU:OE2	7:ER:326:TYR:OH	2.26	0.51
7:Eb:139:ASP:OD1	7:Eb:139:ASP:N	2.43	0.51
7:Em:174:MET:HE3	7:En:204:PHE:HE1	1.75	0.51
7:AF:347:ALA:O	7:AF:353:VAL:HG13	2.10	0.51
5:AU:28:ASN:ND2	5:R:43:ASP:HB3	2.25	0.51
5:AZ:19:ILE:HD13	6:Az:429:LEU:HD11	1.92	0.51
5:Aa:240:VAL:O	5:Aa:244:ASN:ND2	2.43	0.51
6:Ah:168:ALA:O	6:Ah:210:LYS:NZ	2.43	0.51
6:Ai:402:MET:HB2	6:L:430:GLN:HE21	1.75	0.51
6:Aj:101:ASN:OD1	6:Aj:377:LYS:NZ	2.44	0.51
6:Al:276:PRO:HA	6:Al:282:PRO:HG3	1.92	0.51
6:An:101:ASN:OD1	6:An:377:LYS:NZ	2.44	0.51
6:Aw:51:LYS:O	6:Aw:52:THR:OG1	2.28	0.51
5:C:94:ASP:HB2	5:C:220:LEU:HD21	1.90	0.51
5:R:56:SER:HB2	5:R:62:LEU:HD12	1.93	0.51
5:a:226:ASN:HB3	5:a:229:GLU:HB2	1.93	0.51
11:v:87:ILE:HD11	22:v:202:PGT:C18	2.39	0.51
17:CA:161:VAL:HG11	17:B5:257:ARG:CZ	2.41	0.51
13:CY:334:ARG:HE	13:Cd:295:VAL:HG11	1.75	0.51
14:Cj:119:LYS:NZ	14:Ct:203:GLY:O	2.44	0.51
13:BR:72:GLU:HB2	16:BU:6:PRO:HA	1.92	0.51
13:BR:334:ARG:HE	13:BW:295:VAL:HG11	1.75	0.51
17:BV:257:ARG:CZ	17:Ba:161:VAL:HG11	2.41	0.51
17:Ba:257:ARG:CZ	17:Bf:161:VAL:HG11	2.41	0.51
14:Bc:119:LYS:NZ	14:Bm:203:GLY:O	2.44	0.51
17:Bf:257:ARG:CZ	17:Bk:161:VAL:HG11	2.41	0.51
19:DW:75:GLU:OE1	19:DW:105:GLN:NE2	2.42	0.51
18:Dj:185:LEU:HB3	18:Dj:198:SER:HB3	1.93	0.51
18:Do:100:HIS:O	18:Do:133:ARG:NH2	2.38	0.51
7:El:224:MET:HG3	7:Em:202:SER:HB3	1.91	0.51
7:Eo:230:PRO:HB2	7:Et:197:GLN:HE21	1.74	0.51
7:Ex:273:LEU:HD23	7:Ex:294:VAL:HG11	1.91	0.51
6:A3:62:GLN:CD	5:Q:131:SER:O	2.53	0.51
6:A3:322:PHE:HB3	6:Ax:386:SER:HB3	1.92	0.51
5:AP:152:VAL:HG22	5:AP:158:VAL:HG22	1.91	0.51
6:Aq:129:GLN:HB2	6:Aq:143:GLN:NE2	2.25	0.51
6:Ar:46:LEU:HD11	5:Q:150:ILE:CD1	2.41	0.51
6:E:35:ARG:NH2	6:E:37:GLU:OE2	2.38	0.51
6:E:196:ASP:OD1	6:E:200:GLN:N	2.43	0.51
8:f:3:ILE:HG21	22:v:202:PGT:H162	1.92	0.51
13:CB:72:GLU:HB2	16:CE:6:PRO:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CX:257:ARG:CZ	17:Cc:161:VAL:HG11	2.41	0.51
13:C3:334:ARG:HE	13:C8:295:VAL:HG11	1.75	0.51
14:BN:119:LYS:NZ	14:BX:203:GLY:O	2.44	0.51
19:Da:75:GLU:OE1	19:Da:105:GLN:NE2	2.42	0.51
19:Dp:103:ALA:HB1	19:Dp:111:LEU:HD23	1.92	0.51
7:Ei:168:ALA:O	7:Ei:172:GLU:HG2	2.10	0.51
2:3:139:LEU:HD21	11:w:98:LEU:HD13	1.93	0.51
2:3:255:MET:HB2	4:8:214:ILE:HG12	1.92	0.51
4:8:28:VAL:HB	4:8:86:GLY:HA3	1.91	0.51
5:AP:41:PHE:HB2	10:p:31:THR:HA	1.91	0.51
6:Aj:82:ARG:HH11	6:Aj:396:GLU:HG2	1.74	0.51
6:Aj:130:VAL:HG12	6:Aj:137:VAL:HA	1.91	0.51
6:Aj:369:ASP:OD1	6:Aj:370:SER:N	2.43	0.51
6:Al:369:ASP:OD1	6:Al:370:SER:N	2.43	0.51
6:An:130:VAL:HG12	6:An:137:VAL:HA	1.92	0.51
6:Au:433:ILE:HD11	6:Az:416:PHE:HZ	1.75	0.51
6:Av:16:LEU:HD22	6:Av:412:ALA:HB1	1.91	0.51
5:C:123:ASN:HD21	5:C:127:THR:HB	1.75	0.51
6:D:82:ARG:HH11	6:D:396:GLU:HG2	1.76	0.51
6:G:422:SER:HA	6:L:409:LEU:HD21	1.92	0.51
8:c:119:SER:OG	11:s:74:ARG:NH2	2.44	0.51
10:o:84:GLY:O	10:o:101:ARG:NH2	2.43	0.51
17:A7:257:ARG:CZ	17:BB:161:VAL:HG11	2.41	0.51
14:Ce:119:LYS:NZ	14:Co:203:GLY:O	2.44	0.51
17:Cr:180:ARG:HH22	13:Cx:188:ASP:CG	2.13	0.51
17:Cw:257:ARG:CZ	17:C2:161:VAL:HG11	2.41	0.51
17:C2:257:ARG:CZ	17:C7:161:VAL:HG11	2.41	0.51
14:BS:119:LYS:NZ	14:Bc:203:GLY:O	2.44	0.51
14:BX:119:LYS:NZ	14:Bh:203:GLY:O	2.44	0.51
17:Bk:257:ARG:CZ	17:Bp:161:VAL:HG11	2.41	0.51
13:Bq:72:GLU:HB2	16:Bt:6:PRO:HA	1.92	0.51
19:DN:34:THR:O	19:DN:35:GLU:HB2	2.09	0.51
18:Df:185:LEU:HB3	18:Df:198:SER:HB3	1.92	0.51
18:Dv:185:LEU:HB3	18:Dv:198:SER:HB3	1.92	0.51
7:Ej:185:ALA:O	7:Ej:199:ALA:HA	2.11	0.51
2:2:189:ILE:HG12	7:Ed:191:VAL:O	2.10	0.51
6:A1:42:TYR:CE1	5:Aa:187:PRO:HB2	2.46	0.51
7:AE:351:GLN:O	10:n:42:ARG:NH1	2.38	0.51
5:AP:226:ASN:HB3	5:AP:229:GLU:HB2	1.93	0.51
5:AU:36:LYS:HB3	5:AU:225:VAL:HG12	1.92	0.51
6:Ab:57:GLY:H	6:Ag:21:ASN:HD22	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:151:PHE:CE2	6:Ae:344:VAL:HG21	2.44	0.51
6:An:172:LEU:HB3	6:An:212:GLN:HB2	1.92	0.51
6:Ao:130:VAL:HG12	6:Ao:137:VAL:HA	1.92	0.51
6:Aq:433:ILE:HD11	6:Av:416:PHE:CZ	2.45	0.51
6:Ar:69:GLU:OE1	6:Ar:82:ARG:NH2	2.38	0.51
6:As:196:ASP:OD1	6:As:200:GLN:N	2.40	0.51
6:Aw:111:LEU:HD11	6:Aw:147:ILE:HD12	1.92	0.51
6:F:196:ASP:OD1	6:F:200:GLN:N	2.43	0.51
9:l:9:VAL:HG21	9:l:62:THR:HB	1.92	0.51
2:z:192:LEU:HB3	7:EX:192:PHE:CZ	2.46	0.51
13:B7:72:GLU:HB2	16:CM:6:PRO:HA	1.92	0.51
13:CJ:155:ARG:NH2	13:C8:223:GLU:OE2	2.44	0.51
13:A8:334:ARG:HE	13:BC:295:VAL:HG11	1.75	0.51
14:A9:203:GLY:O	14:C9:119:LYS:NZ	2.44	0.51
13:Cx:127:GLY:HA2	13:Cx:170:THR:HG22	1.91	0.51
14:B2:203:GLY:O	14:Br:119:LYS:NZ	2.44	0.51
17:BG:257:ARG:CZ	17:BL:161:VAL:HG11	2.41	0.51
17:BQ:257:ARG:CZ	17:BV:161:VAL:HG11	2.41	0.51
17:BV:180:ARG:HH22	13:Bb:188:ASP:CG	2.13	0.51
14:Bh:119:LYS:NZ	14:Br:203:GLY:O	2.44	0.51
18:Dk:100:HIS:O	18:Dk:133:ARG:NH2	2.38	0.51
7:Ei:227:SER:OG	7:Ej:201:ALA:O	2.21	0.51
7:Eo:167:LEU:O	7:Eo:171:ILE:HG12	2.10	0.51
7:Ex:324:GLU:OE2	7:Ex:326:TYR:OH	2.26	0.51
7:Ey:273:LEU:HD23	7:Ey:294:VAL:HG11	1.91	0.51
6:A1:196:ASP:OD1	6:A1:200:GLN:N	2.40	0.51
6:A1:414:ARG:NH1	6:Au:427:ASN:OD1	2.44	0.51
5:AU:28:ASN:HD21	5:R:43:ASP:HB3	1.74	0.51
6:Ab:330:GLU:OE2	6:Ab:331:ASN:ND2	2.44	0.51
6:Ac:196:ASP:OD1	6:Ac:200:GLN:N	2.38	0.51
6:Ac:402:MET:HB2	6:F:430:GLN:HE21	1.76	0.51
6:Ay:3:TYR:HE1	5:T:87:GLN:CD	2.19	0.51
5:B:98:GLU:OE1	5:B:216:ARG:NH1	2.40	0.51
6:D:130:VAL:HG22	6:D:347:GLY:HA2	1.92	0.51
6:K:196:ASP:OD1	6:K:200:GLN:N	2.36	0.51
5:P:154:THR:HG23	5:P:214:GLU:HB3	1.91	0.51
10:q:14:GLN:HG3	10:q:58:MET:HA	1.92	0.51
10:q:84:GLY:O	10:q:101:ARG:NH2	2.42	0.51
11:s:87:ILE:HD12	23:s:201:XKP:C3	2.41	0.51
14:B8:178:THR:OG1	14:B2:227:ASN:O	2.29	0.51
17:CF:257:ARG:CZ	17:CN:161:VAL:HG11	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CI:257:ARG:CZ	17:A7:161:VAL:HG11	2.41	0.51
13:CJ:72:GLU:HB2	16:A6:6:PRO:HA	1.92	0.51
17:CS:257:ARG:CZ	17:CX:161:VAL:HG11	2.41	0.51
17:Cc:257:ARG:CZ	17:Ch:161:VAL:HG11	2.41	0.51
13:Ci:223:GLU:OE2	13:Cn:155:ARG:NH2	2.44	0.51
13:Cn:223:GLU:OE2	13:Cs:155:ARG:NH2	2.44	0.51
14:Bm:227:ASN:O	14:Br:178:THR:OG1	2.29	0.51
18:DI:138:SER:OG	18:DI:148:ARG:NH1	2.35	0.51
19:DJ:172:TYR:HD1	19:DJ:189:ARG:HH11	1.58	0.51
18:DX:100:HIS:O	18:DX:133:ARG:NH2	2.38	0.51
19:DZ:103:ALA:HB1	19:DZ:111:LEU:HD23	1.92	0.51
19:Dl:103:ALA:HB1	19:Dl:111:LEU:HD23	1.92	0.51
19:Dt:103:ALA:HB1	19:Dt:111:LEU:HD23	1.92	0.51
7:EG:324:GLU:OE2	7:EG:326:TYR:OH	2.26	0.51
7:EY:196:ASN:OD1	7:EY:196:ASN:N	2.42	0.51
7:Ee:174:MET:HB2	7:Ee:177:VAL:HB	1.93	0.51
7:Eq:187:PRO:HD2	7:Eq:199:ALA:HB2	1.93	0.51
7:Er:154:LEU:O	7:Er:158:ARG:HG3	2.11	0.51
7:Ez:273:LEU:HD23	7:Ez:294:VAL:HG11	1.91	0.51
7:E5:273:LEU:HD23	7:E5:294:VAL:HG11	1.91	0.51
2:1:282:THR:HG21	3:6:81:ILE:HG23	1.93	0.51
3:6:1:MET:SD	3:6:1:MET:N	2.70	0.51
1:9:32:ASP:OD1	1:9:36:ASN:N	2.30	0.51
6:A2:42:TYR:HD2	5:P:187:PRO:CB	2.19	0.51
5:AR:49:ILE:HD11	5:AR:66:LEU:HD13	1.93	0.51
5:AV:28:ASN:OD1	5:AV:28:ASN:N	2.43	0.51
6:Ad:68:HIS:CD2	6:Ad:399:ASN:HB2	2.46	0.51
6:As:84:SER:OG	6:As:391:ASN:ND2	2.44	0.51
6:Ay:3:TYR:CE1	5:T:87:GLN:CD	2.89	0.51
6:Ay:43:SER:OG	5:T:98:GLU:CG	2.55	0.51
5:R:115:THR:HB	5:R:192:LEU:HD23	1.93	0.51
5:a:155:ASP:O	5:a:173:GLN:NE2	2.43	0.51
14:CP:119:LYS:NZ	14:CZ:203:GLY:O	2.44	0.51
13:Ci:334:ARG:HE	13:Cn:295:VAL:HG11	1.75	0.51
13:C3:223:GLU:OE2	13:C8:155:ARG:NH2	2.44	0.51
13:BW:223:GLU:OE2	13:Bb:155:ARG:NH2	2.44	0.51
17:Ba:64:LEU:HD12	17:Ba:71:MET:HE2	1.93	0.51
13:Bb:223:GLU:OE2	13:Bg:155:ARG:NH2	2.44	0.51
14:Bm:119:LYS:NZ	14:Bw:203:GLY:O	2.44	0.51
17:Bp:180:ARG:HH22	13:Bv:188:ASP:CG	2.13	0.51
19:Dq:75:GLU:OE1	19:Dq:105:GLN:NE2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Ds:256:ASP:OD1	18:Ds:256:ASP:N	2.32	0.51
7:Ei:239:VAL:HG12	7:Ei:247:LEU:HD12	1.92	0.51
7:E4:273:LEU:HD23	7:E4:294:VAL:HG11	1.91	0.51
6:A3:413:GLN:HE21	6:A3:417:GLN:NE2	2.09	0.51
7:AI:339:LEU:HD11	9:h:72:GLU:CG	2.41	0.51
5:AS:47:GLN:HG3	5:AS:49:ILE:HD11	1.92	0.51
6:Ab:372:GLN:HB2	6:Am:343:ASN:HD22	1.76	0.51
6:Ad:172:LEU:HD22	6:Ad:212:GLN:HA	1.93	0.51
6:Ar:422:SER:HA	6:Aw:409:LEU:HD21	1.93	0.51
6:At:49:ASN:ND2	5:T:218:SER:CB	2.73	0.51
6:Au:111:LEU:HD11	6:Au:147:ILE:HD12	1.92	0.51
6:Av:43:SER:OG	5:P:83:HIS:HD2	1.94	0.51
6:Aw:196:ASP:OD1	6:Aw:200:GLN:N	2.37	0.51
6:Ay:47:PHE:HE1	5:Y:93:LEU:HD11	1.76	0.51
6:Ay:50:ALA:O	6:Ay:52:THR:N	2.44	0.51
6:Ay:370:SER:HG	5:T:166:GLN:CD	2.18	0.51
5:S:104:GLN:NE2	5:S:204:GLU:OE2	2.43	0.51
5:W:38:ARG:HH22	5:a:87:GLN:HE22	1.58	0.51
5:Y:96:MET:HE3	5:Y:221:GLU:HG3	1.93	0.51
10:o:1:MET:HG3	10:o:239:ASP:HB2	1.93	0.51
10:p:76:ARG:NH1	10:p:79:ASP:OD1	2.39	0.51
11:v:40:ALA:CA	23:v:201:XKP:O	2.59	0.51
14:B8:119:LYS:NZ	14:CK:203:GLY:O	2.44	0.51
13:CB:155:ARG:NH2	13:B6:223:GLU:OE2	2.44	0.51
17:A7:64:LEU:HD12	17:A7:71:MET:HE2	1.93	0.51
13:CO:72:GLU:HB2	16:CR:6:PRO:HA	1.92	0.51
14:CU:119:LYS:NZ	14:Ce:203:GLY:O	2.44	0.51
17:Cc:33:ARG:CZ	14:Ce:84:SER:HB2	2.41	0.51
17:Cm:64:LEU:HD12	17:Cm:71:MET:HE2	1.93	0.51
17:Cr:64:LEU:HD12	17:Cr:71:MET:HE2	1.93	0.51
13:B1:223:GLU:OE2	13:B6:155:ARG:NH2	2.44	0.51
13:BC:157:LEU:O	13:BC:161:SER:OG	2.27	0.51
13:BW:72:GLU:HB2	16:BZ:6:PRO:HA	1.92	0.51
13:Bl:72:GLU:HB2	16:Bo:6:PRO:HA	1.92	0.51
17:Bp:257:ARG:CZ	17:Bu:161:VAL:HG11	2.41	0.51
18:DM:93:PRO:HD2	18:DM:96:ARG:HD2	1.93	0.51
18:DQ:93:PRO:HD2	18:DQ:96:ARG:HD2	1.93	0.51
18:DU:93:PRO:HD2	18:DU:96:ARG:HD2	1.93	0.51
18:DY:93:PRO:HD2	18:DY:96:ARG:HD2	1.93	0.51
19:Dx:103:ALA:HB1	19:Dx:111:LEU:HD23	1.92	0.51
7:EH:324:GLU:OE2	7:EH:326:TYR:OH	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ES:324:GLU:OE2	7:ES:326:TYR:OH	2.26	0.51
7:Ef:184:LEU:HD21	7:Ef:229:VAL:HG21	1.91	0.51
7:Ei:207:LEU:N	7:Ei:242:GLN:OE1	2.43	0.51
7:Ej:229:VAL:HB	7:Ej:232:MET:SD	2.51	0.51
7:El:163:ARG:HA	7:El:166:GLN:HE21	1.76	0.51
7:Er:246:LEU:H	7:Es:216:GLN:HE21	1.58	0.51
2:2:112:ILE:HG22	2:2:116:MET:HE2	1.93	0.51
1:9:141:ARG:HH22	7:AJ:356:MET:HB3	1.76	0.51
6:A1:362:LYS:HD2	6:Av:42:TYR:CE2	2.45	0.51
5:AR:98:GLU:CD	5:X:45:PHE:HB3	2.36	0.51
5:AU:232:VAL:HG11	5:Z:9:LYS:HG3	1.93	0.51
6:Ac:57:GLY:H	6:Ah:21:ASN:HD22	1.59	0.51
6:Ad:183:PRO:HA	6:Ad:186:TYR:CZ	2.46	0.51
6:Ai:82:ARG:HH11	6:Ai:396:GLU:HG2	1.75	0.51
6:Am:415:ASN:O	6:Am:419:ASN:ND2	2.41	0.51
6:D:101:ASN:OD1	6:D:377:LYS:NZ	2.43	0.51
6:E:151:PHE:CE2	6:E:344:VAL:HG21	2.46	0.51
5:P:239:ARG:O	5:P:243:MET:HG2	2.11	0.51
5:a:94:ASP:HB2	5:a:220:LEU:HD21	1.92	0.51
8:e:88:THR:HG22	10:m:56:PHE:HZ	1.74	0.51
9:l:70:ILE:HD13	10:q:51:HIS:HB3	1.93	0.51
17:CA:33:ARG:CZ	14:CC:84:SER:HB2	2.41	0.51
16:CH:6:PRO:HA	13:C8:72:GLU:HB2	1.92	0.51
17:CI:161:VAL:HG11	17:C7:257:ARG:CZ	2.41	0.51
13:CJ:223:GLU:OE2	13:A8:155:ARG:NH2	2.44	0.51
14:CK:227:ASN:O	14:CP:178:THR:OG1	2.29	0.51
13:CO:223:GLU:OE2	13:CT:155:ARG:NH2	2.44	0.51
17:Ch:64:LEU:HD12	17:Ch:71:MET:HE2	1.93	0.51
17:Cr:257:ARG:CZ	17:Cw:161:VAL:HG11	2.41	0.51
17:B5:64:LEU:HD12	17:B5:71:MET:HE2	1.93	0.51
17:B5:161:VAL:HG11	17:Bz:257:ARG:CZ	2.41	0.51
17:BL:33:ARG:CZ	14:BN:84:SER:HB2	2.41	0.51
17:BV:64:LEU:HD12	17:BV:71:MET:HE2	1.93	0.51
13:Bg:223:GLU:OE2	13:Bl:155:ARG:NH2	2.44	0.51
14:Bh:227:ASN:O	14:Bm:178:THR:OG1	2.29	0.51
19:DB:172:TYR:HD1	19:DB:189:ARG:HH11	1.58	0.51
19:DF:34:THR:O	19:DF:35:GLU:HB2	2.09	0.51
19:DF:172:TYR:HD1	19:DF:189:ARG:HH11	1.58	0.51
19:DN:172:TYR:HD1	19:DN:189:ARG:HH11	1.58	0.51
7:Ek:174:MET:SD	7:Ek:221:ILE:HD11	2.51	0.51
6:Ad:370:SER:OG	6:Ad:375:GLY:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ah:196:ASP:OD1	6:Ah:200:GLN:N	2.44	0.50
6:Av:183:PRO:HA	6:Av:186:TYR:CZ	2.46	0.50
6:Az:184:ASP:OD1	6:Az:184:ASP:N	2.44	0.50
5:C:59:ASN:HB3	5:C:62:LEU:HB2	1.94	0.50
6:E:109:PHE:CE1	6:E:119:THR:HG22	2.45	0.50
6:E:130:VAL:HG12	6:E:137:VAL:HA	1.93	0.50
6:G:327:ASP:OD1	6:G:327:ASP:N	2.43	0.50
8:b:39:LYS:NZ	8:b:91:GLY:O	2.42	0.50
14:B8:227:ASN:O	14:CC:178:THR:OG1	2.29	0.50
17:CA:64:LEU:HD12	17:CA:71:MET:HE2	1.93	0.50
17:CI:64:LEU:HD12	17:CI:71:MET:HE2	1.93	0.50
14:A4:178:THR:OG1	14:C9:227:ASN:O	2.29	0.50
14:A9:256:ASN:O	14:C9:127:LYS:NZ	2.40	0.50
13:CT:223:GLU:OE2	13:CY:155:ARG:NH2	2.44	0.50
17:CX:33:ARG:CZ	14:CZ:84:SER:HB2	2.41	0.50
17:Ch:33:ARG:CZ	14:Cj:84:SER:HB2	2.41	0.50
17:C2:33:ARG:CZ	14:C4:84:SER:HB2	2.42	0.50
17:C7:33:ARG:CZ	14:C9:84:SER:HB2	2.41	0.50
14:B2:178:THR:OG1	14:Bw:227:ASN:O	2.29	0.50
17:BB:64:LEU:HD12	17:BB:71:MET:HE2	1.93	0.50
17:BG:33:ARG:CZ	14:BI:84:SER:HB2	2.41	0.50
13:BH:334:ARG:HE	13:BM:295:VAL:HG11	1.75	0.50
17:BL:257:ARG:CZ	17:BQ:161:VAL:HG11	2.41	0.50
17:BQ:33:ARG:CZ	14:BS:84:SER:HB2	2.41	0.50
17:Bz:64:LEU:HD12	17:Bz:71:MET:HE2	1.93	0.50
18:DI:93:PRO:HD2	18:DI:96:ARG:HD2	1.93	0.50
19:DR:172:TYR:HD1	19:DR:189:ARG:HH11	1.58	0.50
7:EZ:241:ASP:CG	7:EZ:245:ARG:HG2	2.37	0.50
7:Eh:179:LYS:HB3	7:Eh:206:THR:HG23	1.93	0.50
7:Ei:176:GLN:OE1	7:Ei:176:GLN:N	2.40	0.50
7:Ep:160:LYS:HD3	7:Ep:186:LEU:HG	1.93	0.50
7:Es:207:LEU:HD21	7:Es:213:LEU:HD11	1.91	0.50
3:6:52:LEU:HB2	3:7:25:ILE:HG21	1.94	0.50
4:8:81:ILE:HG22	4:8:85:MET:HE1	1.94	0.50
5:AQ:122:LEU:O	5:AR:181:ASN:ND2	2.44	0.50
5:AR:28:ASN:ND2	5:AX:43:ASP:HB3	2.27	0.50
5:AS:82:THR:HB	5:AS:224:ASN:HD22	1.76	0.50
5:AT:41:PHE:HB3	5:C:31:THR:HG22	1.93	0.50
5:AX:94:ASP:HB2	5:AX:220:LEU:HD21	1.93	0.50
6:Ab:132:PRO:HB3	6:Ab:344:VAL:HG13	1.93	0.50
6:Ab:196:ASP:OD1	6:Ab:200:GLN:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:184:GLY:O	5:B:196:THR:OG1	2.30	0.50
6:E:105:ARG:NH1	6:E:396:GLU:OE1	2.44	0.50
2:y:189:ILE:CD1	7:Ep:192:PHE:CD1	2.86	0.50
13:B7:223:GLU:OE2	13:CO:155:ARG:NH2	2.44	0.50
14:B8:84:SER:HB2	17:B5:33:ARG:CZ	2.41	0.50
13:Cd:223:GLU:OE2	13:Ci:155:ARG:NH2	2.44	0.50
13:Cs:334:ARG:HE	13:Cx:295:VAL:HG11	1.75	0.50
14:Ct:227:ASN:O	14:Cy:178:THR:OG1	2.29	0.50
17:Cw:64:LEU:HD12	17:Cw:71:MET:HE2	1.93	0.50
17:BB:33:ARG:CZ	14:BD:84:SER:HB2	2.41	0.50
14:BD:119:LYS:NZ	14:BN:203:GLY:O	2.44	0.50
14:BX:227:ASN:O	14:Bc:178:THR:OG1	2.29	0.50
13:Bb:72:GLU:HB2	16:Be:6:PRO:HA	1.92	0.50
17:Bf:64:LEU:HD12	17:Bf:71:MET:HE2	1.93	0.50
18:DP:185:LEU:HB3	18:DP:198:SER:HB3	1.92	0.50
18:DQ:100:HIS:O	18:DQ:133:ARG:NH2	2.38	0.50
20:D8:3:LEU:CA	7:EL:374:ASN:OD1	2.59	0.50
7:EZ:203:VAL:HG13	7:EZ:239:VAL:HG22	1.93	0.50
7:Ep:204:PHE:HE1	7:Ep:206:THR:HG22	1.76	0.50
6:A2:183:PRO:HA	6:A2:186:TYR:CZ	2.46	0.50
7:AG:336:PRO:HG2	7:AO:352:ASP:HB3	1.92	0.50
7:AH:342:GLN:HG3	7:AH:343:PRO:HD2	1.93	0.50
5:AT:7:VAL:O	5:AT:10:THR:OG1	2.29	0.50
5:AY:262:LEU:OXT	5:T:246:LYS:NZ	2.40	0.50
6:Ac:183:PRO:HA	6:Ac:186:TYR:CZ	2.46	0.50
6:Ac:416:PHE:CZ	6:L:433:ILE:HD11	2.47	0.50
6:Ap:82:ARG:HH11	6:Ap:396:GLU:HG2	1.74	0.50
6:Aq:196:ASP:OD1	6:Aq:200:GLN:N	2.40	0.50
6:Ar:33:GLU:HB3	6:Ar:400:ILE:HG22	1.93	0.50
6:As:47:PHE:O	5:S:92:ALA:N	2.45	0.50
6:Av:276:PRO:HA	6:Av:282:PRO:HG3	1.93	0.50
6:Az:370:SER:O	5:U:161:ARG:NH2	2.44	0.50
5:C:133:SER:OG	5:C:190:GLN:NE2	2.45	0.50
14:B8:203:GLY:O	14:Bw:119:LYS:NZ	2.44	0.50
14:CC:119:LYS:NZ	14:CP:203:GLY:O	2.44	0.50
17:CF:33:ARG:CZ	14:CK:84:SER:HB2	2.41	0.50
14:CK:119:LYS:NZ	14:CU:203:GLY:O	2.44	0.50
17:CN:257:ARG:CZ	17:CS:161:VAL:HG11	2.41	0.50
13:CT:72:GLU:HB2	16:CW:6:PRO:HA	1.92	0.50
14:CZ:119:LYS:NZ	14:Cj:203:GLY:O	2.44	0.50
14:Co:119:LYS:NZ	14:Cy:203:GLY:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B1:155:ARG:NH2	13:Bv:223:GLU:OE2	2.44	0.50
13:BR:223:GLU:OE2	13:BW:155:ARG:NH2	2.44	0.50
19:Di:75:GLU:OE1	19:Di:105:GLN:NE2	2.42	0.50
19:Du:75:GLU:OE1	19:Du:105:GLN:NE2	2.42	0.50
7:Ec:153:ARG:HH22	7:Ec:188:LYS:HD3	1.76	0.50
7:Ee:199:ALA:HB3	7:Ee:232:MET:HB3	1.94	0.50
7:Ee:222:VAL:HG23	7:Ee:237:ILE:HB	1.93	0.50
7:Ef:218:VAL:HG21	7:Ef:247:LEU:HB3	1.93	0.50
7:Eh:241:ASP:OD2	7:Eh:245:ARG:NH1	2.45	0.50
22:2:301:PGT:H211	23:u:201:XKP:C2	2.42	0.50
5:A:44:LEU:HD21	5:A:73:LYS:HD3	1.92	0.50
6:A1:369:ASP:OD1	6:A1:370:SER:N	2.44	0.50
7:AK:330:ASN:N	7:AK:330:ASN:HD22	2.10	0.50
5:AR:94:ASP:HB2	5:AR:220:LEU:HD21	1.92	0.50
5:AT:254:MET:HG3	5:C:238:GLN:HG3	1.93	0.50
5:AV:208:GLY:N	5:AV:213:GLY:O	2.44	0.50
6:Ao:370:SER:OG	6:Ao:375:GLY:O	2.29	0.50
6:Ay:183:PRO:HA	6:Ay:186:TYR:CZ	2.47	0.50
6:F:415:ASN:O	6:F:419:ASN:ND2	2.42	0.50
6:H:82:ARG:HH11	6:H:396:GLU:HG2	1.77	0.50
6:I:109:PHE:CE1	6:I:119:THR:HG22	2.47	0.50
5:Z:123:ASN:HD21	5:Z:127:THR:HB	1.74	0.50
9:i:37:SER:O	9:i:38:ALA:HB3	2.11	0.50
13:B7:155:ARG:NH2	13:CB:223:GLU:OE2	2.44	0.50
17:CI:33:ARG:CZ	14:A4:84:SER:HB2	2.41	0.50
14:CP:227:ASN:O	14:CU:178:THR:OG1	2.29	0.50
17:Ch:257:ARG:CZ	17:Cm:161:VAL:HG11	2.41	0.50
17:Cw:33:ARG:CZ	14:Cy:84:SER:HB2	2.42	0.50
14:B2:84:SER:HB2	17:Bz:33:ARG:CZ	2.41	0.50
13:BH:223:GLU:OE2	13:BM:155:ARG:NH2	2.44	0.50
13:BM:223:GLU:OE2	13:BR:155:ARG:NH2	2.44	0.50
14:BS:227:ASN:O	14:BX:178:THR:OG1	2.29	0.50
17:Bp:33:ARG:CZ	14:Br:84:SER:HB2	2.41	0.50
17:Bu:33:ARG:CZ	14:Bw:84:SER:HB2	2.42	0.50
17:Bu:64:LEU:HD12	17:Bu:71:MET:HE2	1.93	0.50
18:DI:256:ASP:OD1	18:DI:256:ASP:N	2.32	0.50
18:DT:185:LEU:HB3	18:DT:198:SER:HB3	1.93	0.50
18:Dc:93:PRO:HD2	18:Dc:96:ARG:HD2	1.93	0.50
19:Dh:103:ALA:HB1	19:Dh:111:LEU:HD23	1.92	0.50
18:Dv:247:TYR:O	18:Dv:250:SER:OG	2.20	0.50
7:ET:324:GLU:OE2	7:ET:326:TYR:OH	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EX:164:GLU:HG2	7:EX:184:LEU:HD13	1.93	0.50
7:Eb:168:ALA:O	7:Eb:172:GLU:HG2	2.11	0.50
7:Ee:193:VAL:O	7:Ee:195:HIS:N	2.44	0.50
7:Er:239:VAL:HG12	7:Er:247:LEU:HD12	1.93	0.50
4:8:204:VAL:HG23	12:x:39:LEU:HD22	1.93	0.50
6:A2:59:GLN:CD	5:W:219:MET:CE	2.80	0.50
6:A2:130:VAL:HG22	6:A2:347:GLY:HA2	1.93	0.50
6:A2:429:LEU:HD11	5:P:19:ILE:CD1	2.41	0.50
5:AR:258:VAL:HG11	9:i:102:MET:HE1	1.93	0.50
6:Ak:321:GLY:HA3	6:Ak:338:TYR:HB3	1.94	0.50
6:Aw:171:ASP:OD1	6:Aw:171:ASP:N	2.44	0.50
5:B:104:GLN:HE22	5:B:204:GLU:HG3	1.76	0.50
6:I:37:GLU:HG2	6:N:29:TYR:HE2	1.76	0.50
5:T:154:THR:HG23	5:T:214:GLU:HB3	1.93	0.50
14:CC:203:GLY:O	14:B2:119:LYS:NZ	2.44	0.50
17:CF:64:LEU:HD12	17:CF:71:MET:HE2	1.93	0.50
13:Ci:72:GLU:HB2	16:Cl:6:PRO:HA	1.92	0.50
13:Cs:223:GLU:OE2	13:Cx:155:ARG:NH2	2.44	0.50
13:Cx:223:GLU:OE2	13:C3:155:ARG:NH2	2.44	0.50
14:BD:227:ASN:O	14:BI:178:THR:OG1	2.29	0.50
17:BQ:64:LEU:HD12	17:BQ:71:MET:HE2	1.93	0.50
17:BQ:253:ILE:HD13	17:BQ:361:ILE:HB	1.93	0.50
17:BV:253:ILE:HD13	17:BV:361:ILE:HB	1.94	0.50
13:Bg:72:GLU:HB2	16:Bj:6:PRO:HA	1.92	0.50
13:Bl:223:GLU:OE2	13:Bq:155:ARG:NH2	2.44	0.50
14:Br:227:ASN:O	14:Bw:178:THR:OG1	2.29	0.50
17:Bu:257:ARG:CZ	17:Bz:161:VAL:HG11	2.41	0.50
18:Db:185:LEU:HB3	18:Db:198:SER:HB3	1.93	0.50
18:Dk:256:ASP:OD1	18:Dk:256:ASP:N	2.32	0.50
7:D5:374:ASN:HD22	20:D7:7:ASP:CB	2.20	0.50
20:D6:2:GLY:C	20:D6:4:SER:N	2.70	0.50
20:D6:9:ARG:O	20:D6:10:HIS:C	2.53	0.50
7:Ea:200:SER:HB2	7:Ea:236:ARG:HH21	1.76	0.50
2:1:206:PRO:CG	7:Ei:192:PHE:CE2	2.89	0.50
4:8:149:GLN:HE22	7:Ej:192:PHE:HB3	1.77	0.50
1:9:33:ASN:ND2	9:i:34:VAL:O	2.44	0.50
6:A1:59:GLN:CD	5:V:219:MET:HE1	2.37	0.50
6:A1:372:GLN:CG	5:V:168:ASN:OD1	2.59	0.50
7:AD:341:ASN:HD22	7:EK:366:SER:CB	2.24	0.50
7:AK:353:VAL:HG21	9:g:71:VAL:HG11	1.94	0.50
5:AS:28:ASN:ND2	5:AW:43:ASP:HB3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AU:115:THR:HB	5:AU:192:LEU:HD12	1.94	0.50
5:AW:185:LEU:HB3	5:AW:193:TYR:HB3	1.93	0.50
5:AZ:154:THR:HG23	5:AZ:214:GLU:HB3	1.94	0.50
6:Ad:151:PHE:CE2	6:Ad:344:VAL:HG21	2.47	0.50
6:Aq:6:LEU:HD13	6:Aw:407:VAL:HG11	1.92	0.50
6:As:69:GLU:OE1	6:As:82:ARG:NH2	2.44	0.50
6:J:119:THR:HG23	6:J:123:GLU:O	2.12	0.50
6:N:151:PHE:CE2	6:N:344:VAL:HG21	2.46	0.50
5:V:154:THR:HG23	5:V:214:GLU:HB3	1.93	0.50
8:b:35:THR:O	8:b:92:ASN:ND2	2.44	0.50
8:d:128:ILE:HD13	11:u:83:ALA:HB2	1.94	0.50
10:n:21:LEU:HD23	10:n:39:ALA:HB2	1.94	0.50
14:CC:227:ASN:O	14:CK:178:THR:OG1	2.29	0.50
18:CG:185:LEU:HB3	18:CG:198:SER:HB3	1.93	0.50
17:Cm:257:ARG:CZ	17:Cr:161:VAL:HG11	2.41	0.50
14:Co:227:ASN:O	14:Ct:178:THR:OG1	2.29	0.50
13:C3:72:GLU:HB2	16:C6:6:PRO:HA	1.92	0.50
14:C4:227:ASN:O	14:C9:178:THR:OG1	2.29	0.50
13:C8:362:ASN:HD22	18:DY:89:ILE:CD1	2.15	0.50
13:BC:223:GLU:OE2	13:BH:155:ARG:NH2	2.44	0.50
17:BV:33:ARG:CZ	14:BX:84:SER:HB2	2.41	0.50
13:Bq:148:ASP:OD2	13:Bq:256:THR:OG1	2.28	0.50
18:DE:93:PRO:HD2	18:DE:96:ARG:HD2	1.93	0.50
18:DX:185:LEU:HB3	18:DX:198:SER:HB3	1.92	0.50
19:Dd:103:ALA:HB1	19:Dd:111:LEU:HD23	1.92	0.50
7:EO:430:LEU:HA	7:EO:433:THR:HB	1.94	0.50
7:Ef:227:SER:OG	7:Eg:200:SER:OG	2.28	0.50
7:Em:173:GLU:HB2	7:En:204:PHE:HZ	1.77	0.50
7:Eo:216:GLN:HE21	7:Et:246:LEU:H	1.60	0.50
2:2:276:TRP:HB3	2:z:220:THR:HG23	1.93	0.50
5:AQ:43:ASP:N	5:AQ:43:ASP:OD1	2.45	0.50
5:AR:166:GLN:O	5:AR:167:ASP:HB2	2.12	0.50
6:Am:84:SER:OG	6:Am:391:ASN:ND2	2.44	0.50
6:Ao:427:ASN:HD21	6:Au:410:ILE:HG21	1.76	0.50
6:Ap:77:ASN:HD21	6:Ap:79:MET:HB2	1.76	0.50
6:Aq:105:ARG:NH1	6:Aq:396:GLU:OE1	2.45	0.50
6:Ar:183:PRO:HA	6:Ar:186:TYR:CZ	2.47	0.50
6:M:151:PHE:CE2	6:M:344:VAL:HG21	2.47	0.50
5:X:188:ILE:HD13	5:X:194:LEU:HG	1.94	0.50
14:A4:227:ASN:O	14:A9:178:THR:OG1	2.29	0.50
13:A8:223:GLU:OE2	13:BC:155:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CS:33:ARG:CZ	14:CU:84:SER:HB2	2.41	0.50
17:Cc:64:LEU:HD12	17:Cc:71:MET:HE2	1.93	0.50
13:Cd:72:GLU:HB2	16:Cg:6:PRO:HA	1.92	0.50
17:Cm:33:ARG:CZ	14:Co:84:SER:HB2	2.41	0.50
17:BG:64:LEU:HD12	17:BG:71:MET:HE2	1.93	0.50
17:Bk:33:ARG:CZ	14:Bm:84:SER:HB2	2.41	0.50
18:DL:185:LEU:HB3	18:DL:198:SER:HB3	1.93	0.50
21:EA:14:GLU:CB	7:EK:306:THR:OG1	2.59	0.50
7:EI:324:GLU:OE2	7:EI:326:TYR:OH	2.26	0.50
7:EL:430:LEU:HA	7:EL:433:THR:HB	1.94	0.50
7:EM:430:LEU:HA	7:EM:433:THR:HB	1.94	0.50
7:EW:430:LEU:HA	7:EW:433:THR:HB	1.94	0.50
7:Eb:187:PRO:HB3	7:Eb:197:GLN:HB2	1.93	0.50
7:El:178:ARG:NH1	7:El:207:LEU:O	2.44	0.50
7:Ev:430:LEU:HA	7:Ev:433:THR:HB	1.94	0.50
7:Ex:430:LEU:HA	7:Ex:433:THR:HB	1.94	0.50
3:4:5:MET:SD	3:4:83:ARG:NH2	2.85	0.50
1:9:33:ASN:ND2	9:i:95:TYR:O	2.40	0.50
1:9:193:LEU:HG	1:9:195:GLY:H	1.76	0.50
7:AF:347:ALA:HA	7:AF:353:VAL:CG1	2.42	0.50
5:AQ:146:ASP:OD2	17:C7:76:LYS:NZ	2.45	0.50
6:Ac:130:VAL:HG22	6:Ac:347:GLY:HA2	1.94	0.50
6:Ao:109:PHE:CE1	6:Ao:119:THR:HG22	2.47	0.50
6:At:69:GLU:OE1	6:At:82:ARG:NH2	2.45	0.50
5:B:94:ASP:HB2	5:B:220:LEU:HD21	1.94	0.50
6:H:117:MET:HE3	6:H:125:LEU:HD23	1.94	0.50
6:I:151:PHE:CE2	6:I:344:VAL:HG21	2.47	0.50
6:J:130:VAL:HG22	6:J:347:GLY:HA2	1.93	0.50
6:M:82:ARG:HH11	6:M:396:GLU:HG2	1.77	0.50
5:T:83:HIS:CE1	5:T:99:GLY:H	2.30	0.50
5:U:18:ASN:HB2	5:U:41:PHE:HZ	1.76	0.50
13:B7:188:ASP:CG	17:CA:180:ARG:HH22	2.13	0.50
17:CF:180:ARG:HH22	13:CO:188:ASP:CG	2.13	0.50
17:A7:33:ARG:CZ	14:A9:84:SER:HB2	2.41	0.50
17:CN:64:LEU:HD12	17:CN:71:MET:HE2	1.93	0.50
13:CY:72:GLU:HB2	16:Cb:6:PRO:HA	1.92	0.50
14:CZ:227:ASN:O	14:Ce:178:THR:OG1	2.29	0.50
17:Bk:64:LEU:HD12	17:Bk:71:MET:HE2	1.93	0.50
13:Bq:223:GLU:OE2	13:Bv:155:ARG:NH2	2.44	0.50
19:DN:139:ALA:HB1	19:DN:147:ARG:HG2	1.94	0.50
19:Dx:172:TYR:HD1	19:Dx:189:ARG:HH11	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EJ:324:GLU:OE2	7:EJ:326:TYR:OH	2.26	0.50
7:ET:430:LEU:HA	7:ET:433:THR:HB	1.94	0.50
7:EV:430:LEU:HA	7:EV:433:THR:HB	1.94	0.50
7:Ee:139:ASP:OD1	7:Ee:139:ASP:N	2.45	0.50
7:Eg:172:GLU:OE2	7:Eg:180:ALA:N	2.42	0.50
7:Eh:171:ILE:HD12	7:Eh:221:ILE:HD12	1.94	0.50
2:3:183:MET:HE1	2:3:211:MET:HG3	1.93	0.50
6:A3:38:PHE:O	5:Q:31:THR:HG23	2.11	0.50
6:A3:84:SER:OG	6:A3:391:ASN:ND2	2.43	0.50
5:AR:90:THR:HG23	5:AX:80:VAL:HG11	1.94	0.50
5:AX:176:ILE:HG21	5:AX:215:ILE:HD11	1.93	0.50
5:AY:187:PRO:HB3	6:Ay:42:TYR:CD1	2.47	0.50
6:Af:415:ASN:O	6:Af:419:ASN:ND2	2.42	0.50
6:Am:33:GLU:HB3	6:Am:400:ILE:HG22	1.94	0.50
6:Ap:354:VAL:HG21	6:Ap:360:LEU:HD21	1.93	0.50
6:As:105:ARG:NH1	6:As:396:GLU:OE1	2.44	0.50
6:Ax:327:ASP:N	6:Ax:327:ASP:OD1	2.43	0.50
6:Ay:434:LEU:CD1	5:T:231:LEU:HD11	2.42	0.50
6:F:69:GLU:OE1	6:F:82:ARG:NH2	2.45	0.50
10:p:84:GLY:O	10:p:101:ARG:NH2	2.32	0.50
11:u:60:ARG:NH1	11:u:62:ASP:OD1	2.45	0.50
13:B7:362:ASN:ND2	18:DE:89:ILE:HD11	2.12	0.50
17:CX:180:ARG:HH22	13:Cd:188:ASP:CG	2.12	0.50
17:CX:253:ILE:HD13	17:CX:361:ILE:HB	1.94	0.50
17:Cc:253:ILE:HD13	17:Cc:361:ILE:HB	1.93	0.50
14:Ce:227:ASN:O	14:Cj:178:THR:OG1	2.29	0.50
14:Cy:227:ASN:O	14:C4:178:THR:OG1	2.29	0.50
17:C7:64:LEU:HD12	17:C7:71:MET:HE2	1.93	0.50
17:Ba:33:ARG:CZ	14:Bc:84:SER:HB2	2.41	0.50
17:Ba:253:ILE:HD13	17:Ba:361:ILE:HB	1.94	0.50
18:DH:185:LEU:HB3	18:DH:198:SER:HB3	1.93	0.50
19:DR:139:ALA:HB1	19:DR:147:ARG:HG2	1.94	0.50
18:DU:247:TYR:O	18:DU:250:SER:OG	2.25	0.50
7:EQ:430:LEU:HA	7:EQ:433:THR:HB	1.94	0.50
7:Ea:179:LYS:HB3	7:Ea:206:THR:HG23	1.92	0.50
7:Ek:229:VAL:HB	7:Ek:232:MET:HE2	1.93	0.50
7:En:241:ASP:OD2	7:En:245:ARG:NH1	2.45	0.50
7:Eo:168:ALA:O	7:Eo:172:GLU:HG2	2.12	0.50
7:Eu:430:LEU:HA	7:Eu:433:THR:HB	1.94	0.50
2:1:104:ILE:HD12	4:8:44:TYR:HE2	1.77	0.49
6:A3:62:GLN:OE1	5:Q:131:SER:OG	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Af:117:MET:HE3	6:Af:125:LEU:HD23	1.93	0.49
6:An:69:GLU:OE1	6:An:82:ARG:NH2	2.45	0.49
6:Ao:130:VAL:HG22	6:Ao:347:GLY:HA2	1.94	0.49
6:Ap:429:LEU:HD21	6:Au:413:GLN:HG3	1.94	0.49
6:J:130:VAL:HG12	6:J:137:VAL:HA	1.94	0.49
5:R:240:VAL:O	5:R:244:ASN:ND2	2.45	0.49
5:Y:226:ASN:HB3	5:Y:229:GLU:HB2	1.94	0.49
8:c:104:MET:SD	9:i:126:LYS:NZ	2.80	0.49
17:A7:253:ILE:HD13	17:A7:361:ILE:HB	1.93	0.49
14:A9:227:ASN:O	14:BD:178:THR:OG1	2.29	0.49
17:CN:253:ILE:HD13	17:CN:361:ILE:HB	1.93	0.49
13:CY:223:GLU:OE2	13:Cd:155:ARG:NH2	2.44	0.49
17:Ch:253:ILE:HD13	17:Ch:361:ILE:HB	1.93	0.49
17:Cm:253:ILE:HD13	17:Cm:361:ILE:HB	1.93	0.49
17:Cr:33:ARG:CZ	14:Ct:84:SER:HB2	2.41	0.49
17:C2:64:LEU:HD12	17:C2:71:MET:HE2	1.93	0.49
14:Bc:227:ASN:O	14:Bh:178:THR:OG1	2.29	0.49
19:Dh:139:ALA:HB1	19:Dh:147:ARG:HG2	1.94	0.49
7:EJ:430:LEU:HA	7:EJ:433:THR:HB	1.94	0.49
7:EN:430:LEU:HA	7:EN:433:THR:HB	1.94	0.49
7:ER:430:LEU:HA	7:ER:433:THR:HB	1.94	0.49
7:ES:430:LEU:HA	7:ES:433:THR:HB	1.94	0.49
7:Eg:171:ILE:HD12	7:Eg:221:ILE:HD12	1.93	0.49
7:Ei:245:ARG:HG3	7:Ei:247:LEU:HD21	1.94	0.49
7:Ej:231:GLY:O	7:Ej:232:MET:HG3	2.12	0.49
7:Em:182:VAL:HG13	7:Em:203:VAL:HB	1.92	0.49
7:Ep:178:ARG:NH1	7:Ep:207:LEU:O	2.45	0.49
7:Er:246:LEU:H	7:Es:216:GLN:NE2	2.09	0.49
7:Ew:430:LEU:HA	7:Ew:433:THR:HB	1.94	0.49
1:9:32:ASP:HB2	9:i:41:THR:HB	1.94	0.49
1:9:41:ASN:ND2	1:9:61:GLN:OE1	2.45	0.49
6:A1:3:TYR:CD1	5:V:87:GLN:HG2	2.48	0.49
5:AQ:82:THR:OG1	5:AQ:224:ASN:ND2	2.37	0.49
5:AR:255:MET:HE3	10:n:223:ARG:HG3	1.93	0.49
5:AV:262:LEU:O	5:B:246:LYS:NZ	2.45	0.49
6:Ak:109:PHE:HE1	6:Ak:119:THR:HG22	1.76	0.49
6:Ao:429:LEU:HD21	6:At:413:GLN:HG3	1.93	0.49
6:Aw:276:PRO:HA	6:Aw:282:PRO:HG3	1.93	0.49
6:Ay:174:ASP:HB3	6:Ay:177:GLN:HB2	1.93	0.49
6:Az:35:ARG:HB3	6:Az:66:GLN:HE21	1.76	0.49
6:D:117:MET:HE3	6:D:125:LEU:HD23	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:117:MET:HE3	6:J:125:LEU:HD23	1.94	0.49
6:M:117:MET:HE3	6:M:125:LEU:HD23	1.95	0.49
5:W:178:ASP:HB2	5:W:212:LEU:HD21	1.93	0.49
17:CN:33:ARG:CZ	14:CP:84:SER:HB2	2.41	0.49
13:Cn:72:GLU:HB2	16:Cq:6:PRO:HA	1.92	0.49
18:DA:93:PRO:HD2	18:DA:96:ARG:HD2	1.93	0.49
14:BI:227:ASN:O	14:BN:178:THR:OG1	2.29	0.49
17:Bf:33:ARG:CZ	14:Bh:84:SER:HB2	2.41	0.49
17:Bp:64:LEU:HD12	17:Bp:71:MET:HE2	1.93	0.49
17:Bu:253:ILE:HD13	17:Bu:361:ILE:HB	1.93	0.49
19:DJ:139:ALA:HB1	19:DJ:147:ARG:HG2	1.94	0.49
19:DV:172:TYR:HD1	19:DV:189:ARG:HH11	1.58	0.49
18:Dg:93:PRO:HD2	18:Dg:96:ARG:HD2	1.93	0.49
7:EK:430:LEU:HA	7:EK:433:THR:HB	1.94	0.49
7:EP:430:LEU:HA	7:EP:433:THR:HB	1.94	0.49
7:Ed:235:SER:O	7:Ed:250:GLY:HA2	2.13	0.49
7:El:168:ALA:O	7:El:172:GLU:HG2	2.12	0.49
7:Es:238:THR:HG21	7:Et:224:MET:HA	1.94	0.49
1:0:153:VAL:HG12	1:0:155:GLY:H	1.77	0.49
4:8:43:LEU:HD21	11:s:99:MET:HA	1.95	0.49
6:A3:40:ASP:OD2	6:A3:42:TYR:CE2	2.65	0.49
6:A3:48:THR:HG22	5:X:82:THR:OG1	2.04	0.49
5:AY:36:LYS:HB3	5:AY:225:VAL:HG12	1.94	0.49
6:Ae:33:GLU:HB3	6:Ae:400:ILE:HG22	1.94	0.49
6:Aj:360:LEU:HB3	6:Aj:368:TRP:HB3	1.94	0.49
6:Ak:69:GLU:OE1	6:Ak:82:ARG:NH2	2.46	0.49
6:Al:6:LEU:HD13	6:Ar:407:VAL:HG11	1.94	0.49
6:As:427:ASN:OD1	6:Ay:414:ARG:NH1	2.45	0.49
5:C:188:ILE:HD13	5:C:194:LEU:HG	1.94	0.49
6:I:218:TRP:NE1	6:I:303:GLN:OE1	2.39	0.49
6:I:386:SER:HB3	6:N:322:PHE:HB3	1.95	0.49
6:N:92:ALA:HB2	6:N:126:LEU:HD11	1.93	0.49
5:U:87:GLN:HB2	5:U:220:LEU:HB2	1.94	0.49
5:a:103:PHE:HB2	5:a:115:THR:HG23	1.94	0.49
10:q:35:ARG:NH1	10:q:101:ARG:HD3	2.27	0.49
17:CF:253:ILE:HD13	17:CF:361:ILE:HB	1.93	0.49
17:CI:253:ILE:HD13	17:CI:361:ILE:HB	1.93	0.49
17:CS:253:ILE:HD13	17:CS:361:ILE:HB	1.93	0.49
17:Bp:253:ILE:HD13	17:Bp:361:ILE:HB	1.93	0.49
19:DC:139:ALA:HB1	19:DC:147:ARG:HG2	1.95	0.49
19:DK:139:ALA:HB1	19:DK:147:ARG:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Dd:139:ALA:HB1	19:Dd:147:ARG:HG2	1.94	0.49
19:Dd:172:TYR:HD1	19:Dd:189:ARG:HH11	1.58	0.49
19:Dh:172:TYR:HD1	19:Dh:189:ARG:HH11	1.58	0.49
19:Dm:169:ARG:HH11	19:Dm:207:ARG:HD2	1.78	0.49
19:Dq:139:ALA:HB1	19:Dq:147:ARG:HG2	1.95	0.49
19:Dt:172:TYR:HD1	19:Dt:189:ARG:HH11	1.58	0.49
7:Eq:161:LEU:HD21	7:Eq:165:ARG:HH21	1.76	0.49
2:1:195:PHE:HB3	2:1:213:VAL:HG22	1.95	0.49
2:2:116:MET:HE3	2:2:134:ILE:HG23	1.94	0.49
3:5:15:TRP:CE2	7:EZ:148:PHE:HB3	2.48	0.49
6:A1:59:GLN:CD	5:V:219:MET:HE2	2.36	0.49
6:Ad:322:PHE:HB3	6:M:386:SER:HB3	1.95	0.49
6:Am:117:MET:HE3	6:Am:125:LEU:HD23	1.94	0.49
6:As:109:PHE:CE1	6:As:119:THR:HG22	2.45	0.49
6:Av:59:GLN:NE2	5:P:216:ARG:HH21	2.10	0.49
6:Aw:223:THR:HG22	6:Aw:232:PRO:HA	1.95	0.49
6:Az:59:GLN:OE1	5:U:219:MET:HE1	2.12	0.49
6:D:37:GLU:HG2	6:I:29:TYR:HE2	1.77	0.49
6:O:106:ASN:H	6:O:106:ASN:HD22	1.60	0.49
5:P:258:VAL:HG13	5:P:262:LEU:HD22	1.94	0.49
5:a:154:THR:HG23	5:a:214:GLU:HB3	1.94	0.49
11:v:39:LYS:HD3	23:v:201:XKP:O4	2.12	0.49
18:CG:244:LEU:HD13	18:CG:284:VAL:HG11	1.95	0.49
17:CX:64:LEU:HD12	17:CX:71:MET:HE2	1.93	0.49
17:BB:253:ILE:HD13	17:BB:361:ILE:HB	1.94	0.49
17:BG:180:ARG:HH22	13:BM:188:ASP:CG	2.13	0.49
17:BL:253:ILE:HD13	17:BL:361:ILE:HB	1.94	0.49
17:Ba:180:ARG:HH22	13:Bg:188:ASP:CG	2.13	0.49
18:DD:244:LEU:HD13	18:DD:284:VAL:HG11	1.94	0.49
19:Di:169:ARG:HH11	19:Di:207:ARG:HD2	1.78	0.49
19:Dl:139:ALA:HB1	19:Dl:147:ARG:HG2	1.94	0.49
19:Dl:172:TYR:HD1	19:Dl:189:ARG:HH11	1.58	0.49
19:Du:139:ALA:HB1	19:Du:147:ARG:HG2	1.95	0.49
7:EU:430:LEU:HA	7:EU:433:THR:HB	1.94	0.49
7:Ef:222:VAL:HG23	7:Ef:237:ILE:HB	1.95	0.49
2:2:112:ILE:HG23	2:2:283:LEU:HD23	1.94	0.49
6:A3:385:GLY:O	5:Q:163:ARG:CB	2.61	0.49
5:AY:48:ASN:HD21	5:AY:51:GLN:HE21	1.60	0.49
5:Aa:29:ALA:HA	5:Aa:225:VAL:HG21	1.94	0.49
6:Aj:109:PHE:HE1	6:Aj:119:THR:HG22	1.76	0.49
6:An:6:LEU:HD13	6:At:407:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:47:PHE:O	5:Q:92:ALA:HB3	2.12	0.49
6:At:40:ASP:H	6:Ay:366:THR:HG23	1.77	0.49
5:Q:166:GLN:HG2	5:Q:167:ASP:H	1.77	0.49
5:S:258:VAL:HG13	5:S:262:LEU:HD22	1.93	0.49
5:T:50:ASN:HB2	5:T:66:LEU:H	1.78	0.49
9:l:120:GLN:HE22	10:p:247:ARG:HG2	1.77	0.49
10:q:40:GLN:NE2	10:q:60:GLU:OE2	2.40	0.49
14:CC:163:GLY:HA3	14:CP:245:MET:O	2.13	0.49
18:CG:267:ARG:NH1	19:DC:105:GLN:OE1	2.46	0.49
14:CP:133:MET:CG	14:CU:157:ASN:HD21	2.26	0.49
17:CS:64:LEU:HD12	17:CS:71:MET:HE2	1.93	0.49
13:CT:362:ASN:ND2	18:DI:89:ILE:HD11	2.12	0.49
13:Cs:72:GLU:HB2	16:Cv:6:PRO:HA	1.92	0.49
14:B2:245:MET:O	14:Br:163:GLY:HA3	2.13	0.49
14:Bc:163:GLY:HA3	14:Bm:245:MET:O	2.13	0.49
14:Bh:163:GLY:HA3	14:Br:245:MET:O	2.13	0.49
14:Bm:163:GLY:HA3	14:Bw:245:MET:O	2.13	0.49
19:DZ:172:TYR:HD1	19:DZ:189:ARG:HH11	1.58	0.49
18:Db:100:HIS:O	18:Db:133:ARG:NH2	2.38	0.49
7:EL:324:GLU:OE2	7:EL:326:TYR:OH	2.26	0.49
7:EZ:172:GLU:OE2	7:EZ:179:LYS:HA	2.12	0.49
7:Eb:203:VAL:HG13	7:Eb:239:VAL:HG22	1.93	0.49
7:Eh:220:SER:HB2	7:Ei:240:THR:HG21	1.93	0.49
7:El:173:GLU:OE2	7:Em:181:ARG:NH1	2.38	0.49
7:Eo:176:GLN:OE1	7:Eo:176:GLN:N	2.45	0.49
7:Ey:430:LEU:HA	7:Ey:433:THR:HB	1.94	0.49
7:Ez:430:LEU:HA	7:Ez:433:THR:HB	1.94	0.49
7:E1:324:GLU:OE2	7:E1:326:TYR:OH	2.26	0.49
5:AY:91:ASN:HD22	5:AY:92:ALA:N	2.11	0.49
5:AY:238:GLN:NE2	6:Ay:428:GLN:NE2	2.47	0.49
6:Aq:82:ARG:HH11	6:Aq:396:GLU:HG2	1.76	0.49
6:Aq:151:PHE:CE2	6:Aq:344:VAL:HG21	2.48	0.49
6:Az:33:GLU:HB3	6:Az:400:ILE:HG22	1.93	0.49
5:B:96:MET:HG3	5:B:221:GLU:HB2	1.95	0.49
6:K:327:ASP:N	6:K:327:ASP:OD1	2.44	0.49
5:R:36:LYS:HB3	5:R:225:VAL:HG12	1.94	0.49
2:z:142:THR:HA	2:z:145:VAL:HG22	1.93	0.49
14:CU:227:ASN:O	14:CZ:178:THR:OG1	2.29	0.49
14:CZ:163:GLY:HA3	14:Cj:245:MET:O	2.13	0.49
14:Co:163:GLY:HA3	14:Cy:245:MET:O	2.13	0.49
17:Cr:253:ILE:HD13	17:Cr:361:ILE:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cx:72:GLU:HB2	16:C1:6:PRO:HA	1.92	0.49
14:Cy:133:MET:CG	14:C4:157:ASN:HD21	2.26	0.49
13:BC:148:ASP:OD2	13:BC:256:THR:OG1	2.28	0.49
18:DD:185:LEU:HB3	18:DD:198:SER:HB3	1.93	0.49
18:DE:100:HIS:O	18:DE:133:ARG:NH2	2.38	0.49
18:DH:100:HIS:O	18:DH:133:ARG:NH2	2.38	0.49
19:Di:139:ALA:HB1	19:Di:147:ARG:HG2	1.95	0.49
18:Dk:93:PRO:HD2	18:Dk:96:ARG:HD2	1.93	0.49
19:Dm:139:ALA:HB1	19:Dm:147:ARG:HG2	1.95	0.49
18:Do:93:PRO:HD2	18:Do:96:ARG:HD2	1.93	0.49
18:Ds:93:PRO:HD2	18:Ds:96:ARG:HD2	1.93	0.49
18:Dw:93:PRO:HD2	18:Dw:96:ARG:HD2	1.93	0.49
7:EH:430:LEU:HA	7:EH:433:THR:HB	1.94	0.49
7:EI:430:LEU:HA	7:EI:433:THR:HB	1.94	0.49
7:EX:150:VAL:HG12	7:EX:154:LEU:HD23	1.94	0.49
7:EX:217:GLU:OE1	7:Eb:244:GLY:HA3	2.12	0.49
7:Ec:187:PRO:HB3	7:Ec:197:GLN:HB2	1.94	0.49
7:Ej:201:ALA:HB3	7:Ej:237:ILE:HG13	1.93	0.49
7:Eq:196:ASN:N	7:Eq:196:ASN:OD1	2.44	0.49
6:Ab:365:GLY:HA2	6:K:39:ALA:HB1	1.93	0.49
6:Af:151:PHE:CE2	6:Af:344:VAL:HG21	2.48	0.49
6:Ai:38:PHE:HB2	6:An:28:THR:HG22	1.95	0.49
6:F:172:LEU:HB3	6:F:212:GLN:HB2	1.94	0.49
6:H:40:ASP:H	6:M:366:THR:HG23	1.77	0.49
5:U:188:ILE:HD13	5:U:194:LEU:HG	1.94	0.49
5:Z:1:MET:HE2	5:Z:5:LEU:HD22	1.94	0.49
9:k:133:LEU:HD23	11:r:71:MET:HE3	1.95	0.49
11:u:71:MET:O	11:u:75:ASN:ND2	2.28	0.49
14:B8:245:MET:O	14:Bw:163:GLY:HA3	2.13	0.49
14:CU:163:GLY:HA3	14:Ce:245:MET:O	2.13	0.49
14:Cj:227:ASN:O	14:Co:178:THR:OG1	2.29	0.49
17:Cw:253:ILE:HD13	17:Cw:361:ILE:HB	1.94	0.49
13:Cx:362:ASN:ND2	18:DU:89:ILE:HD11	2.12	0.49
17:C2:253:ILE:HD13	17:C2:361:ILE:HB	1.93	0.49
17:BB:180:ARG:HH22	13:BH:188:ASP:CG	2.13	0.49
17:BL:64:LEU:HD12	17:BL:71:MET:HE2	1.93	0.49
13:Bg:148:ASP:OD2	13:Bg:256:THR:OG1	2.28	0.49
17:Bz:253:ILE:HD13	17:Bz:361:ILE:HB	1.94	0.49
18:DD:267:ARG:NH1	19:DG:105:GLN:OE1	2.46	0.49
18:DM:256:ASP:OD1	18:DM:256:ASP:N	2.32	0.49
18:DP:112:GLN:HE22	18:DQ:67:LYS:HA	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DS:139:ALA:HB1	19:DS:147:ARG:HG2	1.95	0.49
18:DT:112:GLN:HE22	18:DU:67:LYS:HA	1.78	0.49
19:DV:139:ALA:HB1	19:DV:147:ARG:HG2	1.94	0.49
18:DX:112:GLN:HE22	18:DY:67:LYS:HA	1.78	0.49
18:Dr:112:GLN:HE22	18:Ds:67:LYS:HA	1.78	0.49
18:Dv:244:LEU:HD13	18:Dv:284:VAL:HG11	1.94	0.49
19:Dy:139:ALA:HB1	19:Dy:147:ARG:HG2	1.95	0.49
7:D1:430:LEU:HA	7:D1:433:THR:HB	1.94	0.49
7:EH:299:ASP:O	7:EH:389:GLY:HA2	2.13	0.49
7:EZ:222:VAL:HG23	7:EZ:237:ILE:HB	1.95	0.49
7:E5:299:ASP:O	7:E5:389:GLY:HA2	2.13	0.49
5:A:226:ASN:HB3	5:A:229:GLU:HB3	1.95	0.49
5:AQ:129:VAL:HG12	5:AQ:136:PRO:HA	1.94	0.49
5:AW:101:GLY:HA3	5:AW:176:ILE:HD12	1.93	0.49
5:AY:187:PRO:HB3	6:Ay:42:TYR:CE1	2.47	0.49
5:AY:196:THR:O	5:Y:166:GLN:NE2	2.46	0.49
6:Ab:223:THR:HG22	6:Ab:232:PRO:HA	1.95	0.49
6:Ac:413:GLN:HG3	6:L:429:LEU:HD21	1.93	0.49
6:Ad:39:ALA:HB1	6:Ai:365:GLY:HA2	1.93	0.49
6:Ag:130:VAL:HG12	6:Ag:137:VAL:HA	1.94	0.49
6:Ai:33:GLU:HB3	6:Ai:400:ILE:HG22	1.94	0.49
6:Aj:168:ALA:O	6:Aj:210:LYS:NZ	2.43	0.49
6:Aj:433:ILE:HD11	6:Ao:416:PHE:HZ	1.78	0.49
6:An:433:ILE:HD11	6:As:416:PHE:CZ	2.48	0.49
6:Ay:276:PRO:HA	6:Ay:282:PRO:HG3	1.95	0.49
5:B:46:TYR:HB2	10:o:178:THR:HA	1.93	0.49
6:E:174:ASP:HB3	6:E:177:GLN:HB2	1.95	0.49
5:P:91:ASN:HD22	5:P:92:ALA:N	2.11	0.49
14:A9:186:ALA:HB3	14:BD:71:PRO:HG2	1.95	0.49
17:C7:253:ILE:HD13	17:C7:361:ILE:HB	1.93	0.49
17:Bf:253:ILE:HD13	17:Bf:361:ILE:HB	1.93	0.49
17:Bk:253:ILE:HD13	17:Bk:361:ILE:HB	1.93	0.49
19:DG:139:ALA:HB1	19:DG:147:ARG:HG2	1.95	0.49
18:DH:244:LEU:HD13	18:DH:284:VAL:HG11	1.95	0.49
18:DL:112:GLN:HE22	18:DM:67:LYS:HA	1.78	0.49
19:De:169:ARG:HH11	19:De:207:ARG:HD2	1.78	0.49
18:Df:116:TYR:CD1	19:Dh:199:ASN:HB3	2.48	0.49
19:Dt:38:LEU:HD11	19:Dt:77:LEU:HD22	1.95	0.49
7:EU:299:ASP:O	7:EU:389:GLY:HA2	2.13	0.49
7:EY:200:SER:OG	7:EY:201:ALA:N	2.45	0.49
7:Eh:176:GLN:O	7:Eh:208:SER:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Es:241:ASP:OD2	7:Es:245:ARG:NH1	2.45	0.49
7:E1:430:LEU:HA	7:E1:433:THR:HB	1.94	0.49
5:A:239:ARG:NH1	5:AX:252:ASP:OD1	2.44	0.49
5:A:255:MET:HE3	10:o:223:ARG:HG3	1.94	0.49
6:A1:409:LEU:HD21	6:Av:422:SER:HA	1.95	0.49
5:AU:255:MET:HE3	5:C:239:ARG:HG3	1.94	0.49
5:AV:232:VAL:HG11	5:Y:9:LYS:HG3	1.95	0.49
5:AX:185:LEU:HB3	5:AX:193:TYR:HB3	1.95	0.49
6:Ab:129:GLN:HB2	6:Ab:143:GLN:NE2	2.27	0.49
6:Ap:69:GLU:OE1	6:Ap:82:ARG:NH2	2.45	0.49
6:Ar:174:ASP:HB3	6:Ar:177:GLN:HB2	1.95	0.49
6:Ay:42:TYR:HE2	6:Ay:55:GLY:HA3	1.77	0.49
6:N:73:ILE:HD13	6:N:397:GLN:HE21	1.77	0.49
8:f:33:ALA:O	8:f:92:ASN:ND2	2.45	0.49
10:p:200:GLN:NE2	10:p:201:THR:O	2.45	0.49
17:CA:253:ILE:HD13	17:CA:361:ILE:HB	1.94	0.49
13:Cx:148:ASP:OD2	13:Cx:256:THR:OG1	2.28	0.49
17:B5:253:ILE:HD13	17:B5:361:ILE:HB	1.94	0.49
14:BI:163:GLY:HA3	14:BS:245:MET:O	2.13	0.49
14:BN:227:ASN:O	14:BS:178:THR:OG1	2.29	0.49
14:BX:186:ALA:HB3	14:Bc:71:PRO:HG2	1.95	0.49
19:DG:169:ARG:HH11	19:DG:207:ARG:HD2	1.78	0.49
18:DL:215:ILE:HA	18:DL:290:ARG:HA	1.95	0.49
19:DO:139:ALA:HB1	19:DO:147:ARG:HG2	1.95	0.49
18:DP:215:ILE:HA	18:DP:290:ARG:HA	1.95	0.49
19:Da:139:ALA:HB1	19:Da:147:ARG:HG2	1.95	0.49
19:Dh:38:LEU:HD11	19:Dh:77:LEU:HD22	1.95	0.49
18:Dj:116:TYR:CD1	19:Dl:199:ASN:HB3	2.48	0.49
19:Dl:38:LEU:HD11	19:Dl:77:LEU:HD22	1.95	0.49
18:Dn:112:GLN:HE22	18:Do:67:LYS:HA	1.78	0.49
18:Dv:267:ARG:NH1	19:Dy:105:GLN:OE1	2.46	0.49
7:D1:299:ASP:O	7:D1:389:GLY:HA2	2.13	0.49
7:D2:430:LEU:HA	7:D2:433:THR:HB	1.94	0.49
7:EX:246:LEU:HG	7:EY:220:SER:HA	1.95	0.49
7:Eb:146:MET:HB3	7:Eb:150:VAL:HG21	1.94	0.49
7:Es:207:LEU:N	7:Es:242:GLN:OE1	2.46	0.49
7:E3:299:ASP:O	7:E3:389:GLY:HA2	2.13	0.49
1:0:66:LYS:HD3	1:0:88:ARG:HE	1.78	0.49
2:1:184:LEU:HD11	2:1:207:GLU:HA	1.95	0.49
6:A2:196:ASP:OD1	6:A2:200:GLN:N	2.39	0.49
6:A3:44:ASN:HD21	6:A3:53:THR:HG23	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:402:MET:HB2	6:J:430:GLN:HE21	1.77	0.49
6:Aj:397:GLN:HG3	6:M:3:TYR:CZ	2.48	0.49
6:Au:126:LEU:HD13	6:Au:142:PRO:HB2	1.94	0.49
5:C:31:THR:OG1	5:C:34:TYR:HB2	2.12	0.49
6:G:174:ASP:HB3	6:G:177:GLN:HB2	1.95	0.49
6:I:130:VAL:HG12	6:I:137:VAL:HA	1.95	0.49
6:N:105:ARG:NH1	6:N:396:GLU:OE2	2.45	0.49
5:S:188:ILE:HD13	5:S:194:LEU:HG	1.95	0.49
5:T:115:THR:HB	5:T:192:LEU:HD23	1.95	0.49
5:V:50:ASN:HB2	5:V:66:LEU:H	1.78	0.49
2:y:206:PRO:HD2	7:Ep:194:ARG:NH1	2.27	0.49
14:CC:245:MET:O	14:B2:163:GLY:HA3	2.13	0.49
17:CF:87:VAL:HG21	17:CF:122:THR:HG21	1.95	0.49
18:CG:58:ALA:HB1	18:CG:72:PHE:HE1	1.78	0.49
13:CJ:90:VAL:HA	13:CJ:104:ILE:HG22	1.95	0.49
14:A4:186:ALA:HB3	14:A9:71:PRO:HG2	1.95	0.49
14:CK:163:GLY:HA3	14:CU:245:MET:O	2.13	0.49
14:CZ:133:MET:CG	14:Ce:157:ASN:HD21	2.26	0.49
14:Ce:163:GLY:HA3	14:Co:245:MET:O	2.13	0.49
14:Cj:163:GLY:HA3	14:Ct:245:MET:O	2.13	0.49
14:Ct:163:GLY:HA3	14:C4:245:MET:O	2.13	0.49
13:C8:90:VAL:HA	13:C8:104:ILE:HG22	1.95	0.49
13:B1:188:ASP:CG	17:Bu:180:ARG:HH22	2.13	0.49
14:BX:163:GLY:HA3	14:Bh:245:MET:O	2.13	0.49
14:Bc:186:ALA:HB3	14:Bh:71:PRO:HG2	1.95	0.49
18:DD:58:ALA:HB1	18:DD:72:PHE:HE1	1.78	0.49
18:Db:267:ARG:NH1	19:De:105:GLN:OE1	2.46	0.49
19:De:139:ALA:HB1	19:De:147:ARG:HG2	1.95	0.49
19:Dp:38:LEU:HD11	19:Dp:77:LEU:HD22	1.95	0.49
19:Dq:169:ARG:HH11	19:Dq:207:ARG:HD2	1.78	0.49
18:Dv:100:HIS:O	18:Dv:133:ARG:NH2	2.39	0.49
18:Dv:112:GLN:HE22	18:Dw:67:LYS:HA	1.78	0.49
19:Dx:38:LEU:HD11	19:Dx:77:LEU:HD22	1.95	0.49
7:Ef:210:GLY:O	7:Ef:211:THR:OG1	2.30	0.49
7:Eu:299:ASP:O	7:Eu:389:GLY:HA2	2.13	0.49
2:2:253:MET:HA	2:z:249:MET:HE3	1.95	0.48
6:A3:42:TYR:CE1	6:A3:55:GLY:HA2	2.48	0.48
5:AX:191:ASN:ND2	5:Y:43:ASP:OD1	2.46	0.48
5:Aa:227:VAL:HG21	6:Au:430:GLN:HE21	1.78	0.48
6:Aj:223:THR:HG22	6:Aj:232:PRO:HA	1.94	0.48
6:Ap:151:PHE:CE2	6:Ap:344:VAL:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Au:109:PHE:CE1	6:Au:119:THR:HG22	2.48	0.48
6:D:401:ASP:O	6:D:405:GLU:HG2	2.13	0.48
6:D:430:GLN:HE21	6:O:402:MET:HB2	1.78	0.48
6:H:327:ASP:N	6:H:327:ASP:OD1	2.45	0.48
5:Z:33:GLY:N	5:Z:221:GLU:O	2.45	0.48
10:n:40:GLN:NE2	10:n:60:GLU:OE2	2.39	0.48
2:y:82:ASP:OD1	2:y:82:ASP:N	2.45	0.48
13:CB:157:LEU:O	13:CB:161:SER:OG	2.27	0.48
13:A8:90:VAL:HA	13:A8:104:ILE:HG22	1.95	0.48
14:A9:245:MET:O	14:C9:163:GLY:HA3	2.13	0.48
17:CN:87:VAL:HG21	17:CN:122:THR:HG21	1.95	0.48
17:CS:87:VAL:HG21	17:CS:122:THR:HG21	1.95	0.48
13:Cd:90:VAL:HA	13:Cd:104:ILE:HG22	1.95	0.48
17:Cw:180:ARG:HH22	13:C3:188:ASP:CG	2.13	0.48
14:BD:186:ALA:HB3	14:BI:71:PRO:HG2	1.95	0.48
17:BG:253:ILE:HD13	17:BG:361:ILE:HB	1.93	0.48
14:BN:163:GLY:HA3	14:BX:245:MET:O	2.13	0.48
13:Bb:350:TYR:OH	13:Bb:355:GLU:OE2	2.26	0.48
13:Bg:90:VAL:HA	13:Bg:104:ILE:HG22	1.95	0.48
19:DB:38:LEU:HD11	19:DB:77:LEU:HD22	1.95	0.48
19:DF:139:ALA:HB1	19:DF:147:ARG:HG2	1.94	0.48
18:DH:116:TYR:CD1	19:DJ:199:ASN:HB3	2.48	0.48
18:DH:215:ILE:HA	18:DH:290:ARG:HA	1.95	0.48
19:DW:139:ALA:HB1	19:DW:147:ARG:HG2	1.95	0.48
18:DX:267:ARG:NH1	19:Da:105:GLN:OE1	2.46	0.48
19:DZ:139:ALA:HB1	19:DZ:147:ARG:HG2	1.94	0.48
18:Db:116:TYR:CD1	19:Dd:199:ASN:HB3	2.48	0.48
19:Dd:38:LEU:HD11	19:Dd:77:LEU:HD22	1.95	0.48
18:Dj:112:GLN:HE22	18:Dk:67:LYS:HA	1.78	0.48
18:Dn:215:ILE:HA	18:Dn:290:ARG:HA	1.95	0.48
19:Dp:139:ALA:HB1	19:Dp:147:ARG:HG2	1.94	0.48
19:Dp:172:TYR:HD1	19:Dp:189:ARG:HH11	1.59	0.48
7:EP:299:ASP:O	7:EP:389:GLY:HA2	2.13	0.48
7:EY:201:ALA:O	7:EZ:227:SER:OG	2.21	0.48
7:El:218:VAL:HG23	7:El:239:VAL:HG11	1.95	0.48
7:Ex:299:ASP:O	7:Ex:389:GLY:HA2	2.13	0.48
7:E1:299:ASP:O	7:E1:389:GLY:HA2	2.13	0.48
7:E4:430:LEU:HA	7:E4:433:THR:HB	1.94	0.48
7:E5:430:LEU:HA	7:E5:433:THR:HB	1.94	0.48
1:0:114:GLY:HA2	1:0:134:LYS:HD2	1.95	0.48
5:A:251:VAL:HG22	10:n:19:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AT:109:ASP:OD1	5:AT:109:ASP:N	2.45	0.48
5:AV:16:GLN:HE22	5:B:226:ASN:HD21	1.60	0.48
5:AW:33:GLY:N	5:AW:221:GLU:O	2.40	0.48
5:AX:86:ALA:HB2	5:S:45:PHE:HE1	1.77	0.48
5:AY:82:THR:OG1	6:As:48:THR:HG22	2.12	0.48
5:Aa:188:ILE:HD13	5:Aa:194:LEU:HG	1.95	0.48
6:Ab:57:GLY:H	6:Ag:21:ASN:ND2	2.11	0.48
6:Ab:117:MET:HE3	6:Ab:125:LEU:HD23	1.94	0.48
6:Ag:68:HIS:CD2	6:Ag:399:ASN:HB2	2.48	0.48
6:Ai:131:ASP:OD1	6:Ai:131:ASP:N	2.46	0.48
6:Ak:171:ASP:N	6:Ak:171:ASP:OD1	2.45	0.48
6:At:44:ASN:OD1	6:At:44:ASN:N	2.43	0.48
6:Az:109:PHE:HE1	6:Az:119:THR:HG22	1.78	0.48
6:G:40:ASP:H	6:L:366:THR:HG23	1.77	0.48
5:R:236:GLU:HG3	5:U:1:MET:HG2	1.95	0.48
9:g:61:ASP:N	9:g:61:ASP:OD1	2.45	0.48
14:B8:163:GLY:HA3	14:CK:245:MET:O	2.13	0.48
17:CA:87:VAL:HG21	17:CA:122:THR:HG21	1.95	0.48
17:CX:87:VAL:HG21	17:CX:122:THR:HG21	1.95	0.48
17:Cc:87:VAL:HG21	17:Cc:122:THR:HG21	1.95	0.48
13:B6:157:LEU:O	13:B6:161:SER:OG	2.27	0.48
13:BC:90:VAL:HA	13:BC:104:ILE:HG22	1.95	0.48
14:BS:186:ALA:HB3	14:BX:71:PRO:HG2	1.95	0.48
13:Bb:90:VAL:HA	13:Bb:104:ILE:HG22	1.95	0.48
19:DC:169:ARG:HH11	19:DC:207:ARG:HD2	1.78	0.48
19:DK:169:ARG:HH11	19:DK:207:ARG:HD2	1.78	0.48
18:DT:215:ILE:HA	18:DT:290:ARG:HA	1.95	0.48
18:Dn:116:TYR:CD1	19:Dp:199:ASN:HB3	2.48	0.48
7:D4:430:LEU:HA	7:D4:433:THR:HB	1.94	0.48
7:EJ:299:ASP:O	7:EJ:389:GLY:HA2	2.13	0.48
7:EM:299:ASP:O	7:EM:389:GLY:HA2	2.13	0.48
7:ER:299:ASP:O	7:ER:389:GLY:HA2	2.13	0.48
7:ES:299:ASP:O	7:ES:389:GLY:HA2	2.13	0.48
7:EV:299:ASP:O	7:EV:389:GLY:HA2	2.13	0.48
7:Eb:218:VAL:HG21	7:Eb:247:LEU:HB3	1.94	0.48
7:Ey:299:ASP:O	7:Ey:389:GLY:HA2	2.13	0.48
7:E2:324:GLU:OE2	7:E2:326:TYR:OH	2.26	0.48
7:E2:430:LEU:HA	7:E2:433:THR:HB	1.94	0.48
2:3:206:PRO:HG3	7:Et:192:PHE:CD1	2.47	0.48
1:9:187:TRP:HH2	1:9:197:VAL:HG11	1.78	0.48
6:A1:427:ASN:ND2	5:P:235:ILE:HG22	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A2:35:ARG:NH2	5:P:119:GLN:HE21	2.11	0.48
5:AP:123:ASN:ND2	5:AP:127:THR:OG1	2.46	0.48
6:Ab:84:SER:OG	6:Ab:391:ASN:ND2	2.46	0.48
6:Ab:130:VAL:HG12	6:Ab:137:VAL:HA	1.95	0.48
6:Ae:239:ASP:OD1	6:Ae:239:ASP:N	2.28	0.48
6:Af:101:ASN:OD1	6:Af:377:LYS:NZ	2.46	0.48
6:Ah:93:LYS:NZ	6:Ah:123:GLU:OE2	2.31	0.48
6:E:276:PRO:HA	6:E:282:PRO:HG3	1.95	0.48
6:J:93:LYS:NZ	6:J:123:GLU:OE2	2.35	0.48
5:Q:16:GLN:NE2	5:X:228:THR:OG1	2.47	0.48
5:Q:123:ASN:H	5:Q:123:ASN:HD22	1.59	0.48
5:S:103:PHE:HB2	5:S:115:THR:HG23	1.94	0.48
5:V:99:GLY:O	5:V:116:ARG:NH2	2.47	0.48
9:h:75:LYS:O	9:h:98:ASN:ND2	2.43	0.48
10:p:22:ARG:HE	10:p:39:ALA:HB3	1.78	0.48
2:y:144:PHE:O	2:y:147:SER:OG	2.27	0.48
14:CP:163:GLY:HA3	14:CZ:245:MET:O	2.13	0.48
13:Ci:90:VAL:HA	13:Ci:104:ILE:HG22	1.95	0.48
18:DD:116:TYR:CD1	19:DF:199:ASN:HB3	2.48	0.48
19:DO:165:GLU:HG3	19:DO:204:ALA:HB2	1.96	0.48
19:DS:169:ARG:HH11	19:DS:207:ARG:HD2	1.78	0.48
18:Dj:215:ILE:HA	18:Dj:290:ARG:HA	1.95	0.48
7:D3:299:ASP:O	7:D3:389:GLY:HA2	2.13	0.48
7:D5:430:LEU:HA	7:D5:433:THR:HB	1.94	0.48
7:EK:299:ASP:O	7:EK:389:GLY:HA2	2.13	0.48
7:EO:299:ASP:O	7:EO:389:GLY:HA2	2.13	0.48
7:EX:196:ASN:OD1	7:EX:197:GLN:N	2.46	0.48
7:Et:173:GLU:OE1	7:Et:173:GLU:N	2.46	0.48
5:A:18:ASN:HB2	5:A:41:PHE:HZ	1.79	0.48
6:A3:434:LEU:HD11	5:S:243:MET:SD	2.52	0.48
5:AR:176:ILE:HD11	5:AR:212:LEU:HB3	1.95	0.48
5:AY:114:TYR:HE2	5:AY:195:PRO:HD3	1.77	0.48
6:Ah:372:GLN:HB2	6:As:343:ASN:HD22	1.79	0.48
6:Ai:109:PHE:HE1	6:Ai:119:THR:HG22	1.79	0.48
6:Ai:223:THR:HG22	6:Ai:232:PRO:HA	1.96	0.48
6:Au:174:ASP:HB3	6:Au:177:GLN:HB2	1.95	0.48
6:Ay:105:ARG:NH1	6:Ay:396:GLU:OE1	2.46	0.48
5:B:9:LYS:HG3	10:m:216:THR:HG21	1.94	0.48
5:B:101:GLY:HA3	5:B:176:ILE:HD12	1.95	0.48
6:D:151:PHE:CE2	6:D:344:VAL:HG21	2.47	0.48
5:V:115:THR:HB	5:V:192:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c:97:ASP:OD1	9:i:115:TYR:OH	2.32	0.48
10:m:35:ARG:NH1	10:m:101:ARG:HD3	2.29	0.48
18:CG:112:GLN:HE22	18:DA:67:LYS:HA	1.78	0.48
18:CG:116:TYR:CD1	19:DB:199:ASN:HB3	2.48	0.48
14:A4:163:GLY:HA3	14:BD:245:MET:O	2.13	0.48
17:B5:87:VAL:HG21	17:B5:122:THR:HG21	1.95	0.48
13:BW:90:VAL:HA	13:BW:104:ILE:HG22	1.95	0.48
18:DH:58:ALA:HB1	18:DH:72:PHE:HE1	1.78	0.48
18:DH:267:ARG:NH1	19:DK:105:GLN:OE1	2.46	0.48
19:DO:169:ARG:HH11	19:DO:207:ARG:HD2	1.78	0.48
18:DT:267:ARG:NH1	19:DW:105:GLN:OE1	2.46	0.48
18:DX:116:TYR:CD1	19:DZ:199:ASN:HB3	2.48	0.48
19:Da:165:GLU:HG3	19:Da:204:ALA:HB2	1.96	0.48
18:Db:112:GLN:HE22	18:Dc:67:LYS:HA	1.78	0.48
18:Dj:267:ARG:NH1	19:Dm:105:GLN:OE1	2.46	0.48
18:Dr:215:ILE:HA	18:Dr:290:ARG:HA	1.95	0.48
18:Dr:244:LEU:HD13	18:Dr:284:VAL:HG11	1.94	0.48
18:Dv:58:ALA:HB1	18:Dv:72:PHE:HE1	1.78	0.48
7:EG:299:ASP:O	7:EG:389:GLY:HA2	2.13	0.48
7:Ec:239:VAL:N	7:Ec:248:SER:OG	2.44	0.48
7:Ej:163:ARG:NH2	7:Ek:184:LEU:O	2.45	0.48
7:Ek:176:GLN:O	7:Ek:208:SER:N	2.47	0.48
7:Ez:299:ASP:O	7:Ez:389:GLY:HA2	2.13	0.48
2:2:185:LYS:HG3	7:Ed:194:ARG:HH12	1.78	0.48
4:8:183:THR:HG22	4:8:187:MET:HE3	1.95	0.48
5:AR:12:LEU:HD13	10:n:212:VAL:HG11	1.96	0.48
5:AZ:226:ASN:CG	6:Ay:13:GLN:HE22	2.22	0.48
6:Ae:196:ASP:OD1	6:Ae:200:GLN:N	2.41	0.48
6:Ag:129:GLN:HB2	6:Ag:143:GLN:HE21	1.79	0.48
6:Av:171:ASP:N	6:Av:171:ASP:OD1	2.44	0.48
6:F:39:ALA:HB1	6:K:365:GLY:HA2	1.94	0.48
9:i:84:ASP:OD1	9:i:84:ASP:N	2.32	0.48
2:z:111:ARG:NE	2:z:222:GLU:OE1	2.44	0.48
13:Cn:90:VAL:HA	13:Cn:104:ILE:HG22	1.95	0.48
14:Co:186:ALA:HB3	14:Ct:71:PRO:HG2	1.95	0.48
14:Ct:186:ALA:HB3	14:Cy:71:PRO:HG2	1.95	0.48
13:C3:90:VAL:HA	13:C3:104:ILE:HG22	1.95	0.48
14:BD:163:GLY:HA3	14:BN:245:MET:O	2.13	0.48
18:DD:215:ILE:HA	18:DD:290:ARG:HA	1.95	0.48
18:DL:244:LEU:HD13	18:DL:284:VAL:HG11	1.95	0.48
18:DP:267:ARG:NH1	19:DS:105:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DS:165:GLU:HG3	19:DS:204:ALA:HB2	1.96	0.48
18:DT:58:ALA:HB1	18:DT:72:PHE:HE1	1.78	0.48
18:DT:116:TYR:CD1	19:DV:199:ASN:HB3	2.48	0.48
19:DW:165:GLU:HG3	19:DW:204:ALA:HB2	1.96	0.48
18:DX:58:ALA:HB1	18:DX:72:PHE:HE1	1.78	0.48
19:DZ:38:LEU:HD11	19:DZ:77:LEU:HD22	1.95	0.48
19:Dy:169:ARG:HH11	19:Dy:207:ARG:HD2	1.77	0.48
7:D4:299:ASP:O	7:D4:389:GLY:HA2	2.13	0.48
20:D6:10:HIS:CB	7:E3:372:THR:HG22	2.40	0.48
20:D8:10:HIS:HA	7:EM:372:THR:HG21	1.96	0.48
7:EG:430:LEU:HA	7:EG:433:THR:HB	1.94	0.48
7:EX:218:VAL:HG21	7:EX:247:LEU:HB3	1.96	0.48
7:Ei:153:ARG:O	7:Ei:157:GLU:HG2	2.13	0.48
7:Em:167:LEU:O	7:Em:171:ILE:HG12	2.13	0.48
7:Eq:163:ARG:HA	7:Eq:166:GLN:HE21	1.78	0.48
1:0:41:ASN:ND2	7:AM:352:ASP:OD1	2.46	0.48
2:3:236:PRO:HB2	12:x:61:MET:HG2	1.95	0.48
6:A1:130:VAL:HG22	6:A1:347:GLY:HA2	1.96	0.48
5:AQ:104:GLN:NE2	5:AQ:175:THR:OG1	2.47	0.48
5:AZ:258:VAL:HG13	5:AZ:262:LEU:HD22	1.96	0.48
6:Ab:402:MET:HB2	6:E:430:GLN:HE21	1.78	0.48
6:Ad:40:ASP:H	6:Ai:366:THR:HG23	1.78	0.48
6:Ad:174:ASP:HB3	6:Ad:177:GLN:HB2	1.95	0.48
6:Ad:416:PHE:HZ	6:M:433:ILE:HD11	1.79	0.48
6:Ag:168:ALA:HA	6:Ag:303:GLN:HE21	1.79	0.48
6:Ah:343:ASN:HD22	6:K:372:GLN:HB2	1.78	0.48
6:Al:151:PHE:CE2	6:Al:344:VAL:HG21	2.49	0.48
6:Aq:33:GLU:HB3	6:Aq:400:ILE:HG22	1.95	0.48
6:Aq:422:SER:HA	6:Av:409:LEU:HD21	1.95	0.48
6:Ar:433:ILE:HD11	6:Aw:416:PHE:HZ	1.79	0.48
5:B:176:ILE:HD11	5:B:212:LEU:HB3	1.96	0.48
6:H:130:VAL:HG22	6:H:347:GLY:HA2	1.94	0.48
6:I:422:SER:HA	6:N:409:LEU:HD21	1.96	0.48
5:S:36:LYS:HB3	5:S:225:VAL:HG12	1.96	0.48
5:W:154:THR:HG23	5:W:214:GLU:HB3	1.94	0.48
12:x:49:PHE:HB3	12:x:96:VAL:HG22	1.95	0.48
2:y:183:MET:HE1	2:y:215:ILE:HG12	1.95	0.48
13:A8:362:ASN:HD22	18:Dc:89:ILE:CD1	2.15	0.48
13:CY:90:VAL:HA	13:CY:104:ILE:HG22	1.95	0.48
14:Cy:163:GLY:HA3	14:C9:245:MET:O	2.13	0.48
18:DA:49:VAL:HG22	18:DA:59:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B2:157:ASN:HD21	14:Bw:133:MET:CG	2.26	0.48
13:BH:90:VAL:HA	13:BH:104:ILE:HG22	1.95	0.48
14:BS:163:GLY:HA3	14:Bc:245:MET:O	2.13	0.48
14:Bh:186:ALA:HB3	14:Bm:71:PRO:HG2	1.95	0.48
13:Bl:90:VAL:HA	13:Bl:104:ILE:HG22	1.95	0.48
13:Bv:157:LEU:O	13:Bv:161:SER:OG	2.27	0.48
18:DE:256:ASP:OD1	18:DE:256:ASP:N	2.32	0.48
18:DL:116:TYR:CD1	19:DN:199:ASN:HB3	2.48	0.48
18:DP:116:TYR:CD1	19:DR:199:ASN:HB3	2.48	0.48
18:DX:244:LEU:HD13	18:DX:284:VAL:HG11	1.94	0.48
19:Da:169:ARG:HH11	19:Da:207:ARG:HD2	1.78	0.48
18:Dc:100:HIS:O	18:Dc:133:ARG:NH2	2.38	0.48
19:De:165:GLU:HG3	19:De:204:ALA:HB2	1.96	0.48
18:Df:100:HIS:O	18:Df:133:ARG:NH2	2.38	0.48
18:Df:112:GLN:HE22	18:Dg:67:LYS:HA	1.78	0.48
18:Df:244:LEU:HD13	18:Df:284:VAL:HG11	1.95	0.48
18:Df:267:ARG:NH1	19:Di:105:GLN:OE1	2.46	0.48
18:Dg:156:VAL:HG12	18:Dg:157:LEU:HG	1.96	0.48
19:Di:165:GLU:HG3	19:Di:204:ALA:HB2	1.96	0.48
18:Dr:267:ARG:NH1	19:Du:105:GLN:OE1	2.46	0.48
7:D2:299:ASP:O	7:D2:389:GLY:HA2	2.13	0.48
7:D5:299:ASP:O	7:D5:389:GLY:HA2	2.13	0.48
7:EQ:299:ASP:O	7:EQ:389:GLY:HA2	2.13	0.48
7:EW:299:ASP:O	7:EW:389:GLY:HA2	2.13	0.48
7:EY:172:GLU:OE2	7:EY:179:LYS:HA	2.14	0.48
7:EY:177:VAL:HA	7:EY:207:LEU:HA	1.96	0.48
7:Ev:299:ASP:O	7:Ev:389:GLY:HA2	2.13	0.48
1:0:31:THR:HG23	1:0:35:GLY:HA2	1.96	0.48
4:8:243:MET:HE2	7:Ej:152:GLN:HB2	1.96	0.48
6:A1:386:SER:HA	5:Aa:148:ILE:HG22	1.95	0.48
7:AL:353:VAL:HG21	9:h:71:VAL:HG11	1.94	0.48
5:AP:24:ASN:ND2	5:AP:34:TYR:OH	2.47	0.48
5:AQ:240:VAL:O	5:AQ:244:ASN:ND2	2.41	0.48
5:Aa:154:THR:HG23	5:Aa:214:GLU:HB3	1.95	0.48
5:Aa:258:VAL:HG13	5:Aa:262:LEU:HD22	1.94	0.48
6:Ah:151:PHE:CE2	6:Ah:344:VAL:HG21	2.49	0.48
6:Ai:93:LYS:NZ	6:Ai:123:GLU:OE2	2.36	0.48
6:E:187:ASN:OD1	6:E:210:LYS:N	2.45	0.48
6:O:151:PHE:CE2	6:O:344:VAL:HG21	2.48	0.48
5:R:226:ASN:HB3	5:R:229:GLU:HB2	1.96	0.48
5:X:129:VAL:HG12	5:X:136:PRO:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e:85:GLN:NE2	10:m:53:SER:OG	2.34	0.48
14:A4:71:PRO:HG2	14:C9:186:ALA:HB3	1.95	0.48
17:Ch:87:VAL:HG21	17:Ch:122:THR:HG21	1.95	0.48
17:B5:67:PHE:CD2	17:Bz:86:MET:HE1	2.49	0.48
13:B6:90:VAL:HA	13:B6:104:ILE:HG22	1.95	0.48
17:Bu:86:MET:HE1	17:Bz:67:PHE:CD2	2.49	0.48
18:DE:49:VAL:HG22	18:DE:59:VAL:HG22	1.96	0.48
19:DG:165:GLU:HG3	19:DG:204:ALA:HB2	1.96	0.48
19:DJ:38:LEU:HD11	19:DJ:77:LEU:HD22	1.95	0.48
19:DW:169:ARG:HH11	19:DW:207:ARG:HD2	1.78	0.48
18:DX:215:ILE:HA	18:DX:290:ARG:HA	1.95	0.48
18:Dv:116:TYR:CD1	19:Dx:199:ASN:HB3	2.48	0.48
18:Dw:49:VAL:HG22	18:Dw:59:VAL:HG22	1.96	0.48
7:ET:299:ASP:O	7:ET:389:GLY:HA2	2.13	0.48
7:EX:200:SER:OG	7:EY:227:SER:O	2.24	0.48
7:EY:236:ARG:HD3	7:EY:236:ARG:HA	1.65	0.48
7:Ep:171:ILE:HG22	7:Ep:177:VAL:HG11	1.95	0.48
7:E4:299:ASP:O	7:E4:389:GLY:HA2	2.13	0.48
5:AS:101:GLY:O	5:AS:116:ARG:NH1	2.46	0.48
5:AU:7:VAL:O	5:AU:10:THR:OG1	2.28	0.48
5:AX:19:ILE:HG23	5:AX:234:MET:HE1	1.96	0.48
6:Aq:430:GLN:CD	6:Aw:414:ARG:HD2	2.39	0.48
6:F:130:VAL:HG12	6:F:137:VAL:HA	1.95	0.48
5:T:104:GLN:NE2	5:T:177:THR:OG1	2.47	0.48
5:V:206:VAL:HG23	5:V:209:LEU:HB2	1.95	0.48
8:d:39:LYS:NZ	8:d:91:GLY:O	2.40	0.48
10:n:89:SER:HB3	10:n:122:LEU:HD12	1.95	0.48
14:B8:133:MET:CG	14:CC:157:ASN:HD21	2.26	0.48
14:A4:245:MET:O	14:C4:163:GLY:HA3	2.13	0.48
13:A8:148:ASP:OD2	13:A8:256:THR:OG1	2.28	0.48
17:CS:86:MET:HE1	17:CX:67:PHE:CD2	2.49	0.48
13:CT:157:LEU:O	13:CT:161:SER:OG	2.27	0.48
17:CX:86:MET:HE1	17:Cc:67:PHE:CD2	2.49	0.48
17:Cc:86:MET:HE1	17:Ch:67:PHE:CD2	2.49	0.48
17:Ch:180:ARG:HH22	13:Cn:188:ASP:CG	2.13	0.48
14:Cj:186:ALA:HB3	14:Co:71:PRO:HG2	1.95	0.48
14:Cy:186:ALA:HB3	14:C4:71:PRO:HG2	1.95	0.48
13:BW:85:VAL:HG12	13:BW:108:ILE:HG12	1.96	0.48
13:Bb:85:VAL:HG12	13:Bb:108:ILE:HG12	1.96	0.48
13:Bb:148:ASP:OD2	13:Bb:256:THR:OG1	2.28	0.48
17:Bk:86:MET:HE1	17:Bp:67:PHE:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bp:86:MET:HE1	17:Bu:67:PHE:CD2	2.49	0.48
17:Bz:87:VAL:HG21	17:Bz:122:THR:HG21	1.95	0.48
18:DH:112:GLN:HE22	18:DI:67:LYS:HA	1.78	0.48
19:DV:38:LEU:HD11	19:DV:77:LEU:HD22	1.95	0.48
18:Db:244:LEU:HD13	18:Db:284:VAL:HG11	1.95	0.48
18:Dc:156:VAL:HG12	18:Dc:157:LEU:HG	1.96	0.48
18:Df:215:ILE:HA	18:Df:290:ARG:HA	1.95	0.48
19:Dm:165:GLU:HG3	19:Dm:204:ALA:HB2	1.96	0.48
18:Ds:156:VAL:HG12	18:Ds:157:LEU:HG	1.96	0.48
19:Dt:139:ALA:HB1	19:Dt:147:ARG:HG2	1.94	0.48
7:Dz:299:ASP:O	7:Dz:389:GLY:HA2	2.13	0.48
7:Ef:163:ARG:NH2	7:Eg:183:LEU:HB3	2.27	0.48
7:E2:299:ASP:O	7:E2:389:GLY:HA2	2.13	0.48
1:0:119:LEU:O	1:0:122:THR:OG1	2.28	0.48
6:A1:109:PHE:HE1	6:A1:119:THR:HG22	1.79	0.48
5:AS:7:VAL:O	5:AS:10:THR:OG1	2.29	0.48
5:AV:24:ASN:ND2	5:AV:34:TYR:OH	2.47	0.48
5:AX:48:ASN:HD21	5:AX:51:GLN:NE2	2.11	0.48
6:Ag:238:GLY:O	6:Ag:241:GLN:NE2	2.46	0.48
6:Al:171:ASP:OD1	6:Al:171:ASP:N	2.46	0.48
6:Av:41:VAL:HG22	6:Av:59:GLN:HB2	1.95	0.48
6:Av:49:ASN:O	6:Av:50:ALA:HB2	2.13	0.48
6:Az:69:GLU:OE1	6:Az:82:ARG:NH2	2.46	0.48
6:G:130:VAL:HG22	6:G:347:GLY:HA2	1.95	0.48
6:H:80:ASP:O	6:H:393:GLY:N	2.46	0.48
6:J:73:ILE:HD13	6:J:397:GLN:HE21	1.77	0.48
5:W:123:ASN:HD21	5:W:127:THR:HB	1.78	0.48
10:m:84:GLY:O	10:m:101:ARG:NH2	2.31	0.48
11:s:71:MET:SD	11:s:74:ARG:NH1	2.85	0.48
17:CA:86:MET:HE1	17:CF:67:PHE:CD2	2.49	0.48
13:CB:90:VAL:HA	13:CB:104:ILE:HG22	1.95	0.48
13:CO:157:LEU:O	13:CO:161:SER:OG	2.27	0.48
17:Ch:86:MET:HE1	17:Cm:67:PHE:CD2	2.49	0.48
14:Cj:133:MET:CG	14:Co:157:ASN:HD21	2.26	0.48
17:Cm:87:VAL:HG21	17:Cm:122:THR:HG21	1.95	0.48
13:Cn:350:TYR:OH	13:Cn:355:GLU:OE2	2.26	0.48
13:Cs:350:TYR:OH	13:Cs:355:GLU:OE2	2.26	0.48
13:Cx:90:VAL:HA	13:Cx:104:ILE:HG22	1.95	0.48
13:B6:148:ASP:O	13:B6:152:VAL:HG23	2.14	0.48
14:BI:186:ALA:HB3	14:BN:71:PRO:HG2	1.95	0.48
13:BM:148:ASP:O	13:BM:152:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bf:175:PRO:HB2	14:Bh:80:ALA:HA	1.96	0.48
13:Bq:85:VAL:HG12	13:Bq:108:ILE:HG12	1.96	0.48
13:Bq:148:ASP:O	13:Bq:152:VAL:HG23	2.14	0.48
13:Bq:157:LEU:O	13:Bq:161:SER:OG	2.27	0.48
19:DF:38:LEU:HD11	19:DF:77:LEU:HD22	1.95	0.48
19:DK:165:GLU:HG3	19:DK:204:ALA:HB2	1.96	0.48
18:DL:58:ALA:HB1	18:DL:72:PHE:HE1	1.78	0.48
19:DR:38:LEU:HD11	19:DR:77:LEU:HD22	1.95	0.48
18:DT:244:LEU:HD13	18:DT:284:VAL:HG11	1.94	0.48
18:DU:67:LYS:HE2	18:DU:67:LYS:HB3	1.76	0.48
18:Dr:58:ALA:HB1	18:Dr:72:PHE:HE1	1.78	0.48
18:Dr:116:TYR:CD1	19:Dt:199:ASN:HB3	2.48	0.48
18:Dr:216:ASP:OD2	18:Dr:291:THR:OG1	2.24	0.48
18:Dv:215:ILE:HA	18:Dv:290:ARG:HA	1.95	0.48
18:Dw:156:VAL:HG12	18:Dw:157:LEU:HG	1.96	0.48
21:EF:3:GLY:HA3	7:ES:381:ILE:CG2	2.44	0.48
7:Ep:201:ALA:HB2	7:Ep:232:MET:HE1	1.96	0.48
7:Es:161:LEU:HD21	7:Et:139:ASP:HB3	1.96	0.48
7:Ew:299:ASP:O	7:Ew:389:GLY:HA2	2.13	0.48
7:E3:430:LEU:HA	7:E3:433:THR:HB	1.94	0.48
3:5:8:GLU:HG2	3:5:83:ARG:NH2	2.29	0.48
5:A:259:ASN:ND2	10:o:226:GLU:OE1	2.47	0.48
6:A3:13:GLN:HE22	5:S:226:ASN:HD21	1.62	0.48
5:AY:239:ARG:O	5:AY:243:MET:HG2	2.13	0.48
6:Ah:360:LEU:HB3	6:Ah:368:TRP:HB3	1.96	0.48
6:Ai:401:ASP:O	6:Ai:405:GLU:HG2	2.14	0.48
6:Am:430:GLN:CD	6:As:414:ARG:HD2	2.38	0.48
6:Am:433:ILE:HD11	6:Ar:416:PHE:HZ	1.79	0.48
6:Ao:43:SER:OG	6:Ao:44:ASN:N	2.47	0.48
6:As:49:ASN:O	6:As:50:ALA:HB2	2.12	0.48
6:G:172:LEU:HD13	6:G:212:GLN:HA	1.96	0.48
6:L:171:ASP:OD1	6:L:171:ASP:N	2.47	0.48
5:R:24:ASN:ND2	5:R:34:TYR:OH	2.47	0.48
5:U:185:LEU:HB3	5:U:193:TYR:HB3	1.96	0.48
10:n:14:GLN:HB3	10:n:59:THR:HG23	1.95	0.48
11:u:39:LYS:HE3	23:u:201:XKP:C8	2.44	0.48
13:B7:85:VAL:HG12	13:B7:108:ILE:HG12	1.96	0.48
14:B8:71:PRO:HG2	14:B2:186:ALA:HB3	1.95	0.48
13:CB:85:VAL:HG12	13:CB:108:ILE:HG12	1.96	0.48
13:CB:148:ASP:O	13:CB:152:VAL:HG23	2.14	0.48
17:CF:86:MET:HE1	17:CN:67:PHE:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CG:215:ILE:HA	18:CG:290:ARG:HA	1.95	0.48
13:CT:148:ASP:O	13:CT:152:VAL:HG23	2.14	0.48
13:CY:148:ASP:O	13:CY:152:VAL:HG23	2.14	0.48
13:Cn:148:ASP:O	13:Cn:152:VAL:HG23	2.14	0.48
14:B2:71:PRO:HG2	14:Bw:186:ALA:HB3	1.95	0.48
13:B6:85:VAL:HG12	13:B6:108:ILE:HG12	1.96	0.48
14:BN:186:ALA:HB3	14:BS:71:PRO:HG2	1.95	0.48
13:BR:85:VAL:HG12	13:BR:108:ILE:HG12	1.96	0.48
13:BW:148:ASP:O	13:BW:152:VAL:HG23	2.14	0.48
13:Bg:350:TYR:OH	13:Bg:355:GLU:OE2	2.26	0.48
13:Bv:85:VAL:HG12	13:Bv:108:ILE:HG12	1.96	0.48
19:DB:139:ALA:HB1	19:DB:147:ARG:HG2	1.94	0.48
19:DC:105:GLN:HE21	19:DC:105:GLN:HB2	1.50	0.48
18:DI:49:VAL:HG22	18:DI:59:VAL:HG22	1.96	0.48
18:DP:58:ALA:HB1	18:DP:72:PHE:HE1	1.78	0.48
18:DU:100:HIS:O	18:DU:133:ARG:NH2	2.38	0.48
18:Dj:244:LEU:HD13	18:Dj:284:VAL:HG11	1.95	0.48
18:Dn:267:ARG:NH1	19:Dq:105:GLN:OE1	2.46	0.48
19:Dq:165:GLU:HG3	19:Dq:204:ALA:HB2	1.96	0.48
19:Du:169:ARG:HH11	19:Du:207:ARG:HD2	1.78	0.48
18:Dw:100:HIS:O	18:Dw:133:ARG:NH2	2.38	0.48
7:EN:299:ASP:O	7:EN:389:GLY:HA2	2.13	0.48
7:Ed:159:LEU:O	7:Ed:162:SER:OG	2.28	0.48
7:Em:187:PRO:HD3	7:Em:199:ALA:HB2	1.96	0.48
7:Eq:203:VAL:HG13	7:Eq:239:VAL:HG22	1.95	0.48
7:Et:207:LEU:HD21	7:Et:213:LEU:HD11	1.96	0.48
2:1:119:LEU:HD21	2:1:270:PHE:CE1	2.49	0.47
5:AS:25:ASN:HD21	5:AS:37:SER:H	1.62	0.47
6:Ad:6:LEU:HD13	6:Aj:407:VAL:HG11	1.95	0.47
6:Ae:429:LEU:HD21	6:Aj:413:GLN:HG3	1.95	0.47
6:Ak:402:MET:O	6:Ak:406:LEU:HD23	2.14	0.47
6:An:21:ASN:O	6:An:25:ASN:ND2	2.41	0.47
6:Ar:115:ASN:ND2	6:Ar:147:ILE:O	2.35	0.47
6:Az:46:LEU:HD11	5:Z:150:ILE:CG1	2.43	0.47
6:I:119:THR:HG23	6:I:123:GLU:O	2.14	0.47
6:L:73:ILE:HD13	6:L:397:GLN:HG2	1.96	0.47
5:S:24:ASN:ND2	5:S:34:TYR:OH	2.47	0.47
13:B7:157:LEU:O	13:B7:161:SER:OG	2.27	0.47
14:B8:186:ALA:HB3	14:CC:71:PRO:HG2	1.95	0.47
17:CI:67:PHE:CE2	17:C7:86:MET:HE1	2.49	0.47
17:CI:86:MET:HE1	17:A7:67:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A7:86:MET:HE1	17:BB:67:PHE:CE2	2.49	0.47
13:Cs:148:ASP:O	13:Cs:152:VAL:HG23	2.14	0.47
13:C8:350:TYR:OH	13:C8:355:GLU:OE2	2.26	0.47
13:B1:90:VAL:HA	13:B1:104:ILE:HG22	1.95	0.47
13:BC:85:VAL:HG12	13:BC:108:ILE:HG12	1.96	0.47
13:BH:85:VAL:HG12	13:BH:108:ILE:HG12	1.96	0.47
17:BL:86:MET:HE1	17:BQ:67:PHE:CE2	2.49	0.47
13:BR:90:VAL:HA	13:BR:104:ILE:HG22	1.95	0.47
13:BR:148:ASP:O	13:BR:152:VAL:HG23	2.14	0.47
18:DE:156:VAL:HG12	18:DE:157:LEU:HG	1.96	0.47
18:DM:100:HIS:O	18:DM:133:ARG:NH2	2.38	0.47
18:DU:156:VAL:HG12	18:DU:157:LEU:HG	1.96	0.47
18:DY:49:VAL:HG22	18:DY:59:VAL:HG22	1.96	0.47
18:Do:156:VAL:HG12	18:Do:157:LEU:HG	1.96	0.47
19:Dx:139:ALA:HB1	19:Dx:147:ARG:HG2	1.94	0.47
7:EZ:174:MET:SD	7:EZ:221:ILE:HD11	2.54	0.47
7:El:178:ARG:NH2	7:El:206:THR:OG1	2.47	0.47
7:Er:157:GLU:HG3	7:Es:159:LEU:HD22	1.96	0.47
5:A:40:VAL:HG11	10:n:116:ALA:HB1	1.95	0.47
6:A1:427:ASN:HD22	5:P:235:ILE:CG2	2.20	0.47
5:AV:95:MET:O	5:AV:118:GLY:HA3	2.14	0.47
5:AW:23:SER:HG	5:X:8:SER:HG	1.57	0.47
6:Ac:35:ARG:NH2	6:Ac:37:GLU:OE2	2.32	0.47
6:Ac:109:PHE:CE1	6:Ac:119:THR:HG22	2.49	0.47
6:Ac:407:VAL:HG11	6:K:6:LEU:HD13	1.96	0.47
6:Ad:223:THR:HG22	6:Ad:232:PRO:HA	1.96	0.47
6:Ah:274:GLY:HA3	6:Ah:285:MET:HG3	1.96	0.47
6:As:46:LEU:HD12	5:S:149:SER:C	2.38	0.47
6:Av:369:ASP:OD1	6:Av:370:SER:N	2.46	0.47
5:B:177:THR:HG21	5:B:202:PRO:HB3	1.96	0.47
6:H:401:ASP:O	6:H:405:GLU:HG2	2.14	0.47
6:J:109:PHE:HE1	6:J:119:THR:HG22	1.78	0.47
6:N:171:ASP:OD1	6:N:187:ASN:ND2	2.47	0.47
5:P:36:LYS:HB3	5:P:225:VAL:HG12	1.95	0.47
5:Q:16:GLN:HG3	5:Q:241:TYR:HE2	1.78	0.47
5:Q:258:VAL:HG13	5:Q:262:LEU:HD22	1.96	0.47
5:W:166:GLN:O	5:W:167:ASP:HB2	2.15	0.47
10:m:114:THR:HG22	10:m:120:LEU:HD13	1.96	0.47
13:B7:90:VAL:HA	13:B7:104:ILE:HG22	1.95	0.47
17:CA:67:PHE:CD2	17:B5:86:MET:HE1	2.49	0.47
17:CI:87:VAL:HG21	17:CI:122:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A7:87:VAL:HG21	17:A7:122:THR:HG21	1.95	0.47
13:A8:85:VAL:HG12	13:A8:108:ILE:HG12	1.96	0.47
13:CT:90:VAL:HA	13:CT:104:ILE:HG22	1.95	0.47
13:Cd:148:ASP:O	13:Cd:152:VAL:HG23	2.14	0.47
13:Ci:148:ASP:O	13:Ci:152:VAL:HG23	2.14	0.47
13:Ci:350:TYR:OH	13:Ci:355:GLU:OE2	2.26	0.47
13:Cn:148:ASP:OD2	13:Cn:256:THR:OG1	2.28	0.47
13:Cn:362:ASN:ND2	18:DQ:89:ILE:HD11	2.12	0.47
17:Cr:86:MET:HE1	17:Cw:67:PHE:CE2	2.49	0.47
17:C2:86:MET:HE1	17:C7:67:PHE:CE2	2.50	0.47
17:C7:87:VAL:HG21	17:C7:122:THR:HG21	1.95	0.47
13:B1:85:VAL:HG12	13:B1:108:ILE:HG12	1.96	0.47
17:BB:86:MET:HE1	17:BG:67:PHE:CE2	2.50	0.47
17:BG:86:MET:HE1	17:BL:67:PHE:CE2	2.50	0.47
13:BH:148:ASP:O	13:BH:152:VAL:HG23	2.14	0.47
13:BM:85:VAL:HG12	13:BM:108:ILE:HG12	1.96	0.47
17:BQ:86:MET:HE1	17:BV:67:PHE:CE2	2.49	0.47
17:Ba:86:MET:HE1	17:Bf:67:PHE:CD2	2.49	0.47
13:Bg:107:ASP:OD1	13:Bg:107:ASP:N	2.48	0.47
13:Bl:85:VAL:HG12	13:Bl:108:ILE:HG12	1.96	0.47
17:Bu:87:VAL:HG21	17:Bu:122:THR:HG21	1.95	0.47
18:DL:267:ARG:NH1	19:DO:105:GLN:OE1	2.46	0.47
19:DN:38:LEU:HD11	19:DN:77:LEU:HD22	1.95	0.47
18:DU:49:VAL:HG22	18:DU:59:VAL:HG22	1.96	0.47
18:DY:156:VAL:HG12	18:DY:157:LEU:HG	1.96	0.47
18:Dk:156:VAL:HG12	18:Dk:157:LEU:HG	1.96	0.47
7:Dz:430:LEU:HA	7:Dz:433:THR:HB	1.94	0.47
7:EI:299:ASP:O	7:EI:389:GLY:HA2	2.13	0.47
7:EL:299:ASP:O	7:EL:389:GLY:HA2	2.13	0.47
7:Ef:220:SER:HB3	7:Eg:246:LEU:HB2	1.96	0.47
7:Eg:159:LEU:O	7:Eg:162:SER:OG	2.27	0.47
7:Eo:174:MET:HB3	7:Eo:174:MET:HE2	1.79	0.47
1:0:187:TRP:HH2	1:0:197:VAL:HG11	1.79	0.47
2:2:154:ASN:HA	2:2:158:VAL:HB	1.95	0.47
3:5:42:THR:HG23	3:5:44:ILE:HG12	1.96	0.47
5:A:243:MET:HE3	10:n:26:LEU:HD22	1.96	0.47
6:A3:66:GLN:OE1	5:Q:91:ASN:OD1	2.33	0.47
5:AP:186:GLU:HG3	5:AS:67:MET:HE3	1.95	0.47
5:AP:236:GLU:HG3	5:AT:1:MET:HG2	1.96	0.47
5:AT:28:ASN:OD1	5:AT:28:ASN:N	2.45	0.47
5:AW:176:ILE:HD11	5:AW:212:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ad:360:LEU:HB3	6:Ad:368:TRP:HB3	1.96	0.47
6:Ai:369:ASP:OD1	6:Ai:370:SER:N	2.47	0.47
6:An:415:ASN:O	6:An:419:ASN:ND2	2.48	0.47
6:Ao:433:ILE:HD11	6:At:416:PHE:CZ	2.49	0.47
6:As:49:ASN:HD22	5:S:218:SER:HB3	1.78	0.47
5:P:7:VAL:HG13	5:P:71:GLY:HA2	1.96	0.47
5:a:91:ASN:HD22	5:a:92:ALA:N	2.12	0.47
5:a:214:GLU:OE1	5:a:216:ARG:NH1	2.47	0.47
9:h:13:ALA:O	9:h:17:GLU:HG2	2.14	0.47
10:m:76:ARG:NH1	10:m:79:ASP:OD1	2.45	0.47
13:CO:85:VAL:HG12	13:CO:108:ILE:HG12	1.96	0.47
17:Ch:86:MET:HE1	17:Cm:67:PHE:CE2	2.49	0.47
13:Cs:90:VAL:HA	13:Cs:104:ILE:HG22	1.95	0.47
17:Cw:86:MET:HE1	17:C2:67:PHE:CE2	2.50	0.47
17:BB:87:VAL:HG21	17:BB:122:THR:HG21	1.95	0.47
17:BV:86:MET:HE1	17:Ba:67:PHE:CD2	2.49	0.47
17:BV:86:MET:HE1	17:Ba:67:PHE:CE2	2.49	0.47
17:BV:87:VAL:HG21	17:BV:122:THR:HG21	1.95	0.47
17:BV:175:PRO:HB2	14:BX:80:ALA:HA	1.96	0.47
17:Ba:175:PRO:HB2	14:Bc:80:ALA:HA	1.96	0.47
13:Bb:148:ASP:O	13:Bb:152:VAL:HG23	2.14	0.47
13:Bg:85:VAL:HG12	13:Bg:108:ILE:HG12	1.96	0.47
17:Bk:175:PRO:HB2	14:Bm:80:ALA:HA	1.96	0.47
13:Bl:148:ASP:O	13:Bl:152:VAL:HG23	2.14	0.47
17:Bp:175:PRO:HB2	14:Br:80:ALA:HA	1.96	0.47
13:Bq:90:VAL:HA	13:Bq:104:ILE:HG22	1.95	0.47
17:Bu:175:PRO:HB2	14:Bw:80:ALA:HA	1.96	0.47
13:Bv:107:ASP:OD1	13:Bv:107:ASP:N	2.48	0.47
19:DV:156:ARG:HD3	19:DV:158:TYR:HE2	1.80	0.47
19:DZ:156:ARG:HD3	19:DZ:158:TYR:HE2	1.79	0.47
18:Dj:58:ALA:HB1	18:Dj:72:PHE:HE1	1.78	0.47
19:Dy:165:GLU:HG3	19:Dy:204:ALA:HB2	1.96	0.47
7:Ec:174:MET:SD	7:Ec:221:ILE:HD11	2.54	0.47
7:Ej:160:LYS:HD3	7:Ej:184:LEU:HB2	1.97	0.47
6:A2:61:SER:OG	5:P:132:GLY:HA2	2.14	0.47
6:Ab:29:TYR:HE2	6:K:37:GLU:HG2	1.80	0.47
6:Ad:407:VAL:HG11	6:L:6:LEU:HD13	1.96	0.47
6:Af:40:ASP:H	6:Ak:366:THR:HG23	1.80	0.47
6:Af:109:PHE:CE1	6:Af:119:THR:HG22	2.49	0.47
6:Ai:3:TYR:CZ	6:At:397:GLN:HG3	2.50	0.47
6:Aj:117:MET:HE3	6:Aj:125:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Aj:401:ASP:O	6:Aj:405:GLU:HG2	2.14	0.47
6:An:111:LEU:HD11	6:An:147:ILE:HD12	1.96	0.47
6:Ao:69:GLU:OE1	6:Ao:82:ARG:NH2	2.47	0.47
6:Aq:109:PHE:CE1	6:Aq:119:THR:HG22	2.48	0.47
6:E:117:MET:HE3	6:E:125:LEU:HD23	1.96	0.47
6:F:105:ARG:NH1	6:F:396:GLU:OE2	2.45	0.47
5:R:227:VAL:HB	5:V:243:MET:SD	2.54	0.47
14:CC:186:ALA:HB3	14:CK:71:PRO:HG2	1.95	0.47
14:A9:163:GLY:HA3	14:BI:245:MET:O	2.13	0.47
17:CN:86:MET:HE1	17:CS:67:PHE:CD2	2.49	0.47
13:CY:85:VAL:HG12	13:CY:108:ILE:HG12	1.96	0.47
13:Cd:85:VAL:HG12	13:Cd:108:ILE:HG12	1.96	0.47
17:Cm:86:MET:HE1	17:Cr:67:PHE:CD2	2.49	0.47
17:Cr:87:VAL:HG21	17:Cr:122:THR:HG21	1.95	0.47
17:C2:87:VAL:HG21	17:C2:122:THR:HG21	1.95	0.47
14:C4:186:ALA:HB3	14:C9:71:PRO:HG2	1.95	0.47
18:DA:156:VAL:HG12	18:DA:157:LEU:HG	1.96	0.47
14:B2:80:ALA:HA	17:Bz:175:PRO:HB2	1.96	0.47
13:BC:148:ASP:O	13:BC:152:VAL:HG23	2.14	0.47
13:BM:90:VAL:HA	13:BM:104:ILE:HG22	1.95	0.47
17:Ba:86:MET:HE1	17:Bf:67:PHE:CE2	2.49	0.47
17:Ba:87:VAL:HG21	17:Ba:122:THR:HG21	1.95	0.47
17:Bf:86:MET:HE1	17:Bk:67:PHE:CD2	2.49	0.47
14:Br:186:ALA:HB3	14:Bw:71:PRO:HG2	1.95	0.47
18:DD:112:GLN:HE22	18:DE:67:LYS:HA	1.78	0.47
18:Db:215:ILE:HA	18:Db:290:ARG:HA	1.95	0.47
18:Dc:49:VAL:HG22	18:Dc:59:VAL:HG22	1.96	0.47
18:Dg:256:ASP:OD1	18:Dg:256:ASP:N	2.32	0.47
7:D3:430:LEU:HA	7:D3:433:THR:HB	1.94	0.47
7:EP:260:ARG:O	7:EP:264:GLU:HG2	2.15	0.47
7:EV:260:ARG:O	7:EV:264:GLU:HG2	2.15	0.47
7:EZ:171:ILE:HG22	7:EZ:177:VAL:HG11	1.95	0.47
7:Ee:193:VAL:C	7:Ee:195:HIS:N	2.70	0.47
7:Eu:260:ARG:O	7:Eu:264:GLU:HG2	2.15	0.47
5:AW:226:ASN:O	5:AW:230:GLU:HG2	2.15	0.47
5:AY:148:ILE:C	6:An:46:LEU:HD13	2.38	0.47
6:Ac:276:PRO:HA	6:Ac:282:PRO:HG3	1.95	0.47
6:Ai:130:VAL:HG22	6:Ai:347:GLY:HA2	1.96	0.47
6:Aj:327:ASP:N	6:Aj:327:ASP:OD1	2.47	0.47
6:Ak:130:VAL:HG12	6:Ak:137:VAL:HA	1.95	0.47
6:Al:429:LEU:HD21	6:Aq:413:GLN:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Am:130:VAL:HG22	6:Am:347:GLY:HA2	1.95	0.47
6:Ar:84:SER:OG	6:Ar:391:ASN:ND2	2.47	0.47
6:F:157:THR:HG1	6:F:195:TYR:H	1.62	0.47
8:b:30:ILE:HG23	8:b:96:LEU:HD11	1.96	0.47
11:w:88:ARG:HH11	11:w:92:VAL:HG21	1.80	0.47
13:CB:107:ASP:OD1	13:CB:107:ASP:N	2.48	0.47
13:CJ:350:TYR:OH	13:CJ:355:GLU:OE2	2.26	0.47
13:CO:148:ASP:O	13:CO:152:VAL:HG23	2.14	0.47
13:CT:85:VAL:HG12	13:CT:108:ILE:HG12	1.96	0.47
17:Cc:86:MET:HE1	17:Ch:67:PHE:CE2	2.49	0.47
14:Ce:186:ALA:HB3	14:Cj:71:PRO:HG2	1.95	0.47
13:C8:148:ASP:O	13:C8:152:VAL:HG23	2.14	0.47
13:B1:157:LEU:O	13:B1:161:SER:OG	2.27	0.47
17:BG:87:VAL:HG21	17:BG:122:THR:HG21	1.95	0.47
17:BG:175:PRO:HB2	14:BI:80:ALA:HA	1.96	0.47
17:BQ:87:VAL:HG21	17:BQ:122:THR:HG21	1.95	0.47
13:BR:107:ASP:OD1	13:BR:107:ASP:N	2.48	0.47
14:BS:127:LYS:NZ	14:Bc:256:ASN:O	2.40	0.47
17:Bf:87:VAL:HG21	17:Bf:122:THR:HG21	1.95	0.47
13:Bg:148:ASP:O	13:Bg:152:VAL:HG23	2.14	0.47
19:DC:165:GLU:HG3	19:DC:204:ALA:HB2	1.96	0.47
18:Db:58:ALA:HB1	18:Db:72:PHE:HE1	1.78	0.47
18:Dn:58:ALA:HB1	18:Dn:72:PHE:HE1	1.78	0.47
7:D1:260:ARG:O	7:D1:264:GLU:HG2	2.15	0.47
7:EY:174:MET:HE2	7:EY:174:MET:HB3	1.67	0.47
7:Eq:152:GLN:HG3	7:Eq:153:ARG:HE	1.79	0.47
7:Ez:260:ARG:O	7:Ez:264:GLU:HG2	2.15	0.47
2:1:189:ILE:CG1	7:Eh:193:VAL:HA	2.44	0.47
6:A1:42:TYR:CE2	6:A1:55:GLY:HA2	2.50	0.47
6:A1:45:SER:HB3	6:A1:48:THR:HG23	1.97	0.47
6:A2:37:GLU:CG	5:P:119:GLN:HE22	2.14	0.47
6:A3:41:VAL:HG22	6:A3:59:GLN:HB2	1.96	0.47
5:AS:87:GLN:HE22	5:AW:38:ARG:HH22	1.63	0.47
5:AW:36:LYS:HB3	5:AW:225:VAL:HG12	1.96	0.47
5:AX:36:LYS:HB3	5:AX:225:VAL:HG12	1.97	0.47
6:Ab:427:ASN:OD1	6:Ah:414:ARG:NH1	2.47	0.47
6:Ac:365:GLY:HA2	6:L:39:ALA:HB1	1.97	0.47
6:Ae:130:VAL:HG12	6:Ae:137:VAL:HA	1.95	0.47
6:Ag:401:ASP:O	6:Ag:405:GLU:HG2	2.15	0.47
6:Ap:49:ASN:O	6:Ap:50:ALA:HB3	2.14	0.47
6:Ap:129:GLN:HB2	6:Ap:143:GLN:NE2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:105:ARG:NH1	6:Ar:396:GLU:OE1	2.48	0.47
6:At:430:GLN:CD	6:Az:414:ARG:HD2	2.39	0.47
6:Az:433:ILE:HD13	5:U:228:THR:HG23	1.96	0.47
6:F:109:PHE:CE1	6:F:119:THR:HG22	2.50	0.47
6:I:33:GLU:HB3	6:I:400:ILE:HG22	1.96	0.47
6:J:37:GLU:HG2	6:O:29:TYR:HE2	1.79	0.47
6:K:84:SER:OG	6:K:391:ASN:ND2	2.48	0.47
6:K:401:ASP:O	6:K:405:GLU:HG2	2.15	0.47
6:O:172:LEU:HD22	6:O:212:GLN:HA	1.96	0.47
5:a:98:GLU:OE1	5:a:216:ARG:NH1	2.48	0.47
8:b:9:LEU:HD12	8:b:120:LYS:HB3	1.96	0.47
8:d:30:ILE:HG23	8:d:96:LEU:HD11	1.97	0.47
13:B7:148:ASP:O	13:B7:152:VAL:HG23	2.14	0.47
14:B8:80:ALA:HA	17:B5:175:PRO:HB2	1.96	0.47
13:A8:148:ASP:O	13:A8:152:VAL:HG23	2.14	0.47
13:Ci:85:VAL:HG12	13:Ci:108:ILE:HG12	1.96	0.47
17:Cm:86:MET:HE1	17:Cr:67:PHE:CE2	2.50	0.47
14:Ct:133:MET:CG	14:Cy:157:ASN:HD21	2.26	0.47
13:Cx:148:ASP:O	13:Cx:152:VAL:HG23	2.14	0.47
17:BL:87:VAL:HG21	17:BL:122:THR:HG21	1.95	0.47
17:BL:175:PRO:HB2	14:BN:80:ALA:HA	1.96	0.47
15:BY:143:PHE:CE2	13:Bb:337:VAL:HG21	2.50	0.47
14:Bm:186:ALA:HB3	14:Br:71:PRO:HG2	1.95	0.47
13:Bv:148:ASP:O	13:Bv:152:VAL:HG23	2.14	0.47
18:DM:156:VAL:HG12	18:DM:157:LEU:HG	1.96	0.47
19:DN:156:ARG:HD3	19:DN:158:TYR:HE2	1.79	0.47
18:DP:244:LEU:HD13	18:DP:284:VAL:HG11	1.95	0.47
18:DT:216:ASP:OD2	18:DT:291:THR:OG1	2.24	0.47
18:Dj:100:HIS:O	18:Dj:133:ARG:NH2	2.38	0.47
18:Dn:244:LEU:HD13	18:Dn:284:VAL:HG11	1.95	0.47
18:Ds:49:VAL:HG22	18:Ds:59:VAL:HG22	1.96	0.47
7:D2:260:ARG:O	7:D2:264:GLU:HG2	2.15	0.47
7:D4:260:ARG:O	7:D4:264:GLU:HG2	2.15	0.47
21:EC:7:GLU:CB	7:E5:381:ILE:CG2	2.91	0.47
7:EM:260:ARG:O	7:EM:264:GLU:HG2	2.15	0.47
7:Eg:168:ALA:O	7:Eg:172:GLU:HG2	2.14	0.47
7:Er:214:LYS:NZ	7:Er:217:GLU:OE2	2.47	0.47
7:Ew:260:ARG:O	7:Ew:264:GLU:HG2	2.15	0.47
7:E2:260:ARG:O	7:E2:264:GLU:HG2	2.15	0.47
1:9:107:TRP:HD1	1:9:128:PRO:HG3	1.79	0.47
6:A1:433:ILE:HD11	5:Aa:241:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A2:431:GLN:HE21	5:Q:239:ARG:NH1	2.13	0.47
7:AF:349:ILE:O	7:AF:350:PRO:C	2.57	0.47
5:AS:87:GLN:NE2	5:AW:38:ARG:HH22	2.13	0.47
5:AT:226:ASN:HB3	5:AT:229:GLU:HB2	1.97	0.47
5:AV:36:LYS:HB3	5:AV:225:VAL:HG12	1.97	0.47
5:AX:238:GLN:HG3	5:Y:254:MET:HG3	1.95	0.47
5:AY:131:SER:OG	6:Ay:62:GLN:OE1	2.29	0.47
5:AZ:187:PRO:HB2	6:Az:42:TYR:HD1	1.67	0.47
5:AZ:238:GLN:HG3	6:Az:429:LEU:CD2	2.41	0.47
5:AZ:238:GLN:NE2	6:Az:428:GLN:NE2	2.47	0.47
6:Ab:3:TYR:CZ	6:Am:397:GLN:HG3	2.50	0.47
6:Ae:40:ASP:H	6:Aj:366:THR:HG23	1.79	0.47
6:Ag:33:GLU:HB3	6:Ag:400:ILE:HG22	1.96	0.47
6:Ai:231:LYS:HB3	6:Ai:281:THR:HB	1.95	0.47
6:Aj:171:ASP:N	6:Aj:171:ASP:OD1	2.46	0.47
6:Ao:151:PHE:CE2	6:Ao:344:VAL:HG21	2.49	0.47
6:Aq:130:VAL:HG22	6:Aq:347:GLY:HA2	1.96	0.47
6:Ar:172:LEU:HB3	6:Ar:212:GLN:HB2	1.97	0.47
6:Ax:16:LEU:HD22	6:Ax:412:ALA:HB1	1.95	0.47
6:F:401:ASP:O	6:F:405:GLU:HG2	2.15	0.47
6:K:151:PHE:CE2	6:K:344:VAL:HG21	2.49	0.47
5:P:48:ASN:HD21	5:P:51:GLN:HE21	1.63	0.47
5:Q:239:ARG:HA	5:Q:239:ARG:HD3	1.75	0.47
5:S:43:ASP:OD1	5:S:43:ASP:N	2.40	0.47
5:T:94:ASP:HB2	5:T:220:LEU:HD21	1.95	0.47
5:T:184:GLY:O	5:T:196:THR:OG1	2.30	0.47
5:X:19:ILE:HG23	5:X:234:MET:HE1	1.97	0.47
8:f:85:GLN:OE1	9:k:22:ASN:ND2	2.47	0.47
10:o:35:ARG:NH1	10:o:101:ARG:HD3	2.30	0.47
2:y:149:VAL:HG23	2:y:178:PRO:HB2	1.96	0.47
2:y:206:PRO:HG2	7:Ep:194:ARG:HH22	1.80	0.47
2:y:207:GLU:OE2	7:Ep:194:ARG:NH2	2.48	0.47
14:B8:133:MET:HG3	14:CC:157:ASN:ND2	2.30	0.47
13:CJ:85:VAL:HG12	13:CJ:108:ILE:HG12	1.96	0.47
13:CJ:148:ASP:O	13:CJ:152:VAL:HG23	2.14	0.47
15:A5:143:PHE:CE2	13:A8:337:VAL:HG21	2.50	0.47
13:A8:350:TYR:OH	13:A8:355:GLU:OE2	2.26	0.47
14:CK:186:ALA:HB3	14:CP:71:PRO:HG2	1.95	0.47
14:CU:186:ALA:HB3	14:CZ:71:PRO:HG2	1.95	0.47
13:CY:107:ASP:OD1	13:CY:107:ASP:N	2.48	0.47
13:CY:157:LEU:O	13:CY:161:SER:OG	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Co:133:MET:HG3	14:Ct:157:ASN:ND2	2.30	0.47
17:Cr:86:MET:HE1	17:Cw:67:PHE:CD2	2.49	0.47
17:Cw:86:MET:HE1	17:C2:67:PHE:CD2	2.49	0.47
17:Cw:87:VAL:HG21	17:Cw:122:THR:HG21	1.95	0.47
13:Cx:85:VAL:HG12	13:Cx:108:ILE:HG12	1.96	0.47
13:C3:85:VAL:HG12	13:C3:108:ILE:HG12	1.96	0.47
13:C3:148:ASP:O	13:C3:152:VAL:HG23	2.14	0.47
17:BG:86:MET:HE1	17:BL:67:PHE:CD2	2.49	0.47
15:BJ:143:PHE:CE2	13:BM:337:VAL:HG21	2.50	0.47
17:BL:86:MET:HE1	17:BQ:67:PHE:CD2	2.49	0.47
17:BQ:175:PRO:HB2	14:BS:80:ALA:HA	1.96	0.47
17:Bf:86:MET:HE1	17:Bk:67:PHE:CE2	2.49	0.47
17:Bk:87:VAL:HG21	17:Bk:122:THR:HG21	1.95	0.47
14:Bm:133:MET:HG3	14:Br:157:ASN:ND2	2.30	0.47
17:Bp:87:VAL:HG21	17:Bp:122:THR:HG21	1.95	0.47
19:DG:183:LYS:HE3	19:DG:183:LYS:HB3	1.71	0.47
18:DM:49:VAL:HG22	18:DM:59:VAL:HG22	1.96	0.47
19:DN:63:VAL:HG22	19:DN:78:TYR:CE1	2.50	0.47
18:DQ:49:VAL:HG22	18:DQ:59:VAL:HG22	1.96	0.47
18:DQ:156:VAL:HG12	18:DQ:157:LEU:HG	1.96	0.47
19:DR:156:ARG:HD3	19:DR:158:TYR:HE2	1.79	0.47
19:Dl:156:ARG:HD3	19:Dl:158:TYR:HE2	1.80	0.47
19:Du:165:GLU:HG3	19:Du:204:ALA:HB2	1.96	0.47
18:Dw:256:ASP:OD1	18:Dw:256:ASP:N	2.32	0.47
7:EG:260:ARG:O	7:EG:264:GLU:HG2	2.15	0.47
7:ET:260:ARG:O	7:ET:264:GLU:HG2	2.15	0.47
7:EY:178:ARG:NH1	7:EY:207:LEU:O	2.47	0.47
7:Ee:193:VAL:C	7:Ee:195:HIS:H	2.22	0.47
7:Ei:201:ALA:HB3	7:Ei:237:ILE:HG23	1.95	0.47
7:Et:171:ILE:HG22	7:Et:177:VAL:HG11	1.97	0.47
7:E5:260:ARG:O	7:E5:264:GLU:HG2	2.15	0.47
6:A3:51:LYS:HB2	6:A3:51:LYS:HE3	1.51	0.47
5:AQ:251:VAL:HG22	10:q:19:LEU:HD21	1.97	0.47
5:AU:68:LEU:HD11	5:B:17:THR:HG23	1.97	0.47
5:AV:70:ALA:HB1	10:o:71:VAL:HG21	1.97	0.47
5:AY:120:PHE:HD1	5:AY:130:THR:HA	1.80	0.47
5:Aa:227:VAL:CG2	6:Au:430:GLN:HE21	2.28	0.47
6:Ad:130:VAL:HG22	6:Ad:347:GLY:HA2	1.97	0.47
6:Ae:330:GLU:OE2	6:Ae:331:ASN:ND2	2.48	0.47
6:Ag:151:PHE:CE2	6:Ag:344:VAL:HG21	2.50	0.47
6:Al:130:VAL:HG22	6:Al:347:GLY:HA2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ao:168:ALA:HA	6:Ao:303:GLN:HE21	1.78	0.47
6:Au:16:LEU:HD22	6:Au:412:ALA:HB1	1.97	0.47
6:E:69:GLU:OE1	6:E:82:ARG:NH2	2.48	0.47
6:I:130:VAL:HG22	6:I:347:GLY:HA2	1.96	0.47
5:R:94:ASP:HB2	5:R:220:LEU:HD21	1.97	0.47
5:U:19:ILE:HG23	5:U:234:MET:HE1	1.97	0.47
5:V:24:ASN:ND2	5:V:34:TYR:OH	2.48	0.47
5:V:262:LEU:OXT	5:a:246:LYS:NZ	2.38	0.47
17:CI:86:MET:HE1	17:A7:67:PHE:CD2	2.49	0.47
13:CJ:188:ASP:CG	17:C7:180:ARG:HH22	2.12	0.47
14:A4:133:MET:HB2	14:A9:157:ASN:HD22	1.80	0.47
14:A4:133:MET:HG3	14:A9:157:ASN:ND2	2.30	0.47
17:CX:86:MET:HE1	17:Cc:67:PHE:CE2	2.49	0.47
13:Cs:85:VAL:HG12	13:Cs:108:ILE:HG12	1.96	0.47
13:C8:85:VAL:HG12	13:C8:108:ILE:HG12	1.96	0.47
14:BN:133:MET:CG	14:BS:157:ASN:HD21	2.26	0.47
15:BO:143:PHE:CE2	13:BR:337:VAL:HG21	2.50	0.47
14:BX:133:MET:HB2	14:Bc:157:ASN:HD22	1.80	0.47
14:BX:133:MET:HG3	14:Bc:157:ASN:ND2	2.30	0.47
15:Bd:143:PHE:CE2	13:Bg:337:VAL:HG21	2.50	0.47
14:Bh:133:MET:CG	14:Bm:157:ASN:HD21	2.26	0.47
17:Bk:86:MET:HE1	17:Bp:67:PHE:CE2	2.49	0.47
15:Bn:143:PHE:CE2	13:Bq:337:VAL:HG21	2.50	0.47
19:DJ:156:ARG:HD3	19:DJ:158:TYR:HE2	1.79	0.47
18:Ds:100:HIS:O	18:Ds:133:ARG:NH2	2.38	0.47
7:EJ:260:ARG:O	7:EJ:264:GLU:HG2	2.15	0.47
7:EL:260:ARG:O	7:EL:264:GLU:HG2	2.15	0.47
7:EO:260:ARG:O	7:EO:264:GLU:HG2	2.15	0.47
7:Er:141:ILE:HG22	7:Er:146:MET:HE1	1.97	0.47
7:Ex:260:ARG:O	7:Ex:264:GLU:HG2	2.15	0.47
7:Ey:260:ARG:O	7:Ey:264:GLU:HG2	2.15	0.47
7:E4:260:ARG:O	7:E4:264:GLU:HG2	2.15	0.47
2:2:264:PRO:HG3	2:z:234:PHE:CG	2.50	0.47
3:6:71:GLN:NE2	7:Ef:151:SER:HB3	2.27	0.47
7:AM:341:ASN:ND2	8:f:88:THR:OG1	2.48	0.47
5:AR:18:ASN:HB2	5:AR:41:PHE:HZ	1.80	0.47
5:AT:115:THR:HB	5:AT:192:LEU:HD12	1.96	0.47
5:Aa:16:GLN:HG3	5:Aa:241:TYR:CE2	2.50	0.47
6:Ac:40:ASP:H	6:Ah:366:THR:HG23	1.80	0.47
6:Ac:57:GLY:H	6:Ah:21:ASN:ND2	2.13	0.47
6:Ac:211:ASP:HB3	6:Ac:217:THR:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ap:325:LYS:HB2	6:Ap:325:LYS:HE3	1.75	0.47
6:Ax:402:MET:O	6:Ax:406:LEU:HD23	2.15	0.47
6:Ay:415:ASN:O	6:Ay:419:ASN:ND2	2.48	0.47
6:Az:3:TYR:CD1	5:U:87:GLN:HG2	2.49	0.47
6:F:171:ASP:OD1	6:F:171:ASP:N	2.48	0.47
6:G:109:PHE:CE1	6:G:119:THR:HG22	2.49	0.47
6:G:183:PRO:HA	6:G:186:TYR:CZ	2.50	0.47
6:M:130:VAL:HG12	6:M:137:VAL:HA	1.97	0.47
5:T:24:ASN:ND2	5:T:34:TYR:OH	2.48	0.47
5:T:206:VAL:HG23	5:T:209:LEU:HB2	1.96	0.47
5:Y:103:PHE:HB2	5:Y:115:THR:HG23	1.96	0.47
5:a:36:LYS:HB3	5:a:225:VAL:HG12	1.96	0.47
8:e:43:LEU:HG	8:e:48:GLU:HG3	1.95	0.47
9:i:126:LYS:HD3	10:n:248:MET:HA	1.96	0.47
14:B8:157:ASN:ND2	14:B2:133:MET:HG3	2.30	0.47
14:A4:157:ASN:HD22	14:C9:133:MET:HB2	1.80	0.47
14:CP:133:MET:HG3	14:CU:157:ASN:ND2	2.30	0.47
14:CP:186:ALA:HB3	14:CU:71:PRO:HG2	1.95	0.47
13:CT:107:ASP:OD1	13:CT:107:ASP:N	2.48	0.47
14:CU:133:MET:HG3	14:CZ:157:ASN:ND2	2.30	0.47
13:Cn:85:VAL:HG12	13:Cn:108:ILE:HG12	1.96	0.47
18:DA:201:ARG:NH2	19:DB:137:GLU:OE2	2.48	0.47
13:B1:148:ASP:O	13:B1:152:VAL:HG23	2.14	0.47
17:BB:175:PRO:HB2	14:BD:80:ALA:HA	1.96	0.47
13:BC:107:ASP:OD1	13:BC:107:ASP:N	2.48	0.47
13:BH:362:ASN:HD22	18:Dg:89:ILE:CD1	2.15	0.47
14:BS:133:MET:HB2	14:BX:157:ASN:HD22	1.80	0.47
14:Br:133:MET:HG3	14:Bw:157:ASN:ND2	2.30	0.47
13:Bv:90:VAL:HA	13:Bv:104:ILE:HG22	1.95	0.47
18:DI:156:VAL:HG12	18:DI:157:LEU:HG	1.96	0.47
18:Dg:49:VAL:HG22	18:Dg:59:VAL:HG22	1.96	0.47
19:Dp:156:ARG:HD3	19:Dp:158:TYR:HE2	1.79	0.47
19:Du:143:ASN:O	19:Du:147:ARG:HG3	2.15	0.47
19:Dx:63:VAL:HG22	19:Dx:78:TYR:CE1	2.50	0.47
19:Dy:143:ASN:O	19:Dy:147:ARG:HG3	2.15	0.47
7:Ea:241:ASP:CG	7:Ea:245:ARG:HG2	2.39	0.47
7:Eq:161:LEU:HD21	7:Eq:165:ARG:NH2	2.30	0.47
7:Es:172:GLU:OE2	7:Es:179:LYS:HA	2.15	0.47
1:0:39:LEU:HD12	1:0:59:ILE:HG22	1.97	0.47
4:8:27:MET:HE1	11:w:92:VAL:HG13	1.96	0.47
5:AU:226:ASN:HB3	5:AU:229:GLU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AV:157:GLU:HG2	5:AZ:55:GLN:HG2	1.96	0.47
5:AY:241:TYR:OH	6:Ay:433:ILE:CD1	2.54	0.47
5:Aa:129:VAL:HG12	5:Aa:136:PRO:HA	1.96	0.47
6:Aq:130:VAL:HG12	6:Aq:137:VAL:HA	1.96	0.47
6:Ar:433:ILE:HD11	6:Aw:416:PHE:CZ	2.49	0.47
6:As:430:GLN:CD	6:Ay:414:ARG:HD2	2.39	0.47
6:At:183:PRO:HA	6:At:186:TYR:CZ	2.50	0.47
6:At:239:ASP:OD1	6:At:239:ASP:N	2.41	0.47
6:M:223:THR:HA	6:M:232:PRO:HA	1.96	0.47
5:W:55:GLN:NE2	5:W:57:SER:O	2.48	0.47
8:c:24:GLU:OE2	9:h:2:SER:N	2.47	0.47
9:h:66:LYS:HE3	9:h:68:MET:SD	2.55	0.47
9:j:20:ARG:HH21	9:j:111:ALA:HA	1.79	0.47
15:B9:143:PHE:CE2	13:CB:337:VAL:HG21	2.50	0.47
13:CO:90:VAL:HA	13:CO:104:ILE:HG22	1.95	0.47
17:CS:86:MET:HE1	17:CX:67:PHE:CE2	2.49	0.47
17:Cm:175:PRO:HB2	14:Co:80:ALA:HA	1.96	0.47
15:Cp:143:PHE:CE2	13:Cs:337:VAL:HG21	2.50	0.47
15:Cu:143:PHE:CE2	13:Cx:337:VAL:HG21	2.50	0.47
15:Cz:143:PHE:CE2	13:C3:337:VAL:HG21	2.50	0.47
15:B3:143:PHE:CE2	13:B6:337:VAL:HG21	2.50	0.47
13:BC:350:TYR:OH	13:BC:355:GLU:OE2	2.26	0.47
13:BM:107:ASP:OD1	13:BM:107:ASP:N	2.48	0.47
14:BS:133:MET:HG3	14:BX:157:ASN:ND2	2.30	0.47
14:Bc:133:MET:CG	14:Bh:157:ASN:HD21	2.26	0.47
13:Bl:350:TYR:OH	13:Bl:355:GLU:OE2	2.26	0.47
19:DK:143:ASN:O	19:DK:147:ARG:HG3	2.15	0.47
18:DQ:201:ARG:NH2	19:DR:137:GLU:OE2	2.48	0.47
18:Df:58:ALA:HB1	18:Df:72:PHE:HE1	1.78	0.47
19:Dq:143:ASN:O	19:Dq:147:ARG:HG3	2.15	0.47
18:Ds:247:TYR:O	18:Ds:250:SER:OG	2.25	0.47
16:D0:5:GLU:O	16:D0:6:PRO:C	2.58	0.47
7:EH:260:ARG:O	7:EH:264:GLU:HG2	2.15	0.47
7:EK:260:ARG:O	7:EK:264:GLU:HG2	2.15	0.47
7:EY:139:ASP:N	7:EY:139:ASP:OD1	2.48	0.47
7:Ed:206:THR:HA	7:Ed:242:GLN:HB3	1.97	0.47
7:Ej:150:VAL:HG12	7:Ej:154:LEU:HD23	1.97	0.47
7:E1:260:ARG:O	7:E1:264:GLU:HG2	2.15	0.47
2:2:258:PRO:HA	2:2:261:VAL:HG12	1.98	0.46
3:7:64:LEU:CD1	7:EY:148:PHE:CD2	2.98	0.46
6:A2:115:ASN:ND2	6:A2:147:ILE:O	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A2:130:VAL:HG12	6:A2:137:VAL:HA	1.96	0.46
5:AW:104:GLN:NE2	5:AW:177:THR:OG1	2.47	0.46
5:AY:241:TYR:CD1	6:Ay:429:LEU:HD22	2.50	0.46
6:Af:330:GLU:OE2	6:Af:331:ASN:ND2	2.49	0.46
6:Aj:38:PHE:CB	6:Ao:28:THR:HG22	2.44	0.46
6:Ak:209:LEU:HD22	6:Ak:219:ASN:HD22	1.80	0.46
6:An:84:SER:OG	6:An:391:ASN:ND2	2.48	0.46
6:An:402:MET:O	6:An:406:LEU:HD23	2.15	0.46
6:Ap:401:ASP:O	6:Ap:405:GLU:HG2	2.15	0.46
6:D:174:ASP:HB3	6:D:177:GLN:HB2	1.97	0.46
6:N:172:LEU:HD22	6:N:212:GLN:HA	1.97	0.46
5:P:103:PHE:HB2	5:P:115:THR:HG23	1.97	0.46
5:S:16:GLN:HE22	5:Y:226:ASN:HD21	1.63	0.46
5:W:80:VAL:O	5:W:224:ASN:ND2	2.48	0.46
9:h:36:SER:OG	9:h:38:ALA:O	2.27	0.46
13:B7:337:VAL:HG21	15:CD:143:PHE:CE2	2.50	0.46
17:CF:175:PRO:HB2	14:CK:80:ALA:HA	1.96	0.46
13:CJ:148:ASP:OD2	13:CJ:256:THR:OG1	2.28	0.46
17:A7:86:MET:HE1	17:BB:67:PHE:CD2	2.49	0.46
15:CL:143:PHE:CE2	13:CO:337:VAL:HG21	2.50	0.46
14:CZ:186:ALA:HB3	14:Ce:71:PRO:HG2	1.95	0.46
14:Cj:133:MET:HB2	14:Co:157:ASN:HD22	1.80	0.46
14:Cj:133:MET:HG3	14:Co:157:ASN:ND2	2.30	0.46
15:Ck:143:PHE:CE2	13:Cn:337:VAL:HG21	2.50	0.46
13:Cn:107:ASP:OD1	13:Cn:107:ASP:N	2.48	0.46
14:Co:133:MET:HB2	14:Ct:157:ASN:HD22	1.80	0.46
14:Ct:133:MET:HB2	14:Cy:157:ASN:HD22	1.80	0.46
15:C5:143:PHE:CE2	13:C8:337:VAL:HG21	2.50	0.46
14:B2:157:ASN:HD22	14:Bw:133:MET:HB2	1.80	0.46
13:Bl:157:LEU:O	13:Bl:161:SER:OG	2.27	0.46
15:Bs:143:PHE:CE2	13:Bv:337:VAL:HG21	2.50	0.46
18:DD:247:TYR:O	18:DD:250:SER:OG	2.20	0.46
19:DF:63:VAL:HG22	19:DF:78:TYR:CE1	2.50	0.46
18:DI:201:ARG:NH2	19:DJ:137:GLU:OE2	2.49	0.46
19:DO:143:ASN:O	19:DO:147:ARG:HG3	2.15	0.46
19:DW:143:ASN:O	19:DW:147:ARG:HG3	2.15	0.46
19:Da:143:ASN:O	19:Da:147:ARG:HG3	2.15	0.46
19:Dl:63:VAL:HG22	19:Dl:78:TYR:CE1	2.50	0.46
19:Dt:63:VAL:HG22	19:Dt:78:TYR:CE1	2.50	0.46
18:Dw:201:ARG:NH2	19:Dx:137:GLU:OE2	2.48	0.46
7:D5:260:ARG:O	7:D5:264:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ER:260:ARG:O	7:ER:264:GLU:HG2	2.15	0.46
7:ES:260:ARG:O	7:ES:264:GLU:HG2	2.15	0.46
7:EX:146:MET:CB	7:EX:150:VAL:HG21	2.40	0.46
7:El:164:GLU:OE2	7:El:184:LEU:N	2.47	0.46
7:Es:179:LYS:HB3	7:Es:206:THR:OG1	2.15	0.46
2:1:105:LEU:HD23	4:8:44:TYR:HB3	1.97	0.46
2:1:206:PRO:CG	7:Ei:192:PHE:CD2	2.82	0.46
3:7:64:LEU:CD1	7:EY:148:PHE:CE2	2.98	0.46
5:A:83:HIS:CD2	5:A:99:GLY:H	2.33	0.46
5:AY:187:PRO:CB	6:Ay:42:TYR:CE1	2.98	0.46
5:AZ:159:SER:HB3	5:AZ:168:ASN:HB3	1.96	0.46
6:Ac:69:GLU:OE1	6:Ac:82:ARG:NH2	2.48	0.46
6:Ac:372:GLN:HB2	6:An:343:ASN:HD22	1.80	0.46
6:Ai:343:ASN:HD22	6:L:372:GLN:HB2	1.79	0.46
6:Al:321:GLY:HA3	6:Al:338:TYR:HB3	1.97	0.46
6:Ap:172:LEU:HD22	6:Ap:212:GLN:HA	1.95	0.46
6:Aq:321:GLY:HA3	6:Aq:338:TYR:HB3	1.96	0.46
6:Ar:35:ARG:NH2	6:Ar:37:GLU:OE2	2.37	0.46
6:Av:35:ARG:NH2	6:Av:37:GLU:OE2	2.41	0.46
6:G:117:MET:HE3	6:G:125:LEU:HD23	1.96	0.46
6:H:35:ARG:NH2	6:H:37:GLU:OE2	2.40	0.46
5:W:38:ARG:HH22	5:a:87:GLN:NE2	2.13	0.46
5:W:206:VAL:HG23	5:W:209:LEU:HB2	1.97	0.46
5:Z:154:THR:HG23	5:Z:214:GLU:HB3	1.97	0.46
23:e:201:XKP:O2	11:r:39:LYS:HD2	2.15	0.46
8:f:21:ARG:NH1	8:f:48:GLU:OE1	2.48	0.46
9:j:100:ASN:HB3	9:j:103:GLU:HG2	1.97	0.46
11:s:90:LYS:HG3	11:w:74:ARG:HE	1.80	0.46
11:v:87:ILE:CG2	22:v:202:PGT:H392	2.45	0.46
17:CA:175:PRO:HB2	14:CC:80:ALA:HA	1.96	0.46
15:A0:143:PHE:CE2	13:BC:337:VAL:HG21	2.50	0.46
17:CI:67:PHE:CD2	17:C7:86:MET:HE1	2.49	0.46
14:A9:133:MET:HB2	14:BD:157:ASN:HD22	1.80	0.46
17:CN:175:PRO:HB2	14:CP:80:ALA:HA	1.96	0.46
17:Ch:175:PRO:HB2	14:Cj:80:ALA:HA	1.96	0.46
13:Ci:282:GLU:O	13:Ci:286:SER:OG	2.31	0.46
17:Cw:175:PRO:HB2	14:Cy:80:ALA:HA	1.96	0.46
17:C2:86:MET:HE1	17:C7:67:PHE:CD2	2.49	0.46
15:BE:143:PHE:CE2	13:BH:337:VAL:HG21	2.50	0.46
14:BN:133:MET:HB2	14:BS:157:ASN:HD22	1.80	0.46
14:BN:133:MET:HG3	14:BS:157:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Bp:86:MET:HE1	17:Bu:67:PHE:CE2	2.50	0.46
14:Br:133:MET:HB2	14:Bw:157:ASN:HD22	1.80	0.46
19:DC:143:ASN:O	19:DC:147:ARG:HG3	2.15	0.46
19:DF:156:ARG:HD3	19:DF:158:TYR:HE2	1.80	0.46
19:DV:63:VAL:HG22	19:DV:78:TYR:CE1	2.50	0.46
19:Dd:156:ARG:HD3	19:Dd:158:TYR:HE2	1.79	0.46
18:Dk:201:ARG:NH2	19:Dl:137:GLU:OE2	2.48	0.46
19:Dp:205:LYS:O	19:Dp:207:ARG:NH1	2.49	0.46
20:D8:8:GLY:HA3	7:EM:374:ASN:OD1	2.11	0.46
7:EN:260:ARG:O	7:EN:264:GLU:HG2	2.15	0.46
7:Eb:194:ARG:HE	7:Eb:194:ARG:N	2.13	0.46
7:Em:227:SER:OG	7:En:200:SER:OG	2.25	0.46
7:Ev:260:ARG:O	7:Ev:264:GLU:HG2	2.15	0.46
3:6:16:MET:HE1	3:6:76:TYR:HB2	1.97	0.46
3:6:68:TRP:CE2	7:Ef:148:PHE:CZ	2.98	0.46
5:AQ:86:ALA:HB2	5:AW:45:PHE:HE1	1.79	0.46
5:AR:44:LEU:HB2	5:AR:70:ALA:HB3	1.98	0.46
5:AS:36:LYS:HB3	5:AS:225:VAL:HG12	1.96	0.46
5:AV:115:THR:HB	5:AV:192:LEU:HD12	1.97	0.46
5:AY:68:LEU:HD11	5:S:17:THR:HG23	1.97	0.46
6:Ac:433:ILE:HD11	6:Ah:416:PHE:CZ	2.50	0.46
6:Ae:409:LEU:HD21	6:N:422:SER:HA	1.97	0.46
6:Ae:416:PHE:HZ	6:N:433:ILE:HD11	1.79	0.46
6:Ah:6:LEU:HD13	6:An:407:VAL:HG11	1.97	0.46
6:Ai:78:PRO:HA	6:Ai:392:ASN:HD22	1.80	0.46
6:An:39:ALA:HB1	6:As:365:GLY:HA2	1.97	0.46
6:As:38:PHE:CB	6:Ax:28:THR:HG22	2.44	0.46
6:H:183:PRO:HA	6:H:186:TYR:CZ	2.50	0.46
6:I:330:GLU:OE2	6:I:331:ASN:ND2	2.48	0.46
5:V:249:SER:OG	5:V:253:LYS:NZ	2.48	0.46
5:Y:240:VAL:O	5:Y:244:ASN:ND2	2.47	0.46
17:CI:175:PRO:HB2	14:A4:80:ALA:HA	1.96	0.46
13:A8:107:ASP:OD1	13:A8:107:ASP:N	2.47	0.46
14:Ce:133:MET:HB2	14:Cj:157:ASN:HD22	1.80	0.46
13:Cn:155:ARG:O	13:Cn:159:GLN:HG2	2.16	0.46
17:Cr:175:PRO:HB2	14:Ct:80:ALA:HA	1.96	0.46
13:Cs:155:ARG:O	13:Cs:159:GLN:HG2	2.16	0.46
14:Cy:133:MET:HB2	14:C4:157:ASN:HD22	1.80	0.46
17:C2:175:PRO:HB2	14:C4:80:ALA:HA	1.96	0.46
13:C3:155:ARG:O	13:C3:159:GLN:HG2	2.16	0.46
14:C4:133:MET:HB2	14:C9:157:ASN:HD22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B1:337:VAL:HG21	15:Bx:143:PHE:CE2	2.50	0.46
17:B5:67:PHE:CE2	17:Bz:86:MET:HE1	2.49	0.46
17:BB:86:MET:HE1	17:BG:67:PHE:CD2	2.49	0.46
17:BQ:86:MET:HE1	17:BV:67:PHE:CD2	2.49	0.46
14:BS:133:MET:CG	14:BX:157:ASN:HD21	2.26	0.46
15:BT:143:PHE:CE2	13:BW:337:VAL:HG21	2.50	0.46
14:Bc:133:MET:HB2	14:Bh:157:ASN:HD22	1.80	0.46
13:Bg:157:LEU:O	13:Bg:161:SER:OG	2.27	0.46
19:DS:143:ASN:O	19:DS:147:ARG:HG3	2.15	0.46
18:Ds:201:ARG:NH2	19:Dt:137:GLU:OE2	2.48	0.46
7:EU:260:ARG:O	7:EU:264:GLU:HG2	2.15	0.46
7:EX:176:GLN:NE2	7:Eb:243:HIS:O	2.24	0.46
7:Eb:167:LEU:O	7:Eb:171:ILE:HG12	2.15	0.46
7:Ei:182:VAL:O	7:Ei:183:LEU:HD13	2.15	0.46
7:Em:163:ARG:HE	7:Em:229:VAL:HG22	1.79	0.46
1:0:179:LEU:O	1:0:182:ASN:ND2	2.48	0.46
5:A:49:ILE:HD11	5:A:66:LEU:HD23	1.96	0.46
6:A2:414:ARG:HD2	6:Av:430:GLN:CD	2.41	0.46
6:A2:428:GLN:HE21	5:P:238:GLN:NE2	2.04	0.46
6:A3:41:VAL:O	6:A3:56:GLY:N	2.38	0.46
6:A3:409:LEU:HD21	6:Ax:422:SER:HA	1.98	0.46
5:Aa:235:ILE:CG2	6:Az:427:ASN:HD22	2.23	0.46
6:Ab:183:PRO:HA	6:Ab:186:TYR:CZ	2.50	0.46
6:Ad:37:GLU:HG2	6:Ai:29:TYR:HE2	1.78	0.46
6:Ah:39:ALA:HB1	6:Am:365:GLY:HA2	1.97	0.46
6:Ah:119:THR:HG23	6:Ah:123:GLU:O	2.15	0.46
6:Ai:116:TYR:CE1	6:Ai:146:ASN:HB2	2.50	0.46
6:Ar:329:ASP:OD2	6:Ar:333:SER:HB2	2.15	0.46
6:Au:402:MET:O	6:Au:406:LEU:HD23	2.15	0.46
6:Av:111:LEU:HD11	6:Av:147:ILE:HD12	1.97	0.46
6:Av:433:ILE:HD13	5:P:228:THR:HG23	1.97	0.46
6:Ay:16:LEU:HD13	6:Ay:16:LEU:HA	1.80	0.46
6:Ay:184:ASP:N	6:Ay:184:ASP:OD1	2.48	0.46
6:F:172:LEU:HD13	6:F:212:GLN:HA	1.97	0.46
5:Q:154:THR:HG23	5:Q:214:GLU:HB3	1.97	0.46
5:S:94:ASP:HB2	5:S:220:LEU:HD21	1.96	0.46
9:j:100:ASN:O	9:j:104:GLU:HG2	2.16	0.46
10:p:28:ASN:O	10:p:31:THR:OG1	2.32	0.46
14:CC:133:MET:HG3	14:CK:157:ASN:ND2	2.30	0.46
13:CJ:337:VAL:HG21	15:C0:143:PHE:CE2	2.50	0.46
14:A4:157:ASN:ND2	14:C9:133:MET:HG3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A7:175:PRO:HB2	14:A9:80:ALA:HA	1.96	0.46
17:Cc:175:PRO:HB2	14:Ce:80:ALA:HA	1.96	0.46
13:Cx:155:ARG:O	13:Cx:159:GLN:HG2	2.16	0.46
13:BH:334:ARG:HD3	13:BM:353:GLU:CG	2.43	0.46
13:BH:350:TYR:OH	13:BH:355:GLU:OE2	2.26	0.46
13:BM:334:ARG:HD3	13:BR:353:GLU:CG	2.43	0.46
14:Bc:133:MET:HG3	14:Bh:157:ASN:ND2	2.30	0.46
17:Bu:86:MET:HE1	17:Bz:67:PHE:CE2	2.50	0.46
19:DJ:63:VAL:HG22	19:DJ:78:TYR:CE1	2.50	0.46
19:DO:105:GLN:HE21	19:DO:105:GLN:HB2	1.50	0.46
18:DU:201:ARG:NH2	19:DV:137:GLU:OE2	2.49	0.46
19:Dh:156:ARG:HD3	19:Dh:158:TYR:HE2	1.79	0.46
18:Dj:161:LYS:HA	18:Dj:161:LYS:HD3	1.79	0.46
18:Dk:49:VAL:HG22	18:Dk:59:VAL:HG22	1.96	0.46
19:Dm:183:LYS:HE3	19:Dm:183:LYS:HB3	1.71	0.46
7:Ed:227:SER:O	7:Ee:200:SER:OG	2.29	0.46
7:Ek:182:VAL:HG13	7:Ek:203:VAL:HB	1.97	0.46
7:Er:210:GLY:O	7:Er:211:THR:OG1	2.31	0.46
7:Es:140:ASP:O	7:Es:144:GLN:HB2	2.16	0.46
2:2:206:PRO:CD	7:Ee:194:ARG:HH11	2.28	0.46
3:5:87:VAL:C	3:5:89:TYR:H	2.23	0.46
5:AX:70:ALA:HB1	10:n:71:VAL:HG21	1.97	0.46
5:AZ:43:ASP:OD1	5:AZ:43:ASP:N	2.37	0.46
6:Ab:130:VAL:HG22	6:Ab:347:GLY:HA2	1.98	0.46
6:Ab:401:ASP:O	6:Ab:405:GLU:HG2	2.16	0.46
6:Ah:131:ASP:OD1	6:Ah:131:ASP:N	2.47	0.46
6:Al:231:LYS:HB3	6:Al:281:THR:HB	1.97	0.46
6:Am:130:VAL:HG12	6:Am:137:VAL:HA	1.96	0.46
6:I:223:THR:HG22	6:I:232:PRO:HA	1.96	0.46
6:K:116:TYR:CE1	6:K:146:ASN:HB2	2.51	0.46
6:M:171:ASP:N	6:M:171:ASP:OD1	2.48	0.46
5:Z:94:ASP:HB2	5:Z:220:LEU:HD21	1.97	0.46
10:n:91:LEU:HD21	10:n:128:PRO:HG3	1.97	0.46
2:z:81:GLU:O	2:z:169:ARG:NH2	2.49	0.46
17:CA:86:MET:HE1	17:CF:67:PHE:CE2	2.49	0.46
14:CK:133:MET:HG3	14:CP:157:ASN:ND2	2.30	0.46
14:CK:133:MET:HB2	14:CP:157:ASN:HD22	1.80	0.46
17:CN:86:MET:HE1	17:CS:67:PHE:CE2	2.50	0.46
17:CS:175:PRO:HB2	14:CU:80:ALA:HA	1.96	0.46
13:Cd:157:LEU:O	13:Cd:161:SER:OG	2.27	0.46
15:Cf:143:PHE:CE2	13:Ci:337:VAL:HG21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ci:155:ARG:O	13:Ci:159:GLN:HG2	2.16	0.46
13:Ci:157:LEU:O	13:Ci:161:SER:OG	2.27	0.46
13:C3:107:ASP:OD1	13:C3:107:ASP:N	2.48	0.46
13:C8:155:ARG:O	13:C8:159:GLN:HG2	2.16	0.46
13:Bb:157:LEU:O	13:Bb:161:SER:OG	2.27	0.46
14:Bh:133:MET:HG3	14:Bm:157:ASN:ND2	2.30	0.46
14:Bh:133:MET:HB2	14:Bm:157:ASN:HD22	1.80	0.46
14:Bm:133:MET:HB2	14:Br:157:ASN:HD22	1.80	0.46
19:DB:63:VAL:HG22	19:DB:78:TYR:CE1	2.50	0.46
18:DE:201:ARG:NH2	19:DF:137:GLU:OE2	2.48	0.46
19:DG:143:ASN:O	19:DG:147:ARG:HG3	2.15	0.46
19:DZ:63:VAL:HG22	19:DZ:78:TYR:CE1	2.50	0.46
18:Dc:201:ARG:NH2	19:Dd:137:GLU:OE2	2.49	0.46
19:Dd:63:VAL:HG22	19:Dd:78:TYR:CE1	2.50	0.46
19:Dm:143:ASN:O	19:Dm:147:ARG:HG3	2.15	0.46
18:Do:49:VAL:HG22	18:Do:59:VAL:HG22	1.96	0.46
19:Dp:63:VAL:HG22	19:Dp:78:TYR:CE1	2.50	0.46
19:Dx:156:ARG:HD3	19:Dx:158:TYR:HE2	1.79	0.46
7:EI:260:ARG:O	7:EI:264:GLU:HG2	2.15	0.46
7:EQ:260:ARG:O	7:EQ:264:GLU:HG2	2.15	0.46
7:EX:167:LEU:HA	7:EX:167:LEU:HD23	1.66	0.46
7:Eg:163:ARG:HH12	7:Eh:183:LEU:HD12	1.80	0.46
1:0:129:ALA:HA	1:0:148:PRO:HB2	1.97	0.46
4:8:43:LEU:HB2	11:s:103:VAL:HG11	1.98	0.46
5:A:161:ARG:HD2	5:T:51:GLN:NE2	2.30	0.46
5:AV:99:GLY:O	5:AV:116:ARG:NH2	2.47	0.46
5:AY:99:GLY:O	5:AY:116:ARG:NH2	2.49	0.46
5:AZ:2:HIS:HD1	5:AZ:4:ALA:H	1.63	0.46
5:Aa:166:GLN:HG2	5:Aa:167:ASP:H	1.81	0.46
5:Aa:235:ILE:HG22	6:Az:427:ASN:ND2	2.29	0.46
6:Ab:238:GLY:O	6:Ab:241:GLN:NE2	2.48	0.46
6:Al:69:GLU:OE1	6:Al:82:ARG:NH2	2.47	0.46
6:An:141:GLU:H	6:An:141:GLU:HG3	1.64	0.46
6:Au:49:ASN:ND2	5:U:218:SER:OG	2.48	0.46
6:Ax:184:ASP:OD1	6:Ax:184:ASP:N	2.48	0.46
5:B:185:LEU:HB3	5:B:193:TYR:HB3	1.97	0.46
5:P:82:THR:HG22	5:P:224:ASN:HD22	1.79	0.46
5:W:184:GLY:O	5:W:196:THR:OG1	2.25	0.46
8:c:35:THR:O	8:c:92:ASN:ND2	2.48	0.46
10:o:21:LEU:HD23	10:o:39:ALA:HB2	1.97	0.46
14:B8:157:ASN:HD22	14:B2:133:MET:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CB:282:GLU:O	13:CB:286:SER:OG	2.31	0.46
14:A9:133:MET:HG3	14:BD:157:ASN:ND2	2.30	0.46
14:CP:133:MET:HB2	14:CU:157:ASN:HD22	1.80	0.46
15:CQ:143:PHE:CE2	13:CT:337:VAL:HG21	2.50	0.46
15:CV:143:PHE:CE2	13:CY:337:VAL:HG21	2.50	0.46
13:Cd:155:ARG:O	13:Cd:159:GLN:HG2	2.16	0.46
17:C7:175:PRO:HB2	14:C9:80:ALA:HA	1.96	0.46
13:BC:334:ARG:HD3	13:BH:353:GLU:CG	2.43	0.46
15:Bi:143:PHE:CE2	13:Bl:337:VAL:HG21	2.50	0.46
19:DB:156:ARG:HD3	19:DB:158:TYR:HE2	1.80	0.46
18:DM:201:ARG:NH2	19:DN:137:GLU:OE2	2.48	0.46
19:DR:63:VAL:HG22	19:DR:78:TYR:CE1	2.50	0.46
19:De:143:ASN:O	19:De:147:ARG:HG3	2.15	0.46
19:Dh:63:VAL:HG22	19:Dh:78:TYR:CE1	2.50	0.46
18:Do:201:ARG:NH2	19:Dp:137:GLU:OE2	2.48	0.46
7:Dz:260:ARG:O	7:Dz:264:GLU:HG2	2.15	0.46
7:EW:260:ARG:O	7:EW:264:GLU:HG2	2.15	0.46
7:EX:179:LYS:HB3	7:EX:206:THR:HG23	1.96	0.46
7:EZ:202:SER:HB3	7:Ea:224:MET:HG3	1.96	0.46
7:Ef:201:ALA:HB2	7:Ef:232:MET:HE1	1.98	0.46
7:Ek:234:THR:HA	7:Ek:237:ILE:HD13	1.98	0.46
2:2:186:GLN:NE2	2:2:287:PHE:O	2.49	0.46
5:A:44:LEU:HD13	9:h:81:TYR:HB2	1.98	0.46
6:A3:49:ASN:HD21	5:AW:218:SER:CB	2.11	0.46
5:AX:153:GLY:HA2	5:AY:56:SER:HA	1.98	0.46
5:AY:43:ASP:OD1	5:AY:43:ASP:N	2.48	0.46
5:Aa:9:LYS:HG3	5:V:232:VAL:HG11	1.96	0.46
5:Aa:168:ASN:ND2	6:Au:372:GLN:NE2	2.56	0.46
6:Ae:371:THR:H	6:Ae:374:SER:HG	1.64	0.46
6:Ao:49:ASN:O	6:Ao:50:ALA:HB3	2.16	0.46
6:Aq:429:LEU:HD21	6:Av:413:GLN:HG3	1.97	0.46
6:Av:371:THR:CG2	5:P:161:ARG:NH2	2.67	0.46
6:Ay:239:ASP:OD2	6:Ay:250:THR:OG1	2.34	0.46
5:B:40:VAL:HG11	10:o:116:ALA:HB1	1.98	0.46
6:I:116:TYR:CE1	6:I:146:ASN:HB2	2.50	0.46
6:I:401:ASP:O	6:I:405:GLU:HG2	2.16	0.46
6:J:47:PHE:O	6:J:48:THR:OG1	2.31	0.46
6:K:276:PRO:HA	6:K:282:PRO:HG3	1.97	0.46
6:M:183:PRO:HA	6:M:186:TYR:CZ	2.51	0.46
6:O:132:PRO:HB3	6:O:344:VAL:HG13	1.97	0.46
6:O:401:ASP:O	6:O:405:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:114:TYR:HE2	5:P:195:PRO:HD3	1.81	0.46
5:S:154:THR:HG23	5:S:214:GLU:HB3	1.97	0.46
5:U:83:HIS:CE1	5:U:99:GLY:H	2.34	0.46
5:Y:96:MET:HG3	5:Y:221:GLU:HB2	1.98	0.46
10:p:131:LEU:HD23	10:p:148:VAL:HG11	1.98	0.46
11:t:40:ALA:HB1	22:t:202:PGT:H342	1.97	0.46
13:CT:148:ASP:OD2	13:CT:256:THR:OG1	2.28	0.46
17:CX:175:PRO:HB2	14:CZ:80:ALA:HA	1.96	0.46
14:CZ:133:MET:HB2	14:Ce:157:ASN:HD22	1.80	0.46
13:Ci:107:ASP:OD1	13:Ci:107:ASP:N	2.48	0.46
13:Cs:107:ASP:OD1	13:Cs:107:ASP:N	2.48	0.46
14:BN:64:PRO:HB2	14:BS:37:VAL:HG13	1.98	0.46
14:BS:64:PRO:HB2	14:BX:37:VAL:HG13	1.98	0.46
19:Dl:175:VAL:HG12	19:Dm:124:VAL:HG12	1.98	0.46
7:Eg:167:LEU:O	7:Eg:171:ILE:HG12	2.16	0.46
7:Eh:163:ARG:NH2	7:Ei:184:LEU:O	2.49	0.46
7:E3:260:ARG:O	7:E3:264:GLU:HG2	2.15	0.46
22:2:301:PGT:H31	8:d:5:PHE:CE2	2.49	0.46
2:3:264:PRO:HG2	4:8:196:LEU:HD11	1.98	0.46
4:8:85:MET:HG3	4:8:252:ILE:HG23	1.98	0.46
6:A1:49:ASN:O	6:A1:50:ALA:CB	2.63	0.46
7:AI:342:GLN:O	7:AI:343:PRO:C	2.59	0.46
5:AR:188:ILE:HD13	5:AR:194:LEU:HG	1.97	0.46
5:AS:95:MET:O	5:AS:118:GLY:HA3	2.16	0.46
5:AZ:181:ASN:ND2	5:T:122:LEU:O	2.49	0.46
6:An:130:VAL:HG22	6:An:347:GLY:HA2	1.98	0.46
6:At:172:LEU:HB3	6:At:212:GLN:HB2	1.98	0.46
6:Aw:402:MET:O	6:Aw:406:LEU:HD23	2.16	0.46
6:Ay:40:ASP:OD2	6:Ay:42:TYR:CE1	2.69	0.46
6:Ay:46:LEU:HD12	5:Y:149:SER:CA	2.46	0.46
6:F:109:PHE:HE1	6:F:119:THR:HG22	1.80	0.46
5:Q:151:THR:HG23	5:Q:159:SER:HB2	1.98	0.46
5:U:94:ASP:HB2	5:U:220:LEU:HD21	1.96	0.46
5:W:240:VAL:O	5:W:244:ASN:ND2	2.47	0.46
8:d:15:THR:HG23	8:d:45:PHE:HZ	1.81	0.46
13:B7:282:GLU:O	13:B7:286:SER:OG	2.31	0.46
17:CA:67:PHE:CE2	17:B5:86:MET:HE1	2.49	0.46
17:CF:86:MET:HE1	17:CN:67:PHE:CE2	2.49	0.46
13:CO:148:ASP:OD2	13:CO:256:THR:OG1	2.28	0.46
13:CT:282:GLU:O	13:CT:286:SER:OG	2.31	0.46
13:CT:350:TYR:OH	13:CT:355:GLU:OE2	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CZ:133:MET:HG3	14:Ce:157:ASN:ND2	2.30	0.46
15:Ca:143:PHE:CE2	13:Cd:337:VAL:HG21	2.50	0.46
13:BR:362:ASN:HD22	18:Dk:89:ILE:CD1	2.15	0.46
14:BX:64:PRO:HB2	14:Bc:37:VAL:HG13	1.98	0.46
14:Bm:133:MET:CG	14:Br:157:ASN:HD21	2.26	0.46
18:DM:245:ARG:HG3	18:DM:258:ILE:HG21	1.98	0.46
18:DQ:245:ARG:HG3	18:DQ:258:ILE:HG21	1.98	0.46
19:Dh:175:VAL:HG12	19:Di:124:VAL:HG12	1.98	0.46
19:Di:143:ASN:O	19:Di:147:ARG:HG3	2.15	0.46
19:Dt:156:ARG:HD3	19:Dt:158:TYR:HE2	1.80	0.46
19:Dt:175:VAL:HG12	19:Du:124:VAL:HG12	1.98	0.46
19:Dx:205:LYS:O	19:Dx:207:ARG:NH1	2.49	0.46
7:D3:260:ARG:O	7:D3:264:GLU:HG2	2.15	0.46
7:EZ:200:SER:OG	7:Ea:227:SER:O	2.24	0.46
7:Ei:188:LYS:HA	7:Ei:188:LYS:HD3	1.75	0.46
7:En:164:GLU:HG2	7:En:184:LEU:HD13	1.96	0.46
7:Es:239:VAL:N	7:Es:248:SER:OG	2.48	0.46
6:A1:132:PRO:HB3	6:A1:344:VAL:HG13	1.98	0.46
6:A3:196:ASP:OD1	6:A3:200:GLN:N	2.41	0.46
6:A3:356:ASN:ND2	5:Q:122:LEU:O	2.49	0.46
5:AV:49:ILE:HG23	5:AV:66:LEU:HB3	1.97	0.46
5:AZ:18:ASN:HD22	5:AZ:39:ALA:HB3	1.80	0.46
5:Aa:185:LEU:HB3	5:Aa:193:TYR:HB3	1.97	0.46
6:Ad:117:MET:HE3	6:Ad:125:LEU:HD23	1.96	0.46
6:Ae:46:LEU:HD12	6:Au:325:LYS:HA	1.98	0.46
6:Ah:370:SER:OG	6:Ah:375:GLY:O	2.34	0.46
6:Ai:57:GLY:H	6:An:21:ASN:HD22	1.62	0.46
6:Ak:276:PRO:HA	6:Ak:282:PRO:HG3	1.97	0.46
6:Ap:351:LEU:HA	6:Ap:351:LEU:HD12	1.82	0.46
6:Aq:329:ASP:OD2	6:Aq:333:SER:HB2	2.16	0.46
6:Ar:151:PHE:CE2	6:Ar:344:VAL:HG21	2.51	0.46
6:Ax:361:ASP:HB3	5:S:161:ARG:HH12	1.81	0.46
6:Az:327:ASP:OD1	6:Az:327:ASP:N	2.48	0.46
6:G:79:MET:HE3	6:G:111:LEU:HD21	1.98	0.46
6:G:101:ASN:OD1	6:G:377:LYS:NZ	2.49	0.46
6:J:151:PHE:CE2	6:J:344:VAL:HG21	2.50	0.46
5:S:19:ILE:HG23	5:S:234:MET:HE1	1.97	0.46
5:a:161:ARG:HH11	5:a:168:ASN:ND2	2.14	0.46
