



wwPDB EM Validation Summary Report ⓘ

Aug 2, 2023 – 01:00 PM JST

PDB ID : 8J07
EMDB ID : EMD-35888
Title : 96nm repeat of human respiratory doublet microtubule and associated axone-
mal complexes
Authors : Gui, M.; Brown, A.
Deposited on : 2023-04-09
Resolution : 4.10 Å(reported)

This is a wwPDB EM Validation Summary 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.dev50
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.34

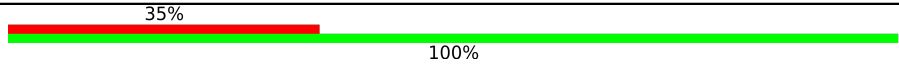
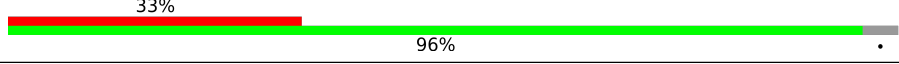


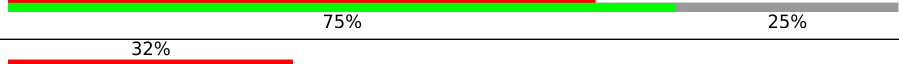

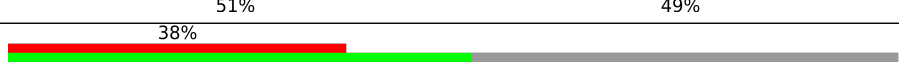
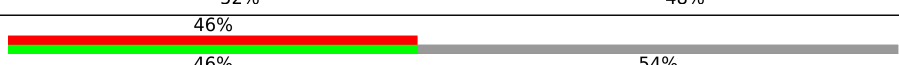



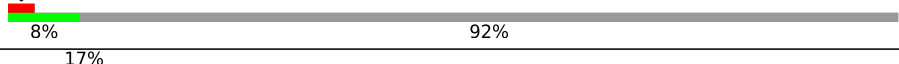





1 Overall quality at a glance

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

The reported resolution of this entry is 4.10 Å.

There are no overall percentile quality scores available for this entry.

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

Mol	Chain	Length	Quality of chain
1	0	478	 35% 100%
1	4	478	 33% 96% .
2	1	740	 30% 73% 27%
3	10	449	 35% 77% 23%
4	11	822	 66% 75% 25%
5	12	269	 32% 44% 56%
5	13	269	 42% 51% 49%
5	14	269	 38% 52% 48%
5	8	269	 46% 46% 54%
6	1A	833	 8% 63% 37%
6	1B	833	 9% 67% 33%
6	1C	833	 11% 89%
7	1D	551	 8% 92%
7	1E	551	 17% 69% 31%
7	1F	551	 20% 82% 18%
7	1G	551	 22% 78%
7	1H	551	 7% 32% 68%

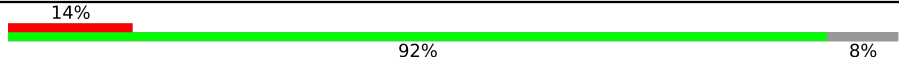
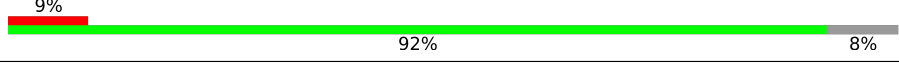
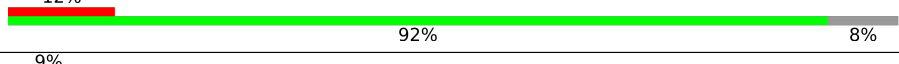
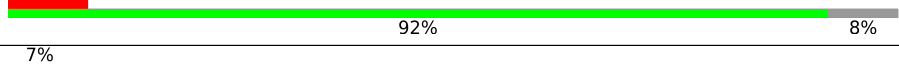
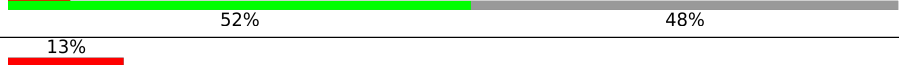
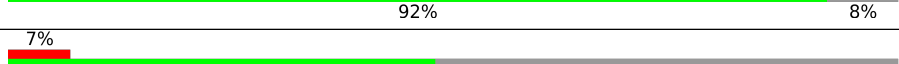
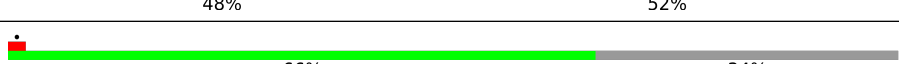
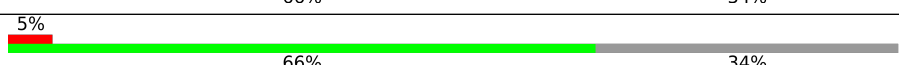
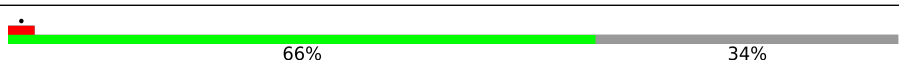


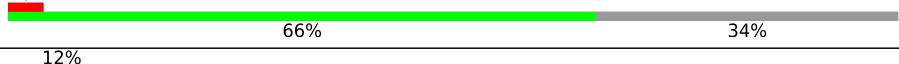
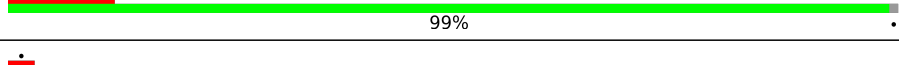

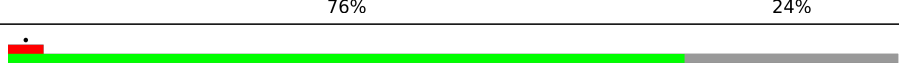




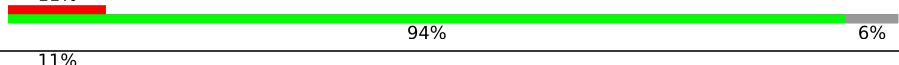
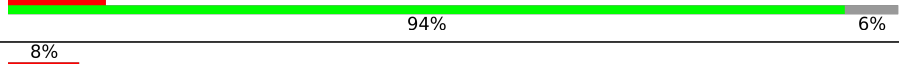
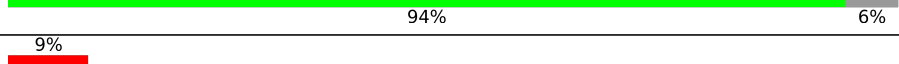



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Mol	Chain	Length	Quality of chain
7	1I	551	24% 83% 17%
7	1J	551	17% 60% 40%
8	1L	620	98%
8	1M	620	98%
8	1N	620	98%
8	1O	620	98%
8	1P	620	98%
8	1Q	620	5% 98%
9	1R	514	5% 36% 64%
9	1S	514	12% 90% 10%
9	1T	514	64% 36%
10	1V	229	13% 64% 36%
10	1W	229	12% 64% 36%
11	1Y	194	8% 89% 10%
11	1Z	194	8% 89% 11%
12	2	484	39% 96%
13	2A	177	66% 34%
13	2B	177	66% 34%
13	2C	177	66% 34%
13	2D	177	66% 34%
13	2E	177	66% 34%
13	2F	177	66% 34%
13	2G	177	45% 55%
14	2I	101	5% 50% 50%
14	2J	101	50% 50%

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Mol	Chain	Length	Quality of chain
15	2L	301	
15	2M	301	
15	2N	301	
15	2O	301	
16	2Q	552	
16	2R	552	
16	2S	552	
17	2U	169	
17	2V	169	
17	2W	169	
17	2X	169	
17	2Y	169	
17	2Z	169	
18	3	523	
19	3A	640	
19	3B	640	
19	3C	640	
19	3D	640	
19	3E	640	
19	3F	640	
20	3G	749	
20	3H	749	
20	3I	749	
20	3J	749	
20	3K	749	

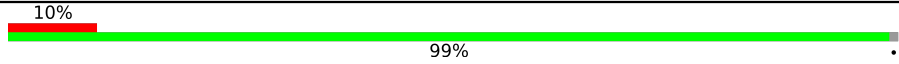
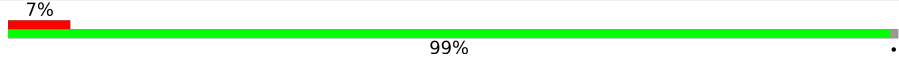
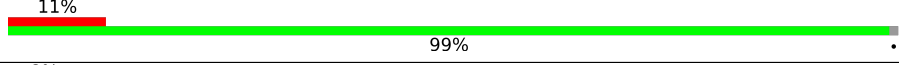
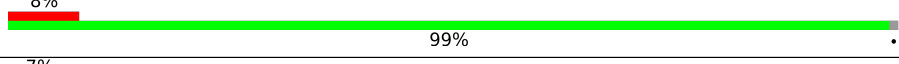
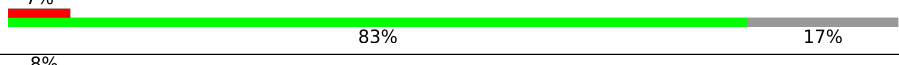
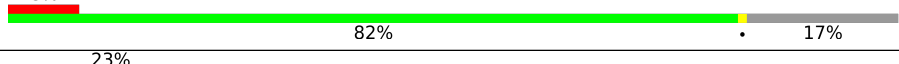
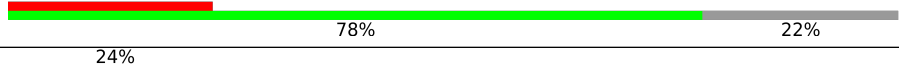




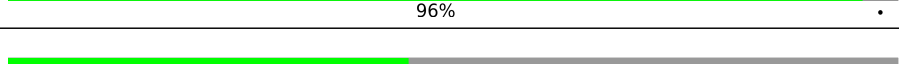

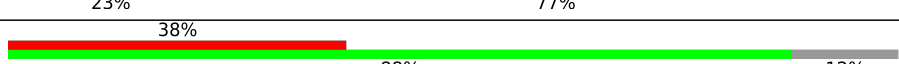
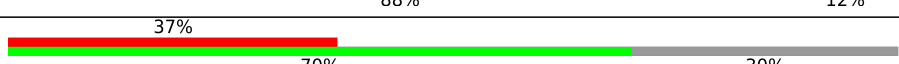


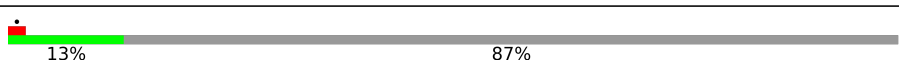
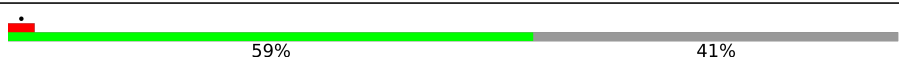


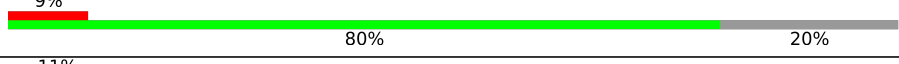
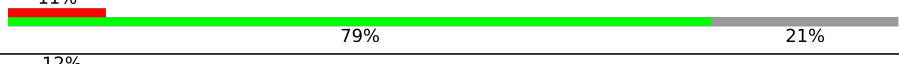


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Mol	Chain	Length	Quality of chain
20	3L	749	23% 94% 6%
20	3M	749	11% 92% 8%
21	3O	256	11% 62% 38%
21	3P	256	13% 97% .
21	3Q	256	7% 98% .
21	3R	256	14% 98% .
21	3S	256	16% 97% .
21	3T	256	9% 98% .
21	3U	256	14% 98% .
22	3W	495	10% 79% 21%
22	3X	495	12% 97% .
22	3Y	495	5% 29% 71%
23	4A	275	. 29% 71%
23	4B	275	46% 53% 47%
23	4C	275	17% 53% 47%
23	4D	275	39% 53% 47%
23	4E	275	11% 53% 47%
23	4F	275	50% 53% 47%
23	4G	275	13% 53% 47%
23	4H	275	46% 52% 47%
23	4I	275	13% 53% 47%
23	4J	275	28% 52% 47%
23	4K	275	24% 53% 47%
23	4L	275	52% 53% 47%
23	4M	275	19% 53% 47%

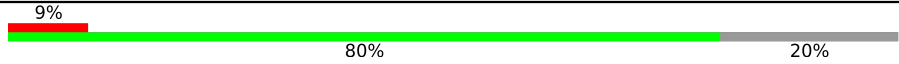

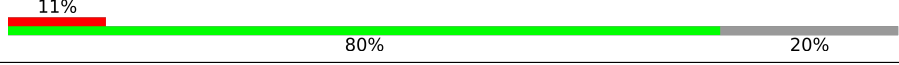

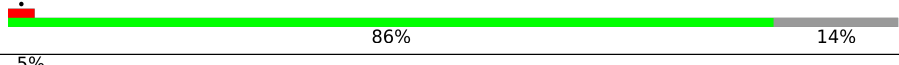
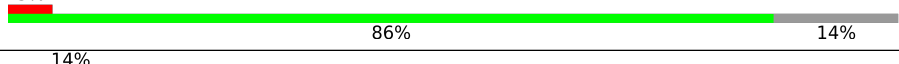
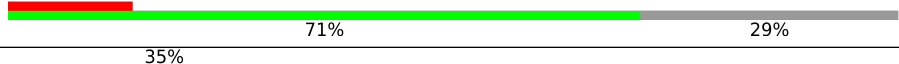

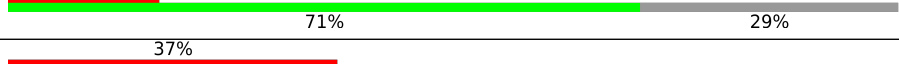


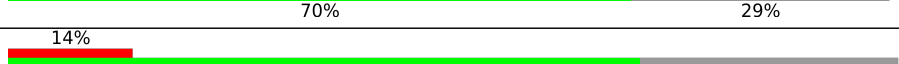
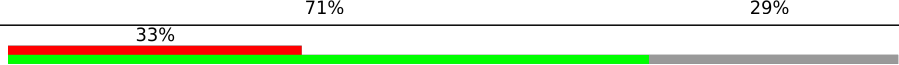
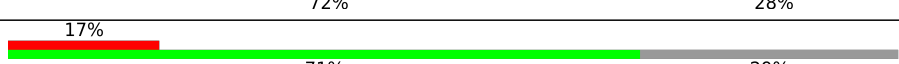

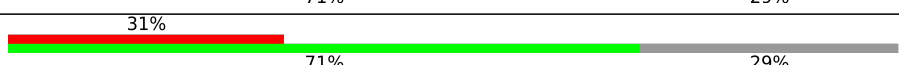
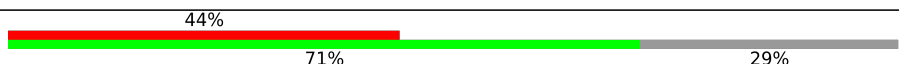
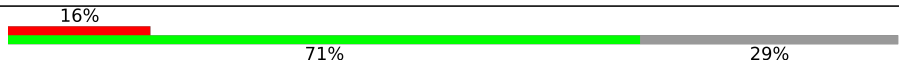
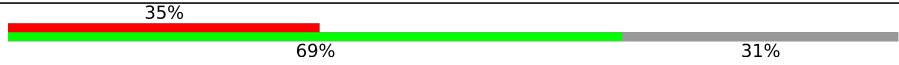

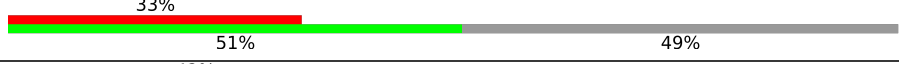
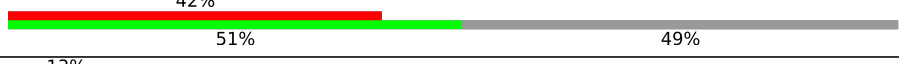
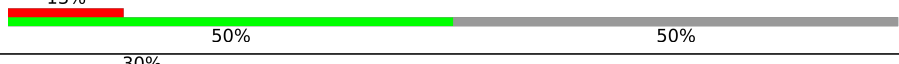
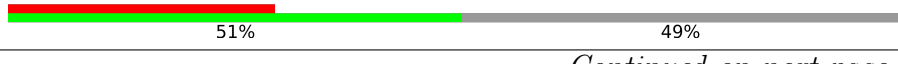

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Mol	Chain	Length	Quality of chain
24	4O	376	
24	4P	376	
24	4Q	376	
24	4R	376	
25	4S	136	
25	4T	136	
26	4U	121	
26	4V	121	
26	4W	121	
27	5	501	
28	5A	382	
28	5B	382	
28	5C	382	
29	5D	379	
29	5E	379	
29	5F	379	
30	5H	485	
30	5I	485	
30	5J	485	
31	5L	150	
31	5M	150	
32	5O	284	
32	5P	284	
32	5Q	284	
32	5R	284	

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Mol	Chain	Length	Quality of chain
32	5S	284	
32	5T	284	
32	5U	284	
32	5V	284	
33	5X	147	
33	5Y	147	
34	6A	222	
34	6C	222	
34	6E	222	
34	6G	222	
34	6I	222	
34	6K	222	
34	6L	222	
34	6N	222	
34	6O	222	
34	6Q	222	
34	6R	222	
34	6T	222	
34	6V	222	
35	7	874	
36	7A	201	
36	7B	201	
36	7C	201	
36	7D	201	
36	7E	201	

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Mol	Chain	Length	Quality of chain
36	7F	201	
36	7G	201	
37	7I	134	
37	7J	134	
38	8A	418	
38	8B	418	
38	8C	418	
38	8D	418	
38	8E	418	
38	8F	418	
38	8G	418	
38	8H	418	
39	8J	430	
39	8K	430	
39	8L	430	
39	8M	430	
39	8N	430	
39	8O	430	
39	8P	430	
39	8Q	430	
40	9	443	
41	A	309	
41	B	309	
41	C	309	
41	D	309	

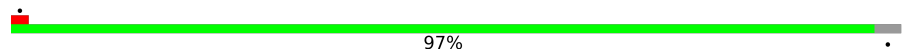
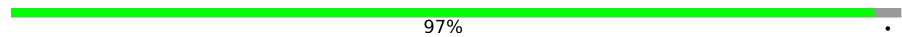
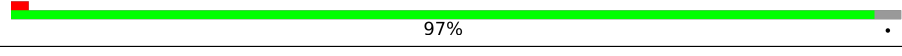
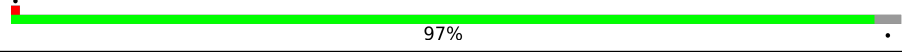
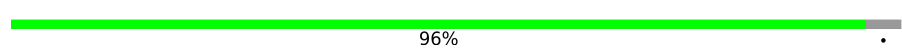
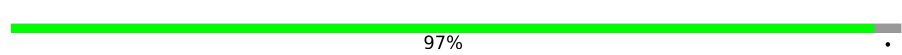
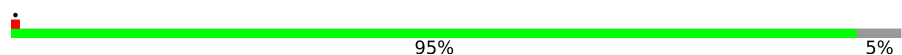
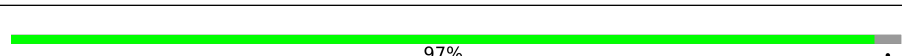
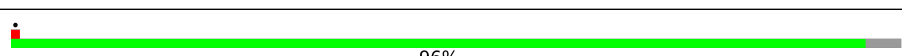
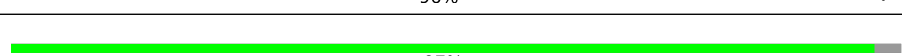
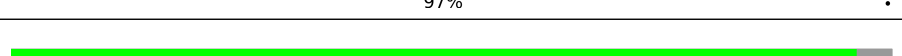
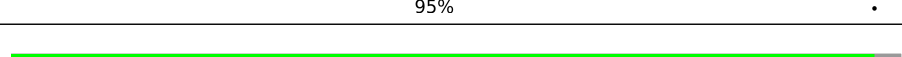
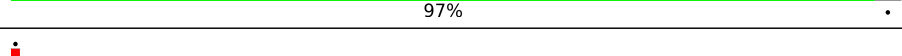
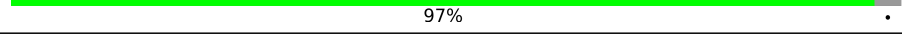
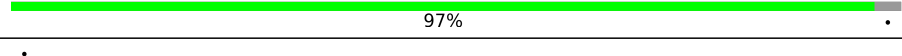
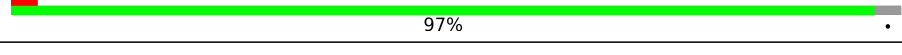
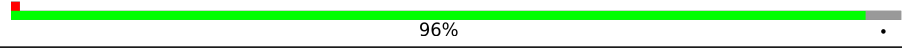
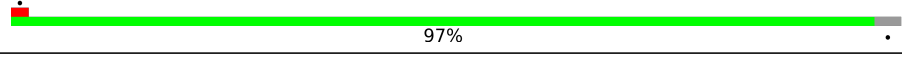
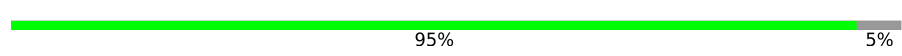
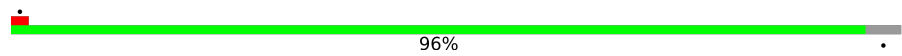
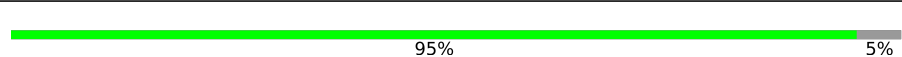
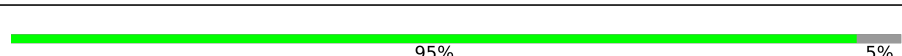
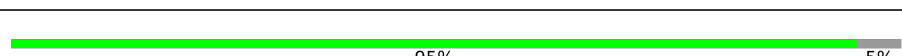
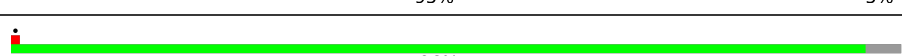
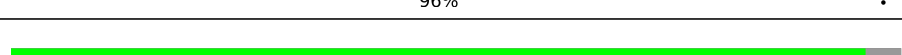
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Mol	Chain	Length	Quality of chain
41	a	309	
41	b	309	
41	c	309	
41	d	309	
42	AC	451	
42	AE	451	
42	AG	451	
42	AI	451	
42	AK	451	
42	AM	451	
42	AO	451	
42	AQ	451	
42	AS	451	
42	AU	451	
42	AW	451	
42	AY	451	
42	AZ	451	
42	BA	451	
42	BC	451	
42	BE	451	
42	BG	451	
42	BI	451	
42	BK	451	
42	BM	451	
42	BO	451	

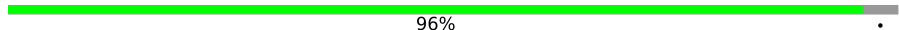
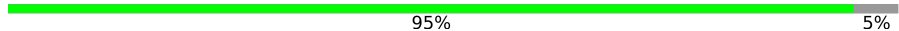
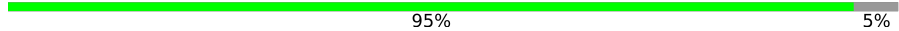
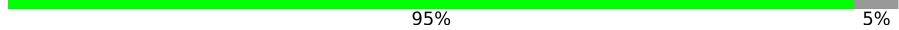
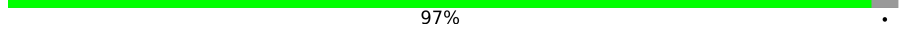
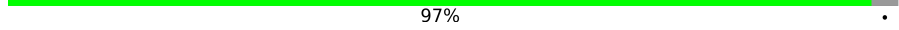
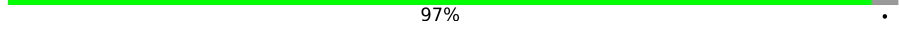
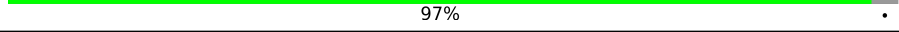
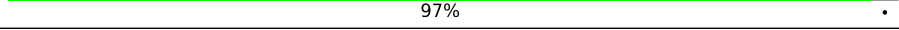
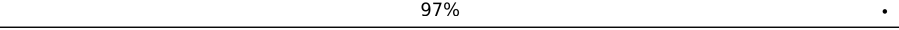
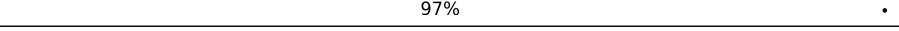
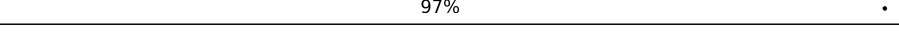
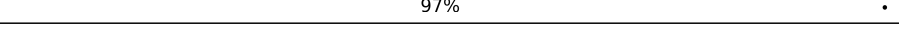
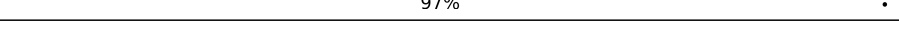
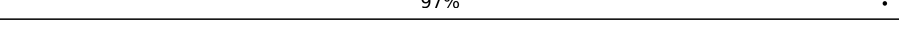
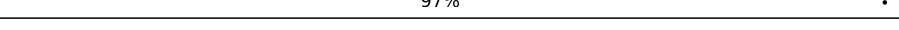
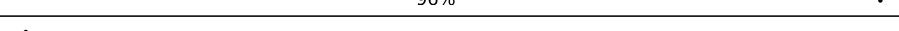
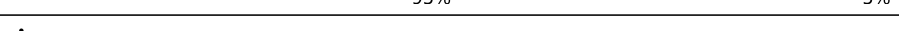
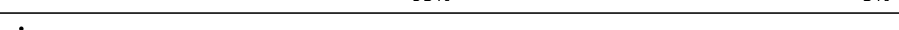
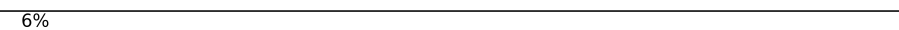

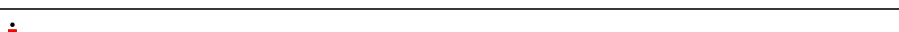
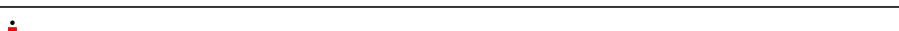


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Mol	Chain	Length	Quality of chain
42	BQ	451	 97%
42	BS	451	 97%
42	BU	451	 97%
42	BW	451	 97%
42	BY	451	 96%
42	CC	451	 97%
42	CE	451	 95% 5%
42	CG	451	 97%
42	CI	451	 96%
42	CK	451	 97%
42	CM	451	 95%
42	CO	451	 97%
42	CQ	451	 97%
42	CS	451	 97%
42	CU	451	 97%
42	CW	451	 96%
42	CY	451	 97%
42	DC	451	 95% 5%
42	DE	451	 96%
42	DG	451	 95% 5%
42	DI	451	 95% 5%
42	DK	451	 95% 5%
42	DM	451	 96%
42	DO	451	 96%
42	DQ	451	 95% 5%