10:o:28:ASN:O	10:o:31:THR:OG1	2.34	0.46
13:CJ:155:ARG:O	13:CJ:159:GLN:HG2	2.16	0.46
13:A8:155:ARG:O	13:A8:159:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CY:155:ARG:O	13:CY:159:GLN:HG2	2.16	0.46
14:Ct:133:MET:HG3	14:Cy:157:ASN:ND2	2.30	0.46
14:BD:133:MET:HB2	14:BI:157:ASN:HD22	1.80	0.46
14:BI:64:PRO:HB2	14:BN:37:VAL:HG13	1.98	0.46
14:Bc:64:PRO:HB2	14:Bh:37:VAL:HG13	1.98	0.46
13:Bg:155:ARG:O	13:Bg:159:GLN:HG2	2.16	0.46
13:Bl:155:ARG:O	13:Bl:159:GLN:HG2	2.16	0.46
19:DS:183:LYS:HE3	19:DS:183:LYS:HB3	1.71	0.46
18:DY:201:ARG:NH2	19:DZ:137:GLU:OE2	2.48	0.46
19:Dp:175:VAL:HG12	19:Dq:124:VAL:HG12	1.98	0.46
7:Ec:227:SER:O	7:Ed:200:SER:OG	2.33	0.46
7:Ec:227:SER:OG	7:Ed:201:ALA:O	2.21	0.46
7:Ef:150:VAL:HG12	7:Ef:154:LEU:HD23	1.98	0.46
7:Em:182:VAL:O	7:Em:183:LEU:HD13	2.16	0.46
6:A1:171:ASP:OD1	6:A1:171:ASP:N	2.47	0.46
6:A3:45:SER:HG	5:X:83:HIS:CE1	2.33	0.46
5:AR:36:LYS:HD3	5:AR:225:VAL:HA	1.98	0.46
5:AW:32:VAL:HG11	5:AW:220:LEU:HD22	1.98	0.46
5:AZ:24:ASN:ND2	6:Az:55:GLY:HA3	2.31	0.46
5:Aa:226:ASN:ND2	6:Az:13:GLN:HE22	2.02	0.46
6:Ad:415:ASN:O	6:Ad:419:ASN:ND2	2.46	0.46
6:Al:401:ASP:O	6:Al:405:GLU:HG2	2.17	0.46
6:An:151:PHE:CE2	6:An:344:VAL:HG21	2.50	0.46
6:Aq:4:VAL:HG12	6:Aq:56:GLY:C	2.41	0.46
6:At:218:TRP:NE1	6:At:303:GLN:OE1	2.44	0.46
6:Av:3:TYR:CE1	5:P:87:GLN:OE1	2.69	0.46
6:Aw:183:PRO:HA	6:Aw:186:TYR:CZ	2.51	0.46
6:Az:59:GLN:CD	5:U:219:MET:CE	2.89	0.46
6:O:285:MET:HB3	6:O:288:ALA:HB3	1.98	0.46
5:R:123:ASN:ND2	5:R:127:THR:HB	2.30	0.46
5:U:43:ASP:OD1	5:U:43:ASP:N	2.43	0.46
5:a:89:THR:OG1	5:a:94:ASP:OD2	2.25	0.46
2:y:183:MET:HE2	2:y:214:LEU:HG	1.98	0.46
2:z:192:LEU:HB3	7:EX:192:PHE:CE2	2.51	0.46
14:A4:133:MET:CG	14:A9:157:ASN:HD21	2.26	0.46
14:CU:133:MET:HB2	14:CZ:157:ASN:HD22	1.80	0.46
14:B2:157:ASN:ND2	14:Bw:133:MET:HG3	2.30	0.46
14:BD:133:MET:HG3	14:BI:157:ASN:ND2	2.30	0.46
14:BI:133:MET:HB2	14:BN:157:ASN:HD22	1.80	0.46
13:BR:334:ARG:HD3	13:BW:353:GLU:CG	2.43	0.46
13:Bb:155:ARG:O	13:Bb:159:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bq:155:ARG:O	13:Bq:159:GLN:HG2	2.16	0.46
18:DH:247:TYR:O	18:DH:250:SER:OG	2.20	0.46
18:DI:245:ARG:HG3	18:DI:258:ILE:HG21	1.98	0.46
19:Di:100:GLU:HG2	19:Di:104:HIS:CE1	2.51	0.46
7:Eh:245:ARG:HG3	7:Eh:247:LEU:HD21	1.97	0.46
2:1:208:ASP:OD1	2:1:208:ASP:N	2.49	0.45
2:3:128:THR:HG22	4:8:98:LEU:HG	1.98	0.45
4:8:25:MET:HE1	4:8:148:LEU:HD23	1.98	0.45
6:A3:425:VAL:HG13	5:Q:238:GLN:CD	2.41	0.45
7:AK:340:SER:HA	7:AK:349:ILE:HD11	1.97	0.45
5:AV:153:GLY:N	5:AV:157:GLU:O	2.34	0.45
5:AZ:226:ASN:O	5:AZ:230:GLU:HG2	2.17	0.45
5:Aa:56:SER:O	5:Aa:57:SER:HB3	2.16	0.45
6:Ac:37:GLU:HG2	6:Ah:29:TYR:HE2	1.80	0.45
6:Ah:141:GLU:H	6:Ah:141:GLU:HG3	1.64	0.45
6:Aj:141:GLU:H	6:Aj:141:GLU:HG3	1.66	0.45
6:Ao:239:ASP:OD1	6:Ao:239:ASP:N	2.39	0.45
6:At:429:LEU:HD21	6:Ay:413:GLN:HG3	1.97	0.45
5:B:123:ASN:ND2	5:B:127:THR:HB	2.31	0.45
5:C:115:THR:HB	5:C:192:LEU:HD12	1.98	0.45
5:Q:94:ASP:HB2	5:Q:220:LEU:HD21	1.98	0.45
5:X:166:GLN:HG2	5:X:167:ASP:H	1.81	0.45
9:k:70:ILE:HD13	10:p:51:HIS:HB3	1.97	0.45
10:p:9:MET:HE3	10:p:9:MET:HB3	1.82	0.45
2:y:141:LEU:HD11	2:y:280:LEU:HD22	1.98	0.45
13:B7:148:ASP:OD2	13:B7:256:THR:OG1	2.28	0.45
14:B8:133:MET:HB2	14:CC:157:ASN:HD22	1.80	0.45
14:B8:157:ASN:HD21	14:B2:133:MET:CG	2.26	0.45
14:CC:64:PRO:HB2	14:CK:37:VAL:HG13	1.98	0.45
13:CT:155:ARG:O	13:CT:159:GLN:HG2	2.16	0.45
14:Ce:133:MET:HG3	14:Cj:157:ASN:ND2	2.30	0.45
14:BD:64:PRO:HB2	14:BI:37:VAL:HG13	1.98	0.45
13:Bv:155:ARG:O	13:Bv:159:GLN:HG2	2.16	0.45
19:DK:100:GLU:HG2	19:DK:104:HIS:CE1	2.51	0.45
18:DL:247:TYR:O	18:DL:250:SER:OG	2.20	0.45
19:DS:100:GLU:HG2	19:DS:104:HIS:CE1	2.52	0.45
18:Dg:161:LYS:HD3	18:Dg:161:LYS:HA	1.75	0.45
18:Dr:222:THR:HG22	18:Dr:284:VAL:HG22	1.98	0.45
19:Du:100:GLU:HG2	19:Du:104:HIS:CE1	2.51	0.45
7:EZ:185:ALA:HB2	7:Ea:228:ALA:O	2.16	0.45
7:Eh:167:LEU:O	7:Eh:171:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ei:184:LEU:HD21	7:Ei:229:VAL:HG21	1.98	0.45
5:AR:48:ASN:HB3	5:AR:51:GLN:HG3	1.98	0.45
5:AV:154:THR:HG22	5:AZ:57:SER:HB3	1.98	0.45
6:Af:321:GLY:HA3	6:Af:338:TYR:HB3	1.98	0.45
6:Aq:111:LEU:HD11	6:Aq:147:ILE:HD12	1.98	0.45
6:Aq:285:MET:HB3	6:Aq:288:ALA:HB3	1.99	0.45
6:Ax:69:GLU:OE1	6:Ax:82:ARG:NH2	2.49	0.45
5:B:251:VAL:HG22	10:o:19:LEU:HD21	1.97	0.45
6:E:40:ASP:H	6:J:366:THR:HG23	1.80	0.45
6:F:130:VAL:HG22	6:F:347:GLY:HA2	1.99	0.45
6:G:172:LEU:HB3	6:G:212:GLN:HB2	1.98	0.45
6:G:340:ASN:OD1	6:G:340:ASN:N	2.49	0.45
6:G:401:ASP:O	6:G:405:GLU:HG2	2.16	0.45
6:J:89:PHE:HB2	6:J:104:THR:HG22	1.97	0.45
5:T:166:GLN:HG2	5:T:167:ASP:H	1.81	0.45
5:U:37:SER:HB3	5:U:77:THR:HG23	1.97	0.45
9:i:52:GLU:O	9:i:53:LEU:C	2.59	0.45
11:t:53:ASP:OD2	11:t:57:ARG:NH1	2.50	0.45
2:y:208:ASP:OD1	2:y:208:ASP:N	2.42	0.45
14:B8:64:PRO:HB2	14:CC:37:VAL:HG13	1.98	0.45
14:CC:133:MET:HB2	14:CK:157:ASN:HD22	1.80	0.45
13:A8:334:ARG:HD3	13:BC:353:GLU:CG	2.43	0.45
14:CK:64:PRO:HB2	14:CP:37:VAL:HG13	1.98	0.45
14:CP:243:GLN:NE2	14:CU:202:THR:HG23	2.32	0.45
14:Co:243:GLN:NE2	14:Ct:202:THR:HG23	2.32	0.45
13:BC:155:ARG:O	13:BC:159:GLN:HG2	2.16	0.45
13:BM:206:VAL:HG21	14:BN:36:ALA:HA	1.98	0.45
13:BW:155:ARG:O	13:BW:159:GLN:HG2	2.16	0.45
19:DB:175:VAL:HG12	19:DC:124:VAL:HG12	1.98	0.45
18:DU:256:ASP:OD1	18:DU:256:ASP:N	2.32	0.45
19:De:100:GLU:HG2	19:De:104:HIS:CE1	2.51	0.45
18:Dv:222:THR:HG22	18:Dv:284:VAL:HG22	1.98	0.45
19:Dx:175:VAL:HG12	19:Dy:124:VAL:HG12	1.98	0.45
7:ER:369:LYS:HE3	7:ER:369:LYS:HB3	1.85	0.45
7:EX:199:ALA:HB3	7:EX:232:MET:H	1.81	0.45
7:EZ:224:MET:HE3	7:EZ:224:MET:HB3	1.77	0.45
7:Ee:153:ARG:HH21	7:Ee:156:GLN:CD	2.24	0.45
7:Ee:190:SER:O	7:Ee:191:VAL:C	2.57	0.45
7:Ef:194:ARG:CZ	7:Ef:194:ARG:HA	2.46	0.45
7:Ej:178:ARG:NH1	7:Ej:207:LEU:O	2.49	0.45
7:Ej:239:VAL:HB	7:Ej:247:LEU:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:El:167:LEU:HD23	7:El:167:LEU:HA	1.80	0.45
1:0:92:LYS:HG2	1:0:112:LYS:HD2	1.97	0.45
2:2:263:LEU:HD23	2:z:234:PHE:HE2	1.80	0.45
6:A1:239:ASP:OD2	6:A1:250:THR:OG1	2.33	0.45
6:A2:369:ASP:OD1	6:A2:370:SER:N	2.49	0.45
6:A2:401:ASP:OD2	6:Av:13:GLN:NE2	2.49	0.45
6:A3:156:GLN:HB2	6:A3:292:GLN:NE2	2.31	0.45
6:A3:401:ASP:OD2	6:Aw:13:GLN:NE2	2.47	0.45
5:AP:83:HIS:CD2	5:AP:99:GLY:H	2.35	0.45
5:AV:185:LEU:HB3	5:AV:193:TYR:HB3	1.97	0.45
6:Ab:276:PRO:HA	6:Ab:282:PRO:HG3	1.98	0.45
6:Ab:402:MET:O	6:Ab:406:LEU:HD23	2.16	0.45
6:Ae:130:VAL:HG22	6:Ae:347:GLY:HA2	1.98	0.45
6:Af:68:HIS:CD2	6:Af:399:ASN:HB2	2.52	0.45
6:Ai:397:GLN:HG3	6:L:3:TYR:CZ	2.51	0.45
6:Aj:188:ARG:HG3	6:Aj:308:PHE:CG	2.52	0.45
6:Ak:6:LEU:HD13	6:Aq:407:VAL:HG11	1.98	0.45
6:Am:433:ILE:HD11	6:Ar:416:PHE:CZ	2.52	0.45
6:An:65:GLN:HE21	6:An:362:LYS:HE2	1.81	0.45
6:An:329:ASP:OD2	6:An:333:SER:HB2	2.16	0.45
6:Au:183:PRO:HA	6:Au:186:TYR:CZ	2.51	0.45
6:Az:151:PHE:CE2	6:Az:344:VAL:HG21	2.51	0.45
6:D:109:PHE:CE1	6:D:119:THR:HG22	2.51	0.45
6:M:276:PRO:HA	6:M:282:PRO:HG3	1.97	0.45
5:R:103:PHE:HB2	5:R:115:THR:HG23	1.99	0.45
5:S:29:ALA:HA	5:S:225:VAL:HG21	1.98	0.45
5:S:48:ASN:HD21	5:S:51:GLN:NE2	2.13	0.45
5:S:56:SER:O	5:S:57:SER:HB3	2.16	0.45
14:B8:243:GLN:NE2	14:CC:202:THR:HG23	2.32	0.45
13:CB:148:ASP:OD2	13:CB:256:THR:OG1	2.28	0.45
14:A9:133:MET:CG	14:BD:157:ASN:HD21	2.26	0.45
14:CP:64:PRO:HB2	14:CU:37:VAL:HG13	1.98	0.45
14:CZ:243:GLN:NE2	14:Ce:202:THR:HG23	2.32	0.45
14:Cy:243:GLN:NE2	14:C4:202:THR:HG23	2.32	0.45
18:DA:292:GLN:OE1	18:DA:292:GLN:N	2.48	0.45
13:BH:155:ARG:O	13:BH:159:GLN:HG2	2.16	0.45
14:BI:133:MET:HG3	14:BN:157:ASN:ND2	2.30	0.45
14:Bh:64:PRO:HB2	14:Bm:37:VAL:HG13	1.98	0.45
13:Bv:206:VAL:HG21	14:Bw:36:ALA:HA	1.98	0.45
19:DC:100:GLU:HG2	19:DC:104:HIS:CE1	2.51	0.45
19:DF:57:GLN:HG3	19:DF:58:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DU:245:ARG:HG3	18:DU:258:ILE:HG21	1.98	0.45
19:DW:105:GLN:HE21	19:DW:105:GLN:HB2	1.50	0.45
19:Dd:175:VAL:HG12	19:De:124:VAL:HG12	1.98	0.45
18:Dn:222:THR:HG22	18:Dn:284:VAL:HG22	1.98	0.45
18:Dw:161:LYS:HA	18:Dw:161:LYS:HD3	1.75	0.45
7:Ei:189:HIS:NE2	7:Ej:197:GLN:OE1	2.50	0.45
7:Et:229:VAL:HB	7:Et:232:MET:SD	2.57	0.45
3:5:19:ILE:HG21	3:5:72:MET:HE1	1.98	0.45
7:AF:344:PRO:O	7:AF:345:ALA:C	2.57	0.45
5:AT:93:LEU:HD13	5:AT:121:THR:HA	1.97	0.45
5:AW:94:ASP:HB2	5:AW:220:LEU:HD21	1.97	0.45
5:AX:240:VAL:O	5:AX:244:ASN:ND2	2.49	0.45
6:Ah:129:GLN:HB2	6:Ah:143:GLN:NE2	2.32	0.45
6:Ap:83:VAL:HG23	6:Ap:89:PHE:CE2	2.52	0.45
6:Ay:171:ASP:OD1	6:Ay:171:ASP:N	2.50	0.45
6:Az:276:PRO:HA	6:Az:282:PRO:HG3	1.99	0.45
5:B:181:ASN:ND2	10:o:107:VAL:O	2.49	0.45
6:E:37:GLU:HG2	6:J:29:TYR:HE2	1.81	0.45
6:J:223:THR:HA	6:J:232:PRO:HA	1.98	0.45
6:N:183:PRO:HA	6:N:186:TYR:CZ	2.52	0.45
12:x:76:ALA:CB	7:Eo:152:GLN:NE2	2.71	0.45
13:CJ:206:VAL:HG21	14:A4:36:ALA:HA	1.98	0.45
14:A9:64:PRO:HB2	14:BD:37:VAL:HG13	1.98	0.45
13:CO:155:ARG:O	13:CO:159:GLN:HG2	2.16	0.45
14:CU:64:PRO:HB2	14:CZ:37:VAL:HG13	1.98	0.45
13:CY:97:ARG:HE	13:CY:99:LYS:HZ3	1.65	0.45
13:Cd:92:SER:HB3	13:Cd:103:LYS:HB3	1.99	0.45
13:Cn:157:LEU:O	13:Cn:161:SER:OG	2.27	0.45
13:Cx:92:SER:HB3	13:Cx:103:LYS:HB3	1.99	0.45
14:C4:133:MET:HG3	14:C9:157:ASN:ND2	2.30	0.45
18:DA:185:LEU:HB3	18:DA:198:SER:HB3	1.99	0.45
13:B1:155:ARG:O	13:B1:159:GLN:HG2	2.16	0.45
13:Bl:228:ASP:OD2	13:Bl:231:THR:HG22	2.17	0.45
18:DI:100:HIS:O	18:DI:133:ARG:NH2	2.38	0.45
18:Dc:45:GLU:HG3	18:Dc:63:ARG:HG3	1.99	0.45
19:Dl:122:THR:HG22	19:Dl:123:LEU:HG	1.98	0.45
19:Dm:100:GLU:HG2	19:Dm:104:HIS:CE1	2.51	0.45
18:Do:292:GLN:OE1	18:Do:292:GLN:N	2.48	0.45
18:Ds:245:ARG:HG3	18:Ds:258:ILE:HG21	1.98	0.45
19:Dt:122:THR:HG22	19:Dt:123:LEU:HG	1.98	0.45
7:En:153:ARG:O	7:En:157:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:90:LEU:O	2:3:94:THR:OG1	2.34	0.45
6:A2:41:VAL:O	6:A2:42:TYR:CD1	2.69	0.45
6:A3:28:THR:HG22	6:Ax:38:PHE:HB2	1.98	0.45
6:A3:183:PRO:HA	6:A3:186:TYR:CZ	2.52	0.45
6:A3:385:GLY:O	5:Q:163:ARG:HB2	2.17	0.45
6:A3:434:LEU:HD11	5:S:243:MET:HE1	1.97	0.45
5:AP:18:ASN:HB2	5:AP:41:PHE:HZ	1.81	0.45
5:AP:87:GLN:NE2	5:AS:38:ARG:HH22	2.12	0.45
5:AZ:95:MET:O	5:AZ:118:GLY:HA3	2.17	0.45
6:Ab:285:MET:HB3	6:Ab:288:ALA:HB3	1.99	0.45
6:Ac:238:GLY:O	6:Ac:241:GLN:NE2	2.49	0.45
6:Ag:360:LEU:HB3	6:Ag:368:TRP:HB3	1.97	0.45
6:Ah:130:VAL:HG12	6:Ah:137:VAL:HA	1.98	0.45
6:Ah:401:ASP:O	6:Ah:405:GLU:HG2	2.17	0.45
6:Ao:21:ASN:O	6:Ao:25:ASN:ND2	2.49	0.45
6:Ao:47:PHE:CE2	6:Az:67:PHE:HB2	2.50	0.45
6:Au:98:PRO:HD2	6:Au:99:GLN:OE1	2.17	0.45
6:Au:429:LEU:HD21	6:Az:413:GLN:HG3	1.98	0.45
6:E:401:ASP:O	6:E:405:GLU:HG2	2.16	0.45
6:J:369:ASP:OD1	6:J:370:SER:N	2.49	0.45
5:R:184:GLY:O	5:R:196:THR:OG1	2.30	0.45
8:e:20:GLU:OE2	11:r:68:SER:OG	2.34	0.45
8:e:30:ILE:HG23	8:e:96:LEU:HD11	1.98	0.45
10:q:18:ALA:HB2	10:q:59:THR:HG21	1.99	0.45
11:v:87:ILE:HD12	22:v:202:PGT:H351	1.98	0.45
13:B7:92:SER:HB3	13:B7:103:LYS:HB3	1.99	0.45
13:CT:92:SER:HB3	13:CT:103:LYS:HB3	1.99	0.45
13:Cn:92:SER:HB3	13:Cn:103:LYS:HB3	1.99	0.45
18:DA:67:LYS:HB3	18:DA:67:LYS:HE2	1.76	0.45
13:B6:92:SER:HB3	13:B6:103:LYS:HB3	1.99	0.45
13:BM:155:ARG:O	13:BM:159:GLN:HG2	2.16	0.45
13:Bb:228:ASP:OD2	13:Bb:231:THR:HG22	2.17	0.45
13:Bb:362:ASN:HD22	18:Do:89:ILE:CD1	2.15	0.45
13:Bg:206:VAL:HG21	14:Bh:36:ALA:HA	1.98	0.45
13:Bg:228:ASP:OD2	13:Bg:231:THR:HG22	2.17	0.45
13:Bq:228:ASP:OD2	13:Bq:231:THR:HG22	2.17	0.45
13:Bv:228:ASP:OD2	13:Bv:231:THR:HG22	2.17	0.45
19:DN:57:GLN:HG3	19:DN:58:LEU:HD22	1.99	0.45
18:Db:279:ASP:OD1	18:Db:282:ARG:NH2	2.50	0.45
19:Dd:205:LYS:O	19:Dd:207:ARG:NH1	2.49	0.45
18:Dg:45:GLU:HG3	18:Dg:63:ARG:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dg:201:ARG:NH2	19:Dh:137:GLU:OE2	2.48	0.45
18:Dw:245:ARG:HG3	18:Dw:258:ILE:HG21	1.98	0.45
7:EY:153:ARG:O	7:EY:157:GLU:HG2	2.15	0.45
7:Ea:172:GLU:OE2	7:Ea:179:LYS:HA	2.17	0.45
7:Ec:171:ILE:HD12	7:Ec:221:ILE:HD12	1.98	0.45
7:Ec:227:SER:OG	7:Ed:200:SER:OG	2.26	0.45
3:5:1:MET:HE2	3:5:87:VAL:HG11	1.98	0.45
6:A1:42:TYR:CE1	5:Aa:187:PRO:CB	3.00	0.45
6:A2:59:GLN:OE1	5:W:219:MET:CE	2.65	0.45
5:AT:28:ASN:ND2	5:a:43:ASP:HB3	2.32	0.45
5:AZ:188:ILE:HD13	5:AZ:194:LEU:HG	1.99	0.45
6:Ab:69:GLU:OE1	6:Ab:82:ARG:NH2	2.49	0.45
6:Ab:433:ILE:HD11	6:Ag:416:PHE:HZ	1.82	0.45
6:Ac:117:MET:HE3	6:Ac:125:LEU:HD23	1.99	0.45
6:Am:285:MET:HB3	6:Am:288:ALA:HB3	1.97	0.45
6:At:16:LEU:HD22	6:At:412:ALA:HB1	1.99	0.45
6:Av:46:LEU:H	6:Av:46:LEU:HD12	1.82	0.45
6:E:172:LEU:HB3	6:E:212:GLN:HB2	1.98	0.45
6:H:171:ASP:N	6:H:171:ASP:OD1	2.49	0.45
6:J:276:PRO:HA	6:J:282:PRO:HG3	1.97	0.45
6:K:174:ASP:HB3	6:K:177:GLN:HB2	1.99	0.45
6:M:109:PHE:HE1	6:M:119:THR:HG22	1.81	0.45
6:O:28:THR:OG1	6:O:31:PHE:HB2	2.16	0.45
5:T:146:ASP:HB3	5:T:162:VAL:HG13	1.99	0.45
5:X:176:ILE:HG13	5:X:212:LEU:HD22	1.97	0.45
5:a:123:ASN:OD1	5:a:127:THR:N	2.50	0.45
8:b:126:LYS:HE2	11:v:82:ASP:OD1	2.16	0.45
14:B8:37:VAL:HG13	14:B2:64:PRO:HB2	1.98	0.45
14:CZ:64:PRO:HB2	14:Ce:37:VAL:HG13	1.98	0.45
14:Ce:243:GLN:NE2	14:Cj:202:THR:HG23	2.32	0.45
13:Ci:362:ASN:O	18:DL:91:MET:HE1	2.17	0.45
13:Cs:362:ASN:O	18:DP:91:MET:HE1	2.17	0.45
13:Cx:107:ASP:OD1	13:Cx:107:ASP:N	2.48	0.45
13:C3:362:ASN:O	18:DT:91:MET:HE1	2.17	0.45
13:C8:92:SER:HB3	13:C8:103:LYS:HB3	1.99	0.45
13:B1:228:ASP:OD2	13:B1:231:THR:HG22	2.17	0.45
13:B6:228:ASP:OD2	13:B6:231:THR:HG22	2.17	0.45
14:BN:243:GLN:NE2	14:BS:202:THR:HG23	2.31	0.45
13:BR:155:ARG:O	13:BR:159:GLN:HG2	2.16	0.45
13:BW:228:ASP:OD2	13:BW:231:THR:HG22	2.17	0.45
13:Bv:308:ARG:HB3	13:Bv:351:GLU:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Bw:109:VAL:HB	14:Bw:177:ILE:HG23	1.99	0.45
18:DE:245:ARG:HG3	18:DE:258:ILE:HG21	1.98	0.45
19:DJ:57:GLN:HG3	19:DJ:58:LEU:HD22	1.99	0.45
19:DK:130:ARG:O	19:DK:133:PRO:HD2	2.17	0.45
19:DR:57:GLN:HG3	19:DR:58:LEU:HD22	1.99	0.45
19:DS:130:ARG:O	19:DS:133:PRO:HD2	2.17	0.45
19:DW:100:GLU:HG2	19:DW:104:HIS:CE1	2.52	0.45
18:DY:185:LEU:HB3	18:DY:198:SER:HB3	1.99	0.45
18:Df:279:ASP:OD1	18:Df:282:ARG:NH2	2.50	0.45
19:Dx:57:GLN:HG3	19:Dx:58:LEU:HD22	1.99	0.45
19:Dx:122:THR:HG22	19:Dx:123:LEU:HG	1.98	0.45
20:D7:3:LEU:O	20:D7:4:SER:C	2.59	0.45
20:D9:7:ASP:O	20:D9:9:ARG:N	2.50	0.45
7:Ed:151:SER:O	7:Ed:153:ARG:N	2.50	0.45
7:En:163:ARG:HG3	7:En:166:GLN:HE21	1.82	0.45
4:8:74:THR:O	4:8:78:GLN:HG2	2.17	0.45
6:A2:40:ASP:OD2	6:A2:42:TYR:CE2	2.69	0.45
5:AX:87:GLN:NE2	5:Y:38:ARG:HH22	2.11	0.45
5:AZ:163:ARG:HH12	6:Az:383:ASN:C	2.11	0.45
6:Ad:238:GLY:O	6:Ad:241:GLN:NE2	2.49	0.45
6:Ad:285:MET:HB3	6:Ad:288:ALA:HB3	1.97	0.45
6:Af:35:ARG:NH2	6:Af:37:GLU:OE2	2.37	0.45
6:Af:46:LEU:HD12	6:Av:325:LYS:HA	1.99	0.45
6:Af:274:GLY:HA3	6:Af:285:MET:HG3	1.99	0.45
6:Ai:276:PRO:HA	6:Ai:282:PRO:HG3	1.98	0.45
6:Am:171:ASP:OD1	6:Am:171:ASP:N	2.49	0.45
6:Ao:430:GLN:OE1	6:Au:414:ARG:NH1	2.50	0.45
6:Ap:422:SER:HA	6:Au:409:LEU:HD21	1.98	0.45
6:Ay:130:VAL:HG12	6:Ay:137:VAL:HA	1.99	0.45
6:Ay:223:THR:HG22	6:Ay:232:PRO:HA	1.97	0.45
6:F:151:PHE:CE2	6:F:344:VAL:HG21	2.52	0.45
5:S:206:VAL:HG23	5:S:209:LEU:HB2	1.99	0.45
5:U:206:VAL:HG23	5:U:209:LEU:HB2	1.98	0.45
5:W:114:TYR:HE2	5:W:195:PRO:HD3	1.82	0.45
5:Z:129:VAL:HG12	5:Z:136:PRO:HA	1.99	0.45
9:i:30:ASN:OD1	10:n:57:SER:HB3	2.17	0.45
12:x:70:GLU:OE1	7:En:152:GLN:OE1	2.34	0.45
13:CB:228:ASP:OD2	13:CB:231:THR:HG22	2.17	0.45
18:CG:222:THR:HG22	18:CG:284:VAL:HG22	1.99	0.45
14:A4:243:GLN:NE2	14:A9:202:THR:HG23	2.32	0.45
17:Cr:184:ILE:HD12	17:Cr:235:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C8:148:ASP:OD2	13:C8:256:THR:OG1	2.28	0.45
13:B1:308:ARG:HB3	13:B1:351:GLU:HA	1.99	0.45
14:B2:202:THR:HG23	14:Bw:243:GLN:NE2	2.32	0.45
14:BI:109:VAL:HB	14:BI:177:ILE:HG23	1.99	0.45
13:BR:148:ASP:OD2	13:BR:256:THR:OG1	2.28	0.45
14:BS:109:VAL:HB	14:BS:177:ILE:HG23	1.99	0.45
13:BW:157:LEU:O	13:BW:161:SER:OG	2.27	0.45
14:Bc:109:VAL:HB	14:Bc:177:ILE:HG23	1.99	0.45
13:Bl:362:ASN:HD22	18:Ds:89:ILE:CD1	2.15	0.45
14:Bm:64:PRO:HB2	14:Br:37:VAL:HG13	1.98	0.45
14:Bm:109:VAL:HB	14:Bm:177:ILE:HG23	1.99	0.45
17:Bp:158:ASN:HD22	17:Bu:116:GLY:HA3	1.82	0.45
13:Bq:308:ARG:HB3	13:Bq:351:GLU:HA	1.99	0.45
13:Bv:350:TYR:OH	13:Bv:355:GLU:OE2	2.26	0.45
18:DE:185:LEU:HB3	18:DE:198:SER:HB3	1.99	0.45
19:DF:205:LYS:O	19:DF:207:ARG:NH1	2.49	0.45
19:DG:130:ARG:O	19:DG:133:PRO:HD2	2.17	0.45
19:DJ:143:ASN:O	19:DJ:147:ARG:HG3	2.17	0.45
18:DM:247:TYR:O	18:DM:250:SER:OG	2.25	0.45
18:DU:185:LEU:HB3	18:DU:198:SER:HB3	1.99	0.45
18:DY:45:GLU:HG3	18:DY:63:ARG:HG3	1.99	0.45
19:DZ:175:VAL:HG12	19:Da:124:VAL:HG12	1.98	0.45
19:Di:105:GLN:HE21	19:Di:105:GLN:HB2	1.50	0.45
19:Dq:100:GLU:HG2	19:Dq:104:HIS:CE1	2.51	0.45
7:Eo:163:ARG:HA	7:Eo:166:GLN:NE2	2.29	0.45
7:Es:167:LEU:O	7:Es:171:ILE:HG12	2.17	0.45
2:1:184:LEU:O	7:Eh:193:VAL:HG11	2.17	0.45
6:A1:13:GLN:HE22	5:P:226:ASN:CG	2.24	0.45
7:AJ:341:ASN:HD21	8:c:86:PRO:HG3	1.82	0.45
5:AW:176:ILE:HG13	5:AW:212:LEU:HD22	1.97	0.45
5:Aa:95:MET:O	5:Aa:118:GLY:HA3	2.16	0.45
5:Aa:239:ARG:HA	5:Aa:239:ARG:HD3	1.82	0.45
6:An:172:LEU:HD22	6:An:212:GLN:HA	1.98	0.45
6:As:35:ARG:NH2	6:As:37:GLU:OE2	2.45	0.45
6:D:114:GLU:HB2	6:D:116:TYR:HD2	1.81	0.45
6:F:276:PRO:HA	6:F:282:PRO:HG3	1.98	0.45
6:I:276:PRO:HA	6:I:282:PRO:HG3	1.98	0.45
6:L:65:GLN:HE21	6:L:362:LYS:HE2	1.82	0.45
6:L:183:PRO:HA	6:L:186:TYR:CZ	2.51	0.45
6:M:172:LEU:HD22	6:M:212:GLN:HA	1.98	0.45
5:S:52:PRO:HB3	5:S:65:GLY:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:239:ARG:O	5:T:243:MET:HG2	2.17	0.45
5:W:7:VAL:HG13	5:W:71:GLY:HA2	1.99	0.45
5:X:161:ARG:HH11	5:X:168:ASN:HD21	1.64	0.45
10:m:137:LYS:NZ	10:m:139:GLU:OE2	2.48	0.45
10:n:91:LEU:HD23	10:n:122:LEU:HD21	1.98	0.45
10:q:244:SER:HA	10:q:247:ARG:HB2	1.98	0.45
2:y:206:PRO:CG	7:Ep:192:PHE:CD2	3.00	0.45
13:B7:155:ARG:O	13:B7:159:GLN:HG2	2.16	0.45
13:B7:228:ASP:OD2	13:B7:231:THR:HG22	2.17	0.45
15:A0:134:VAL:HG21	13:BC:83:HIS:CD2	2.52	0.45
14:CK:243:GLN:NE2	14:CP:202:THR:HG23	2.32	0.45
15:CV:134:VAL:HG21	13:CY:83:HIS:CD2	2.52	0.45
14:Cj:243:GLN:NE2	14:Co:202:THR:HG23	2.32	0.45
17:Cw:184:ILE:HD12	17:Cw:235:LEU:HD13	1.99	0.45
14:Cy:133:MET:HG3	14:C4:157:ASN:ND2	2.30	0.45
13:C3:334:ARG:HD3	13:C8:353:GLU:CG	2.43	0.45
14:C4:243:GLN:NE2	14:C9:202:THR:HG23	2.32	0.45
17:C7:184:ILE:HD12	17:C7:235:LEU:HD13	1.99	0.45
14:B2:37:VAL:HG13	14:Bw:64:PRO:HB2	1.98	0.45
13:B6:155:ARG:O	13:B6:159:GLN:HG2	2.16	0.45
13:BW:334:ARG:HD3	13:Bb:353:GLU:CG	2.43	0.45
17:Bu:158:ASN:HD22	17:Bz:116:GLY:HA3	1.82	0.45
13:Bv:92:SER:HB3	13:Bv:103:LYS:HB3	1.99	0.45
19:DF:143:ASN:O	19:DF:147:ARG:HG3	2.17	0.45
18:DH:48:LEU:HD11	18:DH:161:LYS:HB3	1.99	0.45
18:DQ:247:TYR:O	18:DQ:250:SER:OG	2.25	0.45
19:DR:205:LYS:O	19:DR:207:ARG:NH1	2.49	0.45
19:Dy:100:GLU:HG2	19:Dy:104:HIS:CE1	2.51	0.45
19:Dy:183:LYS:HE3	19:Dy:183:LYS:HB3	1.71	0.45
7:EN:387:GLN:HE21	7:EN:387:GLN:HB2	1.63	0.45
7:EX:197:GLN:HE21	7:EY:231:GLY:N	2.15	0.45
7:Ee:239:VAL:HG12	7:Ee:247:LEU:HD12	1.99	0.45
7:Ef:191:VAL:HA	7:Ef:195:HIS:HE1	1.81	0.45
7:Ep:206:THR:HA	7:Ep:242:GLN:HG2	1.99	0.45
7:Es:204:PHE:CE1	7:Es:206:THR:HG22	2.50	0.45
7:E4:387:GLN:HE21	7:E4:387:GLN:HB2	1.63	0.45
2:1:193:GLU:HG3	7:Ei:191:VAL:HB	1.98	0.45
2:2:204:ASP:OD1	2:2:204:ASP:N	2.49	0.45
6:A1:49:ASN:O	6:A1:50:ALA:HB3	2.16	0.45
6:A3:223:THR:HG22	6:A3:232:PRO:HA	1.97	0.45
6:A3:360:LEU:HB3	6:A3:368:TRP:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AV:2:HIS:HD2	5:AV:4:ALA:H	1.64	0.45
6:Ae:93:LYS:HE2	6:Ae:93:LYS:HB2	1.83	0.45
6:Ae:109:PHE:CE1	6:Ae:119:THR:HG22	2.46	0.45
6:Ae:430:GLN:HE21	6:Ap:402:MET:HB2	1.80	0.45
6:Ak:37:GLU:HG2	6:Ap:29:TYR:HE2	1.82	0.45
6:Aq:276:PRO:HA	6:Aq:282:PRO:HG3	1.99	0.45
6:At:49:ASN:O	6:At:50:ALA:HB3	2.16	0.45
6:At:50:ALA:HA	6:At:53:THR:CG2	2.44	0.45
6:Ax:132:PRO:HB3	6:Ax:344:VAL:HG13	1.99	0.45
5:B:82:THR:HG1	5:B:224:ASN:HD22	1.60	0.45
6:I:198:MET:HG3	6:I:288:ALA:HA	1.99	0.45
6:L:116:TYR:CE1	6:L:146:ASN:HB2	2.51	0.45
5:S:91:ASN:HD22	5:S:92:ALA:N	2.15	0.45
5:V:94:ASP:HB2	5:V:220:LEU:HD21	1.98	0.45
5:V:258:VAL:HG13	5:V:262:LEU:HD22	1.99	0.45
14:B8:109:VAL:HB	14:B8:177:ILE:HG23	1.99	0.45
13:CB:155:ARG:O	13:CB:159:GLN:HG2	2.16	0.45
14:CC:243:GLN:NE2	14:CK:202:THR:HG23	2.32	0.45
13:CJ:83:HIS:CD2	15:C0:134:VAL:HG21	2.52	0.45
13:CJ:107:ASP:OD1	13:CJ:107:ASP:N	2.48	0.45
13:CJ:334:ARG:HD3	13:A8:353:GLU:CG	2.43	0.45
13:CJ:362:ASN:O	18:DX:91:MET:HE1	2.17	0.45
14:CU:243:GLN:NE2	14:CZ:202:THR:HG23	2.32	0.45
14:Ce:64:PRO:HB2	14:Cj:37:VAL:HG13	1.98	0.45
15:Cf:134:VAL:HG21	13:Ci:83:HIS:CD2	2.52	0.45
17:Ch:184:ILE:HD12	17:Ch:235:LEU:HD13	1.99	0.45
15:Cu:134:VAL:HG21	13:Cx:83:HIS:CD2	2.52	0.45
13:Cx:334:ARG:HD3	13:C3:353:GLU:CG	2.43	0.45
17:C2:184:ILE:HD12	17:C2:235:LEU:HD13	1.99	0.45
13:B1:206:VAL:HG21	14:B2:36:ALA:HA	1.99	0.45
13:B6:308:ARG:HB3	13:B6:351:GLU:HA	1.99	0.45
14:BI:243:GLN:NE2	14:BN:202:THR:HG23	2.32	0.45
14:BS:243:GLN:NE2	14:BX:202:THR:HG23	2.32	0.45
13:Bg:97:ARG:HE	13:Bg:99:LYS:HZ3	1.65	0.45
13:Bg:308:ARG:HB3	13:Bg:351:GLU:HA	1.99	0.45
13:Bl:308:ARG:HB3	13:Bl:351:GLU:HA	1.99	0.45
13:Bv:362:ASN:HD22	18:Dw:89:ILE:CD1	2.15	0.45
19:DB:57:GLN:HG3	19:DB:58:LEU:HD22	1.99	0.45
18:DD:222:THR:HG22	18:DD:284:VAL:HG22	1.98	0.45
18:DI:247:TYR:O	18:DI:250:SER:OG	2.25	0.45
19:DN:143:ASN:O	19:DN:147:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DV:57:GLN:HG3	19:DV:58:LEU:HD22	1.99	0.45
18:DX:279:ASP:OD1	18:DX:282:ARG:NH2	2.49	0.45
19:DZ:205:LYS:O	19:DZ:207:ARG:NH1	2.49	0.45
19:Da:100:GLU:HG2	19:Da:104:HIS:CE1	2.51	0.45
18:Dc:185:LEU:HB3	18:Dc:198:SER:HB3	1.99	0.45
18:Dj:222:THR:HG22	18:Dj:284:VAL:HG22	1.99	0.45
18:Do:245:ARG:HG3	18:Do:258:ILE:HG21	1.98	0.45
19:Dt:57:GLN:HG3	19:Dt:58:LEU:HD22	1.99	0.45
7:EY:200:SER:OG	7:EZ:227:SER:OG	2.35	0.45
7:Eh:241:ASP:CG	7:Eh:245:ARG:HG2	2.41	0.45
7:Ei:167:LEU:O	7:Ei:171:ILE:HG12	2.17	0.45
1:0:176:ASN:N	1:0:176:ASN:OD1	2.49	0.45
2:1:144:PHE:HD2	2:2:198:MET:HE3	1.82	0.45
6:A3:130:VAL:HG22	6:A3:347:GLY:HA2	1.99	0.45
5:AQ:7:VAL:O	5:AQ:10:THR:OG1	2.34	0.45
5:AS:145:GLU:HG2	5:AW:180:VAL:HG22	1.99	0.45
5:Aa:206:VAL:HG23	5:Aa:209:LEU:HB2	1.98	0.45
6:Ab:422:SER:HA	6:Ag:409:LEU:HD21	1.97	0.45
6:Ad:401:ASP:O	6:Ad:405:GLU:HG2	2.17	0.45
6:Ae:416:PHE:CZ	6:N:433:ILE:HD11	2.53	0.45
6:Aj:304:PHE:HA	6:M:198:MET:HE1	1.98	0.45
6:Ak:116:TYR:CE1	6:Ak:146:ASN:HB2	2.52	0.45
6:Ar:109:PHE:CE1	6:Ar:119:THR:HG22	2.48	0.45
6:As:151:PHE:CE2	6:As:344:VAL:HG21	2.52	0.45
6:Av:402:MET:O	6:Av:406:LEU:HD23	2.17	0.45
6:Ay:285:MET:SD	6:Ay:290:PRO:HA	2.57	0.45
6:Ay:433:ILE:HG22	5:T:231:LEU:HD13	1.99	0.45
5:C:49:ILE:HD11	5:C:66:LEU:HD23	1.99	0.45
6:E:129:GLN:HB2	6:E:143:GLN:NE2	2.31	0.45
6:I:47:PHE:O	6:I:48:THR:OG1	2.35	0.45
6:I:360:LEU:HB3	6:I:368:TRP:HB3	1.99	0.45
6:N:119:THR:HG23	6:N:123:GLU:O	2.17	0.45
5:P:91:ASN:ND2	5:P:93:LEU:H	2.14	0.45
5:P:123:ASN:ND2	5:P:127:THR:HB	2.32	0.45
5:W:226:ASN:O	5:W:230:GLU:HG2	2.16	0.45
8:c:5:PHE:CE2	22:t:202:PGT:H31	2.52	0.45
10:p:114:THR:HG22	10:p:120:LEU:HD13	1.99	0.45
2:z:116:MET:SD	2:z:134:ILE:HG23	2.57	0.45
13:CB:304:MET:HB2	13:CB:356:LEU:HD11	1.99	0.45
13:CJ:353:GLU:CG	13:C8:334:ARG:HD3	2.43	0.45
14:A4:64:PRO:HB2	14:A9:37:VAL:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:A5:134:VAL:HG21	13:A8:83:HIS:CD2	2.52	0.45
13:A8:92:SER:HB3	13:A8:103:LYS:HB3	1.99	0.45
14:A9:109:VAL:HB	14:A9:177:ILE:HG23	1.99	0.45
13:CO:304:MET:HB2	13:CO:356:LEU:HD11	1.99	0.45
13:CT:304:MET:HB2	13:CT:356:LEU:HD11	1.99	0.45
13:CY:362:ASN:O	18:DH:91:MET:HE1	2.17	0.45
15:Ca:134:VAL:HG21	13:Cd:83:HIS:CD2	2.52	0.45
13:Cn:206:VAL:HG21	14:Co:36:ALA:HA	1.98	0.45
13:BR:228:ASP:OD2	13:BR:231:THR:HG22	2.17	0.45
17:Bk:158:ASN:HD22	17:Bp:116:GLY:HA3	1.82	0.45
14:Br:64:PRO:HB2	14:Bw:37:VAL:HG13	1.98	0.45
14:Br:243:GLN:NE2	14:Bw:202:THR:HG23	2.31	0.45
19:DC:207:ARG:HG2	18:DE:293:VAL:HB	2.00	0.45
19:DF:175:VAL:HG12	19:DG:124:VAL:HG12	1.98	0.45
19:DG:100:GLU:HG2	19:DG:104:HIS:CE1	2.52	0.45
19:DR:175:VAL:HG12	19:DS:124:VAL:HG12	1.98	0.45
18:DU:102:ASP:OD2	18:DU:133:ARG:NH1	2.51	0.45
19:DV:122:THR:HG22	19:DV:123:LEU:HG	1.98	0.45
18:DY:67:LYS:HE2	18:DY:67:LYS:HB3	1.76	0.45
18:DY:245:ARG:HG3	18:DY:258:ILE:HG21	1.98	0.45
19:DZ:57:GLN:HG3	19:DZ:58:LEU:HD22	1.99	0.45
18:Df:222:THR:HG22	18:Df:284:VAL:HG22	1.98	0.45
18:Dw:185:LEU:HB3	18:Dw:198:SER:HB3	1.99	0.45
7:Ec:172:GLU:OE2	7:Ec:179:LYS:HA	2.17	0.45
3:6:31:ILE:HG13	3:6:57:VAL:HG11	1.99	0.44
7:AF:336:PRO:HG2	7:AM:352:ASP:HB3	1.98	0.44
5:AU:123:ASN:OD1	5:AU:127:THR:N	2.50	0.44
5:AX:227:VAL:HB	5:Y:243:MET:SD	2.57	0.44
6:Ad:433:ILE:HD11	6:Ai:416:PHE:HZ	1.81	0.44
6:Ae:415:ASN:O	6:Ae:419:ASN:ND2	2.45	0.44
6:Ah:130:VAL:HG22	6:Ah:347:GLY:HA2	1.98	0.44
6:Ai:329:ASP:OD2	6:Ai:333:SER:HB2	2.17	0.44
6:Ak:109:PHE:CE1	6:Ak:119:THR:HG22	2.52	0.44
6:Al:109:PHE:HE1	6:Al:119:THR:HG22	1.81	0.44
6:Am:151:PHE:CE2	6:Am:344:VAL:HG21	2.52	0.44
5:B:86:ALA:HB2	5:Z:45:PHE:HE1	1.82	0.44
6:D:3:TYR:CZ	6:O:397:GLN:HG3	2.53	0.44
6:K:223:THR:HA	6:K:232:PRO:HA	1.99	0.44
5:S:143:ILE:HG23	5:S:160:VAL:HG11	1.99	0.44
5:W:31:THR:HG21	5:W:191:ASN:HD21	1.81	0.44
10:p:21:LEU:HD23	10:p:39:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:r:86:GLN:O	11:r:90:LYS:HG2	2.17	0.44
13:B7:304:MET:HB2	13:B7:356:LEU:HD11	1.99	0.44
13:CB:308:ARG:HB3	13:CB:351:GLU:HA	1.99	0.44
18:CG:48:LEU:HD11	18:CG:161:LYS:HB3	1.99	0.44
18:CG:247:TYR:O	18:CG:250:SER:OG	2.20	0.44
17:CI:158:ASN:HD22	17:A7:116:GLY:HA3	1.82	0.44
17:CI:184:ILE:HD12	17:CI:235:LEU:HD13	1.99	0.44
14:A4:113:GLU:CD	14:A9:196:LYS:HZ1	2.26	0.44
17:A7:158:ASN:HD22	17:BB:116:GLY:HA3	1.82	0.44
17:A7:184:ILE:HD12	17:A7:235:LEU:HD13	1.99	0.44
14:A9:256:ASN:HB3	14:BD:245:MET:SD	2.58	0.44
14:CK:109:VAL:HB	14:CK:177:ILE:HG23	1.99	0.44
17:CN:180:ARG:HH22	13:CT:188:ASP:CG	2.13	0.44
13:CO:228:ASP:OD2	13:CO:231:THR:HG22	2.17	0.44
17:CS:207:LEU:HD11	17:CS:238:ILE:HD11	2.00	0.44
13:CT:228:ASP:OD2	13:CT:231:THR:HG22	2.17	0.44
13:CY:304:MET:HB2	13:CY:356:LEU:HD11	1.99	0.44
17:Cc:184:ILE:HD12	17:Cc:235:LEU:HD13	1.99	0.44
13:Cd:304:MET:HB2	13:Cd:356:LEU:HD11	1.99	0.44
15:Ck:134:VAL:HG21	13:Cn:83:HIS:CD2	2.52	0.44
13:Cs:334:ARG:HD3	13:Cx:353:GLU:CG	2.43	0.44
14:Cy:256:ASN:HB3	14:C4:245:MET:SD	2.57	0.44
14:C4:256:ASN:HB3	14:C9:245:MET:SD	2.57	0.44
13:B1:304:MET:HB2	13:B1:356:LEU:HD11	1.99	0.44
17:B5:116:GLY:HA3	17:Bz:158:ASN:HD22	1.82	0.44
17:BB:184:ILE:HD12	17:BB:235:LEU:HD13	1.99	0.44
14:BD:243:GLN:NE2	14:BI:202:THR:HG23	2.32	0.44
15:BE:134:VAL:HG21	13:BH:83:HIS:CD2	2.52	0.44
17:BG:158:ASN:HD22	17:BL:116:GLY:HA3	1.82	0.44
17:BL:158:ASN:HD22	17:BQ:116:GLY:HA3	1.82	0.44
13:BM:228:ASP:OD2	13:BM:231:THR:HG22	2.17	0.44
15:BO:134:VAL:HG21	13:BR:83:HIS:CD2	2.52	0.44
14:BX:133:MET:CG	14:Bc:157:ASN:HD21	2.26	0.44
14:BX:243:GLN:NE2	14:Bc:202:THR:HG23	2.32	0.44
14:Bc:256:ASN:HB3	14:Bh:245:MET:SD	2.57	0.44
14:Bh:256:ASN:HB3	14:Bm:245:MET:SD	2.57	0.44
17:Bk:207:LEU:HD11	17:Bk:238:ILE:HD11	2.00	0.44
17:Bu:207:LEU:HD11	17:Bu:238:ILE:HD11	2.00	0.44
18:DD:48:LEU:HD11	18:DD:161:LYS:HB3	1.99	0.44
18:DH:222:THR:HG22	18:DH:284:VAL:HG22	1.98	0.44
19:DN:175:VAL:HG12	19:DO:124:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DO:100:GLU:HG2	19:DO:104:HIS:CE1	2.51	0.44
18:DP:222:THR:HG22	18:DP:284:VAL:HG22	1.98	0.44
19:DR:122:THR:HG22	19:DR:123:LEU:HG	1.98	0.44
19:DW:130:ARG:O	19:DW:133:PRO:HD2	2.17	0.44
18:Dc:58:ALA:HB1	18:Dc:72:PHE:CE1	2.52	0.44
18:Dc:292:GLN:OE1	18:Dc:292:GLN:N	2.48	0.44
18:Dg:102:ASP:OD2	18:Dg:133:ARG:NH1	2.50	0.44
19:Dh:122:THR:HG22	19:Dh:123:LEU:HG	1.98	0.44
18:Dj:279:ASP:OD1	18:Dj:282:ARG:NH2	2.49	0.44
18:Dk:45:GLU:HG3	18:Dk:63:ARG:HG3	1.99	0.44
18:Do:102:ASP:OD2	18:Do:133:ARG:NH1	2.50	0.44
18:Do:161:LYS:HD3	18:Do:161:LYS:HA	1.75	0.44
19:Dp:57:GLN:HG3	19:Dp:58:LEU:HD22	1.99	0.44
7:D4:383:HIS:HB2	21:EB:14:GLU:CB	2.47	0.44
7:EY:167:LEU:HD23	7:EY:167:LEU:HA	1.73	0.44
7:Ed:241:ASP:CG	7:Ed:245:ARG:HG2	2.41	0.44
7:Em:220:SER:HB3	7:En:246:LEU:HB2	1.99	0.44
1:0:154:ASP:HA	1:0:174:LYS:HB2	1.99	0.44
3:6:63:MET:HG2	3:7:11:ARG:HA	1.99	0.44
4:8:215:PHE:HD2	4:8:216:SER:H	1.65	0.44
5:A:29:ALA:HA	5:A:225:VAL:HG21	1.99	0.44
6:A2:109:PHE:HE1	6:A2:119:THR:HG22	1.82	0.44
6:A3:259:LEU:HD21	6:A3:262:LEU:HG	1.99	0.44
7:AF:339:LEU:HD11	9:l:72:GLU:HG3	1.99	0.44
5:AR:104:GLN:NE2	5:AR:175:THR:OG1	2.49	0.44
6:Ac:415:ASN:O	6:Ac:419:ASN:ND2	2.43	0.44
6:Aj:274:GLY:HA3	6:Aj:285:MET:HG3	1.98	0.44
6:Ak:80:ASP:O	6:Ak:393:GLY:N	2.48	0.44
6:Al:209:LEU:HD22	6:Al:219:ASN:HD22	1.82	0.44
6:Ar:46:LEU:HD11	5:Q:150:ILE:HG13	1.97	0.44
6:Ar:196:ASP:OD1	6:Ar:200:GLN:N	2.43	0.44
6:At:35:ARG:NH2	6:At:37:GLU:OE2	2.38	0.44
6:Aw:16:LEU:HD22	6:Aw:412:ALA:HB1	1.98	0.44
6:Ay:16:LEU:HD22	6:Ay:412:ALA:HB1	1.99	0.44
6:Ay:151:PHE:CE2	6:Ay:344:VAL:HG21	2.52	0.44
6:D:19:THR:O	6:D:23:ILE:HG13	2.17	0.44
6:D:109:PHE:HE1	6:D:119:THR:HG22	1.82	0.44
6:H:62:GLN:HE21	6:H:62:GLN:HB2	1.61	0.44
6:I:231:LYS:NZ	6:I:282:PRO:O	2.40	0.44
6:O:33:GLU:HB3	6:O:400:ILE:HG22	1.98	0.44
6:O:109:PHE:HE1	6:O:119:THR:HG22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:143:ILE:HG21	5:S:150:ILE:HD11	1.99	0.44
5:W:43:ASP:OD1	5:a:191:ASN:ND2	2.51	0.44
5:a:18:ASN:HD22	5:a:39:ALA:HB3	1.82	0.44
8:c:26:ILE:HG21	8:c:103:PHE:HB2	1.99	0.44
10:n:18:ALA:HB2	10:n:59:THR:HG21	1.98	0.44
10:q:91:LEU:HD21	10:q:128:PRO:HG3	1.98	0.44
2:z:206:PRO:HG3	7:EX:192:PHE:CB	2.46	0.44
13:B7:83:HIS:CD2	15:CD:134:VAL:HG21	2.52	0.44
17:CF:207:LEU:HD11	17:CF:238:ILE:HD11	2.00	0.44
17:CI:116:GLY:HA3	17:C7:158:ASN:HD22	1.82	0.44
17:CN:207:LEU:HD11	17:CN:238:ILE:HD11	2.00	0.44
17:CX:207:LEU:HD11	17:CX:238:ILE:HD11	2.00	0.44
14:CZ:256:ASN:HB3	14:Ce:245:MET:SD	2.57	0.44
14:Cj:64:PRO:HB2	14:Co:37:VAL:HG13	1.98	0.44
17:Cm:184:ILE:HD12	17:Cm:235:LEU:HD13	1.99	0.44
14:Ct:243:GLN:NE2	14:Cy:202:THR:HG23	2.32	0.44
17:C2:158:ASN:HD22	17:C7:116:GLY:HA3	1.82	0.44
18:DA:89:ILE:CD1	13:B6:362:ASN:HD22	2.15	0.44
18:DA:161:LYS:HD3	18:DA:161:LYS:HA	1.75	0.44
18:DA:245:ARG:HG3	18:DA:258:ILE:HG21	1.98	0.44
17:B5:207:LEU:HD11	17:B5:238:ILE:HD11	1.99	0.44
13:B6:304:MET:HB2	13:B6:356:LEU:HD11	1.99	0.44
13:BC:362:ASN:O	18:Db:91:MET:HE1	2.17	0.44
13:BM:92:SER:HB3	13:BM:103:LYS:HB3	1.99	0.44
14:BN:256:ASN:HB3	14:BS:245:MET:SD	2.57	0.44
17:BQ:158:ASN:HD22	17:BV:116:GLY:HA3	1.82	0.44
14:BX:256:ASN:HB3	14:Bc:245:MET:SD	2.57	0.44
17:Bf:207:LEU:HD11	17:Bf:238:ILE:HD11	2.00	0.44
14:Bh:243:GLN:NE2	14:Bm:202:THR:HG23	2.32	0.44
14:Bm:256:ASN:HB3	14:Br:245:MET:SD	2.57	0.44
17:Bp:207:LEU:HD11	17:Bp:238:ILE:HD11	2.00	0.44
17:Bz:207:LEU:HD11	17:Bz:238:ILE:HD11	2.00	0.44
18:DD:216:ASP:OD2	18:DD:291:THR:OG1	2.24	0.44
18:DE:58:ALA:HB1	18:DE:72:PHE:CE1	2.52	0.44
19:DF:122:THR:HG22	19:DF:123:LEU:HG	1.98	0.44
19:DJ:175:VAL:HG12	19:DK:124:VAL:HG12	1.98	0.44
18:DU:45:GLU:HG3	18:DU:63:ARG:HG3	1.99	0.44
18:DY:58:ALA:HB1	18:DY:72:PHE:CE1	2.52	0.44
18:DY:102:ASP:OD2	18:DY:133:ARG:NH1	2.50	0.44
18:Dc:102:ASP:OD2	18:Dc:133:ARG:NH1	2.51	0.44
18:Dg:58:ALA:HB1	18:Dg:72:PHE:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Dl:205:LYS:O	19:Dl:207:ARG:NH1	2.49	0.44
19:Dp:122:THR:HG22	19:Dp:123:LEU:HG	1.98	0.44
19:Dp:143:ASN:O	19:Dp:147:ARG:HG3	2.17	0.44
7:EM:258:ALA:O	7:EM:261:LYS:HG2	2.18	0.44
7:EP:450:LYS:HE2	7:EP:450:LYS:HB2	1.85	0.44
7:EX:241:ASP:OD2	7:EX:245:ARG:NH1	2.50	0.44
7:El:227:SER:O	7:Em:200:SER:OG	2.23	0.44
2:3:116:MET:HE3	4:8:177:LEU:HD22	1.98	0.44
4:8:18:PRO:HB3	4:8:57:ILE:HD13	2.00	0.44
6:A1:276:PRO:HA	6:A1:282:PRO:HG3	2.00	0.44
6:A1:416:PHE:HZ	6:Av:433:ILE:HD11	1.83	0.44
6:A1:434:LEU:HD23	5:P:242:GLU:HB3	2.00	0.44
5:AU:227:VAL:HB	5:R:243:MET:SD	2.57	0.44
5:AZ:151:THR:HG23	5:AZ:159:SER:HB2	1.99	0.44
5:AZ:241:TYR:CZ	6:Az:433:ILE:HD11	2.52	0.44
6:Ab:151:PHE:CE2	6:Ab:344:VAL:HG21	2.52	0.44
6:Ad:46:LEU:HD12	6:At:325:LYS:HA	1.99	0.44
6:Ah:171:ASP:OD1	6:Ah:171:ASP:N	2.50	0.44
6:Ah:329:ASP:OD2	6:Ah:333:SER:HB2	2.18	0.44
6:Ai:151:PHE:CE2	6:Ai:344:VAL:HG21	2.52	0.44
6:Ai:171:ASP:OD1	6:Ai:171:ASP:N	2.49	0.44
6:Aj:57:GLY:H	6:Ao:21:ASN:HD22	1.65	0.44
6:Aj:116:TYR:CE1	6:Aj:146:ASN:HB2	2.53	0.44
6:Am:6:LEU:HD13	6:As:407:VAL:HG11	1.98	0.44
6:Ar:16:LEU:HD13	6:Ar:16:LEU:HA	1.80	0.44
6:D:171:ASP:OD1	6:D:171:ASP:N	2.49	0.44
6:F:105:ARG:HH11	6:F:396:GLU:CD	2.25	0.44
6:F:129:GLN:HB2	6:F:143:GLN:NE2	2.32	0.44
6:L:109:PHE:HE1	6:L:119:THR:HG22	1.82	0.44
6:M:62:GLN:HE21	6:M:62:GLN:HB2	1.62	0.44
6:O:188:ARG:HG3	6:O:308:PHE:CG	2.53	0.44
5:V:175:THR:OG1	5:V:204:GLU:OE2	2.27	0.44
10:n:167:VAL:HG12	10:n:169:PRO:HD3	1.98	0.44
2:z:187:THR:CG2	7:EY:193:VAL:HG23	2.47	0.44
13:B7:308:ARG:HB3	13:B7:351:GLU:HA	1.99	0.44
17:CA:207:LEU:HD11	17:CA:238:ILE:HD11	2.00	0.44
13:CJ:228:ASP:OD2	13:CJ:231:THR:HG22	2.17	0.44
14:A4:256:ASN:HB3	14:A9:245:MET:SD	2.57	0.44
13:A8:206:VAL:HG21	14:A9:36:ALA:HA	1.99	0.44
13:A8:228:ASP:OD2	13:A8:231:THR:HG22	2.17	0.44
13:CO:206:VAL:HG21	14:CP:36:ALA:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Cc:207:LEU:HD11	17:Cc:238:ILE:HD11	2.00	0.44
14:Ce:256:ASN:HB3	14:Cj:245:MET:SD	2.58	0.44
14:Cj:256:ASN:HB3	14:Co:245:MET:SD	2.57	0.44
15:Cp:134:VAL:HG21	13:Cs:83:HIS:CD2	2.52	0.44
13:Cx:241:ARG:NH1	13:C3:259:ALA:HB2	2.33	0.44
14:C4:109:VAL:HB	14:C4:177:ILE:HG23	1.99	0.44
15:C5:134:VAL:HG21	13:C8:83:HIS:CD2	2.52	0.44
18:DA:58:ALA:HB1	18:DA:72:PHE:CE1	2.52	0.44
17:BB:158:ASN:HD22	17:BG:116:GLY:HA3	1.82	0.44
14:BD:109:VAL:HB	14:BD:177:ILE:HG23	1.99	0.44
13:BM:97:ARG:HE	13:BM:99:LYS:HZ3	1.65	0.44
14:BN:109:VAL:HB	14:BN:177:ILE:HG23	1.99	0.44
13:BR:206:VAL:HG21	14:BS:36:ALA:HA	1.98	0.44
17:BV:158:ASN:HD22	17:Ba:116:GLY:HA3	1.82	0.44
14:BX:109:VAL:HB	14:BX:177:ILE:HG23	1.99	0.44
17:Ba:158:ASN:HD22	17:Bf:116:GLY:HA3	1.82	0.44
17:Ba:207:LEU:HD11	17:Ba:238:ILE:HD11	2.00	0.44
13:Bb:308:ARG:HB3	13:Bb:351:GLU:HA	1.99	0.44
17:Bf:158:ASN:HD22	17:Bk:116:GLY:HA3	1.82	0.44
13:Bg:362:ASN:O	18:Dn:91:MET:HE1	2.17	0.44
14:Bh:109:VAL:HB	14:Bh:177:ILE:HG23	1.99	0.44
13:Bv:304:MET:HB2	13:Bv:356:LEU:HD11	1.99	0.44
19:DB:143:ASN:O	19:DB:147:ARG:HG3	2.17	0.44
18:DI:45:GLU:HG3	18:DI:63:ARG:HG3	1.99	0.44
18:DI:58:ALA:HB1	18:DI:72:PHE:CE1	2.53	0.44
19:DK:207:ARG:HG2	18:DM:293:VAL:HB	2.00	0.44
18:DM:45:GLU:HG3	18:DM:63:ARG:HG3	1.99	0.44
18:DP:48:LEU:HD11	18:DP:161:LYS:HB3	1.99	0.44
18:DQ:185:LEU:HB3	18:DQ:198:SER:HB3	1.99	0.44
19:DR:143:ASN:O	19:DR:147:ARG:HG3	2.17	0.44
18:DY:100:HIS:O	18:DY:133:ARG:NH2	2.38	0.44
19:Da:130:ARG:O	19:Da:133:PRO:HD2	2.17	0.44
18:Dg:185:LEU:HB3	18:Dg:198:SER:HB3	1.99	0.44
18:Ds:185:LEU:HB3	18:Ds:198:SER:HB3	1.99	0.44
19:Dy:130:ARG:O	19:Dy:133:PRO:HD2	2.17	0.44
7:EP:258:ALA:O	7:EP:261:LYS:HG2	2.18	0.44
7:Ec:242:GLN:H	7:Ec:242:GLN:HG2	1.53	0.44
7:En:214:LYS:HE2	7:En:214:LYS:HB2	1.87	0.44
1:0:47:LEU:HB2	1:0:68:PRO:HG3	1.99	0.44
3:7:89:TYR:CE2	7:Ed:188:LYS:HB2	2.53	0.44
6:A2:62:GLN:CD	5:P:131:SER:O	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A3:365:GLY:HA2	6:Ax:39:ALA:HB1	2.00	0.44
7:AM:331:MET:HE2	7:AM:331:MET:HB3	1.87	0.44
5:AR:152:VAL:HG22	5:AR:158:VAL:HG22	1.99	0.44
5:AY:90:THR:O	6:An:48:THR:HA	2.17	0.44
6:Ac:131:ASP:OD1	6:Ac:131:ASP:N	2.51	0.44
6:Ag:274:GLY:HA3	6:Ag:285:MET:HG3	1.99	0.44
6:Ah:239:ASP:OD2	6:Ah:250:THR:OG1	2.28	0.44
6:Ap:141:GLU:H	6:Ap:141:GLU:HG3	1.67	0.44
6:Ar:46:LEU:HD11	5:Q:150:ILE:CG1	2.47	0.44
6:As:92:ALA:HB2	6:As:126:LEU:HD21	1.99	0.44
6:Ay:172:LEU:HD22	6:Ay:212:GLN:HA	1.99	0.44
5:Y:258:VAL:HG13	5:Y:262:LEU:HD22	1.99	0.44
9:i:22:ASN:ND2	10:n:54:ARG:HE	2.16	0.44
13:B7:206:VAL:HG21	14:CK:36:ALA:HA	1.99	0.44
17:CA:116:GLY:HA3	17:B5:158:ASN:HD22	1.82	0.44
13:CJ:92:SER:HB3	13:CJ:103:LYS:HB3	1.99	0.44
14:A4:109:VAL:HB	14:A4:177:ILE:HG23	1.99	0.44
13:CO:241:ARG:NH1	13:CT:259:ALA:HB2	2.33	0.44
13:CO:362:ASN:O	18:DD:91:MET:HE1	2.17	0.44
13:CY:228:ASP:OD2	13:CY:231:THR:HG22	2.17	0.44
13:Cd:228:ASP:OD2	13:Cd:231:THR:HG22	2.17	0.44
13:Ci:206:VAL:HG21	14:Cj:36:ALA:HA	1.98	0.44
13:Ci:228:ASP:OD2	13:Ci:231:THR:HG22	2.17	0.44
13:Ci:304:MET:HB2	13:Ci:356:LEU:HD11	1.99	0.44
13:Cn:228:ASP:OD2	13:Cn:231:THR:HG22	2.17	0.44
14:Co:256:ASN:HB3	14:Ct:245:MET:SD	2.57	0.44
13:Cs:206:VAL:HG21	14:Ct:36:ALA:HA	1.98	0.44
13:Cs:228:ASP:OD2	13:Cs:231:THR:HG22	2.17	0.44
13:Cx:228:ASP:OD2	13:Cx:231:THR:HG22	2.17	0.44
13:C3:228:ASP:OD2	13:C3:231:THR:HG22	2.17	0.44
18:DA:45:GLU:HG3	18:DA:63:ARG:HG3	1.99	0.44
13:B1:148:ASP:OD2	13:B1:256:THR:OG1	2.28	0.44
13:BC:92:SER:HB3	13:BC:103:LYS:HB3	1.99	0.44
13:BH:228:ASP:OD2	13:BH:231:THR:HG22	2.17	0.44
13:BW:92:SER:HB3	13:BW:103:LYS:HB3	1.99	0.44
17:Bf:180:ARG:HH22	13:Bl:188:ASP:CG	2.13	0.44
13:Bl:92:SER:HB3	13:Bl:103:LYS:HB3	1.99	0.44
13:Bq:304:MET:HB2	13:Bq:356:LEU:HD11	1.99	0.44
13:Bq:362:ASN:O	18:Dr:91:MET:HE1	2.17	0.44
14:Br:109:VAL:HB	14:Br:177:ILE:HG23	1.99	0.44
18:DE:45:GLU:HG3	18:DE:63:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DI:185:LEU:HB3	18:DI:198:SER:HB3	1.99	0.44
19:DJ:122:THR:HG22	19:DJ:123:LEU:HG	1.98	0.44
18:DL:48:LEU:HD11	18:DL:161:LYS:HB3	1.99	0.44
18:DM:58:ALA:HB1	18:DM:72:PHE:CE1	2.52	0.44
18:DM:292:GLN:OE1	18:DM:292:GLN:N	2.48	0.44
19:DN:122:THR:HG22	19:DN:123:LEU:HG	1.98	0.44
19:DO:130:ARG:O	19:DO:133:PRO:HD2	2.17	0.44
18:DP:216:ASP:OD2	18:DP:291:THR:OG1	2.24	0.44
18:DU:58:ALA:HB1	18:DU:72:PHE:CE1	2.52	0.44
19:DV:175:VAL:HG12	19:DW:124:VAL:HG12	1.98	0.44
19:Da:207:ARG:HG2	18:Dc:293:VAL:HB	2.00	0.44
18:Dc:245:ARG:HG3	18:Dc:258:ILE:HG21	1.98	0.44
19:Di:207:ARG:HG2	18:Dk:293:VAL:HB	2.00	0.44
18:Dk:102:ASP:OD2	18:Dk:133:ARG:NH1	2.50	0.44
18:Dk:245:ARG:HG3	18:Dk:258:ILE:HG21	1.98	0.44
19:Dl:143:ASN:O	19:Dl:147:ARG:HG3	2.17	0.44
19:Dt:143:ASN:O	19:Dt:147:ARG:HG3	2.17	0.44
18:Dw:45:GLU:HG3	18:Dw:63:ARG:HG3	1.99	0.44
7:EI:258:ALA:O	7:EI:261:LYS:HG2	2.18	0.44
7:EJ:258:ALA:O	7:EJ:261:LYS:HG2	2.18	0.44
7:EU:258:ALA:O	7:EU:261:LYS:HG2	2.18	0.44
7:EV:258:ALA:O	7:EV:261:LYS:HG2	2.18	0.44
7:Eb:185:ALA:HB3	7:Eb:200:SER:HB3	1.99	0.44
7:Ej:166:GLN:O	7:Ej:169:GLN:HB3	2.18	0.44
7:Et:141:ILE:HG23	7:Et:158:ARG:HH21	1.83	0.44
7:E3:258:ALA:O	7:E3:261:LYS:HG2	2.18	0.44
1:0:92:LYS:HA	1:0:112:LYS:HB2	1.99	0.44
2:3:251:MET:HE2	12:x:39:LEU:HD23	1.99	0.44
7:AA:349:ILE:HG12	10:q:46:ALA:HA	1.99	0.44
5:AP:80:VAL:HG12	5:AP:82:THR:HG23	2.00	0.44
5:AR:9:LYS:HG3	10:n:216:THR:HG21	1.99	0.44
5:AR:178:ASP:HB2	5:AR:212:LEU:HD23	1.99	0.44
6:Ac:73:ILE:HD11	6:Ac:395:LEU:HD12	2.00	0.44
6:Af:333:SER:OG	6:Af:348:ARG:NH2	2.50	0.44
6:Ao:129:GLN:HB2	6:Ao:143:GLN:NE2	2.33	0.44
6:Aq:105:ARG:HD2	6:Aq:396:GLU:OE2	2.17	0.44
6:At:38:PHE:HB2	6:Ay:28:THR:HG22	2.00	0.44
6:Av:43:SER:OG	5:P:83:HIS:CD2	2.70	0.44
6:Ax:16:LEU:HD13	6:Ax:16:LEU:HA	1.81	0.44
6:Az:16:LEU:HD22	6:Az:412:ALA:HB1	1.98	0.44
6:Az:223:THR:HG22	6:Az:232:PRO:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Az:402:MET:O	6:Az:406:LEU:HD23	2.17	0.44
6:L:141:GLU:H	6:L:141:GLU:HG3	1.62	0.44
6:O:276:PRO:HA	6:O:282:PRO:HG3	1.99	0.44
5:T:95:MET:O	5:T:118:GLY:HA3	2.17	0.44
5:U:148:ILE:HD11	5:U:161:ARG:HG2	1.99	0.44
5:W:33:GLY:N	5:W:221:GLU:O	2.45	0.44
8:b:85:GLN:OE1	9:l:22:ASN:ND2	2.51	0.44
9:k:126:LYS:HE2	9:k:126:LYS:HB3	1.86	0.44
13:B7:241:ARG:NH1	13:CO:259:ALA:HB2	2.33	0.44
13:CB:369:ILE:O	17:B5:226:ARG:CD	2.61	0.44
14:A4:202:THR:HG23	14:C9:243:GLN:NE2	2.32	0.44
13:CO:27:GLU:HG3	13:CO:103:LYS:HE3	2.00	0.44
17:CS:184:ILE:HD12	17:CS:235:LEU:HD13	1.99	0.44
14:CU:256:ASN:HB3	14:CZ:245:MET:SD	2.58	0.44
13:Cd:241:ARG:NH1	13:Ci:259:ALA:HB2	2.33	0.44
17:Ch:207:LEU:HD11	17:Ch:238:ILE:HD11	2.00	0.44
13:Ci:241:ARG:NH1	13:Cn:259:ALA:HB2	2.33	0.44
13:Ci:308:ARG:HB3	13:Ci:351:GLU:HA	1.99	0.44
14:Ct:109:VAL:HB	14:Ct:177:ILE:HG23	1.99	0.44
17:Cw:158:ASN:HD22	17:C2:116:GLY:HA3	1.82	0.44
13:Cx:157:LEU:O	13:Cx:161:SER:OG	2.27	0.44
13:C8:228:ASP:OD2	13:C8:231:THR:HG22	2.17	0.44
13:B1:241:ARG:NH1	13:B6:259:ALA:HB2	2.33	0.44
13:BC:228:ASP:OD2	13:BC:231:THR:HG22	2.17	0.44
14:BI:256:ASN:HB3	14:BN:245:MET:SD	2.58	0.44
13:BM:157:LEU:O	13:BM:161:SER:OG	2.27	0.44
17:BV:207:LEU:HD11	17:BV:238:ILE:HD11	2.00	0.44
13:Bg:92:SER:HB3	13:Bg:103:LYS:HB3	1.99	0.44
13:Bl:304:MET:HB2	13:Bl:356:LEU:HD11	1.99	0.44
14:Br:256:ASN:HB3	14:Bw:245:MET:SD	2.57	0.44
18:DI:102:ASP:OD2	18:DI:133:ARG:NH1	2.50	0.44
18:DL:222:THR:HG22	18:DL:284:VAL:HG22	1.98	0.44
18:DQ:292:GLN:OE1	18:DQ:292:GLN:N	2.48	0.44
19:DS:207:ARG:HG2	18:DU:293:VAL:HB	2.00	0.44
18:DT:222:THR:HG22	18:DT:284:VAL:HG22	1.98	0.44
18:Db:222:THR:HG22	18:Db:284:VAL:HG22	1.98	0.44
19:Dd:57:GLN:HG3	19:Dd:58:LEU:HD22	1.99	0.44
18:Df:48:LEU:HD11	18:Df:161:LYS:HB3	1.99	0.44
18:Dj:48:LEU:HD11	18:Dj:161:LYS:HB3	1.99	0.44
19:Dl:57:GLN:HG3	19:Dl:58:LEU:HD22	1.99	0.44
18:Ds:67:LYS:HE2	18:Ds:67:LYS:HB3	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Du:207:ARG:HG2	18:Dw:293:VAL:HB	2.00	0.44
7:D5:450:LYS:HE2	7:D5:450:LYS:HB2	1.85	0.44
7:EM:387:GLN:HE21	7:EM:387:GLN:HB2	1.63	0.44
7:EX:183:LEU:HB3	7:EY:163:ARG:HH22	1.82	0.44
7:EX:187:PRO:HB3	7:EX:199:ALA:N	2.32	0.44
7:Eb:142:LEU:O	7:Ec:158:ARG:NH1	2.50	0.44
7:Ee:153:ARG:O	7:Ee:157:GLU:HG2	2.17	0.44
7:Ei:229:VAL:HB	7:Ei:232:MET:SD	2.57	0.44
7:Eq:140:ASP:OD1	7:Eq:140:ASP:N	2.50	0.44
7:Er:241:ASP:N	7:Er:241:ASP:OD1	2.51	0.44
7:Ew:258:ALA:O	7:Ew:261:LYS:HG2	2.18	0.44
7:Ez:258:ALA:O	7:Ez:261:LYS:HG2	2.18	0.44
7:E4:258:ALA:O	7:E4:261:LYS:HG2	2.18	0.44
7:E5:258:ALA:O	7:E5:261:LYS:HG2	2.18	0.44
2:3:108:SER:HB2	2:3:287:PHE:CZ	2.51	0.44
5:A:115:THR:HB	5:A:192:LEU:HD12	2.00	0.44
6:A2:323:LEU:HD11	6:A2:326:VAL:HG23	1.99	0.44
6:A2:429:LEU:CD2	5:P:238:GLN:HG3	2.41	0.44
5:AV:240:VAL:O	5:AV:244:ASN:ND2	2.45	0.44
5:AZ:227:VAL:HG21	6:At:430:GLN:HE21	1.81	0.44
5:AZ:228:THR:CG2	6:At:433:ILE:CD1	2.88	0.44
6:Ab:28:THR:HG22	6:K:38:PHE:CB	2.47	0.44
6:Ae:401:ASP:O	6:Ae:405:GLU:HG2	2.17	0.44
6:Ah:397:GLN:HG3	6:K:3:TYR:CZ	2.53	0.44
6:Ai:6:LEU:HD13	6:Ao:407:VAL:HG11	1.99	0.44
6:Ar:198:MET:HG3	6:Ar:288:ALA:HA	1.98	0.44
6:Ax:371:THR:CG2	5:S:161:ARG:HH22	2.30	0.44
6:G:51:LYS:HB2	6:G:51:LYS:HE3	1.76	0.44
6:O:109:PHE:CE1	6:O:119:THR:HG22	2.52	0.44
5:Q:226:ASN:O	5:Q:230:GLU:HG2	2.17	0.44
9:j:70:ILE:HD13	10:m:51:HIS:HB3	1.99	0.44
13:B7:27:GLU:HG3	13:B7:103:LYS:HE3	2.00	0.44
17:CA:158:ASN:HD22	17:CF:116:GLY:HA3	1.82	0.44
14:A9:243:GLN:NE2	14:BD:202:THR:HG23	2.32	0.44
14:CP:256:ASN:HB3	14:CU:245:MET:SD	2.57	0.44
15:CQ:134:VAL:HG21	13:CT:83:HIS:CD2	2.52	0.44
13:CT:27:GLU:HG3	13:CT:103:LYS:HE3	2.00	0.44
17:CX:184:ILE:HD12	17:CX:235:LEU:HD13	1.99	0.44
13:CY:27:GLU:HG3	13:CY:103:LYS:HE3	2.00	0.44
13:Cd:27:GLU:HG3	13:Cd:103:LYS:HE3	2.00	0.44
13:Ci:27:GLU:HG3	13:Ci:103:LYS:HE3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Cm:207:LEU:HD11	17:Cm:238:ILE:HD11	1.99	0.44
13:Cn:308:ARG:HB3	13:Cn:351:GLU:HA	1.99	0.44
14:Co:64:PRO:HB2	14:Ct:37:VAL:HG13	1.98	0.44
17:Cr:158:ASN:HD22	17:Cw:116:GLY:HA3	1.82	0.44
14:Ct:64:PRO:HB2	14:Cy:37:VAL:HG13	1.98	0.44
13:C3:241:ARG:NH1	13:C8:259:ALA:HB2	2.33	0.44
17:BG:184:ILE:HD12	17:BG:235:LEU:HD13	1.99	0.44
15:BJ:134:VAL:HG21	13:BM:83:HIS:CD2	2.52	0.44
17:BL:180:ARG:HH22	13:BR:188:ASP:CG	2.13	0.44
13:BR:157:LEU:O	13:BR:161:SER:OG	2.27	0.44
14:BS:256:ASN:HB3	14:BX:245:MET:SD	2.57	0.44
13:BW:308:ARG:HB3	13:BW:351:GLU:HA	1.99	0.44
14:Bc:243:GLN:NE2	14:Bh:202:THR:HG23	2.32	0.44
19:DC:130:ARG:O	19:DC:133:PRO:HD2	2.17	0.44
19:DK:105:GLN:HE21	19:DK:105:GLN:HB2	1.50	0.44
18:DP:279:ASP:OD1	18:DP:282:ARG:NH2	2.50	0.44
18:DQ:102:ASP:OD2	18:DQ:133:ARG:NH1	2.50	0.44
18:DU:292:GLN:OE1	18:DU:292:GLN:N	2.48	0.44
19:DV:143:ASN:O	19:DV:147:ARG:HG3	2.17	0.44
19:DW:207:ARG:HG2	18:DY:293:VAL:HB	2.00	0.44
19:DZ:122:THR:HG22	19:DZ:123:LEU:HG	1.98	0.44
19:DZ:143:ASN:O	19:DZ:147:ARG:HG3	2.17	0.44
18:Dg:245:ARG:HG3	18:Dg:258:ILE:HG21	1.98	0.44
19:Dh:57:GLN:HG3	19:Dh:58:LEU:HD22	1.99	0.44
18:Ds:45:GLU:HG3	18:Ds:63:ARG:HG3	1.99	0.44
18:Dv:48:LEU:HD11	18:Dv:161:LYS:HB3	1.99	0.44
18:Dw:58:ALA:HB1	18:Dw:72:PHE:CE1	2.53	0.44
18:Dw:86:VAL:HG21	18:Dw:109:PHE:CG	2.53	0.44
7:D3:258:ALA:O	7:D3:261:LYS:HG2	2.18	0.44
7:D5:258:ALA:O	7:D5:261:LYS:HG2	2.18	0.44
20:D9:7:ASP:HA	7:ES:374:ASN:OD1	2.17	0.44
7:EO:258:ALA:O	7:EO:261:LYS:HG2	2.18	0.44
7:Eb:167:LEU:HD23	7:Eb:167:LEU:HA	1.73	0.44
7:Ef:241:ASP:OD2	7:Ef:245:ARG:NH1	2.51	0.44
7:Ek:153:ARG:HA	7:Ek:153:ARG:NE	2.32	0.44
7:Ep:146:MET:HB3	7:Ep:150:VAL:HG21	1.98	0.44
7:Eq:241:ASP:OD1	7:Eq:245:ARG:N	2.51	0.44
7:Er:204:PHE:CE1	7:Er:206:THR:HG22	2.51	0.44
7:Es:203:VAL:HG13	7:Es:239:VAL:HG22	1.99	0.44
7:Et:226:ALA:HA	7:Et:232:MET:SD	2.58	0.44
3:5:87:VAL:C	3:5:89:TYR:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:6:67:HIS:HD2	3:7:11:ARG:HH22	1.66	0.44
5:AV:32:VAL:HG11	5:AV:220:LEU:HD22	2.00	0.44
5:Aa:37:SER:HB3	5:Aa:77:THR:HG22	1.99	0.44
5:Aa:82:THR:HG22	5:Aa:224:ASN:HD22	1.81	0.44
6:Ac:68:HIS:CD2	6:Ac:399:ASN:HB2	2.52	0.44
6:Af:401:ASP:O	6:Af:405:GLU:HG2	2.16	0.44
6:Ag:109:PHE:CE1	6:Ag:119:THR:HG22	2.53	0.44
6:Al:184:ASP:OD1	6:Al:184:ASP:N	2.51	0.44
6:Am:351:LEU:HD13	6:Am:390:ILE:HD11	1.99	0.44
6:An:239:ASP:OD1	6:An:239:ASP:N	2.42	0.44
6:Aq:46:LEU:HD11	5:P:150:ILE:HG13	1.98	0.44
6:Ar:253:PHE:HD2	6:Ar:259:LEU:HA	1.83	0.44
6:Av:16:LEU:HD13	6:Av:16:LEU:HA	1.86	0.44
5:B:115:THR:HB	5:B:192:LEU:HD12	1.99	0.44
5:C:50:ASN:ND2	5:C:63:PRO:O	2.40	0.44
6:M:130:VAL:HG22	6:M:347:GLY:HA2	1.99	0.44
5:Z:226:ASN:O	5:Z:230:GLU:HG2	2.17	0.44
5:a:29:ALA:HA	5:a:225:VAL:HG21	1.99	0.44
9:i:66:LYS:HE3	9:i:68:MET:HG2	1.99	0.44
9:l:129:LEU:HD22	11:v:67:LEU:HD12	1.99	0.44
10:n:131:LEU:HD23	10:n:148:VAL:HG11	1.99	0.44
13:B7:350:TYR:OH	13:B7:355:GLU:OE2	2.26	0.44
14:B8:202:THR:HG23	14:B2:243:GLN:NE2	2.32	0.44
13:CB:27:GLU:HG3	13:CB:103:LYS:HE3	2.00	0.44
13:CJ:241:ARG:NH1	13:A8:259:ALA:HB2	2.33	0.44
14:A4:37:VAL:HG13	14:C9:64:PRO:HB2	1.98	0.44
13:A8:241:ARG:NH1	13:BC:259:ALA:HB2	2.33	0.44
15:CL:134:VAL:HG21	13:CO:83:HIS:CD2	2.52	0.44
17:CN:184:ILE:HD12	17:CN:235:LEU:HD13	1.99	0.44
13:CO:92:SER:HB3	13:CO:103:LYS:HB3	1.99	0.44
14:CU:109:VAL:HB	14:CU:177:ILE:HG23	1.99	0.44
13:CY:92:SER:HB3	13:CY:103:LYS:HB3	1.99	0.44
13:Ci:97:ARG:HE	13:Ci:99:LYS:HZ3	1.65	0.44
13:Cn:334:ARG:HD3	13:Cs:353:GLU:CG	2.43	0.44
13:Cs:308:ARG:HB3	13:Cs:351:GLU:HA	1.99	0.44
13:C3:92:SER:HB3	13:C3:103:LYS:HB3	1.99	0.44
14:C9:109:VAL:HB	14:C9:177:ILE:HG23	1.99	0.44
13:B1:362:ASN:O	18:Dv:91:MET:HE1	2.17	0.44
14:B2:109:VAL:HB	14:B2:177:ILE:HG23	1.99	0.44
13:BM:362:ASN:O	18:Df:91:MET:HE1	2.17	0.44
13:Bg:334:ARG:HD3	13:Bl:353:GLU:CG	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bl:334:ARG:HD3	13:Bq:353:GLU:CG	2.43	0.44
13:Bq:92:SER:HB3	13:Bq:103:LYS:HB3	1.99	0.44
18:DM:102:ASP:OD2	18:DM:133:ARG:NH1	2.51	0.44
18:DY:247:TYR:O	18:DY:250:SER:OG	2.25	0.44
18:Dk:58:ALA:HB1	18:Dk:72:PHE:CE1	2.53	0.44
18:Ds:58:ALA:HB1	18:Ds:72:PHE:CE1	2.52	0.44
18:Ds:86:VAL:HG21	18:Ds:109:PHE:CG	2.53	0.44
19:Dx:143:ASN:O	19:Dx:147:ARG:HG3	2.17	0.44
7:EL:258:ALA:O	7:EL:261:LYS:HG2	2.18	0.44
7:EO:369:LYS:HE3	7:EO:369:LYS:HB3	1.85	0.44
7:ES:258:ALA:O	7:ES:261:LYS:HG2	2.18	0.44
7:EX:153:ARG:HG3	7:EY:156:GLN:HE22	1.82	0.44
7:Eb:227:SER:O	7:Ec:200:SER:OG	2.24	0.44
7:Eb:229:VAL:HG11	7:Eb:232:MET:HE3	2.00	0.44
7:Eg:167:LEU:HD23	7:Eg:167:LEU:HA	1.77	0.44
7:En:215:GLN:O	7:En:219:ASP:HB2	2.17	0.44
7:Ex:258:ALA:O	7:Ex:261:LYS:HG2	2.18	0.44
7:E1:258:ALA:O	7:E1:261:LYS:HG2	2.17	0.44
1:0:33:ASN:ND2	9:l:95:TYR:O	2.34	0.44
1:0:136:ASP:CB	7:AF:356:MET:HE3	2.47	0.44
6:A1:325:LYS:HE3	6:A1:325:LYS:HB2	1.77	0.44
7:AA:353:VAL:O	7:AA:356:MET:HG2	2.17	0.44
5:AR:226:ASN:HB3	5:AR:229:GLU:HB2	2.00	0.44
5:AY:48:ASN:HD21	5:AY:51:GLN:NE2	2.15	0.44
5:Aa:228:THR:OG1	6:Au:433:ILE:HD12	2.17	0.44
6:Al:402:MET:O	6:Al:406:LEU:HD23	2.18	0.44
6:Am:211:ASP:HB3	6:Am:217:THR:HB	1.99	0.44
6:Aq:172:LEU:HB3	6:Aq:212:GLN:HB2	2.00	0.44
6:Ax:223:THR:HG22	6:Ax:232:PRO:HA	1.99	0.44
6:Ay:59:GLN:OE1	5:T:216:ARG:NH2	2.51	0.44
6:H:179:ASP:OD1	6:H:181:SER:OG	2.32	0.44
6:J:153:LYS:HD3	6:J:153:LYS:HA	1.81	0.44
5:S:1:MET:HE2	5:S:5:LEU:HD22	2.00	0.44
5:T:38:ARG:HH22	5:Y:87:GLN:NE2	2.16	0.44
5:V:19:ILE:HG23	5:V:234:MET:HE1	1.99	0.44
11:s:48:GLN:HE21	11:s:81:PHE:HB2	1.81	0.44
12:x:71:GLU:HA	12:x:77:LYS:HD2	1.99	0.44
17:CI:175:PRO:HB2	14:A4:80:ALA:HB2	2.00	0.44
14:CK:256:ASN:HB3	14:CP:245:MET:SD	2.57	0.44
13:CO:308:ARG:HB3	13:CO:351:GLU:HA	1.99	0.44
14:CU:133:MET:CG	14:CZ:157:ASN:HD21	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Cd:308:ARG:HB3	13:Cd:351:GLU:HA	1.99	0.44
13:Ci:92:SER:HB3	13:Ci:103:LYS:HB3	1.99	0.44
14:Cj:109:VAL:HB	14:Cj:177:ILE:HG23	1.99	0.44
13:Cn:27:GLU:HG3	13:Cn:103:LYS:HE3	2.00	0.44
13:Cn:304:MET:HB2	13:Cn:356:LEU:HD11	1.99	0.44
13:Cs:157:LEU:O	13:Cs:161:SER:OG	2.27	0.44
13:Cs:304:MET:HB2	13:Cs:356:LEU:HD11	1.99	0.44
15:Cz:134:VAL:HG21	13:C3:83:HIS:CD2	2.52	0.44
13:C3:205:THR:OG1	14:C4:32:THR:HG22	2.18	0.44
13:C8:205:THR:OG1	14:C9:32:THR:HG22	2.18	0.44
18:DA:86:VAL:HG21	18:DA:109:PHE:CG	2.53	0.44
13:B1:350:TYR:OH	13:B1:355:GLU:OE2	2.26	0.44
14:B2:245:MET:SD	14:Bw:256:ASN:HB3	2.57	0.44
13:B6:27:GLU:HG3	13:B6:103:LYS:HE3	2.00	0.44
13:BH:92:SER:HB3	13:BH:103:LYS:HB3	1.99	0.44
17:BL:184:ILE:HD12	17:BL:235:LEU:HD13	1.99	0.44
17:BQ:184:ILE:HD12	17:BQ:235:LEU:HD13	1.99	0.44
13:BW:362:ASN:O	18:Dj:91:MET:HE1	2.17	0.44
15:BY:134:VAL:HG21	13:Bb:83:HIS:CD2	2.52	0.44
18:DE:102:ASP:OD2	18:DE:133:ARG:NH1	2.50	0.44
18:DQ:58:ALA:HB1	18:DQ:72:PHE:CE1	2.52	0.44
18:DT:279:ASP:OD1	18:DT:282:ARG:NH2	2.50	0.44
18:Dg:86:VAL:HG21	18:Dg:109:PHE:CG	2.53	0.44
18:Dk:86:VAL:HG21	18:Dk:109:PHE:CG	2.53	0.44
18:Dk:138:SER:HG	18:Dk:148:ARG:HH11	1.57	0.44
18:Dn:48:LEU:HD11	18:Dn:161:LYS:HB3	1.99	0.44
18:Do:86:VAL:HG21	18:Do:109:PHE:CG	2.53	0.44
19:Dq:207:ARG:HG2	18:Ds:293:VAL:HB	2.00	0.44
7:Dz:258:ALA:O	7:Dz:261:LYS:HG2	2.18	0.44
7:Eb:150:VAL:HG12	7:Eb:154:LEU:HD23	1.99	0.44
7:Eb:221:ILE:HA	7:Eb:221:ILE:HD13	1.76	0.44
7:Ec:156:GLN:HE22	7:Ed:153:ARG:HD2	1.82	0.44
7:Ee:163:ARG:HA	7:Ee:166:GLN:HE21	1.83	0.44
7:Ee:198:GLU:HG2	7:Ee:233:LYS:HE2	2.00	0.44
7:Ek:176:GLN:OE1	7:Ek:176:GLN:N	2.47	0.44
7:Eq:183:LEU:HD12	7:Er:163:ARG:HH21	1.83	0.44
2:2:187:THR:O	7:Ed:192:PHE:CD1	2.71	0.44
3:5:8:GLU:HG2	3:5:83:ARG:HH22	1.82	0.44
3:7:4:GLU:HB2	7:Ed:152:GLN:HE22	1.83	0.44
6:A3:141:GLU:H	6:A3:141:GLU:HG3	1.66	0.44
6:Ab:28:THR:HG22	6:K:38:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ab:370:SER:OG	6:Ab:375:GLY:O	2.34	0.44
6:Ac:48:THR:CG2	6:An:68:HIS:HB2	2.48	0.44
6:Ag:397:GLN:HG3	6:J:3:TYR:CE1	2.52	0.44
6:Ah:40:ASP:H	6:Am:366:THR:HG23	1.82	0.44
6:Ak:141:GLU:H	6:Ak:141:GLU:HG3	1.65	0.44
6:Al:211:ASP:HB3	6:Al:217:THR:HB	1.99	0.44
6:Ap:198:MET:HG3	6:Ap:288:ALA:HA	1.99	0.44
6:As:45:SER:OG	6:As:46:LEU:N	2.50	0.44
6:Au:32:LYS:HG3	6:Au:67:PHE:CE1	2.53	0.44
6:Ay:109:PHE:HE1	6:Ay:119:THR:HG22	1.82	0.44
5:B:106:THR:OG1	5:B:138:GLU:OE2	2.36	0.44
5:C:166:GLN:O	5:C:167:ASP:HB2	2.18	0.44
6:K:119:THR:HG23	6:K:123:GLU:O	2.18	0.44
5:Q:38:ARG:HH11	5:Q:78:GLN:NE2	2.16	0.44
5:a:19:ILE:HG23	5:a:234:MET:HE1	1.99	0.44
10:o:105:LEU:HA	10:o:115:ASN:HA	2.00	0.44
10:q:1:MET:SD	10:q:1:MET:N	2.79	0.44
10:q:82:ILE:HD11	10:q:88:ILE:HG13	2.00	0.44
11:v:55:GLN:NE2	11:v:74:ARG:HE	2.16	0.44
12:x:68:GLN:CD	7:En:152:GLN:HG2	2.39	0.44
13:CB:259:ALA:HB2	13:B6:241:ARG:NH1	2.33	0.44
17:CF:158:ASN:HD22	17:CN:116:GLY:HA3	1.82	0.44
18:CG:216:ASP:O	18:CG:257:ARG:HB3	2.18	0.44
13:A8:308:ARG:HB3	13:A8:351:GLU:HA	1.99	0.44
13:CT:206:VAL:HG21	14:CU:36:ALA:HA	1.99	0.44
13:Cs:92:SER:HB3	13:Cs:103:LYS:HB3	1.99	0.44
17:Cw:175:PRO:HB2	14:Cy:80:ALA:HB2	2.00	0.44
13:Cx:308:ARG:HB3	13:Cx:351:GLU:HA	1.99	0.44
14:Cy:64:PRO:HB2	14:C4:37:VAL:HG13	1.98	0.44
18:DA:102:ASP:OD2	18:DA:133:ARG:NH1	2.51	0.44
13:B1:27:GLU:HG3	13:B1:103:LYS:HE3	2.00	0.44
13:B1:226:VAL:HG21	13:B1:281:LEU:HD21	2.00	0.44
15:B3:134:VAL:HG21	13:B6:83:HIS:CD2	2.52	0.44
14:BD:133:MET:CG	14:BI:157:ASN:HD21	2.26	0.44
17:BQ:207:LEU:HD11	17:BQ:238:ILE:HD11	2.00	0.44
13:BW:241:ARG:NH1	13:Bb:259:ALA:HB2	2.33	0.44
13:Bb:304:MET:HB2	13:Bb:356:LEU:HD11	1.99	0.44
13:Bb:334:ARG:HD3	13:Bg:353:GLU:CG	2.43	0.44
13:Bg:304:MET:HB2	13:Bg:356:LEU:HD11	1.99	0.44
13:Bq:334:ARG:HD3	13:Bv:353:GLU:CG	2.43	0.44
15:Bs:134:VAL:HG21	13:Bv:83:HIS:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DB:122:THR:HG22	19:DB:123:LEU:HG	1.98	0.44
18:DE:86:VAL:HG21	18:DE:109:PHE:CG	2.53	0.44
18:DI:86:VAL:HG21	18:DI:109:PHE:CG	2.53	0.44
18:DL:279:ASP:OD1	18:DL:282:ARG:NH2	2.49	0.44
19:DO:207:ARG:HG2	18:DQ:293:VAL:HB	2.00	0.44
18:DP:216:ASP:O	18:DP:257:ARG:HB3	2.18	0.44
18:DQ:45:GLU:HG3	18:DQ:63:ARG:HG3	1.99	0.44
18:DX:216:ASP:O	18:DX:257:ARG:HB3	2.18	0.44
18:DX:222:THR:HG22	18:DX:284:VAL:HG22	1.98	0.44
18:DY:86:VAL:HG21	18:DY:109:PHE:CG	2.53	0.44
18:Db:48:LEU:HD11	18:Db:161:LYS:HB3	1.99	0.44
18:Db:58:ALA:HB1	18:Db:72:PHE:CE1	2.53	0.44
18:Dk:185:LEU:HB3	18:Dk:198:SER:HB3	1.99	0.44
18:Dn:279:ASP:OD1	18:Dn:282:ARG:NH2	2.49	0.44
19:Du:130:ARG:O	19:Du:133:PRO:HD2	2.17	0.44
20:D8:3:LEU:N	7:EM:319:SER:HB3	2.32	0.44
7:EZ:164:GLU:HG2	7:EZ:184:LEU:HD13	2.00	0.44
7:Eb:217:GLU:O	7:Eb:220:SER:OG	2.31	0.44
7:Ee:191:VAL:O	7:Ee:192:PHE:C	2.60	0.44
7:Ei:216:GLN:HE21	7:Ej:246:LEU:H	1.65	0.44
7:Em:174:MET:HE2	7:Em:174:MET:HA	2.00	0.44
7:Ey:258:ALA:O	7:Ey:261:LYS:HG2	2.18	0.44
22:2:301:PGT:H122	22:2:301:PGT:H32	1.48	0.43
2:3:114:VAL:O	2:3:118:ILE:HG12	2.17	0.43
5:AS:70:ALA:HB1	10:q:71:VAL:HG21	1.99	0.43
5:Aa:90:THR:O	6:Ap:48:THR:HA	2.18	0.43
6:Ae:430:GLN:HA	6:Ae:433:ILE:HD12	1.99	0.43
6:Af:223:THR:HG22	6:Af:232:PRO:HA	1.99	0.43
6:Af:413:GLN:HE22	6:O:428:GLN:NE2	2.15	0.43
6:Aj:415:ASN:O	6:Aj:419:ASN:ND2	2.46	0.43
6:Ao:82:ARG:HH11	6:Ao:396:GLU:HG2	1.82	0.43
6:As:422:SER:HA	6:Ax:409:LEU:HD21	1.98	0.43
6:Aw:184:ASP:OD1	6:Aw:184:ASP:N	2.51	0.43
6:Aw:433:ILE:HD11	5:Q:228:THR:HG23	1.98	0.43
5:B:96:MET:HG2	5:B:97:VAL:N	2.33	0.43
5:B:129:VAL:HG12	5:B:136:PRO:HA	2.00	0.43
6:D:187:ASN:OD1	6:D:210:LYS:N	2.49	0.43
6:J:433:ILE:HD11	6:O:416:PHE:HZ	1.82	0.43
6:L:69:GLU:OE1	6:L:82:ARG:NH2	2.51	0.43
6:N:401:ASP:O	6:N:405:GLU:HG2	2.18	0.43
5:P:115:THR:HB	5:P:192:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:258:VAL:HG13	5:X:262:LEU:HD22	1.99	0.43
22:e:202:PGT:H462	22:e:202:PGT:H432	1.63	0.43
11:w:96:LYS:O	11:w:100:ASN:ND2	2.45	0.43
2:y:204:ASP:OD1	2:y:204:ASP:N	2.46	0.43
2:z:125:LEU:HD22	2:z:263:LEU:HD11	1.98	0.43
13:B7:362:ASN:HD22	18:DE:89:ILE:CD1	2.15	0.43
13:CB:92:SER:HB3	13:CB:103:LYS:HB3	1.99	0.43
13:CJ:308:ARG:HB3	13:CJ:351:GLU:HA	1.99	0.43
17:CN:158:ASN:HD22	17:CS:116:GLY:HA3	1.82	0.43
13:CY:241:ARG:NH1	13:Cd:259:ALA:HB2	2.33	0.43
13:Ci:226:VAL:HG21	13:Ci:281:LEU:HD21	2.00	0.43
17:Cm:158:ASN:HD22	17:Cr:116:GLY:HA3	1.82	0.43
13:Cn:226:VAL:HG21	13:Cn:281:LEU:HD21	2.00	0.43
17:Cr:207:LEU:HD11	17:Cr:238:ILE:HD11	2.00	0.43
13:Cs:27:GLU:HG3	13:Cs:103:LYS:HE3	2.00	0.43
13:Cs:241:ARG:NH1	13:Cx:259:ALA:HB2	2.33	0.43
17:Cw:207:LEU:HD11	17:Cw:238:ILE:HD11	2.00	0.43
13:C3:226:VAL:HG21	13:C3:281:LEU:HD21	2.00	0.43
17:C7:175:PRO:HB2	14:C9:80:ALA:HB2	2.00	0.43
13:C8:226:VAL:HG21	13:C8:281:LEU:HD21	2.00	0.43
13:B1:83:HIS:CD2	15:Bx:134:VAL:HG21	2.52	0.43
13:B6:226:VAL:HG21	13:B6:281:LEU:HD21	2.00	0.43
17:BB:175:PRO:HB2	14:BD:80:ALA:HB2	2.00	0.43
14:BD:256:ASN:HB3	14:BI:245:MET:SD	2.58	0.43
17:BL:207:LEU:HD11	17:BL:238:ILE:HD11	2.00	0.43
13:Bg:241:ARG:NH1	13:Bl:259:ALA:HB2	2.33	0.43
15:Bi:134:VAL:HG21	13:Bl:83:HIS:CD2	2.52	0.43
14:Bm:243:GLN:NE2	14:Br:202:THR:HG23	2.32	0.43
15:Bn:134:VAL:HG21	13:Bq:83:HIS:CD2	2.52	0.43
14:Br:133:MET:CG	14:Bw:157:ASN:HD21	2.26	0.43
17:Bu:184:ILE:HD12	17:Bu:235:LEU:HD13	1.99	0.43
17:Bz:184:ILE:HD12	17:Bz:235:LEU:HD13	1.99	0.43
19:DJ:205:LYS:O	19:DJ:207:ARG:NH1	2.49	0.43
18:DL:216:ASP:OD2	18:DL:291:THR:OG1	2.24	0.43
18:DL:216:ASP:O	18:DL:257:ARG:HB3	2.18	0.43
18:DM:86:VAL:HG21	18:DM:109:PHE:CG	2.53	0.43
18:DQ:86:VAL:HG21	18:DQ:109:PHE:CG	2.53	0.43
18:DU:86:VAL:HG21	18:DU:109:PHE:CG	2.53	0.43
19:DV:205:LYS:O	19:DV:207:ARG:NH1	2.49	0.43
19:DW:144:LEU:HD11	19:DW:185:ILE:HD11	2.01	0.43
18:DX:48:LEU:HD11	18:DX:161:LYS:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DX:58:ALA:HB1	18:DX:72:PHE:CE1	2.53	0.43
18:Dc:86:VAL:HG21	18:Dc:109:PHE:CG	2.53	0.43
19:Dd:122:THR:HG22	19:Dd:123:LEU:HG	1.98	0.43
19:Dd:143:ASN:O	19:Dd:147:ARG:HG3	2.17	0.43
19:Dm:130:ARG:O	19:Dm:133:PRO:HD2	2.17	0.43
19:Dq:130:ARG:O	19:Dq:133:PRO:HD2	2.17	0.43
18:Dr:48:LEU:HD11	18:Dr:161:LYS:HB3	1.99	0.43
18:Dr:216:ASP:O	18:Dr:257:ARG:HB3	2.18	0.43
18:Ds:102:ASP:OD2	18:Ds:133:ARG:NH1	2.50	0.43
18:Dw:102:ASP:OD2	18:Dw:133:ARG:NH1	2.51	0.43
7:EH:387:GLN:HE21	7:EH:387:GLN:HB2	1.63	0.43
7:EO:450:LYS:HE2	7:EO:450:LYS:HB2	1.85	0.43
7:EQ:450:LYS:HE2	7:EQ:450:LYS:HB2	1.85	0.43
7:EU:369:LYS:HE3	7:EU:369:LYS:HB3	1.85	0.43
7:EW:258:ALA:O	7:EW:261:LYS:HG2	2.18	0.43
7:EX:153:ARG:NE	7:EX:153:ARG:HA	2.31	0.43
7:EX:181:ARG:HD2	7:EY:170:ALA:HB2	2.00	0.43
7:Ed:173:GLU:HB3	7:Ee:204:PHE:CE1	2.53	0.43
7:Ej:206:THR:HA	7:Ej:242:GLN:HG2	2.00	0.43
7:Et:174:MET:HE2	7:Et:174:MET:HA	1.99	0.43
3:5:12:GLU:OE1	3:5:83:ARG:NH1	2.50	0.43
3:5:15:TRP:CZ2	7:EZ:148:PHE:HB2	2.53	0.43
6:A3:362:LYS:HD3	6:Ax:42:TYR:CE1	2.53	0.43
5:AU:70:ALA:HB1	10:m:71:VAL:HG21	1.99	0.43
5:AV:166:GLN:O	5:AV:167:ASP:HB2	2.17	0.43
5:AY:226:ASN:O	5:AY:230:GLU:HG2	2.18	0.43
5:Aa:226:ASN:O	5:Aa:230:GLU:HG2	2.18	0.43
6:Ag:35:ARG:NH2	6:Ag:37:GLU:OE2	2.37	0.43
6:Al:183:PRO:HA	6:Al:186:TYR:CZ	2.53	0.43
6:Au:49:ASN:O	6:Au:50:ALA:HB3	2.18	0.43
6:Ay:125:LEU:O	6:Ay:144:PRO:HA	2.18	0.43
5:B:95:MET:O	5:B:118:GLY:HA3	2.18	0.43
5:C:93:LEU:HD23	5:C:121:THR:HA	1.99	0.43
5:T:226:ASN:O	5:T:230:GLU:HG2	2.18	0.43
8:b:21:ARG:NH1	8:b:48:GLU:OE1	2.51	0.43
9:i:44:ALA:O	9:i:73:SER:N	2.46	0.43
9:k:100:ASN:HB3	9:k:103:GLU:HG2	1.99	0.43
10:m:211:ALA:O	10:m:215:MET:HG2	2.18	0.43
14:B8:245:MET:SD	14:B2:256:ASN:HB3	2.57	0.43
13:CB:362:ASN:O	18:CG:91:MET:HE1	2.17	0.43
18:CG:216:ASP:OD2	18:CG:291:THR:OG1	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CO:226:VAL:HG21	13:CO:281:LEU:HD21	2.01	0.43
17:CS:158:ASN:HD22	17:CX:116:GLY:HA3	1.82	0.43
13:CT:226:VAL:HG21	13:CT:281:LEU:HD21	2.00	0.43
13:Cx:27:GLU:HG3	13:Cx:103:LYS:HE3	2.00	0.43
13:Cx:205:THR:OG1	14:Cy:32:THR:HG22	2.18	0.43
13:Cx:226:VAL:HG21	13:Cx:281:LEU:HD21	2.00	0.43
17:C2:175:PRO:HB2	14:C4:80:ALA:HB2	2.00	0.43
13:C3:148:ASP:OD2	13:C3:256:THR:OG1	2.28	0.43
13:C3:308:ARG:HB3	13:C3:351:GLU:HA	1.99	0.43
13:C8:308:ARG:HB3	13:C8:351:GLU:HA	1.99	0.43
18:DA:222:THR:HG22	18:DA:284:VAL:HG22	2.00	0.43
13:B1:92:SER:HB3	13:B1:103:LYS:HB3	1.99	0.43
14:B2:102:GLY:N	14:B2:105:ASP:OD2	2.48	0.43
13:BC:308:ARG:HB3	13:BC:351:GLU:HA	1.99	0.43
13:BH:241:ARG:NH1	13:BM:259:ALA:HB2	2.33	0.43
13:BH:308:ARG:HB3	13:BH:351:GLU:HA	1.99	0.43
13:BW:304:MET:HB2	13:BW:356:LEU:HD11	1.99	0.43
15:Bd:134:VAL:HG21	13:Bg:83:HIS:CD2	2.52	0.43
13:Bl:206:VAL:HG21	14:Bm:36:ALA:HA	1.98	0.43
13:Bl:241:ARG:NH1	13:Bq:259:ALA:HB2	2.33	0.43
18:DD:58:ALA:HB1	18:DD:72:PHE:CE1	2.53	0.43
18:DD:161:LYS:HA	18:DD:161:LYS:HD3	1.79	0.43
19:De:130:ARG:O	19:De:133:PRO:HD2	2.17	0.43
19:Dh:143:ASN:O	19:Dh:147:ARG:HG3	2.17	0.43
18:Dn:86:VAL:HG21	18:Dn:109:PHE:CG	2.54	0.43
18:Dn:256:ASP:OD1	18:Dn:256:ASP:N	2.46	0.43
18:Do:45:GLU:HG3	18:Do:63:ARG:HG3	1.99	0.43
18:Do:222:THR:HG22	18:Do:284:VAL:HG22	2.00	0.43
18:Dr:86:VAL:HG21	18:Dr:109:PHE:CG	2.54	0.43
18:Ds:222:THR:HG22	18:Ds:284:VAL:HG22	2.00	0.43
18:Dv:161:LYS:HA	18:Dv:161:LYS:HD3	1.79	0.43
7:EG:258:ALA:O	7:EG:261:LYS:HG2	2.18	0.43
7:EK:258:ALA:O	7:EK:261:LYS:HG2	2.18	0.43
7:EN:258:ALA:O	7:EN:261:LYS:HG2	2.18	0.43
7:ET:258:ALA:O	7:ET:261:LYS:HG2	2.18	0.43
7:Ee:206:THR:O	7:Ee:206:THR:OG1	2.32	0.43
7:Eh:215:GLN:HA	7:Eh:218:VAL:HG12	2.00	0.43
7:Eq:232:MET:HE2	7:Eq:232:MET:HB2	1.73	0.43
7:Et:234:THR:HA	7:Et:237:ILE:HD13	1.99	0.43
7:Ev:258:ALA:O	7:Ev:261:LYS:HG2	2.18	0.43
6:A1:413:GLN:HG3	6:Av:429:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A1:414:ARG:HD2	6:Au:430:GLN:CD	2.43	0.43
6:A3:429:LEU:HD11	5:Q:19:ILE:HD13	2.00	0.43
6:A3:429:LEU:HD11	5:Q:19:ILE:CD1	2.48	0.43
5:AR:93:LEU:HD13	5:AR:121:THR:HA	1.99	0.43
5:AT:191:ASN:ND2	5:a:43:ASP:OD1	2.51	0.43
5:AZ:94:ASP:HB2	5:AZ:220:LEU:HD21	2.00	0.43
5:AZ:119:GLN:NE2	6:Az:37:GLU:CG	2.73	0.43
5:Aa:150:ILE:CG1	6:Ap:46:LEU:HD11	2.37	0.43
6:Ac:223:THR:HG22	6:Ac:232:PRO:HA	2.00	0.43
6:Ac:433:ILE:HD11	6:Ah:416:PHE:HZ	1.82	0.43
6:Af:6:LEU:HD13	6:Al:407:VAL:HG11	1.99	0.43
6:Af:322:PHE:H	6:Af:339:SER:H	1.67	0.43
6:Ai:322:PHE:H	6:Ai:339:SER:H	1.66	0.43
6:Aj:183:PRO:HA	6:Aj:186:TYR:CZ	2.54	0.43
6:Av:109:PHE:CE1	6:Av:119:THR:HG22	2.53	0.43
6:Ay:46:LEU:HD12	5:Y:149:SER:N	2.33	0.43
6:Ay:92:ALA:HB2	6:Ay:126:LEU:HD21	1.99	0.43
6:Ay:109:PHE:CE1	6:Ay:119:THR:HG22	2.54	0.43
6:Ay:327:ASP:OD1	6:Ay:327:ASP:N	2.52	0.43
5:B:12:LEU:HD13	5:B:244:ASN:HB2	2.00	0.43
6:E:129:GLN:HB2	6:E:143:GLN:HE21	1.83	0.43
6:E:433:ILE:HD11	6:J:416:PHE:HZ	1.82	0.43
6:F:117:MET:HE3	6:F:125:LEU:HD23	2.01	0.43
6:G:80:ASP:O	6:G:393:GLY:N	2.51	0.43
6:M:351:LEU:HD13	6:M:390:ILE:HD11	2.00	0.43
9:g:100:ASN:O	9:g:104:GLU:HG2	2.18	0.43
10:n:15:ASN:ND2	10:n:228:GLN:HE22	2.16	0.43
10:p:40:GLN:HG2	10:p:62:PRO:HD3	1.99	0.43
10:q:21:LEU:HD23	10:q:39:ALA:HB2	2.00	0.43
2:y:108:SER:HB2	2:y:287:PHE:CZ	2.53	0.43
2:y:238:LEU:HD11	2:z:261:VAL:HG13	2.00	0.43
13:B7:226:VAL:HG21	13:B7:281:LEU:HD21	2.01	0.43
17:CA:184:ILE:HD12	17:CA:235:LEU:HD13	1.99	0.43
13:CB:206:VAL:HG21	14:CC:36:ALA:HA	1.98	0.43
17:CF:184:ILE:HD12	17:CF:235:LEU:HD13	1.99	0.43
18:CG:58:ALA:HB1	18:CG:72:PHE:CE1	2.53	0.43
14:A4:245:MET:SD	14:C9:256:ASN:HB3	2.57	0.43
17:A7:175:PRO:HB2	14:A9:80:ALA:HB2	2.00	0.43
17:A7:207:LEU:HD11	17:A7:238:ILE:HD11	1.99	0.43
13:CT:308:ARG:HB3	13:CT:351:GLU:HA	1.99	0.43
13:CY:308:ARG:HB3	13:CY:351:GLU:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CZ:109:VAL:HB	14:CZ:177:ILE:HG23	1.99	0.43
13:Cd:226:VAL:HG21	13:Cd:281:LEU:HD21	2.01	0.43
13:Cn:241:ARG:NH1	13:Cs:259:ALA:HB2	2.33	0.43
13:Cs:226:VAL:HG21	13:Cs:281:LEU:HD21	2.00	0.43
14:Ct:256:ASN:HB3	14:Cy:245:MET:SD	2.57	0.43
17:C2:207:LEU:HD11	17:C2:238:ILE:HD11	2.00	0.43
13:C3:157:LEU:O	13:C3:161:SER:OG	2.27	0.43
14:C4:64:PRO:HB2	14:C9:37:VAL:HG13	1.98	0.43
17:C7:207:LEU:HD11	17:C7:238:ILE:HD11	1.99	0.43
18:DA:293:VAL:HB	19:Dy:207:ARG:HG2	1.99	0.43
13:B1:259:ALA:HB2	13:Bv:241:ARG:NH1	2.33	0.43
14:B2:80:ALA:HB2	17:Bz:175:PRO:HB2	2.00	0.43
17:BG:175:PRO:HB2	14:BI:80:ALA:HB2	2.00	0.43
17:BG:207:LEU:HD11	17:BG:238:ILE:HD11	2.00	0.43
13:BM:241:ARG:NH1	13:BR:259:ALA:HB2	2.33	0.43
13:BR:304:MET:HB2	13:BR:356:LEU:HD11	1.99	0.43
13:BR:308:ARG:HB3	13:BR:351:GLU:HA	1.99	0.43
17:Ba:184:ILE:HD12	17:Ba:235:LEU:HD13	1.99	0.43
13:Bl:226:VAL:HG21	13:Bl:281:LEU:HD21	2.00	0.43
13:Bv:27:GLU:HG3	13:Bv:103:LYS:HE3	2.00	0.43
13:Bv:226:VAL:HG21	13:Bv:281:LEU:HD21	2.00	0.43
18:DD:216:ASP:O	18:DD:257:ARG:HB3	2.18	0.43
18:Dc:138:SER:HG	18:Dc:148:ARG:HH11	1.59	0.43
19:De:207:ARG:HG2	18:Dg:293:VAL:HB	1.99	0.43
18:Dj:86:VAL:HG21	18:Dj:109:PHE:CG	2.54	0.43
18:Dv:86:VAL:HG21	18:Dv:109:PHE:CG	2.54	0.43
7:D2:258:ALA:O	7:D2:261:LYS:HG2	2.18	0.43
7:D4:258:ALA:O	7:D4:261:LYS:HG2	2.18	0.43
7:EQ:258:ALA:O	7:EQ:261:LYS:HG2	2.18	0.43
7:EZ:221:ILE:HA	7:EZ:221:ILE:HD13	1.67	0.43
7:Ea:171:ILE:HG22	7:Ea:177:VAL:HG11	1.99	0.43
7:Eb:177:VAL:HG11	7:Eb:205:LEU:HD23	2.01	0.43
7:Eb:242:GLN:H	7:Eb:242:GLN:HG2	1.64	0.43
7:Ec:168:ALA:O	7:Ec:172:GLU:HG2	2.18	0.43
7:Ep:146:MET:HG2	7:Ep:155:GLU:OE1	2.18	0.43
7:Ep:200:SER:OG	7:Ep:201:ALA:N	2.51	0.43
7:Eq:167:LEU:O	7:Eq:171:ILE:HG12	2.18	0.43
7:Et:206:THR:O	7:Et:206:THR:OG1	2.36	0.43
7:E2:402:ASP:OD1	7:E2:448:SER:OG	2.33	0.43
7:AF:348:SER:O	7:AF:349:ILE:HB	2.17	0.43
5:AT:155:ASP:C	5:AT:207:PRO:HG2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AU:95:MET:HE1	5:AU:152:VAL:HG21	2.01	0.43
5:AY:226:ASN:ND2	6:Ax:13:GLN:HE22	1.95	0.43
6:Ac:141:GLU:H	6:Ac:141:GLU:HG3	1.59	0.43
6:Ad:48:THR:CG2	6:Ao:68:HIS:HB2	2.48	0.43
6:Ae:6:LEU:HD13	6:Ak:407:VAL:HG11	1.99	0.43
6:Af:57:GLY:H	6:Ak:21:ASN:HD22	1.66	0.43
6:Af:141:GLU:H	6:Af:141:GLU:HG3	1.71	0.43
6:Aj:402:MET:O	6:Aj:406:LEU:HD23	2.19	0.43
6:Am:401:ASP:O	6:Am:405:GLU:HG2	2.17	0.43
6:Ao:401:ASP:O	6:Ao:405:GLU:HG2	2.18	0.43
6:At:125:LEU:O	6:At:144:PRO:HA	2.17	0.43
6:Aw:207:TYR:OH	6:Aw:230:GLU:OE2	2.26	0.43
6:D:354:VAL:HG21	6:D:360:LEU:HD21	2.01	0.43
6:J:82:ARG:HG3	6:J:396:GLU:HG2	1.99	0.43
6:J:221:TYR:HB3	6:J:246:HIS:CE1	2.53	0.43
6:L:174:ASP:HB3	6:L:177:GLN:HB2	1.98	0.43
6:L:276:PRO:HA	6:L:282:PRO:HG3	1.99	0.43
5:a:226:ASN:O	5:a:230:GLU:HG2	2.18	0.43
9:h:27:ASN:OD1	9:h:42:TYR:OH	2.27	0.43
9:h:113:ARG:NH1	10:n:239:ASP:OD2	2.46	0.43
9:j:22:ASN:ND2	10:m:54:ARG:HE	2.14	0.43
15:B9:134:VAL:HG21	13:CB:83:HIS:CD2	2.52	0.43
14:CC:256:ASN:HB3	14:CK:245:MET:SD	2.58	0.43
17:CI:207:LEU:HD11	17:CI:238:ILE:HD11	2.00	0.43
13:A8:226:VAL:HG21	13:A8:281:LEU:HD21	2.01	0.43
13:CT:241:ARG:NH1	13:CY:259:ALA:HB2	2.33	0.43
17:Ch:158:ASN:HD22	17:Cm:116:GLY:HA3	1.82	0.43
13:Cs:205:THR:OG1	14:Ct:32:THR:HG22	2.18	0.43
13:Cx:304:MET:HB2	13:Cx:356:LEU:HD11	1.99	0.43
17:B5:184:ILE:HD12	17:B5:235:LEU:HD13	1.99	0.43
13:B6:188:ASP:CG	17:Bz:180:ARG:HH22	2.12	0.43
17:BB:207:LEU:HD11	17:BB:238:ILE:HD11	2.00	0.43
13:BH:157:LEU:O	13:BH:161:SER:OG	2.27	0.43
13:BM:308:ARG:HB3	13:BM:351:GLU:HA	1.99	0.43
17:BV:184:ILE:HD12	17:BV:235:LEU:HD13	1.99	0.43
17:Bf:184:ILE:HD12	17:Bf:235:LEU:HD13	1.99	0.43
13:Bq:226:VAL:HG21	13:Bq:281:LEU:HD21	2.00	0.43
13:Bv:148:ASP:OD2	13:Bv:256:THR:OG1	2.28	0.43
18:DH:216:ASP:O	18:DH:257:ARG:HB3	2.18	0.43
18:DT:48:LEU:HD11	18:DT:161:LYS:HB3	1.99	0.43
19:Da:144:LEU:HD11	19:Da:185:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:De:183:LYS:HE3	19:De:183:LYS:HB3	1.71	0.43
18:Df:86:VAL:HG21	18:Df:109:PHE:CG	2.54	0.43
19:Dh:205:LYS:O	19:Dh:207:ARG:NH1	2.49	0.43
18:Do:58:ALA:HB1	18:Do:72:PHE:CE1	2.53	0.43
18:Do:185:LEU:HB3	18:Do:198:SER:HB3	1.99	0.43
19:Dt:205:LYS:O	19:Dt:207:ARG:NH1	2.49	0.43
7:Ed:231:GLY:N	7:Ee:197:GLN:HE21	2.16	0.43
7:Et:185:ALA:HB3	7:Et:200:SER:HB3	2.00	0.43
7:E1:369:LYS:HE3	7:E1:369:LYS:HB3	1.85	0.43
3:4:20:MET:HE1	3:4:69:MET:HB3	2.00	0.43
6:A3:385:GLY:O	5:Q:163:ARG:CD	2.60	0.43
5:AP:145:GLU:HG3	5:AS:180:VAL:HG22	1.99	0.43
5:AU:155:ASP:OD1	5:Aa:57:SER:HA	2.19	0.43
6:Ab:137:VAL:HG11	6:Ab:140:TYR:CE2	2.53	0.43
6:Af:45:SER:HB3	6:Aq:69:GLU:HG3	2.00	0.43
6:Ag:329:ASP:OD2	6:Ag:333:SER:HB2	2.18	0.43
6:Al:322:PHE:H	6:Al:339:SER:H	1.67	0.43
6:Ap:130:VAL:HG12	6:Ap:137:VAL:HA	1.99	0.43
6:As:16:LEU:HD22	6:As:412:ALA:HB1	2.01	0.43
6:E:183:PRO:HA	6:E:186:TYR:CZ	2.53	0.43
6:F:183:PRO:HA	6:F:186:TYR:CZ	2.52	0.43
6:H:221:TYR:HB3	6:H:246:HIS:CE1	2.54	0.43
6:J:223:THR:HG22	6:J:232:PRO:HA	2.00	0.43
5:T:94:ASP:OD1	5:T:94:ASP:N	2.48	0.43
5:U:95:MET:HG3	5:U:217:GLN:HA	2.00	0.43
5:Y:36:LYS:HB3	5:Y:225:VAL:HG12	2.00	0.43
8:e:35:THR:O	8:e:92:ASN:ND2	2.52	0.43
10:m:218:LEU:O	10:m:222:GLN:HG3	2.18	0.43
10:n:77:ASP:N	10:n:77:ASP:OD1	2.51	0.43
14:B8:80:ALA:HB2	17:B5:175:PRO:HB2	2.00	0.43
14:B8:256:ASN:HB3	14:CC:245:MET:SD	2.57	0.43
17:CA:353:ALA:HB2	17:CF:253:ILE:CG1	2.49	0.43
13:CB:226:VAL:HG21	13:CB:281:LEU:HD21	2.01	0.43
17:CF:353:ALA:HB2	17:CN:253:ILE:CG1	2.49	0.43
18:CG:86:VAL:HG21	18:CG:109:PHE:CG	2.54	0.43
13:CJ:226:VAL:HG21	13:CJ:281:LEU:HD21	2.00	0.43
13:A8:304:MET:HB2	13:A8:356:LEU:HD11	1.99	0.43
17:CX:158:ASN:HD22	17:Cc:116:GLY:HA3	1.82	0.43
13:CY:226:VAL:HG21	13:CY:281:LEU:HD21	2.00	0.43
14:Ce:109:VAL:HB	14:Ce:177:ILE:HG23	1.99	0.43
17:C2:37:LEU:HB3	17:C2:124:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C7:37:LEU:HB3	17:C7:124:LEU:HB3	2.01	0.43
13:BC:226:VAL:HG21	13:BC:281:LEU:HD21	2.00	0.43
13:BM:304:MET:HB2	13:BM:356:LEU:HD11	1.99	0.43
17:BQ:175:PRO:HB2	14:BS:80:ALA:HB2	2.00	0.43
13:Bb:92:SER:HB3	13:Bb:103:LYS:HB3	1.99	0.43
13:Bq:27:GLU:HG3	13:Bq:103:LYS:HE3	2.00	0.43
13:Bq:241:ARG:NH1	13:Bv:259:ALA:HB2	2.33	0.43
18:DE:222:THR:HG22	18:DE:284:VAL:HG22	2.00	0.43
18:DT:58:ALA:HB1	18:DT:72:PHE:CE1	2.53	0.43
18:Db:86:VAL:HG21	18:Db:109:PHE:CG	2.53	0.43
18:Db:216:ASP:O	18:Db:257:ARG:HB3	2.18	0.43
18:Dj:216:ASP:O	18:Dj:257:ARG:HB3	2.18	0.43
18:Dn:216:ASP:O	18:Dn:257:ARG:HB3	2.18	0.43
18:Dr:279:ASP:OD1	18:Dr:282:ARG:NH2	2.49	0.43
18:Ds:161:LYS:HA	18:Ds:161:LYS:HD3	1.75	0.43
18:Dv:216:ASP:O	18:Dv:257:ARG:HB3	2.18	0.43
18:Dv:256:ASP:OD1	18:Dv:256:ASP:N	2.46	0.43
7:EH:258:ALA:O	7:EH:261:LYS:HG2	2.18	0.43
7:ER:258:ALA:O	7:ER:261:LYS:HG2	2.18	0.43
7:EX:163:ARG:HD3	7:EX:163:ARG:HA	1.74	0.43
7:Ep:174:MET:HE2	7:Ep:174:MET:HA	2.00	0.43
7:E2:258:ALA:O	7:E2:261:LYS:HG2	2.18	0.43
3:5:84:LEU:HD11	2:z:229:ILE:HG12	2.01	0.43
5:AS:166:GLN:O	5:AS:167:ASP:HB2	2.18	0.43
5:AW:78:GLN:NE2	5:AW:79:LYS:O	2.51	0.43
5:AY:31:THR:HG21	5:AY:191:ASN:HD21	1.83	0.43
5:AY:96:MET:HG3	5:AY:221:GLU:HB2	2.01	0.43
5:AZ:241:TYR:OH	6:Az:433:ILE:CD1	2.56	0.43
6:Ac:129:GLN:HB2	6:Ac:143:GLN:NE2	2.34	0.43
6:Ac:360:LEU:HB3	6:Ac:368:TRP:HB3	2.00	0.43
6:Ac:401:ASP:O	6:Ac:405:GLU:HG2	2.18	0.43
6:Ad:211:ASP:HB3	6:Ad:217:THR:HB	2.01	0.43
6:Ag:325:LYS:HE3	6:Ag:325:LYS:HB2	1.83	0.43
6:Ai:80:ASP:O	6:Ai:393:GLY:N	2.50	0.43
6:As:5:SER:OG	6:As:422:SER:OG	2.27	0.43
6:Ax:33:GLU:HG2	6:Ax:68:HIS:HE1	1.83	0.43
6:F:51:LYS:HE3	6:F:51:LYS:HB2	1.67	0.43
6:G:37:GLU:HG2	6:L:29:TYR:HE2	1.84	0.43
6:M:80:ASP:O	6:M:393:GLY:N	2.50	0.43
6:M:401:ASP:O	6:M:405:GLU:HG2	2.19	0.43
5:Q:78:GLN:NE2	5:W:131:SER:OG	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:V:37:SER:HB3	5:V:77:THR:HG23	2.01	0.43
5:Z:123:ASN:ND2	5:Z:127:THR:HB	2.33	0.43
5:a:91:ASN:HD22	5:a:93:LEU:H	1.66	0.43
8:f:15:THR:HG23	8:f:45:PHE:HZ	1.84	0.43
13:B7:259:ALA:HB2	13:CB:241:ARG:NH1	2.33	0.43
14:B8:36:ALA:HA	13:B6:206:VAL:HG21	1.99	0.43
14:CZ:50:VAL:HG22	14:CZ:53:LEU:HB2	2.01	0.43
17:Cc:158:ASN:HD22	17:Ch:116:GLY:HA3	1.82	0.43
17:Ch:37:LEU:HB3	17:Ch:124:LEU:HB3	2.00	0.43
17:Cr:175:PRO:HB2	14:Ct:80:ALA:HB2	2.00	0.43
17:Cw:37:LEU:HB3	17:Cw:124:LEU:HB3	2.01	0.43
13:C3:27:GLU:HG3	13:C3:103:LYS:HE3	2.00	0.43
13:B1:353:GLU:CG	13:Bv:334:ARG:HD3	2.43	0.43
14:B2:256:ASN:O	14:Br:127:LYS:NZ	2.40	0.43
13:BC:304:MET:HB2	13:BC:356:LEU:HD11	1.99	0.43
13:BH:304:MET:HB2	13:BH:356:LEU:HD11	1.99	0.43
13:BM:226:VAL:HG21	13:BM:281:LEU:HD21	2.00	0.43
13:BR:241:ARG:NH1	13:BW:259:ALA:HB2	2.33	0.43
13:Bb:226:VAL:HG21	13:Bb:281:LEU:HD21	2.00	0.43
17:Bk:184:ILE:HD12	17:Bk:235:LEU:HD13	1.99	0.43
18:DD:86:VAL:HG21	18:DD:109:PHE:CG	2.53	0.43
19:DG:207:ARG:HG2	18:DI:293:VAL:HB	2.00	0.43
18:DM:185:LEU:HB3	18:DM:198:SER:HB3	1.99	0.43
19:DS:144:LEU:HD11	19:DS:185:ILE:HD11	2.01	0.43
18:Df:216:ASP:O	18:Df:257:ARG:HB3	2.18	0.43
19:Di:144:LEU:HD11	19:Di:185:ILE:HD11	2.01	0.43
18:Dk:222:THR:HG22	18:Dk:284:VAL:HG22	2.00	0.43
7:El:150:VAL:HG11	7:El:158:ARG:NH1	2.33	0.43
7:En:172:GLU:OE2	7:En:179:LYS:HA	2.18	0.43
2:1:255:MET:HG2	2:2:257:SER:HA	2.01	0.43
3:4:81:ILE:HG13	2:y:278:LEU:HD21	2.01	0.43
5:AP:262:LEU:HG	9:l:109:ILE:HD11	1.99	0.43
5:AV:226:ASN:O	5:AV:230:GLU:HG2	2.19	0.43
5:Aa:48:ASN:HD21	5:Aa:51:GLN:HE22	1.65	0.43
5:Aa:92:ALA:HB2	6:Ap:47:PHE:O	2.18	0.43
6:Ab:48:THR:CG2	6:Am:68:HIS:HB2	2.49	0.43
6:Ar:49:ASN:O	6:Ar:50:ALA:CB	2.66	0.43
6:Aw:151:PHE:CE2	6:Aw:344:VAL:HG21	2.53	0.43
6:Ax:351:LEU:HD12	6:Ax:351:LEU:HA	1.90	0.43
6:D:168:ALA:O	6:D:210:LYS:NZ	2.51	0.43
6:E:82:ARG:NH1	6:E:396:GLU:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:187:ASN:OD1	6:F:210:LYS:N	2.48	0.43
6:G:93:LYS:NZ	6:G:123:GLU:OE2	2.39	0.43
6:G:276:PRO:HA	6:G:282:PRO:HG3	1.98	0.43
6:G:433:ILE:HD11	6:L:416:PHE:HZ	1.83	0.43
6:K:340:ASN:OD1	6:K:340:ASN:N	2.51	0.43
6:O:337:THR:HG22	6:O:343:ASN:OD1	2.19	0.43
5:T:83:HIS:NE2	5:T:96:MET:HE3	2.32	0.43
5:U:258:VAL:HG13	5:U:262:LEU:HD22	2.00	0.43
5:V:58:GLN:HE21	17:CA:76:LYS:HZ2	1.62	0.43
5:X:57:SER:O	5:X:58:GLN:HB2	2.18	0.43
8:b:33:ALA:O	8:b:92:ASN:ND2	2.51	0.43
8:f:5:PHE:HE2	22:v:202:PGT:H31	1.76	0.43
13:B7:236:PHE:CE1	13:B7:284:GLU:HG3	2.54	0.43
14:CC:109:VAL:HB	14:CC:177:ILE:HG23	1.99	0.43
13:CJ:83:HIS:HD2	15:C0:134:VAL:HG21	1.83	0.43
13:A8:157:LEU:O	13:A8:161:SER:OG	2.27	0.43
14:CK:102:GLY:N	14:CK:105:ASP:OD2	2.48	0.43
14:CP:168:LYS:HE3	14:CP:168:LYS:HB2	1.87	0.43
14:CU:50:VAL:HG22	14:CU:53:LEU:HB2	2.01	0.43
13:Cd:269:MET:HE3	13:Cd:269:MET:HB3	1.96	0.43
14:Ce:50:VAL:HG22	14:Ce:53:LEU:HB2	2.01	0.43
17:Ch:175:PRO:HB2	14:Cj:80:ALA:HB2	2.00	0.43
17:Cm:37:LEU:HB3	17:Cm:124:LEU:HB3	2.01	0.43
17:Cm:175:PRO:HB2	14:Co:80:ALA:HB2	2.00	0.43
13:C8:27:GLU:HG3	13:C8:103:LYS:HE3	2.00	0.43
17:BB:236:SER:O	17:BB:240:ASN:ND2	2.50	0.43
15:BT:134:VAL:HG21	13:BW:83:HIS:CD2	2.52	0.43
13:BW:226:VAL:HG21	13:BW:281:LEU:HD21	2.00	0.43
13:Bb:241:ARG:NH1	13:Bg:259:ALA:HB2	2.33	0.43
13:Bg:226:VAL:HG21	13:Bg:281:LEU:HD21	2.00	0.43
17:Bp:184:ILE:HD12	17:Bp:235:LEU:HD13	1.99	0.43
18:DH:279:ASP:OD1	18:DH:282:ARG:NH2	2.50	0.43
19:DN:205:LYS:O	19:DN:207:ARG:NH1	2.49	0.43
18:DQ:161:LYS:HA	18:DQ:161:LYS:HD3	1.75	0.43
19:DS:105:GLN:HE21	19:DS:105:GLN:HB2	1.50	0.43
19:DW:183:LYS:HE3	19:DW:183:LYS:HB3	1.71	0.43
19:De:144:LEU:HD11	19:De:185:ILE:HD11	2.01	0.43
18:Dn:58:ALA:HB1	18:Dn:72:PHE:CE1	2.53	0.43
7:EG:450:LYS:HB2	7:EG:450:LYS:HE2	1.85	0.43
7:EN:450:LYS:HE2	7:EN:450:LYS:HB2	1.85	0.43
7:Ei:242:GLN:H	7:Ei:242:GLN:HG3	1.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ep:163:ARG:HA	7:Ep:166:GLN:HE21	1.83	0.43
7:Ep:243:HIS:O	7:Eq:176:GLN:NE2	2.40	0.43
7:Es:146:MET:HG2	7:Es:155:GLU:OE1	2.19	0.43
7:Et:153:ARG:HA	7:Et:153:ARG:NE	2.33	0.43
7:Et:239:VAL:N	7:Et:248:SER:OG	2.51	0.43
7:Eu:258:ALA:O	7:Eu:261:LYS:HG2	2.18	0.43
7:Ew:450:LYS:HE2	7:Ew:450:LYS:HB2	1.85	0.43
2:2:92:LEU:HD13	22:2:301:PGT:C21	2.48	0.43
2:3:228:GLN:O	2:3:232:MET:HG2	2.18	0.43
3:7:16:MET:HE1	3:7:76:TYR:HB2	2.01	0.43
1:9:133:VAL:HG21	1:9:137:LEU:HD13	2.01	0.43
5:A:103:PHE:HB2	5:A:115:THR:HG23	2.00	0.43
6:A2:84:SER:OG	6:A2:391:ASN:ND2	2.52	0.43
5:AW:161:ARG:NE	5:Q:186:GLU:OE1	2.51	0.43
6:Ab:171:ASP:OD1	6:Ab:171:ASP:N	2.51	0.43
6:Ag:130:VAL:HG22	6:Ag:347:GLY:HA2	2.01	0.43
6:Ai:274:GLY:HA3	6:Ai:285:MET:HG3	2.00	0.43
6:An:82:ARG:HH11	6:An:396:GLU:HG2	1.82	0.43
6:As:46:LEU:CD1	5:S:149:SER:CA	2.95	0.43
6:Au:52:THR:O	6:Au:52:THR:HG22	2.18	0.43
6:Ay:171:ASP:OD1	6:Ay:187:ASN:ND2	2.51	0.43
6:Az:101:ASN:OD1	6:Az:377:LYS:NZ	2.52	0.43
6:G:151:PHE:CE2	6:G:344:VAL:HG21	2.54	0.43
6:H:129:GLN:HE21	6:H:129:GLN:HB2	1.64	0.43
6:I:95:ARG:HB2	6:I:124:PHE:CZ	2.54	0.43
6:K:259:LEU:HD21	6:K:262:LEU:HD11	2.00	0.43
6:N:84:SER:OG	6:N:391:ASN:ND2	2.52	0.43
5:Q:152:VAL:H	5:Q:217:GLN:NE2	2.16	0.43
5:V:101:GLY:HA3	5:V:176:ILE:HD12	2.00	0.43
5:Y:29:ALA:HA	5:Y:225:VAL:HG21	2.01	0.43
5:Y:43:ASP:OD1	5:Y:43:ASP:N	2.41	0.43
5:a:116:ARG:NH1	5:a:221:GLU:OE2	2.51	0.43
8:b:36:PRO:HB3	8:b:90:ASP:HB2	2.01	0.43
9:l:37:SER:N	10:q:43:SER:O	2.52	0.43
10:q:91:LEU:HD23	10:q:122:LEU:HD21	2.01	0.43
11:t:88:ARG:HB2	22:t:202:PGT:H422	1.99	0.43
2:y:206:PRO:HD3	7:Ep:192:PHE:CD2	2.49	0.43
15:A0:134:VAL:HG21	13:BC:83:HIS:HD2	1.83	0.43
13:CJ:27:GLU:HG3	13:CJ:103:LYS:HE3	2.00	0.43
13:CJ:157:LEU:O	13:CJ:161:SER:OG	2.27	0.43
13:CJ:304:MET:HB2	13:CJ:356:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:A5:134:VAL:HG21	13:A8:83:HIS:HD2	1.84	0.43
17:A7:37:LEU:HB3	17:A7:124:LEU:HB3	2.01	0.43
17:A7:236:SER:O	17:A7:240:ASN:ND2	2.50	0.43
13:A8:27:GLU:HG3	13:A8:103:LYS:HE3	2.00	0.43
13:CT:264:SER:O	13:CT:268:GLU:HG2	2.19	0.43
13:Cn:205:THR:OG1	14:Co:32:THR:HG22	2.18	0.43
17:Cr:37:LEU:HB3	17:Cr:124:LEU:HB3	2.00	0.43
13:Cs:264:SER:O	13:Cs:268:GLU:HG2	2.19	0.43
13:Cx:206:VAL:HG21	14:Cy:36:ALA:HA	1.98	0.43
14:Cy:109:VAL:HB	14:Cy:177:ILE:HG23	1.99	0.43
13:B1:264:SER:O	13:B1:268:GLU:HG2	2.19	0.43
13:BC:236:PHE:CE1	13:BC:284:GLU:HG3	2.54	0.43
13:BH:226:VAL:HG21	13:BH:281:LEU:HD21	2.01	0.43
17:BL:175:PRO:HB2	14:BN:80:ALA:HB2	2.00	0.43
13:BM:148:ASP:OD2	13:BM:256:THR:OG1	2.28	0.43
13:BW:225:LYS:HE3	13:BW:225:LYS:HB2	1.92	0.43
17:Bu:175:PRO:HB2	14:Bw:80:ALA:HB2	2.00	0.43
18:DH:58:ALA:HB1	18:DH:72:PHE:CE1	2.53	0.43
18:DH:86:VAL:HG21	18:DH:109:PHE:CG	2.54	0.43
18:DX:86:VAL:HG21	18:DX:109:PHE:CG	2.54	0.43
19:Dm:207:ARG:HG2	18:Do:293:VAL:HB	1.99	0.43
18:Dw:222:THR:HG22	18:Dw:284:VAL:HG22	2.01	0.43
16:D0:4:LEU:N	7:Ev:374:ASN:OD1	2.51	0.43
7:Eh:184:LEU:HG	7:Eh:232:MET:HE1	1.99	0.43
7:El:170:ALA:HA	7:Em:181:ARG:NH1	2.34	0.43
7:Ep:153:ARG:O	7:Ep:157:GLU:HG2	2.18	0.43
7:Ep:176:GLN:NE2	7:Ep:217:GLU:OE1	2.51	0.43
4:8:132:PHE:O	4:8:136:MET:HG2	2.19	0.43
4:8:176:TRP:HE1	4:8:251:GLN:HG2	1.83	0.43
1:9:30:HIS:HB3	1:9:38:ASP:O	2.19	0.43
6:A1:151:PHE:CE2	6:A1:344:VAL:HG21	2.54	0.43
6:A1:403:THR:HG23	6:Ap:433:ILE:HD13	2.01	0.43
5:AR:28:ASN:N	5:AR:28:ASN:OD1	2.51	0.43
5:AT:70:ALA:HB1	10:p:71:VAL:HG21	2.01	0.43
5:AZ:92:ALA:N	6:Ao:47:PHE:O	2.52	0.43
6:Ak:19:THR:O	6:Ak:23:ILE:HG13	2.18	0.43
6:Aq:16:LEU:HD13	6:Aq:16:LEU:HA	1.85	0.43
6:Aq:239:ASP:OD1	6:Aq:239:ASP:N	2.42	0.43
6:At:151:PHE:CE2	6:At:344:VAL:HG21	2.54	0.43
6:At:369:ASP:OD1	6:At:370:SER:N	2.51	0.43
6:Aw:369:ASP:OD1	6:Aw:370:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Az:3:TYR:HE1	5:U:87:GLN:HG2	1.82	0.43
5:B:22:ILE:HG21	5:B:234:MET:HG2	2.01	0.43
6:N:93:LYS:HE2	6:N:93:LYS:HB2	1.87	0.43
6:N:109:PHE:HE1	6:N:119:THR:HG22	1.83	0.43
5:T:48:ASN:HD21	5:T:51:GLN:HE21	1.65	0.43
5:T:123:ASN:HD21	5:T:127:THR:HB	1.82	0.43
9:l:13:ALA:O	9:l:17:GLU:HG2	2.19	0.43
10:m:97:GLU:O	10:m:183:ARG:NH1	2.52	0.43
10:o:154:PRO:HG2	10:o:157:GLU:HG3	1.99	0.43
13:B7:264:SER:O	13:B7:268:GLU:HG2	2.19	0.43
17:CA:253:ILE:CG1	17:B5:353:ALA:HB2	2.49	0.43
13:CB:350:TYR:OH	13:CB:355:GLU:OE2	2.26	0.43
18:CG:290:ARG:NH1	19:DB:207:ARG:O	2.52	0.43
17:CI:236:SER:O	17:CI:240:ASN:ND2	2.50	0.43
13:CJ:259:ALA:HB2	13:C8:241:ARG:NH1	2.33	0.43
13:CO:264:SER:O	13:CO:268:GLU:HG2	2.19	0.43
14:CP:50:VAL:HG22	14:CP:53:LEU:HB2	2.01	0.43
14:CP:109:VAL:HB	14:CP:177:ILE:HG23	1.99	0.43
13:CT:236:PHE:CE1	13:CT:284:GLU:HG3	2.54	0.43
14:Cj:50:VAL:HG22	14:Cj:53:LEU:HB2	2.01	0.43
17:Cm:353:ALA:HB2	17:Cr:253:ILE:CG1	2.49	0.43
13:C3:304:MET:HB2	13:C3:356:LEU:HD11	1.99	0.43
13:C8:304:MET:HB2	13:C8:356:LEU:HD11	1.99	0.43
13:B6:236:PHE:CE1	13:B6:284:GLU:HG3	2.54	0.43
17:BB:37:LEU:HB3	17:BB:124:LEU:HB3	2.01	0.43
13:BH:236:PHE:CE1	13:BH:284:GLU:HG3	2.54	0.43
13:BM:236:PHE:CE1	13:BM:284:GLU:HG3	2.54	0.43
13:Bl:27:GLU:HG3	13:Bl:103:LYS:HE3	2.00	0.43
14:Bm:102:GLY:N	14:Bm:105:ASP:OD2	2.48	0.43
19:DB:196:MET:HE3	19:DB:201:ILE:HG12	2.01	0.43
18:DE:224:THR:OG1	18:DE:233:SER:HB2	2.19	0.43
18:DE:292:GLN:OE1	18:DE:292:GLN:N	2.48	0.43
18:DH:290:ARG:NH1	19:DJ:207:ARG:O	2.52	0.43
18:DI:222:THR:HG22	18:DI:284:VAL:HG22	2.00	0.43
18:DI:224:THR:OG1	18:DI:233:SER:HB2	2.19	0.43
19:DK:144:LEU:HD11	19:DK:185:ILE:HD11	2.01	0.43
18:DL:86:VAL:HG21	18:DL:109:PHE:CG	2.54	0.43
18:DL:104:ILE:HD11	18:DL:128:GLU:HG3	2.01	0.43
18:DM:130:GLU:HG3	18:DM:159:GLN:HE21	1.84	0.43
19:DO:144:LEU:HD11	19:DO:185:ILE:HD11	2.01	0.43
18:DP:86:VAL:HG21	18:DP:109:PHE:CG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DT:86:VAL:HG21	18:DT:109:PHE:CG	2.54	0.43
18:Dc:130:GLU:HG3	18:Dc:159:GLN:HE21	1.84	0.43
19:Dm:144:LEU:HD11	19:Dm:185:ILE:HD11	2.01	0.43
18:Dr:58:ALA:HB1	18:Dr:72:PHE:CE1	2.53	0.43
18:Ds:292:GLN:OE1	18:Ds:292:GLN:N	2.48	0.43
7:Ee:163:ARG:HA	7:Ee:166:GLN:NE2	2.33	0.43
7:Ei:152:GLN:HE21	7:Ei:152:GLN:HB2	1.69	0.43
7:Ei:233:LYS:O	7:Ei:234:THR:C	2.61	0.43
7:El:163:ARG:HA	7:El:166:GLN:NE2	2.34	0.43
7:E1:450:LYS:HE2	7:E1:450:LYS:HB2	1.84	0.43
2:1:275:GLY:O	2:1:279:ILE:HG12	2.19	0.43
5:AQ:80:VAL:HG12	5:AQ:82:THR:HG23	2.01	0.43
5:AY:114:TYR:CE2	5:AY:195:PRO:HD3	2.54	0.43
6:Ab:37:GLU:HG2	6:Ag:29:TYR:HE2	1.83	0.43
6:Ab:433:ILE:HD11	6:Ag:416:PHE:CZ	2.53	0.43
6:Af:370:SER:OG	6:Af:375:GLY:O	2.36	0.43
6:Ak:95:ARG:HB2	6:Ak:124:PHE:CZ	2.54	0.43
6:An:184:ASP:OD1	6:An:184:ASP:N	2.52	0.43
6:Ap:33:GLU:HB3	6:Ap:400:ILE:HG22	2.00	0.43
6:Ap:130:VAL:HG22	6:Ap:347:GLY:HA2	2.00	0.43
6:Ap:276:PRO:HA	6:Ap:282:PRO:HG3	1.99	0.43
6:As:46:LEU:CG	5:S:150:ILE:HG13	2.48	0.43
6:E:105:ARG:HH11	6:E:396:GLU:CD	2.27	0.43
6:E:354:VAL:HG21	6:E:360:LEU:HD21	2.01	0.43
6:G:415:ASN:O	6:G:419:ASN:ND2	2.50	0.43
5:X:94:ASP:HB2	5:X:220:LEU:HD21	2.00	0.43
5:Y:115:THR:HB	5:Y:192:LEU:HD23	2.00	0.43
5:Y:148:ILE:HD13	5:Y:163:ARG:HG2	1.99	0.43
8:d:36:PRO:HB3	8:d:90:ASP:HB2	2.01	0.43
9:i:75:LYS:HB2	9:i:98:ASN:HD22	1.84	0.43
9:i:100:ASN:O	9:i:104:GLU:HG2	2.19	0.43
22:v:202:PGT:H432	22:v:202:PGT:H461	1.46	0.43
2:y:195:PHE:HB3	2:y:213:VAL:HG13	2.01	0.43
14:CC:133:MET:CG	14:CK:157:ASN:HD21	2.26	0.43
17:CI:37:LEU:HB3	17:CI:124:LEU:HB3	2.01	0.43
17:CS:175:PRO:HB2	14:CU:80:ALA:HB2	2.00	0.43
13:CY:264:SER:O	13:CY:268:GLU:HG2	2.19	0.43
17:Cc:37:LEU:HB3	17:Cc:124:LEU:HB3	2.01	0.43
13:Cd:264:SER:O	13:Cd:268:GLU:HG2	2.19	0.43
13:Ci:236:PHE:CE1	13:Ci:284:GLU:HG3	2.54	0.43
13:Ci:334:ARG:HD3	13:Cn:353:GLU:CG	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Cr:353:ALA:HB2	17:Cw:253:ILE:CG1	2.49	0.43
14:C9:107:ILE:HG23	14:C9:179:VAL:HG23	2.01	0.43
13:B6:350:TYR:OH	13:B6:355:GLU:OE2	2.26	0.43
13:BC:27:GLU:HG3	13:BC:103:LYS:HE3	2.00	0.43
14:BI:107:ILE:HG23	14:BI:179:VAL:HG23	2.01	0.43
13:BR:92:SER:HB3	13:BR:103:LYS:HB3	1.99	0.43
13:BR:226:VAL:HG21	13:BR:281:LEU:HD21	2.00	0.43
17:BV:175:PRO:HB2	14:BX:80:ALA:HB2	2.00	0.43
13:Bl:264:SER:O	13:Bl:268:GLU:HG2	2.19	0.43
13:Bq:236:PHE:CE1	13:Bq:284:GLU:HG3	2.54	0.43
18:DI:130:GLU:HG3	18:DI:159:GLN:HE21	1.84	0.43
18:DM:224:THR:OG1	18:DM:233:SER:HB2	2.19	0.43
18:Dc:67:LYS:HE2	18:Dc:67:LYS:HB3	1.76	0.43
18:Df:58:ALA:HB1	18:Df:72:PHE:CE1	2.53	0.43
18:Df:104:ILE:HD11	18:Df:128:GLU:HG3	2.01	0.43
18:Dg:130:GLU:HG3	18:Dg:159:GLN:HE21	1.84	0.43
18:Dj:58:ALA:HB1	18:Dj:72:PHE:CE1	2.53	0.43
19:Dl:196:MET:HE3	19:Dl:201:ILE:HG12	2.01	0.43
7:D1:258:ALA:O	7:D1:261:LYS:HG2	2.18	0.43
20:D9:7:ASP:CA	7:ES:374:ASN:OD1	2.67	0.43
7:EY:175:LYS:HB2	7:EY:175:LYS:HE2	1.78	0.43
7:Ea:246:LEU:HD12	7:Ep:220:SER:HA	2.00	0.43
7:Ed:246:LEU:O	7:Ed:247:LEU:HD23	2.18	0.43
7:Ei:243:HIS:HB2	7:Ei:245:ARG:NH1	2.34	0.43
2:2:92:LEU:HD11	22:2:301:PGT:H192	2.00	0.42
2:3:243:VAL:HG21	12:x:89:LEU:HD11	2.01	0.42
6:A1:356:ASN:ND2	5:Aa:122:LEU:O	2.52	0.42
5:AQ:32:VAL:HG11	5:AQ:220:LEU:HD22	2.01	0.42
5:AR:14:ALA:HB1	5:AR:41:PHE:HE1	1.84	0.42
5:AU:253:LYS:HE2	5:B:238:GLN:HE22	1.84	0.42
5:AV:43:ASP:OD1	5:AV:43:ASP:N	2.51	0.42
5:AY:82:THR:HG22	5:AY:224:ASN:HD22	1.84	0.42
5:AZ:16:GLN:HE22	5:U:226:ASN:HD21	1.67	0.42
6:Ac:187:ASN:OD1	6:Ac:210:LYS:N	2.49	0.42
6:Ae:183:PRO:HA	6:Ae:186:TYR:CZ	2.54	0.42
6:Am:141:GLU:H	6:Am:141:GLU:HG3	1.65	0.42
6:An:401:ASP:O	6:An:405:GLU:HG2	2.19	0.42
6:An:430:GLN:CD	6:At:414:ARG:HD2	2.44	0.42
6:Ap:93:LYS:HE2	6:Ap:93:LYS:HB2	1.85	0.42
6:Ar:51:LYS:HZ2	6:Aw:62:GLN:HB3	1.83	0.42
6:Ar:130:VAL:HG22	6:Ar:347:GLY:HA2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:325:LYS:HE3	6:Ar:325:LYS:HB2	1.65	0.42
6:At:131:ASP:OD1	6:At:131:ASP:N	2.52	0.42
6:Av:172:LEU:HB3	6:Av:212:GLN:HB2	2.01	0.42
6:Ay:3:TYR:CE1	5:T:87:GLN:CG	3.02	0.42
6:Ay:369:ASP:OD1	6:Ay:370:SER:N	2.51	0.42
5:C:176:ILE:HD11	5:C:212:LEU:HB3	2.01	0.42
5:C:247:VAL:O	5:C:251:VAL:HG23	2.19	0.42
6:D:47:PHE:O	6:D:48:THR:OG1	2.36	0.42
6:I:172:LEU:HB3	6:I:212:GLN:HB2	1.99	0.42
6:N:137:VAL:HG11	6:N:140:TYR:CE2	2.54	0.42
5:Q:115:THR:HB	5:Q:192:LEU:HD23	2.01	0.42
5:S:141:ILE:HD12	5:S:172:GLY:HA3	2.01	0.42
5:V:48:ASN:HD21	5:V:51:GLN:HE21	1.67	0.42
5:W:152:VAL:HG22	5:W:158:VAL:HG13	2.00	0.42
5:a:115:THR:HB	5:a:192:LEU:HD23	2.00	0.42
8:e:41:ARG:HD3	8:e:78:LYS:HD2	2.00	0.42
2:y:204:ASP:O	7:Ep:192:PHE:CD2	2.72	0.42
2:z:187:THR:CG2	7:EY:193:VAL:CG2	2.96	0.42
2:z:203:VAL:HG11	2:z:209:VAL:HG12	1.99	0.42
17:CA:175:PRO:HB2	14:CC:80:ALA:HB2	2.00	0.42
13:A8:236:PHE:CE1	13:A8:284:GLU:HG3	2.54	0.42
17:CN:175:PRO:HB2	14:CP:80:ALA:HB2	2.00	0.42
17:CX:175:PRO:HB2	14:CZ:80:ALA:HB2	2.00	0.42
13:CY:236:PHE:CE1	13:CY:284:GLU:HG3	2.54	0.42
13:Cn:264:SER:O	13:Cn:268:GLU:HG2	2.19	0.42
14:Co:50:VAL:HG22	14:Co:53:LEU:HB2	2.01	0.42
14:Co:109:VAL:HB	14:Co:177:ILE:HG23	1.99	0.42
15:C5:134:VAL:HG21	13:C8:83:HIS:HD2	1.84	0.42
17:C7:236:SER:O	17:C7:240:ASN:ND2	2.50	0.42
18:DA:224:THR:OG1	18:DA:233:SER:HB2	2.19	0.42
13:B1:236:PHE:CE1	13:B1:284:GLU:HG3	2.54	0.42
17:BG:37:LEU:HB3	17:BG:124:LEU:HB3	2.01	0.42
13:BH:225:LYS:HE3	13:BH:225:LYS:HB2	1.92	0.42
13:BR:27:GLU:HG3	13:BR:103:LYS:HE3	2.00	0.42
17:BV:226:ARG:CD	13:Bb:369:ILE:O	2.61	0.42
17:Ba:175:PRO:HB2	14:Bc:80:ALA:HB2	2.00	0.42
18:DD:104:ILE:HD11	18:DD:128:GLU:HG3	2.01	0.42
18:DQ:130:GLU:HG3	18:DQ:159:GLN:HE21	1.84	0.42
18:DY:130:GLU:HG3	18:DY:159:GLN:HE21	1.84	0.42
19:Dd:196:MET:HE3	19:Dd:201:ILE:HG12	2.01	0.42
18:Dg:67:LYS:HE2	18:Dg:67:LYS:HB3	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dg:222:THR:HG22	18:Dg:284:VAL:HG22	2.00	0.42
18:Dg:292:GLN:OE1	18:Dg:292:GLN:N	2.48	0.42
18:Dj:104:ILE:HD11	18:Dj:128:GLU:HG3	2.01	0.42
19:Dq:169:ARG:NH1	19:Dq:207:ARG:HD2	2.34	0.42
19:Dt:196:MET:HE3	19:Dt:201:ILE:HG12	2.01	0.42
19:Du:169:ARG:NH1	19:Du:207:ARG:HD2	2.34	0.42
7:EH:450:LYS:HE2	7:EH:450:LYS:HB2	1.85	0.42
7:ES:369:LYS:HE3	7:ES:369:LYS:HB3	1.85	0.42
7:Ec:222:VAL:HG23	7:Ec:237:ILE:HB	2.01	0.42
7:Ej:193:VAL:HG12	7:Ej:195:HIS:H	1.83	0.42
7:Er:178:ARG:NH1	7:Er:207:LEU:O	2.52	0.42
7:Et:167:LEU:HA	7:Et:167:LEU:HD23	1.78	0.42
3:4:89:TYR:CE2	7:Eq:188:LYS:CB	2.90	0.42
4:8:207:ARG:HH12	4:8:210:PRO:HA	1.84	0.42
1:9:73:VAL:HG12	1:9:75:GLY:H	1.84	0.42
5:A:31:THR:HG21	5:A:191:ASN:HD21	1.84	0.42
6:A1:16:LEU:HD22	6:A1:412:ALA:HB1	2.01	0.42
6:A2:37:GLU:CG	5:P:119:GLN:NE2	2.79	0.42
6:A2:386:SER:HA	5:P:148:ILE:HG22	2.02	0.42
7:AE:343:PRO:HG3	8:c:80:TYR:CZ	2.54	0.42
7:AL:338:ALA:HB1	9:h:103:GLU:HB2	2.02	0.42
5:AQ:95:MET:O	5:AQ:118:GLY:HA3	2.19	0.42
5:AT:96:MET:HG3	5:AT:221:GLU:HB2	2.01	0.42
6:Ag:171:ASP:N	6:Ag:171:ASP:OD1	2.52	0.42
6:Ag:371:THR:H	6:Ag:374:SER:HG	1.66	0.42
6:Ai:130:VAL:HG12	6:Ai:137:VAL:HA	2.01	0.42
6:Ai:168:ALA:HA	6:Ai:303:GLN:HE21	1.84	0.42
6:Ai:304:PHE:HA	6:L:198:MET:HE1	2.01	0.42
6:Am:351:LEU:HD12	6:Am:351:LEU:HA	1.88	0.42
6:Ap:109:PHE:CE1	6:Ap:119:THR:HG22	2.54	0.42
6:Ap:372:GLN:HE21	6:Ap:372:GLN:HB3	1.62	0.42
6:As:129:GLN:HB2	6:As:143:GLN:NE2	2.34	0.42
6:Au:196:ASP:OD1	6:Au:200:GLN:N	2.42	0.42
6:G:285:MET:HB3	6:G:288:ALA:HB3	2.02	0.42
6:I:351:LEU:HD13	6:I:390:ILE:HD11	2.01	0.42
5:Q:226:ASN:ND2	5:Q:228:THR:HB	2.34	0.42
5:W:83:HIS:CE1	5:W:99:GLY:H	2.37	0.42
5:W:129:VAL:HG12	5:W:136:PRO:HA	2.01	0.42
9:l:115:TYR:CG	10:q:238:MET:HE3	2.53	0.42
2:z:110:THR:HG21	2:z:219:ILE:HD11	2.01	0.42
13:CB:264:SER:O	13:CB:268:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CI:35:ASN:HD21	14:A4:84:SER:HA	1.85	0.42
17:CN:226:ARG:CD	13:CT:369:ILE:O	2.61	0.42
13:CY:317:LYS:HE3	13:CY:317:LYS:HB3	1.90	0.42
17:Cc:175:PRO:HB2	14:Ce:80:ALA:HB2	2.00	0.42
17:Ch:226:ARG:CD	13:Cn:369:ILE:O	2.61	0.42
17:Ch:353:ALA:HB2	17:Cm:253:ILE:CG1	2.49	0.42
13:Cx:264:SER:O	13:Cx:268:GLU:HG2	2.19	0.42
13:C3:264:SER:O	13:C3:268:GLU:HG2	2.19	0.42
13:B1:83:HIS:HD2	15:Bx:134:VAL:HG21	1.84	0.42
17:B5:253:ILE:CG1	17:Bz:353:ALA:HB2	2.49	0.42
13:BC:206:VAL:HG21	14:BD:36:ALA:HA	1.99	0.42
15:BE:134:VAL:HG21	13:BH:83:HIS:HD2	1.84	0.42
13:BM:27:GLU:HG3	13:BM:103:LYS:HE3	2.00	0.42
14:BN:102:GLY:N	14:BN:105:ASP:OD2	2.48	0.42
14:BS:168:LYS:HE3	14:BS:168:LYS:HB2	1.87	0.42
13:Bg:264:SER:O	13:Bg:268:GLU:HG2	2.19	0.42
15:Bs:134:VAL:HG21	13:Bv:83:HIS:HD2	1.84	0.42
18:DD:279:ASP:OD1	18:DD:282:ARG:NH2	2.49	0.42
19:DF:196:MET:HE3	19:DF:201:ILE:HG12	2.01	0.42
18:DH:104:ILE:HD11	18:DH:128:GLU:HG3	2.01	0.42
19:DJ:196:MET:HE3	19:DJ:201:ILE:HG12	2.01	0.42
18:DP:104:ILE:HD11	18:DP:128:GLU:HG3	2.01	0.42
18:DQ:224:THR:OG1	18:DQ:233:SER:HB2	2.19	0.42
18:DQ:271:ASP:O	18:DQ:277:GLY:HA3	2.20	0.42
18:DT:216:ASP:O	18:DT:257:ARG:HB3	2.18	0.42
18:DU:267:ARG:NH2	19:DV:70:ASN:HB2	2.35	0.42
18:DU:271:ASP:O	18:DU:277:GLY:HA3	2.20	0.42
19:DW:169:ARG:NH1	19:DW:207:ARG:HD2	2.34	0.42
19:DZ:196:MET:HE3	19:DZ:201:ILE:HG12	2.01	0.42
19:Da:105:GLN:HE21	19:Da:105:GLN:HB2	1.50	0.42
19:Dd:172:TYR:HD1	19:Dd:189:ARG:NH1	2.17	0.42
18:Dg:244:LEU:HD23	18:Dg:244:LEU:HA	1.92	0.42
19:Dh:172:TYR:HD1	19:Dh:189:ARG:NH1	2.17	0.42
19:Dh:196:MET:HE3	19:Dh:201:ILE:HG12	2.01	0.42
19:Di:130:ARG:O	19:Di:133:PRO:HD2	2.17	0.42
19:Dx:196:MET:HE3	19:Dx:201:ILE:HG12	2.01	0.42
7:D1:402:ASP:OD1	7:D1:448:SER:OG	2.33	0.42
21:EA:14:GLU:CB	7:EK:306:THR:CB	2.97	0.42
7:EQ:402:ASP:OD1	7:EQ:448:SER:OG	2.33	0.42
7:EY:176:GLN:O	7:EY:208:SER:N	2.50	0.42
7:EZ:179:LYS:HD3	7:EZ:180:ALA:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ec:174:MET:HE2	7:Ec:174:MET:HB3	1.78	0.42
7:Ed:175:LYS:HB2	7:Ed:175:LYS:HE2	1.79	0.42
7:Eh:150:VAL:HG12	7:Eh:154:LEU:HD23	2.01	0.42
7:El:170:ALA:HA	7:Em:181:ARG:HH11	1.83	0.42
7:Er:206:THR:O	7:Er:206:THR:OG1	2.35	0.42
7:E1:387:GLN:HE21	7:E1:387:GLN:HB2	1.63	0.42
2:3:101:ALA:HB2	11:v:95:TYR:OH	2.19	0.42
2:3:253:MET:H	2:3:253:MET:HG2	1.69	0.42
3:4:49:LEU:H	3:4:49:LEU:HD23	1.84	0.42
3:4:80:LEU:HA	3:4:83:ARG:HG2	2.01	0.42
6:A1:209:LEU:HD22	6:A1:219:ASN:HD22	1.83	0.42
6:A1:429:LEU:HD22	5:Aa:241:TYR:CD1	2.54	0.42
5:AP:116:ARG:NH2	5:AP:221:GLU:OE2	2.42	0.42
5:AV:25:ASN:HD21	5:AV:37:SER:H	1.66	0.42
6:Ac:168:ALA:HA	6:Ac:303:GLN:HE21	1.84	0.42
6:Ae:285:MET:HB3	6:Ae:288:ALA:HB3	2.02	0.42
6:Af:130:VAL:HG22	6:Af:347:GLY:HA2	2.01	0.42
6:Ai:42:TYR:CE2	6:An:362:LYS:HD2	2.54	0.42
6:Ak:274:GLY:HA3	6:Ak:285:MET:HG3	2.01	0.42
6:Ak:401:ASP:O	6:Ak:405:GLU:HG2	2.20	0.42
6:Aq:401:ASP:O	6:Aq:405:GLU:HG2	2.19	0.42
6:Au:381:GLU:OE1	6:Au:384:LYS:HG3	2.19	0.42
6:Az:170:GLY:O	6:Az:210:LYS:NZ	2.51	0.42
6:H:172:LEU:HB3	6:H:212:GLN:HB2	2.00	0.42
5:U:8:SER:OG	5:Z:23:SER:OG	2.31	0.42
5:U:226:ASN:HD22	5:U:228:THR:H	1.65	0.42
10:m:136:SER:HB2	10:m:151:GLN:HA	2.00	0.42
10:q:76:ARG:NH1	10:q:79:ASP:OD1	2.47	0.42
22:t:202:PGT:H122	22:t:202:PGT:H32	1.78	0.42
11:u:43:ASN:ND2	23:u:201:XKP:C8	2.82	0.42
12:x:105:MET:HE2	12:x:105:MET:HB3	1.98	0.42
2:z:166:VAL:HB	2:z:170:GLU:HB2	2.00	0.42
14:A4:107:ILE:HG23	14:A4:179:VAL:HG23	2.01	0.42
14:CK:50:VAL:HG22	14:CK:53:LEU:HB2	2.01	0.42
17:C2:236:SER:O	17:C2:240:ASN:ND2	2.50	0.42
13:C8:264:SER:O	13:C8:268:GLU:HG2	2.19	0.42
13:B6:264:SER:O	13:B6:268:GLU:HG2	2.19	0.42
13:BC:241:ARG:NH1	13:BH:259:ALA:HB2	2.33	0.42
13:BH:27:GLU:HG3	13:BH:103:LYS:HE3	2.00	0.42
13:BH:97:ARG:HE	13:BH:99:LYS:HZ3	1.67	0.42
13:BR:236:PHE:CE1	13:BR:284:GLU:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bb:264:SER:O	13:Bb:268:GLU:HG2	2.19	0.42
17:Bf:175:PRO:HB2	14:Bh:80:ALA:HB2	2.00	0.42
13:Bg:27:GLU:HG3	13:Bg:103:LYS:HE3	2.00	0.42
17:Bp:37:LEU:HB3	17:Bp:124:LEU:HB3	2.01	0.42
17:Bu:37:LEU:HB3	17:Bu:124:LEU:HB3	2.01	0.42
17:Bz:37:LEU:HB3	17:Bz:124:LEU:HB3	2.00	0.42
19:DC:169:ARG:NH1	19:DC:207:ARG:HD2	2.34	0.42
19:DO:169:ARG:NH1	19:DO:207:ARG:HD2	2.34	0.42
19:DV:196:MET:HE3	19:DV:201:ILE:HG12	2.01	0.42
18:DY:271:ASP:O	18:DY:277:GLY:HA3	2.19	0.42
19:DZ:172:TYR:HD1	19:DZ:189:ARG:NH1	2.17	0.42
18:Dg:271:ASP:O	18:Dg:277:GLY:HA3	2.20	0.42
19:Dm:169:ARG:NH1	19:Dm:207:ARG:HD2	2.34	0.42
19:Dp:196:MET:HE3	19:Dp:201:ILE:HG12	2.01	0.42
19:Dy:169:ARG:NH1	19:Dy:207:ARG:HD2	2.34	0.42
20:D9:3:LEU:CB	7:ES:318:ARG:HG2	2.49	0.42
7:EL:387:GLN:HE21	7:EL:387:GLN:HB2	1.63	0.42
7:Ed:167:LEU:HA	7:Ed:167:LEU:HD23	1.75	0.42
7:Eh:174:MET:SD	7:Eh:221:ILE:HD11	2.59	0.42
7:Ei:174:MET:HB2	7:Ei:177:VAL:HB	2.01	0.42
7:Em:168:ALA:O	7:Em:172:GLU:HG2	2.19	0.42
7:Em:179:LYS:HB3	7:Em:206:THR:OG1	2.19	0.42
7:En:177:VAL:HG11	7:En:205:LEU:HD23	2.01	0.42
1:0:138:SER:HA	1:0:158:TYR:HB2	2.02	0.42
6:A1:81:LEU:O	6:A1:107:GLY:HA3	2.20	0.42
5:AQ:123:ASN:ND2	5:AQ:127:THR:HB	2.34	0.42
5:AT:90:THR:HG23	5:a:80:VAL:HG11	2.00	0.42
5:AW:48:ASN:HD21	5:AW:51:GLN:HE21	1.65	0.42
5:AZ:208:GLY:N	5:AZ:213:GLY:O	2.53	0.42
6:Ac:130:VAL:HG12	6:Ac:137:VAL:HA	2.01	0.42
6:Ad:47:PHE:O	6:Ad:48:THR:OG1	2.34	0.42
6:Al:51:LYS:HE3	6:Al:51:LYS:HB2	1.81	0.42
6:An:322:PHE:H	6:An:339:SER:H	1.67	0.42
6:Ap:238:GLY:O	6:Ap:241:GLN:NE2	2.51	0.42
6:Av:321:GLY:HA3	6:Av:338:TYR:HB3	2.00	0.42
6:Aw:69:GLU:OE1	6:Aw:82:ARG:NH2	2.53	0.42
6:D:351:LEU:HD13	6:D:390:ILE:HD11	2.01	0.42
6:H:151:PHE:CE2	6:H:344:VAL:HG21	2.53	0.42
6:L:84:SER:OG	6:L:391:ASN:ND2	2.52	0.42
6:L:172:LEU:HD22	6:L:212:GLN:HA	2.01	0.42
6:N:340:ASN:OD1	6:N:340:ASN:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:57:SER:OG	5:R:58:GLN:N	2.52	0.42
5:S:129:VAL:HG12	5:S:136:PRO:HA	2.01	0.42
5:T:257:PHE:CE2	5:T:261:GLN:HG3	2.54	0.42
9:k:39:LYS:HD2	9:k:39:LYS:HA	1.85	0.42
10:n:40:GLN:HE21	10:n:60:GLU:CD	2.27	0.42
10:n:200:GLN:NE2	10:n:201:THR:O	2.53	0.42
10:o:92:ASP:OD1	10:o:92:ASP:N	2.46	0.42
10:p:87:TRP:HB3	10:p:99:LEU:HB3	2.01	0.42
11:r:33:PHE:HE1	2:z:154:ASN:HB2	1.84	0.42
11:r:71:MET:HA	11:r:74:ARG:HG2	2.02	0.42
13:B7:83:HIS:HD2	15:CD:134:VAL:HG21	1.83	0.42
14:B8:256:ASN:O	14:Bw:127:LYS:NZ	2.40	0.42
18:CG:104:ILE:HD11	18:CG:128:GLU:HG3	2.01	0.42
13:CJ:236:PHE:CE1	13:CJ:284:GLU:HG3	2.54	0.42
13:CT:362:ASN:HD22	18:DI:89:ILE:CD1	2.15	0.42
13:CY:206:VAL:HG21	14:CZ:36:ALA:HA	1.98	0.42
13:Cd:97:ARG:HE	13:Cd:99:LYS:HZ3	1.66	0.42
13:Ci:269:MET:HE3	13:Ci:269:MET:HB3	1.96	0.42
17:Cm:180:ARG:HH22	13:Cs:188:ASP:CG	2.13	0.42
17:Cw:236:SER:O	17:Cw:240:ASN:ND2	2.50	0.42
17:C7:35:ASN:HD21	14:C9:84:SER:HA	1.85	0.42
18:DA:58:ALA:HB1	18:DA:72:PHE:HE1	1.85	0.42
18:DA:267:ARG:NH2	19:DB:70:ASN:HB2	2.35	0.42
13:B1:334:ARG:HD3	13:B6:353:GLU:CG	2.43	0.42
15:B3:134:VAL:HG21	13:B6:83:HIS:HD2	1.83	0.42
17:BB:357:GLU:OE1	17:BG:21:ALA:HB2	2.20	0.42
14:BD:107:ILE:HG23	14:BD:179:VAL:HG23	2.01	0.42
13:BW:27:GLU:HG3	13:BW:103:LYS:HE3	2.00	0.42
13:Bb:225:LYS:HE3	13:Bb:225:LYS:HB2	1.92	0.42
17:Bf:263:VAL:HG11	17:Bf:325:THR:HG21	2.02	0.42
14:Bw:168:LYS:HE3	14:Bw:168:LYS:HB2	1.87	0.42
19:DC:208:ASP:O	18:DE:293:VAL:HB	2.20	0.42
18:DE:58:ALA:HB1	18:DE:72:PHE:HE1	1.85	0.42
18:DE:130:GLU:HG3	18:DE:159:GLN:HE21	1.84	0.42
18:DM:271:ASP:O	18:DM:277:GLY:HA3	2.20	0.42
18:DP:187:TYR:HE2	18:DP:284:VAL:HG23	1.85	0.42
18:DP:290:ARG:NH1	19:DR:207:ARG:O	2.52	0.42
19:DR:196:MET:HE3	19:DR:201:ILE:HG12	2.01	0.42
18:DT:104:ILE:HD11	18:DT:128:GLU:HG3	2.01	0.42
18:DT:290:ARG:NH1	19:DV:207:ARG:O	2.52	0.42
18:Ds:58:ALA:HB1	18:Ds:72:PHE:HE1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dv:279:ASP:OD1	18:Dv:282:ARG:NH2	2.50	0.42
18:Dw:224:THR:OG1	18:Dw:233:SER:HB2	2.19	0.42
18:Dw:267:ARG:NH2	19:Dx:70:ASN:HB2	2.35	0.42
7:EM:450:LYS:HE2	7:EM:450:LYS:HB2	1.85	0.42
7:EV:369:LYS:HE3	7:EV:369:LYS:HB3	1.85	0.42
7:EX:153:ARG:O	7:EX:157:GLU:HG2	2.20	0.42
7:Ea:226:ALA:HA	7:Ea:232:MET:SD	2.59	0.42
7:El:167:LEU:O	7:El:171:ILE:HG12	2.19	0.42
7:Eo:172:GLU:OE2	7:Eo:179:LYS:HA	2.19	0.42
2:3:88:GLN:OE1	2:3:161:TYR:OH	2.29	0.42
5:A:50:ASN:ND2	5:A:63:PRO:O	2.32	0.42
6:A3:35:ARG:CZ	5:Q:119:GLN:HE21	2.32	0.42
6:A3:414:ARG:HD2	6:Aw:430:GLN:CD	2.45	0.42
5:AQ:50:ASN:ND2	5:AQ:63:PRO:O	2.36	0.42
5:AV:206:VAL:HB	5:AV:209:LEU:HD12	2.01	0.42
5:AY:7:VAL:HG13	5:AY:71:GLY:HA2	2.01	0.42
5:AZ:123:ASN:H	5:AZ:123:ASN:HD22	1.66	0.42
6:Ac:151:PHE:CE2	6:Ac:344:VAL:HG21	2.54	0.42
6:Ae:101:ASN:OD1	6:Ae:377:LYS:NZ	2.53	0.42
6:Ae:362:LYS:HD2	6:N:42:TYR:CE2	2.55	0.42
6:Af:329:ASP:OD2	6:Af:333:SER:HB2	2.18	0.42
6:Ah:109:PHE:CE1	6:Ah:119:THR:HG22	2.52	0.42
6:Ah:323:LEU:HD13	6:F:46:LEU:HD11	2.02	0.42
6:Ak:168:ALA:O	6:Ak:210:LYS:NZ	2.49	0.42
6:Ak:184:ASP:OD1	6:Ak:184:ASP:N	2.49	0.42
6:Am:105:ARG:NH1	6:Am:396:GLU:OE1	2.53	0.42
6:An:16:LEU:HD13	6:An:16:LEU:HA	1.87	0.42
6:As:49:ASN:HB3	6:As:50:ALA:H	1.66	0.42
6:As:105:ARG:HD2	6:As:396:GLU:OE2	2.19	0.42
6:Av:49:ASN:O	6:Av:50:ALA:CB	2.68	0.42
6:Ax:101:ASN:OD1	6:Ax:377:LYS:NZ	2.53	0.42
6:Ay:164:VAL:HG12	6:Ay:310:LEU:HA	2.01	0.42
6:D:333:SER:OG	6:D:348:ARG:NH2	2.52	0.42
5:R:148:ILE:HG21	5:R:163:ARG:HG2	2.02	0.42
5:T:52:PRO:HB3	5:T:65:GLY:H	1.83	0.42
9:l:22:ASN:ND2	10:q:54:ARG:HE	2.17	0.42
2:y:167:THR:HG22	2:y:169:ARG:H	1.84	0.42
15:B9:134:VAL:HG21	13:CB:83:HIS:HD2	1.83	0.42
17:CI:21:ALA:HB2	17:C7:357:GLU:OE1	2.20	0.42
17:CI:357:GLU:OE1	17:A7:21:ALA:HB2	2.20	0.42
13:CJ:264:SER:O	13:CJ:268:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A7:35:ASN:HD21	14:A9:84:SER:HA	1.85	0.42
17:A7:357:GLU:OE1	17:BB:21:ALA:HB2	2.20	0.42
13:CO:334:ARG:HD3	13:CT:353:GLU:CG	2.43	0.42
14:CP:41:LYS:HE2	14:CP:41:LYS:HB3	1.91	0.42
13:CT:334:ARG:HD3	13:CY:353:GLU:CG	2.43	0.42
17:CX:37:LEU:HB3	17:CX:124:LEU:HB3	2.01	0.42
13:Ci:205:THR:OG1	14:Cj:32:THR:HG22	2.18	0.42
17:Cm:236:SER:O	17:Cm:240:ASN:ND2	2.50	0.42
17:Cr:236:SER:O	17:Cr:240:ASN:ND2	2.50	0.42
13:Cs:236:PHE:CE1	13:Cs:284:GLU:HG3	2.54	0.42
14:Ct:50:VAL:HG22	14:Ct:53:LEU:HB2	2.01	0.42
14:Ct:168:LYS:HE3	14:Ct:168:LYS:HB2	1.86	0.42
17:C2:35:ASN:HD21	14:C4:84:SER:HA	1.85	0.42
18:DA:130:GLU:HG3	18:DA:159:GLN:HE21	1.84	0.42
18:DA:293:VAL:HB	19:Dy:208:ASP:O	2.20	0.42
17:BG:353:ALA:HB2	17:BL:253:ILE:CG1	2.49	0.42
17:BL:37:LEU:HB3	17:BL:124:LEU:HB3	2.01	0.42
17:BV:263:VAL:HG11	17:BV:325:THR:HG21	2.02	0.42