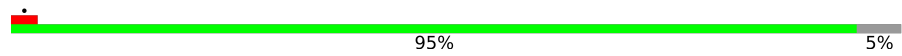
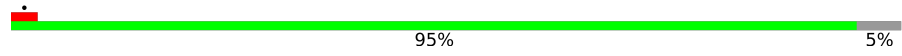
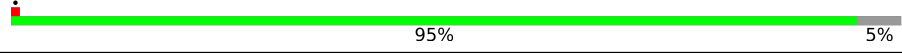
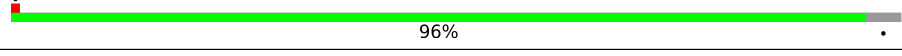
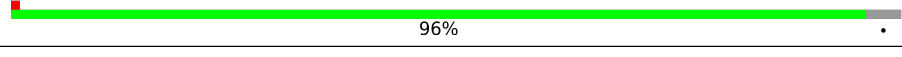
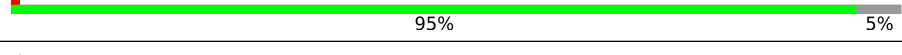
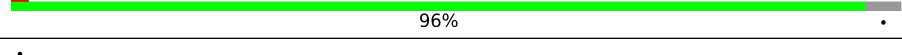
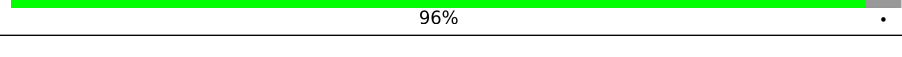
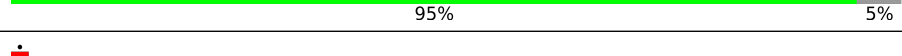
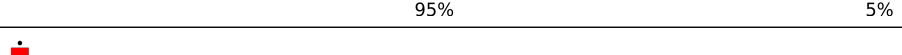
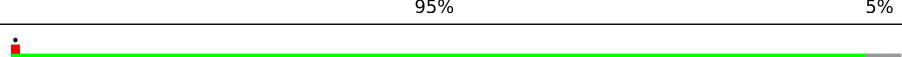
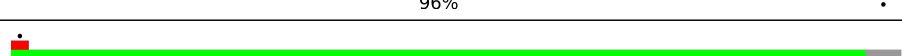
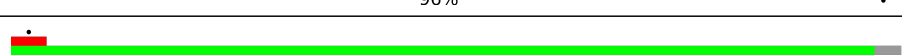
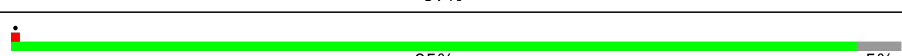
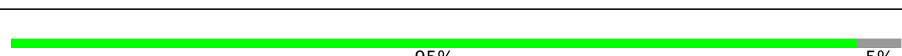
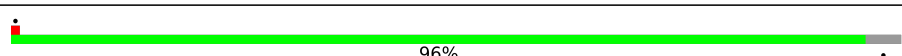
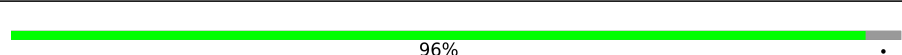
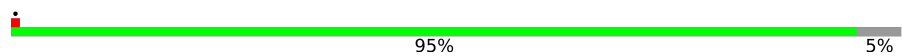
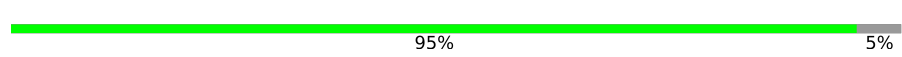
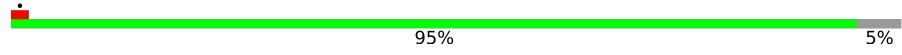
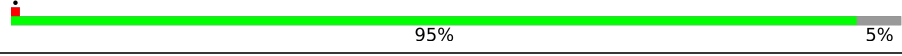
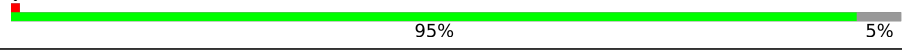
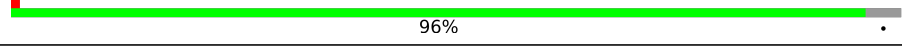
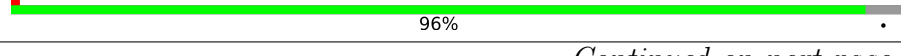

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Mol	Chain	Length	Quality of chain
42	DS	451	 96%
42	DU	451	 95% 5%
42	DW	451	 95% 5%
42	DY	451	 95% 5%
42	EC	451	 97%
42	EE	451	 97%
42	EG	451	 97%
42	EI	451	 97%
42	EK	451	 97%
42	EM	451	 97%
42	EO	451	 97%
42	EQ	451	 97%
42	ES	451	 97%
42	EU	451	 97%
42	EW	451	 97%
42	EY	451	 97%
42	FC	451	 96%
42	FE	451	 95% 5%
42	FG	451	 95% 5%
42	FI	451	 95% 5%
42	FK	451	 6% 95% 5%
42	FM	451	 95% 5%
42	FO	451	 95% 5%
42	FQ	451	 96%
42	FS	451	 96%

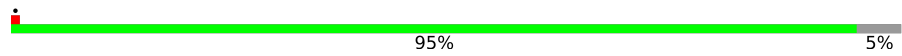
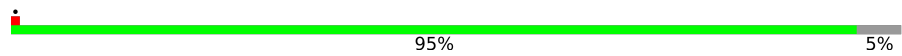
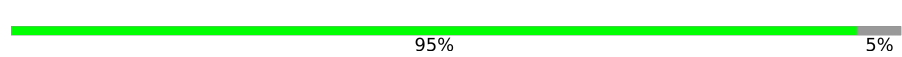
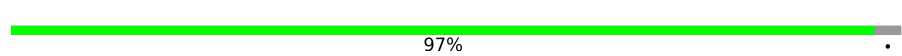
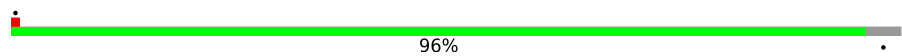
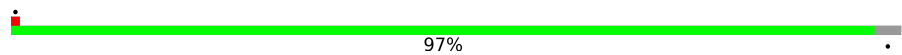
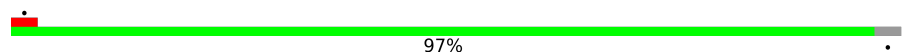
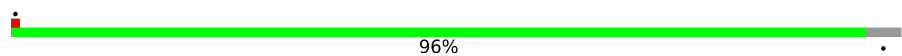
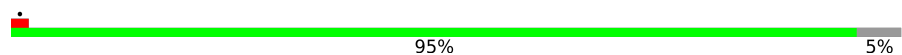
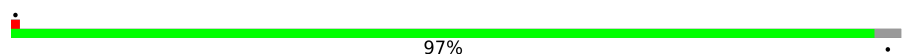
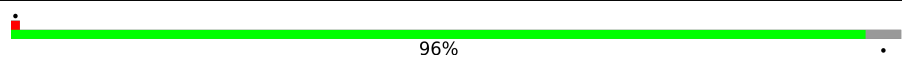
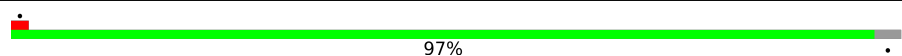
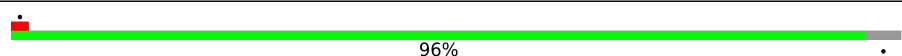
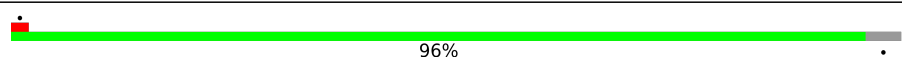
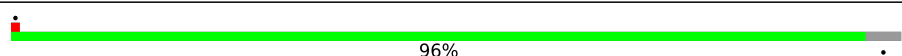
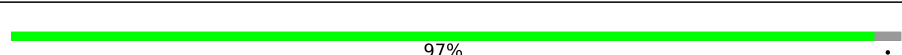
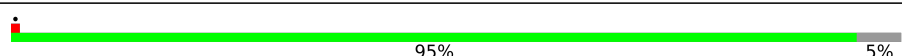
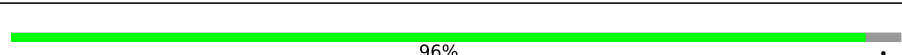
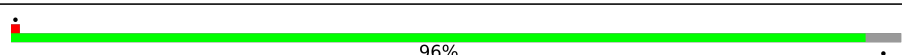
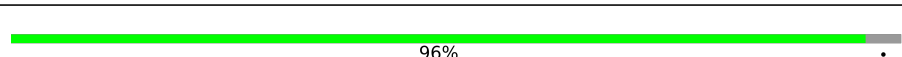
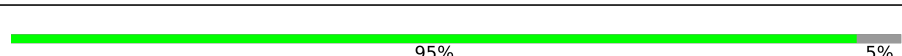
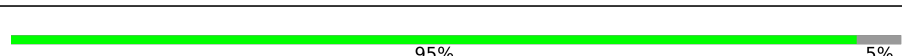
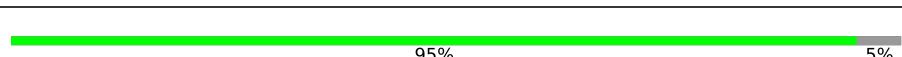
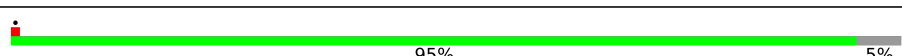
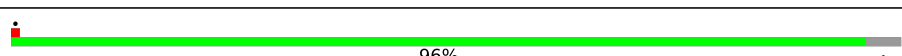
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Mol	Chain	Length	Quality of chain
42	FU	451	 95% 5%
42	FW	451	 95% 5%
42	FY	451	 95% 5%
42	GC	451	 96% .
42	GE	451	 96% .
42	GG	451	 95% 5%
42	GI	451	 96% .
42	GK	451	 96% .
42	GM	451	 95% 5%
42	GO	451	 95% 5%
42	GQ	451	 95% 5%
42	GS	451	 96% .
42	GU	451	 96% .
42	GW	451	 97% .
42	GY	451	 95% 5%
42	HA	451	 95% 5%
42	HC	451	 96% .
42	HE	451	 96% .
42	HG	451	 95% 5%
42	HI	451	 95% 5%
42	HK	451	 95% 5%
42	HM	451	 95% 5%
42	HO	451	 95% 5%
42	HQ	451	 96% .
42	HS	451	 96% .

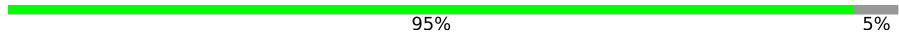
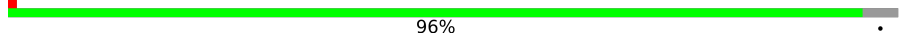
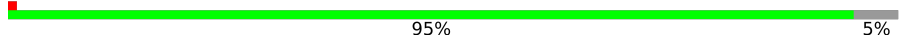
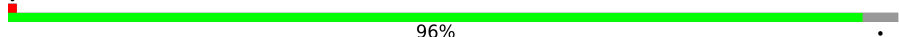
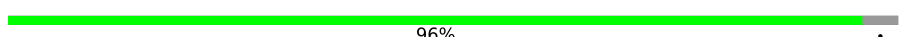
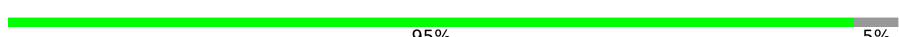
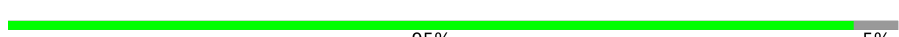



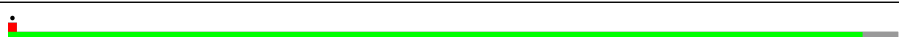


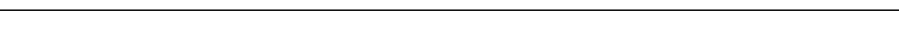
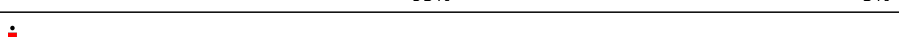
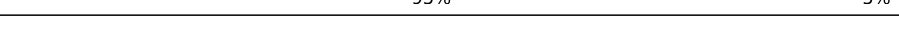
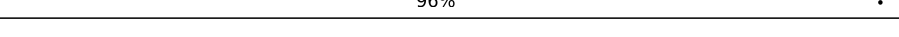
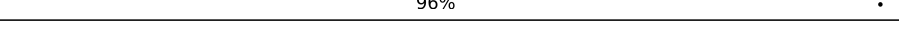
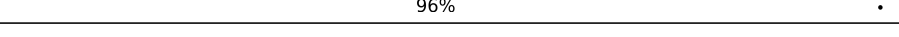
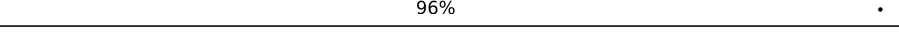
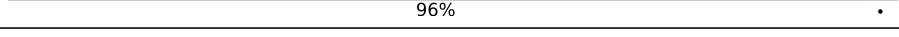
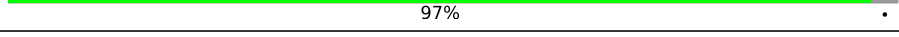
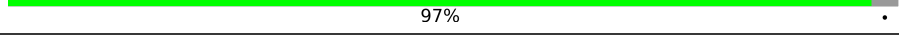
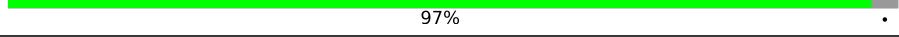
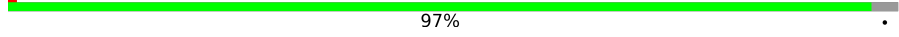
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Mol	Chain	Length	Quality of chain
42	HU	451	 95% 5%
42	HW	451	 95% 5%
42	HY	451	 95% 5%
42	IA	451	 97% .
42	IC	451	 96% .
42	IE	451	 97% .
42	IG	451	 97% .
42	II	451	 96% .
42	IK	451	 95% 5%
42	IM	451	 97% .
42	IO	451	 96% .
42	IQ	451	 97% .
42	IS	451	 96% .
42	IU	451	 96% .
42	IW	451	 96% .
42	IY	451	 97% .
42	JC	451	 95% 5%
42	JE	451	 96% .
42	JG	451	 96% .
42	JI	451	 96% .
42	JK	451	 95% 5%
42	JM	451	 95% 5%
42	JO	451	 95% 5%
42	JQ	451	 95% 5%
42	JS	451	 96% .

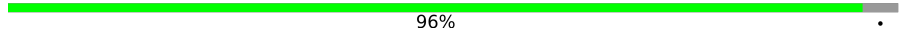
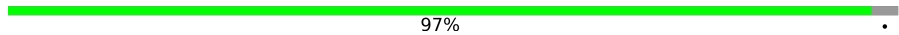
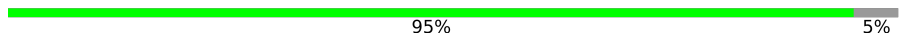
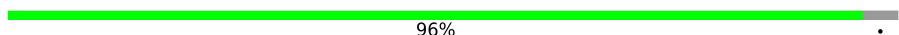
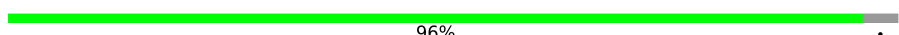
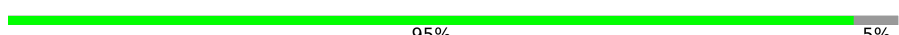
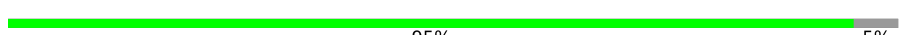




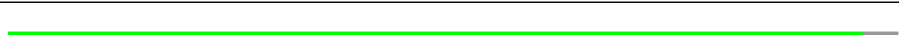

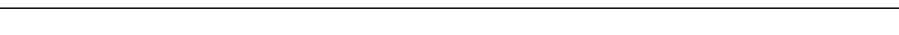
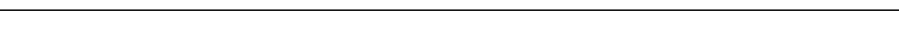
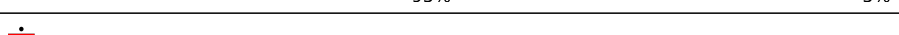
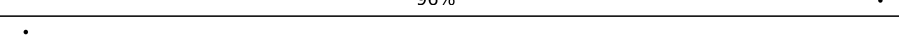
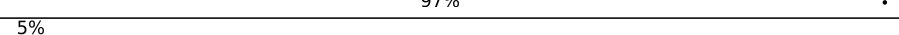
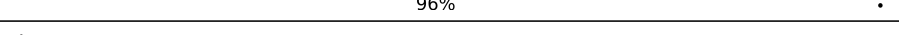
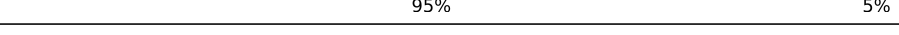
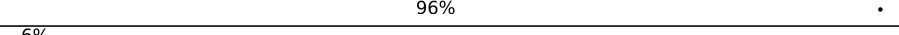
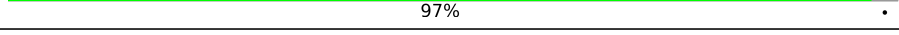
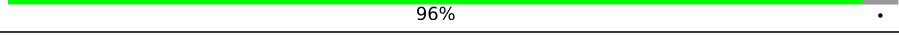
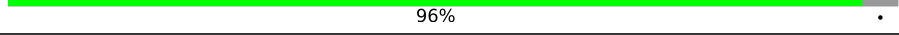
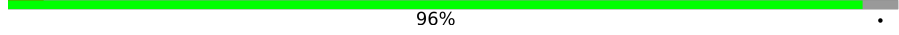
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Mol	Chain	Length	Quality of chain
42	JU	451	 95% 5%
42	JW	451	 96% .
42	JY	451	 95% 5%
42	KC	451	 96% .
42	KE	451	 96% .
42	KG	451	 95% 5%
42	KI	451	 95% 5%
42	KK	451	 95% 5%
42	KM	451	 95% 5%
42	KO	451	 95% 5%
42	KQ	451	 96% .
42	KS	451	 95% 5%
42	KU	451	 96% .
42	KW	451	 95% 5%
42	KY	451	 95% 5%
42	LC	451	 96% .
42	LE	451	 96% .
42	LG	451	 96% .
42	LI	451	 96% .
42	LK	451	 96% .
42	LM	451	 97% .
42	LO	451	 97% .
42	LQ	451	 97% .
42	LS	451	 97% .
42	LU	451	 96% .

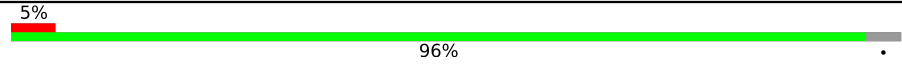
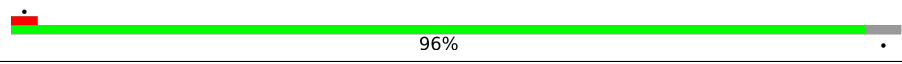
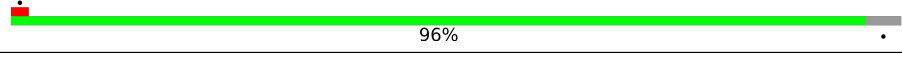
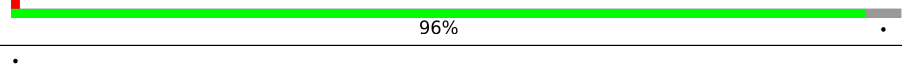
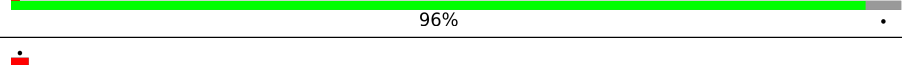
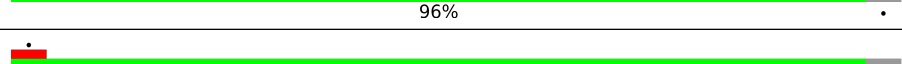
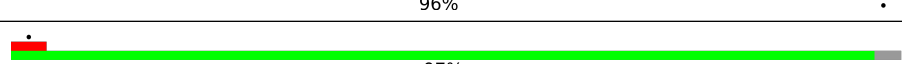
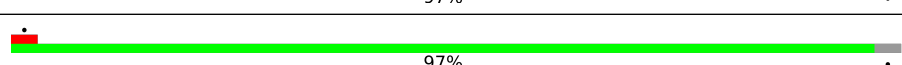
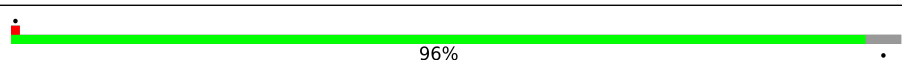
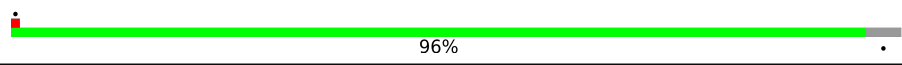
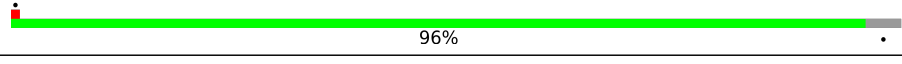
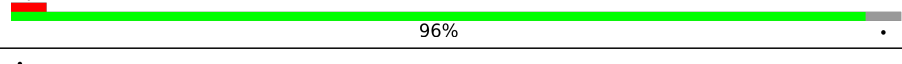
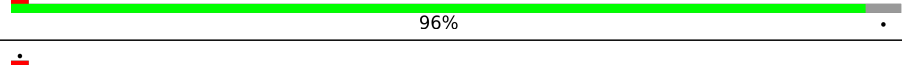
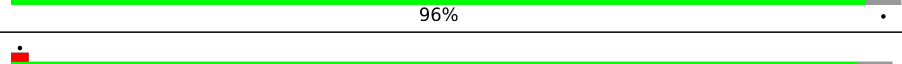
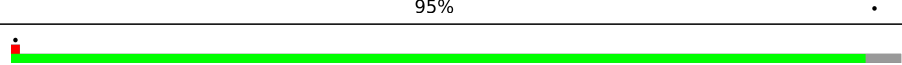
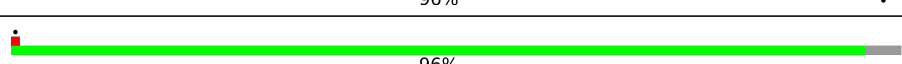
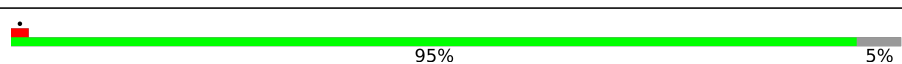
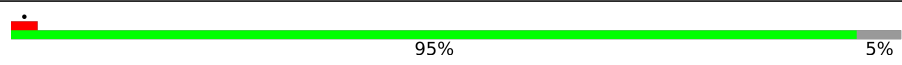
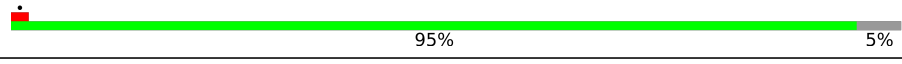
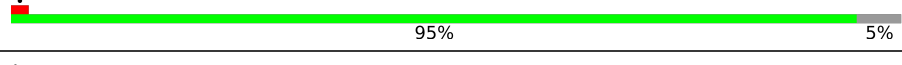
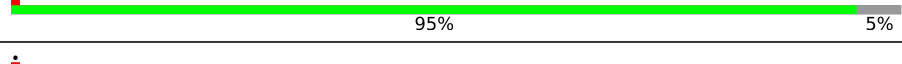
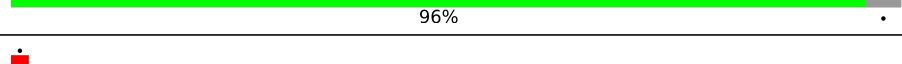
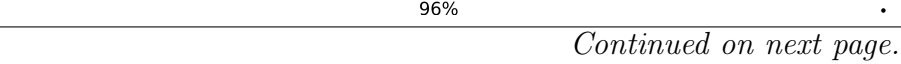


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Mol	Chain	Length	Quality of chain
42	LW	451	 96% .
42	LY	451	 97% .
42	MA	451	 95% 5%
42	MC	451	 96% .
42	ME	451	 96% .
42	MG	451	 95% 5%
42	MI	451	 95% 5%
42	MK	451	 95% 5%
42	MM	451	 95% 5%
42	MO	451	 95% 5%
42	MQ	451	 96% .
42	MS	451	 96% .
42	MU	451	 95% 5%
42	MW	451	 95% 5%
42	MY	451	 95% 5%
42	NA	451	 96% .
42	NC	451	 97% .
42	NE	451	 96% .
42	NG	451	 95% 5%
42	NI	451	 96% .
42	NK	451	 97% .
42	NM	451	 96% .
42	NO	451	 96% .
42	NQ	451	 96% .
42	NS	451	 96% .

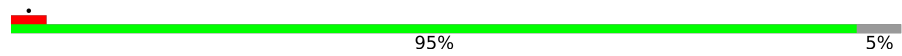
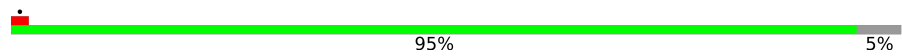
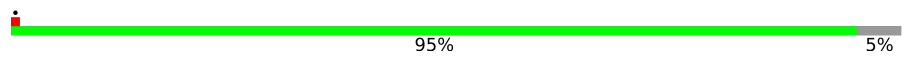
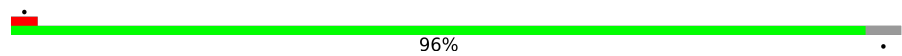
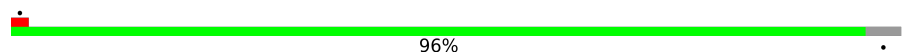
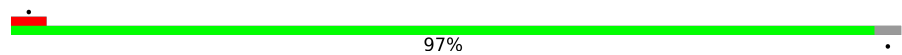
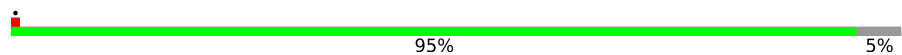
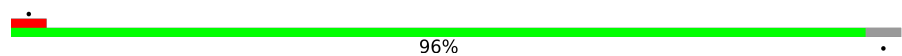
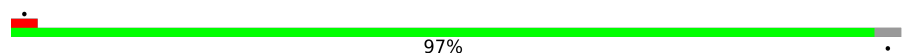
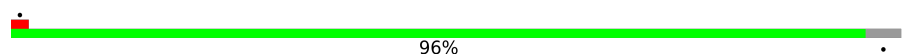
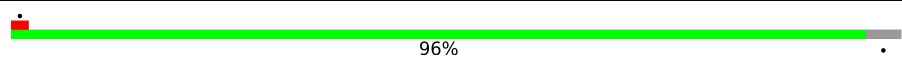
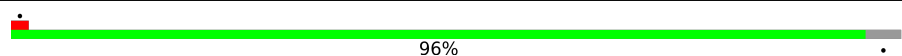
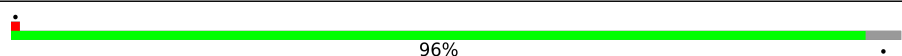
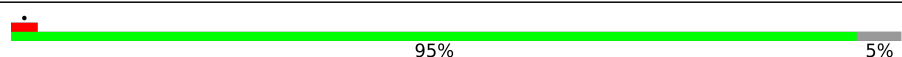
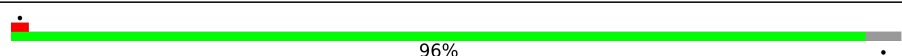
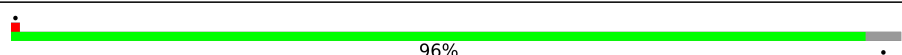
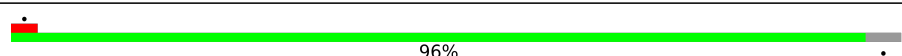
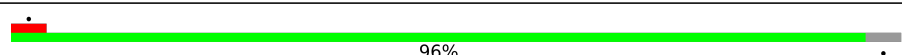
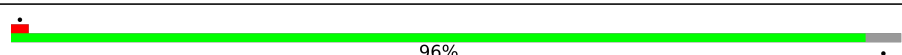
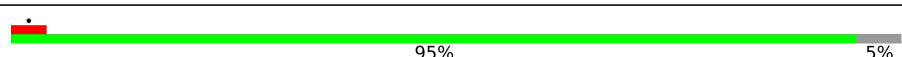
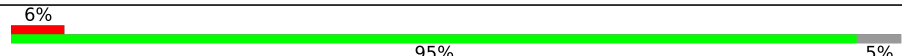
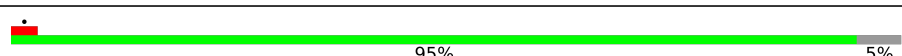
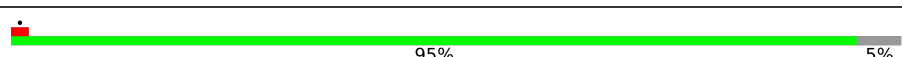
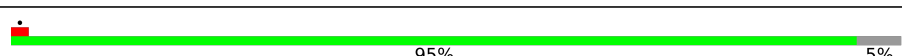
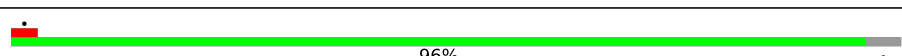
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Mol	Chain	Length	Quality of chain
42	NU	451	 96%
42	NW	451	 96%
42	OA	451	 96%
42	OC	451	 96%
42	OE	451	 96%
42	OG	451	 96%
42	OI	451	 96%
42	OK	451	 97%
42	OM	451	 97%
42	OO	451	 96%
42	OQ	451	 96%
42	OS	451	 96%
42	OU	451	 96%
42	OW	451	 96%
42	OY	451	 96%
42	PA	451	 95%
42	PC	451	 96%
42	PE	451	 96%
42	PG	451	 95% 5%
42	PI	451	 95% 5%
42	PK	451	 95% 5%
42	PM	451	 95% 5%
42	PO	451	 95% 5%
42	PQ	451	 96%
42	PS	451	 96%

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Mol	Chain	Length	Quality of chain
42	PU	451	 95% 5%
42	PW	451	 95% 5%
42	PY	451	 95% 5%
42	QA	451	 96% .
42	QC	451	 96% .
42	QE	451	 97% .
42	QG	451	 95% 5%
42	QI	451	 96% .
42	QK	451	 97% .
42	QM	451	 96% .
42	QO	451	 96% .
42	QQ	451	 96% .
42	QS	451	 96% .
42	QU	451	 95% 5%
42	QW	451	 96% .
42	QY	451	 96% .
42	RA	451	 96% .
42	RC	451	 96% .
42	RE	451	 96% .
42	RG	451	 95% 5%
42	RI	451	 6% 95% 5%
42	RK	451	 95% 5%
42	RM	451	 95% 5%
42	RO	451	 95% 5%
42	RQ	451	 96% .