13:BW:282:GLU:O	13:BW:286:SER:OG	2.31	0.42
17:Ba:263:VAL:HG11	17:Ba:325:THR:HG21	2.02	0.42
17:Bf:37:LEU:HB3	17:Bf:124:LEU:HB3	2.01	0.42
17:Bp:175:PRO:HB2	14:Br:80:ALA:HB2	2.00	0.42
13:Bv:236:PHE:CE1	13:Bv:284:GLU:HG3	2.54	0.42
19:DK:208:ASP:O	18:DM:293:VAL:HB	2.20	0.42
18:DL:187:TYR:HE2	18:DL:284:VAL:HG23	1.85	0.42
18:DL:290:ARG:NH1	19:DN:207:ARG:O	2.52	0.42
19:DO:208:ASP:O	18:DQ:293:VAL:HB	2.20	0.42
18:DQ:222:THR:HG22	18:DQ:284:VAL:HG22	2.00	0.42
18:DU:224:THR:OG1	18:DU:233:SER:HB2	2.19	0.42
18:DY:292:GLN:OE1	18:DY:292:GLN:N	2.48	0.42
18:Dc:267:ARG:NH2	19:Dd:70:ASN:HB2	2.35	0.42
18:Dk:130:GLU:HG3	18:Dk:159:GLN:HE21	1.84	0.42
18:Do:267:ARG:NH2	19:Dp:70:ASN:HB2	2.35	0.42
18:Ds:184:ILE:HG21	19:Dt:141:MET:HE2	2.01	0.42
18:Ds:267:ARG:NH2	19:Dt:70:ASN:HB2	2.35	0.42
18:Dv:58:ALA:HB1	18:Dv:72:PHE:CE1	2.53	0.42
7:EI:450:LYS:HE2	7:EI:450:LYS:HB2	1.85	0.42
7:El:176:GLN:OE1	7:El:176:GLN:N	2.39	0.42
7:Ep:157:GLU:HG3	7:Eq:159:LEU:HD22	2.02	0.42
7:Eq:246:LEU:HD23	7:Eq:248:SER:H	1.84	0.42
3:5:15:TRP:HE3	3:7:63:MET:HE1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:254:MET:SD	10:n:222:GLN:HG2	2.59	0.42
6:A2:156:GLN:HB2	6:A2:292:GLN:NE2	2.35	0.42
6:A2:276:PRO:HA	6:A2:282:PRO:HG3	2.02	0.42
7:AF:342:GLN:O	7:AF:343:PRO:C	2.61	0.42
7:AO:333:ALA:HB3	7:AO:356:MET:HB3	2.02	0.42
5:AP:21:THR:HG21	5:AP:39:ALA:HB2	2.00	0.42
5:AY:161:ARG:NH2	6:As:371:THR:HG22	2.34	0.42
5:AY:169:GLN:HE21	5:AY:169:GLN:HB3	1.50	0.42
6:Ab:105:ARG:HD2	6:Ab:396:GLU:OE2	2.20	0.42
6:Ac:47:PHE:O	6:Ac:48:THR:OG1	2.33	0.42
6:Ak:16:LEU:HD22	6:Ak:412:ALA:HB1	2.00	0.42
6:Ak:62:GLN:HE21	6:Ak:62:GLN:HB2	1.63	0.42
6:Ak:151:PHE:CE2	6:Ak:344:VAL:HG21	2.54	0.42
6:Am:231:LYS:HB3	6:Am:281:THR:HB	2.01	0.42
6:An:433:ILE:HD13	6:Ay:403:THR:HG23	2.01	0.42
6:Aw:25:ASN:O	6:Aw:398:SER:OG	2.35	0.42
6:Aw:125:LEU:O	6:Aw:144:PRO:HA	2.19	0.42
6:Ay:402:MET:O	6:Ay:406:LEU:HD23	2.20	0.42
6:Az:188:ARG:HG3	6:Az:308:PHE:CG	2.55	0.42
5:S:184:GLY:O	5:S:196:THR:OG1	2.32	0.42
5:X:148:ILE:HG21	5:X:163:ARG:HG2	2.02	0.42
5:a:163:ARG:HA	5:a:163:ARG:HD3	1.91	0.42
5:a:185:LEU:HB3	5:a:193:TYR:HB3	2.01	0.42
8:d:50:GLN:OE1	7:EJ:368:ARG:NH2	2.52	0.42
18:CG:279:ASP:OD1	18:CG:282:ARG:NH2	2.50	0.42
14:A9:50:VAL:HG22	14:A9:53:LEU:HB2	2.01	0.42
15:CL:134:VAL:HG21	13:CO:83:HIS:HD2	1.84	0.42
17:CN:37:LEU:HB3	17:CN:124:LEU:HB3	2.00	0.42
13:CO:236:PHE:CE1	13:CO:284:GLU:HG3	2.54	0.42
15:CQ:134:VAL:HG21	13:CT:83:HIS:HD2	1.84	0.42
17:CX:236:SER:O	17:CX:240:ASN:ND2	2.50	0.42
13:CY:334:ARG:HD3	13:Cd:353:GLU:CG	2.43	0.42
17:Cc:236:SER:O	17:Cc:240:ASN:ND2	2.50	0.42
17:Cc:353:ALA:HB2	17:Ch:253:ILE:CG1	2.49	0.42
13:Cd:236:PHE:CE1	13:Cd:284:GLU:HG3	2.54	0.42
14:Cj:115:THR:HA	14:Co:174:SER:O	2.20	0.42
13:Cn:236:PHE:CE1	13:Cn:284:GLU:HG3	2.54	0.42
15:Cz:134:VAL:HG21	13:C3:83:HIS:HD2	1.84	0.42
17:C2:226:ARG:CD	13:C8:369:ILE:O	2.61	0.42
17:C7:64:LEU:HD23	17:C7:64:LEU:HA	1.89	0.42
17:BB:353:ALA:HB2	17:BG:253:ILE:CG1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BL:353:ALA:HB2	17:BQ:253:ILE:CG1	2.49	0.42
17:BQ:357:GLU:OE1	17:BV:21:ALA:HB2	2.20	0.42
14:BS:102:GLY:N	14:BS:105:ASP:OD2	2.48	0.42
13:BW:236:PHE:CE1	13:BW:284:GLU:HG3	2.54	0.42
13:BW:264:SER:O	13:BW:268:GLU:HG2	2.19	0.42
17:Ba:37:LEU:HB3	17:Ba:124:LEU:HB3	2.00	0.42
13:Bb:27:GLU:HG3	13:Bb:103:LYS:HE3	2.00	0.42
13:Bg:236:PHE:CE1	13:Bg:284:GLU:HG3	2.54	0.42
15:Bn:134:VAL:HG21	13:Bq:83:HIS:HD2	1.84	0.42
13:Bq:264:SER:O	13:Bq:268:GLU:HG2	2.19	0.42
13:Bv:264:SER:O	13:Bv:268:GLU:HG2	2.19	0.42
19:DB:172:TYR:HD1	19:DB:189:ARG:NH1	2.17	0.42
19:DB:205:LYS:O	19:DB:207:ARG:NH1	2.49	0.42
19:DC:144:LEU:HD11	19:DC:185:ILE:HD11	2.01	0.42
19:DG:144:LEU:HD11	19:DG:185:ILE:HD11	2.01	0.42
18:DI:271:ASP:O	18:DI:277:GLY:HA3	2.19	0.42
18:DM:222:THR:HG22	18:DM:284:VAL:HG22	2.00	0.42
19:DN:196:MET:HE3	19:DN:201:ILE:HG12	2.01	0.42
18:DQ:200:LYS:O	18:DQ:203:SER:OG	2.30	0.42
18:DU:130:GLU:HG3	18:DU:159:GLN:HE21	1.84	0.42
19:DV:172:TYR:HD1	19:DV:189:ARG:NH1	2.17	0.42
18:Dc:271:ASP:O	18:Dc:277:GLY:HA3	2.19	0.42
18:Dg:58:ALA:HB1	18:Dg:72:PHE:HE1	1.85	0.42
18:Dk:267:ARG:NH2	19:Dl:70:ASN:HB2	2.35	0.42
19:Dl:172:TYR:HD1	19:Dl:189:ARG:NH1	2.17	0.42
18:Dn:104:ILE:HD11	18:Dn:128:GLU:HG3	2.01	0.42
18:Do:130:GLU:HG3	18:Do:159:GLN:HE21	1.84	0.42
19:Dq:144:LEU:HD11	19:Dq:185:ILE:HD11	2.01	0.42
19:Du:144:LEU:HD11	19:Du:185:ILE:HD11	2.01	0.42
19:Du:208:ASP:O	18:Dw:293:VAL:HB	2.20	0.42
18:Dw:58:ALA:HB1	18:Dw:72:PHE:HE1	1.85	0.42
18:Dw:67:LYS:HE2	18:Dw:67:LYS:HB3	1.76	0.42
7:EY:164:GLU:HG2	7:EY:184:LEU:HD13	2.00	0.42
7:Ea:201:ALA:HB2	7:Ea:232:MET:HE1	2.02	0.42
7:Ed:236:ARG:HD3	7:Ed:250:GLY:HA3	2.01	0.42
7:Ef:174:MET:HE2	7:Ef:174:MET:HB3	1.78	0.42
7:Ef:207:LEU:HD21	7:Ef:213:LEU:HD11	2.02	0.42
7:Ej:224:MET:HA	7:Ek:238:THR:HG21	2.01	0.42
7:Em:175:LYS:HE2	7:Em:175:LYS:HB2	1.89	0.42
7:Eq:146:MET:HG2	7:Eq:155:GLU:OE1	2.20	0.42
7:Er:189:HIS:O	7:Er:196:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Er:229:VAL:HB	7:Er:232:MET:SD	2.59	0.42
7:AK:337:GLY:O	7:AK:341:ASN:ND2	2.53	0.42
5:AU:90:THR:HG23	5:R:80:VAL:HG11	2.01	0.42
5:AU:166:GLN:O	5:AU:167:ASP:HB2	2.19	0.42
6:Ae:360:LEU:HB3	6:Ae:368:TRP:HB3	2.01	0.42
6:Af:381:GLU:OE1	6:Af:384:LYS:HG3	2.20	0.42
6:Aj:209:LEU:HD22	6:Aj:219:ASN:HD22	1.85	0.42
6:At:129:GLN:HB2	6:At:143:GLN:NE2	2.34	0.42
6:Av:49:ASN:ND2	5:V:218:SER:OG	2.53	0.42
6:Av:109:PHE:HE1	6:Av:119:THR:HG22	1.85	0.42
6:Ay:329:ASP:OD2	6:Ay:333:SER:HB2	2.19	0.42
6:Az:196:ASP:OD1	6:Az:200:GLN:N	2.42	0.42
6:H:153:LYS:HA	6:H:153:LYS:HD3	1.87	0.42
6:I:129:GLN:HB2	6:I:143:GLN:NE2	2.35	0.42
6:M:153:LYS:HD3	6:M:153:LYS:HA	1.86	0.42
6:O:172:LEU:HB3	6:O:212:GLN:HB2	2.02	0.42
5:P:152:VAL:H	5:P:217:GLN:NE2	2.17	0.42
5:R:82:THR:HG22	5:R:224:ASN:HD22	1.85	0.42
5:Z:91:ASN:HD22	5:Z:92:ALA:N	2.17	0.42
9:h:115:TYR:CG	10:o:238:MET:HE3	2.55	0.42
9:k:22:ASN:ND2	10:p:54:ARG:HE	2.14	0.42
10:n:65:ASN:O	10:n:208:ASN:ND2	2.51	0.42
13:B7:334:ARG:HD3	13:CO:353:GLU:CG	2.43	0.42
17:CA:37:LEU:HB3	17:CA:124:LEU:HB3	2.01	0.42
14:CC:107:ILE:HG23	14:CC:179:VAL:HG23	2.01	0.42
17:CF:175:PRO:HB2	14:CK:80:ALA:HB2	2.00	0.42
14:A4:50:VAL:HG22	14:A4:53:LEU:HB2	2.01	0.42
17:CN:236:SER:O	17:CN:240:ASN:ND2	2.50	0.42
17:CS:37:LEU:HB3	17:CS:124:LEU:HB3	2.01	0.42
17:CS:236:SER:O	17:CS:240:ASN:ND2	2.50	0.42
15:CV:134:VAL:HG21	13:CY:83:HIS:HD2	1.84	0.42
15:Ca:134:VAL:HG21	13:Cd:83:HIS:HD2	1.84	0.42
17:Ch:236:SER:O	17:Ch:240:ASN:ND2	2.50	0.42
15:Ck:134:VAL:HG21	13:Cn:83:HIS:HD2	1.84	0.42
14:Co:107:ILE:HG23	14:Co:179:VAL:HG23	2.01	0.42
15:Cp:134:VAL:HG21	13:Cs:83:HIS:HD2	1.84	0.42
14:Ct:107:ILE:HG23	14:Ct:179:VAL:HG23	2.01	0.42
15:Cu:134:VAL:HG21	13:Cx:83:HIS:HD2	1.84	0.42
17:Cw:35:ASN:HD21	14:Cy:84:SER:HA	1.84	0.42
14:C4:107:ILE:HG23	14:C4:179:VAL:HG23	2.01	0.42
14:C4:115:THR:HA	14:C9:174:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B5:37:LEU:HB3	17:B5:124:LEU:HB3	2.00	0.42
17:BB:35:ASN:HD21	14:BD:84:SER:HA	1.85	0.42
13:BC:264:SER:O	13:BC:268:GLU:HG2	2.19	0.42
14:BD:50:VAL:HG22	14:BD:53:LEU:HB2	2.01	0.42
17:BQ:353:ALA:HB2	17:BV:253:ILE:CG1	2.49	0.42
15:BT:134:VAL:HG21	13:BW:83:HIS:HD2	1.83	0.42
13:BW:269:MET:HE3	13:BW:269:MET:HB3	1.96	0.42
14:Bc:107:ILE:HG23	14:Bc:179:VAL:HG23	2.01	0.42
14:Bc:115:THR:HA	14:Bh:174:SER:O	2.20	0.42
17:Bk:37:LEU:HB3	17:Bk:124:LEU:HB3	2.01	0.42
17:Bk:175:PRO:HB2	14:Bm:80:ALA:HB2	2.00	0.42
17:Bk:226:ARG:CD	13:Bq:369:ILE:O	2.61	0.42
17:Bk:263:VAL:HG11	17:Bk:325:THR:HG21	2.02	0.42
18:DE:267:ARG:NH2	19:DF:70:ASN:HB2	2.35	0.42
19:DR:157:ASP:OD1	19:DR:195:ARG:NH1	2.52	0.42
18:DU:184:ILE:HG21	19:DV:141:MET:HE2	2.01	0.42
19:DW:208:ASP:O	18:DY:293:VAL:HB	2.20	0.42
18:Db:104:ILE:HD11	18:Db:128:GLU:HG3	2.01	0.42
18:Dc:58:ALA:HB1	18:Dc:72:PHE:HE1	1.85	0.42
18:Dc:222:THR:HG22	18:Dc:284:VAL:HG22	2.00	0.42
18:Df:256:ASP:OD1	18:Df:256:ASP:N	2.46	0.42
18:Dg:247:TYR:O	18:Dg:250:SER:OG	2.25	0.42
19:Dq:208:ASP:O	18:Ds:293:VAL:HB	2.20	0.42
18:Ds:224:THR:OG1	18:Ds:233:SER:HB2	2.19	0.42
18:Dw:184:ILE:HG21	19:Dx:141:MET:HE2	2.01	0.42
7:ER:450:LYS:HE2	7:ER:450:LYS:HB2	1.85	0.42
7:Eb:147:GLY:O	7:Eb:150:VAL:HG22	2.20	0.42
7:Eb:172:GLU:OE2	7:Eb:179:LYS:HA	2.19	0.42
7:Eb:229:VAL:HB	7:Eb:232:MET:SD	2.59	0.42
7:Eg:174:MET:SD	7:Eg:221:ILE:HD11	2.59	0.42
7:Eh:241:ASP:OD1	7:Eh:245:ARG:HG2	2.20	0.42
7:Ei:210:GLY:O	7:Ei:211:THR:OG1	2.30	0.42
7:Ep:222:VAL:HG23	7:Ep:237:ILE:HB	2.01	0.42
7:Er:240:THR:HG21	7:Es:224:MET:HE2	2.02	0.42
7:Et:210:GLY:O	7:Et:211:THR:OG1	2.28	0.42
2:3:255:MET:HE3	4:8:214:ILE:HG12	2.01	0.42
3:6:70:THR:O	3:6:71:GLN:C	2.63	0.42
6:A1:156:GLN:HB2	6:A1:292:GLN:NE2	2.35	0.42
5:AP:246:LYS:HE2	5:AP:246:LYS:HB3	1.93	0.42
5:AZ:1:MET:HE2	5:AZ:5:LEU:HD22	2.01	0.42
5:AZ:129:VAL:HG12	5:AZ:136:PRO:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ae:183:PRO:HA	6:Ae:186:TYR:CE2	2.55	0.42
6:Af:62:GLN:HE21	6:Af:62:GLN:HB2	1.65	0.42
6:Af:433:ILE:HD11	6:Ak:416:PHE:HZ	1.85	0.42
6:An:137:VAL:HG11	6:An:140:TYR:CE2	2.54	0.42
6:Ao:184:ASP:OD1	6:Ao:184:ASP:N	2.50	0.42
6:Ao:276:PRO:HA	6:Ao:282:PRO:HG3	2.00	0.42
6:Ap:184:ASP:N	6:Ap:184:ASP:OD1	2.52	0.42
6:Aq:46:LEU:CD1	5:P:150:ILE:HG13	2.50	0.42
6:Ar:285:MET:HB3	6:Ar:288:ALA:HB3	2.02	0.42
6:As:42:TYR:CD2	6:As:55:GLY:HA2	2.54	0.42
6:Aw:16:LEU:HD13	6:Aw:16:LEU:HA	1.83	0.42
6:Ay:84:SER:OG	6:Ay:391:ASN:ND2	2.53	0.42
6:Ay:434:LEU:HD11	5:T:231:LEU:HD11	2.02	0.42
5:B:41:PHE:HB2	10:o:31:THR:HA	2.02	0.42
6:H:433:ILE:HD11	6:M:416:PHE:HZ	1.85	0.42
6:J:401:ASP:O	6:J:405:GLU:HG2	2.19	0.42
6:K:99:GLN:H	6:K:99:GLN:HG2	1.62	0.42
6:L:223:THR:HG22	6:L:232:PRO:HA	2.02	0.42
6:N:171:ASP:OD1	6:N:171:ASP:N	2.52	0.42
6:O:137:VAL:HG11	6:O:140:TYR:CE2	2.55	0.42
5:V:43:ASP:OD1	5:V:43:ASP:N	2.42	0.42
5:Z:161:ARG:HH11	5:Z:168:ASN:ND2	2.17	0.42
9:g:127:GLN:O	9:g:131:ARG:HG2	2.20	0.42
14:B8:174:SER:O	14:B2:115:THR:HA	2.20	0.42
17:CA:236:SER:O	17:CA:240:ASN:ND2	2.50	0.42
13:CB:236:PHE:CE1	13:CB:284:GLU:HG3	2.54	0.42
14:CC:50:VAL:HG22	14:CC:53:LEU:HB2	2.01	0.42
17:CF:236:SER:O	17:CF:240:ASN:ND2	2.50	0.42
17:CI:253:ILE:CG1	17:C7:353:ALA:HB2	2.49	0.42
17:A7:263:VAL:HG11	17:A7:325:THR:HG21	2.02	0.42
17:A7:353:ALA:HB2	17:BB:253:ILE:CG1	2.49	0.42
14:CU:115:THR:HA	14:CZ:174:SER:O	2.20	0.42
15:Cf:134:VAL:HG21	13:Ci:83:HIS:HD2	1.84	0.42
17:Cw:78:LYS:HE3	17:Cw:78:LYS:HB2	1.87	0.42
17:Cw:211:MET:HE2	17:Cw:223:ARG:HB2	2.02	0.42
13:Cx:236:PHE:CE1	13:Cx:284:GLU:HG3	2.54	0.42
13:C8:157:LEU:O	13:C8:161:SER:OG	2.27	0.42
17:B5:236:SER:O	17:B5:240:ASN:ND2	2.50	0.42
17:BB:226:ARG:CD	13:BH:369:ILE:O	2.61	0.42
13:BC:97:ARG:HE	13:BC:99:LYS:HZ3	1.67	0.42
14:BI:50:VAL:HG22	14:BI:53:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BJ:134:VAL:HG21	13:BM:83:HIS:HD2	1.84	0.42
17:BL:211:MET:HE2	17:BL:223:ARG:HB2	2.02	0.42
14:BN:50:VAL:HG22	14:BN:53:LEU:HB2	2.01	0.42
14:BN:107:ILE:HG23	14:BN:179:VAL:HG23	2.01	0.42
15:BO:134:VAL:HG21	13:BR:83:HIS:HD2	1.83	0.42
17:BQ:37:LEU:HB3	17:BQ:124:LEU:HB3	2.01	0.42
17:BV:37:LEU:HB3	17:BV:124:LEU:HB3	2.01	0.42
17:BV:211:MET:HE2	17:BV:223:ARG:HB2	2.02	0.42
13:BW:206:VAL:HG21	14:BX:36:ALA:HA	1.99	0.42
14:BX:115:THR:HA	14:Bc:174:SER:O	2.20	0.42
15:BY:134:VAL:HG21	13:Bb:83:HIS:HD2	1.84	0.42
15:Bd:134:VAL:HG21	13:Bg:83:HIS:HD2	1.83	0.42
17:Bf:211:MET:HE2	17:Bf:223:ARG:HB2	2.02	0.42
14:Bh:115:THR:HA	14:Bm:174:SER:O	2.20	0.42
18:DE:271:ASP:O	18:DE:277:GLY:HA3	2.19	0.42
19:DF:172:TYR:HD1	19:DF:189:ARG:NH1	2.17	0.42
18:DL:58:ALA:HB1	18:DL:72:PHE:CE1	2.53	0.42
19:DN:157:ASP:OD1	19:DN:195:ARG:NH1	2.52	0.42
19:DS:169:ARG:NH1	19:DS:207:ARG:HD2	2.34	0.42
19:DV:157:ASP:OD1	19:DV:195:ARG:NH1	2.52	0.42
18:DY:224:THR:OG1	18:DY:233:SER:HB2	2.19	0.42
18:Dk:58:ALA:HB1	18:Dk:72:PHE:HE1	1.85	0.42
18:Do:184:ILE:HG21	19:Dp:141:MET:HE2	2.01	0.42
18:Dr:290:ARG:NH1	19:Dt:207:ARG:O	2.52	0.42
7:D3:402:ASP:OD1	7:D3:448:SER:OG	2.33	0.42
7:EL:450:LYS:HE2	7:EL:450:LYS:HB2	1.85	0.42
7:ET:369:LYS:HB3	7:ET:369:LYS:HE3	1.85	0.42
7:En:186:LEU:HD23	7:En:199:ALA:HA	2.01	0.42
7:Eq:165:ARG:NH2	7:Er:139:ASP:OD2	2.52	0.42
7:Er:174:MET:HB3	7:Er:174:MET:HE2	1.78	0.42
7:Eu:302:ALA:HB3	7:Ev:385:ARG:HB3	2.02	0.42
2:2:92:LEU:HD11	22:2:301:PGT:H171	2.02	0.42
2:2:274:ASP:OD2	2:2:277:ASN:ND2	2.52	0.42
2:3:280:LEU:HD11	4:8:175:GLY:HA2	2.02	0.42
6:A1:358:GLN:HE21	6:Ap:47:PHE:HE2	1.67	0.42
6:A2:231:LYS:HB3	6:A2:281:THR:HB	2.02	0.42
5:AR:98:GLU:OE1	5:X:45:PHE:HB3	2.20	0.42
5:AR:181:ASN:OD1	5:AR:184:GLY:N	2.53	0.42
5:AS:23:SER:HB3	5:AW:247:VAL:HG11	2.02	0.42
5:AS:106:THR:OG1	5:AS:138:GLU:OE2	2.38	0.42
5:AT:41:PHE:HB2	5:C:31:THR:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AX:155:ASP:C	5:AX:207:PRO:HG2	2.45	0.42
6:Ag:172:LEU:HB3	6:Ag:212:GLN:HB2	2.02	0.42
6:Al:218:TRP:NE1	6:Al:303:GLN:OE1	2.47	0.42
6:Ao:77:ASN:HD21	6:Ao:79:MET:HB2	1.85	0.42
6:Ap:105:ARG:HD2	6:Ap:396:GLU:OE2	2.20	0.42
6:Ar:130:VAL:HG12	6:Ar:137:VAL:HA	2.01	0.42
6:Ar:136:GLU:H	6:Ar:136:GLU:HG2	1.69	0.42
6:Ax:329:ASP:OD2	6:Ax:333:SER:HB2	2.20	0.42
5:C:18:ASN:HB2	5:C:41:PHE:HZ	1.84	0.42
6:K:109:PHE:HE1	6:K:119:THR:HG22	1.85	0.42
5:P:226:ASN:ND2	5:P:228:THR:HB	2.34	0.42
5:Q:18:ASN:HD22	5:Q:39:ALA:CB	2.32	0.42
5:Y:91:ASN:HD22	5:Y:92:ALA:N	2.17	0.42
9:k:119:VAL:HG13	10:p:245:LEU:HG	2.00	0.42
10:n:35:ARG:NH1	10:n:101:ARG:HD3	2.34	0.42
2:z:183:MET:HB2	2:z:214:LEU:HD21	2.02	0.42
14:B8:115:THR:HA	14:CC:174:SER:O	2.20	0.42
17:CF:37:LEU:HB3	17:CF:124:LEU:HB3	2.01	0.42
17:CI:263:VAL:HG11	17:CI:325:THR:HG21	2.02	0.42
14:CP:107:ILE:HG23	14:CP:179:VAL:HG23	2.01	0.42
14:CP:115:THR:HA	14:CU:174:SER:O	2.20	0.42
17:Cm:211:MET:HE2	17:Cm:223:ARG:HB2	2.02	0.42
13:Cn:317:LYS:HE3	13:Cn:317:LYS:HB3	1.90	0.42
14:Co:115:THR:HA	14:Ct:174:SER:O	2.20	0.42
17:C2:357:GLU:OE1	17:C7:21:ALA:HB2	2.20	0.42
17:C7:211:MET:HE2	17:C7:223:ARG:HB2	2.02	0.42
13:C8:236:PHE:CE1	13:C8:284:GLU:HG3	2.54	0.42
18:DA:247:TYR:O	18:DA:250:SER:OG	2.25	0.42
18:DA:271:ASP:O	18:DA:277:GLY:HA3	2.20	0.42
14:B2:107:ILE:HG23	14:B2:179:VAL:HG23	2.01	0.42
13:BC:225:LYS:HE3	13:BC:225:LYS:HB2	1.92	0.42
14:BN:115:THR:HA	14:BS:174:SER:O	2.20	0.42
17:BQ:263:VAL:HG11	17:BQ:325:THR:HG21	2.02	0.42
13:BR:264:SER:O	13:BR:268:GLU:HG2	2.19	0.42
17:BV:353:ALA:HB2	17:Ba:253:ILE:CG1	2.49	0.42
14:BX:107:ILE:HG23	14:BX:179:VAL:HG23	2.01	0.42
17:Ba:226:ARG:CD	13:Bg:369:ILE:O	2.61	0.42
15:Bi:134:VAL:HG21	13:Bl:83:HIS:HD2	1.83	0.42
17:Bz:236:SER:O	17:Bz:240:ASN:ND2	2.50	0.42
18:DD:187:TYR:HE2	18:DD:284:VAL:HG23	1.85	0.42
18:DQ:184:ILE:HG21	19:DR:141:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DT:187:TYR:HE2	18:DT:284:VAL:HG23	1.85	0.42
18:DY:184:ILE:HG21	19:DZ:141:MET:HE2	2.02	0.42
18:DY:222:THR:HG22	18:DY:284:VAL:HG22	2.00	0.42
19:Da:169:ARG:NH1	19:Da:207:ARG:HD2	2.34	0.42
18:Df:161:LYS:HA	18:Df:161:LYS:HD3	1.79	0.42
19:Di:169:ARG:NH1	19:Di:207:ARG:HD2	2.34	0.42
19:Dl:157:ASP:OD1	19:Dl:195:ARG:NH1	2.52	0.42
18:Do:224:THR:OG1	18:Do:233:SER:HB2	2.19	0.42
18:Dr:187:TYR:HE2	18:Dr:284:VAL:HG23	1.85	0.42
18:Dw:130:GLU:HG3	18:Dw:159:GLN:HE21	1.84	0.42
18:Dw:271:ASP:O	18:Dw:277:GLY:HA3	2.19	0.42
7:D1:302:ALA:HB3	7:D2:385:ARG:HB3	2.02	0.42
7:D2:302:ALA:HB3	7:D3:385:ARG:HB3	2.02	0.42
16:D0:4:LEU:O	7:Ew:319:SER:HB3	2.20	0.42
7:EK:369:LYS:HE3	7:EK:369:LYS:HB3	1.85	0.42
7:ES:302:ALA:HB3	7:ET:385:ARG:HB3	2.02	0.42
7:ET:302:ALA:HB3	7:EU:385:ARG:HB3	2.02	0.42
7:EX:219:ASP:HA	7:EX:222:VAL:HG12	2.01	0.42
7:EY:163:ARG:HA	7:EY:166:GLN:NE2	2.34	0.42
7:EY:210:GLY:O	7:EY:211:THR:OG1	2.35	0.42
7:EZ:190:SER:HB2	7:EZ:196:ASN:ND2	2.35	0.42
7:Eb:139:ASP:OD2	7:Ec:165:ARG:NH2	2.52	0.42
7:Ee:159:LEU:O	7:Ee:162:SER:OG	2.29	0.42
7:Ef:146:MET:HB3	7:Ef:150:VAL:HG21	2.02	0.42
7:Ef:163:ARG:HA	7:Ef:166:GLN:NE2	2.30	0.42
7:Ei:243:HIS:HB2	7:Ei:245:ARG:HH12	1.84	0.42
1:0:85:LYS:HA	1:0:104:ILE:HA	2.00	0.42
3:7:4:GLU:HB3	7:Ed:152:GLN:HE21	1.85	0.42
4:8:39:PRO:HD2	11:t:102:PRO:HG2	2.01	0.42
4:8:84:ALA:HB1	4:8:255:LEU:HD13	2.01	0.42
5:A:123:ASN:OD1	5:A:127:THR:N	2.53	0.42
6:A2:394:MET:HE1	6:Aq:59:GLN:NE2	2.34	0.42
5:AX:18:ASN:HB2	5:AX:41:PHE:HZ	1.85	0.42
5:AX:226:ASN:O	5:AX:230:GLU:HG2	2.19	0.42
6:Ac:151:PHE:CZ	6:Ac:344:VAL:HG11	2.55	0.42
6:Ad:21:ASN:HD22	6:M:57:GLY:H	1.67	0.42
6:Ao:105:ARG:HD2	6:Ao:396:GLU:OE2	2.19	0.42
6:Ap:42:TYR:CE2	6:Au:362:LYS:HD2	2.55	0.42
6:Ap:109:PHE:HE1	6:Ap:119:THR:HG22	1.85	0.42
6:Ar:129:GLN:HB2	6:Ar:143:GLN:NE2	2.33	0.42
6:At:54:PRO:HD3	6:Ay:14:LEU:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:433:ILE:HD11	5:S:228:THR:HG23	2.01	0.42
6:D:129:GLN:HB2	6:D:143:GLN:NE2	2.35	0.42
6:F:372:GLN:HE21	6:F:372:GLN:HB3	1.65	0.42
6:I:35:ARG:NH2	6:I:37:GLU:OE2	2.42	0.42
6:K:109:PHE:CE1	6:K:119:THR:HG22	2.55	0.42
6:O:171:ASP:OD1	6:O:171:ASP:N	2.52	0.42
5:W:101:GLY:HA3	5:W:176:ILE:HD12	2.01	0.42
10:n:218:LEU:O	10:n:222:GLN:HG3	2.20	0.42
14:B8:102:GLY:N	14:B8:105:ASP:OD2	2.48	0.42
17:CI:353:ALA:HB2	17:A7:253:ILE:CG1	2.49	0.42
14:A4:174:SER:O	14:C9:115:THR:HA	2.20	0.42
13:A8:264:SER:O	13:A8:268:GLU:HG2	2.19	0.42
14:Ce:115:THR:HA	14:Cj:174:SER:O	2.20	0.42
14:Cy:50:VAL:HG22	14:Cy:53:LEU:HB2	2.01	0.42
14:C9:50:VAL:HG22	14:C9:53:LEU:HB2	2.01	0.42
14:BD:115:THR:HA	14:BI:174:SER:O	2.20	0.42
13:BH:264:SER:O	13:BH:268:GLU:HG2	2.19	0.42
13:BR:97:ARG:HE	13:BR:99:LYS:HZ3	1.67	0.42
14:BS:115:THR:HA	14:BX:174:SER:O	2.20	0.42
13:Bl:107:ASP:OD1	13:Bl:107:ASP:N	2.48	0.42
13:Bl:236:PHE:CE1	13:Bl:284:GLU:HG3	2.54	0.42
14:Bm:115:THR:HA	14:Br:174:SER:O	2.20	0.42
17:Bu:211:MET:HE2	17:Bu:223:ARG:HB2	2.02	0.42
17:Bu:236:SER:O	17:Bu:240:ASN:ND2	2.50	0.42
17:Bu:353:ALA:HB2	17:Bz:253:ILE:CG1	2.49	0.42
14:Bw:107:ILE:HG23	14:Bw:179:VAL:HG23	2.01	0.42
18:DD:290:ARG:NH1	19:DF:207:ARG:O	2.52	0.42
19:DG:105:GLN:HE21	19:DG:105:GLN:HB2	1.50	0.42
18:DI:267:ARG:NH2	19:DJ:70:ASN:HB2	2.35	0.42
19:DJ:157:ASP:OD1	19:DJ:195:ARG:NH1	2.52	0.42
18:DP:256:ASP:OD1	18:DP:256:ASP:N	2.46	0.42
19:DR:172:TYR:HD1	19:DR:189:ARG:NH1	2.17	0.42
18:DY:58:ALA:HB1	18:DY:72:PHE:HE1	1.85	0.42
19:DZ:59:VAL:O	19:DZ:63:VAL:HG23	2.20	0.42
18:Dc:224:THR:OG1	18:Dc:233:SER:HB2	2.19	0.42
18:Dn:290:ARG:NH1	19:Dp:207:ARG:O	2.52	0.42
18:Do:271:ASP:O	18:Do:277:GLY:HA3	2.19	0.42
19:Dp:172:TYR:OH	19:Dq:127:ASP:OD2	2.33	0.42
18:Dv:104:ILE:HD11	18:Dv:128:GLU:HG3	2.01	0.42
18:Dv:187:TYR:HE2	18:Dv:284:VAL:HG23	1.85	0.42
18:Dw:244:LEU:HD23	18:Dw:244:LEU:HA	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D4:369:LYS:HE3	7:D4:369:LYS:HB3	1.85	0.42
7:EJ:450:LYS:HE2	7:EJ:450:LYS:HB2	1.85	0.42
7:EK:450:LYS:HE2	7:EK:450:LYS:HB2	1.85	0.42
7:ER:426:ILE:O	7:ER:430:LEU:HG	2.20	0.42
7:EW:302:ALA:HB3	7:Eu:385:ARG:HB3	2.02	0.42
7:EZ:174:MET:HE2	7:EZ:174:MET:HB3	1.76	0.42
7:Ec:203:VAL:HG13	7:Ec:239:VAL:HG13	2.02	0.42
7:Ee:188:LYS:HD3	7:Ee:188:LYS:HA	1.82	0.42
7:Ef:141:ILE:O	7:Ef:146:MET:HE1	2.20	0.42
7:Eg:201:ALA:HB2	7:Eg:232:MET:HE1	2.01	0.42
7:Eh:153:ARG:O	7:Eh:157:GLU:HG2	2.20	0.42
7:Eq:172:GLU:OE2	7:Eq:179:LYS:HA	2.20	0.42
7:Et:162:SER:O	7:Et:166:GLN:HG2	2.20	0.42
7:Ev:302:ALA:HB3	7:Ew:385:ARG:HB3	2.02	0.42
7:Ex:402:ASP:OD1	7:Ex:448:SER:OG	2.33	0.42
7:E3:302:ALA:HB3	7:E4:385:ARG:HB3	2.02	0.42
7:E3:426:ILE:O	7:E3:430:LEU:HG	2.20	0.42
2:2:272:LEU:HD12	2:2:273:VAL:HG23	2.02	0.41
22:2:301:PGT:H462	22:2:301:PGT:H432	1.67	0.41
5:A:26:LEU:HD23	5:A:26:LEU:HA	1.93	0.41
6:A2:171:ASP:N	6:A2:171:ASP:OD1	2.53	0.41
6:A2:329:ASP:OD2	6:A2:333:SER:HB2	2.20	0.41
7:AB:353:VAL:HG21	9:k:38:ALA:HB2	2.01	0.41
5:AQ:51:GLN:NE2	5:AQ:64:SER:OG	2.52	0.41
5:AQ:155:ASP:C	5:AQ:207:PRO:HG2	2.45	0.41
5:AT:184:GLY:O	5:AT:196:THR:OG1	2.33	0.41
5:AX:96:MET:HE3	5:AX:221:GLU:HG3	2.02	0.41
6:Ab:105:ARG:HH11	6:Ab:396:GLU:CD	2.28	0.41
6:Ac:171:ASP:N	6:Ac:171:ASP:OD1	2.53	0.41
6:Ac:329:ASP:OD2	6:Ac:333:SER:HB2	2.20	0.41
6:Af:397:GLN:HG3	6:I:3:TYR:CE1	2.55	0.41
6:Ai:172:LEU:HB3	6:Ai:212:GLN:HB2	2.02	0.41
6:At:123:GLU:OE1	6:At:367:GLN:NE2	2.38	0.41
6:Av:151:PHE:CE2	6:Av:344:VAL:HG21	2.54	0.41
6:Av:322:PHE:H	6:Av:339:SER:H	1.68	0.41
6:Aw:82:ARG:HH11	6:Aw:396:GLU:HG2	1.84	0.41
5:C:155:ASP:C	5:C:207:PRO:HG2	2.44	0.41
6:F:340:ASN:OD1	6:F:340:ASN:N	2.53	0.41
6:G:223:THR:HA	6:G:232:PRO:HA	2.02	0.41
6:I:340:ASN:OD1	6:I:340:ASN:N	2.52	0.41
6:I:351:LEU:HD12	6:I:351:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:226:ASN:O	5:R:230:GLU:HG2	2.19	0.41
5:T:7:VAL:O	5:T:10:THR:OG1	2.31	0.41
5:V:240:VAL:O	5:V:244:ASN:ND2	2.50	0.41
5:Y:161:ARG:HH11	5:Y:168:ASN:ND2	2.18	0.41
9:i:41:THR:O	9:i:42:TYR:C	2.62	0.41
9:l:100:ASN:HB3	9:l:103:GLU:HG2	2.01	0.41
10:n:123:GLY:N	10:n:127:ALA:O	2.53	0.41
10:q:97:GLU:O	10:q:183:ARG:NH1	2.52	0.41
11:r:66:SER:OG	11:r:69:ASP:OD1	2.38	0.41
11:t:87:ILE:CD1	22:t:202:PGT:H182	2.38	0.41
14:CP:102:GLY:N	14:CP:105:ASP:OD2	2.48	0.41
14:CU:107:ILE:HG23	14:CU:179:VAL:HG23	2.01	0.41
17:CX:211:MET:HE2	17:CX:223:ARG:HB2	2.02	0.41
17:Cc:211:MET:HE2	17:Cc:223:ARG:HB2	2.02	0.41
13:Cd:334:ARG:HD3	13:Ci:353:GLU:CG	2.43	0.41
17:Ch:211:MET:HE2	17:Ch:223:ARG:HB2	2.02	0.41
13:Ci:264:SER:O	13:Ci:268:GLU:HG2	2.19	0.41
17:Cr:35:ASN:HD21	14:Ct:84:SER:HA	1.85	0.41
14:Cy:115:THR:HA	14:C4:174:SER:O	2.20	0.41
13:C3:236:PHE:CE1	13:C3:284:GLU:HG3	2.54	0.41
17:B5:211:MET:HE2	17:B5:223:ARG:HB2	2.02	0.41
14:BS:50:VAL:HG22	14:BS:53:LEU:HB2	2.01	0.41
13:Bg:225:LYS:HE3	13:Bg:225:LYS:HB2	1.92	0.41
17:Bk:211:MET:HE2	17:Bk:223:ARG:HB2	2.02	0.41
17:Bp:211:MET:HE2	17:Bp:223:ARG:HB2	2.02	0.41
17:Bp:236:SER:O	17:Bp:240:ASN:ND2	2.50	0.41
18:DH:187:TYR:HE2	18:DH:284:VAL:HG23	1.85	0.41
19:DR:59:VAL:O	19:DR:63:VAL:HG23	2.20	0.41
19:DV:59:VAL:O	19:DV:63:VAL:HG23	2.20	0.41
18:Dc:200:LYS:O	18:Dc:203:SER:OG	2.30	0.41
18:Dg:224:THR:OG1	18:Dg:233:SER:HB2	2.19	0.41
18:Dg:267:ARG:NH2	19:Dh:70:ASN:HB2	2.35	0.41
18:Dk:224:THR:OG1	18:Dk:233:SER:HB2	2.19	0.41
18:Do:58:ALA:HB1	18:Do:72:PHE:HE1	1.85	0.41
19:Dp:172:TYR:HD1	19:Dp:189:ARG:NH1	2.17	0.41
18:Ds:271:ASP:O	18:Ds:277:GLY:HA3	2.20	0.41
19:Dx:172:TYR:HD1	19:Dx:189:ARG:NH1	2.17	0.41
7:D3:302:ALA:HB3	7:D4:385:ARG:HB3	2.02	0.41
7:D4:450:LYS:HE2	7:D4:450:LYS:HB2	1.85	0.41
7:EY:168:ALA:O	7:EY:172:GLU:HG2	2.20	0.41
7:Eb:218:VAL:HG21	7:Eb:247:LEU:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ec:215:GLN:HA	7:Ec:218:VAL:HG12	2.02	0.41
7:Eg:172:GLU:OE1	7:Eg:179:LYS:HA	2.20	0.41
7:Ej:167:LEU:HA	7:Ej:167:LEU:HD23	1.84	0.41
7:Ej:188:LYS:H	7:Ej:188:LYS:HD2	1.85	0.41
7:Ep:226:ALA:HA	7:Ep:232:MET:SD	2.60	0.41
7:Es:198:GLU:OE2	7:Es:199:ALA:N	2.53	0.41
7:Et:206:THR:HA	7:Et:242:GLN:CG	2.50	0.41
7:Ey:387:GLN:HE21	7:Ey:387:GLN:HB2	1.63	0.41
7:E2:369:LYS:HE3	7:E2:369:LYS:HB3	1.85	0.41
2:3:162:LEU:HD21	4:8:69:PHE:HB3	2.02	0.41
3:4:4:GLU:OE2	7:Ep:152:GLN:HB3	2.19	0.41
3:4:21:VAL:O	3:4:25:ILE:HG12	2.20	0.41
3:5:16:MET:HE2	3:5:76:TYR:HB2	2.02	0.41
5:A:9:LYS:HG3	10:o:216:THR:HG21	2.01	0.41
6:A3:327:ASP:N	6:A3:327:ASP:OD1	2.52	0.41
7:AF:346:ASP:HB3	7:AF:347:ALA:H	1.61	0.41
5:AT:185:LEU:HB3	5:AT:193:TYR:HB3	2.02	0.41
5:AY:17:THR:HG21	6:Ay:52:THR:HG21	2.01	0.41
5:AY:219:MET:HE1	6:As:59:GLN:NE2	2.35	0.41
5:Aa:219:MET:HE3	5:Aa:219:MET:HB2	1.96	0.41
5:Aa:228:THR:HG23	6:Au:433:ILE:HD13	2.01	0.41
6:Ac:172:LEU:HD22	6:Ac:212:GLN:HA	2.02	0.41
6:Af:409:LEU:HD21	6:O:422:SER:HA	2.02	0.41
6:Ag:19:THR:O	6:Ag:23:ILE:HG13	2.20	0.41
6:Ah:47:PHE:HE2	6:As:67:PHE:HB2	1.85	0.41
6:Ah:51:LYS:HB2	6:Ah:51:LYS:HE3	1.79	0.41
6:Al:304:PHE:HA	6:O:198:MET:HE1	2.01	0.41
6:Am:65:GLN:O	6:Am:66:GLN:C	2.63	0.41
6:An:325:LYS:HE3	6:An:325:LYS:HB2	1.85	0.41
6:Ap:285:MET:HB3	6:Ap:288:ALA:HB3	2.03	0.41
6:Aq:325:LYS:HB2	6:Aq:325:LYS:HE3	1.63	0.41
6:As:183:PRO:HA	6:As:186:TYR:CZ	2.54	0.41
6:Aw:59:GLN:NE2	5:Q:216:ARG:HH21	2.12	0.41
6:Aw:240:ALA:HB3	6:Aw:248:GLY:C	2.45	0.41
6:Ay:141:GLU:H	6:Ay:141:GLU:HG3	1.74	0.41
6:Az:16:LEU:HD13	6:Az:16:LEU:HA	1.85	0.41
6:E:96:LEU:O	6:E:98:PRO:HD3	2.20	0.41
6:H:352:VAL:HG13	6:H:377:LYS:HB3	2.02	0.41
6:I:46:LEU:HD12	6:I:46:LEU:HA	1.89	0.41
6:K:80:ASP:O	6:K:393:GLY:N	2.50	0.41
6:O:69:GLU:OE1	6:O:82:ARG:NH2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:U:83:HIS:NE2	5:U:96:MET:HE3	2.35	0.41
5:X:18:ASN:HD22	5:X:39:ALA:HB3	1.85	0.41
8:c:128:ILE:HD13	11:t:83:ALA:HB2	2.02	0.41
9:k:133:LEU:HA	11:r:71:MET:HE3	2.01	0.41
10:m:167:VAL:HG12	10:m:169:PRO:HD3	2.03	0.41
10:n:11:GLY:O	10:n:15:ASN:ND2	2.45	0.41
10:o:37:ASP:HB3	10:o:61:ARG:HD2	2.02	0.41
10:q:210:ASN:O	10:q:214:GLU:HG2	2.20	0.41
12:x:80:ASP:OD2	7:Eo:151:SER:HA	2.20	0.41
17:CA:263:VAL:HG11	17:CA:325:THR:HG21	2.02	0.41
17:CN:211:MET:HE2	17:CN:223:ARG:HB2	2.02	0.41
14:CZ:115:THR:HA	14:Ce:174:SER:O	2.20	0.41
14:Ce:168:LYS:HE3	14:Ce:168:LYS:HB2	1.87	0.41
17:Cm:357:GLU:OE1	17:Cr:21:ALA:HB2	2.20	0.41
13:Cn:269:MET:HE3	13:Cn:269:MET:HB3	1.96	0.41
14:Ct:115:THR:HA	14:Cy:174:SER:O	2.20	0.41
14:Cy:41:LYS:HE2	14:Cy:41:LYS:HB3	1.92	0.41
18:DA:184:ILE:HG21	19:DB:141:MET:HE2	2.01	0.41
13:B1:107:ASP:OD1	13:B1:107:ASP:N	2.48	0.41
17:BB:263:VAL:HG11	17:BB:325:THR:HG21	2.02	0.41
17:BG:35:ASN:HD21	14:BI:84:SER:HA	1.85	0.41
17:BV:357:GLU:OE1	17:Ba:21:ALA:HB2	2.20	0.41
13:BW:205:THR:OG1	14:BX:32:THR:HG22	2.18	0.41
17:Ba:353:ALA:HB2	17:Bf:253:ILE:CG1	2.49	0.41
13:Bb:236:PHE:CE1	13:Bb:284:GLU:HG3	2.54	0.41
17:Bf:357:GLU:OE1	17:Bk:21:ALA:HB2	2.20	0.41
17:Bp:263:VAL:HG11	17:Bp:325:THR:HG21	2.02	0.41
14:Br:115:THR:HA	14:Bw:174:SER:O	2.20	0.41
18:DP:58:ALA:HB1	18:DP:72:PHE:CE1	2.53	0.41
18:DU:222:THR:HG22	18:DU:284:VAL:HG22	2.00	0.41
18:DY:267:ARG:NH2	19:DZ:70:ASN:HB2	2.35	0.41
19:DZ:157:ASP:OD1	19:DZ:195:ARG:NH1	2.52	0.41
18:Dc:184:ILE:HG21	19:Dd:141:MET:HE2	2.01	0.41
19:De:169:ARG:NH1	19:De:207:ARG:HD2	2.34	0.41
18:Dk:184:ILE:HG21	19:Dl:141:MET:HE2	2.01	0.41
18:Dk:271:ASP:O	18:Dk:277:GLY:HA3	2.20	0.41
18:Dn:187:TYR:HE2	18:Dn:284:VAL:HG23	1.85	0.41
18:Ds:130:GLU:HG3	18:Ds:159:GLN:HE21	1.84	0.41
19:Dy:144:LEU:HD11	19:Dy:185:ILE:HD11	2.01	0.41
7:Dz:387:GLN:HE21	7:Dz:387:GLN:HB2	1.63	0.41
7:ER:302:ALA:HB3	7:ES:385:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EX:163:ARG:HH12	7:Eb:183:LEU:HB3	1.85	0.41
7:Eg:150:VAL:HG12	7:Eg:154:LEU:HD23	2.02	0.41
7:El:159:LEU:HD23	7:El:159:LEU:HA	1.89	0.41
7:En:227:SER:OG	7:Eo:201:ALA:O	2.33	0.41
7:Eq:191:VAL:O	7:Eq:192:PHE:HB2	2.21	0.41
7:Es:200:SER:OG	7:Es:236:ARG:O	2.30	0.41
7:Et:166:GLN:HG2	7:Et:166:GLN:H	1.70	0.41
7:Ev:426:ILE:O	7:Ev:430:LEU:HG	2.20	0.41
7:Ex:369:LYS:HE3	7:Ex:369:LYS:HB3	1.85	0.41
7:Ex:450:LYS:HE2	7:Ex:450:LYS:HB2	1.85	0.41
7:E2:302:ALA:HB3	7:E3:385:ARG:HB3	2.02	0.41
2:2:111:ARG:NE	2:2:222:GLU:OE1	2.50	0.41
4:8:61:PRO:HG3	4:8:161:GLY:HA3	2.03	0.41
6:A1:429:LEU:HD11	5:Aa:19:ILE:CD1	2.50	0.41
6:A2:325:LYS:HE3	6:A2:325:LYS:HB2	1.87	0.41
6:A2:402:MET:O	6:A2:406:LEU:HD23	2.20	0.41
6:A3:81:LEU:HD13	6:A3:109:PHE:HD2	1.85	0.41
6:A3:125:LEU:O	6:A3:144:PRO:HA	2.20	0.41
7:AA:351:GLN:OE1	5:AQ:64:SER:N	2.49	0.41
5:AP:31:THR:HG21	5:AP:191:ASN:HD21	1.85	0.41
5:AZ:16:GLN:HG3	5:AZ:241:TYR:CE2	2.51	0.41
6:Ab:397:GLN:HG3	6:E:3:TYR:CZ	2.55	0.41
6:Ae:47:PHE:O	6:Ae:48:THR:OG1	2.35	0.41
6:Ae:117:MET:HE3	6:Ae:125:LEU:HD23	2.02	0.41
6:Af:65:GLN:O	6:Af:66:GLN:C	2.64	0.41
6:Af:416:PHE:HZ	6:O:433:ILE:HD11	1.84	0.41
6:Ah:68:HIS:HB2	6:K:48:THR:CG2	2.50	0.41
6:Ah:109:PHE:CE2	6:Ah:125:LEU:HD22	2.55	0.41
6:Ai:333:SER:OG	6:Ai:348:ARG:NH2	2.54	0.41
6:Aj:16:LEU:HD22	6:Aj:412:ALA:HB1	2.02	0.41
6:Aj:119:THR:HG23	6:Aj:123:GLU:O	2.20	0.41
6:Ak:183:PRO:HA	6:Ak:186:TYR:CZ	2.55	0.41
6:Ak:188:ARG:HG3	6:Ak:308:PHE:CG	2.55	0.41
6:Ao:46:LEU:HD13	6:Az:353:ARG:HH11	1.83	0.41
6:Ap:253:PHE:HD2	6:Ap:259:LEU:HA	1.84	0.41
6:As:130:VAL:HG12	6:As:137:VAL:HA	2.02	0.41
6:At:253:PHE:HD2	6:At:259:LEU:HA	1.85	0.41
6:Au:325:LYS:HE3	6:Au:325:LYS:HB2	1.88	0.41
6:Av:69:GLU:OE1	6:Av:82:ARG:NH2	2.52	0.41
6:Av:371:THR:HG22	5:P:161:ARG:NH1	2.36	0.41
6:Ax:125:LEU:O	6:Ax:144:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ay:35:ARG:HB3	6:Ay:66:GLN:HE21	1.85	0.41
6:Az:132:PRO:HB3	6:Az:344:VAL:HG13	2.02	0.41
6:E:433:ILE:HD11	6:J:416:PHE:CZ	2.55	0.41
6:G:28:THR:OG1	6:G:31:PHE:HB2	2.20	0.41
5:Y:226:ASN:O	5:Y:230:GLU:HG2	2.20	0.41
9:j:43:LYS:HG2	9:j:77:LEU:HD21	2.02	0.41
10:n:142:ARG:HH12	10:n:200:GLN:HG2	1.86	0.41
2:y:197:THR:CB	7:Ea:194:ARG:HG2	2.49	0.41
14:B8:50:VAL:HG22	14:B8:53:LEU:HB2	2.01	0.41
17:CA:211:MET:HE2	17:CA:223:ARG:HB2	2.02	0.41
14:CC:256:ASN:O	14:B2:127:LYS:NZ	2.40	0.41
17:CF:211:MET:HE2	17:CF:223:ARG:HB2	2.02	0.41
17:A7:211:MET:HE2	17:A7:223:ARG:HB2	2.02	0.41
14:A9:115:THR:HA	14:BD:174:SER:O	2.20	0.41
17:CS:211:MET:HE2	17:CS:223:ARG:HB2	2.02	0.41
13:CT:152:VAL:HG21	13:CT:262:TRP:CH2	2.56	0.41
17:CX:353:ALA:HB2	17:Cc:253:ILE:CG1	2.49	0.41
14:CZ:102:GLY:N	14:CZ:105:ASP:OD2	2.48	0.41
13:Cd:205:THR:OG1	14:Ce:32:THR:HG22	2.18	0.41
17:Cr:357:GLU:OE1	17:Cw:21:ALA:HB2	2.20	0.41
17:C7:263:VAL:HG11	17:C7:325:THR:HG21	2.02	0.41
13:B1:152:VAL:HG21	13:B1:262:TRP:CH2	2.56	0.41
17:B5:78:LYS:HE3	17:B5:78:LYS:HB2	1.87	0.41
17:BB:211:MET:HE2	17:BB:223:ARG:HB2	2.02	0.41
17:BG:357:GLU:OE1	17:BL:21:ALA:HB2	2.20	0.41
14:BI:41:LYS:HE2	14:BI:41:LYS:HB3	1.91	0.41
17:BL:357:GLU:OE1	17:BQ:21:ALA:HB2	2.20	0.41
14:BX:50:VAL:HG22	14:BX:53:LEU:HB2	2.01	0.41
17:Ba:357:GLU:OE1	17:Bf:21:ALA:HB2	2.20	0.41
17:Bf:64:LEU:HD23	17:Bf:64:LEU:HA	1.89	0.41
17:Bp:35:ASN:HD21	14:Br:84:SER:HA	1.84	0.41
17:Bz:211:MET:HE2	17:Bz:223:ARG:HB2	2.02	0.41
19:DG:208:ASP:O	18:DI:293:VAL:HB	2.20	0.41
18:DM:67:LYS:HE2	18:DM:67:LYS:HB3	1.76	0.41
18:DQ:267:ARG:NH2	19:DR:70:ASN:HB2	2.35	0.41
18:DU:58:ALA:HB1	18:DU:72:PHE:HE1	1.85	0.41
18:DX:104:ILE:HD11	18:DX:128:GLU:HG3	2.01	0.41
18:Db:290:ARG:NH1	19:Dd:207:ARG:O	2.52	0.41
19:Du:151:ALA:HB3	19:Du:188:LEU:HD13	2.03	0.41
19:Dx:59:VAL:O	19:Dx:63:VAL:HG23	2.20	0.41
7:D1:426:ILE:O	7:D1:430:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EO:426:ILE:O	7:EO:430:LEU:HG	2.21	0.41
7:Ea:185:ALA:HB3	7:Ea:200:SER:HB3	2.02	0.41
7:Ed:166:GLN:H	7:Ed:166:GLN:HG2	1.71	0.41
7:Ek:201:ALA:HB2	7:Ek:232:MET:SD	2.60	0.41
7:Eo:183:LEU:HD13	7:Eo:183:LEU:HA	1.88	0.41
7:Ep:162:SER:O	7:Ep:166:GLN:HG2	2.21	0.41
7:Et:174:MET:HB2	7:Et:177:VAL:HB	2.02	0.41
7:Eu:426:ILE:O	7:Eu:430:LEU:HG	2.21	0.41
7:Ew:369:LYS:HE3	7:Ew:369:LYS:HB3	1.85	0.41
7:Ew:426:ILE:O	7:Ew:430:LEU:HG	2.20	0.41
7:Ey:369:LYS:HE3	7:Ey:369:LYS:HB3	1.85	0.41
1:0:147:LEU:HB2	1:0:168:PRO:HD3	2.03	0.41
2:3:273:VAL:HG22	12:x:58:PHE:CE2	2.55	0.41
3:4:17:VAL:HG23	2:y:243:VAL:HG23	2.02	0.41
4:8:207:ARG:O	4:8:207:ARG:HD3	2.20	0.41
1:9:35:GLY:O	1:9:55:GLY:N	2.53	0.41
5:A:15:GLN:O	5:A:19:ILE:HG12	2.19	0.41
6:A2:14:LEU:CD1	6:Aw:54:PRO:HD3	2.50	0.41
6:A2:425:VAL:HG13	5:P:238:GLN:CD	2.45	0.41
5:AR:94:ASP:OD1	5:AR:94:ASP:N	2.53	0.41
5:AR:95:MET:O	5:AR:118:GLY:HA3	2.20	0.41
5:AU:178:ASP:HB2	5:AU:212:LEU:HD23	2.03	0.41
5:AY:261:GLN:HE21	5:AY:261:GLN:HB3	1.71	0.41
5:Aa:249:SER:OG	5:Aa:253:LYS:NZ	2.53	0.41
6:Ac:192:SER:N	6:Ac:204:LEU:O	2.45	0.41
6:Aj:151:PHE:CE2	6:Aj:344:VAL:HG21	2.55	0.41
6:Aj:333:SER:OG	6:Aj:348:ARG:NH2	2.54	0.41
6:Al:41:VAL:HG22	6:Al:59:GLN:HB2	2.02	0.41
6:An:51:LYS:HB2	6:An:51:LYS:HE3	1.79	0.41
6:An:211:ASP:HB3	6:An:217:THR:HB	2.01	0.41
6:Av:240:ALA:HB3	6:Av:248:GLY:C	2.45	0.41
6:D:404:GLN:NE2	6:D:408:ASP:OD1	2.53	0.41
6:I:172:LEU:HD22	6:I:212:GLN:HA	2.02	0.41
6:J:433:ILE:HD11	6:O:416:PHE:CZ	2.54	0.41
5:Q:181:ASN:ND2	5:W:122:LEU:O	2.54	0.41
5:T:148:ILE:HG12	5:T:161:ARG:O	2.21	0.41
8:c:32:GLN:NE2	9:h:51:ALA:HB2	2.35	0.41
10:m:82:ILE:HD11	10:m:88:ILE:HG13	2.02	0.41
10:p:77:ASP:OD1	10:p:77:ASP:N	2.53	0.41
10:q:81:THR:HG23	10:q:200:GLN:HB3	2.02	0.41
22:v:202:PGT:H262	2:y:96:LEU:CD2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B7:353:GLU:CG	13:CB:334:ARG:HD3	2.43	0.41
17:CF:175:PRO:HB2	14:CK:80:ALA:CB	2.51	0.41
17:CF:357:GLU:OE1	17:CN:21:ALA:HB2	2.20	0.41
18:CG:187:TYR:HE2	18:CG:284:VAL:HG23	1.85	0.41
13:Cd:362:ASN:HD22	18:DM:89:ILE:CD1	2.15	0.41
14:Ce:107:ILE:HG23	14:Ce:179:VAL:HG23	2.01	0.41
17:Cm:35:ASN:HD21	14:Co:84:SER:HA	1.85	0.41
14:C4:50:VAL:HG22	14:C4:53:LEU:HB2	2.01	0.41
13:C8:152:VAL:HG21	13:C8:262:TRP:CH2	2.56	0.41
17:B5:263:VAL:HG11	17:B5:325:THR:HG21	2.02	0.41
13:B6:369:ILE:O	17:Bz:226:ARG:CD	2.61	0.41
14:BI:115:THR:HA	14:BN:174:SER:O	2.20	0.41
14:BI:133:MET:CG	14:BN:157:ASN:HD21	2.26	0.41
14:BN:168:LYS:HE3	14:BN:168:LYS:HB2	1.86	0.41
17:BQ:256:SER:HA	17:BQ:344:MET:HE3	2.02	0.41
13:BR:205:THR:OG1	14:BS:32:THR:HG22	2.18	0.41
17:BV:256:SER:HA	17:BV:344:MET:HE3	2.02	0.41
14:Bh:107:ILE:HG23	14:Bh:179:VAL:HG23	2.01	0.41
17:Bk:236:SER:O	17:Bk:240:ASN:ND2	2.50	0.41
14:Bm:107:ILE:HG23	14:Bm:179:VAL:HG23	2.01	0.41
17:Bu:35:ASN:HD21	14:Bw:84:SER:HA	1.84	0.41
19:DJ:160:SER:C	19:DJ:162:LEU:H	2.28	0.41
18:DM:184:ILE:HG21	19:DN:141:MET:HE2	2.01	0.41
18:DM:267:ARG:NH2	19:DN:70:ASN:HB2	2.35	0.41
19:DO:151:ALA:HB3	19:DO:188:LEU:HD13	2.03	0.41
19:DR:160:SER:C	19:DR:162:LEU:H	2.28	0.41
19:DS:208:ASP:O	18:DU:293:VAL:HB	2.20	0.41
18:Dg:100:HIS:O	18:Dg:133:ARG:NH2	2.38	0.41
19:Di:208:ASP:O	18:Dk:293:VAL:HB	2.20	0.41
18:Dj:144:SER:O	18:Dj:144:SER:OG	2.37	0.41
18:Dj:187:TYR:HE2	18:Dj:284:VAL:HG23	1.85	0.41
19:Dt:157:ASP:OD1	19:Dt:195:ARG:NH1	2.52	0.41
7:Dz:302:ALA:HB3	7:D1:385:ARG:HB3	2.02	0.41
7:D3:450:LYS:HB2	7:D3:450:LYS:HE2	1.85	0.41
7:EN:426:ILE:O	7:EN:430:LEU:HG	2.20	0.41
7:EO:294:VAL:HG22	7:EO:396:VAL:HG22	2.03	0.41
7:ES:426:ILE:O	7:ES:430:LEU:HG	2.21	0.41
7:Ej:150:VAL:HG11	7:Ej:158:ARG:HH11	1.84	0.41
7:E1:302:ALA:HB3	7:E2:385:ARG:HB3	2.02	0.41
7:E2:426:ILE:O	7:E2:430:LEU:HG	2.20	0.41
7:E4:302:ALA:HB3	7:E5:385:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E4:426:ILE:O	7:E4:430:LEU:HG	2.20	0.41
2:1:188:ARG:NH1	2:1:225:THR:OG1	2.46	0.41
2:2:96:LEU:HD21	22:2:301:PGT:H222	2.02	0.41
22:2:301:PGT:H182	22:2:301:PGT:H152	1.68	0.41
4:8:88:VAL:HG12	4:8:92:MET:HE3	2.03	0.41
4:8:213:ASN:HB2	4:8:215:PHE:CE1	2.56	0.41
1:9:36:ASN:OD1	1:9:56:ASN:N	2.41	0.41
5:A:155:ASP:C	5:A:207:PRO:HG2	2.46	0.41
6:A2:42:TYR:CD1	6:A2:55:GLY:HA3	2.54	0.41
6:A2:81:LEU:HD13	6:A2:109:PHE:HD2	1.84	0.41
5:AU:43:ASP:N	5:AU:43:ASP:OD1	2.53	0.41
5:AX:236:GLU:HG3	5:X:1:MET:HG2	2.02	0.41
6:Ab:172:LEU:HB3	6:Ab:212:GLN:HB2	2.02	0.41
6:Ae:141:GLU:H	6:Ae:141:GLU:HG3	1.64	0.41
6:Aj:319:THR:O	6:Aj:320:THR:HG23	2.21	0.41
6:Al:93:LYS:HB2	6:Al:93:LYS:HE2	1.88	0.41
6:Am:105:ARG:HH11	6:Am:396:GLU:CD	2.29	0.41
6:Ao:16:LEU:HD22	6:Ao:412:ALA:HB1	2.02	0.41
6:Ap:105:ARG:NH1	6:Ap:396:GLU:OE1	2.54	0.41
6:Au:99:GLN:H	6:Au:99:GLN:HG2	1.56	0.41
6:Av:401:ASP:O	6:Av:405:GLU:HG2	2.21	0.41
6:Aw:46:LEU:HD11	5:W:150:ILE:CD1	2.49	0.41
6:Ay:48:THR:HG23	5:T:82:THR:OG1	2.20	0.41
6:Az:351:LEU:HA	6:Az:351:LEU:HD12	1.86	0.41
5:B:258:VAL:HG22	10:o:229:VAL:HG21	2.00	0.41
5:C:104:GLN:NE2	5:C:175:THR:OG1	2.54	0.41
6:D:162:VAL:HG12	6:D:164:VAL:HG13	2.02	0.41
6:D:276:PRO:HA	6:D:282:PRO:HG3	2.02	0.41
6:E:114:GLU:HB2	6:E:116:TYR:HD2	1.86	0.41
6:K:28:THR:OG1	6:K:31:PHE:HB2	2.20	0.41
6:L:401:ASP:O	6:L:405:GLU:HG2	2.21	0.41
6:N:109:PHE:CE1	6:N:119:THR:HG22	2.55	0.41
5:S:83:HIS:HE1	5:S:99:GLY:H	1.66	0.41
5:T:38:ARG:HH22	5:Y:87:GLN:HE22	1.67	0.41
5:T:219:MET:HE3	5:T:219:MET:HB2	1.97	0.41
5:V:1:MET:HE2	5:V:5:LEU:HD22	2.01	0.41
5:W:95:MET:O	5:W:118:GLY:HA3	2.20	0.41
5:W:174:LEU:HD23	5:W:174:LEU:HA	1.93	0.41
5:a:188:ILE:HD13	5:a:194:LEU:HG	2.03	0.41
8:e:85:GLN:HE21	10:m:53:SER:HG	1.61	0.41
10:n:68:GLN:OE1	10:n:101:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:q:115:ASN:OD1	10:q:119:HIS:N	2.54	0.41
13:B7:152:VAL:HG21	13:B7:262:TRP:CH2	2.56	0.41
14:B8:107:ILE:HG23	14:B8:179:VAL:HG23	2.01	0.41
13:CB:353:GLU:CG	13:B6:334:ARG:HD3	2.43	0.41
17:CF:194:THR:OG1	17:CN:239:GLU:OE2	2.36	0.41
17:CF:263:VAL:HG11	17:CF:325:THR:HG21	2.02	0.41
13:CJ:152:VAL:HG21	13:CJ:262:TRP:CH2	2.56	0.41
13:A8:225:LYS:HE3	13:A8:225:LYS:HB2	1.92	0.41
14:CK:107:ILE:HG23	14:CK:179:VAL:HG23	2.01	0.41
14:CK:115:THR:HA	14:CP:174:SER:O	2.20	0.41
13:CO:152:VAL:HG21	13:CO:262:TRP:CH2	2.56	0.41
17:CS:92:PRO:O	17:CS:95:SER:OG	2.35	0.41
17:CX:175:PRO:HB2	14:CZ:80:ALA:CB	2.51	0.41
13:CY:152:VAL:HG21	13:CY:262:TRP:CH2	2.56	0.41
17:Cr:211:MET:HE2	17:Cr:223:ARG:HB2	2.02	0.41
13:Cs:152:VAL:HG21	13:Cs:262:TRP:CH2	2.56	0.41
13:C3:206:VAL:HG21	14:C4:36:ALA:HA	1.98	0.41
14:C4:133:MET:CG	14:C9:157:ASN:HD21	2.26	0.41
14:B2:80:ALA:CB	17:Bz:175:PRO:HB2	2.51	0.41
14:B2:174:SER:O	14:Bw:115:THR:HA	2.20	0.41
14:BD:102:GLY:N	14:BD:105:ASP:OD2	2.48	0.41
14:BS:41:LYS:HE2	14:BS:41:LYS:HB3	1.92	0.41
17:Ba:211:MET:HE2	17:Ba:223:ARG:HB2	2.02	0.41
13:Bb:195:ILE:HD12	13:Bb:281:LEU:HD11	2.03	0.41
14:Bc:50:VAL:HG22	14:Bc:53:LEU:HB2	2.01	0.41
17:Bf:35:ASN:HD21	14:Bh:84:SER:HA	1.85	0.41
14:Bh:50:VAL:HG22	14:Bh:53:LEU:HB2	2.01	0.41
17:Bk:35:ASN:HD21	14:Bm:84:SER:HA	1.85	0.41
17:Bk:357:GLU:OE1	17:Bp:21:ALA:HB2	2.20	0.41
14:Bm:50:VAL:HG22	14:Bm:53:LEU:HB2	2.01	0.41
19:DK:151:ALA:HB3	19:DK:188:LEU:HD13	2.03	0.41
19:DN:59:VAL:O	19:DN:63:VAL:HG23	2.20	0.41
19:DN:172:TYR:HD1	19:DN:189:ARG:NH1	2.17	0.41
19:Dd:59:VAL:O	19:Dd:63:VAL:HG23	2.20	0.41
19:De:208:ASP:O	18:Dg:293:VAL:HB	2.20	0.41
19:Dl:160:SER:C	19:Dl:162:LEU:H	2.28	0.41
19:Dp:160:SER:C	19:Dp:162:LEU:H	2.28	0.41
19:Dq:183:LYS:HE3	19:Dq:183:LYS:HB3	1.71	0.41
19:Dt:172:TYR:HD1	19:Dt:189:ARG:NH1	2.17	0.41
19:Dy:105:GLN:HE21	19:Dy:105:GLN:HB2	1.50	0.41
19:Dy:151:ALA:HB3	19:Dy:188:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Dz:426:ILE:O	7:Dz:430:LEU:HG	2.21	0.41
7:D3:387:GLN:HE21	7:D3:387:GLN:HB2	1.63	0.41
7:D4:426:ILE:O	7:D4:430:LEU:HG	2.20	0.41
7:D5:426:ILE:O	7:D5:430:LEU:HG	2.20	0.41
7:EK:426:ILE:O	7:EK:430:LEU:HG	2.21	0.41
7:Ed:174:MET:SD	7:Ed:221:ILE:HD11	2.60	0.41
7:Ek:230:PRO:HD3	7:El:185:ALA:HB1	2.03	0.41
7:Eo:201:ALA:HB3	7:Eo:237:ILE:HG23	2.02	0.41
7:Ez:369:LYS:HE3	7:Ez:369:LYS:HB3	1.85	0.41
6:A1:62:GLN:OE1	5:Aa:131:SER:OG	2.27	0.41
6:A1:433:ILE:CD1	5:Aa:241:TYR:OH	2.55	0.41
6:A2:16:LEU:HD22	6:A2:412:ALA:HB1	2.03	0.41
6:A2:414:ARG:NH1	6:Av:427:ASN:OD1	2.53	0.41
6:A3:415:ASN:O	6:A3:419:ASN:ND2	2.44	0.41
7:AB:343:PRO:HG3	8:f:80:TYR:CZ	2.55	0.41
5:AP:22:ILE:HD11	5:AP:233:ASN:HB2	2.03	0.41
5:AU:152:VAL:H	5:AU:217:GLN:NE2	2.18	0.41
5:AV:94:ASP:OD1	5:AV:94:ASP:N	2.52	0.41
5:AW:198:ALA:HB1	5:X:63:PRO:HA	2.02	0.41
5:AY:242:GLU:HB3	6:Ax:434:LEU:HD23	2.03	0.41
6:Ac:340:ASN:OD1	6:Ac:340:ASN:N	2.54	0.41
6:Ag:156:GLN:HB3	6:Ag:197:SER:HA	2.02	0.41
6:Ah:116:TYR:CE1	6:Ah:146:ASN:HB2	2.55	0.41
6:Ai:19:THR:O	6:Ai:23:ILE:HG13	2.20	0.41
6:Ai:200:GLN:HE21	6:Ai:200:GLN:HB3	1.65	0.41
6:Ak:429:LEU:HD21	6:Ap:413:GLN:HG3	2.01	0.41
6:Ap:329:ASP:OD2	6:Ap:333:SER:HB2	2.20	0.41
6:Aq:323:LEU:HD23	6:Aq:323:LEU:HA	1.89	0.41
6:Ar:429:LEU:HD21	6:Aw:413:GLN:HG3	2.03	0.41
6:Au:16:LEU:HD13	6:Au:16:LEU:HA	1.82	0.41
6:Av:50:ALA:O	6:Av:53:THR:HG22	2.21	0.41
6:Av:433:ILE:CD1	5:P:228:THR:CG2	2.95	0.41
6:Aw:130:VAL:HG22	6:Aw:347:GLY:HA2	2.02	0.41
5:C:36:LYS:HB3	5:C:225:VAL:HG12	2.03	0.41
6:D:69:GLU:OE1	6:D:82:ARG:NH2	2.53	0.41
6:F:81:LEU:HD23	6:F:390:ILE:HG21	2.02	0.41
6:H:116:TYR:CE1	6:H:146:ASN:HB2	2.55	0.41
6:L:351:LEU:HD12	6:L:351:LEU:HA	1.92	0.41
5:P:48:ASN:HD21	5:P:51:GLN:NE2	2.19	0.41
5:S:262:LEU:OXT	5:Y:246:LYS:NZ	2.37	0.41
5:T:254:MET:HE3	5:Y:241:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:U:18:ASN:HB2	5:U:41:PHE:CZ	2.55	0.41
5:U:83:HIS:HD2	5:U:84:GLY:O	2.03	0.41
5:V:257:PHE:CE2	5:V:261:GLN:HG3	2.56	0.41
5:X:151:THR:HG23	5:X:159:SER:HB2	2.02	0.41
5:Y:123:ASN:HD21	5:Y:127:THR:HB	1.86	0.41
9:l:130:LEU:HD11	10:q:248:MET:HE3	2.03	0.41
9:l:135:MET:HE2	11:v:75:ASN:HD22	1.85	0.41
2:z:184:LEU:O	2:z:187:THR:HG22	2.21	0.41
14:CC:115:THR:HA	14:CK:174:SER:O	2.20	0.41
14:CK:168:LYS:HE3	14:CK:168:LYS:HB2	1.87	0.41
17:CN:175:PRO:HB2	14:CP:80:ALA:CB	2.51	0.41
17:CS:175:PRO:HB2	14:CU:80:ALA:CB	2.51	0.41
14:CZ:107:ILE:HG23	14:CZ:179:VAL:HG23	2.01	0.41
14:Cj:107:ILE:HG23	14:Cj:179:VAL:HG23	2.01	0.41
13:C3:152:VAL:HG21	13:C3:262:TRP:CH2	2.56	0.41
13:B1:225:LYS:HE3	13:B1:225:LYS:HB2	1.92	0.41
17:BL:263:VAL:HG11	17:BL:325:THR:HG21	2.02	0.41
13:BM:264:SER:O	13:BM:268:GLU:HG2	2.19	0.41
17:Ba:175:PRO:HB2	14:Bc:80:ALA:CB	2.51	0.41
13:Bg:195:ILE:HD12	13:Bg:281:LEU:HD11	2.03	0.41
13:Bg:205:THR:OG1	14:Bh:32:THR:HG22	2.18	0.41
13:Bl:195:ILE:HD12	13:Bl:281:LEU:HD11	2.03	0.41
19:DC:151:ALA:HB3	19:DC:188:LEU:HD13	2.03	0.41
19:DS:151:ALA:HB3	19:DS:188:LEU:HD13	2.03	0.41
19:Dd:157:ASP:OD1	19:Dd:195:ARG:NH1	2.52	0.41
18:Df:187:TYR:HE2	18:Df:284:VAL:HG23	1.85	0.41
18:Dg:184:ILE:HG21	19:Dh:141:MET:HE2	2.01	0.41
19:Dq:151:ALA:HB3	19:Dq:188:LEU:HD13	2.03	0.41
7:D2:402:ASP:OD1	7:D2:448:SER:OG	2.33	0.41
7:EL:426:ILE:O	7:EL:430:LEU:HG	2.20	0.41
7:EW:426:ILE:O	7:EW:430:LEU:HG	2.21	0.41
7:EY:167:LEU:O	7:EY:171:ILE:HG12	2.21	0.41
7:EZ:155:GLU:O	7:EZ:159:LEU:HG	2.21	0.41
7:Eh:222:VAL:HG23	7:Eh:237:ILE:HB	2.02	0.41
7:Eq:160:LYS:O	7:Eq:164:GLU:HG3	2.20	0.41
7:Ev:369:LYS:HE3	7:Ev:369:LYS:HB3	1.85	0.41
7:Ew:302:ALA:HB3	7:Ex:385:ARG:HB3	2.02	0.41
7:E1:294:VAL:HG22	7:E1:396:VAL:HG22	2.03	0.41
22:2:301:PGT:H392	11:u:37:LEU:HD11	2.00	0.41
3:4:8:GLU:OE1	3:4:83:ARG:NH2	2.53	0.41
3:4:44:ILE:HG22	3:4:46:GLU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:124:LEU:HD21	1:9:127:LEU:HD21	2.02	0.41
6:A1:28:THR:HG22	6:Av:38:PHE:HB2	2.02	0.41
6:A1:329:ASP:OD2	6:A1:333:SER:HB2	2.20	0.41
6:A2:51:LYS:HB3	6:A2:51:LYS:HE2	1.68	0.41
6:A3:40:ASP:HA	5:Q:28:ASN:HD21	1.84	0.41
6:A3:414:ARG:NH1	6:Aw:430:GLN:OE1	2.53	0.41
5:AP:96:MET:HE3	5:AP:221:GLU:HA	2.02	0.41
5:AR:95:MET:HE2	5:AR:95:MET:HB3	2.00	0.41
5:AT:121:THR:OG1	5:AT:122:LEU:N	2.54	0.41
5:AU:87:GLN:NE2	5:R:38:ARG:HH22	2.19	0.41
5:AX:129:VAL:HG12	5:AX:136:PRO:HA	2.02	0.41
5:AZ:235:ILE:HG21	6:Ay:427:ASN:ND2	2.27	0.41
5:Aa:1:MET:SD	5:V:236:GLU:HA	2.60	0.41
6:Ae:329:ASP:OD2	6:Ae:333:SER:HB2	2.21	0.41
6:Ai:46:LEU:HD12	6:Ay:325:LYS:HA	2.02	0.41
6:Ak:131:ASP:OD1	6:Ak:131:ASP:N	2.54	0.41
6:Ak:319:THR:O	6:Ak:320:THR:HG23	2.20	0.41
6:Ak:369:ASP:OD1	6:Ak:370:SER:N	2.54	0.41
6:As:62:GLN:HE21	6:As:62:GLN:HB2	1.66	0.41
6:At:422:SER:HA	6:Ay:409:LEU:HD21	2.02	0.41
6:Av:168:ALA:O	6:Av:210:LYS:NZ	2.50	0.41
6:Av:415:ASN:O	6:Av:419:ASN:ND2	2.54	0.41
6:Ax:59:GLN:NE2	5:S:219:MET:HE1	2.35	0.41
6:Ay:51:LYS:HE3	6:Ay:51:LYS:HB3	1.80	0.41
5:C:40:VAL:HG11	10:m:116:ALA:HB1	2.02	0.41
6:D:183:PRO:HA	6:D:186:TYR:CZ	2.56	0.41
6:E:171:ASP:OD1	6:E:171:ASP:N	2.49	0.41
6:H:321:GLY:HA3	6:H:338:TYR:HB3	2.03	0.41
6:K:172:LEU:HD22	6:K:212:GLN:HA	2.02	0.41
6:M:109:PHE:CE1	6:M:119:THR:HG22	2.55	0.41
6:N:19:THR:O	6:N:23:ILE:HG13	2.21	0.41
6:N:96:LEU:O	6:N:98:PRO:HD3	2.21	0.41
6:O:223:THR:HG22	6:O:232:PRO:HA	2.03	0.41
5:Q:94:ASP:HA	5:Q:118:GLY:O	2.21	0.41
5:Q:94:ASP:OD1	5:Q:94:ASP:N	2.49	0.41
5:Z:43:ASP:OD1	5:Z:43:ASP:N	2.28	0.41
10:m:28:ASN:O	10:m:31:THR:OG1	2.37	0.41
10:n:16:MET:O	10:n:20:GLN:HG3	2.20	0.41
10:p:1:MET:HG3	10:p:239:ASP:HB2	2.03	0.41
14:B8:32:THR:HG22	13:B6:205:THR:OG1	2.18	0.41
17:CA:175:PRO:HB2	14:CC:80:ALA:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A4:115:THR:HA	14:A9:174:SER:O	2.20	0.41
17:CN:194:THR:OG1	17:CS:239:GLU:OE2	2.36	0.41
17:CS:357:GLU:OE1	17:CX:21:ALA:HB2	2.20	0.41
17:Cc:175:PRO:HB2	14:Ce:80:ALA:CB	2.51	0.41
17:Cc:256:SER:HA	17:Cc:344:MET:HE3	2.02	0.41
13:Cd:152:VAL:HG21	13:Cd:262:TRP:CH2	2.56	0.41
17:Cm:256:SER:HA	17:Cm:344:MET:HE3	2.02	0.41
17:Cw:357:GLU:OE1	17:C2:21:ALA:HB2	2.20	0.41
13:Cx:195:ILE:HD12	13:Cx:281:LEU:HD11	2.03	0.41
13:B1:205:THR:OG1	14:B2:32:THR:HG22	2.18	0.41
17:BG:211:MET:HE2	17:BG:223:ARG:HB2	2.02	0.41
13:BH:152:VAL:HG21	13:BH:262:TRP:CH2	2.56	0.41
17:BL:35:ASN:HD21	14:BN:84:SER:HA	1.85	0.41
17:BL:256:SER:HA	17:BL:344:MET:HE3	2.02	0.41
17:Bf:353:ALA:HB2	17:Bk:253:ILE:CG1	2.49	0.41
13:Bg:152:VAL:HG21	13:Bg:262:TRP:CH2	2.56	0.41
17:Bk:175:PRO:HB2	14:Bm:80:ALA:CB	2.51	0.41
13:Bl:322:HIS:HB2	13:Bl:338:SER:HB2	2.03	0.41
17:Bp:175:PRO:HB2	14:Br:80:ALA:CB	2.51	0.41
13:Bq:206:VAL:HG21	14:Br:36:ALA:HA	1.98	0.41
14:Br:107:ILE:HG23	14:Br:179:VAL:HG23	2.01	0.41
13:Bv:152:VAL:HG21	13:Bv:262:TRP:CH2	2.56	0.41
14:Bw:41:LYS:HE2	14:Bw:41:LYS:HB3	1.91	0.41
17:Bz:263:VAL:HG11	17:Bz:325:THR:HG21	2.02	0.41
18:DD:179:ASP:OD1	19:DG:136:ARG:NH2	2.54	0.41
18:DE:67:LYS:HE2	18:DE:67:LYS:HB3	1.76	0.41
19:DF:157:ASP:OD1	19:DF:195:ARG:NH1	2.52	0.41
19:DF:160:SER:C	19:DF:162:LEU:H	2.28	0.41
18:DU:161:LYS:HD3	18:DU:161:LYS:HA	1.75	0.41
19:Da:208:ASP:O	18:Dc:293:VAL:HB	2.20	0.41
18:Df:290:ARG:NH1	19:Dh:207:ARG:O	2.52	0.41
18:Dk:161:LYS:HD3	18:Dk:161:LYS:HA	1.75	0.41
19:Dm:105:GLN:HE21	19:Dm:105:GLN:HB2	1.50	0.41
18:Dn:179:ASP:OD1	19:Dq:136:ARG:NH2	2.54	0.41
18:Do:67:LYS:HE2	18:Do:67:LYS:HB3	1.76	0.41
19:Dp:59:VAL:O	19:Dp:63:VAL:HG23	2.20	0.41
19:Dq:86:VAL:O	19:Dq:88:VAL:N	2.53	0.41
18:Dr:104:ILE:HD11	18:Dr:128:GLU:HG3	2.01	0.41
19:Dt:161:PRO:O	19:Dt:162:LEU:HD23	2.21	0.41
18:Dv:179:ASP:OD1	19:Dy:136:ARG:NH2	2.54	0.41
7:Dz:294:VAL:HG22	7:Dz:396:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EL:373:ARG:HE	7:EL:373:ARG:HB2	1.77	0.41
7:EP:426:ILE:O	7:EP:430:LEU:HG	2.20	0.41
7:EV:426:ILE:O	7:EV:430:LEU:HG	2.20	0.41
7:EW:369:LYS:HE3	7:EW:369:LYS:HB3	1.85	0.41
7:EZ:183:LEU:HB3	7:Ea:163:ARG:NH2	2.36	0.41
7:Ea:244:GLY:HA2	7:Ep:174:MET:HE1	2.03	0.41
7:Eb:153:ARG:O	7:Eb:157:GLU:HG2	2.20	0.41
7:Ee:174:MET:HE1	7:Ef:244:GLY:CA	2.50	0.41
7:Ef:163:ARG:HA	7:Ef:166:GLN:HG2	2.02	0.41
7:Ei:219:ASP:HA	7:Ei:222:VAL:HG12	2.03	0.41
7:Ep:153:ARG:HA	7:Ep:153:ARG:NE	2.36	0.41
7:Ez:426:ILE:O	7:Ez:430:LEU:HG	2.20	0.41
7:Ez:450:LYS:HE2	7:Ez:450:LYS:HB2	1.85	0.41
7:E1:426:ILE:O	7:E1:430:LEU:HG	2.20	0.41
7:E2:294:VAL:HG22	7:E2:396:VAL:HG22	2.03	0.41
2:2:270:PHE:HE2	2:2:276:TRP:CD1	2.38	0.41
2:3:104:ILE:HG22	2:3:109:PHE:CD2	2.56	0.41
3:6:81:ILE:HA	3:6:84:LEU:HD13	2.02	0.41
6:A1:48:THR:HG22	5:V:83:HIS:H	1.84	0.41
6:A2:46:LEU:HD21	5:a:150:ILE:HD11	2.02	0.41
6:A2:239:ASP:OD1	6:A2:239:ASP:N	2.36	0.41
6:A3:81:LEU:O	6:A3:107:GLY:HA3	2.20	0.41
6:Ac:202:TYR:OH	6:Ac:285:MET:HA	2.21	0.41
6:Ad:328:PHE:CE2	6:Ad:334:VAL:HB	2.56	0.41
6:Af:156:GLN:HB3	6:Af:197:SER:HA	2.01	0.41
6:Aj:51:LYS:HE3	6:Aj:51:LYS:HB2	1.81	0.41
6:Am:106:ASN:HD22	6:Am:106:ASN:H	1.69	0.41
6:Am:433:ILE:HD13	6:Ax:403:THR:HG23	2.02	0.41
6:Aq:57:GLY:H	6:Av:21:ASN:ND2	2.17	0.41
6:As:325:LYS:HB2	6:As:325:LYS:HE3	1.74	0.41
6:Au:172:LEU:HB3	6:Au:212:GLN:HB2	2.03	0.41
6:Az:40:ASP:OD2	6:Az:42:TYR:CZ	2.73	0.41
6:Az:192:SER:N	6:Az:204:LEU:O	2.46	0.41
5:B:244:ASN:HD21	10:o:27:ALA:HA	1.84	0.41
6:D:51:LYS:HE3	6:D:51:LYS:HB2	1.73	0.41
6:D:322:PHE:H	6:D:339:SER:H	1.67	0.41
6:F:96:LEU:O	6:F:98:PRO:HD3	2.21	0.41
6:J:62:GLN:HE21	6:J:62:GLN:HB2	1.67	0.41
5:T:114:TYR:HE2	5:T:195:PRO:HD3	1.85	0.41
5:U:63:PRO:HA	5:Z:198:ALA:HB1	2.02	0.41
8:c:124:LEU:HD23	11:t:79:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:89:ASN:OD1	9:i:93:TYR:N	2.51	0.41
9:l:126:LYS:NZ	10:q:245:LEU:O	2.53	0.41
11:t:87:ILE:HD11	22:t:202:PGT:C19	2.51	0.41
13:CJ:64:ILE:HG22	13:CJ:68:MET:HE2	2.02	0.41
14:A4:41:LYS:HE2	14:A4:41:LYS:HB3	1.92	0.41
17:CX:357:GLU:OE1	17:Cc:21:ALA:HB2	2.20	0.41
13:CY:205:THR:OG1	14:CZ:32:THR:HG22	2.18	0.41
17:Cc:263:VAL:HG11	17:Cc:325:THR:HG21	2.02	0.41
17:Cc:357:GLU:OE1	17:Ch:21:ALA:HB2	2.20	0.41
17:Ch:35:ASN:HD21	14:Cj:84:SER:HA	1.84	0.41
17:Ch:256:SER:HA	17:Ch:344:MET:HE3	2.02	0.41
13:Cs:195:ILE:HD12	13:Cs:281:LEU:HD11	2.03	0.41
13:C3:195:ILE:HD12	13:C3:281:LEU:HD11	2.03	0.41
13:C8:64:ILE:HG22	13:C8:68:MET:HE2	2.02	0.41
14:B2:84:SER:HA	17:Bz:35:ASN:HD21	1.85	0.41
17:B5:21:ALA:HB2	17:Bz:357:GLU:OE1	2.20	0.41
13:B6:152:VAL:HG21	13:B6:262:TRP:CH2	2.56	0.41
17:BG:263:VAL:HG11	17:BG:325:THR:HG21	2.02	0.41
13:BH:148:ASP:OD2	13:BH:256:THR:OG1	2.28	0.41
17:BQ:175:PRO:HB2	14:BS:80:ALA:CB	2.51	0.41
13:BR:350:TYR:OH	13:BR:355:GLU:OE2	2.26	0.41
17:BV:175:PRO:HB2	14:BX:80:ALA:CB	2.51	0.41
13:BW:195:ILE:HD12	13:BW:281:LEU:HD11	2.03	0.41
14:BX:102:GLY:N	14:BX:105:ASP:OD2	2.48	0.41
17:Ba:35:ASN:HD21	14:Bc:84:SER:HA	1.85	0.41
13:Bb:269:MET:HE3	13:Bb:269:MET:HB3	1.96	0.41
13:Bl:205:THR:OG1	14:Bm:32:THR:HG22	2.18	0.41
17:Bp:357:GLU:OE1	17:Bu:21:ALA:HB2	2.20	0.41
13:Bq:205:THR:OG1	14:Br:32:THR:HG22	2.18	0.41
13:Bq:322:HIS:HB2	13:Bq:338:SER:HB2	2.03	0.41
14:Br:50:VAL:HG22	14:Br:53:LEU:HB2	2.01	0.41
13:Bv:205:THR:OG1	14:Bw:32:THR:HG22	2.18	0.41
19:DB:59:VAL:O	19:DB:63:VAL:HG23	2.20	0.41
18:DE:244:LEU:HD23	18:DE:244:LEU:HA	1.92	0.41
19:DG:151:ALA:HB3	19:DG:188:LEU:HD13	2.03	0.41
19:DK:169:ARG:NH1	19:DK:207:ARG:HD2	2.34	0.41
19:DN:160:SER:C	19:DN:162:LEU:H	2.28	0.41
18:DQ:58:ALA:HB1	18:DQ:72:PHE:HE1	1.85	0.41
19:DW:151:ALA:HB3	19:DW:188:LEU:HD13	2.03	0.41
18:Dc:161:LYS:HD3	18:Dc:161:LYS:HA	1.75	0.41
18:Df:283:ARG:HH21	19:Di:106:GLY:HA3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Dj:179:ASP:OD1	19:Dm:136:ARG:NH2	2.54	0.41
18:Dj:283:ARG:HH21	19:Dm:106:GLY:HA3	1.86	0.41
19:Dl:161:PRO:O	19:Dl:162:LEU:HD23	2.21	0.41
18:Dn:283:ARG:HH21	19:Dq:106:GLY:HA3	1.86	0.41
18:Dr:179:ASP:OD1	19:Du:136:ARG:NH2	2.54	0.41
18:Ds:244:LEU:HD23	18:Ds:244:LEU:HA	1.92	0.41
19:Du:86:VAL:O	19:Du:88:VAL:N	2.53	0.41
7:D2:426:ILE:O	7:D2:430:LEU:HG	2.20	0.41
7:EJ:426:ILE:O	7:EJ:430:LEU:HG	2.21	0.41
7:ES:294:VAL:HG22	7:ES:396:VAL:HG22	2.03	0.41
7:EU:302:ALA:HB3	7:EV:385:ARG:HB3	2.02	0.41
7:EV:302:ALA:HB3	7:EW:385:ARG:HB3	2.02	0.41
7:EY:143:LEU:HA	7:EY:143:LEU:HD23	1.74	0.41
7:Ea:164:GLU:HG2	7:Ea:184:LEU:HD13	2.02	0.41
7:Eb:171:ILE:HD12	7:Eb:221:ILE:HD12	2.03	0.41
7:Ef:150:VAL:HG11	7:Ef:158:ARG:NH1	2.36	0.41
7:Ei:185:ALA:O	7:Ei:199:ALA:HA	2.20	0.41
7:Ex:426:ILE:O	7:Ex:430:LEU:HG	2.21	0.41
7:Ez:302:ALA:HB3	7:E1:385:ARG:HB3	2.02	0.41
7:E5:294:VAL:HG22	7:E5:396:VAL:HG22	2.03	0.41
7:E5:426:ILE:O	7:E5:430:LEU:HG	2.20	0.41
1:0:159:ILE:HG13	1:0:182:ASN:HD21	1.86	0.41
2:1:242:LEU:HD13	4:8:125:LEU:HD12	2.02	0.41
2:2:104:ILE:O	2:2:110:THR:OG1	2.38	0.41
2:2:206:PRO:HG2	7:Ee:194:ARG:NH1	2.26	0.41
2:3:186:GLN:HE22	2:3:287:PHE:HA	1.86	0.41
3:5:15:TRP:CE2	7:EZ:148:PHE:HB2	2.56	0.41
3:5:20:MET:HE3	3:5:20:MET:HB2	1.97	0.41
3:7:64:LEU:CG	7:EY:148:PHE:CD1	3.04	0.41
6:A1:93:LYS:NZ	6:A1:123:GLU:OE2	2.33	0.41
6:A2:431:GLN:HG2	5:Q:239:ARG:NH1	2.36	0.41
6:A3:48:THR:HG23	5:X:82:THR:CB	2.50	0.41
5:AP:226:ASN:O	5:AP:230:GLU:HG2	2.21	0.41
5:AQ:155:ASP:HA	5:AQ:207:PRO:O	2.21	0.41
5:AR:96:MET:HG3	5:AR:221:GLU:HB2	2.03	0.41
5:AR:241:TYR:CD1	5:AX:254:MET:HE3	2.55	0.41
5:AW:96:MET:HG3	5:AW:221:GLU:HB2	2.03	0.41
5:AY:29:ALA:HA	5:AY:225:VAL:HG21	2.03	0.41
6:Ab:62:GLN:HE21	6:Ab:62:GLN:HB2	1.60	0.41
6:Ad:362:LYS:HD2	6:M:42:TYR:CE2	2.56	0.41
6:Af:171:ASP:OD1	6:Af:171:ASP:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Af:433:ILE:HD11	6:Ak:416:PHE:CZ	2.56	0.41
6:Ag:65:GLN:O	6:Ag:66:GLN:C	2.64	0.41
6:Ag:117:MET:HE3	6:Ag:125:LEU:HD23	2.02	0.41
6:Ag:207:TYR:OH	6:Ag:230:GLU:OE2	2.32	0.41
6:Ag:330:GLU:H	6:Ag:330:GLU:CD	2.29	0.41
6:Ag:351:LEU:HD12	6:Ag:351:LEU:HA	1.89	0.41
6:Ag:381:GLU:OE1	6:Ag:384:LYS:HG3	2.21	0.41
6:Ag:403:THR:O	6:Ag:407:VAL:HG23	2.21	0.41
6:Aj:68:HIS:NE2	6:Aj:399:ASN:O	2.53	0.41
6:Aj:109:PHE:CE1	6:Aj:119:THR:HG22	2.55	0.41
6:Aj:130:VAL:HG22	6:Aj:347:GLY:HA2	2.03	0.41
6:Am:184:ASP:N	6:Am:184:ASP:OD1	2.54	0.41
6:Ao:32:LYS:HD2	6:Ao:399:ASN:ND2	2.35	0.41
6:Ao:351:LEU:HD12	6:Ao:351:LEU:HA	1.86	0.41
6:Ap:82:ARG:HD2	6:Ap:396:GLU:HG2	2.02	0.41
6:At:329:ASP:OD2	6:At:333:SER:HB2	2.21	0.41
6:Aw:92:ALA:HB2	6:Aw:126:LEU:HD21	2.03	0.41
6:Ax:40:ASP:OD2	6:Ax:42:TYR:HD1	2.03	0.41
6:Ax:134:SER:OG	6:Ax:135:GLY:N	2.54	0.41
6:Ax:221:TYR:HB3	6:Ax:246:HIS:CE1	2.55	0.41
6:Az:168:ALA:O	6:Az:210:LYS:NZ	2.53	0.41
5:C:123:ASN:ND2	5:C:127:THR:HB	2.34	0.41
6:E:333:SER:OG	6:E:348:ARG:NH2	2.53	0.41
6:F:329:ASP:OD2	6:F:333:SER:HB2	2.21	0.41
6:I:28:THR:OG1	6:I:31:PHE:HB2	2.21	0.41
6:I:42:TYR:CE2	6:N:362:LYS:HD2	2.56	0.41
6:I:171:ASP:OD1	6:I:171:ASP:N	2.54	0.41
6:I:369:ASP:OD1	6:I:370:SER:N	2.53	0.41
6:I:372:GLN:HE21	6:I:372:GLN:HB3	1.67	0.41
6:K:130:VAL:HG22	6:K:347:GLY:HA2	2.02	0.41
6:K:404:GLN:NE2	6:K:408:ASP:OD1	2.53	0.41
6:N:153:LYS:HD3	6:N:153:LYS:HA	1.86	0.41
5:R:18:ASN:HD22	5:R:39:ALA:HB3	1.85	0.41
5:S:226:ASN:O	5:S:230:GLU:HG2	2.21	0.41
5:T:37:SER:HB3	5:T:77:THR:HG23	2.02	0.41
5:Y:18:ASN:HB2	5:Y:41:PHE:HZ	1.86	0.41
9:i:39:LYS:HA	9:i:39:LYS:HD3	1.74	0.41
9:i:53:LEU:N	9:i:53:LEU:HD23	2.36	0.41
9:k:96:LYS:HE3	9:k:96:LYS:HB3	1.89	0.41
10:m:40:GLN:HG2	10:m:62:PRO:HD3	2.01	0.41
10:p:1:MET:SD	10:p:1:MET:N	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:p:108:ASP:OD1	10:p:112:MET:N	2.54	0.41
10:q:14:GLN:HB3	10:q:59:THR:HG23	2.02	0.41
11:v:87:ILE:HG21	22:v:202:PGT:H392	2.01	0.41
13:B7:126:VAL:HA	13:B7:195:ILE:HG23	2.03	0.41
14:B8:80:ALA:CB	17:B5:175:PRO:HB2	2.51	0.41
14:B8:84:SER:HA	17:B5:35:ASN:HD21	1.85	0.41
17:CA:357:GLU:OE1	17:CF:21:ALA:HB2	2.20	0.41
13:CB:126:VAL:HA	13:CB:195:ILE:HG23	2.03	0.41
17:CF:35:ASN:HD21	14:CK:84:SER:HA	1.85	0.41
17:CI:211:MET:HE2	17:CI:223:ARG:HB2	2.02	0.41
13:A8:64:ILE:HG22	13:A8:68:MET:HE2	2.02	0.41
14:A9:107:ILE:HG23	14:A9:179:VAL:HG23	2.01	0.41
17:CN:35:ASN:HD21	14:CP:84:SER:HA	1.85	0.41
17:CN:357:GLU:OE1	17:CS:21:ALA:HB2	2.20	0.41
13:CO:126:VAL:HA	13:CO:195:ILE:HG23	2.03	0.41
17:CS:35:ASN:HD21	14:CU:84:SER:HA	1.85	0.41
13:CT:126:VAL:HA	13:CT:195:ILE:HG23	2.03	0.41
13:CT:317:LYS:HE3	13:CT:317:LYS:HB3	1.90	0.41
17:CX:256:SER:HA	17:CX:344:MET:HE3	2.02	0.41
17:CX:263:VAL:HG11	17:CX:325:THR:HG21	2.02	0.41
13:Cd:156:GLN:HE21	13:Cd:156:GLN:HB2	1.77	0.41
14:Ce:133:MET:CG	14:Cj:157:ASN:HD21	2.26	0.41
17:Ch:175:PRO:HB2	14:Cj:80:ALA:CB	2.51	0.41
17:Ch:263:VAL:HG11	17:Ch:325:THR:HG21	2.02	0.41
17:Ch:357:GLU:OE1	17:Cm:21:ALA:HB2	2.20	0.41
13:Cn:195:ILE:HD12	13:Cn:281:LEU:HD11	2.03	0.41
17:Cr:256:SER:HA	17:Cr:344:MET:HE3	2.02	0.41
13:Cs:148:ASP:OD2	13:Cs:256:THR:OG1	2.28	0.41
13:Cx:152:VAL:HG21	13:Cx:262:TRP:CH2	2.56	0.41
14:Cy:107:ILE:HG23	14:Cy:179:VAL:HG23	2.01	0.41
17:C2:353:ALA:HB2	17:C7:253:ILE:CG1	2.49	0.41
13:C3:64:ILE:HG22	13:C3:68:MET:HE2	2.02	0.41
13:C8:195:ILE:HD12	13:C8:281:LEU:HD11	2.03	0.41
13:B1:322:HIS:HB2	13:B1:338:SER:HB2	2.03	0.41
17:BB:175:PRO:HB2	14:BD:80:ALA:CB	2.51	0.41
17:BG:175:PRO:HB2	14:BI:80:ALA:CB	2.51	0.41
17:BG:256:SER:HA	17:BG:344:MET:HE3	2.02	0.41
17:BL:175:PRO:HB2	14:BN:80:ALA:CB	2.51	0.41
13:BM:152:VAL:HG21	13:BM:262:TRP:CH2	2.56	0.41
13:BM:205:THR:OG1	14:BN:32:THR:HG22	2.18	0.41
14:BS:107:ILE:HG23	14:BS:179:VAL:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BS:113:GLU:CD	14:BX:196:LYS:HZ1	2.29	0.41
17:BV:78:LYS:HE3	17:BV:78:LYS:HB2	1.87	0.41
17:Ba:256:SER:HA	17:Ba:344:MET:HE3	2.02	0.41
13:Bb:205:THR:OG1	14:Bc:32:THR:HG22	2.18	0.41
17:Bf:236:SER:O	17:Bf:240:ASN:ND2	2.50	0.41
13:Bg:322:HIS:HB2	13:Bg:338:SER:HB2	2.03	0.41
17:Bk:353:ALA:HB2	17:Bp:253:ILE:CG1	2.49	0.41
13:Bl:152:VAL:HG21	13:Bl:262:TRP:CH2	2.56	0.41
13:Bl:156:GLN:HE21	13:Bl:156:GLN:HB2	1.77	0.41
13:Bl:225:LYS:HE3	13:Bl:225:LYS:HB2	1.92	0.41
13:Bq:156:GLN:HE21	13:Bq:156:GLN:HB2	1.77	0.41
13:Bq:195:ILE:HD12	13:Bq:281:LEU:HD11	2.03	0.41
14:Br:102:GLY:N	14:Br:105:ASP:OD2	2.48	0.41
17:Bu:256:SER:HA	17:Bu:344:MET:HE3	2.02	0.41
13:Bv:322:HIS:HB2	13:Bv:338:SER:HB2	2.03	0.41
14:Bw:50:VAL:HG22	14:Bw:53:LEU:HB2	2.01	0.41
17:Bz:256:SER:HA	17:Bz:344:MET:HE3	2.02	0.41
19:DF:161:PRO:O	19:DF:162:LEU:HD23	2.21	0.41
19:DG:169:ARG:NH1	19:DG:207:ARG:HD2	2.34	0.41
19:DK:183:LYS:HE3	19:DK:183:LYS:HB3	1.71	0.41
18:DP:161:LYS:HA	18:DP:161:LYS:HD3	1.79	0.41
18:DU:138:SER:HG	18:DU:148:ARG:HH11	1.61	0.41
18:DX:187:TYR:HE2	18:DX:284:VAL:HG23	1.85	0.41
18:DX:256:ASP:OD1	18:DX:256:ASP:N	2.46	0.41
18:Db:187:TYR:HE2	18:Db:284:VAL:HG23	1.85	0.41
18:Db:283:ARG:HH21	19:De:106:GLY:HA3	1.86	0.41
19:Dh:161:PRO:O	19:Dh:162:LEU:HD23	2.21	0.41
19:Di:151:ALA:HB3	19:Di:188:LEU:HD13	2.03	0.41
19:Dl:144:LEU:HD12	19:Dl:144:LEU:HA	1.93	0.41
19:Dm:151:ALA:HB3	19:Dm:188:LEU:HD13	2.03	0.41
19:Dp:161:PRO:O	19:Dp:162:LEU:HD23	2.21	0.41
18:Dr:161:LYS:HD3	18:Dr:161:LYS:HA	1.80	0.41
7:D2:294:VAL:HG22	7:D2:396:VAL:HG22	2.03	0.41
7:D3:294:VAL:HG22	7:D3:396:VAL:HG22	2.03	0.41
7:EG:426:ILE:O	7:EG:430:LEU:HG	2.21	0.41
7:EH:302:ALA:HB3	7:EI:385:ARG:HB3	2.02	0.41
7:EJ:373:ARG:HE	7:EJ:373:ARG:HB2	1.77	0.41
7:EN:294:VAL:HG22	7:EN:396:VAL:HG22	2.03	0.41
7:EP:294:VAL:HG22	7:EP:396:VAL:HG22	2.03	0.41
7:EQ:302:ALA:HB3	7:ER:385:ARG:HB3	2.02	0.41
7:EQ:426:ILE:O	7:EQ:430:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ER:294:VAL:HG22	7:ER:396:VAL:HG22	2.03	0.41
7:EX:177:VAL:HG13	7:EX:207:LEU:HD23	2.02	0.41
7:EX:215:GLN:NE2	7:EX:219:ASP:OD2	2.54	0.41
7:Ea:197:GLN:OE1	7:Ep:189:HIS:NE2	2.53	0.41
7:Ec:159:LEU:HD13	7:Ed:157:GLU:OE2	2.21	0.41
7:Ec:186:LEU:HD21	7:Ec:229:VAL:HG11	2.02	0.41
7:En:174:MET:HE2	7:En:174:MET:HB3	2.00	0.41
7:E3:387:GLN:HE21	7:E3:387:GLN:HB2	1.63	0.41
2:3:128:THR:HB	2:3:129:PRO:HD3	2.03	0.41
7:AI:335:ILE:O	7:AI:336:PRO:C	2.61	0.41
7:AJ:341:ASN:ND2	8:c:86:PRO:HG3	2.36	0.41
5:AW:100:ASP:O	5:AW:213:GLY:N	2.48	0.41
5:AX:188:ILE:HD13	5:AX:194:LEU:HG	2.03	0.41
6:Ah:333:SER:OG	6:Ah:348:ARG:NH2	2.54	0.41
6:Ai:109:PHE:CE1	6:Ai:119:THR:HG22	2.56	0.41
6:Ak:42:TYR:CE2	6:Ap:362:LYS:HD2	2.56	0.41
6:Ay:2:SER:HB3	6:Ay:426:HIS:CE1	2.56	0.41
6:Ay:82:ARG:HH11	6:Ay:396:GLU:HG2	1.84	0.41
6:Ay:196:ASP:OD1	6:Ay:200:GLN:N	2.42	0.41
5:B:22:ILE:HG23	5:B:230:GLU:HB3	2.01	0.41
5:B:59:ASN:HB3	5:B:62:LEU:HB2	2.03	0.41
6:D:93:LYS:HB2	6:D:93:LYS:HE2	1.88	0.41
6:F:333:SER:OG	6:F:348:ARG:NH2	2.51	0.41
6:G:221:TYR:HB3	6:G:246:HIS:CE1	2.55	0.41
5:V:161:ARG:HH12	5:V:166:GLN:HA	1.86	0.41
10:n:144:GLY:HA2	10:n:199:LEU:HD12	2.03	0.41
10:n:231:MET:HA	10:n:234:THR:HG22	2.03	0.41
10:q:2:ASP:C	10:q:4:ALA:H	2.29	0.41
10:q:83:GLU:OE1	10:q:142:ARG:NH2	2.54	0.41
22:t:202:PGT:H172	22:t:202:PGT:H142	1.92	0.41
14:B8:127:LYS:NZ	14:CK:256:ASN:O	2.40	0.41
13:CB:205:THR:OG1	14:CC:32:THR:HG22	2.18	0.41
18:CG:161:LYS:HA	18:CG:161:LYS:HD3	1.79	0.41
13:CJ:317:LYS:HE3	13:CJ:317:LYS:HB3	1.90	0.41
13:CO:64:ILE:HG22	13:CO:68:MET:HE2	2.02	0.41
17:CS:256:SER:HA	17:CS:344:MET:HE3	2.02	0.41
17:CS:263:VAL:HG11	17:CS:325:THR:HG21	2.02	0.41
17:CS:353:ALA:HB2	17:CX:253:ILE:CG1	2.49	0.41
17:CX:35:ASN:HD21	14:CZ:84:SER:HA	1.85	0.41
13:CY:64:ILE:HG22	13:CY:68:MET:HE2	2.02	0.41
14:Ce:102:GLY:N	14:Ce:105:ASP:OD2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Ci:152:VAL:HG21	13:Ci:262:TRP:CH2	2.56	0.41
13:Ci:195:ILE:HD12	13:Ci:281:LEU:HD11	2.03	0.41
17:Cm:175:PRO:HB2	14:Co:80:ALA:CB	2.51	0.41
17:Cm:263:VAL:HG11	17:Cm:325:THR:HG21	2.02	0.41
13:Cn:152:VAL:HG21	13:Cn:262:TRP:CH2	2.56	0.41
13:Cn:322:HIS:HB2	13:Cn:338:SER:HB2	2.03	0.41
17:Cw:175:PRO:HB2	14:Cy:80:ALA:CB	2.51	0.41
13:C8:322:HIS:HB2	13:C8:338:SER:HB2	2.03	0.41
14:B2:50:VAL:HG22	14:B2:53:LEU:HB2	2.01	0.41
13:BR:195:ILE:HD12	13:BR:281:LEU:HD11	2.03	0.41
17:BV:35:ASN:HD21	14:BX:84:SER:HA	1.85	0.41
13:Bb:152:VAL:HG21	13:Bb:262:TRP:CH2	2.56	0.41
13:Bg:64:ILE:HG22	13:Bg:68:MET:HE2	2.02	0.41
17:Bp:353:ALA:HB2	17:Bu:253:ILE:CG1	2.49	0.41
17:Bu:357:GLU:OE1	17:Bz:21:ALA:HB2	2.20	0.41
19:DF:59:VAL:O	19:DF:63:VAL:HG23	2.20	0.41
18:DI:184:ILE:HG21	19:DJ:141:MET:HE2	2.01	0.41
19:DR:153:LEU:HD23	19:DR:153:LEU:HA	1.92	0.41
19:DV:161:PRO:O	19:DV:162:LEU:HD23	2.21	0.41
19:DW:86:VAL:O	19:DW:88:VAL:N	2.53	0.41
19:DZ:161:PRO:O	19:DZ:162:LEU:HD23	2.21	0.41
19:Da:151:ALA:HB3	19:Da:188:LEU:HD13	2.03	0.41
19:Dd:161:PRO:O	19:Dd:162:LEU:HD23	2.21	0.41
19:De:151:ALA:HB3	19:De:188:LEU:HD13	2.03	0.41
19:Di:86:VAL:O	19:Di:88:VAL:N	2.53	0.41
18:Dr:283:ARG:HH21	19:Du:106:GLY:HA3	1.86	0.41
7:D3:426:ILE:O	7:D3:430:LEU:HG	2.20	0.41
7:D4:302:ALA:HB3	7:D5:385:ARG:HB3	2.02	0.41
7:EG:302:ALA:HB3	7:EH:385:ARG:HB3	2.02	0.41
7:EN:302:ALA:HB3	7:EO:385:ARG:HB3	2.02	0.41
7:ES:450:LYS:HE2	7:ES:450:LYS:HB2	1.85	0.41
7:EY:183:LEU:HB3	7:EZ:163:ARG:HH22	1.86	0.41
7:Ej:213:LEU:HD13	7:Ej:217:GLU:HB2	2.02	0.41
7:Es:241:ASP:CG	7:Es:245:ARG:HG2	2.46	0.41
7:Eu:369:LYS:HE3	7:Eu:369:LYS:HB3	1.85	0.41
7:Ex:294:VAL:HG22	7:Ex:396:VAL:HG22	2.03	0.41
7:Ex:302:ALA:HB3	7:Ey:385:ARG:HB3	2.02	0.41
2:2:185:LYS:HD3	7:Ed:194:ARG:HH12	1.51	0.40
3:5:84:LEU:HD13	2:z:232:MET:HG3	2.04	0.40
6:A1:105:ARG:HD2	6:A1:396:GLU:OE2	2.21	0.40
6:A3:363:LYS:H	6:A3:363:LYS:HG2	1.72	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AP:59:ASN:HB3	5:AP:62:LEU:HB2	2.02	0.40
5:AP:102:PHE:HB3	5:AP:114:TYR:HB3	2.03	0.40
5:AP:161:ARG:HA	5:AP:161:ARG:HD2	1.96	0.40
5:AP:239:ARG:NH1	5:AT:256:SER:HB2	2.36	0.40
5:AS:37:SER:OG	5:AS:77:THR:HG22	2.20	0.40
5:AS:226:ASN:O	5:AS:230:GLU:HG2	2.22	0.40
5:AT:236:GLU:HG3	5:AT:237:ALA:N	2.35	0.40
5:AW:184:GLY:O	5:AW:196:THR:OG1	2.33	0.40
5:AY:56:SER:O	5:AY:57:SER:HB3	2.22	0.40
5:AZ:38:ARG:HH22	5:T:87:GLN:HE22	1.69	0.40
5:AZ:239:ARG:HD3	5:AZ:239:ARG:HA	1.79	0.40
6:Ab:95:ARG:HB2	6:Ab:124:PHE:CZ	2.56	0.40
6:Ac:46:LEU:HD12	6:As:325:LYS:HA	2.03	0.40
6:Ad:276:PRO:HA	6:Ad:282:PRO:HG3	2.03	0.40
6:Af:21:ASN:HD22	6:O:57:GLY:H	1.69	0.40
6:Ag:188:ARG:HG3	6:Ag:308:PHE:CG	2.56	0.40
6:Ah:65:GLN:O	6:Ah:66:GLN:C	2.64	0.40
6:Ai:372:GLN:HB2	6:At:343:ASN:HD22	1.86	0.40
6:Aj:325:LYS:HB2	6:Aj:325:LYS:HE3	1.89	0.40
6:Al:422:SER:HA	6:Aq:409:LEU:HD21	2.02	0.40
6:An:129:GLN:HB2	6:An:143:GLN:NE2	2.36	0.40
6:Ap:38:PHE:HB2	6:Au:28:THR:HG22	2.03	0.40
6:Aq:402:MET:O	6:Aq:406:LEU:HD23	2.21	0.40
6:Au:92:ALA:HB2	6:Au:126:LEU:HD21	2.03	0.40
6:Ax:415:ASN:O	6:Ax:419:ASN:ND2	2.54	0.40
6:Ay:47:PHE:HE1	5:Y:93:LEU:CD1	2.33	0.40
6:Ay:50:ALA:C	6:Ay:52:THR:N	2.74	0.40
5:B:188:ILE:HD13	5:B:194:LEU:HG	2.03	0.40
6:G:93:LYS:HE2	6:G:93:LYS:HB2	1.92	0.40
6:H:69:GLU:OE1	6:H:82:ARG:NH2	2.54	0.40
6:H:101:ASN:OD1	6:H:377:LYS:NZ	2.54	0.40
6:H:249:HIS:CG	6:H:268:ILE:HD13	2.56	0.40
6:J:351:LEU:HB3	6:J:387:PHE:CD1	2.56	0.40
6:K:223:THR:HG22	6:K:232:PRO:HA	2.03	0.40
6:O:402:MET:O	6:O:406:LEU:HD23	2.21	0.40
5:S:95:MET:O	5:S:118:GLY:HA3	2.21	0.40
5:X:24:ASN:ND2	5:X:34:TYR:OH	2.54	0.40
5:X:154:THR:HG23	5:X:214:GLU:HB3	2.02	0.40
8:e:124:LEU:HD23	11:r:79:VAL:HG11	2.03	0.40
10:p:179:ASN:HD21	10:p:183:ARG:HH21	1.69	0.40
11:t:71:MET:SD	11:t:74:ARG:HD3	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:x:69:ARG:H	12:x:69:ARG:CZ	2.34	0.40
2:y:254:MET:HB2	2:z:254:MET:SD	2.61	0.40
2:z:187:THR:O	7:EY:192:PHE:HA	2.20	0.40
17:CA:35:ASN:HD21	14:CC:84:SER:HA	1.85	0.40
17:CI:175:PRO:HB2	14:A4:80:ALA:CB	2.51	0.40
13:CJ:195:ILE:HD12	13:CJ:281:LEU:HD11	2.03	0.40
14:A4:102:GLY:N	14:A4:105:ASP:OD2	2.48	0.40
17:A7:175:PRO:HB2	14:A9:80:ALA:CB	2.51	0.40
17:CN:263:VAL:HG11	17:CN:325:THR:HG21	2.02	0.40
17:CS:194:THR:OG1	17:CX:239:GLU:OE2	2.36	0.40
13:CT:64:ILE:HG22	13:CT:68:MET:HE2	2.02	0.40
13:CY:126:VAL:HA	13:CY:195:ILE:HG23	2.03	0.40
13:CY:156:GLN:HE21	13:CY:156:GLN:HB2	1.77	0.40
17:Cc:35:ASN:HD21	14:Ce:84:SER:HA	1.85	0.40
13:Cd:64:ILE:HG22	13:Cd:68:MET:HE2	2.02	0.40
17:Cr:175:PRO:HB2	14:Ct:80:ALA:CB	2.51	0.40
13:Cs:269:MET:HE3	13:Cs:269:MET:HB3	1.96	0.40
17:C2:263:VAL:HG11	17:C2:325:THR:HG21	2.02	0.40
17:C7:175:PRO:HB2	14:C9:80:ALA:CB	2.51	0.40
13:B6:126:VAL:HA	13:B6:195:ILE:HG23	2.03	0.40
17:BB:64:LEU:HD23	17:BB:64:LEU:HA	1.89	0.40
13:BC:64:ILE:HG22	13:BC:68:MET:HE2	2.02	0.40
13:BM:195:ILE:HD12	13:BM:281:LEU:HD11	2.03	0.40
13:BR:126:VAL:HA	13:BR:195:ILE:HG23	2.03	0.40
13:Bb:126:VAL:HA	13:Bb:195:ILE:HG23	2.03	0.40
13:Bl:64:ILE:HG22	13:Bl:68:MET:HE2	2.02	0.40
13:Bq:64:ILE:HG22	13:Bq:68:MET:HE2	2.02	0.40
13:Bq:152:VAL:HG21	13:Bq:262:TRP:CH2	2.56	0.40
17:Bu:263:VAL:HG11	17:Bu:325:THR:HG21	2.02	0.40
13:Bv:195:ILE:HD12	13:Bv:281:LEU:HD11	2.03	0.40
19:DB:153:LEU:HD23	19:DB:153:LEU:HA	1.92	0.40
19:DB:160:SER:C	19:DB:162:LEU:H	2.28	0.40
18:DE:184:ILE:HG21	19:DF:141:MET:HE2	2.01	0.40
18:DH:223:TYR:HH	18:DH:269:ILE:HG12	1.87	0.40
19:DJ:59:VAL:O	19:DJ:63:VAL:HG23	2.20	0.40
19:DJ:172:TYR:HD1	19:DJ:189:ARG:NH1	2.17	0.40
19:DN:161:PRO:O	19:DN:162:LEU:HD23	2.21	0.40
18:DX:290:ARG:NH1	19:DZ:207:ARG:O	2.52	0.40
19:DZ:160:SER:C	19:DZ:162:LEU:H	2.28	0.40
19:Dh:59:VAL:O	19:Dh:63:VAL:HG23	2.20	0.40
19:Dm:208:ASP:O	18:Do:293:VAL:HB	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Dq:105:GLN:HE21	19:Dq:105:GLN:HB2	1.50	0.40
18:Dw:251:LEU:HD23	18:Dw:251:LEU:HA	1.94	0.40
19:Dx:160:SER:C	19:Dx:162:LEU:H	2.28	0.40
7:EI:302:ALA:HB3	7:EJ:385:ARG:HB3	2.02	0.40
7:ET:426:ILE:O	7:ET:430:LEU:HG	2.21	0.40
7:EU:426:ILE:O	7:EU:430:LEU:HG	2.21	0.40
7:Ec:223:ASP:OD1	7:Ed:238:THR:OG1	2.39	0.40
7:El:230:PRO:HD3	7:Em:185:ALA:HB1	2.02	0.40
7:En:175:LYS:HE2	7:En:175:LYS:HB2	1.90	0.40
7:Eq:200:SER:OG	7:Eq:201:ALA:N	2.53	0.40
7:E4:294:VAL:HG22	7:E4:396:VAL:HG22	2.03	0.40
2:2:96:LEU:HB3	11:u:90:LYS:HB3	2.03	0.40
3:5:88:LEU:O	7:EY:192:PHE:CE2	2.74	0.40
6:A1:109:PHE:CE1	6:A1:119:THR:HG22	2.55	0.40
6:A3:33:GLU:HG2	6:A3:68:HIS:HE1	1.87	0.40
7:AG:339:LEU:HD11	9:k:72:GLU:HG3	2.03	0.40
5:AT:240:VAL:O	5:AT:244:ASN:ND2	2.39	0.40
5:AU:28:ASN:OD1	5:AU:28:ASN:N	2.53	0.40
5:AU:155:ASP:C	5:AU:207:PRO:HG2	2.45	0.40
6:Ad:109:PHE:HE1	6:Ad:119:THR:HG22	1.87	0.40
6:Af:93:LYS:HE2	6:Af:93:LYS:HB2	1.89	0.40
6:Ai:183:PRO:HA	6:Ai:186:TYR:CZ	2.55	0.40
6:Aj:6:LEU:HD13	6:Ap:407:VAL:HG11	2.03	0.40
6:Al:65:GLN:O	6:Al:66:GLN:C	2.65	0.40
6:Al:329:ASP:OD2	6:Al:333:SER:HB2	2.21	0.40
6:Aq:38:PHE:CB	6:Av:28:THR:HG22	2.49	0.40
6:Ar:35:ARG:O	6:Ar:64:ALA:N	2.46	0.40
6:Ar:187:ASN:OD1	6:Ar:210:LYS:N	2.53	0.40
6:Aw:77:ASN:HB3	6:Aw:80:ASP:OD2	2.22	0.40
6:Az:109:PHE:CE1	6:Az:119:THR:HG22	2.55	0.40
6:K:105:ARG:NH1	6:K:396:GLU:OE2	2.44	0.40
6:O:93:LYS:HE2	6:O:93:LYS:HB2	1.91	0.40
5:P:43:ASP:OD1	5:P:43:ASP:N	2.39	0.40
5:U:261:GLN:HE21	5:U:261:GLN:HB3	1.71	0.40
5:V:1:MET:SD	5:a:236:GLU:HA	2.62	0.40
5:X:123:ASN:ND2	5:X:127:THR:HB	2.36	0.40
5:Y:31:THR:HG21	5:Y:191:ASN:HD21	1.86	0.40
11:v:71:MET:SD	11:v:74:ARG:HD3	2.61	0.40
2:z:152:GLU:CD	2:z:178:PRO:HB3	2.46	0.40
17:CA:78:LYS:HE3	17:CA:78:LYS:HB2	1.87	0.40
13:CJ:225:LYS:HE3	13:CJ:225:LYS:HB2	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CN:256:SER:HA	17:CN:344:MET:HE3	2.02	0.40
13:Ci:322:HIS:HB2	13:Ci:338:SER:HB2	2.03	0.40
13:Cs:322:HIS:HB2	13:Cs:338:SER:HB2	2.03	0.40
17:Cw:353:ALA:HB2	17:C2:253:ILE:CG1	2.49	0.40
13:Cx:64:ILE:HG22	13:Cx:68:MET:HE2	2.02	0.40
17:C2:175:PRO:HB2	14:C4:80:ALA:CB	2.51	0.40
17:B5:256:SER:HA	17:B5:344:MET:HE3	2.02	0.40
13:B6:225:LYS:HE3	13:B6:225:LYS:HB2	1.92	0.40
13:BC:152:VAL:HG21	13:BC:262:TRP:CH2	2.56	0.40
17:BQ:35:ASN:HD21	14:BS:84:SER:HA	1.85	0.40
13:BW:126:VAL:HA	13:BW:195:ILE:HG23	2.03	0.40
13:Bb:64:ILE:HG22	13:Bb:68:MET:HE2	2.02	0.40
13:Bb:322:HIS:HB2	13:Bb:338:SER:HB2	2.03	0.40
19:DB:157:ASP:OD1	19:DB:195:ARG:NH1	2.52	0.40
18:DM:58:ALA:HB1	18:DM:72:PHE:HE1	1.85	0.40
19:DR:161:PRO:O	19:DR:162:LEU:HD23	2.21	0.40
18:DT:179:ASP:OD1	19:DW:136:ARG:NH2	2.54	0.40
18:DU:92:PRO:HA	18:DU:93:PRO:HD3	2.00	0.40
19:DV:59:VAL:HG22	19:DV:87:CYS:HB3	2.03	0.40
19:DV:160:SER:C	19:DV:162:LEU:H	2.28	0.40
18:DX:223:TYR:HH	18:DX:269:ILE:HG12	1.86	0.40
18:DX:283:ARG:HH21	19:Da:106:GLY:HA3	1.86	0.40
18:Db:144:SER:O	18:Db:144:SER:OG	2.37	0.40
18:Dc:256:ASP:OD1	18:Dc:256:ASP:N	2.32	0.40
19:Dd:59:VAL:HG22	19:Dd:87:CYS:HB3	2.03	0.40
19:Dh:160:SER:C	19:Dh:162:LEU:H	2.28	0.40
18:Dj:290:ARG:NH1	19:Dl:207:ARG:O	2.52	0.40
18:Dv:290:ARG:NH1	19:Dx:207:ARG:O	2.52	0.40
7:Dz:385:ARG:HB3	7:E5:302:ALA:HB3	2.02	0.40
20:D9:7:ASP:HA	7:ET:319:SER:HB3	2.03	0.40
7:EJ:302:ALA:HB3	7:EK:385:ARG:HB3	2.02	0.40
7:EK:373:ARG:HE	7:EK:373:ARG:HB2	1.77	0.40
7:EL:302:ALA:HB3	7:EM:385:ARG:HB3	2.02	0.40
7:EM:302:ALA:HB3	7:EN:385:ARG:HB3	2.02	0.40
7:EP:369:LYS:HE3	7:EP:369:LYS:HB3	1.85	0.40
7:ET:294:VAL:HG22	7:ET:396:VAL:HG22	2.03	0.40
7:EX:147:GLY:O	7:EX:149:GLY:N	2.54	0.40
7:Ee:187:PRO:HB2	7:Ee:189:HIS:CD2	2.57	0.40
7:Ei:174:MET:HE1	7:Ej:244:GLY:CA	2.51	0.40
7:Ej:152:GLN:HG3	7:Ej:153:ARG:HE	1.86	0.40
7:Ey:426:ILE:O	7:Ey:430:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:14:LEU:HA	3:4:17:VAL:HG12	2.04	0.40
3:7:68:TRP:CD1	7:EX:148:PHE:CD1	3.09	0.40
6:A2:3:TYR:CE1	5:W:87:GLN:HG2	2.56	0.40
6:Ac:172:LEU:HB3	6:Ac:212:GLN:HB2	2.03	0.40
6:Ag:397:GLN:HG3	6:J:3:TYR:CZ	2.57	0.40
6:Ah:48:THR:CG2	6:As:68:HIS:HB2	2.52	0.40
6:Ai:209:LEU:HD22	6:Ai:219:ASN:HD22	1.85	0.40
6:Aj:57:GLY:H	6:Ao:21:ASN:ND2	2.19	0.40
6:Ak:322:PHE:H	6:Ak:339:SER:H	1.69	0.40
6:Ak:433:ILE:HD11	6:Ap:416:PHE:HZ	1.85	0.40
6:At:16:LEU:HA	6:At:16:LEU:HD13	1.85	0.40
6:At:129:GLN:HB2	6:At:143:GLN:HE21	1.85	0.40
6:At:174:ASP:HB3	6:At:177:GLN:HB2	2.04	0.40
6:Ax:40:ASP:OD2	6:Ax:42:TYR:CD1	2.75	0.40
6:Ax:151:PHE:CE2	6:Ax:344:VAL:HG21	2.56	0.40
6:Ay:73:ILE:HD11	6:Ay:395:LEU:HD12	2.02	0.40
6:D:415:ASN:O	6:D:419:ASN:ND2	2.54	0.40
6:H:156:GLN:HB3	6:H:197:SER:HA	2.02	0.40
6:L:105:ARG:NH1	6:L:396:GLU:OE2	2.41	0.40
6:L:195:TYR:HD2	6:L:317:GLY:HA3	1.86	0.40
5:P:239:ARG:HA	5:P:239:ARG:HD3	1.74	0.40
5:T:58:GLN:HG2	5:T:59:ASN:ND2	2.37	0.40
5:U:101:GLY:HA3	5:U:176:ILE:HD12	2.03	0.40
5:W:58:GLN:HG2	5:W:59:ASN:ND2	2.36	0.40
8:c:43:LEU:HD12	8:c:78:LYS:H	1.86	0.40
8:f:31:ALA:HB1	9:l:13:ALA:HB2	2.03	0.40
9:i:25:SER:HB2	10:n:7:LEU:HD23	2.04	0.40
10:m:15:ASN:ND2	10:m:228:GLN:HE22	2.18	0.40
10:n:28:ASN:O	10:n:31:THR:OG1	2.37	0.40
10:o:167:VAL:HG12	10:o:169:PRO:HD3	2.04	0.40
10:p:92:ASP:OD1	10:p:92:ASP:N	2.54	0.40
13:B7:64:ILE:HG22	13:B7:68:MET:HE2	2.02	0.40
13:CB:152:VAL:HG21	13:CB:262:TRP:CH2	2.56	0.40
13:CJ:322:HIS:HB2	13:CJ:338:SER:HB2	2.03	0.40
13:A8:152:VAL:HG21	13:A8:262:TRP:CH2	2.56	0.40
14:A9:102:GLY:N	14:A9:105:ASP:OD2	2.48	0.40
13:Cd:195:ILE:HD12	13:Cd:281:LEU:HD11	2.03	0.40
13:Cd:206:VAL:HG21	14:Ce:36:ALA:HA	1.98	0.40
13:Ci:64:ILE:HG22	13:Ci:68:MET:HE2	2.02	0.40
17:Cr:263:VAL:HG11	17:Cr:325:THR:HG21	2.02	0.40
17:Cw:263:VAL:HG11	17:Cw:325:THR:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C3:322:HIS:HB2	13:C3:338:SER:HB2	2.03	0.40
13:BH:205:THR:OG1	14:BI:32:THR:HG22	2.18	0.40
13:BM:126:VAL:HA	13:BM:195:ILE:HG23	2.03	0.40
17:Ba:236:SER:O	17:Ba:240:ASN:ND2	2.50	0.40
17:Bf:175:PRO:HB2	14:Bh:80:ALA:CB	2.51	0.40
13:Bg:126:VAL:HA	13:Bg:195:ILE:HG23	2.03	0.40
13:Bg:282:GLU:O	13:Bg:286:SER:OG	2.31	0.40
17:Bp:256:SER:HA	17:Bp:344:MET:HE3	2.02	0.40
17:Bz:92:PRO:O	17:Bz:95:SER:OG	2.35	0.40
19:DB:161:PRO:O	19:DB:162:LEU:HD23	2.21	0.40
18:DH:179:ASP:OD1	19:DK:136:ARG:NH2	2.54	0.40
19:DR:59:VAL:HG22	19:DR:87:CYS:HB3	2.03	0.40
19:DZ:59:VAL:HG22	19:DZ:87:CYS:HB3	2.03	0.40
18:Dj:216:ASP:OD2	18:Dj:291:THR:OG1	2.24	0.40
19:Dt:59:VAL:O	19:Dt:63:VAL:HG23	2.20	0.40
7:D2:327:ASN:HB2	7:D2:366:SER:HB3	2.04	0.40
7:EH:426:ILE:O	7:EH:430:LEU:HG	2.20	0.40
7:EI:426:ILE:O	7:EI:430:LEU:HG	2.20	0.40
7:EJ:294:VAL:HG22	7:EJ:396:VAL:HG22	2.03	0.40
7:EK:302:ALA:HB3	7:EL:385:ARG:HB3	2.02	0.40
7:EY:242:GLN:H	7:EY:242:GLN:HG2	1.67	0.40
7:EZ:167:LEU:HD23	7:EZ:167:LEU:HA	1.85	0.40
7:Ef:179:LYS:HB3	7:Ef:206:THR:OG1	2.21	0.40
7:Ek:227:SER:O	7:El:200:SER:OG	2.31	0.40
7:Eq:167:LEU:HD23	7:Eq:167:LEU:HA	1.80	0.40
7:E3:402:ASP:OD1	7:E3:448:SER:OG	2.33	0.40
2:1:189:ILE:HD12	2:1:189:ILE:H	1.85	0.40
3:6:56:ILE:HG12	3:7:18:LEU:HD11	2.04	0.40
3:6:80:LEU:HD23	3:6:80:LEU:HA	1.93	0.40
6:A2:43:SER:HB3	5:W:98:GLU:HG3	2.03	0.40
5:AR:236:GLU:HG3	5:AR:237:ALA:N	2.35	0.40
5:AS:28:ASN:HD21	5:AW:43:ASP:HB3	1.86	0.40
5:AY:120:PHE:HE1	5:AY:130:THR:HG22	1.87	0.40
6:Ac:77:ASN:HD21	6:Ac:79:MET:HB2	1.86	0.40
6:Ac:330:GLU:OE2	6:Ac:331:ASN:ND2	2.55	0.40
6:Ad:416:PHE:CZ	6:M:433:ILE:HD11	2.56	0.40
6:Ag:51:LYS:HB2	6:Ag:51:LYS:HE3	1.82	0.40
6:Ak:211:ASP:HB3	6:Ak:217:THR:HB	2.02	0.40
6:Am:79:MET:O	6:Am:109:PHE:HB2	2.22	0.40
6:Ao:329:ASP:OD2	6:Ao:333:SER:HB2	2.21	0.40
6:Ap:16:LEU:HD22	6:Ap:412:ALA:HB1	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:93:LYS:HE2	6:Ar:93:LYS:HB2	1.86	0.40
6:As:93:LYS:HE2	6:As:93:LYS:HB2	1.84	0.40
6:Au:151:PHE:CE2	6:Au:344:VAL:HG21	2.57	0.40
6:Ax:48:THR:HG22	5:S:82:THR:CB	2.49	0.40
6:Ax:111:LEU:HD11	6:Ax:147:ILE:HD12	2.03	0.40
6:Ay:434:LEU:CD1	5:T:231:LEU:CD1	3.00	0.40
6:Az:434:LEU:HD11	5:U:231:LEU:HD11	2.03	0.40
5:C:32:VAL:HG21	5:C:220:LEU:HD13	2.03	0.40
6:D:323:LEU:HD22	6:D:324:THR:H	1.85	0.40
6:K:19:THR:O	6:K:23:ILE:HG13	2.22	0.40
6:L:137:VAL:HG11	6:L:140:TYR:CE2	2.57	0.40
6:L:319:THR:O	6:L:320:THR:HG23	2.21	0.40
5:Q:240:VAL:HA	5:Q:243:MET:HG2	2.03	0.40
5:T:162:VAL:HB	5:T:165:GLN:HE21	1.86	0.40
5:V:185:LEU:HB3	5:V:193:TYR:HB3	2.03	0.40
5:Z:151:THR:HG23	5:Z:159:SER:HB2	2.04	0.40
5:Z:206:VAL:HG23	5:Z:209:LEU:HB2	2.03	0.40
10:n:76:ARG:O	10:n:202:GLY:HA2	2.20	0.40
10:n:108:ASP:OD1	10:n:112:MET:N	2.54	0.40
10:q:10:SER:O	10:q:14:GLN:HG2	2.22	0.40
10:q:167:VAL:HG12	10:q:169:PRO:HD3	2.03	0.40
13:B7:205:THR:OG1	14:CK:32:THR:HG22	2.18	0.40
17:CA:21:ALA:HB2	17:B5:357:GLU:OE1	2.20	0.40
17:CF:256:SER:HA	17:CF:344:MET:HE3	2.02	0.40
13:Cd:126:VAL:HA	13:Cd:195:ILE:HG23	2.03	0.40
13:Cn:64:ILE:HG22	13:Cn:68:MET:HE2	2.02	0.40
13:Cn:362:ASN:HD22	18:DQ:89:ILE:CD1	2.15	0.40
13:Cs:64:ILE:HG22	13:Cs:68:MET:HE2	2.02	0.40
17:Cw:256:SER:HA	17:Cw:344:MET:HE3	2.02	0.40
13:Cx:322:HIS:HB2	13:Cx:338:SER:HB2	2.03	0.40
17:C2:211:MET:HE2	17:C2:223:ARG:HB2	2.02	0.40
17:C2:256:SER:HA	17:C2:344:MET:HE3	2.02	0.40
13:B1:126:VAL:HA	13:B1:195:ILE:HG23	2.03	0.40
13:B6:322:HIS:HB2	13:B6:338:SER:HB2	2.03	0.40
13:BH:64:ILE:HG22	13:BH:68:MET:HE2	2.02	0.40
13:BW:64:ILE:HG22	13:BW:68:MET:HE2	2.02	0.40
13:BW:152:VAL:HG21	13:BW:262:TRP:CH2	2.56	0.40
17:Bf:256:SER:HA	17:Bf:344:MET:HE3	2.02	0.40
13:Bv:64:ILE:HG22	13:Bv:68:MET:HE2	2.02	0.40
19:DN:59:VAL:HG22	19:DN:87:CYS:HB3	2.03	0.40
19:Dh:59:VAL:HG22	19:Dh:87:CYS:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Dt:160:SER:C	19:Dt:162:LEU:H	2.28	0.40
18:Dv:283:ARG:HH21	19:Dy:106:GLY:HA3	1.86	0.40
7:D5:372:THR:CG2	20:D7:6:THR:CB	2.99	0.40
7:EG:294:VAL:HG22	7:EG:396:VAL:HG22	2.03	0.40
7:EK:294:VAL:HG22	7:EK:396:VAL:HG22	2.03	0.40
7:EO:302:ALA:HB3	7:EP:385:ARG:HB3	2.02	0.40
7:EX:197:GLN:NE2	7:EY:230:PRO:HB2	2.36	0.40
7:EY:155:GLU:O	7:EY:159:LEU:HG	2.21	0.40
7:Ea:167:LEU:HD23	7:Ea:167:LEU:HA	1.76	0.40
7:Eh:175:LYS:HE2	7:Eh:175:LYS:HB2	1.84	0.40
7:El:203:VAL:HG13	7:El:239:VAL:HA	2.04	0.40
7:Em:217:GLU:O	7:Em:221:ILE:HG12	2.21	0.40
7:Ex:327:ASN:HB2	7:Ex:366:SER:HB3	2.04	0.40
7:Ey:294:VAL:HG22	7:Ey:396:VAL:HG22	2.03	0.40
7:E3:294:VAL:HG22	7:E3:396:VAL:HG22	2.03	0.40
7:E3:369:LYS:HB3	7:E3:369:LYS:HE3	1.85	0.40
3:6:7:VAL:HG23	4:8:137:PHE:HZ	1.87	0.40
5:A:155:ASP:OD1	5:T:57:SER:HA	2.21	0.40
6:A1:327:ASP:N	6:A1:327:ASP:OD1	2.55	0.40
6:A2:429:LEU:HD22	5:P:241:TYR:CD1	2.57	0.40
5:AS:2:HIS:CD2	5:AS:4:ALA:H	2.34	0.40
5:AS:22:ILE:HG21	5:AS:234:MET:HG2	2.03	0.40
5:AT:31:THR:HG21	5:AT:191:ASN:HD21	1.87	0.40
5:AY:219:MET:HE3	5:AY:219:MET:HB2	1.98	0.40
5:AZ:243:MET:HG3	6:Ay:434:LEU:HD21	2.03	0.40
6:Ab:80:ASP:O	6:Ab:393:GLY:N	2.54	0.40
6:Ab:361:ASP:HB3	6:Ab:371:THR:HG21	2.03	0.40
6:Ac:21:ASN:HD22	6:L:57:GLY:H	1.70	0.40
6:Ac:105:ARG:HH11	6:Ac:396:GLU:CD	2.29	0.40
6:Ad:351:LEU:HD13	6:Ad:390:ILE:HD11	2.04	0.40
6:Ah:369:ASP:OD1	6:Ah:370:SER:N	2.53	0.40
6:An:351:LEU:HD12	6:An:351:LEU:HA	1.85	0.40
6:An:429:LEU:HD21	6:As:413:GLN:HG3	2.04	0.40
6:As:42:TYR:CE2	6:Ax:362:LYS:HD2	2.57	0.40
6:As:50:ALA:C	6:As:52:THR:N	2.78	0.40
6:Av:105:ARG:HH11	6:Av:396:GLU:CD	2.30	0.40
6:E:130:VAL:HG22	6:E:347:GLY:HA2	2.03	0.40
6:H:93:LYS:HE2	6:H:93:LYS:HB2	1.94	0.40
6:H:276:PRO:HA	6:H:282:PRO:HG3	2.03	0.40
6:L:328:PHE:CE2	6:L:334:VAL:HB	2.57	0.40
5:P:43:ASP:HB3	5:V:28:ASN:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:91:ASN:HD22	5:R:92:ALA:N	2.20	0.40
5:T:82:THR:HG23	5:T:224:ASN:HD22	1.86	0.40
13:B7:107:ASP:OD1	13:B7:107:ASP:N	2.47	0.40
14:CC:127:LYS:NZ	14:CP:256:ASN:O	2.40	0.40
17:CX:175:PRO:HB2	14:CZ:80:ALA:CA	2.52	0.40
17:CX:194:THR:OG1	17:Cc:239:GLU:OE2	2.36	0.40
17:Cc:175:PRO:HB2	14:Ce:80:ALA:CA	2.52	0.40
13:Cd:322:HIS:HB2	13:Cd:338:SER:HB2	2.03	0.40
17:Cm:64:LEU:HD23	17:Cm:64:LEU:HA	1.89	0.40
14:C9:102:GLY:N	14:C9:105:ASP:OD2	2.48	0.40
13:B1:89:LEU:HD23	13:B1:89:LEU:HA	1.98	0.40
13:B6:34:ILE:HA	13:B6:41:ALA:HB2	2.04	0.40
13:B6:64:ILE:HG22	13:B6:68:MET:HE2	2.02	0.40
13:B6:317:LYS:HE3	13:B6:317:LYS:HB3	1.90	0.40
17:BG:175:PRO:HB2	14:BI:80:ALA:CA	2.52	0.40
17:BQ:64:LEU:HD23	17:BQ:64:LEU:HA	1.89	0.40
17:BQ:211:MET:HE2	17:BQ:223:ARG:HB2	2.02	0.40
13:BR:152:VAL:HG21	13:BR:262:TRP:CH2	2.56	0.40
13:Bl:126:VAL:HA	13:Bl:195:ILE:HG23	2.03	0.40
13:Bl:148:ASP:OD2	13:Bl:256:THR:OG1	2.28	0.40
14:Br:168:LYS:HE3	14:Br:168:LYS:HB2	1.87	0.40
17:Bu:175:PRO:HB2	14:Bw:80:ALA:CB	2.51	0.40
19:DJ:163:ASP:OD1	19:DJ:163:ASP:N	2.55	0.40
18:DP:179:ASP:OD1	19:DS:136:ARG:NH2	2.54	0.40
19:DS:86:VAL:O	19:DS:88:VAL:N	2.53	0.40
19:Dh:157:ASP:OD1	19:Dh:195:ARG:NH1	2.52	0.40
7:D4:294:VAL:HG22	7:D4:396:VAL:HG22	2.03	0.40
7:EM:426:ILE:O	7:EM:430:LEU:HG	2.21	0.40
7:EX:172:GLU:OE1	7:EX:179:LYS:HA	2.22	0.40
7:EZ:239:VAL:N	7:EZ:248:SER:OG	2.52	0.40
7:Ef:179:LYS:HE3	7:Ef:179:LYS:HB2	1.92	0.40
7:Ef:191:VAL:O	7:Ef:192:PHE:HB2	2.21	0.40
7:Eg:227:SER:HG	7:Eh:200:SER:HG	1.59	0.40
7:El:236:ARG:HD3	7:El:236:ARG:HA	1.84	0.40
7:Ev:402:ASP:OD1	7:Ev:448:SER:OG	2.33	0.40
7:E3:327:ASN:HB2	7:E3:366:SER:HB3	2.04	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	0	178/199 (89%)	173 (97%)	5 (3%)	0	100	100
1	9	178/199 (89%)	174 (98%)	4 (2%)	0	100	100
2	1	205/289 (71%)	202 (98%)	3 (2%)	0	100	100
2	2	206/289 (71%)	203 (98%)	3 (2%)	0	100	100
2	3	206/289 (71%)	204 (99%)	2 (1%)	0	100	100
2	y	206/289 (71%)	202 (98%)	4 (2%)	0	100	100
2	z	206/289 (71%)	202 (98%)	4 (2%)	0	100	100
3	4	87/89 (98%)	87 (100%)	0	0	100	100
3	5	87/89 (98%)	86 (99%)	0	1 (1%)	11	42
3	6	87/89 (98%)	84 (97%)	3 (3%)	0	100	100
3	7	87/89 (98%)	86 (99%)	1 (1%)	0	100	100
4	8	238/260 (92%)	232 (98%)	6 (2%)	0	100	100
5	A	260/262 (99%)	251 (96%)	9 (4%)	0	100	100
5	AP	260/262 (99%)	253 (97%)	6 (2%)	1 (0%)	30	61
5	AQ	260/262 (99%)	248 (95%)	11 (4%)	1 (0%)	30	61
5	AR	244/262 (93%)	240 (98%)	3 (1%)	1 (0%)	30	61
5	AS	244/262 (93%)	235 (96%)	9 (4%)	0	100	100
5	AT	245/262 (94%)	239 (98%)	5 (2%)	1 (0%)	30	61
5	AU	244/262 (93%)	240 (98%)	4 (2%)	0	100	100
5	AV	244/262 (93%)	242 (99%)	1 (0%)	1 (0%)	30	61
5	AW	260/262 (99%)	254 (98%)	5 (2%)	1 (0%)	30	61
5	AX	260/262 (99%)	254 (98%)	6 (2%)	0	100	100
5	AY	260/262 (99%)	254 (98%)	6 (2%)	0	100	100
5	AZ	260/262 (99%)	255 (98%)	5 (2%)	0	100	100
5	Aa	260/262 (99%)	249 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	B	260/262 (99%)	250 (96%)	10 (4%)	0	100	100
5	C	260/262 (99%)	252 (97%)	7 (3%)	1 (0%)	30	61
5	P	260/262 (99%)	253 (97%)	6 (2%)	1 (0%)	30	61
5	Q	260/262 (99%)	257 (99%)	3 (1%)	0	100	100
5	R	260/262 (99%)	254 (98%)	6 (2%)	0	100	100
5	S	260/262 (99%)	253 (97%)	7 (3%)	0	100	100
5	T	260/262 (99%)	253 (97%)	7 (3%)	0	100	100
5	U	260/262 (99%)	255 (98%)	5 (2%)	0	100	100
5	V	260/262 (99%)	251 (96%)	9 (4%)	0	100	100
5	W	260/262 (99%)	253 (97%)	6 (2%)	1 (0%)	30	61
5	X	260/262 (99%)	250 (96%)	9 (4%)	1 (0%)	30	61
5	Y	260/262 (99%)	253 (97%)	7 (3%)	0	100	100
5	Z	260/262 (99%)	253 (97%)	7 (3%)	0	100	100
5	a	260/262 (99%)	253 (97%)	7 (3%)	0	100	100
6	A1	433/437 (99%)	419 (97%)	12 (3%)	2 (0%)	24	58
6	A2	433/437 (99%)	418 (96%)	13 (3%)	2 (0%)	24	58
6	A3	433/437 (99%)	419 (97%)	13 (3%)	1 (0%)	43	73
6	Ab	433/437 (99%)	416 (96%)	17 (4%)	0	100	100
6	Ac	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	Ad	433/437 (99%)	418 (96%)	15 (4%)	0	100	100
6	Ae	433/437 (99%)	422 (98%)	11 (2%)	0	100	100
6	Af	433/437 (99%)	417 (96%)	16 (4%)	0	100	100
6	Ag	433/437 (99%)	417 (96%)	16 (4%)	0	100	100
6	Ah	433/437 (99%)	417 (96%)	16 (4%)	0	100	100
6	Ai	433/437 (99%)	420 (97%)	13 (3%)	0	100	100
6	Aj	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	Ak	433/437 (99%)	418 (96%)	15 (4%)	0	100	100
6	Al	433/437 (99%)	420 (97%)	13 (3%)	0	100	100
6	Am	433/437 (99%)	418 (96%)	15 (4%)	0	100	100
6	An	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	Ao	433/437 (99%)	422 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Ap	433/437 (99%)	416 (96%)	16 (4%)	1 (0%)	43	73
6	Aq	433/437 (99%)	418 (96%)	13 (3%)	2 (0%)	24	58
6	Ar	433/437 (99%)	417 (96%)	14 (3%)	2 (0%)	24	58
6	As	433/437 (99%)	417 (96%)	14 (3%)	2 (0%)	24	58
6	At	433/437 (99%)	420 (97%)	12 (3%)	1 (0%)	43	73
6	Au	433/437 (99%)	417 (96%)	14 (3%)	2 (0%)	24	58
6	Av	433/437 (99%)	422 (98%)	8 (2%)	3 (1%)	18	52
6	Aw	433/437 (99%)	416 (96%)	15 (4%)	2 (0%)	24	58
6	Ax	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	Ay	433/437 (99%)	420 (97%)	12 (3%)	1 (0%)	43	73
6	Az	433/437 (99%)	417 (96%)	15 (4%)	1 (0%)	43	73
6	D	433/437 (99%)	420 (97%)	13 (3%)	0	100	100
6	E	433/437 (99%)	416 (96%)	17 (4%)	0	100	100
6	F	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	G	433/437 (99%)	418 (96%)	15 (4%)	0	100	100
6	H	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	I	433/437 (99%)	418 (96%)	15 (4%)	0	100	100
6	J	433/437 (99%)	420 (97%)	13 (3%)	0	100	100
6	K	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	L	433/437 (99%)	420 (97%)	13 (3%)	0	100	100
6	M	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	N	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
6	O	433/437 (99%)	419 (97%)	14 (3%)	0	100	100
7	AA	17/580 (3%)	17 (100%)	0	0	100	100
7	AB	17/580 (3%)	15 (88%)	2 (12%)	0	100	100
7	AC	18/580 (3%)	18 (100%)	0	0	100	100
7	AD	17/580 (3%)	17 (100%)	0	0	100	100
7	AE	17/580 (3%)	17 (100%)	0	0	100	100
7	AF	21/580 (4%)	14 (67%)	6 (29%)	1 (5%)	2	13
7	AG	9/580 (2%)	7 (78%)	2 (22%)	0	100	100
7	AH	9/580 (2%)	9 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	AI	9/580 (2%)	8 (89%)	1 (11%)	0	100	100
7	AJ	22/580 (4%)	18 (82%)	4 (18%)	0	100	100
7	AK	23/580 (4%)	23 (100%)	0	0	100	100
7	AL	30/580 (5%)	26 (87%)	4 (13%)	0	100	100
7	AM	31/580 (5%)	31 (100%)	0	0	100	100
7	AN	31/580 (5%)	31 (100%)	0	0	100	100
7	AO	30/580 (5%)	30 (100%)	0	0	100	100
7	D1	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	D2	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	D3	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	D4	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	D5	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	Dz	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	E1	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	E2	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	E3	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	E4	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	E5	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EG	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EH	142/580 (24%)	139 (98%)	3 (2%)	0	100	100
7	EI	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EJ	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EK	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EL	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EM	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EN	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EO	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EP	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EQ	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	ER	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	ES	142/580 (24%)	138 (97%)	4 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	ET	142/580 (24%)	139 (98%)	3 (2%)	0	100	100
7	EU	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EV	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EW	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	EX	112/580 (19%)	100 (89%)	10 (9%)	2 (2%)	6	33
7	EY	112/580 (19%)	99 (88%)	12 (11%)	1 (1%)	14	46
7	EZ	112/580 (19%)	101 (90%)	11 (10%)	0	100	100
7	Ea	112/580 (19%)	102 (91%)	9 (8%)	1 (1%)	14	46
7	Eb	112/580 (19%)	104 (93%)	7 (6%)	1 (1%)	14	46
7	Ec	105/580 (18%)	97 (92%)	7 (7%)	1 (1%)	12	44
7	Ed	112/580 (19%)	99 (88%)	11 (10%)	2 (2%)	6	33
7	Ee	112/580 (19%)	99 (88%)	12 (11%)	1 (1%)	14	46
7	Ef	112/580 (19%)	102 (91%)	9 (8%)	1 (1%)	14	46
7	Eg	90/580 (16%)	83 (92%)	6 (7%)	1 (1%)	11	42
7	Eh	101/580 (17%)	93 (92%)	7 (7%)	1 (1%)	12	44
7	Ei	101/580 (17%)	93 (92%)	8 (8%)	0	100	100
7	Ej	101/580 (17%)	90 (89%)	10 (10%)	1 (1%)	12	44
7	Ek	81/580 (14%)	74 (91%)	7 (9%)	0	100	100
7	El	88/580 (15%)	83 (94%)	5 (6%)	0	100	100
7	Em	87/580 (15%)	82 (94%)	5 (6%)	0	100	100
7	En	85/580 (15%)	81 (95%)	4 (5%)	0	100	100
7	Eo	88/580 (15%)	80 (91%)	8 (9%)	0	100	100
7	Ep	112/580 (19%)	106 (95%)	5 (4%)	1 (1%)	14	46
7	Eq	112/580 (19%)	98 (88%)	13 (12%)	1 (1%)	14	46
7	Er	112/580 (19%)	103 (92%)	8 (7%)	1 (1%)	14	46
7	Es	101/580 (17%)	95 (94%)	4 (4%)	2 (2%)	6	30
7	Et	112/580 (19%)	104 (93%)	6 (5%)	2 (2%)	6	33
7	Eu	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	Ev	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	Ew	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	Ex	142/580 (24%)	138 (97%)	4 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	Ey	142/580 (24%)	138 (97%)	4 (3%)	0	100	100
7	Ez	142/580 (24%)	139 (98%)	3 (2%)	0	100	100
8	b	105/131 (80%)	104 (99%)	1 (1%)	0	100	100
8	c	103/131 (79%)	102 (99%)	1 (1%)	0	100	100
8	d	105/131 (80%)	103 (98%)	2 (2%)	0	100	100
8	e	104/131 (79%)	104 (100%)	0	0	100	100
8	f	104/131 (79%)	103 (99%)	1 (1%)	0	100	100
9	g	126/137 (92%)	122 (97%)	4 (3%)	0	100	100
9	h	126/137 (92%)	123 (98%)	3 (2%)	0	100	100
9	i	126/137 (92%)	122 (97%)	3 (2%)	1 (1%)	16	48
9	j	126/137 (92%)	125 (99%)	1 (1%)	0	100	100
9	k	126/137 (92%)	120 (95%)	6 (5%)	0	100	100
9	l	126/137 (92%)	121 (96%)	5 (4%)	0	100	100
10	m	246/249 (99%)	242 (98%)	4 (2%)	0	100	100
10	n	246/249 (99%)	242 (98%)	4 (2%)	0	100	100
10	o	246/249 (99%)	241 (98%)	5 (2%)	0	100	100
10	p	246/249 (99%)	242 (98%)	4 (2%)	0	100	100
10	q	246/249 (99%)	240 (98%)	6 (2%)	0	100	100
11	r	70/103 (68%)	70 (100%)	0	0	100	100
11	s	78/103 (76%)	78 (100%)	0	0	100	100
11	t	78/103 (76%)	77 (99%)	1 (1%)	0	100	100
11	u	70/103 (68%)	69 (99%)	1 (1%)	0	100	100
11	v	70/103 (68%)	69 (99%)	1 (1%)	0	100	100
11	w	38/103 (37%)	38 (100%)	0	0	100	100
12	x	69/376 (18%)	69 (100%)	0	0	100	100
13	A8	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	B1	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	B6	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	B7	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	BC	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	BH	350/377 (93%)	346 (99%)	4 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	BM	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	BR	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	BW	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Bb	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Bg	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Bl	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Bq	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Bv	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	C3	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	C8	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	CB	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	CJ	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	CO	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	CT	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	CY	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Cd	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Ci	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Cn	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Cs	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
13	Cx	350/377 (93%)	346 (99%)	4 (1%)	0	100	100
14	A4	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	A9	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	B2	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	B8	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	BD	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	BI	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	BN	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	BS	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	BX	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Bc	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Bh	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	Bm	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Br	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Bw	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	C4	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	C9	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	CC	217/259 (84%)	211 (97%)	5 (2%)	1 (0%)	24	58
14	CK	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	CP	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	CU	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	CZ	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Ce	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Cj	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
14	Co	217/259 (84%)	211 (97%)	5 (2%)	1 (0%)	24	58
14	Ct	217/259 (84%)	211 (97%)	5 (2%)	1 (0%)	24	58
14	Cy	217/259 (84%)	212 (98%)	4 (2%)	1 (0%)	24	58
15	A0	9/143 (6%)	9 (100%)	0	0	100	100
15	A5	9/143 (6%)	9 (100%)	0	0	100	100
15	B3	9/143 (6%)	9 (100%)	0	0	100	100
15	B9	9/143 (6%)	9 (100%)	0	0	100	100
15	BE	9/143 (6%)	9 (100%)	0	0	100	100
15	BJ	9/143 (6%)	9 (100%)	0	0	100	100
15	BO	9/143 (6%)	9 (100%)	0	0	100	100
15	BT	9/143 (6%)	9 (100%)	0	0	100	100
15	BY	9/143 (6%)	9 (100%)	0	0	100	100
15	Bd	9/143 (6%)	9 (100%)	0	0	100	100
15	Bi	9/143 (6%)	9 (100%)	0	0	100	100
15	Bn	9/143 (6%)	9 (100%)	0	0	100	100
15	Bs	9/143 (6%)	9 (100%)	0	0	100	100
15	Bx	9/143 (6%)	9 (100%)	0	0	100	100
15	C0	9/143 (6%)	9 (100%)	0	0	100	100
15	C5	9/143 (6%)	9 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	CD	9/143 (6%)	9 (100%)	0	0	100	100
15	CL	9/143 (6%)	9 (100%)	0	0	100	100
15	CQ	9/143 (6%)	9 (100%)	0	0	100	100
15	CV	9/143 (6%)	9 (100%)	0	0	100	100
15	Ca	9/143 (6%)	9 (100%)	0	0	100	100
15	Cf	9/143 (6%)	9 (100%)	0	0	100	100
15	Ck	9/143 (6%)	9 (100%)	0	0	100	100
15	Cp	9/143 (6%)	9 (100%)	0	0	100	100
15	Cu	9/143 (6%)	9 (100%)	0	0	100	100
15	Cz	9/143 (6%)	9 (100%)	0	0	100	100
16	A6	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	B0	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	B4	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BA	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BF	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BK	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BP	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BU	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	BZ	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Be	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Bj	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Bo	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Bt	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	By	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	C1	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	C6	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	CE	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	CH	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	CM	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	CR	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	CW	11/13 (85%)	9 (82%)	2 (18%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
16	Cb	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Cg	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Cl	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Cq	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	Cv	11/13 (85%)	9 (82%)	2 (18%)	0	100	100
16	D0	11/13 (85%)	6 (54%)	4 (36%)	1 (9%)	0	3
17	A7	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	B5	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	BB	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	BG	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	BL	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	BQ	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	BV	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Ba	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Bf	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Bk	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Bp	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Bu	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Bz	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	C2	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	C7	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CA	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CF	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CI	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CN	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CS	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	CX	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Cc	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Ch	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Cm	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
17	Cr	281/363 (77%)	275 (98%)	6 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	Cw	281/363 (77%)	275 (98%)	6 (2%)	0	100	100
18	CG	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DA	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	DD	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DE	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	DH	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DI	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	DL	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DM	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	DP	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DQ	269/293 (92%)	266 (99%)	3 (1%)	0	100	100
18	DT	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DU	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	DX	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	DY	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	Db	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Dc	269/293 (92%)	266 (99%)	3 (1%)	0	100	100
18	Df	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Dg	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	Dj	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Dk	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	Dn	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Do	269/293 (92%)	266 (99%)	3 (1%)	0	100	100
18	Dr	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Ds	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
18	Dv	268/293 (92%)	259 (97%)	9 (3%)	0	100	100
18	Dw	269/293 (92%)	267 (99%)	2 (1%)	0	100	100
19	DB	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21	55
19	DC	177/211 (84%)	172 (97%)	5 (3%)	0	100	100
19	DF	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21	55
19	DG	177/211 (84%)	172 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
19	DJ	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	DK	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	DN	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	DO	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	DR	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	DS	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	DV	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	DW	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	DZ	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Da	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dd	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	De	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dh	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Di	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dl	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Dm	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dp	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Dq	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dt	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Du	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
19	Dx	177/211 (84%)	170 (96%)	6 (3%)	1 (1%)	21 55
19	Dy	177/211 (84%)	172 (97%)	5 (3%)	0	100 100
20	D6	10/13 (77%)	4 (40%)	5 (50%)	1 (10%)	0 2
20	D7	7/13 (54%)	3 (43%)	4 (57%)	0	100 100
20	D8	8/13 (62%)	8 (100%)	0	0	100 100
20	D9	8/13 (62%)	3 (38%)	3 (38%)	2 (25%)	0 0
21	EA	15/17 (88%)	15 (100%)	0	0	100 100
21	EB	15/17 (88%)	15 (100%)	0	0	100 100
21	EC	15/17 (88%)	15 (100%)	0	0	100 100
21	ED	15/17 (88%)	15 (100%)	0	0	100 100
21	EE	15/17 (88%)	15 (100%)	0	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
21	EF	15/17 (88%)	15 (100%)	0	0	100 100
All	All	70998/115790 (61%)	69020 (97%)	1880 (3%)	98 (0%)	49 78