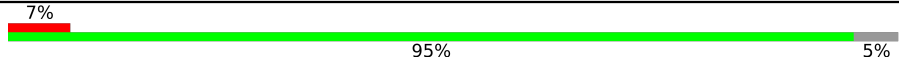
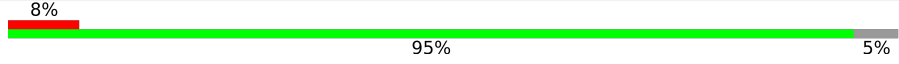
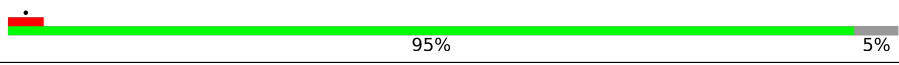
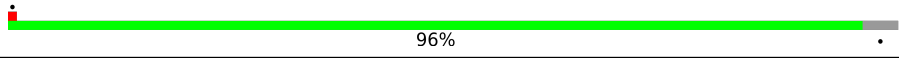
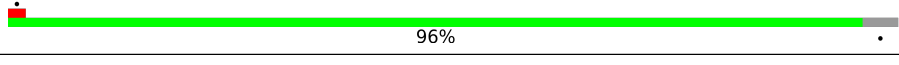
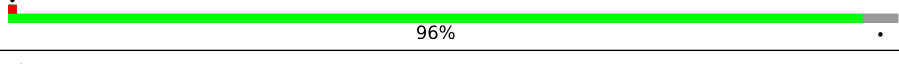
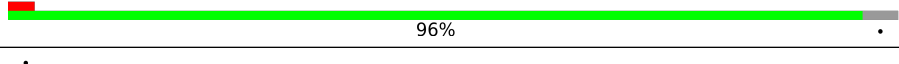
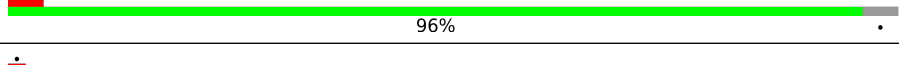
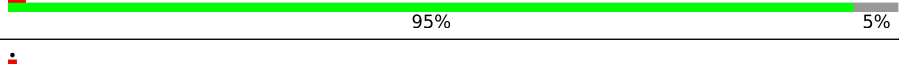
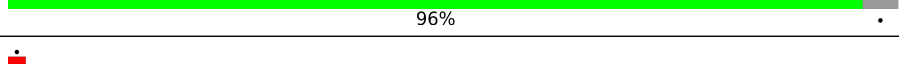
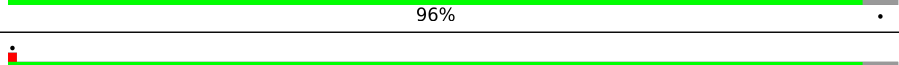
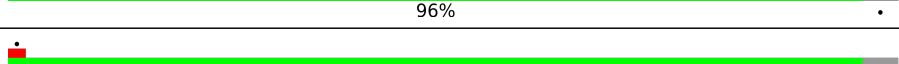
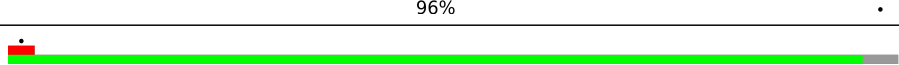
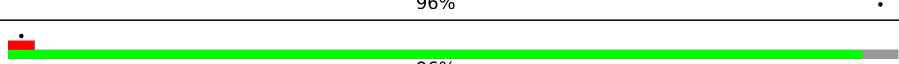
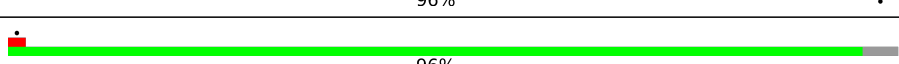
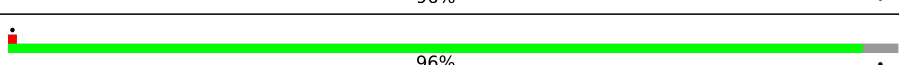
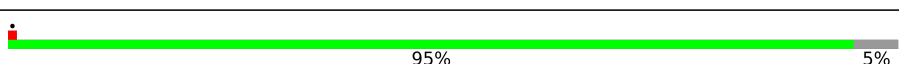
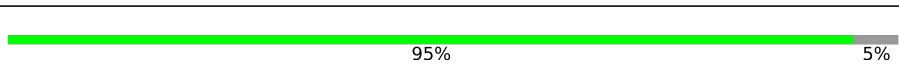
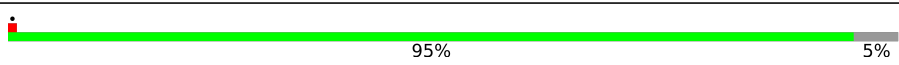
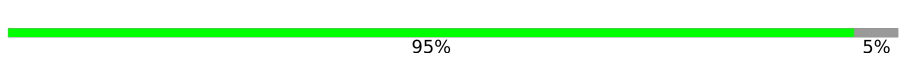
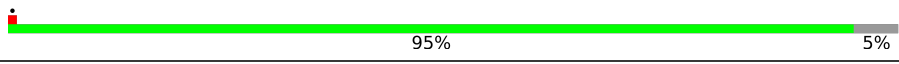
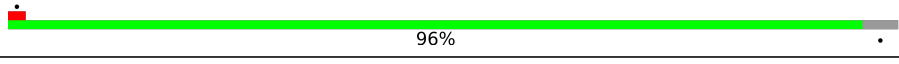
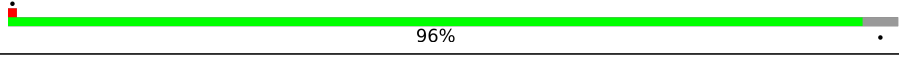
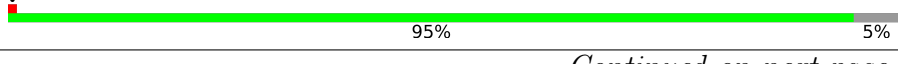

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Mol	Chain	Length	Quality of chain
42	RS	451	96%
42	RU	451	95%
42	RW	451	95%
42	RY	451	95%
42	SC	451	96%
42	SE	451	96%
42	SG	451	97%
42	SI	451	96%
42	SK	451	97%
42	SM	451	97%
42	SO	451	95%
42	SQ	451	96%
42	SS	451	97%
42	SU	451	96%
42	SW	451	97%
42	SY	451	96%
42	TC	451	96%
42	TE	451	96%
42	TG	451	95%
42	TI	451	95%
42	TK	451	95%
42	TM	451	95%
42	TO	451	95%
42	TQ	451	96%
42	TS	451	96%

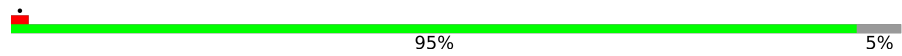
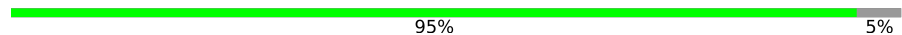
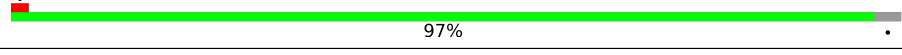
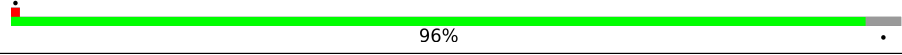
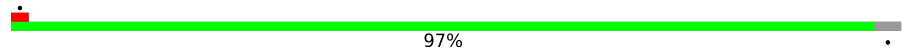
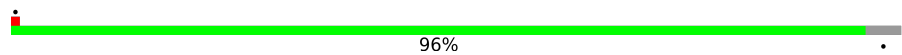
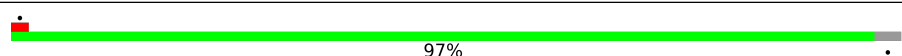
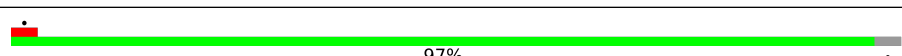
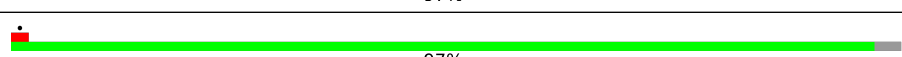
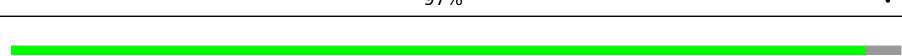
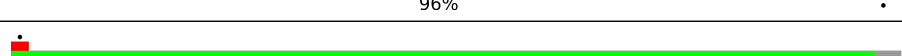
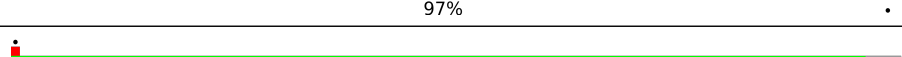
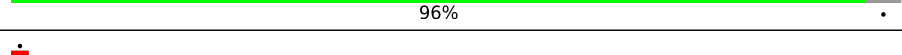
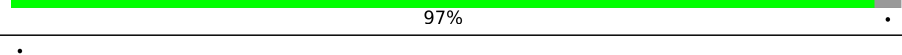
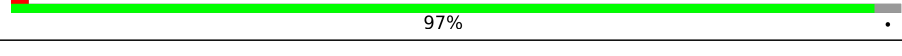
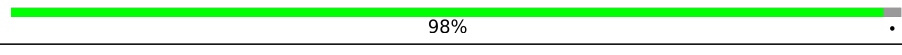
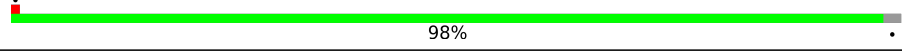
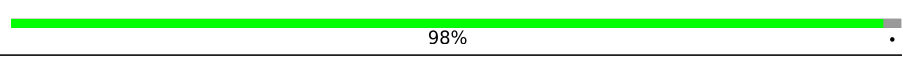
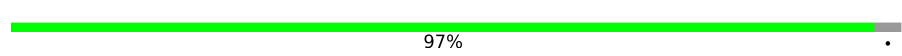
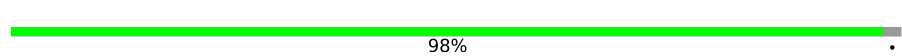
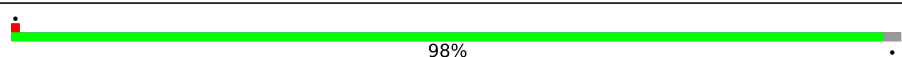
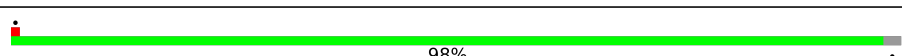
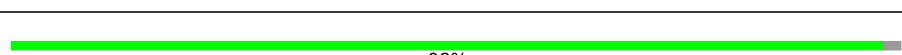
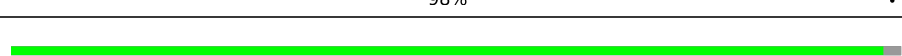
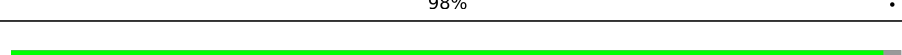
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Mol	Chain	Length	Quality of chain
42	TU	451	 7% 95% 5%
42	TW	451	 8% 95% 5%
42	TY	451	 95% 5%
42	UC	451	 96% .
42	UE	451	 96% .
42	UG	451	 96% .
42	UI	451	 96% .
42	UK	451	 96% .
42	UM	451	 95% 5%
42	UO	451	 96% .
42	UQ	451	 96% .
42	US	451	 96% .
42	UU	451	 96% .
42	UW	451	 96% .
42	UY	451	 96% .
42	VC	451	 96% .
42	VE	451	 96% .
42	VG	451	 95% 5%
42	VI	451	 95% 5%
42	VK	451	 95% 5%
42	VM	451	 95% 5%
42	VO	451	 95% 5%
42	VQ	451	 96% .
42	VS	451	 96% .
42	VU	451	 95% 5%

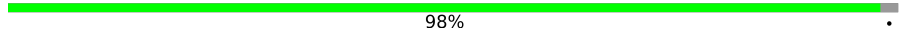
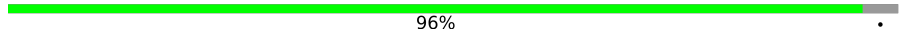
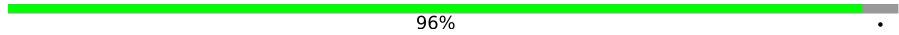
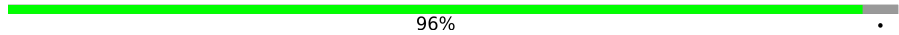
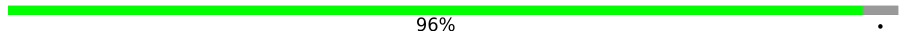
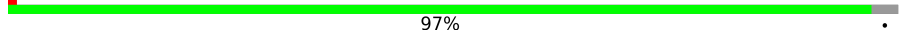
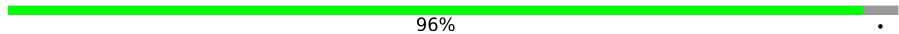
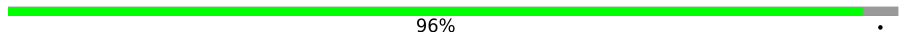
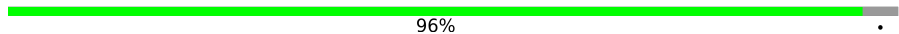
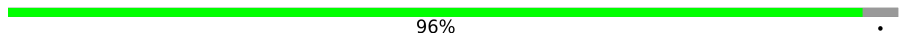
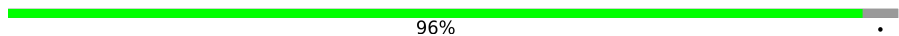
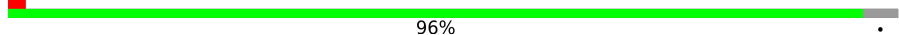
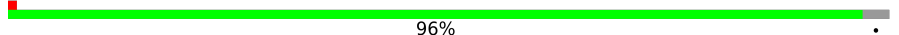
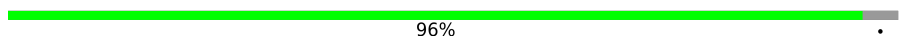
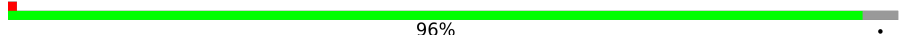
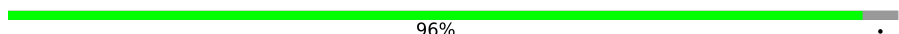
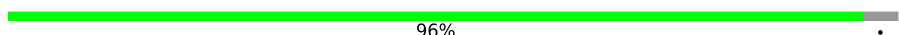
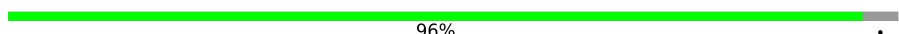
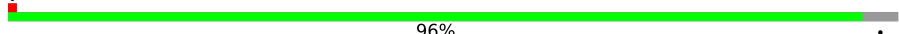
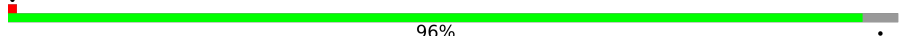
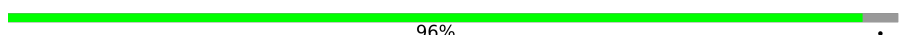
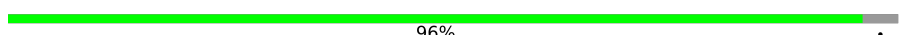
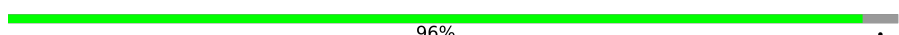
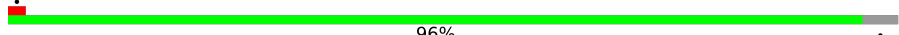
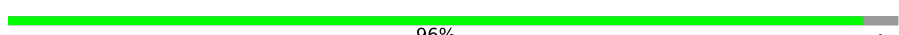
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Mol	Chain	Length	Quality of chain
42	VW	451	 95% 5%
42	VY	451	 95% 5%
42	WA	451	 97% .
42	WC	451	 96% .
42	WE	451	 97% .
42	WG	451	 96% .
42	WI	451	 97% .
42	WK	451	 97% .
42	WM	451	 97% .
42	WO	451	 96% .
42	WQ	451	 97% .
42	WS	451	 96% .
42	WU	451	 97% .
42	WW	451	 97% .
43	AB	445	 98% .
43	AD	445	 98% .
43	AF	445	 98% .
43	AH	445	 97% .
43	AJ	445	 98% .
43	AL	445	 98% .
43	AN	445	 98% .
43	AP	445	 98% .
43	AR	445	 98% .
43	AT	445	 98% .
43	AV	445	 98% .

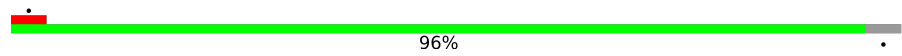
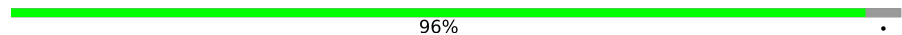
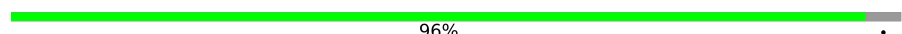
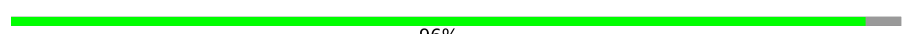


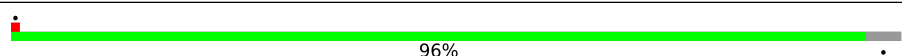
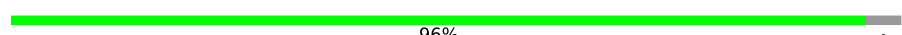



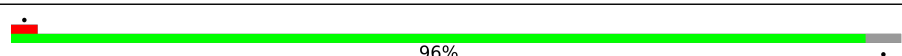
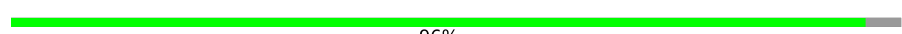

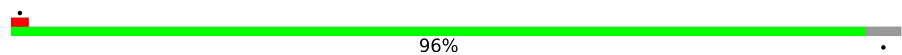
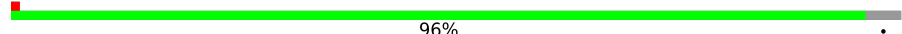
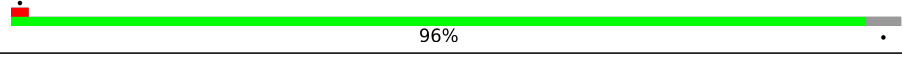
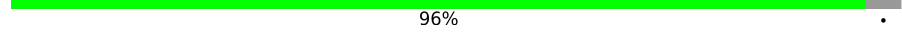
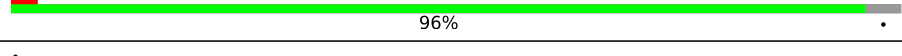
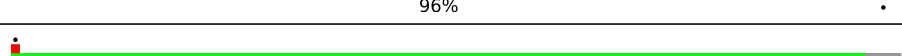
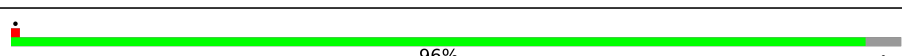
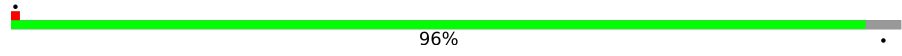
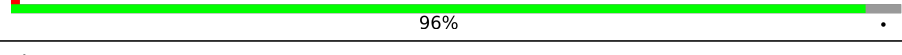
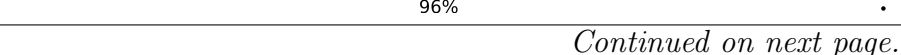

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Mol	Chain	Length	Quality of chain
43	AX	445	 98%
43	BB	445	 96%
43	BD	445	 96%
43	BF	445	 96%
43	BH	445	 96%
43	BJ	445	 97%
43	BL	445	 96%
43	BN	445	 96%
43	BP	445	 96%
43	BR	445	 96%
43	BT	445	 96%
43	BV	445	 96%
43	BX	445	 96%
43	CB	445	 96%
43	CD	445	 96%
43	CF	445	 96%
43	CH	445	 96%
43	CJ	445	 96%
43	CL	445	 96%
43	CN	445	 96%
43	CP	445	 96%
43	CR	445	 96%
43	CT	445	 96%
43	CV	445	 96%
43	CX	445	 96%

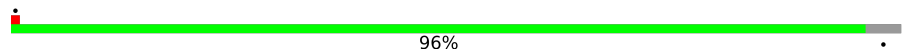
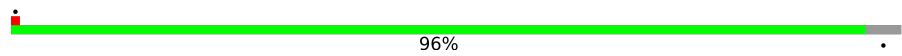
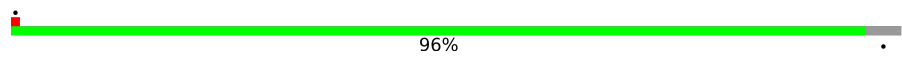
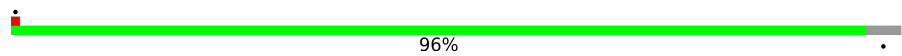
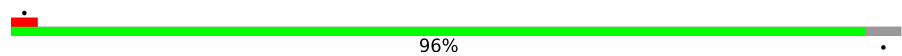
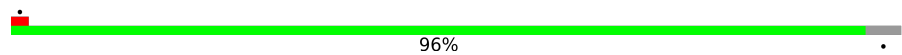
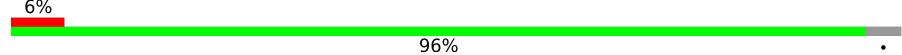
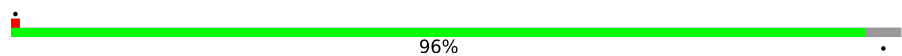
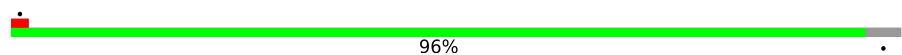
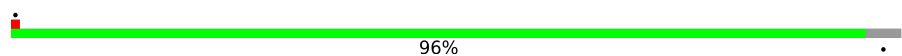
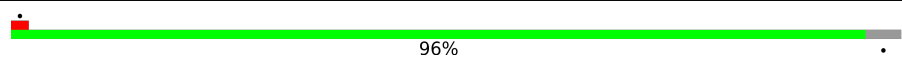
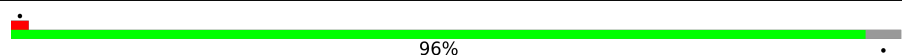
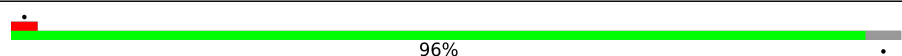
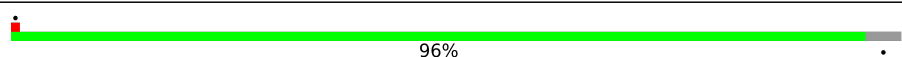
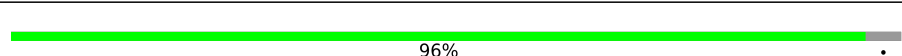
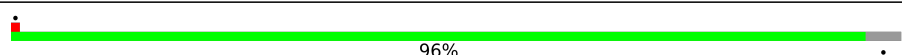
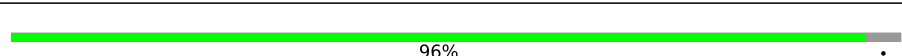
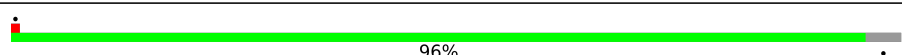
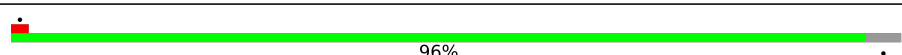
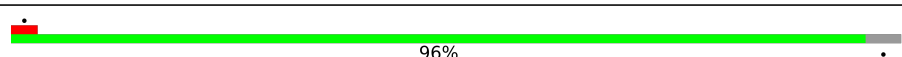
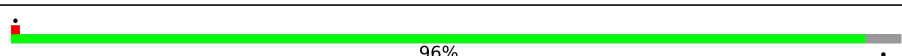
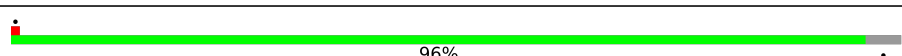
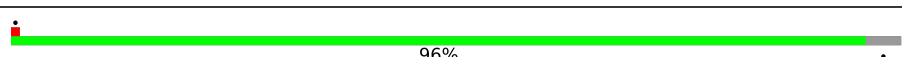
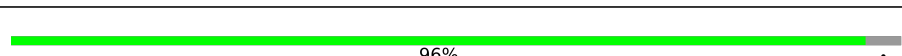
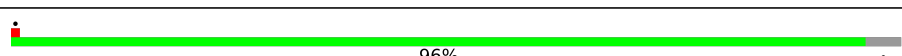
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Mol	Chain	Length	Quality of chain
43	CZ	445	 96%
43	DB	445	 96%
43	DD	445	 96%
43	DF	445	 96%
43	DH	445	 96%
43	DJ	445	 96%
43	DL	445	 96%
43	DN	445	 96%
43	DP	445	 96%
43	DR	445	 96%
43	DT	445	 96%
43	DV	445	 96%
43	DX	445	 96%
43	DZ	445	 96%
43	EB	445	 96%
43	ED	445	 96%
43	EF	445	 96%
43	EH	445	 96%
43	EJ	445	 96%
43	EL	445	 96%
43	EN	445	 96%
43	EP	445	 96%
43	ER	445	 96%
43	ET	445	 96%
43	EV	445	 96%

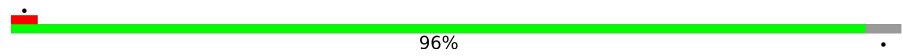
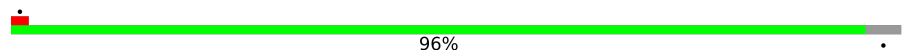
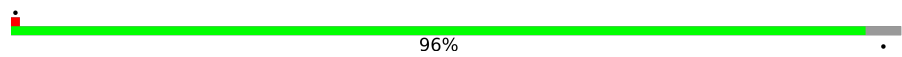
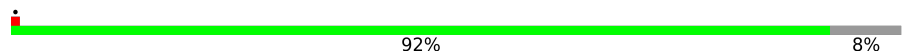
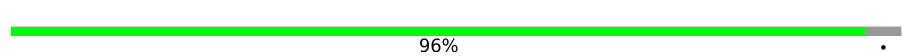
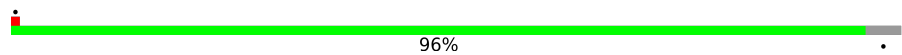
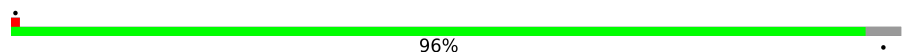
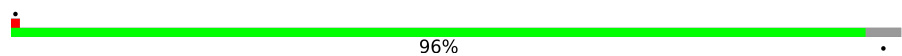
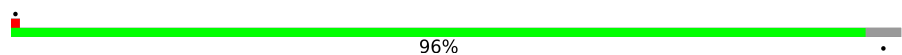
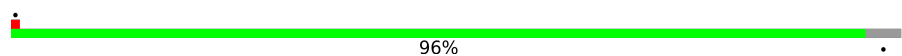
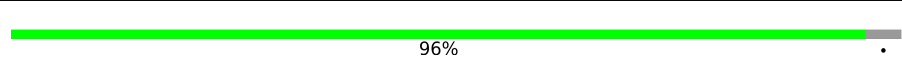
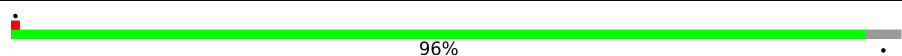
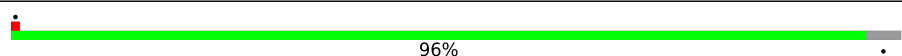
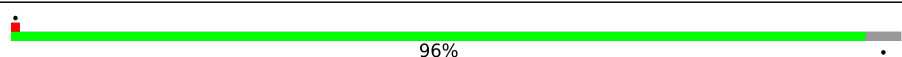
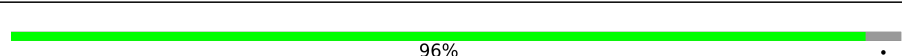
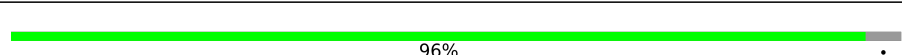
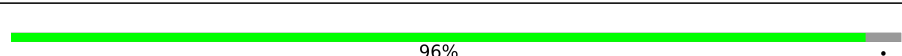
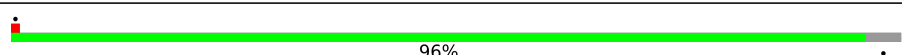
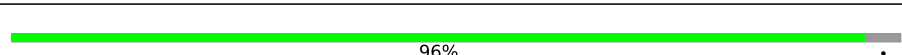
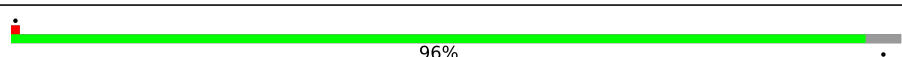
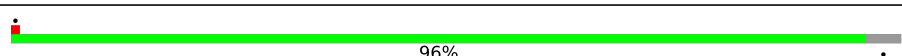
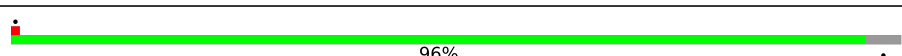
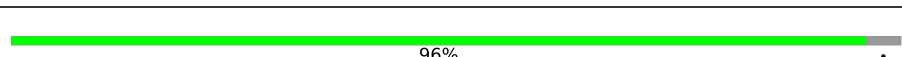
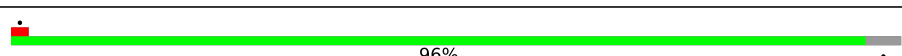
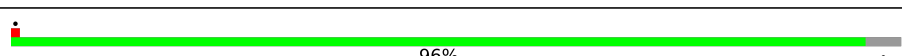
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Mol	Chain	Length	Quality of chain
43	EX	445	 96%
43	EZ	445	 96%
43	FB	445	 96%
43	FD	445	 96%
43	FF	445	 96%
43	FH	445	 96%
43	FJ	445	 96%
43	FL	445	 96%
43	FN	445	 96%
43	FP	445	 96%
43	FR	445	 96%
43	FT	445	 96%
43	FV	445	 96%
43	FX	445	 96%
43	FZ	445	 96%
43	GB	445	 96%
43	GD	445	 96%
43	GF	445	 96%
43	GH	445	 96%
43	GJ	445	 96%
43	GL	445	 96%
43	GN	445	 96%
43	GP	445	 96%
43	GR	445	 96%
43	GT	445	 96%

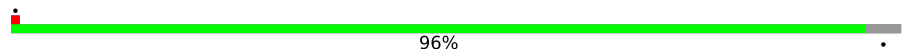
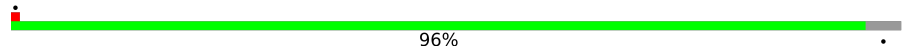
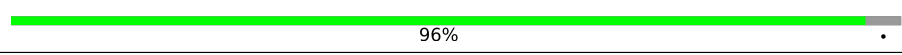
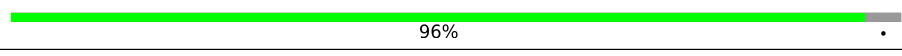
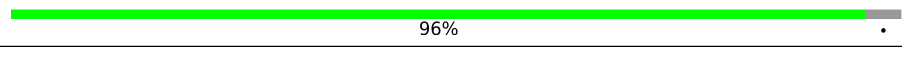
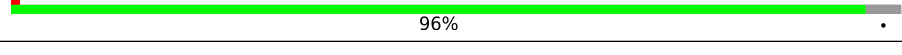
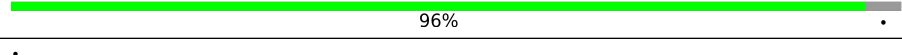
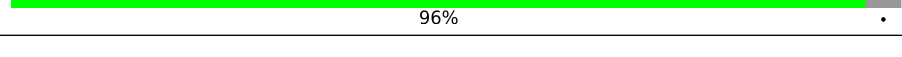
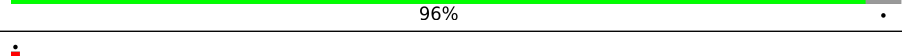
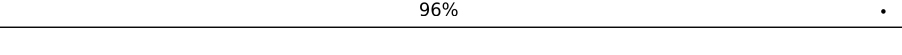
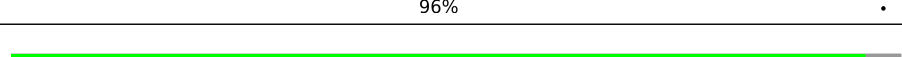
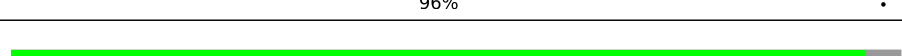
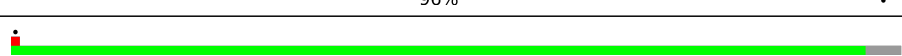
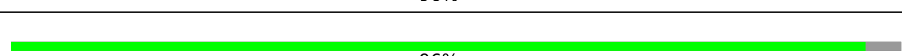
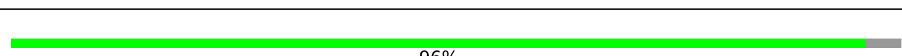
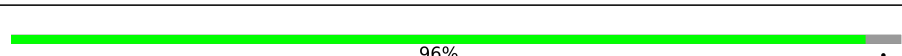
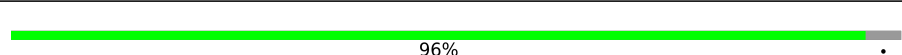
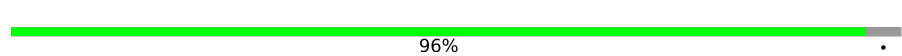
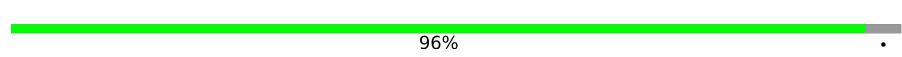
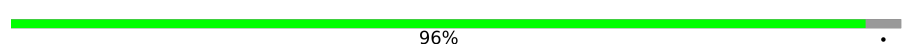
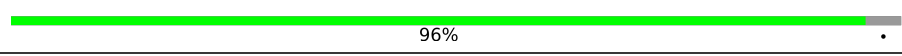
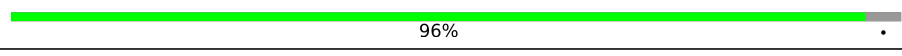
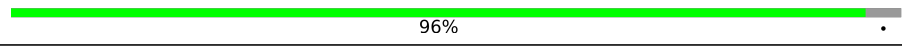
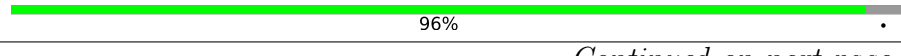

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Mol	Chain	Length	Quality of chain
43	GV	445	 96%
43	GX	445	 96%
43	GZ	445	 96%
43	HB	445	 92% 8%
43	HD	445	 96%
43	HF	445	 96%
43	HH	445	 96%
43	HJ	445	 96%
43	HL	445	 96%
43	HN	445	 96%
43	HP	445	 96%
43	HR	445	 96%
43	HT	445	 96%
43	HV	445	 96%
43	HX	445	 96%
43	HZ	445	 96%
43	IB	445	 96%
43	ID	445	 96%
43	IF	445	 96%
43	IH	445	 96%
43	IJ	445	 96%
43	IL	445	 96%
43	IN	445	 96%
43	IP	445	 96%
43	IR	445	 96%

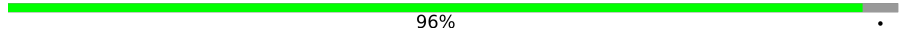
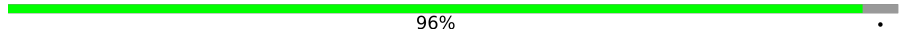
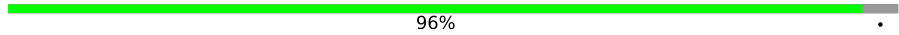
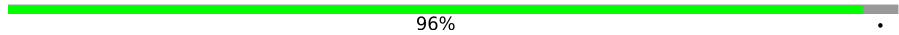
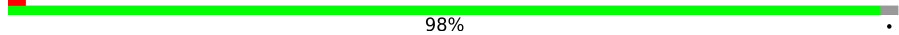
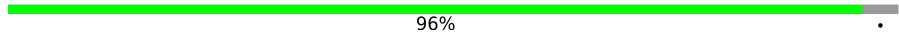
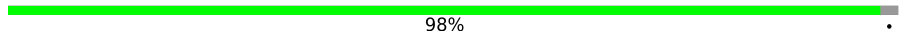
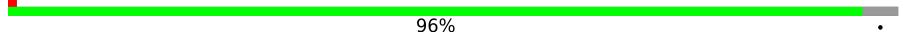
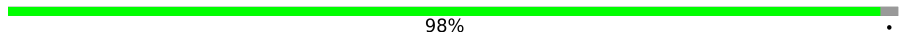
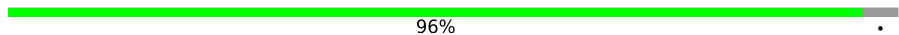
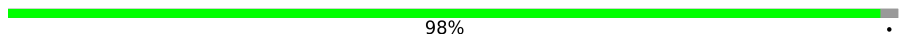
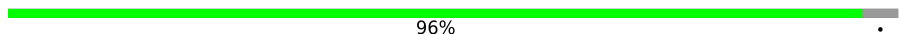
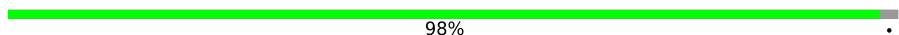
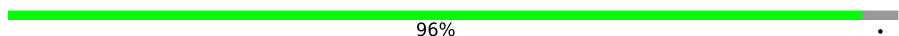
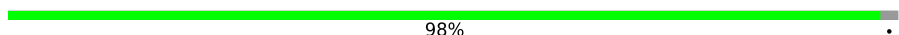
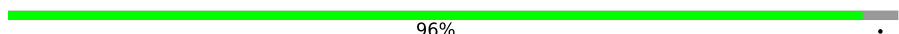
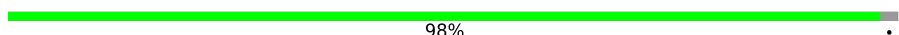
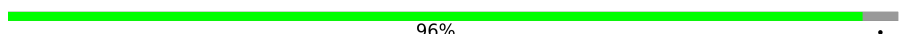
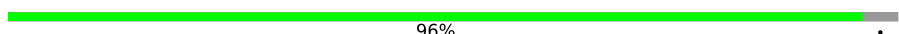
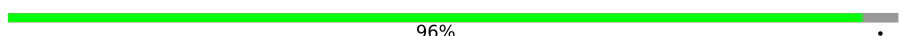
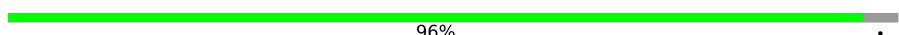
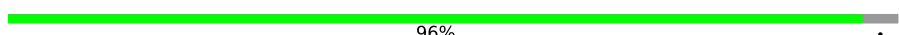
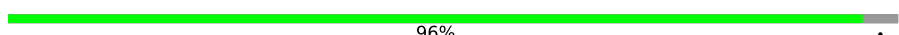
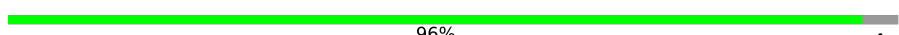
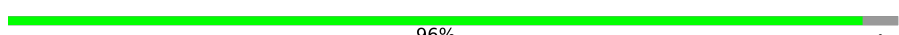
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Mol	Chain	Length	Quality of chain
43	IT	445	
43	IV	445	
43	IX	445	
43	JB	445	
43	JD	445	
43	JF	445	
43	JH	445	
43	JJ	445	
43	JL	445	
43	JN	445	
43	JP	445	
43	JR	445	
43	JT	445	
43	JV	445	
43	JX	445	
43	JZ	445	
43	KB	445	
43	KD	445	
43	KF	445	
43	KH	445	
43	KJ	445	
43	KL	445	
43	KN	445	
43	KP	445	
43	KR	445	

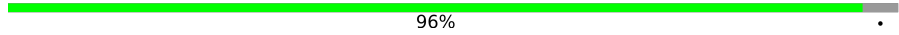
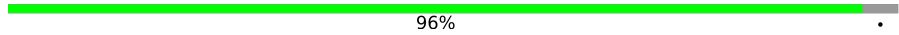
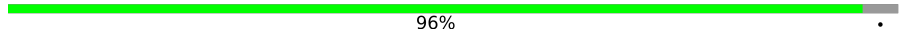
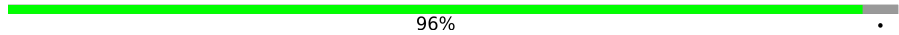
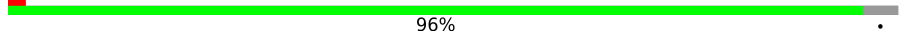
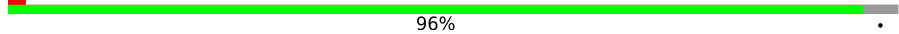
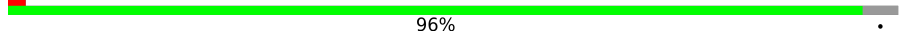
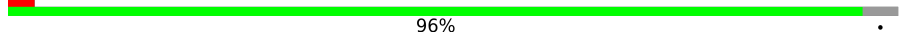
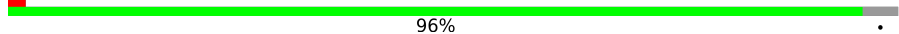
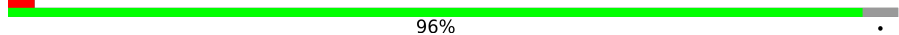
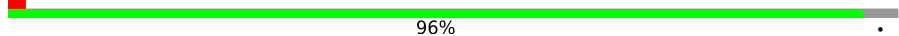
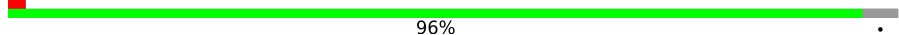
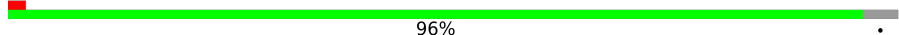
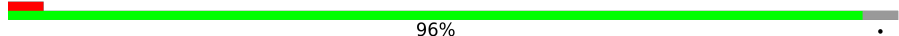
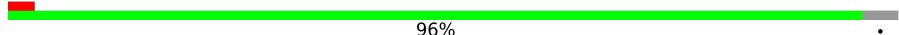
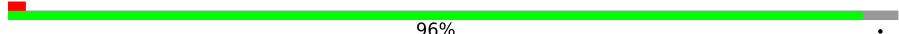
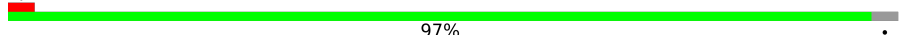
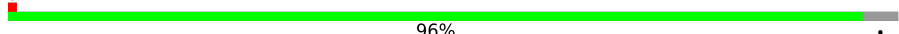
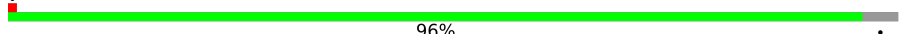
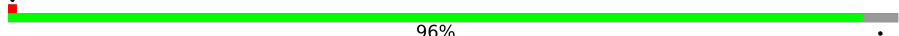
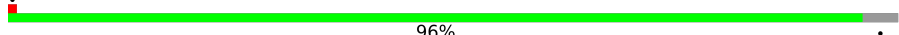
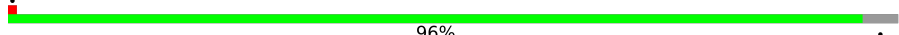
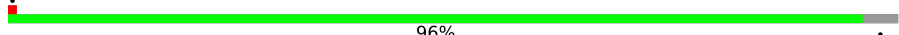
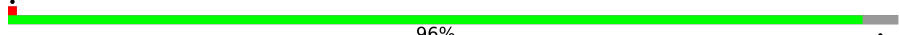
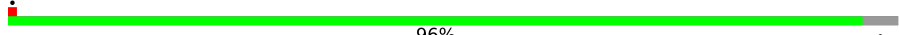
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Mol	Chain	Length	Quality of chain
43	KT	445	 96%
43	KV	445	 96%
43	KX	445	 96%
43	KZ	445	 96%
43	LB	445	 98%
43	LD	445	 96%
43	LF	445	 98%
43	LH	445	 96%
43	LJ	445	 98%
43	LL	445	 96%
43	LN	445	 98%
43	LP	445	 96%
43	LR	445	 98%
43	LT	445	 96%
43	LV	445	 98%
43	LX	445	 96%
43	LZ	445	 98%
43	MD	445	 96%
43	MF	445	 96%
43	MH	445	 96%
43	MJ	445	 96%
43	ML	445	 96%
43	MN	445	 96%
43	MP	445	 96%
43	MR	445	 96%

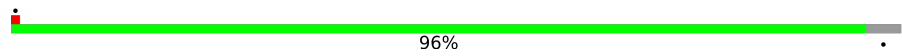
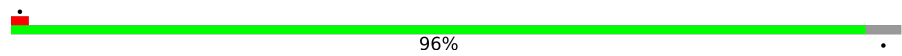
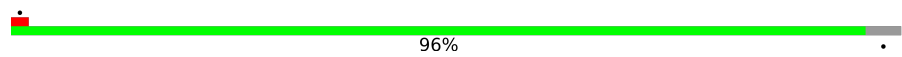
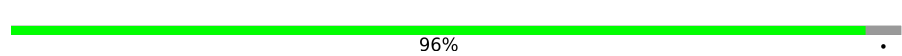
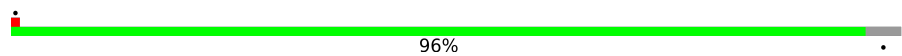
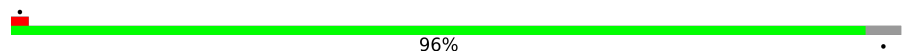
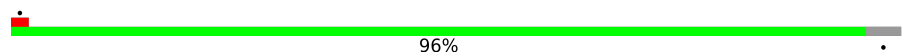
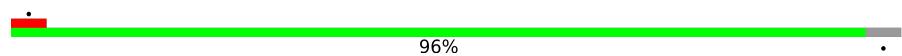
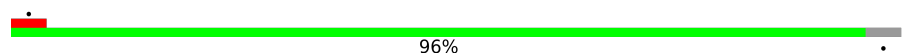
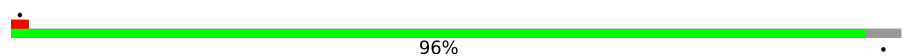
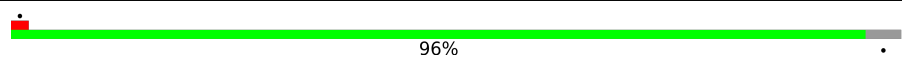
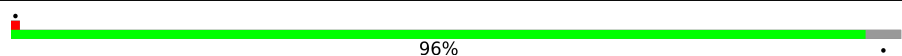
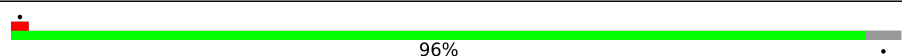
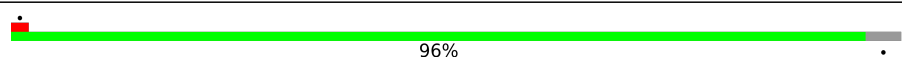
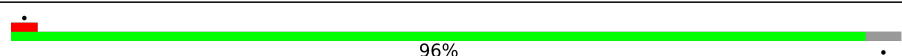
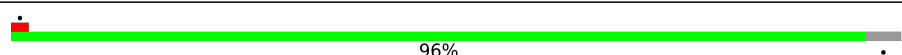
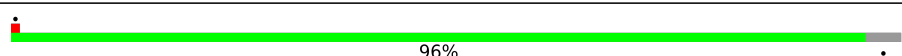
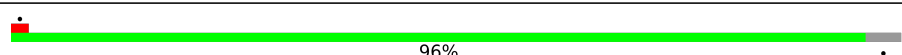
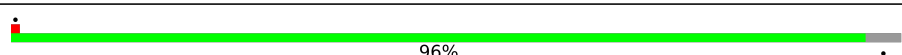
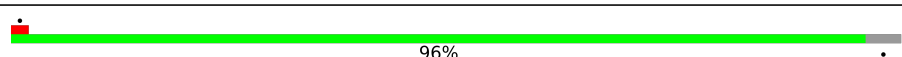
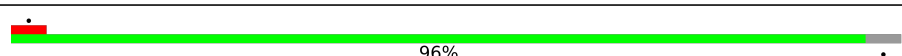
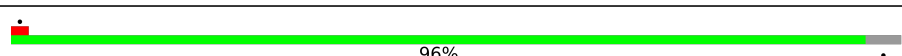
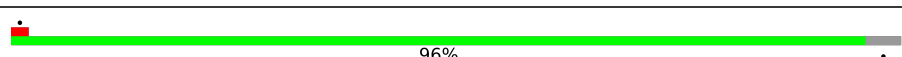
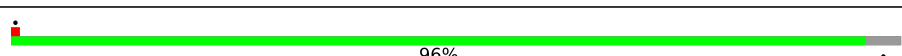
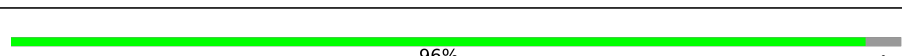
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Mol	Chain	Length	Quality of chain
43	MT	445	 96%
43	MV	445	 96%
43	MX	445	 96%
43	MZ	445	 96%
43	NB	445	 96%
43	ND	445	 96%
43	NF	445	 96%
43	NH	445	 96%
43	NJ	445	 96%
43	NL	445	 96%
43	NN	445	 96%
43	NP	445	 96%
43	NR	445	 96%
43	NT	445	 96%
43	NV	445	 96%
43	NX	445	 96%
43	NZ	445	 97%
43	OB	445	 96%
43	OD	445	 96%
43	OF	445	 96%
43	OH	445	 96%
43	OJ	445	 96%
43	OL	445	 96%
43	ON	445	 96%
43	OP	445	 96%

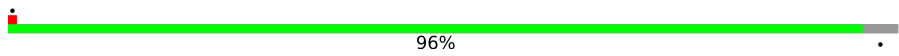
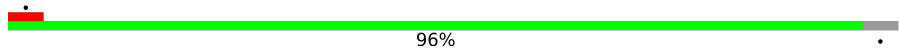
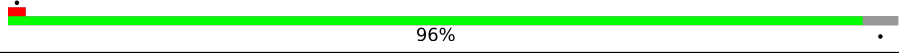
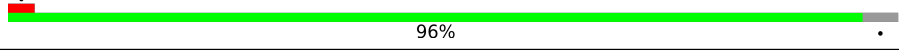
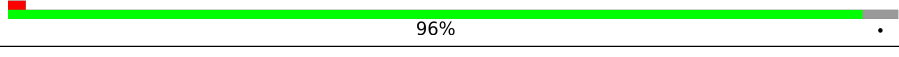
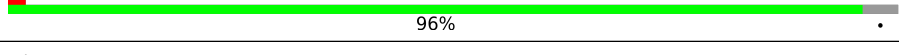
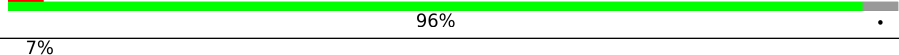
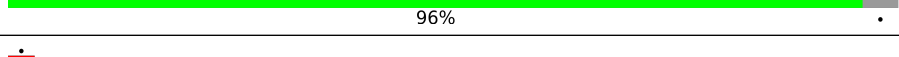
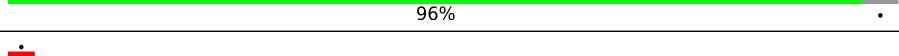
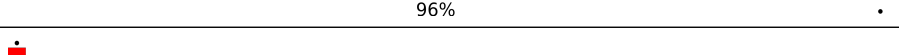
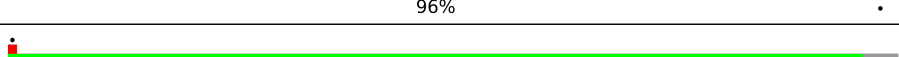
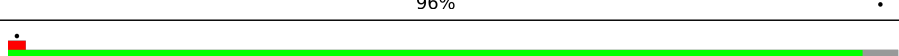
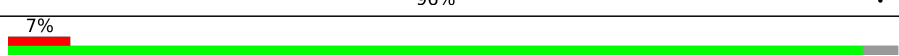
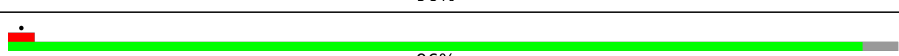
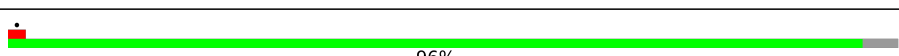
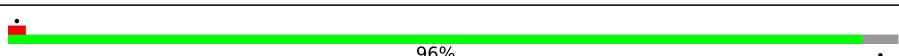
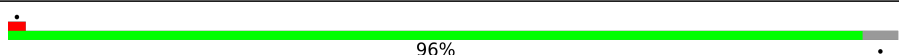
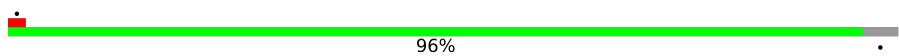
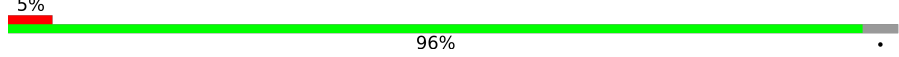
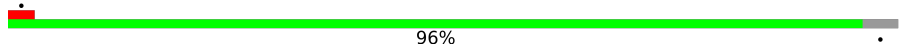
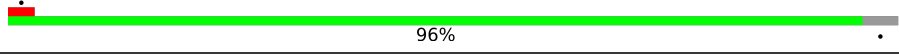
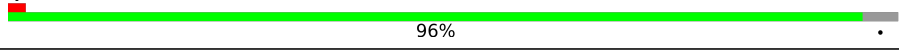
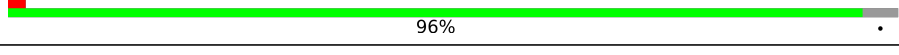
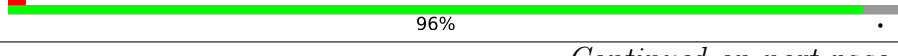

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Mol	Chain	Length	Quality of chain
43	OR	445	 96%
43	OT	445	 96%
43	OV	445	 96%
43	OX	445	 96%
43	PB	445	 96%
43	PD	445	 96%
43	PF	445	 96%
43	PH	445	 96%
43	PJ	445	 96%
43	PL	445	 96%
43	PN	445	 96%
43	PP	445	 96%
43	PR	445	 96%
43	PT	445	 96%
43	PV	445	 96%
43	PX	445	 96%
43	QB	445	 96%
43	QD	445	 96%
43	QF	445	 96%
43	QH	445	 96%
43	QJ	445	 96%
43	QL	445	 96%
43	QN	445	 96%
43	QP	445	 96%
43	QR	445	 96%

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Mol	Chain	Length	Quality of chain
43	QT	445	 96%
43	QV	445	 96%
43	QX	445	 96%
43	RB	445	 96%
43	RD	445	 96%
43	RF	445	 96%
43	RH	445	 96%
43	RJ	445	 96%
43	RL	445	 96%
43	RN	445	 96%
43	RP	445	 96%
43	RR	445	 96%
43	RT	445	 96%
43	RV	445	 96%
43	RX	445	 96%
43	SB	445	 96%
43	SD	445	 96%
43	SF	445	 96%
43	SH	445	 96%
43	SJ	445	 96%
43	SL	445	 96%
43	SN	445	 96%
43	SP	445	 96%
43	SR	445	 96%
43	ST	445	 96%