All (98) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
6	A1	50	ALA
6	A2	50	ALA
6	Aq	50	ALA
6	Ar	49	ASN
6	Ar	50	ALA
6	As	49	ASN
6	Au	52	THR
6	Aw	52	THR
6	Az	53	THR
5	X	58	GLN
19	DB	35	GLU
19	DF	35	GLU
19	DJ	35	GLU
19	DN	35	GLU
19	DR	35	GLU
19	DV	35	GLU
19	DZ	35	GLU
19	Dd	35	GLU
19	Dh	35	GLU
19	Dl	35	GLU
19	Dp	35	GLU
19	Dt	35	GLU
19	Dx	35	GLU
20	D6	11	ILE
20	D9	7	ASP
16	D0	7	ILE
7	Eh	152	GLN
6	A1	49	ASN
6	Aq	51	LYS
6	As	50	ALA
6	Av	49	ASN
6	Av	50	ALA
6	Aw	51	LYS
7	EY	193	VAL
7	Ec	152	GLN
7	Ed	152	GLN

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Mol	Chain	Res	Type
7	Es	152	GLN
3	5	88	LEU
6	A2	51	LYS
5	AT	167	ASP
6	Av	48	THR
20	D9	8	GLY
7	Eb	190	SER
7	Eq	152	GLN
7	Et	152	GLN
5	AV	167	ASP
6	Ay	49	ASN
9	i	42	TYR
14	B8	201	ASN
14	CC	201	ASN
14	A4	201	ASN
14	A9	201	ASN
14	CK	201	ASN
14	CP	201	ASN
14	CU	201	ASN
14	CZ	201	ASN
14	Ce	201	ASN
14	Cj	201	ASN
14	Co	201	ASN
14	Ct	201	ASN
14	Cy	201	ASN
14	C4	201	ASN
14	C9	201	ASN
14	B2	201	ASN
14	BD	201	ASN
14	BI	201	ASN
14	BN	201	ASN
14	BS	201	ASN
14	BX	201	ASN
14	Bc	201	ASN
14	Bh	201	ASN
14	Bm	201	ASN
14	Br	201	ASN
14	Bw	201	ASN
7	EX	148	PHE
7	Ea	190	SER
7	Ed	249	SER
7	Ej	152	GLN