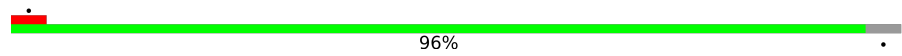
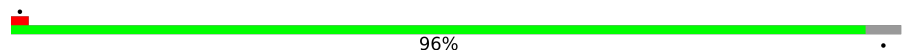
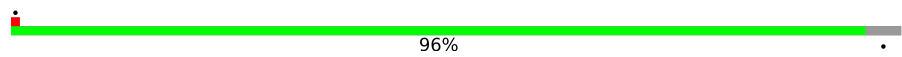
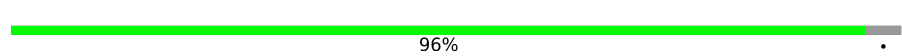
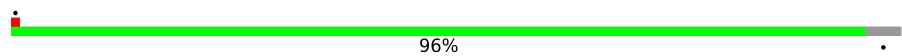
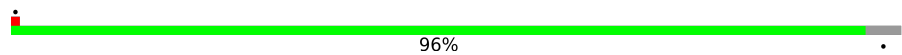
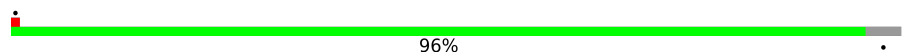
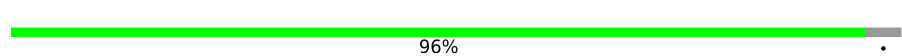
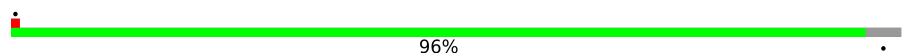
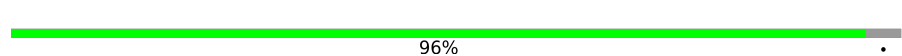
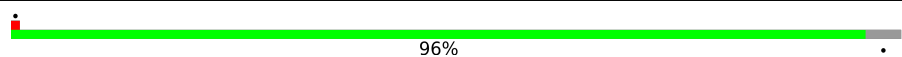
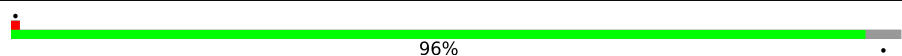
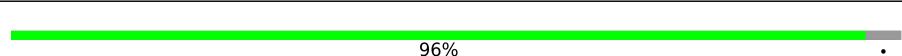
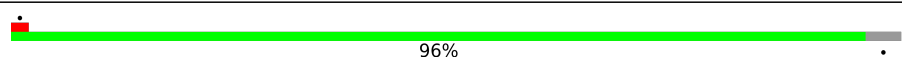
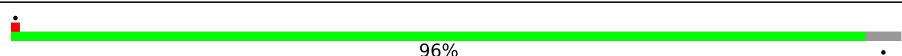
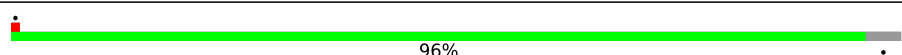
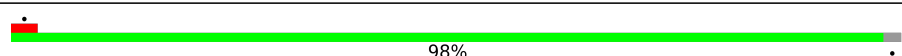
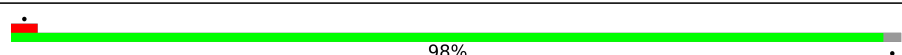
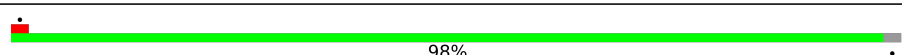
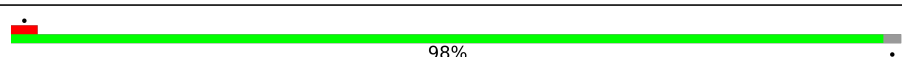
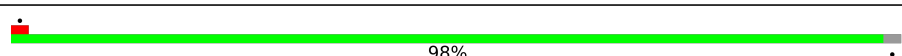
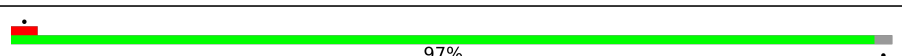
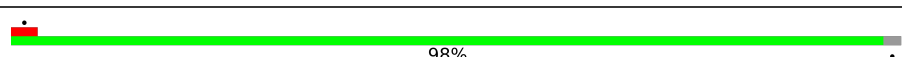
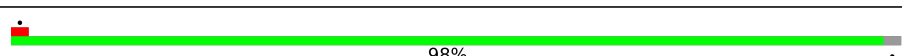
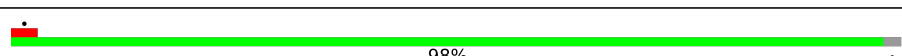
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Mol	Chain	Length	Quality of chain
43	SV	445	5% 96%
43	SX	445	96%
43	TB	445	96%
43	TD	445	96%
43	TF	445	96%
43	TH	445	96%
43	TJ	445	7% 96%
43	TL	445	7% 96%
43	TN	445	5% 96%
43	TP	445	96%
43	TR	445	96%
43	TT	445	96%
43	TV	445	7% 96%
43	TX	445	5% 96%
43	TZ	445	96%
43	UB	445	96%
43	UD	445	96%
43	UF	445	96%
43	UH	445	96%
43	UJ	445	96%
43	UL	445	96%
43	UN	445	96%
43	UP	445	96%
43	UR	445	96%
43	UT	445	96%

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Mol	Chain	Length	Quality of chain
43	UV	445	 96%
43	UX	445	 96%
43	UZ	445	 96%
43	VB	445	 96%
43	VD	445	 96%
43	VF	445	 96%
43	VH	445	 96%
43	VJ	445	 96%
43	VL	445	 96%
43	VN	445	 96%
43	VP	445	 96%
43	VR	445	 96%
43	VT	445	 96%
43	VV	445	 96%
43	VX	445	 96%
43	VZ	445	 96%
43	WB	445	 98%
43	WD	445	 98%
43	WF	445	 98%
43	WH	445	 98%
43	WJ	445	 98%
43	WL	445	 97%
43	WN	445	 98%
43	WP	445	 98%
43	WR	445	 98%

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Mol	Chain	Length	Quality of chain
43	WT	445	98%
43	WV	445	98%
43	WX	445	98%
44	E	560	13% 30% 70%
44	F	560	10% 39% 61%
44	e	560	13% 39% 61%
44	f	560	8% 38% 62%
45	G	716	9% 64% 36%
45	H	716	14% 65% 35%
45	I	716	9% 65% 35%
45	J	716	15% 66% 34%
45	g	716	32% 65% 35%
45	h	716	20% 66% 34%
45	i	716	17% 65% 35%
45	j	716	17% 66% 34%
46	K	151	13% 21% 79%
46	L	151	7% 23% 77%
46	k	151	21% 79%
46	l	151	9% 25% 75%
47	M	276	15% 100%
47	N	276	32% 93% 7%
47	O	276	44% 100%
47	P	276	26% 95% 5%
47	m	276	29% 100%
47	n	276	49% 95% 5%

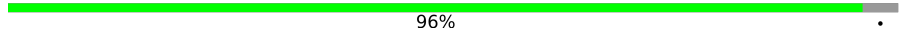
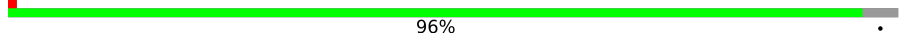
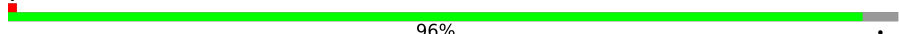
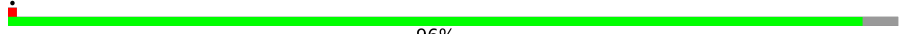


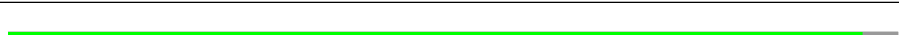
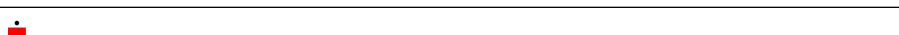
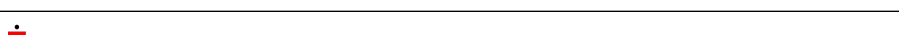
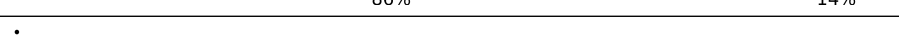
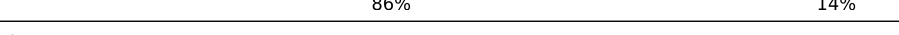
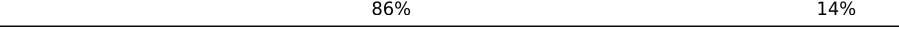











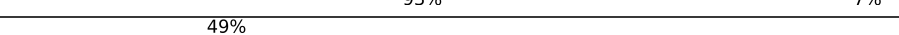
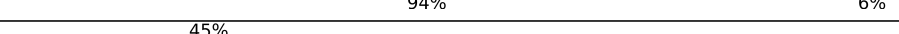
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Mol	Chain	Length	Quality of chain
47	o	276	28% 100%
47	p	276	21% 95% 5%
48	Q	230	25% 76% 24%
48	R	230	16% 84%
48	q	230	28% 90% 10%
48	r	230	18% 82%
49	S	311	31% 93% 7%
49	s	311	19% 93% 7%
50	T	348	15% 97% .
50	t	348	27% 93% 7%
51	U	316	27% 94% 6%
51	V	316	53% 94% 6%
51	u	316	37% 94% 6%
51	v	316	33% 94% 6%
52	W	149	51% 95% 5%
53	X	212	35% 91% 9%
53	Y	212	50% 91% 9%
53	x	212	18% 91% 9%
53	y	212	39% 91% 9%
54	XA	193	96% .
54	XB	193	96% .
54	XC	193	96% .
54	XD	193	96% .
54	XE	193	96% .
54	XF	193	96% .

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Mol	Chain	Length	Quality of chain
54	XG	193	 96%
54	XH	193	 96%
54	XI	193	 96%
54	XJ	193	 96%
54	XK	193	 96%
54	XL	193	 96%
54	XM	193	 96%
55	YB	257	 86% 14%
55	YC	257	 86% 14%
55	YD	257	 86% 14%
55	YF	257	 86% 14%
55	YG	257	 86% 14%
55	YH	257	 86% 14%
55	YI	257	 86% 14%
55	YJ	257	 86% 14%
55	YK	257	 86% 14%
55	YL	257	 86% 14%
55	YM	257	 86% 14%
56	Z	228	 26% 94% 6%
56	z	228	 10% 92% 8%
57	a0	72	 11% 100%
58	a1	89	 52% 93% 7%
58	a2	89	 49% 94% 6%
58	a3	89	 45% 93% 7%
58	a4	89	 40% 99%

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Mol	Chain	Length	Quality of chain
58	a5	89	8% 94% 6%
58	a6	89	6% 93% 7%
58	a7	89	24% 96% .
58	a8	89	19% 97% .
58	a9	89	47% 96% .
58	b0	89	35% 100%
58	b1	89	40% 94% ..
58	b2	89	85% 99% .
58	b3	89	52% 98% .
58	b4	89	40% 94% 6%
58	b5	89	47% 94% 6%
58	b6	89	40% 93% 7%
58	b7	89	31% 97% .
58	b8	89	42% 98% .
58	b9	89	37% 100%
58	c0	89	74% 96% .
58	l1	89	9% 100%
58	l2	89	. 100%
58	l3	89	. 100%
58	l4	89	. 100%
58	l5	89	100%
58	l6	89	. 100%
58	n1	89	31% 100%
58	n2	89	9% 100%
58	n3	89	17% 100%

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Mol	Chain	Length	Quality of chain
58	n4	89	8% 100%
58	n5	89	36% 100%
58	n6	89	9% 100%
58	p1	89	34% 100%
58	p2	89	12% 100%
58	p3	89	12% 100%
58	p4	89	9% 100%
58	p5	89	29% 100%
58	p6	89	11% 100%
58	r1	89	44% 100%
58	r2	89	17% 100%
58	r3	89	35% 100%
58	r4	89	9% 100%
58	r5	89	47% 100%
58	r6	89	19% 100%
59	c1	240	25% 95% 5%
60	c2	791	25% 80% 20%
61	c3	177	8% 25% 75%
61	c4	177	8% 31% 69%
61	c5	177	9% 34% 66%
61	c6	177	7% 34% 66%
62	d0	1237	45% 88% 12%
63	d1	767	20% 68% 32%
64	d2	1149	36% 79% 21%
65	d3	475	54% 88% 12%

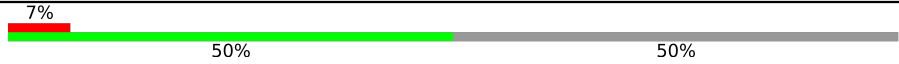
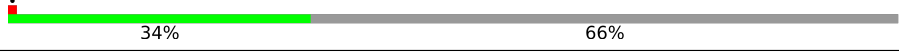


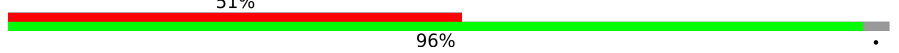



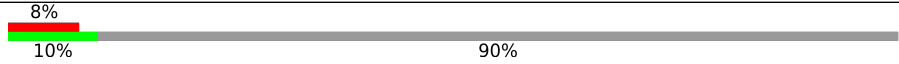










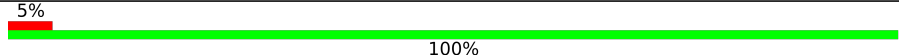
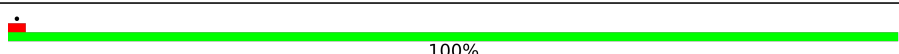
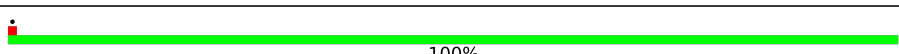
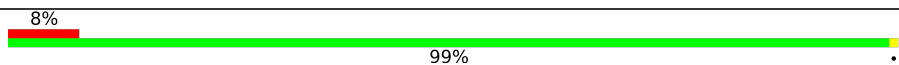

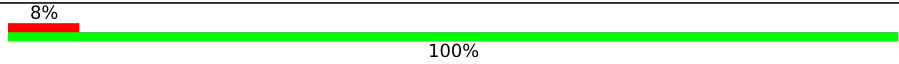
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Mol	Chain	Length	Quality of chain
66	d4	365	53% 98%
67	d5	377	24% 100%
67	d6	377	17% 100%
67	d7	377	23% 98%
67	d8	377	66% 100%
67	d9	377	46% 97%
67	f1	377	28% 98%
68	e0	258	52% 81% 19%
68	e1	258	28% 77% 23%
68	e2	258	23% 81% 19%
68	e3	258	52% 77% 23%
68	e4	258	62% 78% 22%
68	e5	258	17% 77% 23%
68	e6	258	19% 77% 23%
68	e7	258	39% 77% 23%
68	e8	258	34% 81% 19%
68	e9	258	47% 77% 23%
69	f2	172	22% 85% 15%
70	g1	3960	49% 99%
71	g2	4024	10% 13% 87%
71	g4	4024	8% 11% 89%
72	g3	4116	6% 14% 86%
73	g5	4158	60% 96%
74	g6	4265	40% 98%
75	h1	941	41% 59%

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Mol	Chain	Length	Quality of chain
75	h2	941	
76	h3	1142	
76	h4	1142	
77	i1	555	
78	i2	377	
79	i3	233	
80	i4	1250	
80	i5	1250	
81	i6	1665	
81	i8	1665	
82	i7	1854	
82	i9	1854	
83	j1	872	
83	j2	872	
84	j3	308	
85	j4	611	
86	k1	891	
87	k2	848	
88	k3	716	
89	k4	96	
89	m4	96	
89	o4	96	
89	q4	96	
90	k5	96	
90	m5	96	

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Mol	Chain	Length	Quality of chain
90	o5	96	9% 100%
90	q5	96	18% 100%
91	k8	4589	29% 97%
92	k9	4427	58% 98%
93	l7	142	74% 26%
93	n7	142	56% 80% 20%
93	p7	142	54% 80% 20%
93	r7	142	61% 80% 20%
94	l8	113	90% 10%
94	n8	113	67% 91% 9%
94	p8	113	65% 91% 9%
94	r8	113	70% 80% 20%
95	m0	211	41% 100%
95	q0	211	42% 100%
95	s0	211	37% 100%
95	u0	211	40% 100%
96	m1	699	8% 75% 25%
96	o1	699	8% 75% 25%
96	q1	699	12% 75% 25%
96	s1	699	8% 59% 41%
97	m2	605	15% 87% 13%
97	o2	605	14% 87% 13%
97	q2	605	20% 87% 13%
97	s2	605	6% 66% 34%
98	m3	190	100% 100%

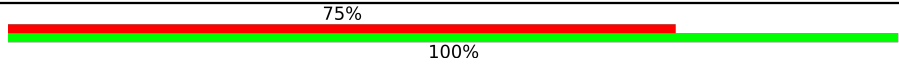
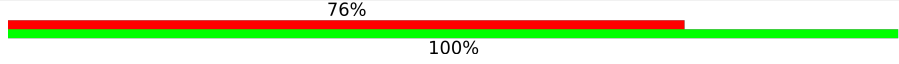



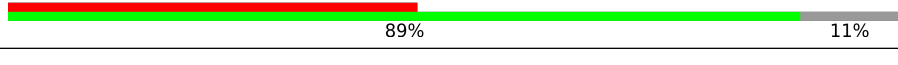
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Mol	Chain	Length	Quality of chain
98	o3	190	100% 100%
98	q3	190	100% 100%
99	m6	670	25% 52% 48%
99	o6	670	16% 28% 72%
99	q6	670	27% 52% 48%
99	s6	670	24% 52% 48%
99	u6	670	13% 32% 68%
100	m7	1044	21% 57% 43%
100	q7	1044	21% 57% 43%
100	s7	1044	19% 57% 43%
100	u7	1044	21% 57% 43%
101	m8	595	34% 70% 30%
101	o8	595	24% 40% 60%
101	q8	595	38% 70% 30%
101	s8	595	33% 70% 30%
101	u8	595	13% 39% 61%
102	m9	672	5% 30% 70%
102	q9	672	5% 30% 70%
102	s9	672	5% 30% 70%
102	u9	672	5% 30% 70%
103	n0	4624	51% 99%
103	p0	4624	51% 99%
103	r0	4624	55% 99%
103	t0	4624	18% 82%
104	n9	4486	75% 100%

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Mol	Chain	Length	Quality of chain
104	p9	4486	 <p>75% 100%</p>
104	r9	4486	 <p>76% 100%</p>
104	t9	4486	 <p>16% 84%</p>
105	v1	330	 <p>40% 60%</p>
105	v2	330	 <p>40% 60%</p>
105	v3	330	 <p>40% 60%</p>
106	w	464	 <p>46% 89% 11%</p>

2 Entry composition [i](#)

There are 109 unique types of molecules in this entry. The entry contains 3163608 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 Dynein regulatory complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	0	478	Total	C	N	O	S	0	0
			3952	2457	723	755	17		
1	4	459	Total	C	N	O	S	0	0
			3831	2381	702	731	17		

- Molecule 2 is a protein called Dynein regulatory complex protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	1	540	Total	C	N	O	S	0	0
			4537	2883	782	856	16		

- Molecule 3 is a protein called Dynein regulatory complex protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	10	346	Total	C	N	O	S	0	0
			2851	1772	519	546	14		

- Molecule 4 is a protein called Dynein regulatory complex protein 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	11	616	Total	C	N	O	S	0	0
			4998	3226	858	890	24		

- Molecule 5 is a protein called Dynein regulatory complex protein 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	12	118	Total	C	N	O	S	0	0
			961	610	161	186	4		
5	13	138	Total	C	N	O	S	0	0
			1128	717	190	216	5		
5	14	140	Total	C	N	O	S	0	0
			1143	725	195	218	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	8	124	1009	644	167	194	4	0	0

- Molecule 6 is a protein called EF-hand domain-containing family member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	1A	523	4234	2686	744	789	15	0	0
6	1B	554	4483	2850	787	830	16	0	0
6	1C	90	729	477	129	121	2	0	0

- Molecule 7 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	1D	46	385	243	67	74	1	0	0
7	1E	382	3250	1975	624	632	19	0	0
7	1F	452	3849	2336	749	744	20	0	0
7	1G	121	1034	626	212	195	1	0	0
7	1H	176	1491	914	283	284	10	0	0
7	1I	456	3890	2362	756	751	21	0	0
7	1J	332	2861	1723	568	557	13	0	0

- Molecule 8 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	1L	610	4717	2978	827	882	30	0	0
8	1M	610	4717	2978	827	882	30	0	0
8	1N	610	4717	2978	827	882	30	0	0
8	1O	610	4717	2978	827	882	30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	1P	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		
8	1Q	610	Total	C	N	O	S	0	0
			4717	2978	827	882	30		

- Molecule 9 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	1R	186	Total	C	N	O	S	0	0
			1587	979	297	304	7		
9	1S	463	Total	C	N	O	S	0	0
			3926	2403	744	761	18		
9	1T	330	Total	C	N	O	S	0	0
			2794	1703	531	546	14		

- Molecule 10 is a protein called Cilia- and flagella-associated protein 95.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	1V	146	Total	C	N	O	S	0	0
			1197	757	206	230	4		
10	1W	146	Total	C	N	O	S	0	0
			1197	757	206	230	4		

- Molecule 11 is a protein called Cilia- and flagella-associated protein 107.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	1Y	174	Total	C	N	O	S	0	0
			1470	945	263	259	3		
11	1Z	173	Total	C	N	O	S	0	0
			1463	940	262	258	3		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1Y	191	PHE	LEU	conflict	UNP Q8N1D5
1Z	191	PHE	LEU	conflict	UNP Q8N1D5

- Molecule 12 is a protein called Dynein regulatory complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	2	464	Total	C	N	O	S	0	0
			3869	2435	679	740	15		

- Molecule 13 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	2A	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2B	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2C	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2D	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2E	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2F	116	Total	C	N	O	S	0	0
			900	572	158	167	3		
13	2G	79	Total	C	N	O	S	0	0
			600	383	109	105	3		

- Molecule 14 is a protein called Cilia- and flagella-associated protein 141.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	2I	50	Total	C	N	O	S	0	0
			423	269	75	76	3		
14	2J	50	Total	C	N	O	S	0	0
			423	269	75	76	3		

- Molecule 15 is a protein called Cilia- and flagella-associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	2L	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2M	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2N	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		
15	2O	277	Total	C	N	O	S	0	0
			2227	1403	397	415	12		

- Molecule 16 is a protein called Cilia- and flagella- associated protein 210.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	2Q	289	Total	C	N	O	S	0	0
			2505	1552	480	463	10		
16	2R	506	Total	C	N	O	S	0	0
			4289	2667	796	810	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	2S	265	2205	1373	400	423	9	0	0

- Molecule 17 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	2U	112	906	568	166	171	1	0	0
17	2V	112	906	568	166	171	1	0	0
17	2W	112	906	568	166	171	1	0	0
17	2X	112	906	568	166	171	1	0	0
17	2Y	112	906	568	166	171	1	0	0
17	2Z	112	906	568	166	171	1	0	0

- Molecule 18 is a protein called Dynein regulatory complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
18	3	516	4225	2648	719	833	25	0	0

- Molecule 19 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	3A	485	3992	2576	667	735	14	0	0
19	3B	485	3992	2576	667	735	14	0	0
19	3C	484	3984	2570	666	734	14	0	0
19	3D	485	3992	2576	667	735	14	0	0
19	3E	485	3992	2576	667	735	14	0	0
19	3F	484	3984	2570	666	734	14	0	0

- Molecule 20 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	3G	613	Total 5053	C 3263	N 841	O 925	S 24	0	0
20	3H	701	Total 5797	C 3742	N 964	O 1063	S 28	0	0
20	3I	702	Total 5808	C 3748	N 968	O 1064	S 28	0	0
20	3J	701	Total 5797	C 3742	N 964	O 1063	S 28	0	0
20	3K	701	Total 5797	C 3742	N 964	O 1063	S 28	0	0
20	3L	702	Total 5808	C 3748	N 968	O 1064	S 28	0	0
20	3M	687	Total 5692	C 3675	N 944	O 1045	S 28	0	0

- Molecule 21 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	3O	159	Total 1304	C 829	N 227	O 243	S 5	0	0
21	3P	248	Total 2010	C 1283	N 348	O 370	S 9	0	0
21	3Q	250	Total 2023	C 1290	N 350	O 373	S 10	0	0
21	3R	250	Total 2023	C 1290	N 350	O 373	S 10	0	0
21	3S	248	Total 2010	C 1283	N 348	O 370	S 9	0	0
21	3T	250	Total 2023	C 1290	N 350	O 373	S 10	0	0
21	3U	250	Total 2023	C 1290	N 350	O 373	S 10	0	0

- Molecule 22 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	3W	392	Total 3353	C 2065	N 611	O 656	S 21	0	0
22	3X	480	Total 4115	C 2547	N 753	O 793	S 22	0	0
22	3Y	143	Total 1225	C 770	N 223	O 227	S 5	0	0

- Molecule 23 is a protein called Protein FAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	4A	80	Total	C	N	O	S	0	0
			619	405	108	103	3		
23	4B	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4C	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4D	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4E	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4F	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4G	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4H	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4I	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4J	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4K	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		
23	4L	145	Total	C	N	O	S	0	0
			1080	698	187	189	6		
23	4M	146	Total	C	N	O	S	0	0
			1085	701	188	190	6		

- Molecule 24 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	4O	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4P	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4Q	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		
24	4R	371	Total	C	N	O	S	0	0
			2943	1873	506	543	21		

- Molecule 25 is a protein called Piercer of microtubule wall 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	4S	113	Total	C	N	O	S	0	0
			905	566	165	169	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	4T	113	Total	C	N	O	S	0	0
			905	566	165	169	5		

- Molecule 26 is a protein called Piercer of microtubule wall 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	4U	94	Total	C	N	O	S	0	0
			750	478	127	139	6		
26	4V	94	Total	C	N	O	S	0	0
			750	478	127	139	6		
26	4W	53	Total	C	N	O	S	0	0
			411	267	64	74	6		

- Molecule 27 is a protein called Dynein regulatory complex subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	5	303	Total	C	N	O	S	0	0
			2377	1498	427	442	10		

- Molecule 28 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	5A	268	Total	C	N	O	S	0	0
			2218	1353	432	423	10		
28	5B	368	Total	C	N	O	S	0	0
			3089	1886	608	584	11		
28	5C	170	Total	C	N	O	S	0	0
			1423	871	278	271	3		

- Molecule 29 is a protein called RIB43A-like with coiled-coils protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	5D	89	Total	C	N	O	S	0	0
			744	447	154	141	2		
29	5E	335	Total	C	N	O	S	0	0
			2728	1650	530	533	15		
29	5F	266	Total	C	N	O	S	0	0
			2158	1308	413	424	13		

- Molecule 30 is a protein called Sperm-associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	5H	179	Total	C	N	O	S	0	0
			1459	919	260	271	9		
30	5I	179	Total	C	N	O	S	0	0
			1459	919	260	271	9		
30	5J	63	Total	C	N	O	S	0	0
			511	317	92	98	4		

- Molecule 31 is a protein called Uncharacterized protein CFAP68.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	5L	89	Total	C	N	O	S	0	0
			763	481	135	143	4		
31	5M	89	Total	C	N	O	S	0	0
			763	481	135	143	4		

- Molecule 32 is a protein called Cilia- and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	5O	80	Total	C	N	O	S	0	0
			693	442	131	118	2		
32	5P	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5Q	224	Total	C	N	O	S	0	0
			1831	1158	345	320	8		
32	5R	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5S	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5T	224	Total	C	N	O	S	0	0
			1831	1158	345	320	8		
32	5U	226	Total	C	N	O	S	0	0
			1849	1169	349	323	8		
32	5V	66	Total	C	N	O	S	0	0
			522	330	95	94	3		

- Molecule 33 is a protein called Uncharacterized protein CFAP90.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	5X	127	Total	C	N	O	S	0	0
			1045	659	195	190	1		
33	5Y	127	Total	C	N	O	S	0	0
			1045	659	195	190	1		

- Molecule 34 is a protein called Sperm acrosome-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	6A	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6C	159	Total	C	N	O	S	0	0
			1278	799	227	242	10		
34	6E	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6G	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6I	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6K	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6L	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6N	159	Total	C	N	O	S	0	0
			1278	799	227	242	10		
34	6O	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6Q	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6R	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6T	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		
34	6V	157	Total	C	N	O	S	0	0
			1263	788	225	240	10		

- Molecule 35 is a protein called Dynein regulatory complex subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
35	7	601	Total	C	N	O	S	0	0
			4993	3174	854	931	34		

- Molecule 36 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	7A	60	Total	C	N	O	S	0	0
			462	295	81	84	2		
36	7B	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7C	102	Total	C	N	O	S	0	0
			825	526	147	148	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
36	7D	101	Total	C	N	O	S	0	0
			818	521	146	147	4		
36	7E	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7F	102	Total	C	N	O	S	0	0
			825	526	147	148	4		
36	7G	101	Total	C	N	O	S	0	0
			818	521	146	147	4		

- Molecule 37 is a protein called Cilia- and flagella-associated protein 144.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	7I	111	Total	C	N	O	S	0	0
			945	594	179	170	2		
37	7J	111	Total	C	N	O	S	0	0
			945	594	179	170	2		

- Molecule 38 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	8A	202	Total	C	N	O	S	0	0
			1615	1002	293	311	9		
38	8B	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8C	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8D	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8E	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8F	391	Total	C	N	O	S	0	0
			3185	1978	576	619	12		
38	8G	340	Total	C	N	O	S	0	0
			2770	1723	493	544	10		
38	8H	36	Total	C	N	O		0	0
			305	188	63	54			

- Molecule 39 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	8J	58	Total	C	N	O	S	0	0
			498	300	100	97	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
39	8K	381	Total	C	N	O	S	0	0
			3088	1891	567	615	15		
39	8L	378	Total	C	N	O	S	0	0
			3063	1877	561	610	15		
39	8M	383	Total	C	N	O	S	0	0
			3109	1907	570	617	15		
39	8N	384	Total	C	N	O	S	0	0
			3117	1911	571	620	15		
39	8O	384	Total	C	N	O	S	0	0
			3117	1911	571	620	15		
39	8P	360	Total	C	N	O	S	0	0
			2916	1789	531	581	15		
39	8Q	23	Total	C	N	O	S	0	0
			192	117	38	36	1		

- Molecule 40 is a protein called Dynein regulatory complex protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	9	278	Total	C	N	O	S	0	0
			2336	1466	407	451	12		

- Molecule 41 is a protein called Radial spoke head 1 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	A	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	B	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	C	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	D	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	a	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	b	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	c	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		
41	d	210	Total	C	N	O	S	0	0
			1710	1066	308	334	2		

- Molecule 42 is a protein called Tubulin alpha-1A chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	AZ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AG	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AI	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AK	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AM	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AO	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AS	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AU	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	AY	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BA	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BE	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	BG	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BI	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	BK	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BM	433	Total 3387	C 2145	N 576	O 644	S 22	0	0
42	BO	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	BS	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BU	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	BY	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	CC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CE	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	CG	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CI	431	Total 3377	C 2140	N 574	O 641	S 22	0	0
42	CK	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CM	431	Total 3377	C 2140	N 574	O 641	S 22	0	0
42	CO	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CS	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CU	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	CW	431	Total 3377	C 2140	N 574	O 641	S 22	0	0
42	CY	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	DC	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	DM	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DO	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DQ	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	DU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	DY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	EC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EG	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EI	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EM	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EO	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	ES	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EU	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	EW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	EY	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	FC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	FE	428	Total 3357	C 2130	N 571	O 634	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	FG	430	3371	2137	573	639	22	0	0
42	FI	430	3371	2137	573	639	22	0	0
42	FK	430	3371	2137	573	639	22	0	0
42	FM	430	3371	2137	573	639	22	0	0
42	FO	430	3371	2137	573	639	22	0	0
42	FQ	431	3379	2141	574	642	22	0	0
42	FS	431	3379	2141	574	642	22	0	0
42	FU	430	3371	2137	573	639	22	0	0
42	FW	430	3371	2137	573	639	22	0	0
42	FY	430	3371	2137	573	639	22	0	0
42	GC	431	3379	2141	574	642	22	0	0
42	GE	432	3385	2144	575	644	22	0	0
42	GG	430	3373	2138	573	640	22	0	0
42	GI	431	3379	2141	574	642	22	0	0
42	GK	433	3396	2151	577	646	22	0	0
42	GM	430	3373	2138	573	640	22	0	0
42	GO	430	3373	2138	573	640	22	0	0
42	GQ	430	3371	2137	573	639	22	0	0
42	GS	431	3379	2141	574	642	22	0	0
42	GU	432	3383	2143	575	643	22	0	0
42	GW	439	3429	2170	583	654	22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	GY	428	Total 3357	C 2130	N 571	O 634	S 22	0	0
42	HA	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	HE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	HG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	HS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	HU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	HY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	IA	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	IC	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	IE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	IG	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	II	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	IK	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	IM	438	Total 3423	C 2167	N 582	O 652	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	IO	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	IQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	IS	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	IU	432	Total 3387	C 2145	N 575	O 645	S 22	0	0
42	IW	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	IY	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	JC	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	JE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	JG	433	Total 3396	C 2151	N 577	O 646	S 22	0	0
42	JI	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	JK	429	Total 3365	C 2134	N 572	O 637	S 22	0	0
42	JM	429	Total 3365	C 2134	N 572	O 637	S 22	0	0
42	JO	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	JQ	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	JS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	JU	429	Total 3365	C 2134	N 572	O 637	S 22	0	0
42	JW	431	Total 3377	C 2140	N 574	O 641	S 22	0	0
42	JY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	KE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	KG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	KI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	KS	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KU	435	Total 3409	C 2160	N 579	O 648	S 22	0	0
42	KW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	KY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	LC	433	Total 3389	C 2146	N 576	O 645	S 22	0	0
42	LE	433	Total 3389	C 2146	N 576	O 645	S 22	0	0
42	LG	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	LI	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	LK	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	LM	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	LO	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	LQ	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	LS	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	LU	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	LW	434	Total 3397	C 2150	N 577	O 648	S 22	0	0
42	LY	439	Total 3429	C 2170	N 583	O 654	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	MA	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	ME	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	MU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	MY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	NA	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	NC	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	NE	434	Total 3397	C 2150	N 577	O 648	S 22	0	0
42	NG	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	NI	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	NK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	NM	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	NO	432	Total 3387	C 2145	N 575	O 645	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	NQ	432	3385	2144	575	644	22	0	0
42	NS	435	3406	2156	579	649	22	0	0
42	NU	433	3396	2151	577	646	22	0	0
42	NW	433	3393	2148	576	647	22	0	0
42	OA	431	3379	2141	574	642	22	0	0
42	OC	434	3402	2154	578	648	22	0	0
42	OE	433	3393	2148	576	647	22	0	0
42	OG	432	3383	2143	575	643	22	0	0
42	OI	434	3402	2154	578	648	22	0	0
42	OK	438	3423	2167	582	652	22	0	0
42	OM	438	3423	2167	582	652	22	0	0
42	OO	432	3387	2145	575	645	22	0	0
42	OQ	433	3393	2148	576	647	22	0	0
42	OS	432	3385	2144	575	644	22	0	0
42	OU	433	3396	2151	577	646	22	0	0
42	OW	435	3406	2156	579	649	22	0	0
42	OY	432	3387	2145	575	645	22	0	0
42	PA	431	3379	2141	574	642	22	0	0
42	PC	431	3379	2141	574	642	22	0	0
42	PE	431	3379	2141	574	642	22	0	0
42	PG	430	3371	2137	573	639	22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	PI	430	3371	2137	573	639	22	0	0
42	PK	430	3371	2137	573	639	22	0	0
42	PM	430	3371	2137	573	639	22	0	0
42	PO	430	3371	2137	573	639	22	0	0
42	PQ	431	3379	2141	574	642	22	0	0
42	PS	431	3379	2141	574	642	22	0	0
42	PU	430	3371	2137	573	639	22	0	0
42	PW	430	3371	2137	573	639	22	0	0
42	PY	430	3371	2137	573	639	22	0	0
42	QA	431	3379	2141	574	642	22	0	0
42	QC	432	3385	2144	575	644	22	0	0
42	QE	439	3429	2170	583	654	22	0	0
42	QG	430	3373	2138	573	640	22	0	0
42	QI	431	3379	2141	574	642	22	0	0
42	QK	438	3423	2167	582	652	22	0	0
42	QM	435	3407	2157	579	649	22	0	0
42	QO	434	3400	2153	578	647	22	0	0
42	QQ	432	3385	2144	575	644	22	0	0
42	QS	431	3379	2141	574	642	22	0	0
42	QU	429	3365	2134	572	637	22	0	0
42	QW	431	3379	2141	574	642	22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	QY	432	Total 3387	C 2145	N 575	O 645	S 22	0	0
42	RA	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	RC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	RE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	RG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	RS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	RU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	RY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	SC	434	Total 3402	C 2154	N 578	O 648	S 22	0	0
42	SE	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	SG	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	SI	434	Total 3402	C 2154	N 578	O 648	S 22	0	0
42	SK	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	SM	438	Total 3423	C 2167	N 582	O 652	S 22	0	0
42	SO	430	Total 3373	C 2138	N 573	O 640	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	SQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	SS	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	SU	432	Total 3387	C 2145	N 575	O 645	S 22	0	0
42	SW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	SY	433	Total 3391	C 2147	N 576	O 646	S 22	0	0
42	TC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	TE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	TG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	TS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	TU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	TY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	UC	434	Total 3397	C 2150	N 577	O 648	S 22	0	0
42	UE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	UG	431	Total 3377	C 2140	N 574	O 641	S 22	0	0
42	UI	431	Total 3379	C 2141	N 574	O 642	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	UK	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	UM	430	Total 3373	C 2138	N 573	O 640	S 22	0	0
42	UO	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	UQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	US	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	UU	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	UW	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	UY	432	Total 3387	C 2145	N 575	O 645	S 22	0	0
42	VC	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	VE	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	VG	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VI	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VK	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VM	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VO	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VQ	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	VS	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	VU	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VW	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	VY	430	Total 3371	C 2137	N 573	O 639	S 22	0	0
42	WA	439	Total 3429	C 2170	N 583	O 654	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	WC	432	Total 3385	C 2144	N 575	O 644	S 22	0	0
42	WE	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WG	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	WI	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WK	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WM	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WO	431	Total 3379	C 2141	N 574	O 642	S 22	0	0
42	WQ	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WS	432	Total 3383	C 2143	N 575	O 643	S 22	0	0
42	WU	439	Total 3429	C 2170	N 583	O 654	S 22	0	0
42	WW	439	Total 3429	C 2170	N 583	O 654	S 22	0	0

- Molecule 43 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	AB	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AD	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AF	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AH	433	Total 3400	C 2134	N 581	O 659	S 26	0	0
43	AJ	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AL	434	Total 3404	C 2136	N 582	O 660	S 26	0	0
43	AN	434	Total 3404	C 2136	N 582	O 660	S 26	0	0
43	AP	437	Total 3433	C 2155	N 585	O 667	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	AR	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AT	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AV	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	AX	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	BB	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	BD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	BH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BJ	430	Total 3373	C 2119	N 578	O 650	S 26	0	0
43	BL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BP	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	BR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BT	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	BV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	BX	430	Total 3373	C 2119	N 578	O 650	S 26	0	0
43	CB	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	CD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	CH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CJ	427	Total 3356	C 2109	N 575	O 646	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	CL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	CR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CT	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	CV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	CX	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	CZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	DZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	EB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ED	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	EP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ER	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ET	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	EZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	FP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	FR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	FZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	GP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	GZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HB	411	Total 3214	C 2016	N 549	O 624	S 25	0	0
43	HD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	HH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	HP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	HZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ID	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	IP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	IV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	IX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	JP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	JZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KD	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KL	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	KN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	KP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KR	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KT	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	KX	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	KZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LB	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LF	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LJ	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LN	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	LR	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LV	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	LX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	LZ	436	Total 3424	C 2150	N 584	O 664	S 26	0	0
43	MD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	MH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ML	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	MP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	MZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	NB	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	ND	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NL	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NR	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	NV	428	Total 3361	C 2112	N 576	O 647	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	NX	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	NZ	430	Total 3373	C 2119	N 578	O 650	S 26	0	0
43	OB	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	OD	429	Total 3368	C 2116	N 577	O 649	S 26	0	0
43	OF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	OH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	OJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	OL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ON	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	OP	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	OR	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	OT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	OV	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	OX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PD	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	PF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	PH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	PP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	PX	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	QB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	QP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	QX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	RJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	RP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	RX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	SP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	ST	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	SX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	TD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	TP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	TZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
43	UP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	UT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	UZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VN	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
43	VP	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VR	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VT	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VV	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VX	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	VZ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
43	WB	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WD	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WF	437	Total 3433	C 2155	N 585	O 667	S 26	0	0
43	WH	437	Total 3433	C 2155	N 585	O 667	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
43	WJ	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	WL	434	Total	C	N	O	S	0	0
			3404	2136	582	660	26		
43	WN	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WP	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WR	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WT	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WV	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		
43	WX	437	Total	C	N	O	S	0	0
			3433	2155	585	667	26		

- Molecule 44 is a protein called Radial spoke head protein 3 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	E	169	Total	C	N	O	S	0	0
			1405	876	250	272	7		
44	F	217	Total	C	N	O	S	0	0
			1795	1125	311	350	9		
44	e	216	Total	C	N	O	S	0	0
			1783	1116	310	348	9		
44	f	213	Total	C	N	O	S	0	0
			1761	1104	304	344	9		

- Molecule 45 is a protein called Radial spoke head protein 4 homolog A.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	G	460	Total	C	N	O	S	0	0
			3714	2353	600	753	8		
45	H	467	Total	C	N	O	S	0	0
			3767	2387	607	764	9		
45	I	464	Total	C	N	O	S	0	0
			3746	2374	604	760	8		
45	J	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		
45	g	466	Total	C	N	O	S	0	0
			3760	2382	606	763	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	h	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		
45	i	468	Total	C	N	O	S	0	0
			3772	2390	608	765	9		
45	j	470	Total	C	N	O	S	0	0
			3788	2400	610	769	9		

- Molecule 46 is a protein called Sperm surface protein Sp17.

Mol	Chain	Residues	Atoms				AltConf	Trace
46	K	32	Total	C	N	O	0	0
			255	166	41	48		
46	L	35	Total	C	N	O	0	0
			277	178	45	54		
46	k	32	Total	C	N	O	0	0
			255	166	41	48		
46	l	38	Total	C	N	O	0	0
			306	195	52	59		

- Molecule 47 is a protein called Radial spoke head protein 9 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	M	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	N	257	Total	C	N	O	S	0	0
			2050	1314	343	384	9		
47	O	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	P	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		
47	m	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	n	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		
47	o	276	Total	C	N	O	S	0	0
			2205	1412	366	418	9		
47	p	262	Total	C	N	O	S	0	0
			2088	1339	348	392	9		

- Molecule 48 is a protein called Ropporin-1-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	Q	174	Total	C	N	O	S	0	0
			1392	896	240	246	10		
48	R	37	Total	C	N	O		0	0
			300	196	52	52			
48	q	206	Total	C	N	O	S	0	0
			1641	1053	279	298	11		
48	r	42	Total	C	N	O	S	0	0
			330	214	57	58	1		

- Molecule 49 is a protein called Probable inactive peptidyl-prolyl cis-trans isomerase-like 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	S	290	Total	C	N	O	S	0	0
			2336	1496	400	431	9		
49	s	290	Total	C	N	O	S	0	0
			2336	1496	400	431	9		

- Molecule 50 is a protein called Radial spoke head 14 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	T	336	Total	C	N	O	S	0	0
			2612	1660	451	485	16		
50	t	325	Total	C	N	O	S	0	0
			2528	1608	437	467	16		

- Molecule 51 is a protein called DnaJ homolog subfamily B member 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	U	296	Total	C	N	O	S	0	0
			2397	1540	415	435	7		
51	V	297	Total	C	N	O	S	0	0
			2406	1545	417	437	7		
51	u	296	Total	C	N	O	S	0	0
			2397	1540	415	435	7		
51	v	297	Total	C	N	O	S	0	0
			2406	1545	417	437	7		

- Molecule 52 is a protein called Calmodulin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	W	142	Total	C	N	O	S	0	0
			1121	687	180	245	9		

- Molecule 53 is a protein called Nucleoside diphosphate kinase homolog 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	X	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	Y	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	x	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		
53	y	192	Total	C	N	O	S	0	0
			1537	993	259	277	8		

- Molecule 54 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	XA	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XB	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XC	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XD	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XE	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XF	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XG	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XH	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XI	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XJ	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XK	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XL	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		
54	XM	186	Total	C	N	O	S	0	0
			1549	998	270	274	7		

- Molecule 55 is a protein called Parkin coregulated gene protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	YB	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YC	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YD	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YF	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YG	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YH	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YI	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YJ	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YK	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YL	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		
55	YM	220	Total	C	N	O	S	0	0
			1771	1147	301	314	9		

- Molecule 56 is a protein called Cytochrome b5 domain-containing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	Z	214	Total	C	N	O	S	0	0
			1784	1145	303	331	5		
56	z	209	Total	C	N	O	S	0	0
			1735	1111	297	322	5		

- Molecule 57 is a protein called Unknown.

Mol	Chain	Residues	Atoms				AltConf	Trace
57	a0	72	Total	C	N	O	0	0
			360	216	72	72		

- Molecule 58 is a protein called DYNLL1.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	a1	83	Total	C	N	O	S	0	0
			680	438	112	126	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
58	a2	84	685	441	113	127	4	0	0
58	a3	83	684	442	113	125	4	0	0
58	a4	88	719	460	121	133	5	0	0
58	a5	84	690	445	114	127	4	0	0
58	a6	83	681	439	112	126	4	0	0
58	a7	85	694	447	115	128	4	0	0
58	a8	86	705	453	119	129	4	0	0
58	a9	85	694	447	115	128	4	0	0
58	b0	89	727	465	122	134	6	0	0
58	b1	85	694	447	115	128	4	0	0
58	b2	89	727	465	122	134	6	0	0
58	b3	87	717	460	120	131	6	0	0
58	b4	84	695	448	117	126	4	0	0
58	b5	84	695	448	117	126	4	0	0
58	b6	83	684	442	113	125	4	0	0
58	b7	86	705	453	119	129	4	0	0
58	b8	87	713	457	120	132	4	0	0
58	b9	89	727	465	122	134	6	0	0
58	c0	85	694	447	115	128	4	0	0
58	l1	89	727	465	122	134	6	0	0
58	l2	89	727	465	122	134	6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
58	l3	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	l4	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	l5	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	l6	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n1	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n2	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n3	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n4	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n5	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	n6	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p1	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p2	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p3	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p4	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p5	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	p6	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	r1	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	r2	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	r3	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	r4	89	Total	C	N	O	S	0	0
			727	465	122	134	6		
58	r5	89	Total	C	N	O	S	0	0
			727	465	122	134	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
58	r6	89	727	465	122	134	6	0	0

- Molecule 59 is a protein called MORN repeat-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
59	c1	228	1858	1178	329	341	10	0	0

- Molecule 60 is a protein called IQ and ubiquitin-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
60	c2	631	5234	3355	910	948	21	0	0

- Molecule 61 is a protein called DPY30 domain-containing protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
61	c3	44	363	234	64	62	3	0	0
61	c4	55	458	292	83	80	3	0	0
61	c5	61	515	328	92	92	3	0	0
61	c6	61	515	328	92	92	3	0	0

- Molecule 62 is a protein called Cilia- and flagella-associated protein 61.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
62	d0	1092	8819	5669	1488	1608	54	0	0

- Molecule 63 is a protein called Cilia- and flagella-associated protein 91.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
63	d1	523	4340	2753	774	794	19	0	0

- Molecule 64 is a protein called Cilia- and flagella-associated protein 251.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
64	d2	907	7227	4652	1193	1342	40	0	0

- Molecule 65 is a protein called Tetratricopeptide repeat protein 29.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
65	d3	419	3431	2178	578	654	21	0	0

- Molecule 66 is a protein called Zinc finger MYND domain-containing protein 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
66	d4	358	2885	1846	485	537	17	0	0

- Molecule 67 is a protein called ACTA2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
67	d5	377	2944	1859	495	567	23	0	0
67	d6	377	2944	1859	495	567	23	0	0
67	d7	370	2889	1829	488	551	21	0	0
67	d8	377	2944	1859	495	567	23	0	0
67	d9	367	2864	1813	485	546	20	0	0
67	f1	371	2895	1832	489	553	21	0	0

- Molecule 68 is a protein called Axonemal dynein light intermediate polypeptide 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
68	e0	209	1713	1060	312	333	8	0	0
68	e1	198	1635	1009	299	319	8	0	0
68	e2	209	1713	1060	312	333	8	0	0
68	e3	198	1635	1009	299	319	8	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
68	e4	200	Total	C	N	O	S	0	0
			1645	1017	302	318	8		
68	e5	199	Total	C	N	O	S	0	0
			1639	1012	299	319	9		
68	e6	199	Total	C	N	O	S	0	0
			1639	1013	299	319	8		
68	e7	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		
68	e8	209	Total	C	N	O	S	0	0
			1713	1060	312	333	8		
68	e9	198	Total	C	N	O	S	0	0
			1635	1009	299	319	8		

- Molecule 69 is a protein called Centrin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	f2	147	Total	C	N	O	S	0	0
			1183	739	191	246	7		

- Molecule 70 is a protein called Dynein axonemal heavy chain 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	g1	3939	Total	C	N	O	S	0	0
			31794	20376	5309	5921	188		

- Molecule 71 is a protein called Dynein axonemal heavy chain 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	g2	507	Total	C	N	O	S	0	0
			4176	2676	697	775	28		
71	g4	437	Total	C	N	O	S	0	0
			3610	2320	604	664	22		

- Molecule 72 is a protein called Dynein axonemal heavy chain 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	g3	571	Total	C	N	O	S	0	0
			4660	2997	783	849	31		

- Molecule 73 is a protein called Dynein axonemal heavy chain 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
73	g5	3978	32054	20492	5401	5990	171	0	0

- Molecule 74 is a protein called Dynein axonemal heavy chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
74	g6	4174	33600	21465	5650	6286	199	0	0

- Molecule 75 is a protein called Coiled-coil domain-containing protein 39.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
75	h1	388	3183	1954	570	648	11	0	0
75	h2	475	3959	2468	689	784	18	0	0

- Molecule 76 is a protein called Coiled-coil domain-containing protein 40.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
76	h3	387	3152	1944	578	613	17	0	0
76	h4	480	3932	2425	732	757	18	0	0

- Molecule 77 is a protein called Coiled-coil domain-containing protein 96.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
77	i1	305	2509	1552	477	467	13	0	0

- Molecule 78 is a protein called Coiled-coil domain-containing protein 113.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
78	i2	364	2998	1866	548	570	14	0	0

- Molecule 79 is a protein called Cilia- and flagella-associated protein 299.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
79	i3	194	1592	1006	274	311	1	0	0

- Molecule 80 is a protein called Cilia- and flagella-associated protein 57.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
80	i4	1021	Total	C	N	O	S	0	0
			8344	5265	1440	1599	40		
80	i5	1049	Total	C	N	O	S	0	0
			8561	5402	1477	1641	41		

- Molecule 81 is a protein called Cilia- and flagella-associated protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
81	i6	165	Total	C	N	O	S	0	0
			1363	854	240	255	14		
81	i8	1379	Total	C	N	O	S	0	0
			11188	7146	1869	2111	62		

- Molecule 82 is a protein called Cilia- and flagella-associated protein 44.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
82	i7	160	Total	C	N	O	S	0	0
			1326	826	248	242	10		
82	i9	1338	Total	C	N	O	S	0	0
			10895	6968	1841	2028	58		

- Molecule 83 is a protein called Cilia- and flagella-associated protein 58.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
83	j1	458	Total	C	N	O	S	0	0
			3859	2403	710	734	12		
83	j2	471	Total	C	N	O	S	0	0
			3973	2477	732	752	12		

- Molecule 84 is a protein called Cilia- and flagella-associated protein 73.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
84	j3	254	Total	C	N	O	S	0	0
			2104	1304	412	383	5		

- Molecule 85 is a protein called Cilia- and flagella-associated protein 100.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
85	j4	244	Total	C	N	O	S	0	0
			2021	1266	342	404	9		

- Molecule 86 is a protein called Dynein axonemal intermediate chain 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
86	k1	590	4743	3035	781	897	30	0	0

- Molecule 87 is a protein called Dynein axonemal intermediate chain 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
87	k2	500	3991	2544	673	749	25	0	0

- Molecule 88 is a protein called Dynein axonemal intermediate chain 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
88	k3	497	4044	2608	666	751	19	0	0

- Molecule 89 is a protein called Dynein light chain roadblock-type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
89	k4	96	764	481	131	148	4	0	0
89	m4	96	764	481	131	148	4	0	0
89	o4	96	764	481	131	148	4	0	0
89	q4	96	764	481	131	148	4	0	0

- Molecule 90 is a protein called Dynein light chain roadblock-type 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
90	k5	96	758	476	134	143	5	0	0
90	m5	96	758	476	134	143	5	0	0
90	o5	96	758	476	134	143	5	0	0
90	q5	96	758	476	134	143	5	0	0

- Molecule 91 is a protein called Dynein axonemal heavy chain 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
91	k8	4443	36045	23070	6109	6666	200	0	0

- Molecule 92 is a protein called Dynein axonemal heavy chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
92	k9	4349	35139	22447	6004	6497	191	0	0

- Molecule 93 is a protein called Dynein light chain Tctex-type protein 2B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
93	l7	105	854	545	141	159	9	0	0
93	n7	113	924	592	154	169	9	0	0
93	p7	113	924	592	154	169	9	0	0
93	r7	113	924	592	154	169	9	0	0

- Molecule 94 is a protein called Dynein light chain Tctex-type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
94	l8	102	785	497	130	152	6	0	0
94	n8	103	790	500	131	153	6	0	0
94	p8	103	790	500	131	153	6	0	0
94	r8	90	687	435	117	129	6	0	0

- Molecule 95 is a protein called Calaxin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
95	m0	211	1716	1091	284	326	15	0	0
95	q0	211	1716	1091	284	326	15	0	0
95	s0	211	1716	1091	284	326	15	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
95	u0	211	1716	1091	284	326	15	0	0

- Molecule 96 is a protein called Dynein axonemal intermediate chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
96	m1	527	4241	2704	729	788	20	0	0
96	o1	527	4241	2704	729	788	20	0	0
96	q1	527	4241	2704	729	788	20	0	0
96	s1	414	3320	2132	557	612	19	0	0

- Molecule 97 is a protein called Dynein axonemal intermediate chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
97	m2	529	4233	2669	723	812	29	0	0
97	o2	529	4233	2669	723	812	29	0	0
97	q2	529	4233	2669	723	812	29	0	0
97	s2	398	3161	2002	538	600	21	0	0

- Molecule 98 is a protein called Dynein axonemal light chain 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
98	m3	190	1509	960	254	287	8	0	0
98	o3	190	1509	960	254	287	8	0	0
98	q3	190	1509	960	254	287	8	0	0

- Molecule 99 is a protein called Outer dynein arm-docking complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
99	m6	349	2926	1816	554	547	9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
99	o6	189	Total	C	N	O	S	0	0
			1567	986	278	297	6		
99	q6	349	Total	C	N	O	S	0	0
			2926	1816	554	547	9		
99	s6	349	Total	C	N	O	S	0	0
			2926	1816	554	547	9		
99	u6	212	Total	C	N	O	S	0	0
			1772	1085	352	330	5		

- Molecule 100 is a protein called Outer dynein arm-docking complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
100	m7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	q7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	s7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		
100	u7	599	Total	C	N	O	S	0	0
			4591	2866	832	861	32		

- Molecule 101 is a protein called Outer dynein arm-docking complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
101	m8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	o8	239	Total	C	N	O	S	0	0
			1970	1214	370	378	8		
101	q8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	s8	419	Total	C	N	O	S	0	0
			3484	2160	657	655	12		
101	u8	231	Total	C	N	O	S	0	0
			1944	1210	370	359	5		

- Molecule 102 is a protein called Outer dynein arm-docking complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
102	m9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		
102	q9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
102	s9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		
102	u9	204	Total	C	N	O	S	0	0
			1656	1048	285	313	10		

- Molecule 103 is a protein called Dynein axonemal heavy chain 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
103	n0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	p0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	r0	4575	Total	C	N	O	S	0	0
			36802	23465	6234	6895	208		
103	t0	836	Total	C	N	O	S	0	0
			6751	4318	1150	1251	32		

- Molecule 104 is a protein called Dynein axonemal heavy chain 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
104	n9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	p9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	r9	4486	Total	C	N	O	S	0	0
			36021	22986	6125	6720	190		
104	t9	718	Total	C	N	O	S	0	0
			5742	3642	1001	1072	27		

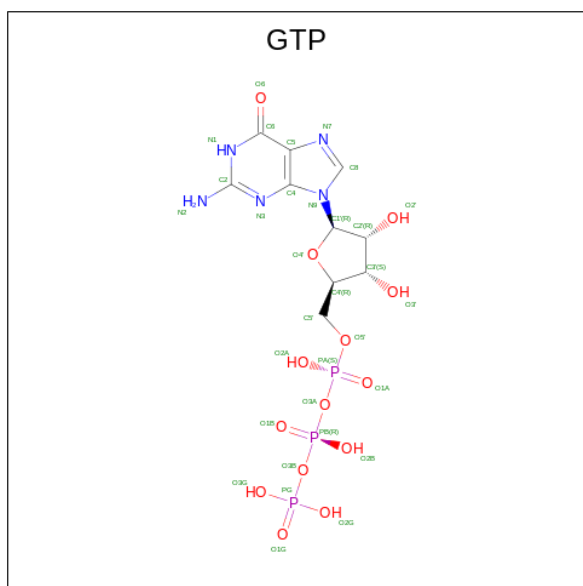
- Molecule 105 is a protein called Thioredoxin domain-containing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
105	v1	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		
105	v2	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		
105	v3	133	Total	C	N	O	S	0	0
			1043	664	173	200	6		

- Molecule 106 is a protein called Leucine-rich repeat-containing protein 34.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
106	w	412	3229	2048	546	614	21	0	0