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Mol	Chain	Res	Type
5	AR	167	ASP
6	At	50	ALA
5	C	167	ASP
5	P	167	ASP
5	W	167	ASP
7	EX	211	THR
7	Eg	152	GLN
5	AP	167	ASP
5	AQ	167	ASP
5	AW	57	SER
7	Ef	211	THR
7	Ep	198	GLU
7	Er	189	HIS
7	Es	211	THR
7	Et	211	THR
6	A3	55	GLY
6	Au	54	PRO
7	Ee	191	VAL
6	Ap	54	PRO
7	AF	349	ILE

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	0	149/167 (89%)	145 (97%)	4 (3%)	39	66
1	9	149/167 (89%)	148 (99%)	1 (1%)	76	81
2	1	181/247 (73%)	175 (97%)	6 (3%)	33	63
2	2	182/247 (74%)	176 (97%)	6 (3%)	33	63
2	3	182/247 (74%)	177 (97%)	5 (3%)	39	66
2	y	182/247 (74%)	175 (96%)	7 (4%)	29	60
2	z	182/247 (74%)	175 (96%)	7 (4%)	29	60
3	4	80/80 (100%)	77 (96%)	3 (4%)	29	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	5	80/80 (100%)	77 (96%)	3 (4%)	29	60
3	6	80/80 (100%)	75 (94%)	5 (6%)	16	46
3	7	80/80 (100%)	79 (99%)	1 (1%)	61	75
4	8	204/218 (94%)	194 (95%)	10 (5%)	22	53
5	A	218/218 (100%)	214 (98%)	4 (2%)	51	72
5	AP	218/218 (100%)	214 (98%)	4 (2%)	51	72
5	AQ	218/218 (100%)	211 (97%)	7 (3%)	34	63
5	AR	206/218 (94%)	200 (97%)	6 (3%)	37	64
5	AS	206/218 (94%)	200 (97%)	6 (3%)	37	64
5	AT	207/218 (95%)	200 (97%)	7 (3%)	32	62
5	AU	206/218 (94%)	202 (98%)	4 (2%)	50	71
5	AV	206/218 (94%)	199 (97%)	7 (3%)	32	62
5	AW	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	AX	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	AY	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	AZ	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	Aa	218/218 (100%)	215 (99%)	3 (1%)	59	75
5	B	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	C	218/218 (100%)	211 (97%)	7 (3%)	34	63
5	P	218/218 (100%)	211 (97%)	7 (3%)	34	63
5	Q	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	R	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	S	218/218 (100%)	213 (98%)	5 (2%)	44	68
5	T	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	U	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	V	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	W	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	X	218/218 (100%)	215 (99%)	3 (1%)	59	75
5	Y	218/218 (100%)	211 (97%)	7 (3%)	34	63
5	Z	218/218 (100%)	212 (97%)	6 (3%)	38	65
5	a	218/218 (100%)	211 (97%)	7 (3%)	34	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	A1	364/366 (100%)	354 (97%)	10 (3%)	39	66
6	A2	364/366 (100%)	356 (98%)	8 (2%)	45	69
6	A3	364/366 (100%)	352 (97%)	12 (3%)	33	63
6	Ab	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Ac	364/366 (100%)	347 (95%)	17 (5%)	23	55
6	Ad	364/366 (100%)	345 (95%)	19 (5%)	21	52
6	Ae	364/366 (100%)	348 (96%)	16 (4%)	25	56
6	Af	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Ag	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Ah	364/366 (100%)	346 (95%)	18 (5%)	22	53
6	Ai	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Aj	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Ak	364/366 (100%)	348 (96%)	16 (4%)	25	56
6	Al	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Am	364/366 (100%)	348 (96%)	16 (4%)	25	56
6	An	364/366 (100%)	351 (96%)	13 (4%)	31	61
6	Ao	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Ap	364/366 (100%)	345 (95%)	19 (5%)	21	52
6	Aq	364/366 (100%)	345 (95%)	19 (5%)	21	52
6	Ar	364/366 (100%)	345 (95%)	19 (5%)	21	52
6	As	364/366 (100%)	347 (95%)	17 (5%)	23	55
6	At	364/366 (100%)	346 (95%)	18 (5%)	22	53
6	Au	364/366 (100%)	346 (95%)	18 (5%)	22	53
6	Av	364/366 (100%)	342 (94%)	22 (6%)	17	48
6	Aw	364/366 (100%)	346 (95%)	18 (5%)	22	53
6	Ax	364/366 (100%)	347 (95%)	17 (5%)	23	55
6	Ay	364/366 (100%)	349 (96%)	15 (4%)	27	58
6	Az	364/366 (100%)	353 (97%)	11 (3%)	36	64
6	D	364/366 (100%)	348 (96%)	16 (4%)	25	56
6	E	364/366 (100%)	348 (96%)	16 (4%)	25	56
6	F	364/366 (100%)	350 (96%)	14 (4%)	29	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	G	364/366 (100%)	348 (96%)	16 (4%)	25 56
6	H	364/366 (100%)	350 (96%)	14 (4%)	29 60
6	I	364/366 (100%)	347 (95%)	17 (5%)	23 55
6	J	364/366 (100%)	348 (96%)	16 (4%)	25 56
6	K	364/366 (100%)	342 (94%)	22 (6%)	17 48
6	L	364/366 (100%)	343 (94%)	21 (6%)	18 49
6	M	364/366 (100%)	342 (94%)	22 (6%)	17 48
6	N	364/366 (100%)	346 (95%)	18 (5%)	22 53
6	O	364/366 (100%)	349 (96%)	15 (4%)	27 58
7	AA	15/500 (3%)	14 (93%)	1 (7%)	15 45
7	AB	15/500 (3%)	14 (93%)	1 (7%)	15 45
7	AC	15/500 (3%)	15 (100%)	0	100 100
7	AD	15/500 (3%)	14 (93%)	1 (7%)	15 45
7	AE	15/500 (3%)	15 (100%)	0	100 100
7	AF	17/500 (3%)	13 (76%)	4 (24%)	1 4
7	AG	8/500 (2%)	8 (100%)	0	100 100
7	AH	8/500 (2%)	7 (88%)	1 (12%)	4 20
7	AI	8/500 (2%)	8 (100%)	0	100 100
7	AJ	17/500 (3%)	16 (94%)	1 (6%)	18 48
7	AK	18/500 (4%)	15 (83%)	3 (17%)	2 10
7	AL	24/500 (5%)	23 (96%)	1 (4%)	26 58
7	AM	24/500 (5%)	24 (100%)	0	100 100
7	AN	24/500 (5%)	22 (92%)	2 (8%)	10 37
7	AO	24/500 (5%)	23 (96%)	1 (4%)	26 58
7	D1	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	D2	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	D3	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	D4	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	D5	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Dz	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	E1	128/500 (26%)	123 (96%)	5 (4%)	28 60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	E2	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	E3	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	E4	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	E5	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EG	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EH	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EI	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EJ	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EK	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EL	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EM	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EN	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EO	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EP	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EQ	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	ER	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	ES	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	ET	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EU	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EV	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EW	128/500 (26%)	123 (96%)	5 (4%)	28	60
7	EX	98/500 (20%)	86 (88%)	12 (12%)	5	21
7	EY	98/500 (20%)	84 (86%)	14 (14%)	3	15
7	EZ	98/500 (20%)	89 (91%)	9 (9%)	8	32
7	Ea	98/500 (20%)	88 (90%)	10 (10%)	7	28
7	Eb	98/500 (20%)	86 (88%)	12 (12%)	5	21
7	Ec	93/500 (19%)	85 (91%)	8 (9%)	10	35
7	Ed	98/500 (20%)	89 (91%)	9 (9%)	8	32
7	Ee	98/500 (20%)	89 (91%)	9 (9%)	8	32
7	Ef	98/500 (20%)	93 (95%)	5 (5%)	21	52
7	Eg	81/500 (16%)	78 (96%)	3 (4%)	30	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	Eh	90/500 (18%)	84 (93%)	6 (7%)	15 45
7	Ei	90/500 (18%)	81 (90%)	9 (10%)	7 29
7	Ej	90/500 (18%)	78 (87%)	12 (13%)	4 18
7	Ek	75/500 (15%)	71 (95%)	4 (5%)	20 51
7	El	79/500 (16%)	72 (91%)	7 (9%)	9 33
7	Em	78/500 (16%)	73 (94%)	5 (6%)	16 46
7	En	77/500 (15%)	72 (94%)	5 (6%)	15 46
7	Eo	79/500 (16%)	73 (92%)	6 (8%)	12 40
7	Ep	98/500 (20%)	88 (90%)	10 (10%)	7 28
7	Eq	98/500 (20%)	88 (90%)	10 (10%)	7 28
7	Er	98/500 (20%)	91 (93%)	7 (7%)	13 43
7	Es	89/500 (18%)	83 (93%)	6 (7%)	15 45
7	Et	98/500 (20%)	93 (95%)	5 (5%)	21 52
7	Eu	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Ev	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Ew	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Ex	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Ey	128/500 (26%)	123 (96%)	5 (4%)	28 60
7	Ez	128/500 (26%)	123 (96%)	5 (4%)	28 60
8	b	89/106 (84%)	88 (99%)	1 (1%)	65 77
8	c	88/106 (83%)	86 (98%)	2 (2%)	44 68
8	d	89/106 (84%)	86 (97%)	3 (3%)	32 62
8	e	88/106 (83%)	85 (97%)	3 (3%)	32 62
8	f	88/106 (83%)	88 (100%)	0	100 100
9	g	111/115 (96%)	106 (96%)	5 (4%)	24 56
9	h	111/115 (96%)	107 (96%)	4 (4%)	31 61
9	i	111/115 (96%)	103 (93%)	8 (7%)	13 42
9	j	111/115 (96%)	106 (96%)	5 (4%)	24 56
9	k	111/115 (96%)	105 (95%)	6 (5%)	20 51
9	l	111/115 (96%)	106 (96%)	5 (4%)	24 56
10	m	204/205 (100%)	199 (98%)	5 (2%)	42 67

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	n	204/205 (100%)	198 (97%)	6 (3%)	37	64
10	o	204/205 (100%)	198 (97%)	6 (3%)	37	64
10	p	204/205 (100%)	202 (99%)	2 (1%)	68	78
10	q	204/205 (100%)	200 (98%)	4 (2%)	48	70
11	r	63/84 (75%)	59 (94%)	4 (6%)	16	46
11	s	66/84 (79%)	64 (97%)	2 (3%)	36	64
11	t	66/84 (79%)	63 (96%)	3 (4%)	24	56
11	u	63/84 (75%)	62 (98%)	1 (2%)	55	73
11	v	63/84 (75%)	63 (100%)	0	100	100
11	w	36/84 (43%)	35 (97%)	1 (3%)	38	65
12	x	58/317 (18%)	55 (95%)	3 (5%)	21	52
13	A8	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	B1	308/332 (93%)	306 (99%)	2 (1%)	78	83
13	B6	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	B7	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	BC	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	BH	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	BM	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	BR	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	BW	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Bb	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Bg	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Bl	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Bq	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Bv	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	C3	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	C8	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	CB	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	CJ	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	CO	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	CT	308/332 (93%)	303 (98%)	5 (2%)	55	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	CY	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Cd	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Ci	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Cn	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Cs	308/332 (93%)	303 (98%)	5 (2%)	55	73
13	Cx	308/332 (93%)	303 (98%)	5 (2%)	55	73
14	A4	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	A9	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	B2	183/215 (85%)	181 (99%)	2 (1%)	65	77
14	B8	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	BD	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	BI	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	BN	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	BS	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	BX	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Bc	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Bh	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Bm	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Br	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Bw	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	C4	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	C9	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	CC	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	CK	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	CP	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	CU	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	CZ	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Ce	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Cj	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Co	183/215 (85%)	180 (98%)	3 (2%)	55	73
14	Ct	183/215 (85%)	180 (98%)	3 (2%)	55	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
14	Cy	183/215 (85%)	180 (98%)	3 (2%)	55 73
15	A0	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	A5	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	B3	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	B9	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	BE	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	BJ	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	BO	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	BT	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	BY	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Bd	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Bi	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Bn	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Bs	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Bx	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	C0	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	C5	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	CD	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	CL	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	CQ	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	CV	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Ca	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Cf	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Ck	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Cp	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Cu	11/123 (9%)	10 (91%)	1 (9%)	9 32
15	Cz	11/123 (9%)	10 (91%)	1 (9%)	9 32
17	A7	224/285 (79%)	220 (98%)	4 (2%)	51 72
17	B5	224/285 (79%)	220 (98%)	4 (2%)	51 72
17	BB	224/285 (79%)	220 (98%)	4 (2%)	51 72
17	BG	224/285 (79%)	220 (98%)	4 (2%)	51 72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	BL	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	BQ	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	BV	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Ba	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Bf	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Bk	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Bp	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Bu	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Bz	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	C2	224/285 (79%)	219 (98%)	5 (2%)	45	69
17	C7	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CA	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CF	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CI	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CN	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CS	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	CX	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Cc	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Ch	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Cm	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Cr	224/285 (79%)	220 (98%)	4 (2%)	51	72
17	Cw	224/285 (79%)	220 (98%)	4 (2%)	51	72
18	CG	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DA	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DD	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DE	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DH	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DI	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DL	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DM	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DP	239/260 (92%)	227 (95%)	12 (5%)	22	53

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	DQ	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DT	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DU	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	DX	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	DY	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Db	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Dc	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Df	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Dg	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Dj	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Dk	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Dn	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Do	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Dr	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Ds	240/260 (92%)	231 (96%)	9 (4%)	29	60
18	Dv	239/260 (92%)	227 (95%)	12 (5%)	22	53
18	Dw	240/260 (92%)	231 (96%)	9 (4%)	29	60
19	DB	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	DC	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DF	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	DG	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DJ	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	DK	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DN	151/175 (86%)	145 (96%)	6 (4%)	28	59
19	DO	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DR	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	DS	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DV	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	DW	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	DZ	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	Da	151/175 (86%)	143 (95%)	8 (5%)	20	51

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	Dd	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	De	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	Dh	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	Di	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	Dl	151/175 (86%)	145 (96%)	6 (4%)	28	59
19	Dm	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	Dp	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	Dq	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	Dt	151/175 (86%)	144 (95%)	7 (5%)	24	56
19	Du	151/175 (86%)	143 (95%)	8 (5%)	20	51
19	Dx	151/175 (86%)	145 (96%)	6 (4%)	28	59
19	Dy	151/175 (86%)	143 (95%)	8 (5%)	20	51
All	All	60386/97839 (62%)	58279 (96%)	2107 (4%)	32	61

All (2107) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	20	TYR
1	0	23	ASP
1	0	174	LYS
1	0	176	ASN
2	1	127	GLN
2	1	146	MET
2	1	166	VAL
2	1	202	GLN
2	1	208	ASP
2	1	259	MET
2	2	86	THR
2	2	95	MET
2	2	149	VAL
2	2	214	LEU
2	2	220	THR
2	2	272	LEU
2	3	96	LEU
2	3	133	VAL
2	3	141	LEU
2	3	149	VAL
2	3	214	LEU

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Mol	Chain	Res	Type
3	4	1	MET
3	4	16	MET
3	4	55	LEU
3	5	45	ASN
3	5	64	LEU
3	5	72	MET
3	6	1	MET
3	6	7	VAL
3	6	14	LEU
3	6	42	THR
3	6	86	GLN
3	7	88	LEU
4	8	2	GLU
4	8	47	LEU
4	8	70	ARG
4	8	102	ILE
4	8	125	LEU
4	8	192	ILE
4	8	195	LEU
4	8	207	ARG
4	8	212	LEU
4	8	214	ILE
1	9	28	PHE
5	A	45	PHE
5	A	167	ASP
5	A	192	LEU
5	A	226	ASN
6	A1	53	THR
6	A1	67	PHE
6	A1	113	LYS
6	A1	137	VAL
6	A1	140	TYR
6	A1	319	THR
6	A1	320	THR
6	A1	323	LEU
6	A1	334	VAL
6	A1	351	LEU
6	A2	113	LYS
6	A2	137	VAL
6	A2	140	TYR
6	A2	319	THR
6	A2	320	THR

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Mol	Chain	Res	Type
6	A2	323	LEU
6	A2	334	VAL
6	A2	351	LEU
6	A3	16	LEU
6	A3	41	VAL
6	A3	51	LYS
6	A3	52	THR
6	A3	113	LYS
6	A3	137	VAL
6	A3	140	TYR
6	A3	319	THR
6	A3	320	THR
6	A3	323	LEU
6	A3	334	VAL
6	A3	351	LEU
7	AA	342	GLN
7	AB	342	GLN
7	AD	349	ILE
7	AF	346	ASP
7	AF	351	GLN
7	AF	352	ASP
7	AF	355	GLN
7	AH	342	GLN
7	AJ	349	ILE
7	AK	330	ASN
7	AK	331	MET
7	AK	332	VAL
7	AL	339	LEU
7	AN	339	LEU
7	AN	352	ASP
7	AO	330	ASN
5	AP	55	GLN
5	AP	106	THR
5	AP	109	ASP
5	AP	226	ASN
5	AQ	55	GLN
5	AQ	61	GLU
5	AQ	75	VAL
5	AQ	100	ASP
5	AQ	163	ARG
5	AQ	226	ASN
5	AQ	236	GLU

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Mol	Chain	Res	Type
5	AR	28	ASN
5	AR	38	ARG
5	AR	77	THR
5	AR	180	VAL
5	AR	192	LEU
5	AR	236	GLU
5	AS	77	THR
5	AS	146	ASP
5	AS	203	GLN
5	AS	219	MET
5	AS	226	ASN
5	AS	236	GLU
5	AT	28	ASN
5	AT	37	SER
5	AT	109	ASP
5	AT	192	LEU
5	AT	226	ASN
5	AT	236	GLU
5	AT	254	MET
5	AU	37	SER
5	AU	192	LEU
5	AU	226	ASN
5	AU	236	GLU
5	AV	28	ASN
5	AV	37	SER
5	AV	49	ILE
5	AV	141	ILE
5	AV	192	LEU
5	AV	226	ASN
5	AV	236	GLU
5	AW	43	ASP
5	AW	104	GLN
5	AW	151	THR
5	AW	168	ASN
5	AW	226	ASN
5	AX	43	ASP
5	AX	55	GLN
5	AX	91	ASN
5	AX	151	THR
5	AX	168	ASN
5	AX	226	ASN
5	AY	91	ASN

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Mol	Chain	Res	Type
5	AY	104	GLN
5	AY	148	ILE
5	AY	169	GLN
5	AY	226	ASN
5	AZ	1	MET
5	AZ	91	ASN
5	AZ	148	ILE
5	AZ	228	THR
5	AZ	235	ILE
5	Aa	1	MET
5	Aa	91	ASN
5	Aa	226	ASN
6	Ab	16	LEU
6	Ab	62	GLN
6	Ab	113	LYS
6	Ab	131	ASP
6	Ab	137	VAL
6	Ab	140	TYR
6	Ab	141	GLU
6	Ab	285	MET
6	Ab	319	THR
6	Ab	320	THR
6	Ab	323	LEU
6	Ab	327	ASP
6	Ab	334	VAL
6	Ab	351	LEU
6	Ab	430	GLN
6	Ac	16	LEU
6	Ac	28	THR
6	Ac	52	THR
6	Ac	53	THR
6	Ac	113	LYS
6	Ac	131	ASP
6	Ac	137	VAL
6	Ac	140	TYR
6	Ac	141	GLU
6	Ac	319	THR
6	Ac	320	THR
6	Ac	323	LEU
6	Ac	327	ASP
6	Ac	334	VAL
6	Ac	351	LEU

Continued on next page...

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Mol	Chain	Res	Type
6	Ac	406	LEU
6	Ac	430	GLN
6	Ad	16	LEU
6	Ad	28	THR
6	Ad	52	THR
6	Ad	91	VAL
6	Ad	113	LYS
6	Ad	129	GLN
6	Ad	131	ASP
6	Ad	137	VAL
6	Ad	140	TYR
6	Ad	141	GLU
6	Ad	239	ASP
6	Ad	320	THR
6	Ad	323	LEU
6	Ad	327	ASP
6	Ad	334	VAL
6	Ad	346	LEU
6	Ad	351	LEU
6	Ad	406	LEU
6	Ad	430	GLN
6	Ae	16	LEU
6	Ae	91	VAL
6	Ae	113	LYS
6	Ae	131	ASP
6	Ae	137	VAL
6	Ae	140	TYR
6	Ae	141	GLU
6	Ae	239	ASP
6	Ae	320	THR
6	Ae	323	LEU
6	Ae	327	ASP
6	Ae	334	VAL
6	Ae	346	LEU
6	Ae	351	LEU
6	Ae	406	LEU
6	Ae	430	GLN
6	Af	16	LEU
6	Af	28	THR
6	Af	113	LYS
6	Af	131	ASP
6	Af	137	VAL

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Mol	Chain	Res	Type
6	Af	140	TYR
6	Af	239	ASP
6	Af	320	THR
6	Af	323	LEU
6	Af	327	ASP
6	Af	334	VAL
6	Af	346	LEU
6	Af	351	LEU
6	Af	406	LEU
6	Af	430	GLN
6	Ag	16	LEU
6	Ag	28	THR
6	Ag	53	THR
6	Ag	113	LYS
6	Ag	131	ASP
6	Ag	137	VAL
6	Ag	320	THR
6	Ag	323	LEU
6	Ag	327	ASP
6	Ag	334	VAL
6	Ag	346	LEU
6	Ag	351	LEU
6	Ag	396	GLU
6	Ag	406	LEU
6	Ag	430	GLN
6	Ah	16	LEU
6	Ah	113	LYS
6	Ah	119	THR
6	Ah	131	ASP
6	Ah	137	VAL
6	Ah	285	MET
6	Ah	320	THR
6	Ah	323	LEU
6	Ah	327	ASP
6	Ah	334	VAL
6	Ah	346	LEU
6	Ah	351	LEU
6	Ah	396	GLU
6	Ah	406	LEU
6	Ah	409	LEU
6	Ah	420	SER
6	Ah	430	GLN

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Mol	Chain	Res	Type
6	Ah	433	ILE
6	Ai	16	LEU
6	Ai	53	THR
6	Ai	113	LYS
6	Ai	131	ASP
6	Ai	137	VAL
6	Ai	140	TYR
6	Ai	285	MET
6	Ai	319	THR
6	Ai	320	THR
6	Ai	323	LEU
6	Ai	334	VAL
6	Ai	346	LEU
6	Ai	351	LEU
6	Ai	406	LEU
6	Ai	430	GLN
6	Aj	16	LEU
6	Aj	53	THR
6	Aj	62	GLN
6	Aj	113	LYS
6	Aj	131	ASP
6	Aj	137	VAL
6	Aj	140	TYR
6	Aj	285	MET
6	Aj	319	THR
6	Aj	320	THR
6	Aj	323	LEU
6	Aj	334	VAL
6	Aj	346	LEU
6	Aj	351	LEU
6	Aj	430	GLN
6	Ak	16	LEU
6	Ak	62	GLN
6	Ak	106	ASN
6	Ak	113	LYS
6	Ak	131	ASP
6	Ak	137	VAL
6	Ak	140	TYR
6	Ak	184	ASP
6	Ak	285	MET
6	Ak	320	THR
6	Ak	323	LEU

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Mol	Chain	Res	Type
6	Ak	327	ASP
6	Ak	334	VAL
6	Ak	346	LEU
6	Ak	351	LEU
6	Ak	430	GLN
6	Al	16	LEU
6	Al	113	LYS
6	Al	137	VAL
6	Al	140	TYR
6	Al	184	ASP
6	Al	285	MET
6	Al	319	THR
6	Al	320	THR
6	Al	323	LEU
6	Al	327	ASP
6	Al	334	VAL
6	Al	346	LEU
6	Al	351	LEU
6	Al	409	LEU
6	Al	430	GLN
6	Am	16	LEU
6	Am	62	GLN
6	Am	106	ASN
6	Am	113	LYS
6	Am	137	VAL
6	Am	140	TYR
6	Am	285	MET
6	Am	319	THR
6	Am	320	THR
6	Am	323	LEU
6	Am	327	ASP
6	Am	334	VAL
6	Am	346	LEU
6	Am	351	LEU
6	Am	406	LEU
6	Am	430	GLN
6	An	16	LEU
6	An	91	VAL
6	An	113	LYS
6	An	137	VAL
6	An	140	TYR
6	An	184	ASP

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Mol	Chain	Res	Type
6	An	285	MET
6	An	319	THR
6	An	320	THR
6	An	323	LEU
6	An	327	ASP
6	An	334	VAL
6	An	351	LEU
6	Ao	16	LEU
6	Ao	46	LEU
6	Ao	48	THR
6	Ao	52	THR
6	Ao	62	GLN
6	Ao	91	VAL
6	Ao	113	LYS
6	Ao	137	VAL
6	Ao	140	TYR
6	Ao	184	ASP
6	Ao	320	THR
6	Ao	323	LEU
6	Ao	327	ASP
6	Ao	334	VAL
6	Ao	351	LEU
6	Ap	16	LEU
6	Ap	44	ASN
6	Ap	45	SER
6	Ap	49	ASN
6	Ap	51	LYS
6	Ap	91	VAL
6	Ap	113	LYS
6	Ap	115	ASN
6	Ap	131	ASP
6	Ap	137	VAL
6	Ap	140	TYR
6	Ap	184	ASP
6	Ap	285	MET
6	Ap	320	THR
6	Ap	323	LEU
6	Ap	327	ASP
6	Ap	334	VAL
6	Ap	346	LEU
6	Ap	351	LEU
6	Aq	16	LEU

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Mol	Chain	Res	Type
6	Aq	45	SER
6	Aq	51	LYS
6	Aq	52	THR
6	Aq	53	THR
6	Aq	73	ILE
6	Aq	91	VAL
6	Aq	113	LYS
6	Aq	131	ASP
6	Aq	137	VAL
6	Aq	140	TYR
6	Aq	209	LEU
6	Aq	319	THR
6	Aq	320	THR
6	Aq	323	LEU
6	Aq	327	ASP
6	Aq	334	VAL
6	Aq	346	LEU
6	Aq	351	LEU
6	Ar	16	LEU
6	Ar	44	ASN
6	Ar	46	LEU
6	Ar	48	THR
6	Ar	51	LYS
6	Ar	53	THR
6	Ar	62	GLN
6	Ar	91	VAL
6	Ar	113	LYS
6	Ar	137	VAL
6	Ar	140	TYR
6	Ar	209	LEU
6	Ar	285	MET
6	Ar	319	THR
6	Ar	320	THR
6	Ar	323	LEU
6	Ar	334	VAL
6	Ar	351	LEU
6	Ar	406	LEU
6	As	16	LEU
6	As	48	THR
6	As	51	LYS
6	As	62	GLN
6	As	113	LYS

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Mol	Chain	Res	Type
6	As	131	ASP
6	As	137	VAL
6	As	140	TYR
6	As	319	THR
6	As	320	THR
6	As	323	LEU
6	As	327	ASP
6	As	334	VAL
6	As	351	LEU
6	As	396	GLU
6	As	406	LEU
6	As	430	GLN
6	At	16	LEU
6	At	43	SER
6	At	51	LYS
6	At	62	GLN
6	At	91	VAL
6	At	113	LYS
6	At	131	ASP
6	At	137	VAL
6	At	140	TYR
6	At	319	THR
6	At	320	THR
6	At	323	LEU
6	At	327	ASP
6	At	334	VAL
6	At	346	LEU
6	At	351	LEU
6	At	396	GLU
6	At	406	LEU
6	Au	16	LEU
6	Au	43	SER
6	Au	44	ASN
6	Au	45	SER
6	Au	51	LYS
6	Au	99	GLN
6	Au	100	GLN
6	Au	113	LYS
6	Au	131	ASP
6	Au	137	VAL
6	Au	319	THR
6	Au	320	THR

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Mol	Chain	Res	Type
6	Au	323	LEU
6	Au	327	ASP
6	Au	334	VAL
6	Au	346	LEU
6	Au	396	GLU
6	Au	430	GLN
6	Av	16	LEU
6	Av	44	ASN
6	Av	45	SER
6	Av	47	PHE
6	Av	51	LYS
6	Av	52	THR
6	Av	62	GLN
6	Av	83	VAL
6	Av	99	GLN
6	Av	113	LYS
6	Av	131	ASP
6	Av	137	VAL
6	Av	140	TYR
6	Av	184	ASP
6	Av	319	THR
6	Av	320	THR
6	Av	323	LEU
6	Av	327	ASP
6	Av	334	VAL
6	Av	346	LEU
6	Av	351	LEU
6	Av	430	GLN
6	Aw	16	LEU
6	Aw	41	VAL
6	Aw	44	ASN
6	Aw	52	THR
6	Aw	59	GLN
6	Aw	99	GLN
6	Aw	113	LYS
6	Aw	131	ASP
6	Aw	137	VAL
6	Aw	140	TYR
6	Aw	319	THR
6	Aw	320	THR
6	Aw	323	LEU
6	Aw	327	ASP

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Mol	Chain	Res	Type
6	Aw	334	VAL
6	Aw	346	LEU
6	Aw	351	LEU
6	Aw	430	GLN
6	Ax	16	LEU
6	Ax	42	TYR
6	Ax	44	ASN
6	Ax	49	ASN
6	Ax	53	THR
6	Ax	62	GLN
6	Ax	113	LYS
6	Ax	137	VAL
6	Ax	140	TYR
6	Ax	184	ASP
6	Ax	319	THR
6	Ax	320	THR
6	Ax	323	LEU
6	Ax	334	VAL
6	Ax	351	LEU
6	Ax	372	GLN
6	Ax	396	GLU
6	Ay	16	LEU
6	Ay	43	SER
6	Ay	44	ASN
6	Ay	53	THR
6	Ay	62	GLN
6	Ay	113	LYS
6	Ay	137	VAL
6	Ay	140	TYR
6	Ay	184	ASP
6	Ay	319	THR
6	Ay	320	THR
6	Ay	323	LEU
6	Ay	334	VAL
6	Ay	351	LEU
6	Ay	396	GLU
6	Az	16	LEU
6	Az	51	LYS
6	Az	113	LYS
6	Az	137	VAL
6	Az	140	TYR
6	Az	184	ASP

Continued on next page...