- Molecule 107 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	AZ	1	Total 32	C 10	N 5	O 14	P 3	0
107	AC	1	Total 32	C 10	N 5	O 14	P 3	0
107	AE	1	Total 32	C 10	N 5	O 14	P 3	0
107	AG	1	Total 32	C 10	N 5	O 14	P 3	0
107	AI	1	Total 32	C 10	N 5	O 14	P 3	0
107	AK	1	Total 32	C 10	N 5	O 14	P 3	0
107	AM	1	Total 32	C 10	N 5	O 14	P 3	0
107	AO	1	Total 32	C 10	N 5	O 14	P 3	0
107	AQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	AS	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	AU	1	32	10	5	14	3	0
107	AW	1	32	10	5	14	3	0
107	AY	1	32	10	5	14	3	0
107	BA	1	32	10	5	14	3	0
107	BC	1	32	10	5	14	3	0
107	BE	1	32	10	5	14	3	0
107	BG	1	32	10	5	14	3	0
107	BI	1	32	10	5	14	3	0
107	BK	1	32	10	5	14	3	0
107	BM	1	32	10	5	14	3	0
107	BO	1	32	10	5	14	3	0
107	BQ	1	32	10	5	14	3	0
107	BS	1	32	10	5	14	3	0
107	BU	1	32	10	5	14	3	0
107	BW	1	32	10	5	14	3	0
107	BY	1	32	10	5	14	3	0
107	CC	1	32	10	5	14	3	0
107	CE	1	32	10	5	14	3	0
107	CG	1	32	10	5	14	3	0
107	CI	1	32	10	5	14	3	0
107	CK	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	CM	1	Total 32	C 10	N 5	O 14	P 3	0
107	CO	1	Total 32	C 10	N 5	O 14	P 3	0
107	CQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	CS	1	Total 32	C 10	N 5	O 14	P 3	0
107	CU	1	Total 32	C 10	N 5	O 14	P 3	0
107	CW	1	Total 32	C 10	N 5	O 14	P 3	0
107	CY	1	Total 32	C 10	N 5	O 14	P 3	0
107	DC	1	Total 32	C 10	N 5	O 14	P 3	0
107	DE	1	Total 32	C 10	N 5	O 14	P 3	0
107	DG	1	Total 32	C 10	N 5	O 14	P 3	0
107	DI	1	Total 32	C 10	N 5	O 14	P 3	0
107	DK	1	Total 32	C 10	N 5	O 14	P 3	0
107	DM	1	Total 32	C 10	N 5	O 14	P 3	0
107	DO	1	Total 32	C 10	N 5	O 14	P 3	0
107	DQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	DS	1	Total 32	C 10	N 5	O 14	P 3	0
107	DU	1	Total 32	C 10	N 5	O 14	P 3	0
107	DW	1	Total 32	C 10	N 5	O 14	P 3	0
107	DY	1	Total 32	C 10	N 5	O 14	P 3	0
107	EC	1	Total 32	C 10	N 5	O 14	P 3	0
107	EE	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	EG	1	Total 32	10	5	14	3	0
107	EI	1	Total 32	10	5	14	3	0
107	EK	1	Total 32	10	5	14	3	0
107	EM	1	Total 32	10	5	14	3	0
107	EO	1	Total 32	10	5	14	3	0
107	EQ	1	Total 32	10	5	14	3	0
107	ES	1	Total 32	10	5	14	3	0
107	EU	1	Total 32	10	5	14	3	0
107	EW	1	Total 32	10	5	14	3	0
107	EY	1	Total 32	10	5	14	3	0
107	FC	1	Total 32	10	5	14	3	0
107	FE	1	Total 32	10	5	14	3	0
107	FG	1	Total 32	10	5	14	3	0
107	FI	1	Total 32	10	5	14	3	0
107	FK	1	Total 32	10	5	14	3	0
107	FM	1	Total 32	10	5	14	3	0
107	FN	1	Total 32	10	5	14	3	0
107	FQ	1	Total 32	10	5	14	3	0
107	FS	1	Total 32	10	5	14	3	0
107	FU	1	Total 32	10	5	14	3	0
107	FW	1	Total 32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	FY	1	32	10	5	14	3	0
107	GC	1	32	10	5	14	3	0
107	GE	1	32	10	5	14	3	0
107	GG	1	32	10	5	14	3	0
107	GI	1	32	10	5	14	3	0
107	GK	1	32	10	5	14	3	0
107	GM	1	32	10	5	14	3	0
107	GO	1	32	10	5	14	3	0
107	GQ	1	32	10	5	14	3	0
107	GR	1	32	10	5	14	3	0
107	GU	1	32	10	5	14	3	0
107	GW	1	32	10	5	14	3	0
107	GX	1	32	10	5	14	3	0
107	HA	1	32	10	5	14	3	0
107	HC	1	32	10	5	14	3	0
107	HE	1	32	10	5	14	3	0
107	HF	1	32	10	5	14	3	0
107	HI	1	32	10	5	14	3	0
107	HK	1	32	10	5	14	3	0
107	HM	1	32	10	5	14	3	0
107	HN	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	HQ	1	32	10	5	14	3	0
107	HS	1	32	10	5	14	3	0
107	HU	1	32	10	5	14	3	0
107	HW	1	32	10	5	14	3	0
107	HY	1	32	10	5	14	3	0
107	IA	1	32	10	5	14	3	0
107	IC	1	32	10	5	14	3	0
107	ID	1	32	10	5	14	3	0
107	IG	1	32	10	5	14	3	0
107	II	1	32	10	5	14	3	0
107	IK	1	32	10	5	14	3	0
107	IM	1	32	10	5	14	3	0
107	IO	1	32	10	5	14	3	0
107	IQ	1	32	10	5	14	3	0
107	IS	1	32	10	5	14	3	0
107	IU	1	32	10	5	14	3	0
107	IW	1	32	10	5	14	3	0
107	IY	1	32	10	5	14	3	0
107	JC	1	32	10	5	14	3	0
107	JD	1	32	10	5	14	3	0
107	JG	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	JI	1	Total 32	10	5	14	3	0
107	JJ	1	Total 32	10	5	14	3	0
107	JM	1	Total 32	10	5	14	3	0
107	JO	1	Total 32	10	5	14	3	0
107	JQ	1	Total 32	10	5	14	3	0
107	JR	1	Total 32	10	5	14	3	0
107	JU	1	Total 32	10	5	14	3	0
107	JW	1	Total 32	10	5	14	3	0
107	JY	1	Total 32	10	5	14	3	0
107	KC	1	Total 32	10	5	14	3	0
107	KE	1	Total 32	10	5	14	3	0
107	KF	1	Total 32	10	5	14	3	0
107	KI	1	Total 32	10	5	14	3	0
107	KK	1	Total 32	10	5	14	3	0
107	KM	1	Total 32	10	5	14	3	0
107	KN	1	Total 32	10	5	14	3	0
107	KQ	1	Total 32	10	5	14	3	0
107	KS	1	Total 32	10	5	14	3	0
107	KU	1	Total 32	10	5	14	3	0
107	KW	1	Total 32	10	5	14	3	0
107	KY	1	Total 32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	LC	1	Total 32	C 10	N 5	O 14	P 3	0
107	LE	1	Total 32	C 10	N 5	O 14	P 3	0
107	LG	1	Total 32	C 10	N 5	O 14	P 3	0
107	LI	1	Total 32	C 10	N 5	O 14	P 3	0
107	LK	1	Total 32	C 10	N 5	O 14	P 3	0
107	LM	1	Total 32	C 10	N 5	O 14	P 3	0
107	LO	1	Total 32	C 10	N 5	O 14	P 3	0
107	LQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	LS	1	Total 32	C 10	N 5	O 14	P 3	0
107	LU	1	Total 32	C 10	N 5	O 14	P 3	0
107	LW	1	Total 32	C 10	N 5	O 14	P 3	0
107	LY	1	Total 32	C 10	N 5	O 14	P 3	0
107	MA	1	Total 32	C 10	N 5	O 14	P 3	0
107	MC	1	Total 32	C 10	N 5	O 14	P 3	0
107	ME	1	Total 32	C 10	N 5	O 14	P 3	0
107	MG	1	Total 32	C 10	N 5	O 14	P 3	0
107	MI	1	Total 32	C 10	N 5	O 14	P 3	0
107	MK	1	Total 32	C 10	N 5	O 14	P 3	0
107	MM	1	Total 32	C 10	N 5	O 14	P 3	0
107	MN	1	Total 32	C 10	N 5	O 14	P 3	0
107	MQ	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	MS	1	Total 32	C 10	N 5	O 14	P 3	0
107	MT	1	Total 32	C 10	N 5	O 14	P 3	0
107	MW	1	Total 32	C 10	N 5	O 14	P 3	0
107	MY	1	Total 32	C 10	N 5	O 14	P 3	0
107	NA	1	Total 32	C 10	N 5	O 14	P 3	0
107	NC	1	Total 32	C 10	N 5	O 14	P 3	0
107	ND	1	Total 32	C 10	N 5	O 14	P 3	0
107	NG	1	Total 32	C 10	N 5	O 14	P 3	0
107	NI	1	Total 32	C 10	N 5	O 14	P 3	0
107	NK	1	Total 32	C 10	N 5	O 14	P 3	0
107	NL	1	Total 32	C 10	N 5	O 14	P 3	0
107	NO	1	Total 32	C 10	N 5	O 14	P 3	0
107	NQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	NS	1	Total 32	C 10	N 5	O 14	P 3	0
107	NU	1	Total 32	C 10	N 5	O 14	P 3	0
107	NW	1	Total 32	C 10	N 5	O 14	P 3	0
107	OA	1	Total 32	C 10	N 5	O 14	P 3	0
107	OC	1	Total 32	C 10	N 5	O 14	P 3	0
107	OE	1	Total 32	C 10	N 5	O 14	P 3	0
107	OG	1	Total 32	C 10	N 5	O 14	P 3	0
107	OI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	OK	1	Total 32	C 10	N 5	O 14	P 3	0
107	OM	1	Total 32	C 10	N 5	O 14	P 3	0
107	OO	1	Total 32	C 10	N 5	O 14	P 3	0
107	OQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	OS	1	Total 32	C 10	N 5	O 14	P 3	0
107	OU	1	Total 32	C 10	N 5	O 14	P 3	0
107	OW	1	Total 32	C 10	N 5	O 14	P 3	0
107	OY	1	Total 32	C 10	N 5	O 14	P 3	0
107	PA	1	Total 32	C 10	N 5	O 14	P 3	0
107	PC	1	Total 32	C 10	N 5	O 14	P 3	0
107	PE	1	Total 32	C 10	N 5	O 14	P 3	0
107	PG	1	Total 32	C 10	N 5	O 14	P 3	0
107	PI	1	Total 32	C 10	N 5	O 14	P 3	0
107	PK	1	Total 32	C 10	N 5	O 14	P 3	0
107	PM	1	Total 32	C 10	N 5	O 14	P 3	0
107	PN	1	Total 32	C 10	N 5	O 14	P 3	0
107	PQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	PS	1	Total 32	C 10	N 5	O 14	P 3	0
107	PT	1	Total 32	C 10	N 5	O 14	P 3	0
107	PW	1	Total 32	C 10	N 5	O 14	P 3	0
107	PY	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	QA	1	Total 32	C 10	N 5	O 14	P 3	0
107	QC	1	Total 32	C 10	N 5	O 14	P 3	0
107	QD	1	Total 32	C 10	N 5	O 14	P 3	0
107	QG	1	Total 32	C 10	N 5	O 14	P 3	0
107	QI	1	Total 32	C 10	N 5	O 14	P 3	0
107	QK	1	Total 32	C 10	N 5	O 14	P 3	0
107	QL	1	Total 32	C 10	N 5	O 14	P 3	0
107	QO	1	Total 32	C 10	N 5	O 14	P 3	0
107	QQ	1	Total 32	C 10	N 5	O 14	P 3	0
107	QR	1	Total 32	C 10	N 5	O 14	P 3	0
107	QU	1	Total 32	C 10	N 5	O 14	P 3	0
107	QW	1	Total 32	C 10	N 5	O 14	P 3	0
107	QX	1	Total 32	C 10	N 5	O 14	P 3	0
107	RA	1	Total 32	C 10	N 5	O 14	P 3	0
107	RC	1	Total 32	C 10	N 5	O 14	P 3	0
107	RE	1	Total 32	C 10	N 5	O 14	P 3	0
107	RF	1	Total 32	C 10	N 5	O 14	P 3	0
107	RI	1	Total 32	C 10	N 5	O 14	P 3	0
107	RK	1	Total 32	C 10	N 5	O 14	P 3	0
107	RM	1	Total 32	C 10	N 5	O 14	P 3	0
107	RN	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	RQ	1	32	10	5	14	3	0
107	RS	1	32	10	5	14	3	0
107	RT	1	32	10	5	14	3	0
107	RW	1	32	10	5	14	3	0
107	RY	1	32	10	5	14	3	0
107	SC	1	32	10	5	14	3	0
107	SE	1	32	10	5	14	3	0
107	SG	1	32	10	5	14	3	0
107	SI	1	32	10	5	14	3	0
107	SK	1	32	10	5	14	3	0
107	SL	1	32	10	5	14	3	0
107	SO	1	32	10	5	14	3	0
107	SQ	1	32	10	5	14	3	0
107	SR	1	32	10	5	14	3	0
107	SU	1	32	10	5	14	3	0
107	SW	1	32	10	5	14	3	0
107	SX	1	32	10	5	14	3	0
107	TB	1	32	10	5	14	3	0
107	TE	1	32	10	5	14	3	0
107	TG	1	32	10	5	14	3	0
107	TI	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	TK	1	32	10	5	14	3	0
107	TM	1	32	10	5	14	3	0
107	TN	1	32	10	5	14	3	0
107	TQ	1	32	10	5	14	3	0
107	TS	1	32	10	5	14	3	0
107	TU	1	32	10	5	14	3	0
107	TW	1	32	10	5	14	3	0
107	TY	1	32	10	5	14	3	0
107	UC	1	32	10	5	14	3	0
107	UE	1	32	10	5	14	3	0
107	UG	1	32	10	5	14	3	0
107	UI	1	32	10	5	14	3	0
107	UK	1	32	10	5	14	3	0
107	UM	1	32	10	5	14	3	0
107	UO	1	32	10	5	14	3	0
107	UQ	1	32	10	5	14	3	0
107	US	1	32	10	5	14	3	0
107	UU	1	32	10	5	14	3	0
107	UW	1	32	10	5	14	3	0
107	UY	1	32	10	5	14	3	0
107	VC	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	VE	1	32	10	5	14	3	0
107	VG	1	32	10	5	14	3	0
107	VI	1	32	10	5	14	3	0
107	VK	1	32	10	5	14	3	0
107	VM	1	32	10	5	14	3	0
107	VN	1	32	10	5	14	3	0
107	VQ	1	32	10	5	14	3	0
107	VS	1	32	10	5	14	3	0
107	VU	1	32	10	5	14	3	0
107	VW	1	32	10	5	14	3	0
107	VY	1	32	10	5	14	3	0
107	WA	1	32	10	5	14	3	0
107	WC	1	32	10	5	14	3	0
107	WE	1	32	10	5	14	3	0
107	WG	1	32	10	5	14	3	0
107	WI	1	32	10	5	14	3	0
107	WK	1	32	10	5	14	3	0
107	WM	1	32	10	5	14	3	0
107	WO	1	32	10	5	14	3	0
107	WQ	1	32	10	5	14	3	0
107	WS	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
107	WU	1	32	10	5	14	3	0
107	WW	1	32	10	5	14	3	0

- Molecule 108 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	AZ	1	1	1	0
108	AC	1	1	1	0
108	AE	1	1	1	0
108	AG	1	1	1	0
108	AI	1	1	1	0
108	AK	1	1	1	0
108	AM	1	1	1	0
108	AO	1	1	1	0
108	AQ	1	1	1	0
108	AS	1	1	1	0
108	AU	1	1	1	0
108	AW	1	1	1	0
108	AY	1	1	1	0
108	BA	1	1	1	0
108	BC	1	1	1	0
108	BE	1	1	1	0
108	BG	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	BI	1	1	1	0
108	BK	1	1	1	0
108	BM	1	1	1	0
108	BO	1	1	1	0
108	BP	1	1	1	0
108	BS	1	1	1	0
108	BU	1	1	1	0
108	BW	1	1	1	0
108	BY	1	1	1	0
108	CC	1	1	1	0
108	CE	1	1	1	0
108	CG	1	1	1	0
108	CI	1	1	1	0
108	CK	1	1	1	0
108	CM	1	1	1	0
108	CO	1	1	1	0
108	CQ	1	1	1	0
108	CS	1	1	1	0
108	CU	1	1	1	0
108	CW	1	1	1	0
108	CY	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	DC	1	1	1	0
108	DE	1	1	1	0
108	DG	1	1	1	0
108	DI	1	1	1	0
108	DK	1	1	1	0
108	DM	1	1	1	0
108	DO	1	1	1	0
108	DQ	1	1	1	0
108	DS	1	1	1	0
108	DU	1	1	1	0
108	DW	1	1	1	0
108	DY	1	1	1	0
108	EC	1	1	1	0
108	EE	1	1	1	0
108	EG	1	1	1	0
108	EI	1	1	1	0
108	EK	1	1	1	0
108	EM	1	1	1	0
108	EO	1	1	1	0
108	EQ	1	1	1	0
108	ES	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	EU	1	1	1	0
108	EW	1	1	1	0
108	EY	1	1	1	0
108	FB	1	1	1	0
108	FE	1	1	1	0
108	FG	1	1	1	0
108	FH	1	1	1	0
108	FK	1	1	1	0
108	FM	1	1	1	0
108	FO	1	1	1	0
108	FQ	1	1	1	0
108	FS	1	1	1	0
108	FU	1	1	1	0
108	FV	1	1	1	0
108	FY	1	1	1	0
108	GC	1	1	1	0
108	GE	1	1	1	0
108	GG	1	1	1	0
108	GI	1	1	1	0
108	GK	1	1	1	0
108	GM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	GO	1	1	1	0
108	GQ	1	1	1	0
108	GS	1	1	1	0
108	GU	1	1	1	0
108	GW	1	1	1	0
108	GY	1	1	1	0
108	HA	1	1	1	0
108	HC	1	1	1	0
108	HE	1	1	1	0
108	HG	1	1	1	0
108	HH	1	1	1	0
108	HK	1	1	1	0
108	HM	1	1	1	0
108	HO	1	1	1	0
108	HQ	1	1	1	0
108	HS	1	1	1	0
108	HU	1	1	1	0
108	HV	1	1	1	0
108	HY	1	1	1	0
108	IA	1	1	1	0
108	IC	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	IE	1	1	1	0
108	IG	1	1	1	0
108	II	1	1	1	0
108	IK	1	1	1	0
108	IM	1	1	1	0
108	IO	1	1	1	0
108	IQ	1	1	1	0
108	IS	1	1	1	0
108	IU	1	1	1	0
108	IW	1	1	1	0
108	IY	1	1	1	0
108	JC	1	1	1	0
108	JE	1	1	1	0
108	JG	1	1	1	0
108	JI	1	1	1	0
108	JK	1	1	1	0
108	JM	1	1	1	0
108	JO	1	1	1	0
108	JQ	1	1	1	0
108	JS	1	1	1	0
108	JU	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	JW	1	1	1	0
108	JY	1	1	1	0
108	KC	1	1	1	0
108	KE	1	1	1	0
108	KG	1	1	1	0
108	KH	1	1	1	0
108	KK	1	1	1	0
108	KM	1	1	1	0
108	KO	1	1	1	0
108	KQ	1	1	1	0
108	KS	1	1	1	0
108	KU	1	1	1	0
108	KV	1	1	1	0
108	KY	1	1	1	0
108	LC	1	1	1	0
108	LE	1	1	1	0
108	LG	1	1	1	0
108	LI	1	1	1	0
108	LK	1	1	1	0
108	LM	1	1	1	0
108	LO	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	LQ	1	1	1	0
108	LS	1	1	1	0
108	LU	1	1	1	0
108	LW	1	1	1	0
108	LY	1	1	1	0
108	MA	1	1	1	0
108	MC	1	1	1	0
108	ME	1	1	1	0
108	MG	1	1	1	0
108	MH	1	1	1	0
108	MK	1	1	1	0
108	MM	1	1	1	0
108	MO	1	1	1	0
108	MQ	1	1	1	0
108	MS	1	1	1	0
108	MU	1	1	1	0
108	MV	1	1	1	0
108	MY	1	1	1	0
108	NA	1	1	1	0
108	NC	1	1	1	0
108	NE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	NG	1	1	1	0
108	NI	1	1	1	0
108	NK	1	1	1	0
108	NM	1	1	1	0
108	NO	1	1	1	0
108	NQ	1	1	1	0
108	NS	1	1	1	0
108	NU	1	1	1	0
108	NW	1	1	1	0
108	OA	1	1	1	0
108	OC	1	1	1	0
108	OE	1	1	1	0
108	OG	1	1	1	0
108	OI	1	1	1	0
108	OK	1	1	1	0
108	OM	1	1	1	0
108	OO	1	1	1	0
108	OQ	1	1	1	0
108	OS	1	1	1	0
108	OU	1	1	1	0
108	OW	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	OY	1	1	1	0
108	PA	1	1	1	0
108	PC	1	1	1	0
108	PE	1	1	1	0
108	PG	1	1	1	0
108	PI	1	1	1	0
108	PK	1	1	1	0
108	PM	1	1	1	0
108	PO	1	1	1	0
108	PQ	1	1	1	0
108	PS	1	1	1	0
108	PU	1	1	1	0
108	PV	1	1	1	0
108	PY	1	1	1	0
108	QA	1	1	1	0
108	QC	1	1	1	0
108	QE	1	1	1	0
108	QG	1	1	1	0
108	QI	1	1	1	0
108	QK	1	1	1	0
108	QM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	QO	1	1	1	0
108	QQ	1	1	1	0
108	QS	1	1	1	0
108	QU	1	1	1	0
108	QW	1	1	1	0
108	QY	1	1	1	0
108	RA	1	1	1	0
108	RC	1	1	1	0
108	RE	1	1	1	0
108	RG	1	1	1	0
108	RH	1	1	1	0
108	RK	1	1	1	0
108	RM	1	1	1	0
108	RO	1	1	1	0
108	RQ	1	1	1	0
108	RS	1	1	1	0
108	RT	1	1	1	0
108	RV	1	1	1	0
108	RY	1	1	1	0
108	SC	1	1	1	0
108	SE	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	SG	1	1	1	0
108	SI	1	1	1	0
108	SK	1	1	1	0
108	SM	1	1	1	0
108	SO	1	1	1	0
108	SQ	1	1	1	0
108	SS	1	1	1	0
108	SU	1	1	1	0
108	SW	1	1	1	0
108	SY	1	1	1	0
108	TB	1	1	1	0
108	TE	1	1	1	0
108	TG	1	1	1	0
108	TI	1	1	1	0
108	TK	1	1	1	0
108	TM	1	1	1	0
108	TO	1	1	1	0
108	TQ	1	1	1	0
108	TS	1	1	1	0
108	TU	1	1	1	0
108	TW	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
108	TY	1	Total 1	Mg 1	0
108	UC	1	Total 1	Mg 1	0
108	UE	1	Total 1	Mg 1	0
108	UG	1	Total 1	Mg 1	0
108	UI	1	Total 1	Mg 1	0
108	UK	1	Total 1	Mg 1	0
108	UM	1	Total 1	Mg 1	0
108	UO	1	Total 1	Mg 1	0
108	UQ	1	Total 1	Mg 1	0
108	US	1	Total 1	Mg 1	0
108	UU	1	Total 1	Mg 1	0
108	UW	1	Total 1	Mg 1	0
108	UY	1	Total 1	Mg 1	0
108	VC	1	Total 1	Mg 1	0
108	VE	1	Total 1	Mg 1	0
108	VG	1	Total 1	Mg 1	0
108	VH	1	Total 1	Mg 1	0
108	VK	1	Total 1	Mg 1	0
108	VM	1	Total 1	Mg 1	0
108	VO	1	Total 1	Mg 1	0
108	VQ	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
108	VS	1	1	1	0
108	VU	1	1	1	0
108	VV	1	1	1	0
108	VY	1	1	1	0
108	WA	1	1	1	0
108	WC	1	1	1	0
108	WE	1	1	1	0
108	WG	1	1	1	0
108	WI	1	1	1	0
108	WK	1	1	1	0
108	WM	1	1	1	0
108	WO	1	1	1	0
108	WQ	1	1	1	0
108	WS	1	1	1	0
108	WU	1	1	1	0
108	WW	1	1	1	0

- Molecule 109 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	BF	1	28	10	5	11	2	0
109	BH	1	28	10	5	11	2	0
109	BJ	1	28	10	5	11	2	0
109	BL	1	28	10	5	11	2	0
109	BN	1	28	10	5	11	2	0
109	BP	1	28	10	5	11	2	0
109	BR	1	28	10	5	11	2	0
109	BT	1	28	10	5	11	2	0
109	BV	1	28	10	5	11	2	0
109	BX	1	28	10	5	11	2	0
109	CB	1	28	10	5	11	2	0
109	CD	1	28	10	5	11	2	0
109	CF	1	28	10	5	11	2	0
109	CH	1	28	10	5	11	2	0
109	CJ	1	28	10	5	11	2	0
109	CL	1	28	10	5	11	2	0
109	CN	1	28	10	5	11	2	0
109	CP	1	28	10	5	11	2	0
109	CR	1	28	10	5	11	2	0
109	CT	1	28	10	5	11	2	0
109	CV	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	CX	1	28	10	5	11	2	0
109	CZ	1	28	10	5	11	2	0
109	DB	1	28	10	5	11	2	0
109	DD	1	28	10	5	11	2	0
109	DF	1	28	10	5	11	2	0
109	DH	1	28	10	5	11	2	0
109	DJ	1	28	10	5	11	2	0
109	DL	1	28	10	5	11	2	0
109	DN	1	28	10	5	11	2	0
109	DP	1	28	10	5	11	2	0
109	DR	1	28	10	5	11	2	0
109	DT	1	28	10	5	11	2	0
109	DV	1	28	10	5	11	2	0
109	DX	1	28	10	5	11	2	0
109	DZ	1	28	10	5	11	2	0
109	EB	1	28	10	5	11	2	0
109	ED	1	28	10	5	11	2	0
109	EF	1	28	10	5	11	2	0
109	EH	1	28	10	5	11	2	0
109	EJ	1	28	10	5	11	2	0
109	EL	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	EN	1	28	10	5	11	2	0
109	EP	1	28	10	5	11	2	0
109	ER	1	28	10	5	11	2	0
109	ET	1	28	10	5	11	2	0
109	EV	1	28	10	5	11	2	0
109	EX	1	28	10	5	11	2	0
109	EZ	1	28	10	5	11	2	0
109	FB	1	28	10	5	11	2	0
109	FD	1	28	10	5	11	2	0
109	FF	1	28	10	5	11	2	0
109	FH	1	28	10	5	11	2	0
109	FJ	1	28	10	5	11	2	0
109	FL	1	28	10	5	11	2	0
109	FN	1	28	10	5	11	2	0
109	FP	1	28	10	5	11	2	0
109	FR	1	28	10	5	11	2	0
109	FT	1	28	10	5	11	2	0
109	FV	1	28	10	5	11	2	0
109	FX	1	28	10	5	11	2	0
109	FZ	1	28	10	5	11	2	0
109	GB	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	GD	1	28	10	5	11	2	0
109	GF	1	28	10	5	11	2	0
109	GH	1	28	10	5	11	2	0
109	GJ	1	28	10	5	11	2	0
109	GL	1	28	10	5	11	2	0
109	GN	1	28	10	5	11	2	0
109	GP	1	28	10	5	11	2	0
109	GR	1	28	10	5	11	2	0
109	GT	1	28	10	5	11	2	0
109	GV	1	28	10	5	11	2	0
109	GX	1	28	10	5	11	2	0
109	GZ	1	28	10	5	11	2	0
109	HB	1	28	10	5	11	2	0
109	HD	1	28	10	5	11	2	0
109	HF	1	28	10	5	11	2	0
109	HH	1	28	10	5	11	2	0
109	HJ	1	28	10	5	11	2	0
109	HL	1	28	10	5	11	2	0
109	HN	1	28	10	5	11	2	0
109	HP	1	28	10	5	11	2	0
109	HR	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	HT	1	28	10	5	11	2	0
109	HV	1	28	10	5	11	2	0
109	HX	1	28	10	5	11	2	0
109	HZ	1	28	10	5	11	2	0
109	IB	1	28	10	5	11	2	0
109	ID	1	28	10	5	11	2	0
109	IF	1	28	10	5	11	2	0
109	IH	1	28	10	5	11	2	0
109	IJ	1	28	10	5	11	2	0
109	IL	1	28	10	5	11	2	0
109	IN	1	28	10	5	11	2	0
109	IP	1	28	10	5	11	2	0
109	IR	1	28	10	5	11	2	0
109	IT	1	28	10	5	11	2	0
109	IV	1	28	10	5	11	2	0
109	IX	1	28	10	5	11	2	0
109	JB	1	28	10	5	11	2	0
109	JD	1	28	10	5	11	2	0
109	JF	1	28	10	5	11	2	0
109	JH	1	28	10	5	11	2	0
109	JJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	JL	1	28	10	5	11	2	0
109	JN	1	28	10	5	11	2	0
109	JP	1	28	10	5	11	2	0
109	JR	1	28	10	5	11	2	0
109	JT	1	28	10	5	11	2	0
109	JV	1	28	10	5	11	2	0
109	JX	1	28	10	5	11	2	0
109	JZ	1	28	10	5	11	2	0
109	KB	1	28	10	5	11	2	0
109	KD	1	28	10	5	11	2	0
109	KF	1	28	10	5	11	2	0
109	KH	1	28	10	5	11	2	0
109	KJ	1	28	10	5	11	2	0
109	KL	1	28	10	5	11	2	0
109	KN	1	28	10	5	11	2	0
109	KP	1	28	10	5	11	2	0
109	KR	1	28	10	5	11	2	0
109	KT	1	28	10	5	11	2	0
109	KV	1	28	10	5	11	2	0
109	KX	1	28	10	5	11	2	0
109	KZ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	LB	1	28	10	5	11	2	0
109	LD	1	28	10	5	11	2	0
109	LF	1	28	10	5	11	2	0
109	LH	1	28	10	5	11	2	0
109	LJ	1	28	10	5	11	2	0
109	LL	1	28	10	5	11	2	0
109	LN	1	28	10	5	11	2	0
109	LP	1	28	10	5	11	2	0
109	LR	1	28	10	5	11	2	0
109	LT	1	28	10	5	11	2	0
109	LV	1	28	10	5	11	2	0
109	LX	1	28	10	5	11	2	0
109	LZ	1	28	10	5	11	2	0
109	MD	1	28	10	5	11	2	0
109	MF	1	28	10	5	11	2	0
109	MH	1	28	10	5	11	2	0
109	MJ	1	28	10	5	11	2	0
109	ML	1	28	10	5	11	2	0
109	MN	1	28	10	5	11	2	0
109	MP	1	28	10	5	11	2	0
109	MR	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	MT	1	28	10	5	11	2	0
109	MV	1	28	10	5	11	2	0
109	MX	1	28	10	5	11	2	0
109	MZ	1	28	10	5	11	2	0
109	NB	1	28	10	5	11	2	0
109	ND	1	28	10	5	11	2	0
109	NF	1	28	10	5	11	2	0
109	NH	1	28	10	5	11	2	0
109	NJ	1	28	10	5	11	2	0
109	NL	1	28	10	5	11	2	0
109	NN	1	28	10	5	11	2	0
109	NP	1	28	10	5	11	2	0
109	NR	1	28	10	5	11	2	0
109	NT	1	28	10	5	11	2	0
109	NV	1	28	10	5	11	2	0
109	NX	1	28	10	5	11	2	0
109	NZ	1	28	10	5	11	2	0
109	OB	1	28	10	5	11	2	0
109	OD	1	28	10	5	11	2	0
109	OF	1	28	10	5	11	2	0
109	OH	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	OJ	1	28	10	5	11	2	0
109	OL	1	28	10	5	11	2	0
109	ON	1	28	10	5	11	2	0
109	OP	1	28	10	5	11	2	0
109	OR	1	28	10	5	11	2	0
109	OT	1	28	10	5	11	2	0
109	OV	1	28	10	5	11	2	0
109	OX	1	28	10	5	11	2	0
109	PB	1	28	10	5	11	2	0
109	PD	1	28	10	5	11	2	0
109	PF	1	28	10	5	11	2	0
109	PH	1	28	10	5	11	2	0
109	PJ	1	28	10	5	11	2	0
109	PL	1	28	10	5	11	2	0
109	PN	1	28	10	5	11	2	0
109	PP	1	28	10	5	11	2	0
109	PR	1	28	10	5	11	2	0
109	PT	1	28	10	5	11	2	0
109	PV	1	28	10	5	11	2	0
109	PX	1	28	10	5	11	2	0
109	QB	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	QD	1	28	10	5	11	2	0
109	QF	1	28	10	5	11	2	0
109	QH	1	28	10	5	11	2	0
109	QJ	1	28	10	5	11	2	0
109	QL	1	28	10	5	11	2	0
109	QN	1	28	10	5	11	2	0
109	QP	1	28	10	5	11	2	0
109	QR	1	28	10	5	11	2	0
109	QT	1	28	10	5	11	2	0
109	QV	1	28	10	5	11	2	0
109	QX	1	28	10	5	11	2	0
109	RB	1	28	10	5	11	2	0
109	RD	1	28	10	5	11	2	0
109	RF	1	28	10	5	11	2	0
109	RH	1	28	10	5	11	2	0
109	RJ	1	28	10	5	11	2	0
109	RL	1	28	10	5	11	2	0
109	RN	1	28	10	5	11	2	0
109	RP	1	28	10	5	11	2	0
109	RR	1	28	10	5	11	2	0
109	RT	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	RV	1	28	10	5	11	2	0
109	RX	1	28	10	5	11	2	0
109	SB	1	28	10	5	11	2	0
109	SD	1	28	10	5	11	2	0
109	SF	1	28	10	5	11	2	0
109	SH	1	28	10	5	11	2	0
109	SJ	1	28	10	5	11	2	0
109	SL	1	28	10	5	11	2	0
109	SN	1	28	10	5	11	2	0
109	SP	1	28	10	5	11	2	0
109	SR	1	28	10	5	11	2	0
109	ST	1	28	10	5	11	2	0
109	SV	1	28	10	5	11	2	0
109	SX	1	28	10	5	11	2	0
109	TB	1	28	10	5	11	2	0
109	TD	1	28	10	5	11	2	0
109	TF	1	28	10	5	11	2	0
109	TH	1	28	10	5	11	2	0
109	TJ	1	28	10	5	11	2	0
109	TL	1	28	10	5	11	2	0
109	TN	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	TP	1	28	10	5	11	2	0
109	TR	1	28	10	5	11	2	0
109	TT	1	28	10	5	11	2	0
109	TV	1	28	10	5	11	2	0
109	TX	1	28	10	5	11	2	0
109	TZ	1	28	10	5	11	2	0
109	UB	1	28	10	5	11	2	0
109	UD	1	28	10	5	11	2	0
109	UF	1	28	10	5	11	2	0
109	UH	1	28	10	5	11	2	0
109	UJ	1	28	10	5	11	2	0
109	UL	1	28	10	5	11	2	0
109	UN	1	28	10	5	11	2	0
109	UP	1	28	10	5	11	2	0
109	UR	1	28	10	5	11	2	0
109	UT	1	28	10	5	11	2	0
109	UV	1	28	10	5	11	2	0
109	UX	1	28	10	5	11	2	0
109	UZ	1	28	10	5	11	2	0
109	VB	1	28	10	5	11	2	0
109	VD	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	VF	1	28	10	5	11	2	0
109	VH	1	28	10	5	11	2	0
109	VJ	1	28	10	5	11	2	0
109	VL	1	28	10	5	11	2	0
109	VN	1	28	10	5	11	2	0
109	VP	1	28	10	5	11	2	0
109	VR	1	28	10	5	11	2	0
109	VT	1	28	10	5	11	2	0
109	VV	1	28	10	5	11	2	0
109	VX	1	28	10	5	11	2	0
109	VZ	1	28	10	5	11	2	0
109	WB	1	28	10	5	11	2	0
109	WD	1	28	10	5	11	2	0
109	WF	1	28	10	5	11	2	0
109	WH	1	28	10	5	11	2	0
109	WJ	1	28	10	5	11	2	0
109	WL	1	28	10	5	11	2	0
109	WN	1	28	10	5	11	2	0
109	WP	1	28	10	5	11	2	0
109	WR	1	28	10	5	11	2	0
109	WT	1	28	10	5	11	2	0