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Mol	Chain	Res	Type
6	Az	319	THR
6	Az	320	THR
6	Az	334	VAL
6	Az	351	LEU
6	Az	353	ARG
5	B	12	LEU
5	B	42	GLU
5	B	45	PHE
5	B	104	GLN
5	B	165	GLN
5	C	31	THR
5	C	55	GLN
5	C	60	THR
5	C	109	ASP
5	C	112	ILE
5	C	259	ASN
5	C	262	LEU
6	D	16	LEU
6	D	44	ASN
6	D	53	THR
6	D	113	LYS
6	D	131	ASP
6	D	137	VAL
6	D	140	TYR
6	D	141	GLU
6	D	285	MET
6	D	319	THR
6	D	320	THR
6	D	323	LEU
6	D	334	VAL
6	D	351	LEU
6	D	409	LEU
6	D	430	GLN
6	E	16	LEU
6	E	53	THR
6	E	62	GLN
6	E	113	LYS
6	E	131	ASP
6	E	137	VAL
6	E	285	MET
6	E	320	THR
6	E	323	LEU

Continued on next page...

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Mol	Chain	Res	Type
6	E	334	VAL
6	E	351	LEU
6	E	376	ASP
6	E	396	GLU
6	E	400	ILE
6	E	425	VAL
6	E	430	GLN
6	F	16	LEU
6	F	28	THR
6	F	62	GLN
6	F	113	LYS
6	F	137	VAL
6	F	140	TYR
6	F	141	GLU
6	F	320	THR
6	F	323	LEU
6	F	327	ASP
6	F	334	VAL
6	F	351	LEU
6	F	376	ASP
6	F	430	GLN
6	G	16	LEU
6	G	53	THR
6	G	59	GLN
6	G	62	GLN
6	G	113	LYS
6	G	129	GLN
6	G	131	ASP
6	G	137	VAL
6	G	140	TYR
6	G	198	MET
6	G	320	THR
6	G	323	LEU
6	G	334	VAL
6	G	351	LEU
6	G	376	ASP
6	G	430	GLN
6	H	16	LEU
6	H	51	LYS
6	H	53	THR
6	H	59	GLN
6	H	62	GLN

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Mol	Chain	Res	Type
6	H	113	LYS
6	H	137	VAL
6	H	140	TYR
6	H	198	MET
6	H	320	THR
6	H	323	LEU
6	H	334	VAL
6	H	351	LEU
6	H	430	GLN
6	I	16	LEU
6	I	28	THR
6	I	53	THR
6	I	62	GLN
6	I	113	LYS
6	I	137	VAL
6	I	140	TYR
6	I	198	MET
6	I	319	THR
6	I	320	THR
6	I	323	LEU
6	I	327	ASP
6	I	334	VAL
6	I	346	LEU
6	I	351	LEU
6	I	396	GLU
6	I	430	GLN
6	J	16	LEU
6	J	28	THR
6	J	41	VAL
6	J	53	THR
6	J	113	LYS
6	J	115	ASN
6	J	137	VAL
6	J	140	TYR
6	J	319	THR
6	J	320	THR
6	J	323	LEU
6	J	334	VAL
6	J	351	LEU
6	J	420	SER
6	J	430	GLN
6	J	434	LEU

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Mol	Chain	Res	Type
6	K	16	LEU
6	K	28	THR
6	K	53	THR
6	K	73	ILE
6	K	99	GLN
6	K	113	LYS
6	K	131	ASP
6	K	137	VAL
6	K	140	TYR
6	K	141	GLU
6	K	198	MET
6	K	209	LEU
6	K	319	THR
6	K	320	THR
6	K	323	LEU
6	K	329	ASP
6	K	334	VAL
6	K	346	LEU
6	K	351	LEU
6	K	409	LEU
6	K	420	SER
6	K	430	GLN
6	L	16	LEU
6	L	28	THR
6	L	53	THR
6	L	73	ILE
6	L	83	VAL
6	L	113	LYS
6	L	131	ASP
6	L	137	VAL
6	L	140	TYR
6	L	141	GLU
6	L	209	LEU
6	L	319	THR
6	L	320	THR
6	L	323	LEU
6	L	329	ASP
6	L	334	VAL
6	L	346	LEU
6	L	351	LEU
6	L	376	ASP
6	L	430	GLN

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Mol	Chain	Res	Type
6	L	434	LEU
6	M	16	LEU
6	M	28	THR
6	M	41	VAL
6	M	53	THR
6	M	62	GLN
6	M	113	LYS
6	M	131	ASP
6	M	137	VAL
6	M	140	TYR
6	M	141	GLU
6	M	198	MET
6	M	209	LEU
6	M	319	THR
6	M	320	THR
6	M	323	LEU
6	M	327	ASP
6	M	329	ASP
6	M	334	VAL
6	M	346	LEU
6	M	351	LEU
6	M	376	ASP
6	M	430	GLN
6	N	16	LEU
6	N	28	THR
6	N	53	THR
6	N	62	GLN
6	N	113	LYS
6	N	131	ASP
6	N	137	VAL
6	N	140	TYR
6	N	141	GLU
6	N	198	MET
6	N	319	THR
6	N	320	THR
6	N	323	LEU
6	N	327	ASP
6	N	334	VAL
6	N	351	LEU
6	N	376	ASP
6	N	430	GLN
6	O	16	LEU

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Mol	Chain	Res	Type
6	O	53	THR
6	O	106	ASN
6	O	113	LYS
6	O	131	ASP
6	O	137	VAL
6	O	140	TYR
6	O	141	GLU
6	O	319	THR
6	O	320	THR
6	O	323	LEU
6	O	327	ASP
6	O	334	VAL
6	O	351	LEU
6	O	430	GLN
5	P	1	MET
5	P	9	LYS
5	P	43	ASP
5	P	55	GLN
5	P	91	ASN
5	P	203	GLN
5	P	226	ASN
5	Q	1	MET
5	Q	91	ASN
5	Q	104	GLN
5	Q	123	ASN
5	Q	151	THR
5	Q	226	ASN
5	R	43	ASP
5	R	91	ASN
5	R	104	GLN
5	R	151	THR
5	R	226	ASN
5	S	91	ASN
5	S	151	THR
5	S	166	GLN
5	S	169	GLN
5	S	226	ASN
5	T	1	MET
5	T	91	ASN
5	T	151	THR
5	T	165	GLN
5	T	168	ASN

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Mol	Chain	Res	Type
5	T	226	ASN
5	U	1	MET
5	U	59	ASN
5	U	89	THR
5	U	151	THR
5	U	166	GLN
5	U	226	ASN
5	V	1	MET
5	V	91	ASN
5	V	146	ASP
5	V	151	THR
5	V	166	GLN
5	V	226	ASN
5	W	61	GLU
5	W	91	ASN
5	W	151	THR
5	W	203	GLN
5	W	234	MET
5	W	260	GLN
5	X	1	MET
5	X	91	ASN
5	X	226	ASN
5	Y	43	ASP
5	Y	61	GLU
5	Y	91	ASN
5	Y	151	THR
5	Y	154	THR
5	Y	168	ASN
5	Y	226	ASN
5	Z	1	MET
5	Z	43	ASP
5	Z	91	ASN
5	Z	151	THR
5	Z	168	ASN
5	Z	201	ASP
5	a	16	GLN
5	a	91	ASN
5	a	180	VAL
5	a	206	VAL
5	a	210	ASP
5	a	216	ARG
5	a	226	ASN

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Mol	Chain	Res	Type
8	b	9	LEU
8	c	6	ASP
8	c	87	ASP
8	d	4	SER
8	d	6	ASP
8	d	7	ASN
8	e	6	ASP
8	e	7	ASN
8	e	88	THR
9	g	23	THR
9	g	39	LYS
9	g	53	LEU
9	g	65	VAL
9	g	134	GLN
9	h	3	LEU
9	h	34	VAL
9	h	65	VAL
9	h	67	VAL
9	i	36	SER
9	i	39	LYS
9	i	61	ASP
9	i	62	THR
9	i	67	VAL
9	i	84	ASP
9	i	113	ARG
9	i	131	ARG
9	j	53	LEU
9	j	61	ASP
9	j	65	VAL
9	j	67	VAL
9	j	126	LYS
9	k	14	MET
9	k	40	ASP
9	k	53	LEU
9	k	65	VAL
9	k	113	ARG
9	k	134	GLN
9	l	40	ASP
9	l	43	LYS
9	l	65	VAL
9	l	126	LYS
9	l	137	GLN

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Mol	Chain	Res	Type
10	m	7	LEU
10	m	60	GLU
10	m	72	ILE
10	m	135	LEU
10	m	218	LEU
10	n	60	GLU
10	n	72	ILE
10	n	158	PHE
10	n	162	ASP
10	n	200	GLN
10	n	204	ILE
10	o	72	ILE
10	o	73	THR
10	o	101	ARG
10	o	114	THR
10	o	158	PHE
10	o	229	VAL
10	p	72	ILE
10	p	135	LEU
10	q	72	ILE
10	q	73	THR
10	q	135	LEU
10	q	204	ILE
11	r	34	ASN
11	r	37	LEU
11	r	39	LYS
11	r	67	LEU
11	s	67	LEU
11	s	98	LEU
11	t	32	ASP
11	t	35	ASP
11	t	67	LEU
11	u	67	LEU
11	w	91	LEU
12	x	48	TRP
12	x	69	ARG
12	x	86	MET
2	y	86	THR
2	y	99	LEU
2	y	113	VAL
2	y	141	LEU
2	y	254	MET

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Mol	Chain	Res	Type
2	y	261	VAL
2	y	283	LEU
2	z	86	THR
2	z	87	LEU
2	z	113	VAL
2	z	128	THR
2	z	184	LEU
2	z	192	LEU
2	z	272	LEU
13	B7	28	VAL
13	B7	35	VAL
13	B7	71	LEU
13	B7	90	VAL
13	B7	139	MET
14	B8	51	ASP
14	B8	143	LEU
14	B8	145	ILE
15	B9	142	LEU
17	CA	122	THR
17	CA	141	VAL
17	CA	260	THR
17	CA	279	MET
13	CB	28	VAL
13	CB	35	VAL
13	CB	71	LEU
13	CB	90	VAL
13	CB	139	MET
14	CC	51	ASP
14	CC	143	LEU
14	CC	145	ILE
15	CD	142	LEU
17	CF	122	THR
17	CF	141	VAL
17	CF	260	THR
17	CF	279	MET
18	CG	67	LYS
18	CG	82	GLU
18	CG	121	THR
18	CG	173	LEU
18	CG	184	ILE
18	CG	201	ARG
18	CG	209	ILE

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Mol	Chain	Res	Type
18	CG	210	ARG
18	CG	224	THR
18	CG	256	ASP
18	CG	283	ARG
18	CG	290	ARG
15	A0	142	LEU
17	CI	122	THR
17	CI	141	VAL
17	CI	260	THR
17	CI	279	MET
13	CJ	28	VAL
13	CJ	35	VAL
13	CJ	71	LEU
13	CJ	90	VAL
13	CJ	139	MET
14	A4	51	ASP
14	A4	143	LEU
14	A4	145	ILE
15	A5	142	LEU
17	A7	122	THR
17	A7	141	VAL
17	A7	260	THR
17	A7	279	MET
13	A8	28	VAL
13	A8	35	VAL
13	A8	71	LEU
13	A8	90	VAL
13	A8	139	MET
14	A9	51	ASP
14	A9	143	LEU
14	A9	145	ILE
14	CK	51	ASP
14	CK	143	LEU
14	CK	145	ILE
15	CL	142	LEU
17	CN	122	THR
17	CN	141	VAL
17	CN	260	THR
17	CN	279	MET
13	CO	28	VAL
13	CO	35	VAL
13	CO	71	LEU

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Mol	Chain	Res	Type
13	CO	90	VAL
13	CO	139	MET
14	CP	51	ASP
14	CP	143	LEU
14	CP	145	ILE
15	CQ	142	LEU
17	CS	122	THR
17	CS	141	VAL
17	CS	260	THR
17	CS	279	MET
13	CT	28	VAL
13	CT	35	VAL
13	CT	71	LEU
13	CT	90	VAL
13	CT	139	MET
14	CU	51	ASP
14	CU	143	LEU
14	CU	145	ILE
15	CV	142	LEU
17	CX	122	THR
17	CX	141	VAL
17	CX	260	THR
17	CX	279	MET
13	CY	28	VAL
13	CY	35	VAL
13	CY	71	LEU
13	CY	90	VAL
13	CY	139	MET
14	CZ	51	ASP
14	CZ	143	LEU
14	CZ	145	ILE
15	Ca	142	LEU
17	Cc	122	THR
17	Cc	141	VAL
17	Cc	260	THR
17	Cc	279	MET
13	Cd	28	VAL
13	Cd	35	VAL
13	Cd	71	LEU
13	Cd	90	VAL
13	Cd	139	MET
14	Ce	51	ASP

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Mol	Chain	Res	Type
14	Ce	143	LEU
14	Ce	145	ILE
15	Cf	142	LEU
17	Ch	122	THR
17	Ch	141	VAL
17	Ch	260	THR
17	Ch	279	MET
13	Ci	28	VAL
13	Ci	35	VAL
13	Ci	71	LEU
13	Ci	90	VAL
13	Ci	139	MET
14	Cj	51	ASP
14	Cj	143	LEU
14	Cj	145	ILE
15	Ck	142	LEU
17	Cm	122	THR
17	Cm	141	VAL
17	Cm	260	THR
17	Cm	279	MET
13	Cn	28	VAL
13	Cn	35	VAL
13	Cn	71	LEU
13	Cn	90	VAL
13	Cn	139	MET
14	Co	51	ASP
14	Co	143	LEU
14	Co	145	ILE
15	Cp	142	LEU
17	Cr	122	THR
17	Cr	141	VAL
17	Cr	260	THR
17	Cr	279	MET
13	Cs	28	VAL
13	Cs	35	VAL
13	Cs	71	LEU
13	Cs	90	VAL
13	Cs	139	MET
14	Ct	51	ASP
14	Ct	143	LEU
14	Ct	145	ILE
15	Cu	142	LEU

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Mol	Chain	Res	Type
17	Cw	122	THR
17	Cw	141	VAL
17	Cw	260	THR
17	Cw	279	MET
13	Cx	28	VAL
13	Cx	35	VAL
13	Cx	71	LEU
13	Cx	90	VAL
13	Cx	139	MET
14	Cy	51	ASP
14	Cy	143	LEU
14	Cy	145	ILE
15	Cz	142	LEU
17	C2	59	SER
17	C2	122	THR
17	C2	141	VAL
17	C2	260	THR
17	C2	279	MET
13	C3	28	VAL
13	C3	35	VAL
13	C3	71	LEU
13	C3	90	VAL
13	C3	139	MET
14	C4	51	ASP
14	C4	143	LEU
14	C4	145	ILE
15	C5	142	LEU
17	C7	122	THR
17	C7	141	VAL
17	C7	260	THR
17	C7	279	MET
13	C8	28	VAL
13	C8	35	VAL
13	C8	71	LEU
13	C8	90	VAL
13	C8	139	MET
14	C9	51	ASP
14	C9	143	LEU
14	C9	145	ILE
15	C0	142	LEU
18	DA	107	LEU
18	DA	121	THR

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Mol	Chain	Res	Type
18	DA	127	SER
18	DA	193	GLN
18	DA	196	LYS
18	DA	216	ASP
18	DA	256	ASP
18	DA	265	LYS
18	DA	293	VAL
13	B1	65	SER
13	B1	139	MET
14	B2	143	LEU
14	B2	145	ILE
15	B3	142	LEU
17	B5	122	THR
17	B5	141	VAL
17	B5	260	THR
17	B5	279	MET
13	B6	28	VAL
13	B6	35	VAL
13	B6	71	LEU
13	B6	90	VAL
13	B6	139	MET
17	BB	122	THR
17	BB	141	VAL
17	BB	260	THR
17	BB	279	MET
13	BC	28	VAL
13	BC	35	VAL
13	BC	71	LEU
13	BC	90	VAL
13	BC	139	MET
14	BD	51	ASP
14	BD	143	LEU
14	BD	145	ILE
15	BE	142	LEU
17	BG	122	THR
17	BG	141	VAL
17	BG	260	THR
17	BG	279	MET
13	BH	28	VAL
13	BH	35	VAL
13	BH	71	LEU
13	BH	90	VAL

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Mol	Chain	Res	Type
13	BH	139	MET
14	BI	51	ASP
14	BI	143	LEU
14	BI	145	ILE
15	BJ	142	LEU
17	BL	122	THR
17	BL	141	VAL
17	BL	260	THR
17	BL	279	MET
13	BM	28	VAL
13	BM	35	VAL
13	BM	71	LEU
13	BM	90	VAL
13	BM	139	MET
14	BN	51	ASP
14	BN	143	LEU
14	BN	145	ILE
15	BO	142	LEU
17	BQ	122	THR
17	BQ	141	VAL
17	BQ	260	THR
17	BQ	279	MET
13	BR	28	VAL
13	BR	35	VAL
13	BR	71	LEU
13	BR	90	VAL
13	BR	139	MET
14	BS	51	ASP
14	BS	143	LEU
14	BS	145	ILE
15	BT	142	LEU
17	BV	122	THR
17	BV	141	VAL
17	BV	260	THR
17	BV	279	MET
13	BW	28	VAL
13	BW	35	VAL
13	BW	71	LEU
13	BW	90	VAL
13	BW	139	MET
14	BX	51	ASP
14	BX	143	LEU

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Mol	Chain	Res	Type
14	BX	145	ILE
15	BY	142	LEU
17	Ba	122	THR
17	Ba	141	VAL
17	Ba	260	THR
17	Ba	279	MET
13	Bb	28	VAL
13	Bb	35	VAL
13	Bb	71	LEU
13	Bb	90	VAL
13	Bb	139	MET
14	Bc	51	ASP
14	Bc	143	LEU
14	Bc	145	ILE
15	Bd	142	LEU
17	Bf	122	THR
17	Bf	141	VAL
17	Bf	260	THR
17	Bf	279	MET
13	Bg	28	VAL
13	Bg	35	VAL
13	Bg	71	LEU
13	Bg	90	VAL
13	Bg	139	MET
14	Bh	51	ASP
14	Bh	143	LEU
14	Bh	145	ILE
15	Bi	142	LEU
17	Bk	122	THR
17	Bk	141	VAL
17	Bk	260	THR
17	Bk	279	MET
13	Bl	28	VAL
13	Bl	35	VAL
13	Bl	71	LEU
13	Bl	90	VAL
13	Bl	139	MET
14	Bm	51	ASP
14	Bm	143	LEU
14	Bm	145	ILE
15	Bn	142	LEU
17	Bp	122	THR

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Mol	Chain	Res	Type
17	Bp	141	VAL
17	Bp	260	THR
17	Bp	279	MET
13	Bq	28	VAL
13	Bq	35	VAL
13	Bq	71	LEU
13	Bq	90	VAL
13	Bq	139	MET
14	Br	51	ASP
14	Br	143	LEU
14	Br	145	ILE
15	Bs	142	LEU
17	Bu	122	THR
17	Bu	141	VAL
17	Bu	260	THR
17	Bu	279	MET
13	Bv	28	VAL
13	Bv	35	VAL
13	Bv	71	LEU
13	Bv	90	VAL
13	Bv	139	MET
14	Bw	51	ASP
14	Bw	143	LEU
14	Bw	145	ILE
15	Bx	142	LEU
17	Bz	122	THR
17	Bz	141	VAL
17	Bz	260	THR
17	Bz	279	MET
19	DB	93	GLU
19	DB	96	LEU
19	DB	105	GLN
19	DB	124	VAL
19	DB	163	ASP
19	DB	193	GLU
19	DB	198	GLN
19	DC	105	GLN
19	DC	140	SER
19	DC	173	ASN
19	DC	180	ARG
19	DC	196	MET
19	DC	208	ASP

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Mol	Chain	Res	Type
19	DC	209	THR
19	DC	210	PHE
18	DD	67	LYS
18	DD	82	GLU
18	DD	121	THR
18	DD	173	LEU
18	DD	184	ILE
18	DD	201	ARG
18	DD	209	ILE
18	DD	210	ARG
18	DD	224	THR
18	DD	256	ASP
18	DD	283	ARG
18	DD	290	ARG
18	DE	107	LEU
18	DE	121	THR
18	DE	127	SER
18	DE	193	GLN
18	DE	196	LYS
18	DE	216	ASP
18	DE	256	ASP
18	DE	265	LYS
18	DE	293	VAL
19	DF	93	GLU
19	DF	96	LEU
19	DF	105	GLN
19	DF	124	VAL
19	DF	163	ASP
19	DF	193	GLU
19	DF	198	GLN
19	DG	105	GLN
19	DG	140	SER
19	DG	173	ASN
19	DG	180	ARG
19	DG	196	MET
19	DG	208	ASP
19	DG	209	THR
19	DG	210	PHE
18	DH	67	LYS
18	DH	82	GLU
18	DH	121	THR
18	DH	173	LEU

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Mol	Chain	Res	Type
18	DH	184	ILE
18	DH	201	ARG
18	DH	209	ILE
18	DH	210	ARG
18	DH	224	THR
18	DH	256	ASP
18	DH	283	ARG
18	DH	290	ARG
18	DI	107	LEU
18	DI	121	THR
18	DI	127	SER
18	DI	193	GLN
18	DI	196	LYS
18	DI	216	ASP
18	DI	256	ASP
18	DI	265	LYS
18	DI	293	VAL
19	DJ	93	GLU
19	DJ	96	LEU
19	DJ	105	GLN
19	DJ	124	VAL
19	DJ	163	ASP
19	DJ	193	GLU
19	DJ	198	GLN
19	DK	105	GLN
19	DK	140	SER
19	DK	173	ASN
19	DK	180	ARG
19	DK	196	MET
19	DK	208	ASP
19	DK	209	THR
19	DK	210	PHE
18	DL	67	LYS
18	DL	82	GLU
18	DL	121	THR
18	DL	173	LEU
18	DL	184	ILE
18	DL	201	ARG
18	DL	209	ILE
18	DL	210	ARG
18	DL	224	THR
18	DL	256	ASP

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Mol	Chain	Res	Type
18	DL	283	ARG
18	DL	290	ARG
18	DM	107	LEU
18	DM	121	THR
18	DM	127	SER
18	DM	193	GLN
18	DM	196	LYS
18	DM	216	ASP
18	DM	256	ASP
18	DM	265	LYS
18	DM	293	VAL
19	DN	96	LEU
19	DN	105	GLN
19	DN	124	VAL
19	DN	163	ASP
19	DN	193	GLU
19	DN	198	GLN
19	DO	105	GLN
19	DO	140	SER
19	DO	173	ASN
19	DO	180	ARG
19	DO	196	MET
19	DO	208	ASP
19	DO	209	THR
19	DO	210	PHE
18	DP	67	LYS
18	DP	82	GLU
18	DP	121	THR
18	DP	173	LEU
18	DP	184	ILE
18	DP	201	ARG
18	DP	209	ILE
18	DP	210	ARG
18	DP	224	THR
18	DP	256	ASP
18	DP	283	ARG
18	DP	290	ARG
18	DQ	107	LEU
18	DQ	121	THR
18	DQ	127	SER
18	DQ	193	GLN
18	DQ	196	LYS

Continued on next page...

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Mol	Chain	Res	Type
18	DQ	216	ASP
18	DQ	256	ASP
18	DQ	265	LYS
18	DQ	293	VAL
19	DR	93	GLU
19	DR	96	LEU
19	DR	105	GLN
19	DR	124	VAL
19	DR	163	ASP
19	DR	193	GLU
19	DR	198	GLN
19	DS	105	GLN
19	DS	140	SER
19	DS	173	ASN
19	DS	180	ARG
19	DS	196	MET
19	DS	208	ASP
19	DS	209	THR
19	DS	210	PHE
18	DT	67	LYS
18	DT	82	GLU
18	DT	121	THR
18	DT	173	LEU
18	DT	184	ILE
18	DT	201	ARG
18	DT	209	ILE
18	DT	210	ARG
18	DT	224	THR
18	DT	256	ASP
18	DT	283	ARG
18	DT	290	ARG
18	DU	107	LEU
18	DU	121	THR
18	DU	127	SER
18	DU	193	GLN
18	DU	196	LYS
18	DU	216	ASP
18	DU	256	ASP
18	DU	265	LYS
18	DU	293	VAL
19	DV	93	GLU
19	DV	96	LEU

Continued on next page...

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Mol	Chain	Res	Type
19	DV	105	GLN
19	DV	124	VAL
19	DV	163	ASP
19	DV	193	GLU
19	DV	198	GLN
19	DW	105	GLN
19	DW	140	SER
19	DW	173	ASN
19	DW	180	ARG
19	DW	196	MET
19	DW	208	ASP
19	DW	209	THR
19	DW	210	PHE
18	DX	67	LYS
18	DX	82	GLU
18	DX	121	THR
18	DX	173	LEU
18	DX	184	ILE
18	DX	201	ARG
18	DX	209	ILE
18	DX	210	ARG
18	DX	224	THR
18	DX	256	ASP
18	DX	283	ARG
18	DX	290	ARG
18	DY	107	LEU
18	DY	121	THR
18	DY	127	SER
18	DY	193	GLN
18	DY	196	LYS
18	DY	216	ASP
18	DY	256	ASP
18	DY	265	LYS
18	DY	293	VAL
19	DZ	93	GLU
19	DZ	96	LEU
19	DZ	105	GLN
19	DZ	124	VAL
19	DZ	163	ASP
19	DZ	193	GLU
19	DZ	198	GLN
19	Da	105	GLN

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Mol	Chain	Res	Type
19	Da	140	SER
19	Da	173	ASN
19	Da	180	ARG
19	Da	196	MET
19	Da	208	ASP
19	Da	209	THR
19	Da	210	PHE
18	Db	67	LYS
18	Db	82	GLU
18	Db	121	THR
18	Db	173	LEU
18	Db	184	ILE
18	Db	201	ARG
18	Db	209	ILE
18	Db	210	ARG
18	Db	224	THR
18	Db	256	ASP
18	Db	283	ARG
18	Db	290	ARG
18	Dc	107	LEU
18	Dc	121	THR
18	Dc	127	SER
18	Dc	193	GLN
18	Dc	196	LYS
18	Dc	216	ASP
18	Dc	256	ASP
18	Dc	265	LYS
18	Dc	293	VAL
19	Dd	93	GLU
19	Dd	96	LEU
19	Dd	105	GLN
19	Dd	124	VAL
19	Dd	163	ASP
19	Dd	193	GLU
19	Dd	198	GLN
19	De	105	GLN
19	De	140	SER
19	De	173	ASN
19	De	180	ARG
19	De	196	MET
19	De	208	ASP
19	De	209	THR

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Mol	Chain	Res	Type
19	De	210	PHE
18	Df	67	LYS
18	Df	82	GLU
18	Df	121	THR
18	Df	173	LEU
18	Df	184	ILE
18	Df	201	ARG
18	Df	209	ILE
18	Df	210	ARG
18	Df	224	THR
18	Df	256	ASP
18	Df	283	ARG
18	Df	290	ARG
18	Dg	107	LEU
18	Dg	121	THR
18	Dg	127	SER
18	Dg	193	GLN
18	Dg	196	LYS
18	Dg	216	ASP
18	Dg	256	ASP
18	Dg	265	LYS
18	Dg	293	VAL
19	Dh	93	GLU
19	Dh	96	LEU
19	Dh	105	GLN
19	Dh	124	VAL
19	Dh	163	ASP
19	Dh	193	GLU
19	Dh	198	GLN
19	Di	105	GLN
19	Di	140	SER
19	Di	173	ASN
19	Di	180	ARG
19	Di	196	MET
19	Di	208	ASP
19	Di	209	THR
19	Di	210	PHE
18	Dj	67	LYS
18	Dj	82	GLU
18	Dj	121	THR
18	Dj	173	LEU
18	Dj	184	ILE

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Mol	Chain	Res	Type
18	Dj	201	ARG
18	Dj	209	ILE
18	Dj	210	ARG
18	Dj	224	THR
18	Dj	256	ASP
18	Dj	283	ARG
18	Dj	290	ARG
18	Dk	107	LEU
18	Dk	121	THR
18	Dk	127	SER
18	Dk	193	GLN
18	Dk	196	LYS
18	Dk	216	ASP
18	Dk	256	ASP
18	Dk	265	LYS
18	Dk	293	VAL
19	Dl	96	LEU
19	Dl	105	GLN
19	Dl	124	VAL
19	Dl	163	ASP
19	Dl	193	GLU
19	Dl	198	GLN
19	Dm	105	GLN
19	Dm	140	SER
19	Dm	173	ASN
19	Dm	180	ARG
19	Dm	196	MET
19	Dm	208	ASP
19	Dm	209	THR
19	Dm	210	PHE
18	Dn	67	LYS
18	Dn	82	GLU
18	Dn	121	THR
18	Dn	173	LEU
18	Dn	184	ILE
18	Dn	201	ARG
18	Dn	209	ILE
18	Dn	210	ARG
18	Dn	224	THR
18	Dn	256	ASP
18	Dn	283	ARG
18	Dn	290	ARG

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Mol	Chain	Res	Type
18	Do	107	LEU
18	Do	121	THR
18	Do	127	SER
18	Do	193	GLN
18	Do	196	LYS
18	Do	216	ASP
18	Do	256	ASP
18	Do	265	LYS
18	Do	293	VAL
19	Dp	93	GLU
19	Dp	96	LEU
19	Dp	105	GLN
19	Dp	124	VAL
19	Dp	163	ASP
19	Dp	193	GLU
19	Dp	198	GLN
19	Dq	105	GLN
19	Dq	140	SER
19	Dq	173	ASN
19	Dq	180	ARG
19	Dq	196	MET
19	Dq	208	ASP
19	Dq	209	THR
19	Dq	210	PHE
18	Dr	67	LYS
18	Dr	82	GLU
18	Dr	121	THR
18	Dr	173	LEU
18	Dr	184	ILE
18	Dr	201	ARG
18	Dr	209	ILE
18	Dr	210	ARG
18	Dr	224	THR
18	Dr	256	ASP
18	Dr	283	ARG
18	Dr	290	ARG
18	Ds	107	LEU
18	Ds	121	THR
18	Ds	127	SER
18	Ds	193	GLN
18	Ds	196	LYS
18	Ds	216	ASP

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Mol	Chain	Res	Type
18	Ds	256	ASP
18	Ds	265	LYS
18	Ds	293	VAL
19	Dt	93	GLU
19	Dt	96	LEU
19	Dt	105	GLN
19	Dt	124	VAL
19	Dt	163	ASP
19	Dt	193	GLU
19	Dt	198	GLN
19	Du	105	GLN
19	Du	140	SER
19	Du	173	ASN
19	Du	180	ARG
19	Du	196	MET
19	Du	208	ASP
19	Du	209	THR
19	Du	210	PHE
18	Dv	67	LYS
18	Dv	82	GLU
18	Dv	121	THR
18	Dv	173	LEU
18	Dv	184	ILE
18	Dv	201	ARG
18	Dv	209	ILE
18	Dv	210	ARG
18	Dv	224	THR
18	Dv	256	ASP
18	Dv	283	ARG
18	Dv	290	ARG
18	Dw	107	LEU
18	Dw	121	THR
18	Dw	127	SER
18	Dw	193	GLN
18	Dw	196	LYS
18	Dw	216	ASP
18	Dw	256	ASP
18	Dw	265	LYS
18	Dw	293	VAL
19	Dx	96	LEU
19	Dx	105	GLN
19	Dx	124	VAL

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Mol	Chain	Res	Type
19	Dx	163	ASP
19	Dx	193	GLU
19	Dx	198	GLN
19	Dy	105	GLN
19	Dy	140	SER
19	Dy	173	ASN
19	Dy	180	ARG
19	Dy	196	MET
19	Dy	208	ASP
19	Dy	209	THR
19	Dy	210	PHE
7	Dz	280	VAL
7	Dz	380	THR
7	Dz	387	GLN
7	Dz	395	THR
7	Dz	422	GLU
7	D1	280	VAL
7	D1	380	THR
7	D1	387	GLN
7	D1	395	THR
7	D1	422	GLU
7	D2	280	VAL
7	D2	380	THR
7	D2	387	GLN
7	D2	395	THR
7	D2	422	GLU
7	D3	280	VAL
7	D3	380	THR
7	D3	387	GLN
7	D3	395	THR
7	D3	422	GLU
7	D4	280	VAL
7	D4	380	THR
7	D4	387	GLN
7	D4	395	THR
7	D4	422	GLU
7	D5	280	VAL
7	D5	380	THR
7	D5	387	GLN
7	D5	395	THR
7	D5	422	GLU
7	EG	280	VAL

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Mol	Chain	Res	Type
7	EG	380	THR
7	EG	387	GLN
7	EG	395	THR
7	EG	422	GLU
7	EH	280	VAL
7	EH	380	THR
7	EH	387	GLN
7	EH	395	THR
7	EH	422	GLU
7	EI	280	VAL
7	EI	380	THR
7	EI	387	GLN
7	EI	395	THR
7	EI	422	GLU
7	EJ	280	VAL
7	EJ	380	THR
7	EJ	387	GLN
7	EJ	395	THR
7	EJ	422	GLU
7	EK	280	VAL
7	EK	380	THR
7	EK	387	GLN
7	EK	395	THR
7	EK	422	GLU
7	EL	280	VAL
7	EL	380	THR
7	EL	387	GLN
7	EL	395	THR
7	EL	422	GLU
7	EM	280	VAL
7	EM	380	THR
7	EM	387	GLN
7	EM	395	THR
7	EM	422	GLU
7	EN	280	VAL
7	EN	380	THR
7	EN	387	GLN
7	EN	395	THR
7	EN	422	GLU
7	EO	280	VAL
7	EO	380	THR
7	EO	387	GLN

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Mol	Chain	Res	Type
7	EO	395	THR
7	EO	422	GLU
7	EP	280	VAL
7	EP	380	THR
7	EP	387	GLN
7	EP	395	THR
7	EP	422	GLU
7	EQ	280	VAL
7	EQ	380	THR
7	EQ	387	GLN
7	EQ	395	THR
7	EQ	422	GLU
7	ER	280	VAL
7	ER	380	THR
7	ER	387	GLN
7	ER	395	THR
7	ER	422	GLU
7	ES	280	VAL
7	ES	380	THR
7	ES	387	GLN
7	ES	395	THR
7	ES	422	GLU
7	ET	280	VAL
7	ET	380	THR
7	ET	387	GLN
7	ET	395	THR
7	ET	422	GLU
7	EU	280	VAL
7	EU	380	THR
7	EU	387	GLN
7	EU	395	THR
7	EU	422	GLU
7	EV	280	VAL
7	EV	380	THR
7	EV	387	GLN
7	EV	395	THR
7	EV	422	GLU
7	EW	280	VAL
7	EW	380	THR
7	EW	387	GLN
7	EW	395	THR
7	EW	422	GLU

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Mol	Chain	Res	Type
7	EX	144	GLN
7	EX	146	MET
7	EX	152	GLN
7	EX	153	ARG
7	EX	156	GLN
7	EX	174	MET
7	EX	203	VAL
7	EX	206	THR
7	EX	221	ILE
7	EX	241	ASP
7	EX	242	GLN
7	EX	246	LEU
7	EY	139	ASP
7	EY	144	GLN
7	EY	152	GLN
7	EY	156	GLN
7	EY	167	LEU
7	EY	173	GLU
7	EY	191	VAL
7	EY	193	VAL
7	EY	194	ARG
7	EY	196	ASN
7	EY	203	VAL
7	EY	206	THR
7	EY	240	THR
7	EY	246	LEU
7	EZ	144	GLN
7	EZ	167	LEU
7	EZ	173	GLU
7	EZ	193	VAL
7	EZ	194	ARG
7	EZ	196	ASN
7	EZ	203	VAL
7	EZ	221	ILE
7	EZ	240	THR
7	Ea	144	GLN
7	Ea	173	GLU
7	Ea	183	LEU
7	Ea	194	ARG
7	Ea	196	ASN
7	Ea	203	VAL
7	Ea	205	LEU

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Mol	Chain	Res	Type
7	Ea	206	THR
7	Ea	240	THR
7	Ea	242	GLN
7	Eb	139	ASP
7	Eb	144	GLN
7	Eb	156	GLN
7	Eb	173	GLU
7	Eb	174	MET
7	Eb	177	VAL
7	Eb	194	ARG
7	Eb	203	VAL
7	Eb	206	THR
7	Eb	221	ILE
7	Eb	222	VAL
7	Eb	242	GLN
7	Ec	139	ASP
7	Ec	156	GLN
7	Ec	173	GLU
7	Ec	174	MET
7	Ec	184	LEU
7	Ec	188	LYS
7	Ec	203	VAL
7	Ec	242	GLN
7	Ed	139	ASP
7	Ed	144	GLN
7	Ed	173	GLU
7	Ed	196	ASN
7	Ed	200	SER
7	Ed	203	VAL
7	Ed	206	THR
7	Ed	236	ARG
7	Ed	246	LEU
7	Ee	139	ASP
7	Ee	144	GLN
7	Ee	163	ARG
7	Ee	174	MET
7	Ee	206	THR
7	Ee	232	MET
7	Ee	234	THR
7	Ee	242	GLN
7	Ee	246	LEU
7	Ef	146	MET

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Mol	Chain	Res	Type
7	Ef	156	GLN
7	Ef	173	GLU
7	Ef	193	VAL
7	Ef	203	VAL
7	Eg	173	GLU
7	Eg	174	MET
7	Eg	206	THR
7	Eh	148	PHE
7	Eh	173	GLU
7	Eh	203	VAL
7	Eh	206	THR
7	Eh	241	ASP
7	Eh	246	LEU
7	Ei	156	GLN
7	Ei	169	GLN
7	Ei	173	GLU
7	Ei	174	MET
7	Ei	206	THR
7	Ei	236	ARG
7	Ei	237	ILE
7	Ei	242	GLN
7	Ei	246	LEU
7	Ej	148	PHE
7	Ej	156	GLN
7	Ej	173	GLU
7	Ej	182	VAL
7	Ej	188	LYS
7	Ej	191	VAL
7	Ej	197	GLN
7	Ej	202	SER
7	Ej	203	VAL
7	Ej	206	THR
7	Ej	224	MET
7	Ej	232	MET
7	Ek	156	GLN
7	Ek	173	GLU
7	Ek	203	VAL
7	Ek	219	ASP
7	El	156	GLN
7	El	173	GLU
7	El	203	VAL
7	El	205	LEU

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Mol	Chain	Res	Type
7	El	206	THR
7	El	236	ARG
7	El	246	LEU
7	Em	156	GLN
7	Em	173	GLU
7	Em	182	VAL
7	Em	224	MET
7	Em	246	LEU
7	En	152	GLN
7	En	173	GLU
7	En	182	VAL
7	En	203	VAL
7	En	206	THR
7	Eo	156	GLN
7	Eo	173	GLU
7	Eo	203	VAL
7	Eo	206	THR
7	Eo	234	THR
7	Eo	242	GLN
7	Ep	144	GLN
7	Ep	167	LEU
7	Ep	173	GLU
7	Ep	174	MET
7	Ep	203	VAL
7	Ep	206	THR
7	Ep	232	MET
7	Ep	234	THR
7	Ep	242	GLN
7	Ep	246	LEU
7	Eq	140	ASP
7	Eq	144	GLN
7	Eq	150	VAL
7	Eq	156	GLN
7	Eq	173	GLU
7	Eq	193	VAL
7	Eq	196	ASN
7	Eq	203	VAL
7	Eq	232	MET
7	Eq	242	GLN
7	Er	139	ASP
7	Er	156	GLN
7	Er	173	GLU

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Mol	Chain	Res	Type
7	Er	174	MET
7	Er	194	ARG
7	Er	203	VAL
7	Er	206	THR
7	Es	144	GLN
7	Es	173	GLU
7	Es	203	VAL
7	Es	206	THR
7	Es	214	LYS
7	Es	246	LEU
7	Et	144	GLN
7	Et	146	MET
7	Et	184	LEU
7	Et	234	THR
7	Et	246	LEU
7	Eu	280	VAL
7	Eu	380	THR
7	Eu	387	GLN
7	Eu	395	THR
7	Eu	422	GLU
7	Ev	280	VAL
7	Ev	380	THR
7	Ev	387	GLN
7	Ev	395	THR
7	Ev	422	GLU
7	Ew	280	VAL
7	Ew	380	THR
7	Ew	387	GLN
7	Ew	395	THR
7	Ew	422	GLU
7	Ex	280	VAL
7	Ex	380	THR
7	Ex	387	GLN
7	Ex	395	THR
7	Ex	422	GLU
7	Ey	280	VAL
7	Ey	380	THR
7	Ey	387	GLN
7	Ey	395	THR
7	Ey	422	GLU
7	Ez	280	VAL
7	Ez	380	THR

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Mol	Chain	Res	Type
7	Ez	387	GLN
7	Ez	395	THR
7	Ez	422	GLU
7	E1	280	VAL
7	E1	380	THR
7	E1	387	GLN
7	E1	395	THR
7	E1	422	GLU
7	E2	280	VAL
7	E2	380	THR
7	E2	387	GLN
7	E2	395	THR
7	E2	422	GLU
7	E3	280	VAL
7	E3	380	THR
7	E3	387	GLN
7	E3	395	THR
7	E3	422	GLU
7	E4	280	VAL
7	E4	380	THR
7	E4	387	GLN
7	E4	395	THR
7	E4	422	GLU
7	E5	280	VAL
7	E5	380	THR
7	E5	387	GLN
7	E5	395	THR
7	E5	422	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1904) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	41	ASN
1	0	118	ASN
1	0	182	ASN
2	1	88	GLN
2	1	127	GLN
2	1	228	GLN
2	2	127	GLN
2	3	186	GLN
2	3	205	ASN
3	4	47	GLN

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Mol	Chain	Res	Type
3	5	86	GLN
3	6	47	GLN
3	6	67	HIS
3	6	71	GLN
3	7	39	GLN
3	7	67	HIS
4	8	90	GLN
4	8	106	GLN
4	8	149	GLN
4	8	182	GLN
4	8	199	ASN
4	8	211	GLN
1	9	182	ASN
5	A	15	GLN
5	A	16	GLN
5	A	28	ASN
5	A	58	GLN
5	A	104	GLN
5	A	168	ASN
5	A	190	GLN
5	A	191	ASN
5	A	217	GLN
5	A	226	ASN
6	A1	13	GLN
6	A1	21	ASN
6	A1	27	ASN
6	A1	77	ASN
6	A1	99	GLN
6	A1	110	HIS
6	A1	129	GLN
6	A1	143	GLN
6	A1	146	ASN
6	A1	156	GLN
6	A1	187	ASN
6	A1	200	GLN
6	A1	234	ASN
6	A1	246	HIS
6	A1	372	GLN
6	A1	413	GLN
6	A1	419	ASN
6	A1	427	ASN
6	A1	428	GLN

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Mol	Chain	Res	Type
6	A1	435	GLN
6	A2	21	ASN
6	A2	22	ASN
6	A2	44	ASN
6	A2	49	ASN
6	A2	99	GLN
6	A2	129	GLN
6	A2	146	ASN
6	A2	200	GLN
6	A2	246	HIS
6	A2	254	ASN
6	A2	286	ASN
6	A2	372	GLN
6	A2	391	ASN
6	A2	413	GLN
6	A2	415	ASN
6	A2	427	ASN
6	A2	428	GLN
6	A2	430	GLN
6	A2	431	GLN
6	A2	435	GLN
6	A3	21	ASN
6	A3	44	ASN
6	A3	49	ASN
6	A3	99	GLN
6	A3	110	HIS
6	A3	129	GLN
6	A3	200	GLN
6	A3	219	ASN
6	A3	234	ASN
6	A3	286	ASN
6	A3	372	GLN
6	A3	391	ASN
6	A3	413	GLN
6	A3	415	ASN
6	A3	428	GLN
6	A3	430	GLN
6	A3	435	GLN
7	AD	341	ASN
7	AD	351	GLN
7	AF	342	GLN
7	AH	342	GLN

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Mol	Chain	Res	Type
7	AK	330	ASN
7	AL	341	ASN
7	AL	351	GLN
7	AM	341	ASN
7	AN	342	GLN
7	AO	330	ASN
7	AO	355	GLN
5	AP	24	ASN
5	AP	47	GLN
5	AP	51	GLN
5	AP	87	GLN
5	AP	119	GLN
5	AP	191	ASN
5	AP	217	GLN
5	AP	259	ASN
5	AQ	24	ASN
5	AQ	51	GLN
5	AQ	58	GLN
5	AQ	81	HIS
5	AQ	104	GLN
5	AQ	165	GLN
5	AQ	168	ASN
5	AQ	191	ASN
5	AQ	203	GLN
5	AQ	217	GLN
5	AQ	226	ASN
5	AR	2	HIS
5	AR	16	GLN
5	AR	24	ASN
5	AR	87	GLN
5	AR	104	GLN
5	AR	165	GLN
5	AR	190	GLN
5	AR	191	ASN
5	AR	203	GLN
5	AR	217	GLN
5	AR	226	ASN
5	AR	260	GLN
5	AS	2	HIS
5	AS	16	GLN
5	AS	24	ASN
5	AS	25	ASN

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Mol	Chain	Res	Type
5	AS	50	ASN
5	AS	81	HIS
5	AS	87	GLN
5	AS	104	GLN
5	AS	165	GLN
5	AS	168	ASN
5	AS	203	GLN
5	AS	217	GLN
5	AS	260	GLN
5	AT	16	GLN
5	AT	24	ASN
5	AT	47	GLN
5	AT	51	GLN
5	AT	87	GLN
5	AT	104	GLN
5	AT	165	GLN
5	AT	191	ASN
5	AT	217	GLN
5	AT	226	ASN
5	AT	260	GLN
5	AU	16	GLN
5	AU	24	ASN
5	AU	87	GLN
5	AU	104	GLN
5	AU	165	GLN
5	AU	190	GLN
5	AU	191	ASN
5	AU	217	GLN
5	AU	226	ASN
5	AU	260	GLN
5	AV	2	HIS
5	AV	16	GLN
5	AV	24	ASN
5	AV	25	ASN
5	AV	47	GLN
5	AV	87	GLN
5	AV	104	GLN
5	AV	119	GLN
5	AV	165	GLN
5	AV	168	ASN
5	AV	217	GLN
5	AV	260	GLN

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Mol	Chain	Res	Type
5	AW	16	GLN
5	AW	18	ASN
5	AW	24	ASN
5	AW	28	ASN
5	AW	47	GLN
5	AW	51	GLN
5	AW	91	ASN
5	AW	104	GLN
5	AW	123	ASN
5	AW	165	GLN
5	AW	166	GLN
5	AW	169	GLN
5	AW	191	ASN
5	AW	217	GLN
5	AW	226	ASN
5	AW	260	GLN
5	AW	261	GLN
5	AX	24	ASN
5	AX	28	ASN
5	AX	47	GLN
5	AX	51	GLN
5	AX	87	GLN
5	AX	91	ASN
5	AX	111	ASN
5	AX	166	GLN
5	AX	191	ASN
5	AX	217	GLN
5	AX	260	GLN
5	AX	261	GLN
5	AY	15	GLN
5	AY	16	GLN
5	AY	18	ASN
5	AY	24	ASN
5	AY	47	GLN
5	AY	50	ASN
5	AY	51	GLN
5	AY	58	GLN
5	AY	78	GLN
5	AY	83	HIS
5	AY	91	ASN
5	AY	111	ASN
5	AY	123	ASN

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Mol	Chain	Res	Type
5	AY	165	GLN
5	AY	166	GLN
5	AY	169	GLN
5	AY	190	GLN
5	AY	217	GLN
5	AY	226	ASN
5	AY	260	GLN
5	AY	261	GLN
5	AZ	15	GLN
5	AZ	16	GLN
5	AZ	18	ASN
5	AZ	24	ASN
5	AZ	47	GLN
5	AZ	51	GLN
5	AZ	58	GLN
5	AZ	91	ASN
5	AZ	104	GLN
5	AZ	111	ASN
5	AZ	119	GLN
5	AZ	123	ASN
5	AZ	165	GLN
5	AZ	169	GLN
5	AZ	190	GLN
5	AZ	203	GLN
5	AZ	217	GLN
5	AZ	226	ASN
5	AZ	260	GLN
5	Aa	15	GLN
5	Aa	16	GLN
5	Aa	18	ASN
5	Aa	24	ASN
5	Aa	28	ASN
5	Aa	47	GLN
5	Aa	50	ASN
5	Aa	51	GLN
5	Aa	58	GLN
5	Aa	91	ASN
5	Aa	104	GLN
5	Aa	111	ASN
5	Aa	165	GLN
5	Aa	166	GLN
5	Aa	169	GLN

Continued on next page...

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Mol	Chain	Res	Type
5	Aa	190	GLN
5	Aa	191	ASN
5	Aa	217	GLN
5	Aa	226	ASN
5	Aa	260	GLN
5	Aa	261	GLN
6	Ab	21	ASN
6	Ab	62	GLN
6	Ab	76	ASN
6	Ab	77	ASN
6	Ab	99	GLN
6	Ab	110	HIS
6	Ab	129	GLN
6	Ab	143	GLN
6	Ab	200	GLN
6	Ab	234	ASN
6	Ab	246	HIS
6	Ab	343	ASN
6	Ab	372	GLN
6	Ab	391	ASN
6	Ab	417	GLN
6	Ab	428	GLN
6	Ab	435	GLN
6	Ac	21	ASN
6	Ac	62	GLN
6	Ac	77	ASN
6	Ac	99	GLN
6	Ac	129	GLN
6	Ac	143	GLN
6	Ac	200	GLN
6	Ac	234	ASN
6	Ac	246	HIS
6	Ac	343	ASN
6	Ac	372	GLN
6	Ac	391	ASN
6	Ac	428	GLN
6	Ac	435	GLN
6	Ad	21	ASN
6	Ad	62	GLN
6	Ad	99	GLN
6	Ad	129	GLN
6	Ad	143	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	Ad	200	GLN
6	Ad	234	ASN
6	Ad	246	HIS
6	Ad	303	GLN
6	Ad	343	ASN
6	Ad	356	ASN
6	Ad	372	GLN
6	Ad	391	ASN
6	Ad	397	GLN
6	Ad	417	GLN
6	Ad	428	GLN
6	Ad	430	GLN
6	Ad	435	GLN
6	Ae	21	ASN
6	Ae	27	ASN
6	Ae	62	GLN
6	Ae	99	GLN
6	Ae	129	GLN
6	Ae	143	GLN
6	Ae	200	GLN
6	Ae	246	HIS
6	Ae	303	GLN
6	Ae	343	ASN
6	Ae	356	ASN
6	Ae	372	GLN
6	Ae	391	ASN
6	Ae	417	GLN
6	Ae	428	GLN
6	Ae	430	GLN
6	Ae	435	GLN
6	Af	21	ASN
6	Af	44	ASN
6	Af	62	GLN
6	Af	129	GLN
6	Af	143	GLN
6	Af	200	GLN
6	Af	303	GLN
6	Af	343	ASN
6	Af	372	GLN
6	Af	391	ASN
6	Af	404	GLN
6	Af	428	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	Af	435	GLN
6	Ag	21	ASN
6	Ag	62	GLN
6	Ag	99	GLN
6	Ag	129	GLN
6	Ag	143	GLN
6	Ag	200	GLN
6	Ag	234	ASN
6	Ag	303	GLN
6	Ag	343	ASN
6	Ag	372	GLN
6	Ag	391	ASN
6	Ag	404	GLN
6	Ag	428	GLN
6	Ag	430	GLN
6	Ag	435	GLN
6	Ah	21	ASN
6	Ah	44	ASN
6	Ah	62	GLN
6	Ah	99	GLN
6	Ah	129	GLN
6	Ah	143	GLN
6	Ah	200	GLN
6	Ah	234	ASN
6	Ah	303	GLN
6	Ah	343	ASN
6	Ah	372	GLN
6	Ah	391	ASN
6	Ah	428	GLN
6	Ah	435	GLN
6	Ai	21	ASN
6	Ai	44	ASN
6	Ai	62	GLN
6	Ai	76	ASN
6	Ai	129	GLN
6	Ai	200	GLN
6	Ai	219	ASN
6	Ai	234	ASN
6	Ai	303	GLN
6	Ai	343	ASN
6	Ai	372	GLN
6	Ai	391	ASN

Continued on next page...

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Mol	Chain	Res	Type
6	Ai	428	GLN
6	Ai	432	ASN
6	Ai	435	GLN
6	Aj	21	ASN
6	Aj	44	ASN
6	Aj	62	GLN
6	Aj	99	GLN
6	Aj	129	GLN
6	Aj	200	GLN
6	Aj	234	ASN
6	Aj	246	HIS
6	Aj	343	ASN
6	Aj	356	ASN
6	Aj	372	GLN
6	Aj	391	ASN
6	Aj	417	GLN
6	Aj	428	GLN
6	Aj	435	GLN
6	Ak	13	GLN
6	Ak	21	ASN
6	Ak	62	GLN
6	Ak	99	GLN
6	Ak	129	GLN
6	Ak	200	GLN
6	Ak	343	ASN
6	Ak	372	GLN
6	Ak	391	ASN
6	Ak	417	GLN
6	Ak	428	GLN
6	Ak	432	ASN
6	Ak	435	GLN
6	Al	21	ASN
6	Al	62	GLN
6	Al	99	GLN
6	Al	110	HIS
6	Al	129	GLN
6	Al	156	GLN
6	Al	200	GLN
6	Al	219	ASN
6	Al	246	HIS
6	Al	343	ASN
6	Al	372	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Al	391	ASN
6	Al	404	GLN
6	Al	417	GLN
6	Al	428	GLN
6	Al	430	GLN
6	Al	435	GLN
6	Am	21	ASN
6	Am	62	GLN
6	Am	77	ASN
6	Am	106	ASN
6	Am	129	GLN
6	Am	200	GLN
6	Am	343	ASN
6	Am	372	GLN
6	Am	391	ASN
6	Am	428	GLN
6	Am	430	GLN
6	Am	432	ASN
6	Am	435	GLN
6	An	21	ASN
6	An	62	GLN
6	An	77	ASN
6	An	110	HIS
6	An	129	GLN
6	An	200	GLN
6	An	246	HIS
6	An	343	ASN
6	An	372	GLN
6	An	391	ASN
6	An	417	GLN
6	An	428	GLN
6	An	435	GLN
6	Ao	21	ASN
6	Ao	27	ASN
6	Ao	49	ASN
6	Ao	62	GLN
6	Ao	77	ASN
6	Ao	110	HIS
6	Ao	129	GLN
6	Ao	143	GLN
6	Ao	200	GLN
6	Ao	234	ASN

Continued on next page...

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Mol	Chain	Res	Type
6	Ao	303	GLN
6	Ao	343	ASN
6	Ao	372	GLN
6	Ao	391	ASN
6	Ao	417	GLN
6	Ao	428	GLN
6	Ao	435	GLN
6	Ap	21	ASN
6	Ap	27	ASN
6	Ap	62	GLN
6	Ap	77	ASN
6	Ap	99	GLN
6	Ap	129	GLN
6	Ap	143	GLN
6	Ap	200	GLN
6	Ap	214	GLN
6	Ap	241	GLN
6	Ap	343	ASN
6	Ap	372	GLN
6	Ap	391	ASN
6	Ap	417	GLN
6	Ap	428	GLN
6	Ap	435	GLN
6	Aq	21	ASN
6	Aq	62	GLN
6	Aq	129	GLN
6	Aq	143	GLN
6	Aq	200	GLN
6	Aq	343	ASN
6	Aq	372	GLN
6	Aq	391	ASN
6	Aq	428	GLN
6	Aq	435	GLN
6	Ar	21	ASN
6	Ar	44	ASN
6	Ar	62	GLN
6	Ar	99	GLN
6	Ar	129	GLN
6	Ar	143	GLN
6	Ar	200	GLN
6	Ar	343	ASN
6	Ar	372	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	Ar	391	ASN
6	Ar	417	GLN
6	Ar	428	GLN
6	Ar	435	GLN
6	As	49	ASN
6	As	59	GLN
6	As	62	GLN
6	As	77	ASN
6	As	99	GLN
6	As	129	GLN
6	As	143	GLN
6	As	146	ASN
6	As	200	GLN
6	As	343	ASN
6	As	372	GLN
6	As	391	ASN
6	As	417	GLN
6	As	428	GLN
6	As	435	GLN
6	At	21	ASN
6	At	49	ASN
6	At	59	GLN
6	At	62	GLN
6	At	99	GLN
6	At	129	GLN
6	At	143	GLN
6	At	146	ASN
6	At	200	GLN
6	At	286	ASN
6	At	343	ASN
6	At	372	GLN
6	At	391	ASN
6	At	428	GLN
6	At	430	GLN
6	At	435	GLN
6	Au	21	ASN
6	Au	49	ASN
6	Au	59	GLN
6	Au	62	GLN
6	Au	129	GLN
6	Au	146	ASN
6	Au	200	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Au	234	ASN
6	Au	372	GLN
6	Au	391	ASN
6	Au	428	GLN
6	Au	435	GLN
6	Av	13	GLN
6	Av	21	ASN
6	Av	49	ASN
6	Av	59	GLN
6	Av	62	GLN
6	Av	100	GLN
6	Av	129	GLN
6	Av	200	GLN
6	Av	214	GLN
6	Av	234	ASN
6	Av	246	HIS
6	Av	343	ASN
6	Av	372	GLN
6	Av	391	ASN
6	Av	428	GLN
6	Av	435	GLN
6	Aw	21	ASN
6	Aw	44	ASN
6	Aw	49	ASN
6	Aw	59	GLN
6	Aw	62	GLN
6	Aw	77	ASN
6	Aw	99	GLN
6	Aw	129	GLN
6	Aw	156	GLN
6	Aw	200	GLN
6	Aw	343	ASN
6	Aw	372	GLN
6	Aw	391	ASN
6	Aw	428	GLN
6	Aw	435	GLN
6	Ax	13	GLN
6	Ax	21	ASN
6	Ax	44	ASN
6	Ax	49	ASN
6	Ax	62	GLN
6	Ax	99	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	Ax	129	GLN
6	Ax	156	GLN
6	Ax	200	GLN
6	Ax	214	GLN
6	Ax	234	ASN
6	Ax	246	HIS
6	Ax	343	ASN
6	Ax	391	ASN
6	Ax	426	HIS
6	Ax	427	ASN
6	Ax	428	GLN
6	Ax	431	GLN
6	Ax	432	ASN
6	Ax	435	GLN
6	Ay	13	GLN
6	Ay	21	ASN
6	Ay	99	GLN
6	Ay	129	GLN
6	Ay	156	GLN
6	Ay	187	ASN
6	Ay	200	GLN
6	Ay	234	ASN
6	Ay	246	HIS
6	Ay	343	ASN
6	Ay	372	GLN
6	Ay	391	ASN
6	Ay	415	ASN
6	Ay	426	HIS
6	Ay	427	ASN
6	Ay	428	GLN
6	Ay	431	GLN
6	Ay	435	GLN
6	Az	21	ASN
6	Az	27	ASN
6	Az	49	ASN
6	Az	59	GLN
6	Az	99	GLN
6	Az	129	GLN
6	Az	143	GLN
6	Az	156	GLN
6	Az	187	ASN
6	Az	200	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	Az	234	ASN
6	Az	246	HIS
6	Az	372	GLN
6	Az	391	ASN
6	Az	415	ASN
6	Az	417	GLN
6	Az	427	ASN
6	Az	428	GLN
6	Az	431	GLN
6	Az	435	GLN
5	B	24	ASN
5	B	48	ASN
5	B	55	GLN
5	B	104	GLN
5	B	181	ASN
5	B	203	GLN
5	B	217	GLN
5	B	238	GLN
5	B	244	ASN
5	C	28	ASN
5	C	51	GLN
5	C	104	GLN
5	C	166	GLN
5	C	169	GLN
5	C	190	GLN
5	C	217	GLN
5	C	226	ASN
6	D	44	ASN
6	D	62	GLN
6	D	99	GLN
6	D	129	GLN
6	D	143	GLN
6	D	200	GLN
6	D	234	ASN
6	D	372	GLN
6	D	391	ASN
6	D	404	GLN
6	D	428	GLN
6	D	435	GLN
6	E	44	ASN
6	E	62	GLN
6	E	110	HIS

Continued on next page...

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Mol	Chain	Res	Type
6	E	129	GLN
6	E	143	GLN
6	E	200	GLN
6	E	234	ASN
6	E	372	GLN
6	E	391	ASN
6	E	397	GLN
6	E	426	HIS
6	E	428	GLN
6	E	430	GLN
6	E	435	GLN
6	F	21	ASN
6	F	62	GLN
6	F	106	ASN
6	F	110	HIS
6	F	129	GLN
6	F	143	GLN
6	F	200	GLN
6	F	356	ASN
6	F	372	GLN
6	F	391	ASN
6	F	428	GLN
6	F	435	GLN
6	G	62	GLN
6	G	65	GLN
6	G	129	GLN
6	G	143	GLN
6	G	200	GLN
6	G	234	ASN
6	G	246	HIS
6	G	372	GLN
6	G	391	ASN
6	G	397	GLN
6	G	428	GLN
6	G	430	GLN
6	G	435	GLN
6	H	62	GLN
6	H	99	GLN
6	H	129	GLN
6	H	143	GLN
6	H	200	GLN
6	H	356	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	H	372	GLN
6	H	391	ASN
6	H	428	GLN
6	H	430	GLN
6	H	435	GLN
6	I	21	ASN
6	I	22	ASN
6	I	62	GLN
6	I	76	ASN
6	I	99	GLN
6	I	110	HIS
6	I	129	GLN
6	I	143	GLN
6	I	200	GLN
6	I	234	ASN
6	I	246	HIS
6	I	263	ASN
6	I	331	ASN
6	I	356	ASN
6	I	372	GLN
6	I	391	ASN
6	I	397	GLN
6	I	417	GLN
6	I	428	GLN
6	I	430	GLN
6	I	435	GLN
6	J	21	ASN
6	J	62	GLN
6	J	99	GLN
6	J	129	GLN
6	J	143	GLN
6	J	200	GLN
6	J	234	ASN
6	J	246	HIS
6	J	263	ASN
6	J	331	ASN
6	J	372	GLN
6	J	391	ASN
6	J	397	GLN
6	J	417	GLN
6	J	428	GLN
6	J	430	GLN

Continued on next page...

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Mol	Chain	Res	Type
6	J	435	GLN
6	K	21	ASN
6	K	62	GLN
6	K	99	GLN
6	K	106	ASN
6	K	110	HIS
6	K	129	GLN
6	K	143	GLN
6	K	200	GLN
6	K	246	HIS
6	K	263	ASN
6	K	356	ASN
6	K	372	GLN
6	K	391	ASN
6	K	397	GLN
6	K	417	GLN
6	K	428	GLN
6	K	435	GLN
6	L	27	ASN
6	L	62	GLN
6	L	76	ASN
6	L	99	GLN
6	L	110	HIS
6	L	129	GLN
6	L	200	GLN
6	L	214	GLN
6	L	234	ASN
6	L	263	ASN
6	L	372	GLN
6	L	391	ASN
6	L	417	GLN
6	L	428	GLN
6	L	430	GLN
6	L	435	GLN
6	M	21	ASN
6	M	62	GLN
6	M	76	ASN
6	M	99	GLN
6	M	110	HIS
6	M	129	GLN
6	M	143	GLN
6	M	200	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	M	356	ASN
6	M	372	GLN
6	M	391	ASN
6	M	397	GLN
6	M	417	GLN
6	M	428	GLN
6	M	435	GLN
6	N	21	ASN
6	N	62	GLN
6	N	76	ASN
6	N	77	ASN
6	N	99	GLN
6	N	129	GLN
6	N	143	GLN
6	N	159	ASN
6	N	200	GLN
6	N	246	HIS
6	N	356	ASN
6	N	372	GLN
6	N	391	ASN
6	N	397	GLN
6	N	417	GLN
6	N	428	GLN
6	N	430	GLN
6	N	435	GLN
6	O	21	ASN
6	O	62	GLN
6	O	77	ASN
6	O	99	GLN
6	O	106	ASN
6	O	110	HIS
6	O	129	GLN
6	O	143	GLN
6	O	156	GLN
6	O	200	GLN
6	O	234	ASN
6	O	246	HIS
6	O	372	GLN
6	O	391	ASN
6	O	417	GLN
6	O	428	GLN
6	O	435	GLN

Continued on next page...

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Mol	Chain	Res	Type
5	P	16	GLN
5	P	18	ASN
5	P	24	ASN
5	P	28	ASN
5	P	47	GLN
5	P	50	ASN
5	P	51	GLN
5	P	83	HIS
5	P	91	ASN
5	P	111	ASN
5	P	119	GLN
5	P	165	GLN
5	P	166	GLN
5	P	169	GLN
5	P	181	ASN
5	P	191	ASN
5	P	217	GLN
5	P	226	ASN
5	P	260	GLN
5	P	261	GLN
5	Q	16	GLN
5	Q	18	ASN
5	Q	28	ASN
5	Q	47	GLN
5	Q	51	GLN
5	Q	58	GLN
5	Q	78	GLN
5	Q	83	HIS
5	Q	91	ASN
5	Q	119	GLN
5	Q	123	ASN
5	Q	165	GLN
5	Q	169	GLN
5	Q	190	GLN
5	Q	217	GLN
5	Q	226	ASN
5	Q	260	GLN
5	Q	261	GLN
5	R	18	ASN
5	R	24	ASN
5	R	28	ASN
5	R	47	GLN

Continued on next page...

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Mol	Chain	Res	Type
5	R	51	GLN
5	R	58	GLN
5	R	87	GLN
5	R	91	ASN
5	R	119	GLN
5	R	165	GLN
5	R	166	GLN
5	R	168	ASN
5	R	169	GLN
5	R	217	GLN
5	R	260	GLN
5	R	261	GLN
5	S	24	ASN
5	S	28	ASN
5	S	47	GLN
5	S	51	GLN
5	S	58	GLN
5	S	83	HIS
5	S	85	ASN
5	S	87	GLN
5	S	91	ASN
5	S	165	GLN
5	S	191	ASN
5	S	203	GLN
5	S	217	GLN
5	S	226	ASN
5	S	259	ASN
5	S	260	GLN
5	T	16	GLN
5	T	18	ASN
5	T	24	ASN
5	T	28	ASN
5	T	47	GLN
5	T	50	ASN
5	T	51	GLN
5	T	59	ASN
5	T	83	HIS
5	T	85	ASN
5	T	91	ASN
5	T	104	GLN
5	T	165	GLN
5	T	168	ASN

Continued on next page...

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Mol	Chain	Res	Type
5	T	169	GLN
5	T	191	ASN
5	T	203	GLN
5	T	217	GLN
5	T	226	ASN
5	T	260	GLN
5	T	261	GLN
5	U	24	ASN
5	U	28	ASN
5	U	47	GLN
5	U	51	GLN
5	U	78	GLN
5	U	104	GLN
5	U	119	GLN
5	U	165	GLN
5	U	169	GLN
5	U	217	GLN
5	U	226	ASN
5	U	260	GLN
5	U	261	GLN
5	V	24	ASN
5	V	28	ASN
5	V	47	GLN
5	V	48	ASN
5	V	58	GLN
5	V	59	ASN
5	V	85	ASN
5	V	87	GLN
5	V	91	ASN
5	V	119	GLN
5	V	165	GLN
5	V	169	GLN
5	V	191	ASN
5	V	203	GLN
5	V	217	GLN
5	V	226	ASN
5	V	260	GLN
5	V	261	GLN
5	W	16	GLN
5	W	24	ASN
5	W	28	ASN
5	W	47	GLN

Continued on next page...

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Mol	Chain	Res	Type
5	W	59	ASN
5	W	91	ASN
5	W	104	GLN
5	W	119	GLN
5	W	166	GLN
5	W	169	GLN
5	W	181	ASN
5	W	191	ASN
5	W	217	GLN
5	W	260	GLN
5	W	261	GLN
5	X	18	ASN
5	X	24	ASN
5	X	28	ASN
5	X	47	GLN
5	X	50	ASN
5	X	51	GLN
5	X	55	GLN
5	X	91	ASN
5	X	119	GLN
5	X	165	GLN
5	X	168	ASN
5	X	169	GLN
5	X	203	GLN
5	X	217	GLN
5	X	226	ASN
5	X	260	GLN
5	X	261	GLN
5	Y	24	ASN
5	Y	28	ASN
5	Y	47	GLN
5	Y	51	GLN
5	Y	58	GLN
5	Y	87	GLN
5	Y	91	ASN
5	Y	165	GLN
5	Y	168	ASN
5	Y	169	GLN
5	Y	191	ASN
5	Y	217	GLN
5	Y	226	ASN
5	Y	260	GLN

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Mol	Chain	Res	Type
5	Z	18	ASN
5	Z	24	ASN
5	Z	28	ASN
5	Z	47	GLN
5	Z	50	ASN
5	Z	51	GLN
5	Z	58	GLN
5	Z	91	ASN
5	Z	165	GLN
5	Z	166	GLN
5	Z	168	ASN
5	Z	169	GLN
5	Z	217	GLN
5	Z	260	GLN
5	Z	261	GLN
5	a	16	GLN
5	a	18	ASN
5	a	24	ASN
5	a	28	ASN
5	a	47	GLN
5	a	50	ASN
5	a	51	GLN
5	a	59	ASN
5	a	87	GLN
5	a	91	ASN
5	a	119	GLN
5	a	165	GLN
5	a	168	ASN
5	a	169	GLN
5	a	217	GLN
5	a	226	ASN
5	a	260	GLN
8	b	50	GLN
8	c	32	GLN
8	c	50	GLN
8	c	106	ASN
8	c	110	HIS
8	d	14	HIS
8	d	105	GLN
8	d	106	ASN
8	d	107	GLN
8	d	110	HIS

Continued on next page...

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Mol	Chain	Res	Type
8	e	85	GLN
8	e	101	ASN
8	e	105	GLN
8	e	107	GLN
8	f	14	HIS
8	f	34	ASN
8	f	50	GLN
8	f	107	GLN
8	f	110	HIS
9	g	100	ASN
9	g	118	ASN
9	g	134	GLN
9	h	127	GLN
9	i	22	ASN
9	i	46	HIS
9	i	100	ASN
9	i	118	ASN
9	j	22	ASN
9	j	118	ASN
9	k	22	ASN
9	k	100	ASN
9	k	120	GLN
9	l	22	ASN
9	l	100	ASN
9	l	120	GLN
10	m	24	ASN
10	m	125	ASN
10	m	179	ASN
10	m	200	GLN
10	m	228	GLN
10	n	15	ASN
10	n	24	ASN
10	n	102	ASN
10	n	188	ASN
10	n	200	GLN
10	o	14	GLN
10	o	40	GLN
10	o	102	ASN
10	o	200	GLN
10	o	222	GLN
10	p	14	GLN
10	p	119	HIS

Continued on next page...

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Mol	Chain	Res	Type
10	p	200	GLN
10	p	228	GLN
10	q	15	ASN
10	q	20	GLN
10	q	40	GLN
10	q	102	ASN
10	q	200	GLN
11	r	42	ASN
11	r	86	GLN
11	s	45	ASN
11	s	86	GLN
11	s	89	ASN
11	t	45	ASN
11	t	75	ASN
11	t	86	GLN
11	u	43	ASN
11	u	86	GLN
11	v	55	GLN
11	v	75	ASN
2	y	186	GLN
2	z	126	GLN
2	z	127	GLN
2	z	165	GLN
13	B7	79	GLN
13	B7	128	ASN
13	B7	156	GLN
13	B7	183	GLN
13	B7	329	GLN
13	B7	374	ASN
14	B8	156	ASN
14	B8	189	ASN
14	B8	222	ASN
14	B8	243	GLN
15	B9	139	GLN
17	CA	35	ASN
17	CA	121	GLN
17	CA	176	ASN
17	CA	205	ASN
17	CA	210	GLN
17	CA	334	ASN
17	CA	348	GLN
17	CA	352	GLN

Continued on next page...

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Mol	Chain	Res	Type
13	CB	79	GLN
13	CB	128	ASN
13	CB	156	GLN
13	CB	183	GLN
13	CB	329	GLN
13	CB	374	ASN
14	CC	222	ASN
15	CD	139	GLN
17	CF	35	ASN
17	CF	121	GLN
17	CF	176	ASN
17	CF	205	ASN
17	CF	210	GLN
17	CF	334	ASN
17	CF	348	GLN
17	CF	352	GLN
18	CG	112	GLN
18	CG	120	GLN
18	CG	163	ASN
18	CG	292	GLN
15	A0	139	GLN
17	CI	35	ASN
17	CI	66	ASN
17	CI	121	GLN
17	CI	176	ASN
17	CI	205	ASN
17	CI	210	GLN
17	CI	334	ASN
17	CI	348	GLN
17	CI	352	GLN
13	CJ	79	GLN
13	CJ	128	ASN
13	CJ	156	GLN
13	CJ	183	GLN
13	CJ	329	GLN
13	CJ	374	ASN
14	A4	156	ASN
14	A4	222	ASN
15	A5	139	GLN
17	A7	35	ASN
17	A7	66	ASN
17	A7	121	GLN

Continued on next page...

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Mol	Chain	Res	Type
17	A7	176	ASN
17	A7	210	GLN
17	A7	334	ASN
17	A7	348	GLN
17	A7	352	GLN
13	A8	79	GLN
13	A8	128	ASN
13	A8	156	GLN
13	A8	183	GLN
13	A8	329	GLN
13	A8	374	ASN
14	A9	156	ASN
14	A9	222	ASN
14	CK	156	ASN
14	CK	222	ASN
15	CL	139	GLN
17	CN	35	ASN
17	CN	66	ASN
17	CN	121	GLN
17	CN	176	ASN
17	CN	205	ASN
17	CN	210	GLN
17	CN	334	ASN
17	CN	348	GLN
17	CN	352	GLN
13	CO	79	GLN
13	CO	128	ASN
13	CO	156	GLN
13	CO	183	GLN
13	CO	329	GLN
13	CO	374	ASN
14	CP	156	ASN
14	CP	222	ASN
15	CQ	139	GLN
17	CS	35	ASN
17	CS	121	GLN
17	CS	176	ASN
17	CS	205	ASN
17	CS	210	GLN
17	CS	334	ASN
17	CS	348	GLN
17	CS	352	GLN

Continued on next page...

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Mol	Chain	Res	Type
13	CT	79	GLN
13	CT	128	ASN
13	CT	156	GLN
13	CT	329	GLN
13	CT	374	ASN
14	CU	156	ASN
14	CU	222	ASN
15	CV	139	GLN
17	CX	35	ASN
17	CX	121	GLN
17	CX	176	ASN
17	CX	205	ASN
17	CX	210	GLN
17	CX	334	ASN
17	CX	348	GLN
17	CX	352	GLN
13	CY	79	GLN
13	CY	128	ASN
13	CY	156	GLN
13	CY	183	GLN
13	CY	329	GLN
13	CY	374	ASN
14	CZ	156	ASN
14	CZ	222	ASN
15	Ca	139	GLN
17	Cc	35	ASN
17	Cc	121	GLN
17	Cc	176	ASN
17	Cc	205	ASN
17	Cc	210	GLN
17	Cc	334	ASN
17	Cc	348	GLN
17	Cc	352	GLN
13	Cd	79	GLN
13	Cd	128	ASN
13	Cd	156	GLN
13	Cd	183	GLN
13	Cd	329	GLN
13	Cd	374	ASN
14	Ce	156	ASN
14	Ce	222	ASN
15	Cf	139	GLN

Continued on next page...

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Mol	Chain	Res	Type
17	Ch	35	ASN
17	Ch	121	GLN
17	Ch	176	ASN
17	Ch	205	ASN
17	Ch	210	GLN
17	Ch	334	ASN
17	Ch	348	GLN
17	Ch	352	GLN
13	Ci	79	GLN
13	Ci	128	ASN
13	Ci	156	GLN
13	Ci	183	GLN
13	Ci	237	ASN
13	Ci	329	GLN
13	Ci	374	ASN
14	Cj	156	ASN
14	Cj	222	ASN
15	Ck	139	GLN
17	Cm	35	ASN
17	Cm	121	GLN
17	Cm	176	ASN
17	Cm	210	GLN
17	Cm	334	ASN
17	Cm	348	GLN
17	Cm	352	GLN
13	Cn	79	GLN
13	Cn	128	ASN
13	Cn	156	GLN
13	Cn	183	GLN
13	Cn	329	GLN
13	Cn	374	ASN
14	Co	156	ASN
14	Co	222	ASN
15	Cp	139	GLN
17	Cr	35	ASN
17	Cr	121	GLN
17	Cr	176	ASN
17	Cr	210	GLN
17	Cr	334	ASN
17	Cr	348	GLN
17	Cr	352	GLN
13	Cs	79	GLN

Continued on next page...

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Mol	Chain	Res	Type
13	Cs	128	ASN
13	Cs	156	GLN
13	Cs	183	GLN
13	Cs	329	GLN
13	Cs	374	ASN
14	Ct	156	ASN
14	Ct	222	ASN
15	Cu	139	GLN
17	Cw	35	ASN
17	Cw	66	ASN
17	Cw	121	GLN
17	Cw	176	ASN
17	Cw	205	ASN
17	Cw	210	GLN
17	Cw	334	ASN
17	Cw	348	GLN
17	Cw	352	GLN
13	Cx	79	GLN
13	Cx	128	ASN
13	Cx	156	GLN
13	Cx	183	GLN
13	Cx	329	GLN
13	Cx	374	ASN
14	Cy	156	ASN
14	Cy	222	ASN
15	Cz	139	GLN
17	C2	35	ASN
17	C2	121	GLN
17	C2	176	ASN
17	C2	205	ASN
17	C2	210	GLN
17	C2	334	ASN
17	C2	348	GLN
17	C2	352	GLN
13	C3	79	GLN
13	C3	128	ASN
13	C3	156	GLN
13	C3	183	GLN
13	C3	237	ASN
13	C3	329	GLN
13	C3	374	ASN
14	C4	156	ASN

Continued on next page...

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Mol	Chain	Res	Type
14	C4	222	ASN
15	C5	139	GLN
17	C7	35	ASN
17	C7	66	ASN
17	C7	121	GLN
17	C7	176	ASN
17	C7	205	ASN
17	C7	210	GLN
17	C7	334	ASN
17	C7	348	GLN
17	C7	352	GLN
13	C8	79	GLN
13	C8	128	ASN
13	C8	156	GLN
13	C8	183	GLN
13	C8	237	ASN
13	C8	329	GLN
13	C8	374	ASN
14	C9	156	ASN
14	C9	222	ASN
15	C0	139	GLN
18	DA	85	ASN
18	DA	112	GLN
18	DA	120	GLN
18	DA	159	GLN
18	DA	163	ASN
13	B1	79	GLN
13	B1	128	ASN
13	B1	156	GLN
13	B1	183	GLN
13	B1	329	GLN
13	B1	374	ASN
14	B2	156	ASN
14	B2	222	ASN
14	B2	243	GLN
15	B3	139	GLN
17	B5	35	ASN
17	B5	66	ASN
17	B5	121	GLN
17	B5	176	ASN
17	B5	205	ASN
17	B5	210	GLN

Continued on next page...

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Mol	Chain	Res	Type
17	B5	334	ASN
17	B5	348	GLN
17	B5	352	GLN
13	B6	79	GLN
13	B6	128	ASN
13	B6	156	GLN
13	B6	183	GLN
13	B6	329	GLN
13	B6	374	ASN
17	BB	35	ASN
17	BB	121	GLN
17	BB	176	ASN
17	BB	205	ASN
17	BB	210	GLN
17	BB	334	ASN
17	BB	348	GLN
17	BB	352	GLN
13	BC	79	GLN
13	BC	128	ASN
13	BC	156	GLN
13	BC	183	GLN
13	BC	329	GLN
13	BC	374	ASN
14	BD	156	ASN
14	BD	222	ASN
15	BE	139	GLN
17	BG	35	ASN
17	BG	66	ASN
17	BG	121	GLN
17	BG	176	ASN
17	BG	205	ASN
17	BG	210	GLN
17	BG	334	ASN
17	BG	348	GLN
17	BG	352	GLN
13	BH	79	GLN
13	BH	128	ASN
13	BH	156	GLN
13	BH	183	GLN
13	BH	329	GLN
13	BH	374	ASN
14	BI	222	ASN

Continued on next page...

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Mol	Chain	Res	Type
15	BJ	139	GLN
17	BL	35	ASN
17	BL	66	ASN
17	BL	121	GLN
17	BL	176	ASN
17	BL	210	GLN
17	BL	334	ASN
17	BL	348	GLN
17	BL	352	GLN
13	BM	79	GLN
13	BM	128	ASN
13	BM	156	GLN
13	BM	183	GLN
13	BM	329	GLN
13	BM	374	ASN
14	BN	156	ASN
14	BN	222	ASN
15	BO	139	GLN
17	BQ	35	ASN
17	BQ	66	ASN
17	BQ	121	GLN
17	BQ	176	ASN
17	BQ	205	ASN
17	BQ	210	GLN
17	BQ	334	ASN
17	BQ	348	GLN
17	BQ	352	GLN
13	BR	79	GLN
13	BR	128	ASN
13	BR	156	GLN
13	BR	183	GLN
13	BR	329	GLN
13	BR	374	ASN
14	BS	222	ASN
15	BT	139	GLN
17	BV	35	ASN
17	BV	66	ASN
17	BV	121	GLN
17	BV	176	ASN
17	BV	205	ASN
17	BV	210	GLN
17	BV	334	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	BV	348	GLN
17	BV	352	GLN
13	BW	79	GLN
13	BW	128	ASN
13	BW	156	GLN
13	BW	183	GLN
13	BW	329	GLN
13	BW	374	ASN
14	BX	156	ASN
14	BX	222	ASN
15	BY	139	GLN
17	Ba	35	ASN
17	Ba	121	GLN
17	Ba	176	ASN
17	Ba	205	ASN
17	Ba	210	GLN
17	Ba	334	ASN
17	Ba	348	GLN
17	Ba	352	GLN
13	Bb	79	GLN
13	Bb	128	ASN
13	Bb	156	GLN
13	Bb	183	GLN
13	Bb	329	GLN
13	Bb	374	ASN
14	Bc	156	ASN
14	Bc	222	ASN
15	Bd	139	GLN
17	Bf	35	ASN
17	Bf	66	ASN
17	Bf	121	GLN
17	Bf	176	ASN
17	Bf	205	ASN
17	Bf	210	GLN
17	Bf	334	ASN
17	Bf	348	GLN
17	Bf	352	GLN
13	Bg	79	GLN
13	Bg	128	ASN
13	Bg	156	GLN
13	Bg	183	GLN
13	Bg	329	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Bg	374	ASN
14	Bh	156	ASN
14	Bh	222	ASN
14	Bh	243	GLN
15	Bi	139	GLN
17	Bk	35	ASN
17	Bk	121	GLN
17	Bk	176	ASN
17	Bk	205	ASN
17	Bk	210	GLN
17	Bk	334	ASN
17	Bk	348	GLN
17	Bk	352	GLN
13	Bl	79	GLN
13	Bl	128	ASN
13	Bl	156	GLN
13	Bl	183	GLN
13	Bl	329	GLN
13	Bl	374	ASN
14	Bm	156	ASN
14	Bm	222	ASN
15	Bn	139	GLN
17	Bp	35	ASN
17	Bp	66	ASN
17	Bp	121	GLN
17	Bp	176	ASN
17	Bp	205	ASN
17	Bp	210	GLN
17	Bp	334	ASN
17	Bp	348	GLN
17	Bp	352	GLN
13	Bq	79	GLN
13	Bq	128	ASN
13	Bq	156	GLN
13	Bq	183	GLN
13	Bq	329	GLN
13	Bq	374	ASN
14	Br	156	ASN
14	Br	189	ASN
14	Br	222	ASN
14	Br	243	GLN
15	Bs	139	GLN

Continued on next page...

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Mol	Chain	Res	Type
17	Bu	35	ASN
17	Bu	121	GLN
17	Bu	176	ASN
17	Bu	205	ASN
17	Bu	210	GLN
17	Bu	334	ASN
17	Bu	352	GLN
13	Bv	79	GLN
13	Bv	128	ASN
13	Bv	156	GLN
13	Bv	183	GLN
13	Bv	329	GLN
13	Bv	374	ASN
14	Bw	156	ASN
14	Bw	189	ASN
14	Bw	222	ASN
15	Bx	139	GLN
17	Bz	35	ASN
17	Bz	66	ASN
17	Bz	121	GLN
17	Bz	176	ASN
17	Bz	205	ASN
17	Bz	210	GLN
17	Bz	334	ASN
17	Bz	348	GLN
17	Bz	352	GLN
19	DB	198	GLN
19	DC	149	HIS
19	DC	199	ASN
18	DD	112	GLN
18	DD	120	GLN
18	DD	163	ASN
18	DD	292	GLN
18	DE	85	ASN
18	DE	112	GLN
18	DE	120	GLN
18	DE	159	GLN
18	DE	163	ASN
19	DF	198	GLN
19	DG	199	ASN
18	DH	112	GLN
18	DH	120	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	DH	163	ASN
18	DH	292	GLN
18	DI	47	GLN
18	DI	85	ASN
18	DI	112	GLN
18	DI	120	GLN
18	DI	159	GLN
18	DI	163	ASN
19	DJ	198	GLN
19	DK	199	ASN
18	DL	112	GLN
18	DL	120	GLN
18	DL	163	ASN
18	DL	292	GLN
18	DM	47	GLN
18	DM	85	ASN
18	DM	112	GLN
18	DM	120	GLN
18	DM	159	GLN
18	DM	163	ASN
19	DN	198	GLN
19	DO	199	ASN
18	DP	112	GLN
18	DP	120	GLN
18	DP	163	ASN
18	DP	292	GLN
18	DQ	47	GLN
18	DQ	85	ASN
18	DQ	112	GLN
18	DQ	120	GLN
18	DQ	159	GLN
18	DQ	163	ASN
19	DR	198	GLN
19	DS	199	ASN
18	DT	112	GLN
18	DT	120	GLN
18	DT	163	ASN
18	DT	292	GLN
18	DU	85	ASN
18	DU	112	GLN
18	DU	120	GLN
18	DU	159	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	DU	163	ASN
19	DV	198	GLN
19	DW	199	ASN
18	DX	47	GLN
18	DX	112	GLN
18	DX	120	GLN
18	DX	163	ASN
18	DX	292	GLN
18	DY	85	ASN
18	DY	112	GLN
18	DY	120	GLN
18	DY	159	GLN
18	DY	163	ASN
19	DZ	198	GLN
19	Da	199	ASN
18	Db	112	GLN
18	Db	120	GLN
18	Db	163	ASN
18	Db	292	GLN
18	Dc	47	GLN
18	Dc	85	ASN
18	Dc	112	GLN
18	Dc	120	GLN
18	Dc	159	GLN
18	Dc	163	ASN
19	Dd	198	GLN
19	De	199	ASN
18	Df	112	GLN
18	Df	120	GLN
18	Df	163	ASN
18	Df	292	GLN
18	Dg	85	ASN
18	Dg	112	GLN
18	Dg	120	GLN
18	Dg	159	GLN
18	Dg	163	ASN
19	Dh	198	GLN
19	Di	199	ASN
18	Dj	47	GLN
18	Dj	112	GLN
18	Dj	120	GLN
18	Dj	163	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	Dj	292	GLN
18	Dk	47	GLN
18	Dk	85	ASN
18	Dk	112	GLN
18	Dk	120	GLN
18	Dk	159	GLN
18	Dk	163	ASN
19	Dl	198	GLN
19	Dm	199	ASN
18	Dn	47	GLN
18	Dn	112	GLN
18	Dn	120	GLN
18	Dn	163	ASN
18	Dn	292	GLN
18	Do	47	GLN
18	Do	85	ASN
18	Do	112	GLN
18	Do	120	GLN
18	Do	159	GLN
18	Do	163	ASN
19	Dp	198	GLN
19	Dq	199	ASN
18	Dr	112	GLN
18	Dr	120	GLN
18	Dr	163	ASN
18	Dr	292	GLN
18	Ds	47	GLN
18	Ds	85	ASN
18	Ds	112	GLN
18	Ds	120	GLN
18	Ds	159	GLN
18	Ds	163	ASN
19	Dt	198	GLN
19	Du	199	ASN
18	Dv	47	GLN
18	Dv	112	GLN
18	Dv	120	GLN
18	Dv	163	ASN
18	Dv	292	GLN
18	Dw	47	GLN
18	Dw	85	ASN
18	Dw	112	GLN

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Mol	Chain	Res	Type
18	Dw	120	GLN
18	Dw	159	GLN
18	Dw	163	ASN
19	Dx	198	GLN
19	Dy	199	ASN
7	Dz	305	GLN
7	Dz	387	GLN
7	Dz	445	ASN
7	D1	305	GLN
7	D1	387	GLN
7	D1	445	ASN
7	D2	305	GLN
7	D2	387	GLN
7	D2	445	ASN
7	D3	305	GLN
7	D3	387	GLN
7	D3	445	ASN
7	D4	305	GLN
7	D4	387	GLN
7	D4	445	ASN
7	D5	305	GLN
7	D5	387	GLN
7	D5	445	ASN
7	EG	305	GLN
7	EG	387	GLN
7	EG	445	ASN
7	EH	305	GLN
7	EH	387	GLN
7	EH	445	ASN
7	EI	305	GLN
7	EI	387	GLN
7	EI	445	ASN
7	EJ	305	GLN
7	EJ	387	GLN
7	EJ	445	ASN
7	EK	305	GLN
7	EK	387	GLN
7	EK	445	ASN
7	EL	305	GLN
7	EL	387	GLN
7	EL	445	ASN
7	EM	305	GLN

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Mol	Chain	Res	Type
7	EM	387	GLN
7	EM	445	ASN
7	EN	305	GLN
7	EN	387	GLN
7	EN	445	ASN
7	EO	305	GLN
7	EO	387	GLN
7	EO	445	ASN
7	EP	305	GLN
7	EP	387	GLN
7	EP	445	ASN
7	EQ	305	GLN
7	EQ	327	ASN
7	EQ	387	GLN
7	EQ	445	ASN
7	ER	305	GLN
7	ER	327	ASN
7	ER	387	GLN
7	ER	445	ASN
7	ES	305	GLN
7	ES	387	GLN
7	ES	445	ASN
7	ET	305	GLN
7	ET	387	GLN
7	ET	445	ASN
7	EU	305	GLN
7	EU	387	GLN
7	EU	445	ASN
7	EV	305	GLN
7	EV	387	GLN
7	EV	445	ASN
7	EW	305	GLN
7	EW	387	GLN
7	EW	445	ASN
7	EX	166	GLN
7	EX	197	GLN
7	EY	152	GLN
7	EY	156	GLN
7	EY	212	ASN
7	EY	216	GLN
7	EY	243	HIS
7	EZ	144	GLN

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Mol	Chain	Res	Type
7	EZ	152	GLN
7	EZ	166	GLN
7	EZ	196	ASN
7	EZ	215	GLN
7	Ea	242	GLN
7	Eb	144	GLN
7	Eb	212	ASN
7	Ec	152	GLN
7	Ec	156	GLN
7	Ec	166	GLN
7	Ed	152	GLN
7	Ed	212	ASN
7	Ee	197	GLN
7	Ef	152	GLN
7	Ef	156	GLN
7	Ef	166	GLN
7	Ef	195	HIS
7	Eg	152	GLN
7	Eg	212	ASN
7	Eh	152	GLN
7	Eh	156	GLN
7	Eh	189	HIS
7	Eh	196	ASN
7	Eh	242	GLN
7	Ei	152	GLN
7	Ei	216	GLN
7	Ei	243	HIS
7	Ej	166	GLN
7	Ej	212	ASN
7	Ek	152	GLN
7	Ek	212	ASN
7	Ek	216	GLN
7	Ek	242	GLN
7	El	152	GLN
7	El	166	GLN
7	El	242	GLN
7	Em	152	GLN
7	Em	242	GLN
7	Eo	152	GLN
7	Eo	166	GLN
7	Eo	212	ASN
7	Eo	216	GLN

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Mol	Chain	Res	Type
7	Ep	144	GLN
7	Ep	152	GLN
7	Eq	144	GLN
7	Eq	166	GLN
7	Eq	197	GLN
7	Er	166	GLN
7	Er	189	HIS
7	Er	196	ASN
7	Er	197	GLN
7	Er	242	GLN
7	Es	166	GLN
7	Es	216	GLN
7	Et	144	GLN
7	Eu	305	GLN
7	Eu	387	GLN
7	Eu	445	ASN
7	Ev	305	GLN
7	Ev	387	GLN
7	Ev	445	ASN
7	Ew	305	GLN
7	Ew	387	GLN
7	Ew	445	ASN
7	Ex	305	GLN
7	Ex	387	GLN
7	Ex	445	ASN
7	Ey	305	GLN
7	Ey	387	GLN
7	Ey	445	ASN
7	Ez	305	GLN
7	Ez	387	GLN
7	Ez	445	ASN
7	E1	305	GLN
7	E1	387	GLN
7	E1	445	ASN
7	E2	305	GLN
7	E2	387	GLN
7	E2	445	ASN
7	E3	305	GLN
7	E3	387	GLN
7	E3	445	ASN
7	E4	305	GLN
7	E4	387	GLN

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Mol	Chain	Res	Type
7	E4	445	ASN
7	E5	305	GLN
7	E5	387	GLN
7	E5	445	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

9 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
22	PGT	e	202	-	50,50,50	0.33	0	53,56,56	0.45	0
23	XKP	v	201	-	31,31,32	0.37	0	34,36,37	0.49	0
23	XKP	s	201	-	31,31,32	0.37	0	34,36,37	0.35	0
23	XKP	t	201	-	31,31,32	0.37	0	34,36,37	0.38	0
22	PGT	2	301	-	50,50,50	0.31	0	53,56,56	0.46	0
22	PGT	t	202	-	50,50,50	0.30	0	53,56,56	0.37	0
22	PGT	v	202	-	50,50,50	0.30	0	53,56,56	0.38	0
23	XKP	u	201	-	31,31,32	0.38	0	34,36,37	0.43	0
23	XKP	e	201	-	31,31,32	0.36	0	34,36,37	0.43	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	PGT	e	202	-	-	32/55/55/55	-
23	XKP	v	201	-	-	20/35/35/36	-
23	XKP	s	201	-	-	20/35/35/36	-
23	XKP	t	201	-	-	25/35/35/36	-
22	PGT	2	301	-	-	34/55/55/55	-
22	PGT	t	202	-	-	37/55/55/55	-
22	PGT	v	202	-	-	39/55/55/55	-
23	XKP	u	201	-	-	18/35/35/36	-
23	XKP	e	201	-	-	17/35/35/36	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (242) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	2	301	PGT	C32-C31-O2-C2
22	2	301	PGT	C1-O3P-P-O1P
22	2	301	PGT	C4-O4P-P-O3P
22	2	301	PGT	C4-O4P-P-O1P
22	2	301	PGT	C5-C4-O4P-P
22	e	202	PGT	O31-C31-O2-C2
22	e	202	PGT	C4-O4P-P-O1P
22	e	202	PGT	C4-O4P-P-O2P
22	e	202	PGT	C4-C5-C6-O6
22	e	202	PGT	O5-C5-C6-O6
22	t	202	PGT	C4-O4P-P-O2P
22	t	202	PGT	C4-C5-C6-O6
22	v	202	PGT	C32-C31-O2-C2
22	v	202	PGT	C1-O3P-P-O1P
22	v	202	PGT	O11-C11-O3-C3
22	v	202	PGT	C12-C11-O3-C3
23	e	201	XKP	N-C10-C9-O5
23	e	201	XKP	C9-O5-P-O2
23	e	201	XKP	C9-O5-P-O3

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Mol	Chain	Res	Type	Atoms
23	s	201	XKP	C12-C11-O6-C7
23	s	201	XKP	O7-C11-O6-C7
23	s	201	XKP	N-C10-C9-O5
23	s	201	XKP	C8-O2-P-O3
23	s	201	XKP	C9-O5-P-O3
23	s	201	XKP	C9-O5-P-O4
23	t	201	XKP	C12-C11-O6-C7
23	t	201	XKP	O7-C11-O6-C7
23	t	201	XKP	N-C10-C9-O5
23	t	201	XKP	C8-O2-P-O3
23	t	201	XKP	C8-O2-P-O4
23	t	201	XKP	C8-O2-P-O5
23	t	201	XKP	C9-O5-P-O2
23	t	201	XKP	C9-O5-P-O3
23	t	201	XKP	C9-O5-P-O4
23	u	201	XKP	C12-C11-O6-C7
23	u	201	XKP	C8-O2-P-O3
23	u	201	XKP	C8-O2-P-O4
23	u	201	XKP	C8-O2-P-O5
23	u	201	XKP	C9-O5-P-O4
23	v	201	XKP	O7-C11-O6-C7
22	2	301	PGT	O11-C11-O3-C3
22	t	202	PGT	O11-C11-O3-C3
22	2	301	PGT	C12-C11-O3-C3
22	t	202	PGT	C12-C11-O3-C3
22	e	202	PGT	O11-C11-O3-C3
22	2	301	PGT	O31-C31-O2-C2
22	v	202	PGT	O31-C31-O2-C2
23	u	201	XKP	O7-C11-O6-C7
22	e	202	PGT	C12-C11-O3-C3
22	e	202	PGT	C32-C31-O2-C2
23	v	201	XKP	C12-C11-O6-C7
23	s	201	XKP	C4-C5-O1-C6
22	t	202	PGT	C39-C40-C41-C42
23	s	201	XKP	C15-C16-C18-C19
23	s	201	XKP	O-C5-O1-C6
22	2	301	PGT	C43-C44-C45-C46
22	v	202	PGT	O4P-C4-C5-O5
22	t	202	PGT	C32-C31-O2-C2
22	e	202	PGT	C43-C44-C45-C46
22	t	202	PGT	C16-C17-C18-C19
22	2	301	PGT	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
22	e	202	PGT	C39-C40-C41-C42
23	t	201	XKP	C-C1-C2-C3
22	v	202	PGT	C43-C44-C45-C46
23	t	201	XKP	C4-C5-O1-C6
22	v	202	PGT	C11-C12-C13-C14
22	2	301	PGT	O4P-C4-C5-C6
22	t	202	PGT	O31-C31-O2-C2
23	e	201	XKP	C1-C2-C3-C4
23	t	201	XKP	O-C5-O1-C6
23	e	201	XKP	C11-C12-C13-C14
23	t	201	XKP	C11-C12-C13-C14
22	2	301	PGT	C11-C12-C13-C14
23	s	201	XKP	C2-C3-C4-C5
23	s	201	XKP	C11-C12-C13-C14
23	v	201	XKP	C2-C3-C4-C5
23	t	201	XKP	C2-C3-C4-C5
22	t	202	PGT	C14-C15-C16-C17
22	t	202	PGT	C31-C32-C33-C34
22	2	301	PGT	C1-O3P-P-O4P
22	e	202	PGT	C4-O4P-P-O3P
22	t	202	PGT	C4-O4P-P-O3P
22	v	202	PGT	C1-O3P-P-O4P
22	v	202	PGT	C4-O4P-P-O3P
23	s	201	XKP	C9-O5-P-O2
23	v	201	XKP	C8-O2-P-O5
23	s	201	XKP	C12-C13-C14-C15
22	v	202	PGT	C41-C42-C43-C44
23	s	201	XKP	C-C1-C2-C3
23	u	201	XKP	C1-C2-C3-C4
22	v	202	PGT	C32-C33-C34-C35
22	e	202	PGT	C15-C16-C17-C18
22	t	202	PGT	C38-C39-C40-C41
22	v	202	PGT	C36-C37-C38-C39
22	2	301	PGT	C39-C40-C41-C42
23	t	201	XKP	C14-C15-C16-C18
22	e	202	PGT	C12-C13-C14-C15
22	t	202	PGT	C43-C44-C45-C46
23	s	201	XKP	C13-C14-C15-C16
23	e	201	XKP	C14-C15-C16-C18
22	e	202	PGT	C42-C43-C44-C45
22	e	202	PGT	C22-C23-C24-C25
22	2	301	PGT	C41-C42-C43-C44

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Mol	Chain	Res	Type	Atoms
22	e	202	PGT	C37-C38-C39-C40
23	u	201	XKP	C15-C16-C18-C19
23	e	201	XKP	O7-C11-O6-C7
23	e	201	XKP	C12-C11-O6-C7
22	e	202	PGT	C19-C20-C21-C22
22	2	301	PGT	C21-C22-C23-C24
22	e	202	PGT	C36-C37-C38-C39
22	v	202	PGT	C20-C21-C22-C23
22	v	202	PGT	C22-C23-C24-C25
23	v	201	XKP	C14-C15-C16-C18
22	2	301	PGT	C13-C14-C15-C16
22	v	202	PGT	C14-C15-C16-C17
23	t	201	XKP	C15-C16-C18-C19
23	u	201	XKP	C13-C14-C15-C16
22	v	202	PGT	C38-C39-C40-C41
23	u	201	XKP	C2-C3-C4-C5
22	2	301	PGT	C42-C43-C44-C45
23	s	201	XKP	C20-C-C1-C2
22	t	202	PGT	C36-C37-C38-C39
22	e	202	PGT	C33-C34-C35-C36
22	2	301	PGT	O4P-C4-C5-O5
22	v	202	PGT	C44-C45-C46-C47
22	v	202	PGT	C19-C20-C21-C22
22	v	202	PGT	O4P-C4-C5-C6
22	t	202	PGT	C13-C14-C15-C16
23	e	201	XKP	C2-C3-C4-C5
22	2	301	PGT	C23-C24-C25-C26
22	t	202	PGT	C23-C24-C25-C26
22	t	202	PGT	C37-C38-C39-C40
23	u	201	XKP	C4-C5-O1-C6
22	v	202	PGT	C18-C19-C20-C21
22	t	202	PGT	C41-C42-C43-C44
23	u	201	XKP	C11-C12-C13-C14
23	e	201	XKP	C12-C13-C14-C15
23	v	201	XKP	C4-C5-O1-C6
23	u	201	XKP	C20-C-C1-C2
22	v	202	PGT	C16-C17-C18-C19
23	v	201	XKP	C-C1-C2-C3
22	t	202	PGT	C12-C13-C14-C15
23	s	201	XKP	C8-O2-P-O5
23	u	201	XKP	C9-O5-P-O2
22	e	202	PGT	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
22	t	202	PGT	C42-C43-C44-C45
23	u	201	XKP	O-C5-O1-C6
22	2	301	PGT	C32-C33-C34-C35
23	t	201	XKP	O1-C6-C7-C8
22	v	202	PGT	C45-C46-C47-C48
22	2	301	PGT	C33-C34-C35-C36
22	e	202	PGT	C32-C33-C34-C35
23	e	201	XKP	C-C1-C2-C3
22	e	202	PGT	C38-C39-C40-C41
23	v	201	XKP	O-C5-O1-C6
22	v	202	PGT	C15-C16-C17-C18
23	u	201	XKP	C-C1-C2-C3
22	t	202	PGT	C33-C34-C35-C36
22	t	202	PGT	C35-C36-C37-C38
22	t	202	PGT	C32-C33-C34-C35
23	t	201	XKP	C1-C-C20-C21
22	v	202	PGT	C13-C14-C15-C16
23	v	201	XKP	C15-C16-C18-C19
22	t	202	PGT	C19-C20-C21-C22
22	2	301	PGT	C1-C2-C3-O3
22	e	202	PGT	C1-C2-C3-O3
22	e	202	PGT	C45-C46-C47-C48
22	2	301	PGT	C19-C20-C21-C22
22	t	202	PGT	C22-C23-C24-C25
22	e	202	PGT	O2-C2-C3-O3
23	t	201	XKP	O1-C6-C7-O6
23	v	201	XKP	O1-C6-C7-O6
22	v	202	PGT	C40-C41-C42-C43
22	v	202	PGT	C17-C18-C19-C20
22	e	202	PGT	C41-C42-C43-C44
22	t	202	PGT	C34-C35-C36-C37
23	v	201	XKP	C6-C7-C8-O2
23	s	201	XKP	C14-C15-C16-C18
22	e	202	PGT	C34-C35-C36-C37
22	v	202	PGT	C12-C13-C14-C15
23	v	201	XKP	O1-C6-C7-C8
23	e	201	XKP	C16-C18-C19-C17
22	2	301	PGT	O2-C2-C3-O3
22	v	202	PGT	O2-C2-C3-O3
22	e	202	PGT	C14-C15-C16-C17
22	t	202	PGT	C5-C4-O4P-P
22	2	301	PGT	C1-O3P-P-O2P

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Mol	Chain	Res	Type	Atoms
22	t	202	PGT	C4-O4P-P-O1P
22	v	202	PGT	C1-O3P-P-O2P
22	v	202	PGT	C4-O4P-P-O1P
23	e	201	XKP	C9-O5-P-O4
23	s	201	XKP	C8-O2-P-O4
23	v	201	XKP	C8-O2-P-O4
23	t	201	XKP	C1-C2-C3-C4
22	2	301	PGT	C22-C23-C24-C25
23	e	201	XKP	C10-C9-O5-P
22	2	301	PGT	O3P-C1-C2-O2
23	v	201	XKP	O6-C7-C8-O2
22	v	202	PGT	C1-C2-C3-O3
22	t	202	PGT	O2-C2-C3-O3
23	s	201	XKP	C7-C8-O2-P
23	v	201	XKP	C13-C14-C15-C16
22	t	202	PGT	O5-C5-C6-O6
23	u	201	XKP	C1-C-C20-C21
22	2	301	PGT	C16-C17-C18-C19
22	t	202	PGT	C21-C22-C23-C24
23	v	201	XKP	C9-O5-P-O2
23	t	201	XKP	C16-C18-C19-C17
22	2	301	PGT	C38-C39-C40-C41
23	t	201	XKP	C6-C7-C8-O2
23	t	201	XKP	O6-C7-C8-O2
22	2	301	PGT	C17-C18-C19-C20
22	t	202	PGT	C2-C1-O3P-P
22	v	202	PGT	C37-C38-C39-C40
23	v	201	XKP	C20-C-C1-C2
23	t	201	XKP	C12-C13-C14-C15
22	2	301	PGT	O3P-C1-C2-C3
22	v	202	PGT	C34-C35-C36-C37
23	v	201	XKP	C12-C13-C14-C15
22	v	202	PGT	C5-C4-O4P-P
22	v	202	PGT	C39-C40-C41-C42
22	v	202	PGT	O3-C11-C12-C13
22	t	202	PGT	C1-C2-C3-O3
22	t	202	PGT	O2-C31-C32-C33
22	2	301	PGT	C37-C38-C39-C40
23	v	201	XKP	C1-C-C20-C21
22	v	202	PGT	C42-C43-C44-C45
22	v	202	PGT	O11-C11-C12-C13
22	e	202	PGT	O4P-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
22	2	301	PGT	C40-C41-C42-C43
23	e	201	XKP	C1-C-C20-C21
23	e	201	XKP	C15-C16-C18-C19
23	e	201	XKP	C20-C-C1-C2
22	t	202	PGT	O31-C31-C32-C33
22	t	202	PGT	C1-O3P-P-O1P
23	u	201	XKP	C9-O5-P-O3
23	v	201	XKP	C9-O5-P-O4
22	t	202	PGT	C20-C21-C22-C23
22	e	202	PGT	C18-C19-C20-C21
23	t	201	XKP	C7-C8-O2-P
22	e	202	PGT	O3-C11-C12-C13
22	e	202	PGT	O4P-C4-C5-O5

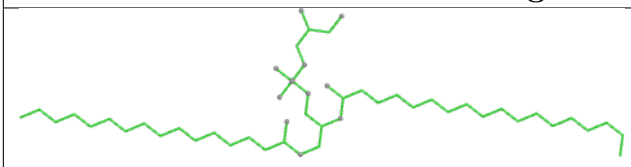
There are no ring outliers.

9 monomers are involved in 56 short contacts:

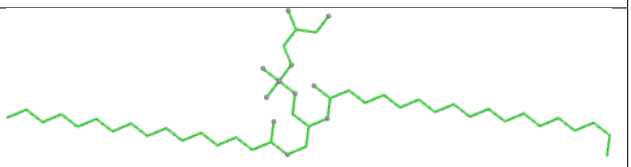
Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	e	202	PGT	4	0
23	v	201	XKP	6	0
23	s	201	XKP	1	0
23	t	201	XKP	2	0
22	2	301	PGT	12	0
22	t	202	PGT	17	0
22	v	202	PGT	12	0
23	u	201	XKP	3	0
23	e	201	XKP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

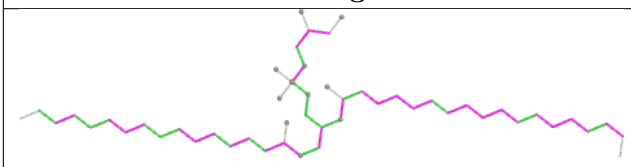
Ligand PGT e 202



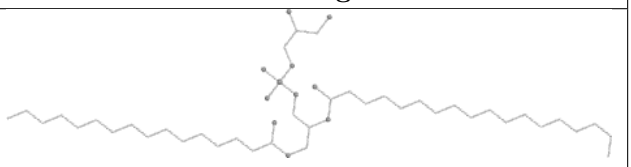
Bond lengths



Bond angles

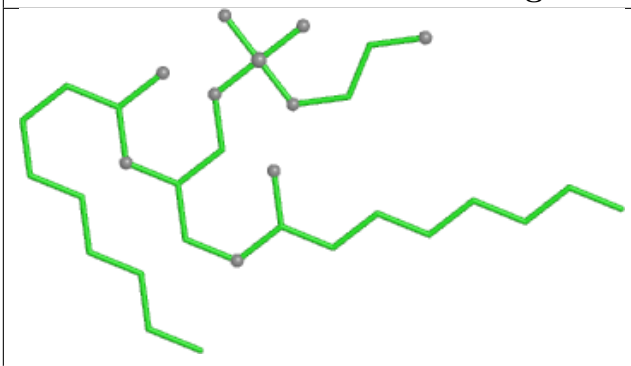


Torsions

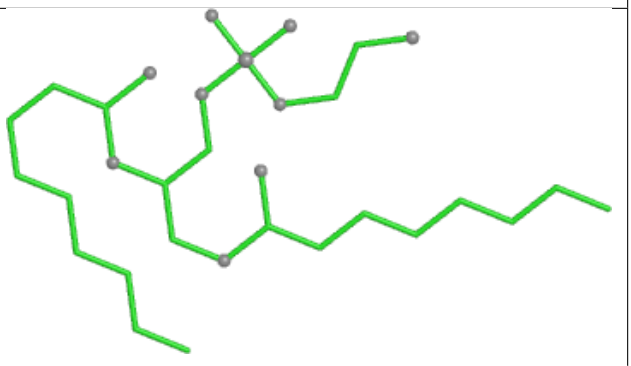


Rings

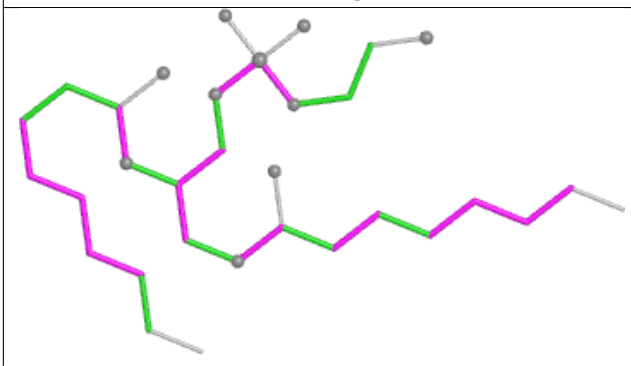
Ligand XKP v 201



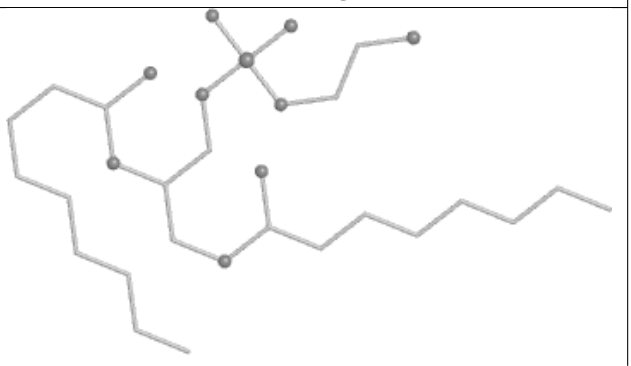
Bond lengths



Bond angles

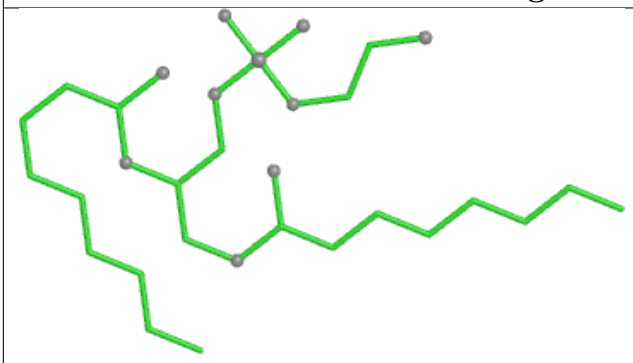


Torsions

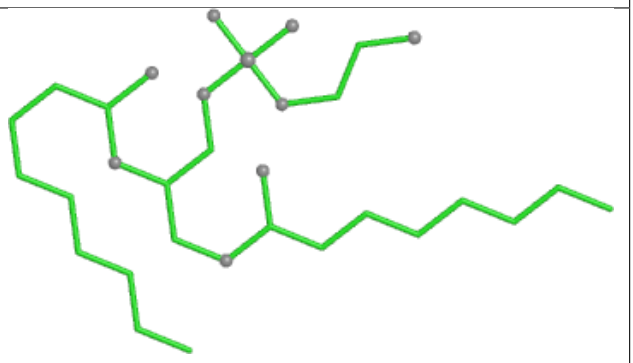


Rings

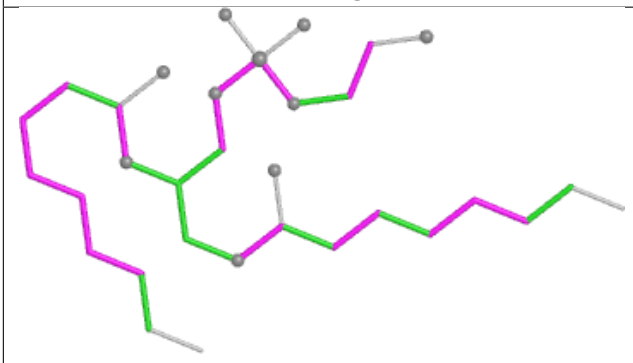
Ligand XKP s 201



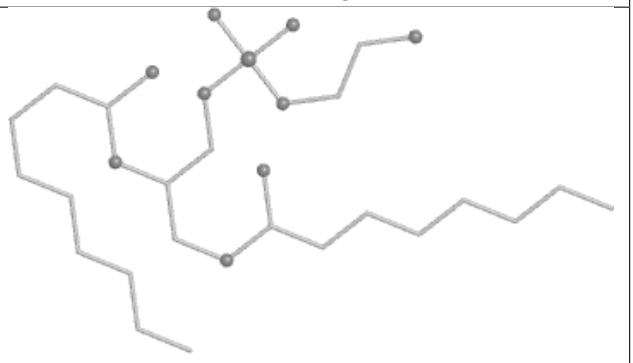
Bond lengths



Bond angles

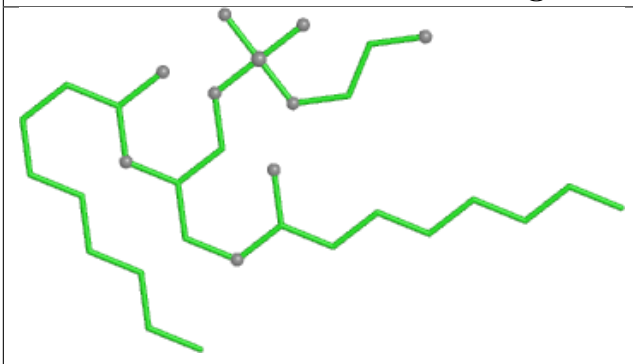


Torsions

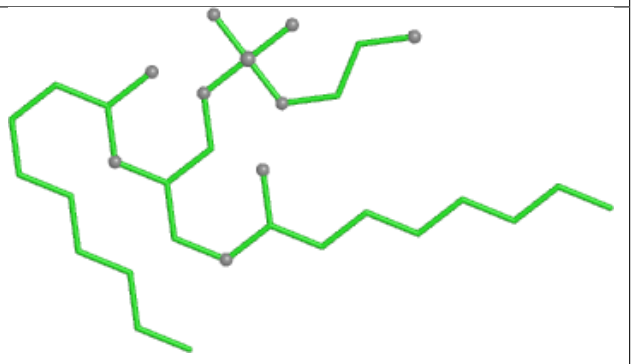


Rings

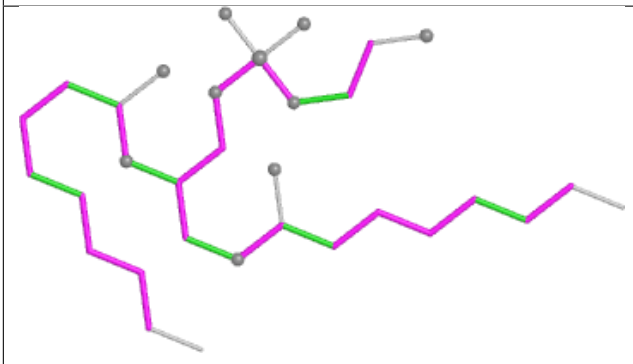
Ligand XKP t 201



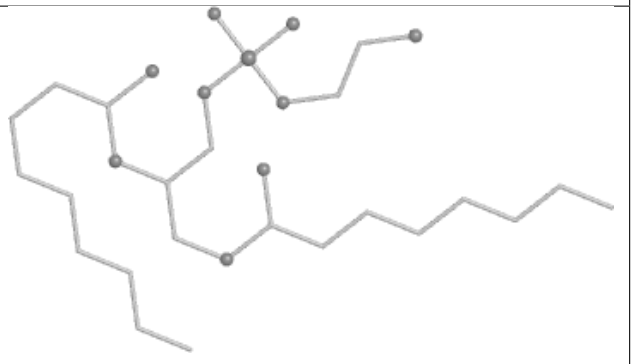
Bond lengths



Bond angles

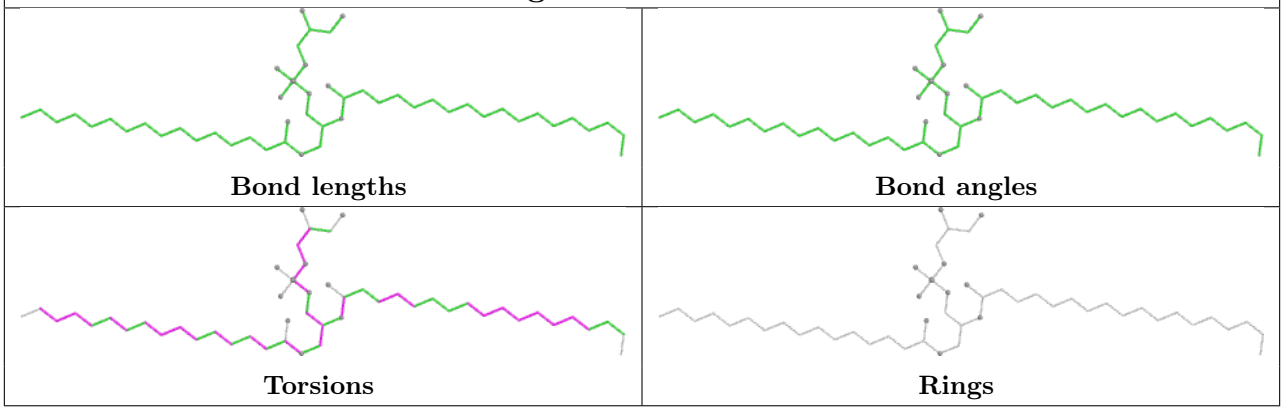


Torsions

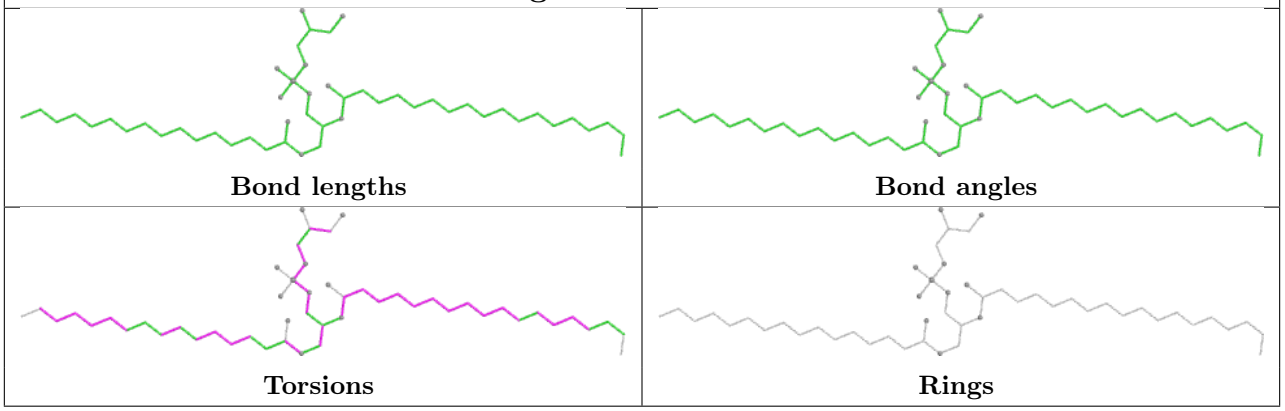


Rings

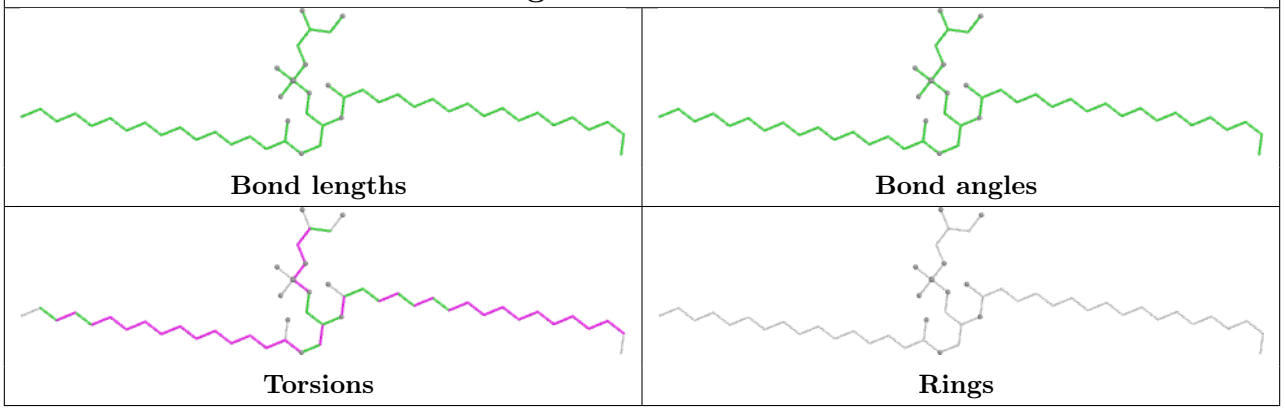
Ligand PGT 2 301



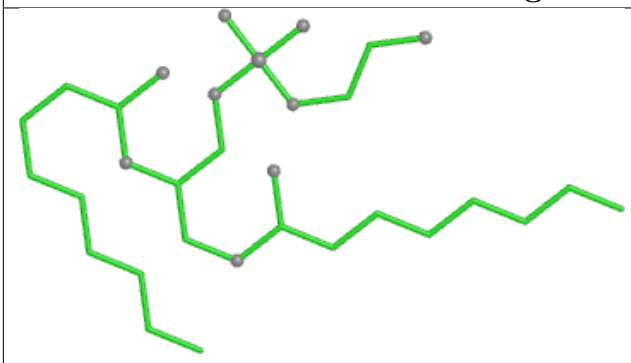
Ligand PGT t 202



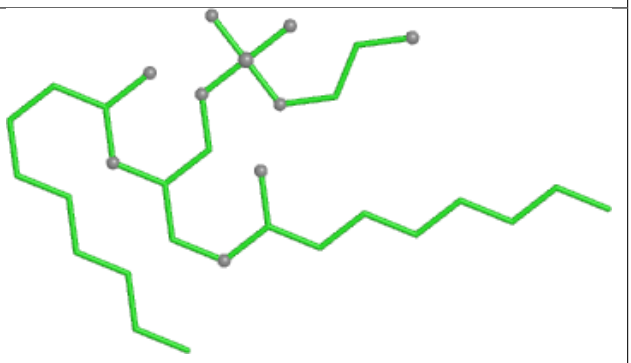
Ligand PGT v 202



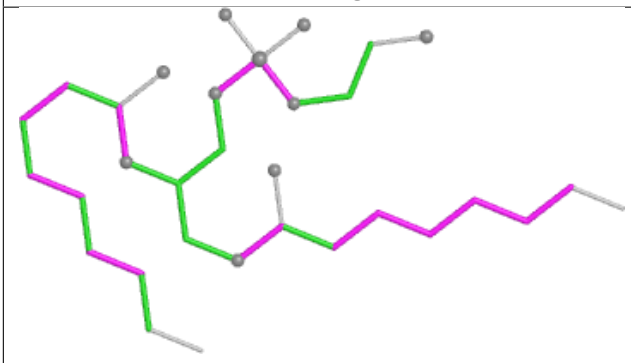
Ligand XKP u 201



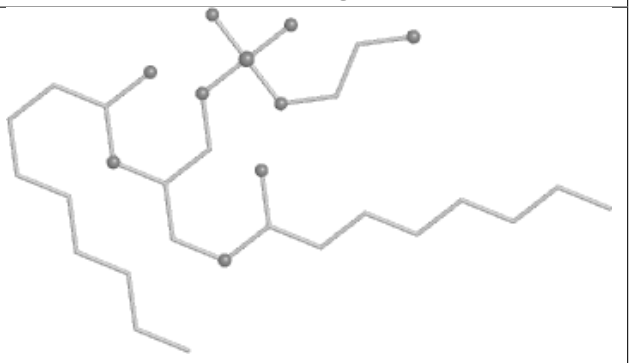
Bond lengths



Bond angles

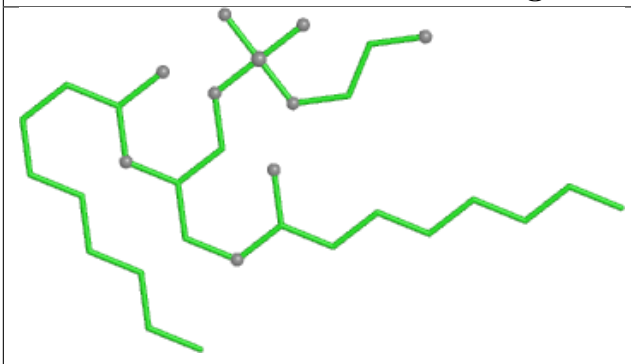


Torsions

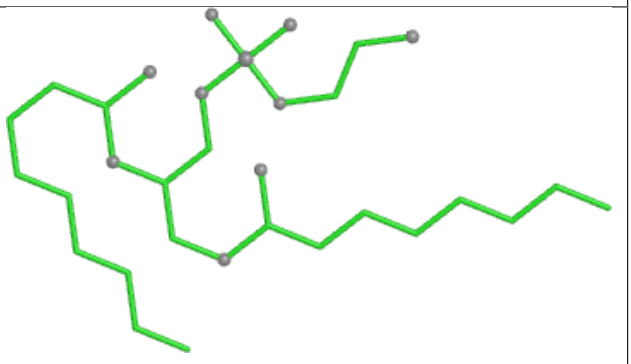


Rings

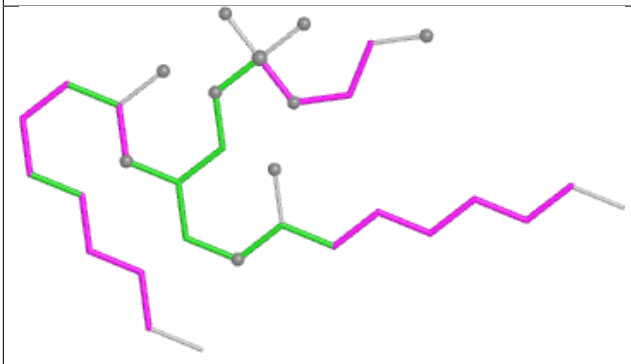
Ligand XKP e 201



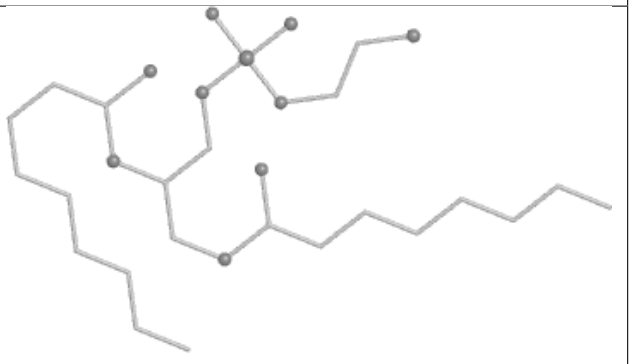
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

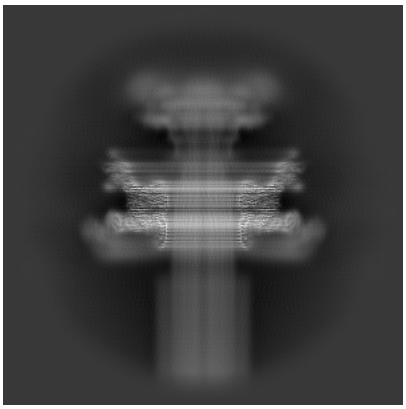
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-39790. These allow visual inspection of the internal detail of the map and identification of artifacts.

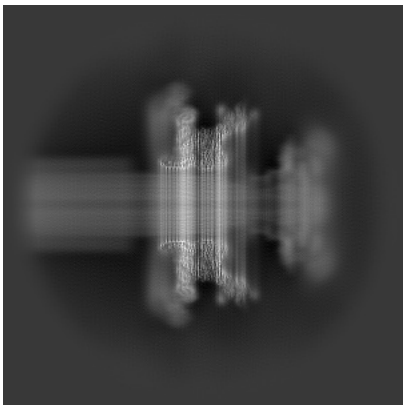
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

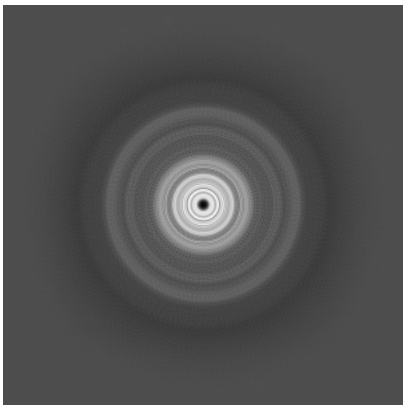
6.1.1 Primary map



X

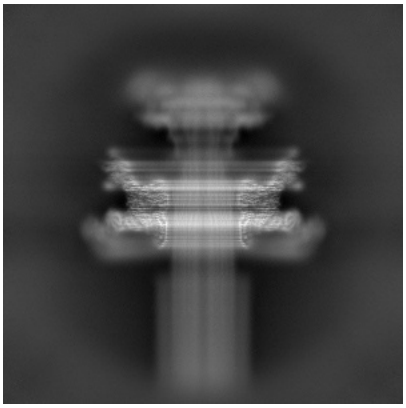


Y

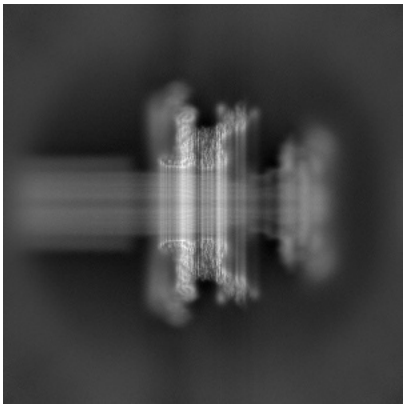


Z

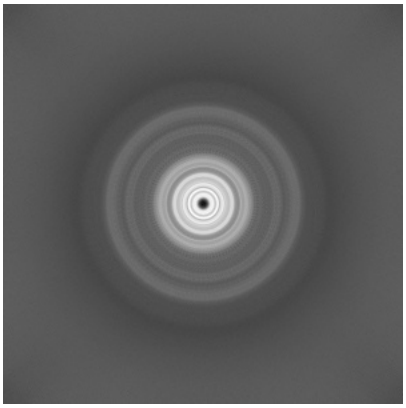
6.1.2 Raw map



X



Y

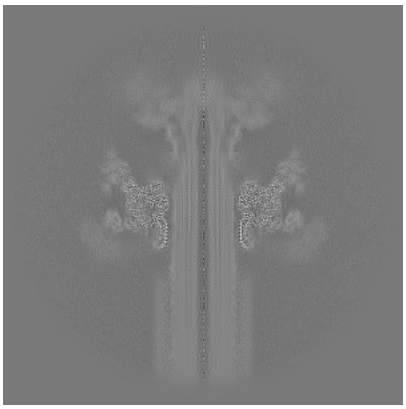


Z

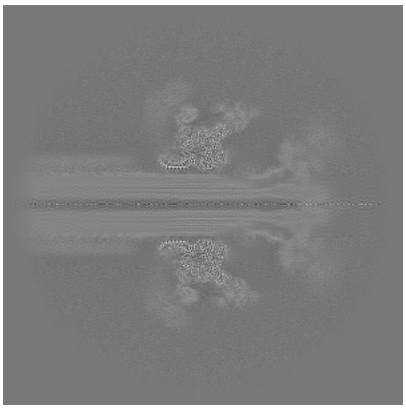
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

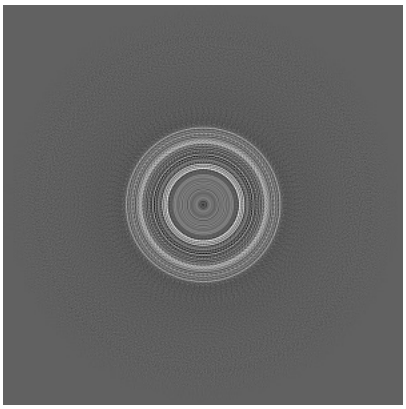
6.2.1 Primary map



X Index: 310

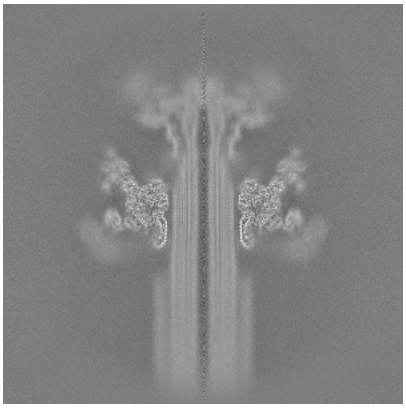


Y Index: 310

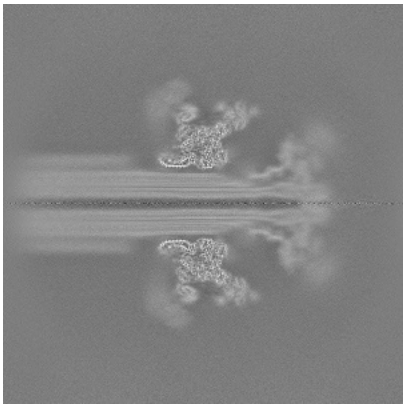


Z Index: 310

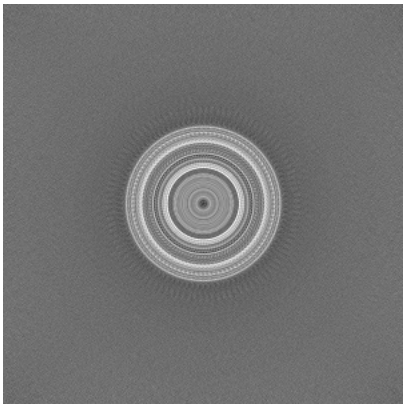
6.2.2 Raw map



X Index: 310



Y Index: 310

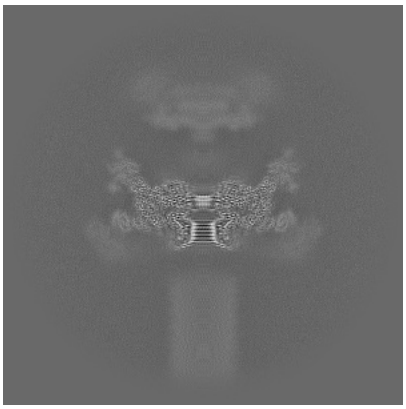


Z Index: 310

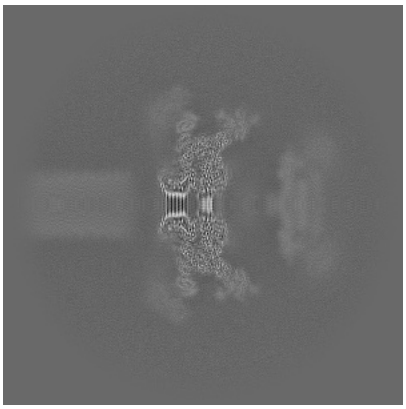
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

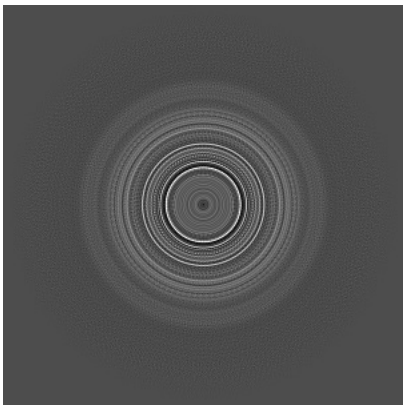
6.3.1 Primary map



X Index: 366

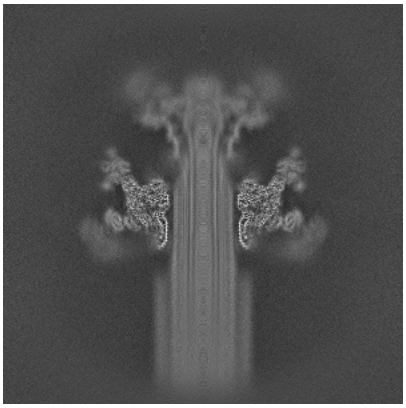


Y Index: 254

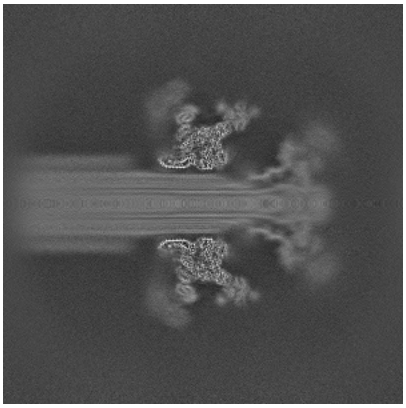


Z Index: 279

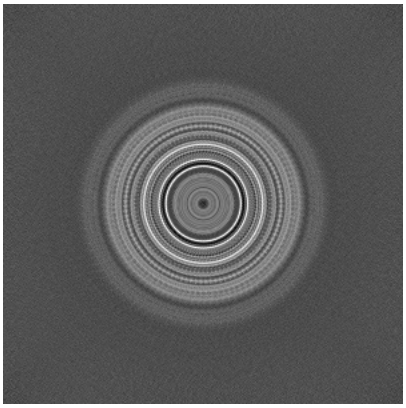
6.3.2 Raw map



X Index: 298



Y Index: 298

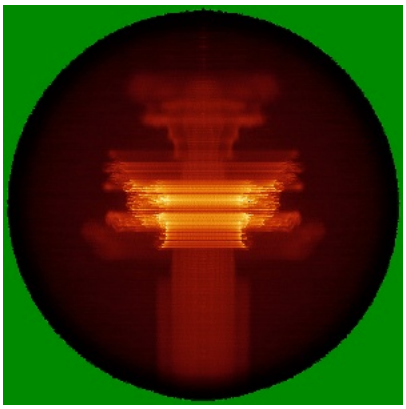


Z Index: 282

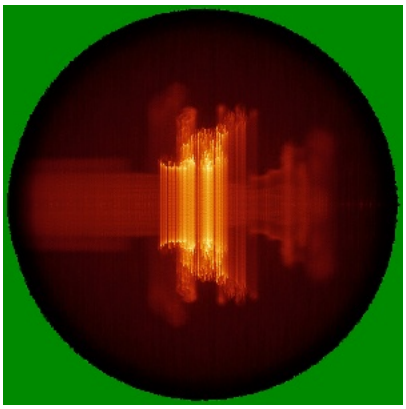
The images above show the largest variance slices of the map in three orthogonal directions.

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

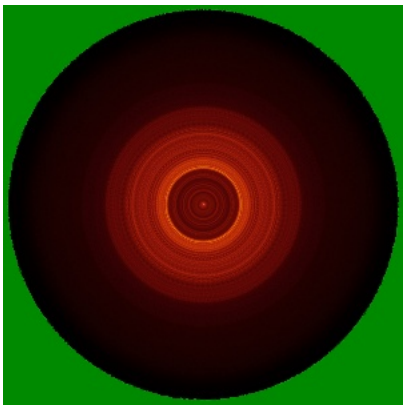
6.4.1 Primary map



X

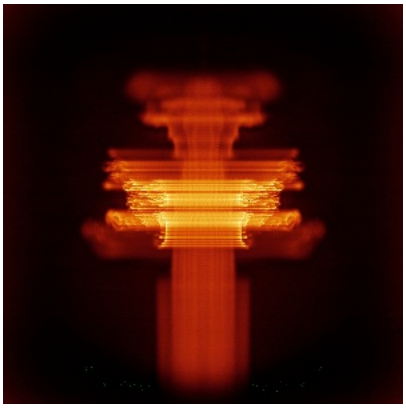


Y

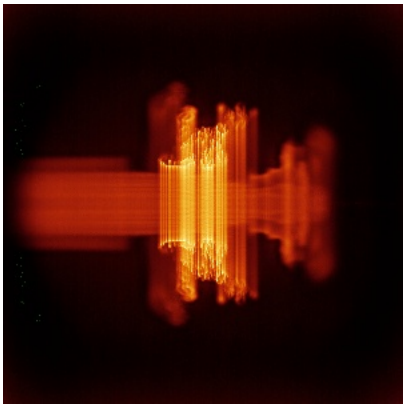


Z

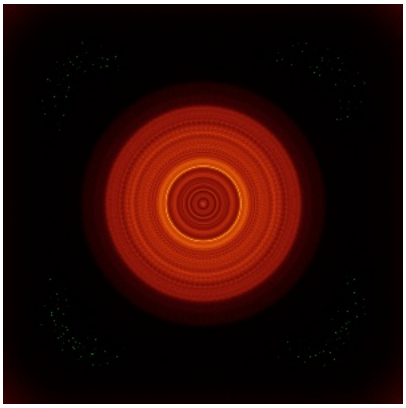
6.4.2 Raw map



X



Y

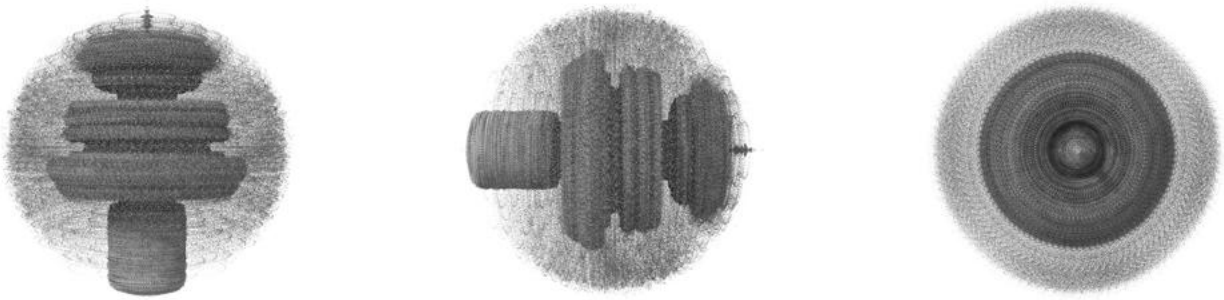


Z

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)

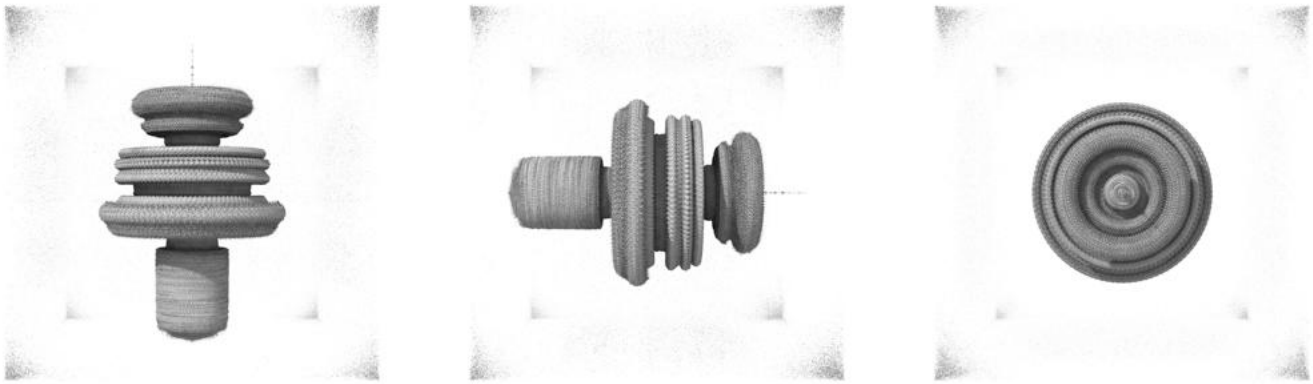
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

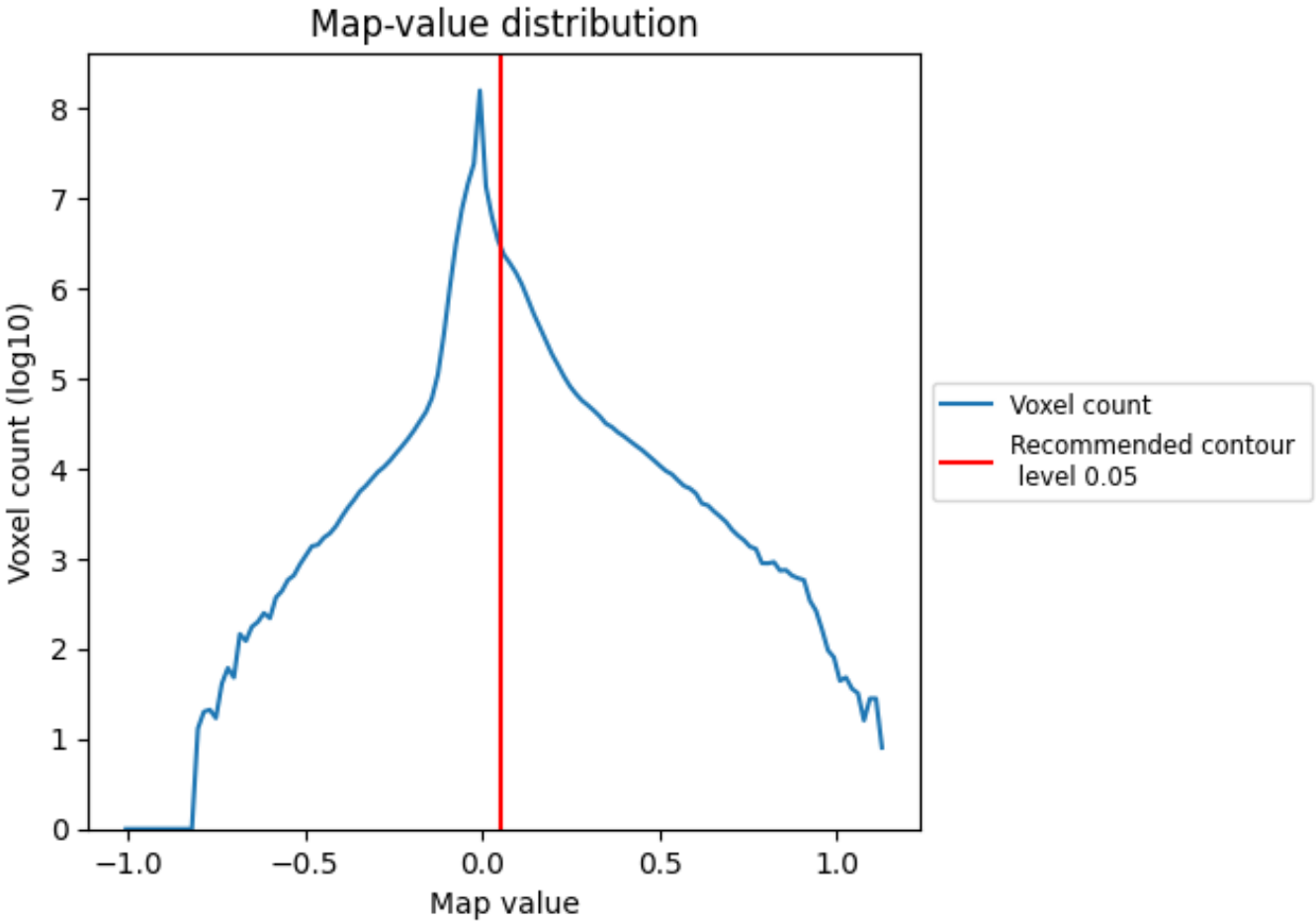
6.6 Mask visualisation (i)

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

7 Map analysis

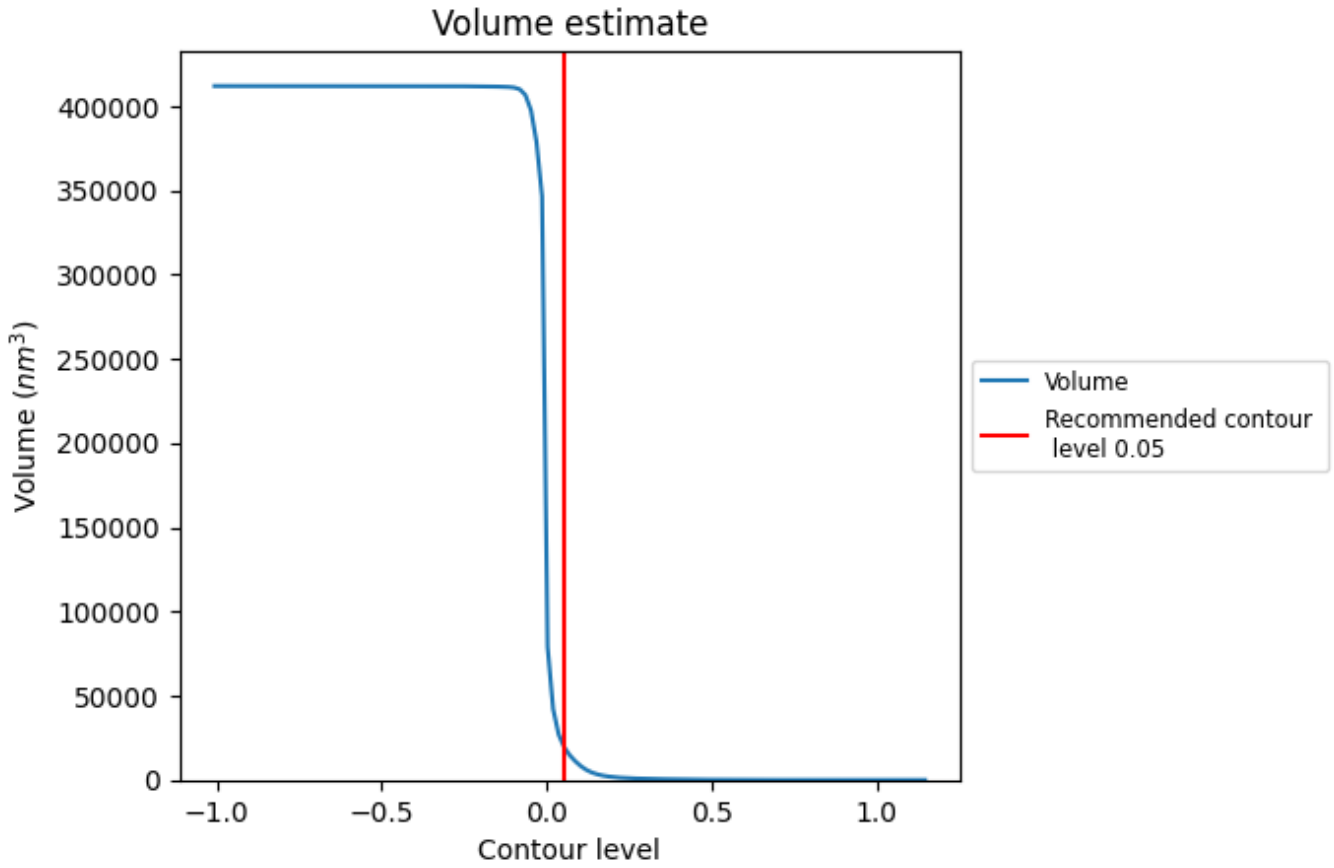
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

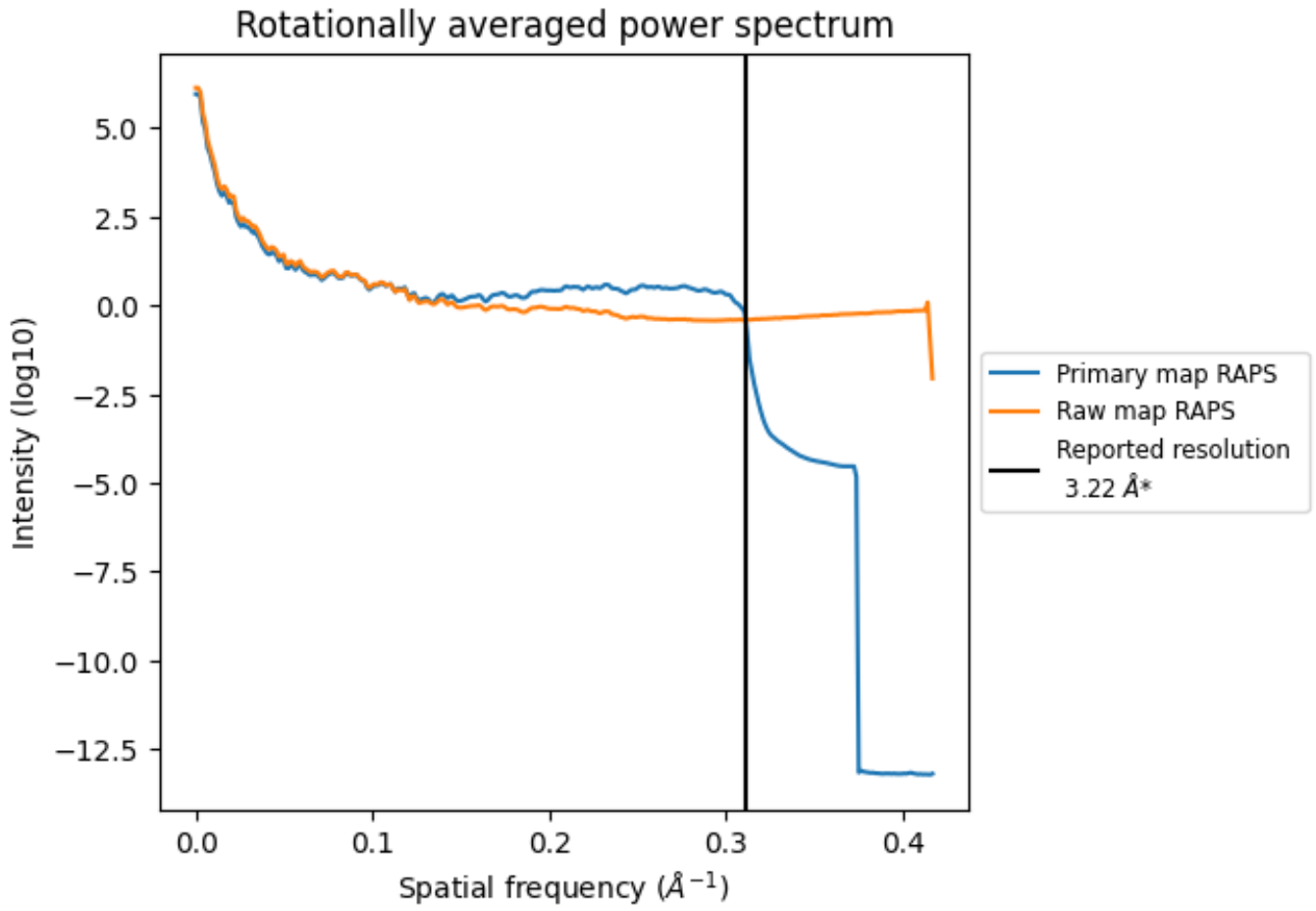
7.2 Volume estimate



The volume at the recommended contour level is 20676 nm^3; this corresponds to an approximate mass of 18677 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)

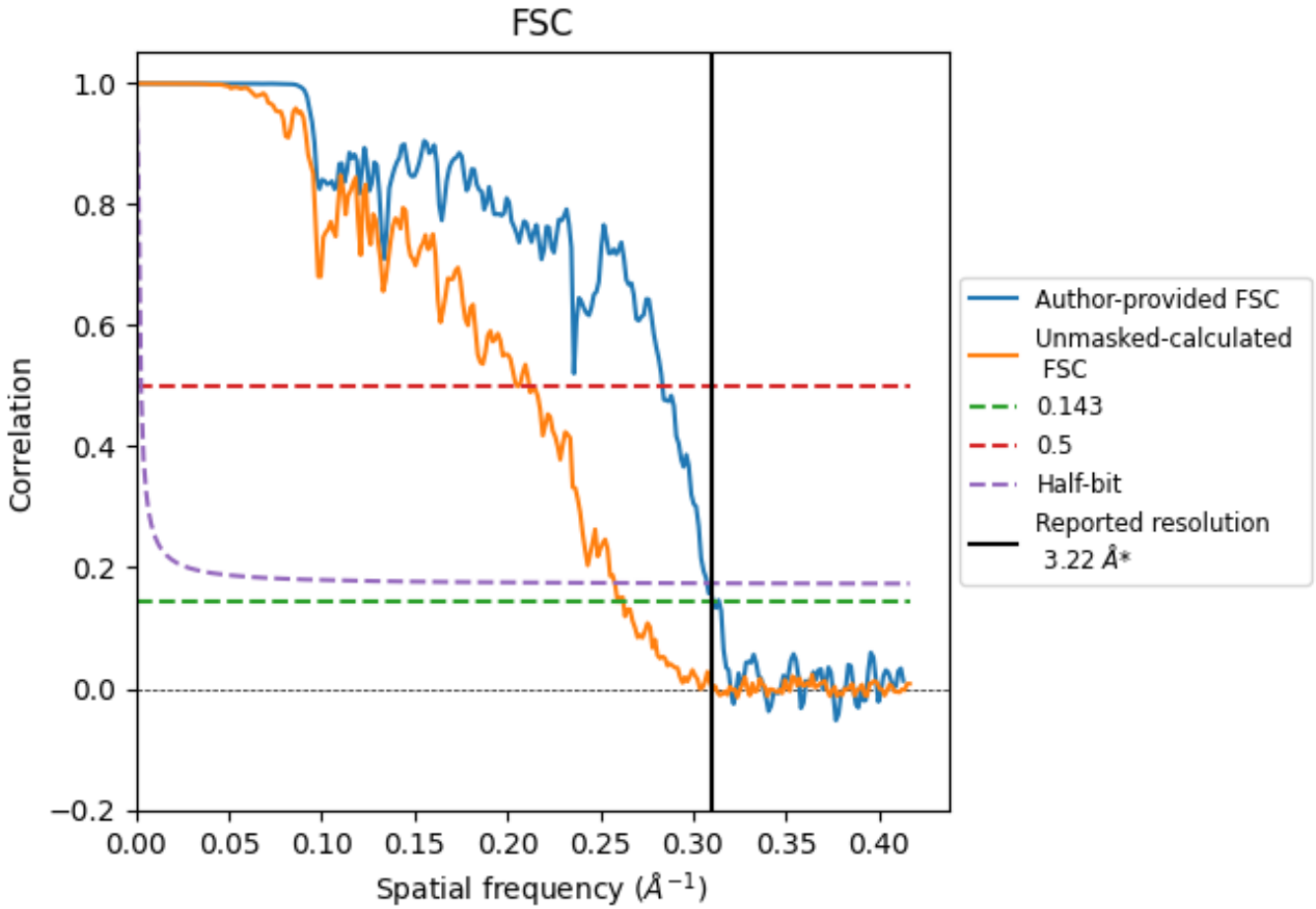


*Reported resolution corresponds to spatial frequency of 0.311 $Å^{-1}$

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 0.311 Å^{-1}

8.2 Resolution estimates (i)

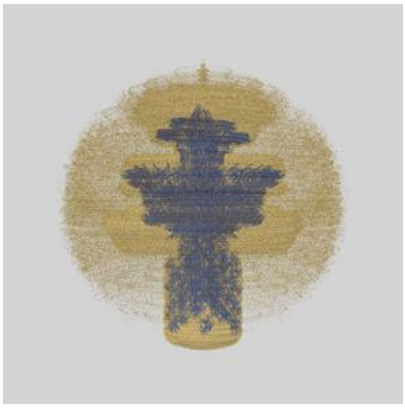
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.22	-	-
Author-provided FSC curve	3.22	3.53	3.25
Unmasked-calculated*	3.81	4.87	3.88

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.81 differs from the reported value 3.22 by more than 10 %

9 Map-model fit

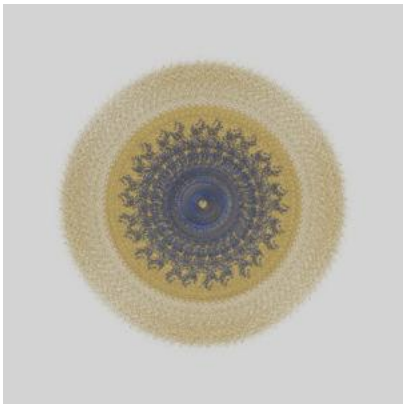
This section contains information regarding the fit between EMDB map EMD-39790 and PDB model 8Z60. Per-residue inclusion information can be found in section 3 on page 41.

9.1 Map-model overlay



X

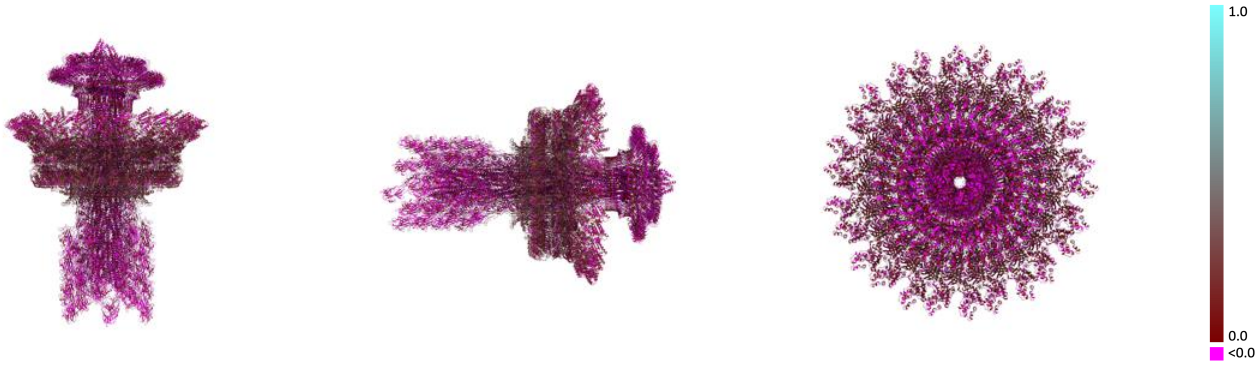
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.05 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.

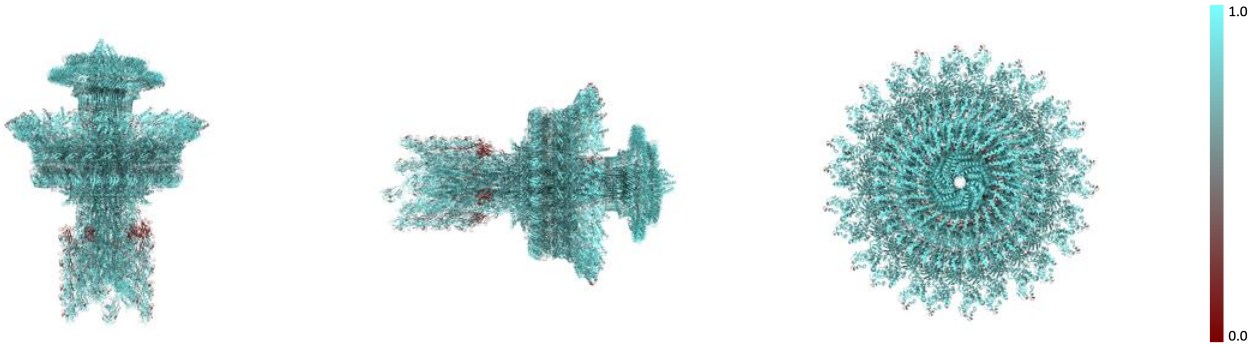
9.2 Q-score mapped to coordinate model (i)



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.

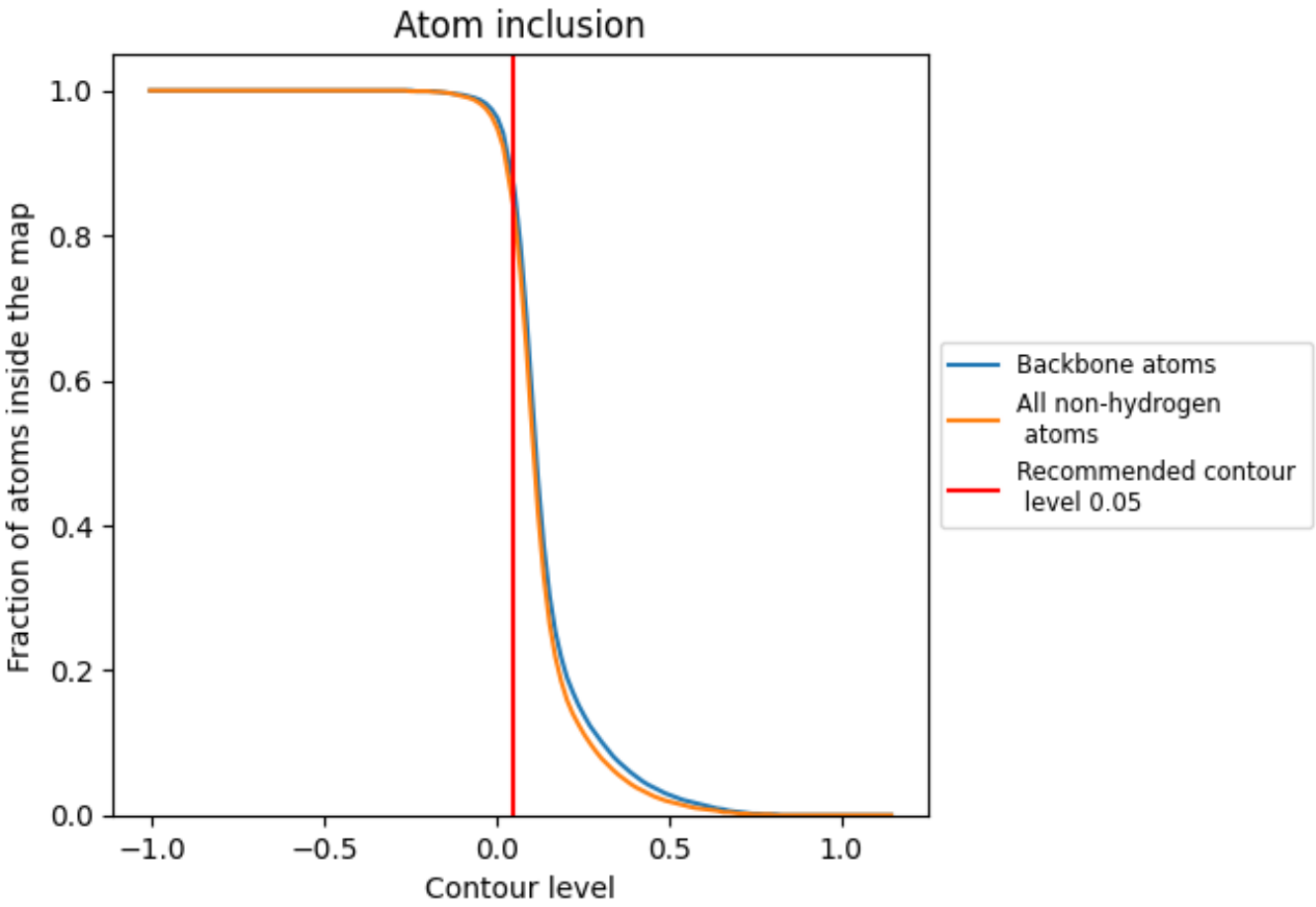
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.05).

9.4 Atom inclusion (i)



At the recommended contour level, 87% of all backbone atoms, 84% 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 (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8370	0.0960
0	0.1540	-0.0150
1	0.8530	0.0110
2	0.8640	0.0340
3	0.9200	-0.0200
4	0.9580	0.0060
5	0.9480	0.0040
6	0.9760	0.0260
7	0.9730	0.0650
8	0.9360	-0.0120
9	0.2150	0.0180
A	0.8830	0.0520
A0	0.8000	0.2080
A1	0.6480	0.0340
A2	0.6130	0.0170
A3	0.5970	0.0240
A4	0.8130	0.2290
A5	0.7790	0.1700
A6	0.6460	0.0570
A7	0.8170	0.2080
A8	0.8080	0.1920
A9	0.8110	0.2290
AA	0.5330	0.0010
AB	0.6440	-0.0480
AC	0.7700	0.0060
AD	0.7930	-0.0020
AE	0.8070	0.0040
AF	0.5570	-0.0590
AG	0.8080	0.0550
AH	0.7810	-0.0120
AI	0.7400	0.0230
AJ	0.5090	0.0130
AK	0.8520	-0.0230
AL	0.9090	-0.0060
AM	0.8840	-0.0660

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Chain	Atom inclusion	Q-score
AN	0.8930	-0.0060
AO	0.9320	-0.0180
AP	0.8930	0.0700
AQ	0.8800	0.0420
AR	0.8770	0.0590
AS	0.8820	0.0590
AT	0.8860	0.0530
AU	0.8880	0.0530
AV	0.8790	0.0550
AW	0.8680	0.0610
AX	0.8700	0.0540
AY	0.9320	0.0520
AZ	0.9260	0.0580
Aa	0.9150	0.0620
Ab	0.8550	0.0050
Ac	0.8440	0.0070
Ad	0.8420	0.0060
Ae	0.8470	0.0240
Af	0.8470	0.0210
Ag	0.8500	0.0010
Ah	0.8470	-0.0010
Ai	0.8530	0.0120
Aj	0.8330	0.0120
Ak	0.8380	0.0220
Al	0.8400	0.0170
Am	0.8330	-0.0030
An	0.8380	0.0150
Ao	0.8250	0.0100
Ap	0.8240	0.0220
Aq	0.8220	0.0220
Ar	0.7990	-0.0070
As	0.8170	0.0120
At	0.8040	0.0090
Au	0.7830	0.0130
Av	0.7640	0.0230
Aw	0.7540	0.0220
Ax	0.7330	0.0120
Ay	0.7150	0.0270
Az	0.6840	0.0260
B	0.8920	0.0640
B0	0.6610	0.0650
B1	0.7850	0.1500

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Chain	Atom inclusion	Q-score
B2	0.7960	0.2260
B3	0.7580	0.1600
B4	0.6770	0.0360
B5	0.8200	0.2120
B6	0.7990	0.1720
B7	0.8190	0.1960
B8	0.8130	0.2290
B9	0.7790	0.1680
BA	0.6310	-0.0230
BB	0.8260	0.2040
BC	0.8190	0.1960
BD	0.8040	0.2280
BE	0.7580	0.1960
BF	0.7230	-0.0020
BG	0.8200	0.2040
BH	0.7980	0.1860
BI	0.7960	0.2260
BJ	0.7790	0.1880
BK	0.7390	0.0490
BL	0.8190	0.2050
BM	0.7910	0.1640
BN	0.7840	0.2270
BO	0.8000	0.1930
BP	0.7230	0.0090
BQ	0.8220	0.2080
BR	0.7770	0.1480
BS	0.7900	0.2290
BT	0.8000	0.1740
BU	0.6920	-0.0010
BV	0.8250	0.2090
BW	0.7930	0.1600
BX	0.8010	0.2300
BY	0.7790	0.1650
BZ	0.6770	0.0800
Ba	0.8190	0.2100
Bb	0.8070	0.1850
Bc	0.8130	0.2330
Bd	0.8000	0.1900
Be	0.6460	0.0450
Bf	0.8230	0.2070
Bg	0.8170	0.1970
Bh	0.8050	0.2280

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Chain	Atom inclusion	Q-score
Bi	0.8000	0.2000
Bj	0.6610	-0.0270
Bk	0.8220	0.2040
Bl	0.8090	0.1920
Bm	0.8040	0.2260
Bn	0.7790	0.1830
Bo	0.7230	0.0140
Bp	0.8130	0.2030
Bq	0.7940	0.1740
Br	0.7870	0.2260
Bs	0.7790	0.1860
Bt	0.7080	0.0250
Bu	0.8220	0.2040
Bv	0.7860	0.1540
Bw	0.7880	0.2250
Bx	0.8210	0.1840
By	0.7080	-0.0130
Bz	0.8280	0.2090
C	0.8870	0.0610
C0	0.7580	0.1570
C1	0.7080	0.0210
C2	0.8230	0.2070
C3	0.7860	0.1530
C4	0.7890	0.2260
C5	0.8210	0.1840
C6	0.7080	-0.0090
C7	0.8290	0.2110
C8	0.7860	0.1490
C9	0.7950	0.2290
CA	0.8180	0.2100
CB	0.8080	0.1910
CC	0.8100	0.2300
CD	0.8000	0.1950
CE	0.6310	-0.0210
CF	0.8260	0.2060
CG	0.8530	0.1560
CH	0.6770	0.0290
CI	0.8210	0.2120
CJ	0.7980	0.1730
CK	0.8040	0.2280
CL	0.7580	0.1800
CM	0.7230	-0.0020

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Chain	Atom inclusion	Q-score
CN	0.8200	0.2040
CO	0.7980	0.1850
CP	0.7960	0.2260
CQ	0.7790	0.1680
CR	0.7390	0.0360
CS	0.8190	0.2040
CT	0.7910	0.1640
CU	0.7850	0.2250
CV	0.8000	0.1930
CW	0.7080	0.0020
CX	0.8220	0.2080
CY	0.7770	0.1470
CZ	0.7900	0.2270
Ca	0.8000	0.1720
Cb	0.6920	0.0120
Cc	0.8250	0.2100
Cd	0.7930	0.1580
Ce	0.8010	0.2280
Cf	0.7890	0.1580
Cg	0.6770	0.0750
Ch	0.8200	0.2120
Ci	0.8080	0.1830
Cj	0.8120	0.2310
Ck	0.8000	0.1840
Cl	0.6460	0.0320
Cm	0.8230	0.2070
Cn	0.8180	0.1940
Co	0.8060	0.2270
Cp	0.8000	0.1980
Cq	0.6310	-0.0230
Cr	0.8230	0.2050
Cs	0.8090	0.1900
Ct	0.8020	0.2240
Cu	0.7680	0.1840
Cv	0.7230	0.0150
Cw	0.8130	0.2050
Cx	0.7930	0.1730
Cy	0.7870	0.2250
Cz	0.7790	0.1820
D	0.8470	0.0010
D0	0.4770	0.1640
D1	0.9480	0.0400

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Chain	Atom inclusion	Q-score
D2	0.9420	0.0460
D3	0.9360	0.0450
D4	0.9350	0.0430
D5	0.9370	0.0350
D6	0.3620	0.0060
D7	0.5580	0.0700
D8	0.4170	-0.0210
D9	0.3960	0.0290
DA	0.8580	0.1350
DB	0.8340	0.0760
DC	0.8390	0.1020
DD	0.8630	0.1570
DE	0.8650	0.1690
DF	0.8340	0.0880
DG	0.8410	0.1010
DH	0.8420	0.1400
DI	0.8630	0.1600
DJ	0.8180	0.0980
DK	0.8360	0.0800
DL	0.8540	0.1450
DM	0.8620	0.1360
DN	0.8350	0.0760
DO	0.8360	0.0840
DP	0.8610	0.1630
DQ	0.8690	0.1610
DR	0.8300	0.1110
DS	0.8470	0.0910
DT	0.8420	0.1430
DU	0.8630	0.1590
DV	0.8350	0.0940
DW	0.8370	0.0740
DX	0.8530	0.1410
DY	0.8590	0.1420
DZ	0.8390	0.0910
Da	0.8370	0.0820
Db	0.8620	0.1670
Dc	0.8630	0.1500
Dd	0.8410	0.1180
De	0.8630	0.1000
Df	0.8520	0.1480
Dg	0.8660	0.1610
Dh	0.8260	0.0810

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Chain	Atom inclusion	Q-score
Di	0.8440	0.0930
Dj	0.8480	0.1420
Dk	0.8590	0.1530
Dl	0.8460	0.1050
Dm	0.8420	0.0960
Dn	0.8600	0.1650
Do	0.8610	0.1410
Dp	0.8420	0.0990
Dq	0.8510	0.1130
Dr	0.8610	0.1520
Ds	0.8670	0.1650
Dt	0.8220	0.0770
Du	0.8490	0.1020
Dv	0.8420	0.1380
Dw	0.8660	0.1590
Dx	0.8370	0.1010
Dy	0.8440	0.0950
Dz	0.9480	0.0280
E	0.8750	0.0000
E1	0.9470	0.0190
E2	0.9570	0.0210
E3	0.9600	0.0140
E4	0.9570	0.0170
E5	0.9600	0.0210
EA	0.6790	0.1430
EB	0.6910	0.1390
EC	0.7140	0.1040
ED	0.5240	0.0620
EE	0.2980	-0.0140
EF	0.3690	0.0520
EG	0.9390	0.0280
EH	0.9350	0.0270
EI	0.9470	0.0310
EJ	0.9510	0.0330
EK	0.9550	0.0330
EL	0.9550	0.0310
EM	0.9490	0.0210
EN	0.9470	0.0240
EO	0.9400	0.0360
EP	0.9340	0.0370
EQ	0.9250	0.0360
ER	0.9110	0.0320

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Chain	Atom inclusion	Q-score
ES	0.9060	0.0300
ET	0.9100	0.0290
EU	0.9150	0.0290
EV	0.9170	0.0320
EW	0.9210	0.0330
EX	0.9360	-0.0110
EY	0.9290	0.0340
EZ	0.9270	0.0050
Ea	0.8950	0.0040
Eb	0.9360	0.0150
Ec	0.9480	0.0150
Ed	0.9470	-0.0080
Ee	0.9300	0.0150
Ef	0.9440	-0.0110
Eg	0.9530	0.0230
Eh	0.9350	0.0000
Ei	0.8970	-0.0150
Ej	0.9300	0.0290
Ek	0.9520	0.0250
El	0.9360	0.0270
Em	0.9380	0.0260
En	0.9130	0.0150
Eo	0.8950	0.0130
Ep	0.9040	0.0400
Eq	0.8920	0.0170
Er	0.8450	0.0150
Es	0.8460	-0.0030
Et	0.8240	-0.0140
Eu	0.9170	0.0320
Ev	0.9200	0.0250
Ew	0.9240	0.0190
Ex	0.9290	0.0190
Ey	0.9320	0.0200
Ez	0.9380	0.0160
F	0.8650	0.0300
G	0.8640	0.0060
H	0.8630	0.0140
I	0.8510	0.0050
J	0.8730	-0.0120
K	0.8630	-0.0030
L	0.8600	0.0080
M	0.8600	0.0160

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Chain	Atom inclusion	Q-score
N	0.8540	0.0080
O	0.8590	0.0090
P	0.9080	0.0680
Q	0.8820	0.0260
R	0.8780	0.0610
S	0.8830	0.0360
T	0.8840	0.0570
U	0.8860	0.0630
V	0.8770	0.0670
W	0.8610	0.0560
X	0.8580	0.0430
Y	0.8810	0.0490
Z	0.8860	0.0670
a	0.8850	0.0620
b	0.7770	0.0020
c	0.8710	0.0270
d	0.8560	0.0200
e	0.8160	0.0070
f	0.8080	0.0160
g	0.8780	-0.0010
h	0.9450	0.0380
i	0.9130	0.0290
j	0.9230	0.0320
k	0.9300	0.0350
l	0.8980	0.0060
m	0.8440	0.0440
n	0.8770	0.0520
o	0.8700	0.0590
p	0.8240	0.0230
q	0.7900	-0.0060
r	0.8860	0.0190
s	0.8980	0.0660
t	0.8500	0.0330
u	0.8830	0.0450
v	0.8660	0.0120
w	0.8820	0.0110
x	0.9890	-0.0000
y	0.9140	0.0370
z	0.8990	0.0280