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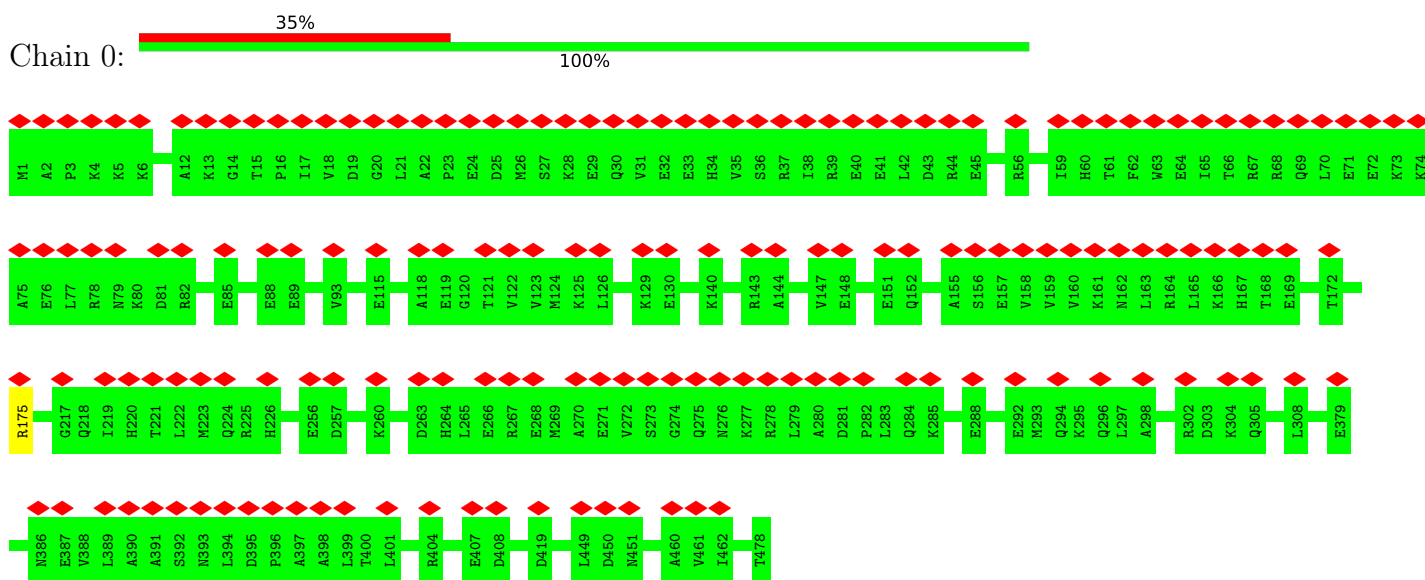
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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
109	WV	1	28	10	5	11	2	0
109	WX	1	28	10	5	11	2	0

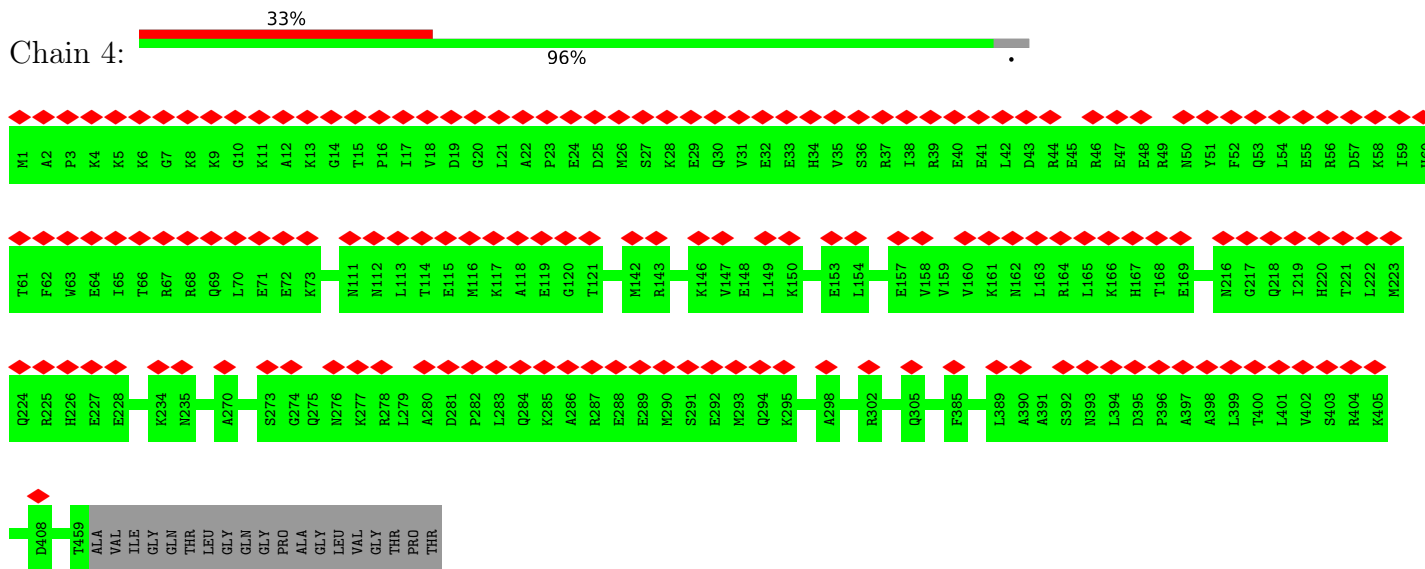
3 Residue-property plots [i](#)

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.

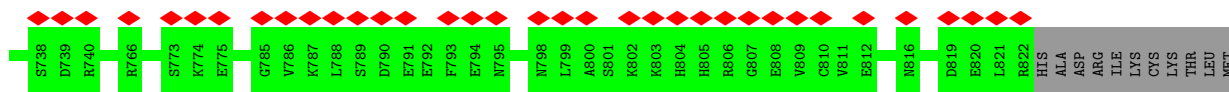
- Molecule 1: Dynein regulatory complex subunit 4



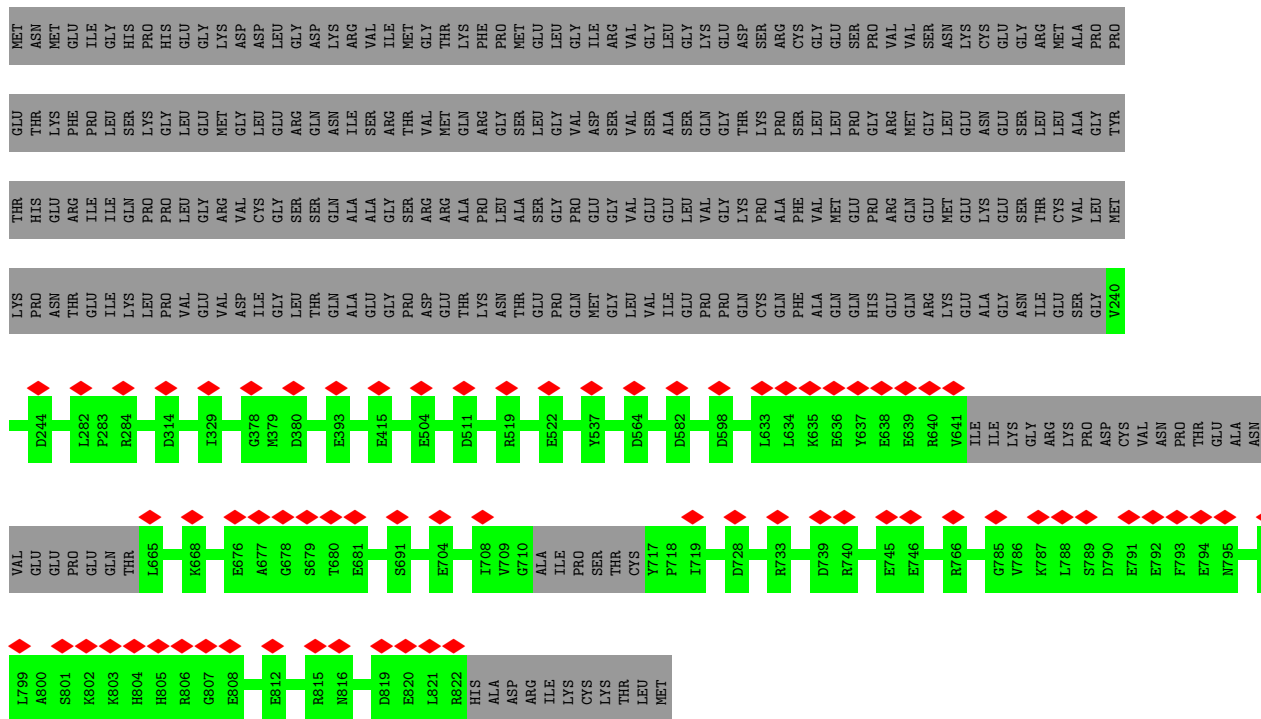
- Molecule 1: Dynein regulatory complex subunit 4



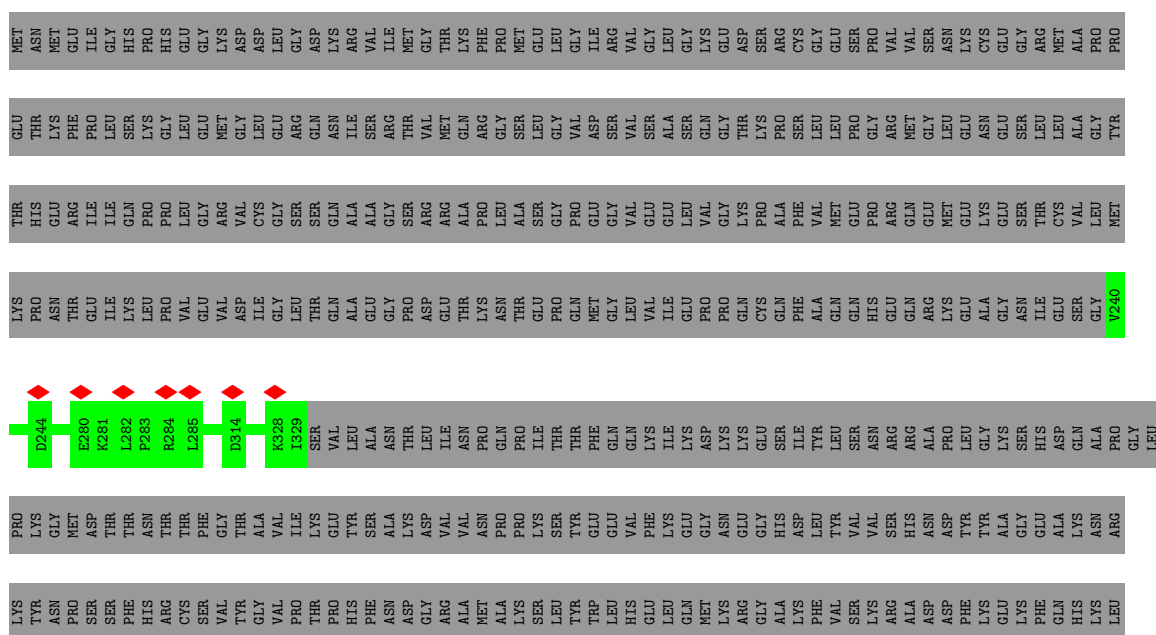
- Molecule 2: Dynein regulatory complex protein 1

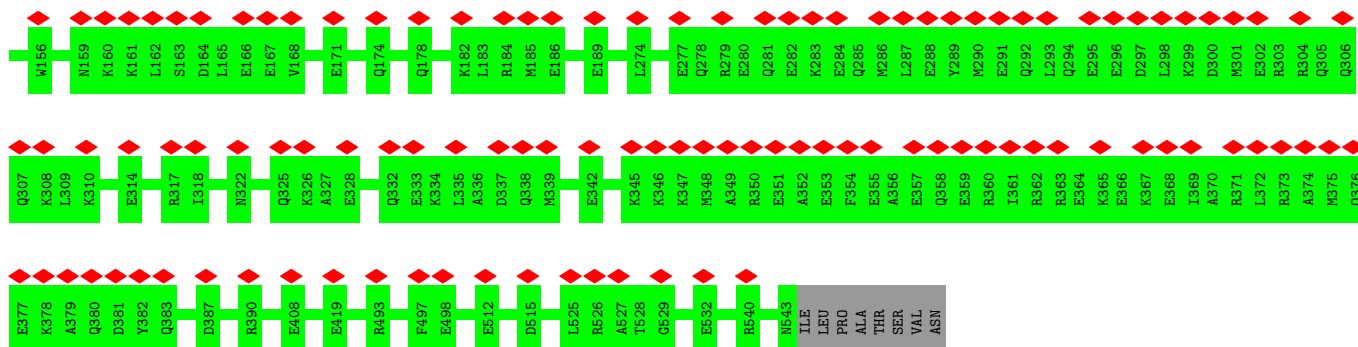


• Molecule 6: EF-hand domain-containing family member B

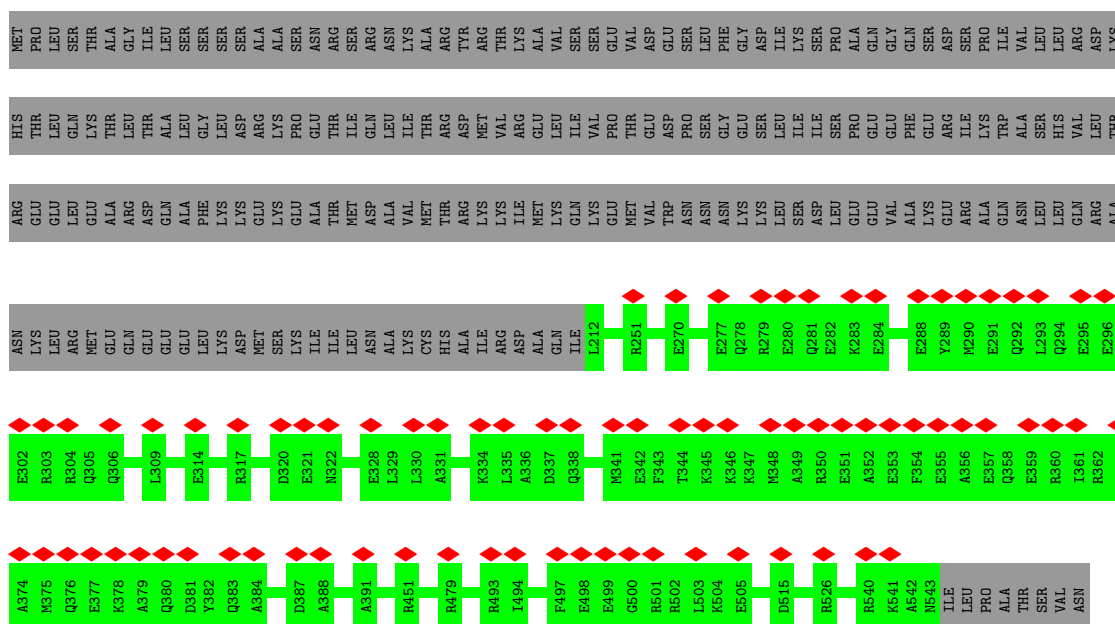


• Molecule 6: EF-hand domain-containing family member B

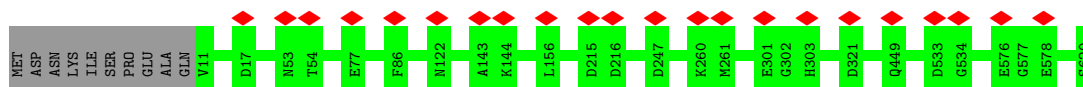




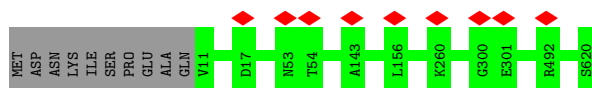
• Molecule 7: Cilia- and flagella-associated protein 45



• Molecule 8: Cilia- and flagella-associated protein 52



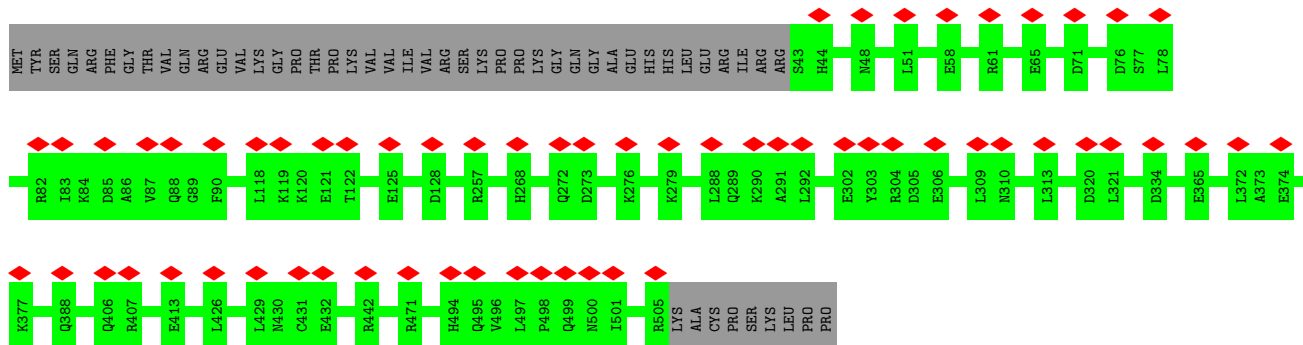
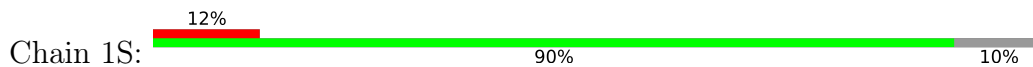
• Molecule 8: Cilia- and flagella-associated protein 52



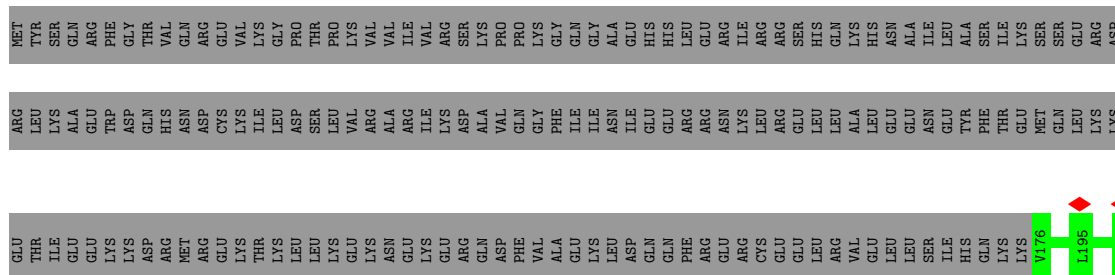
• Molecule 8: Cilia- and flagella-associated protein 52

GLN
ASN
ILE
HIS
PRO
MET
ARG
LYS
ALA
CYS
PRO
SER
LYS
LEU
PRO
PRO

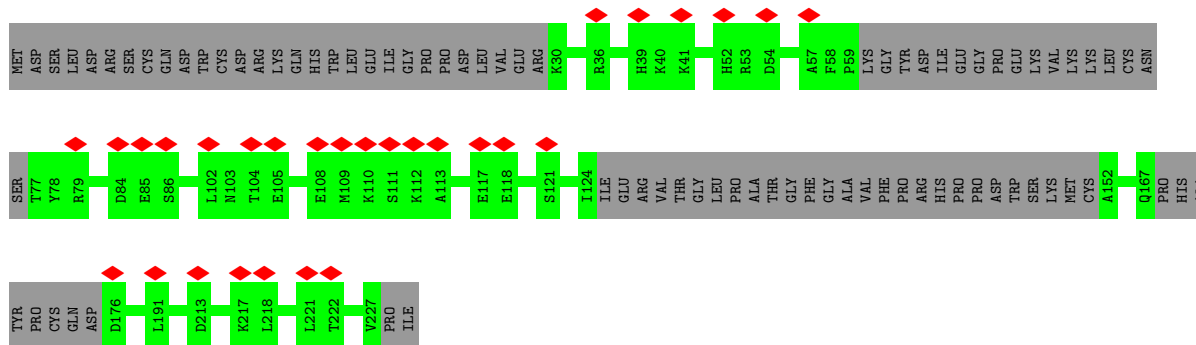
• Molecule 9: Cilia- and flagella-associated protein 53



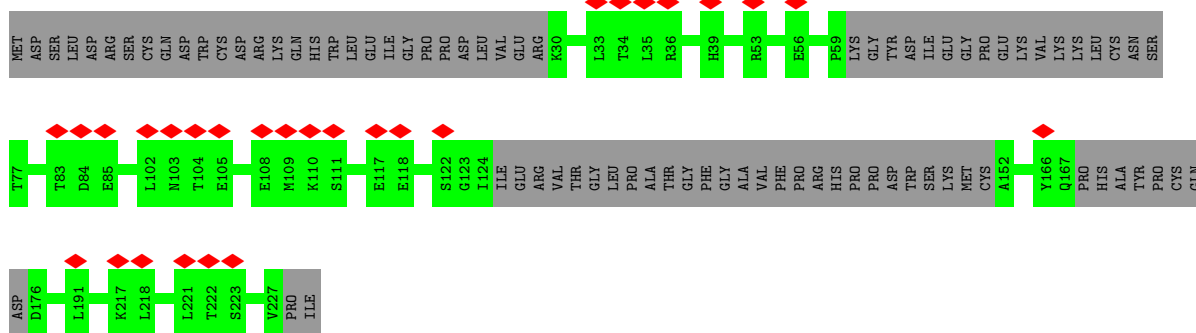
• Molecule 9: Cilia- and flagella-associated protein 53



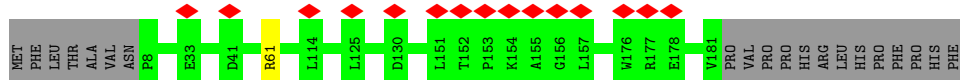
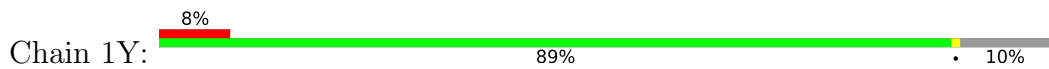
• Molecule 10: Cilia- and flagella-associated protein 95



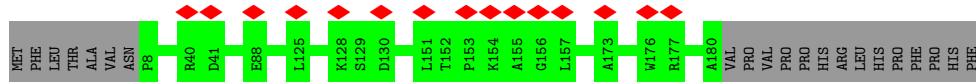
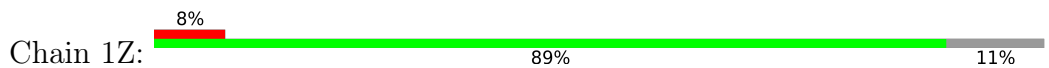
• Molecule 10: Cilia- and flagella-associated protein 95



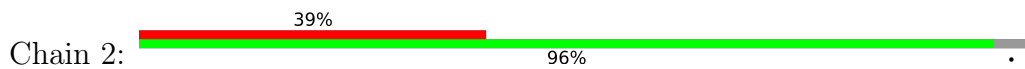
- Molecule 11: Cilia- and flagella-associated protein 107



- Molecule 11: Cilia- and flagella-associated protein 107

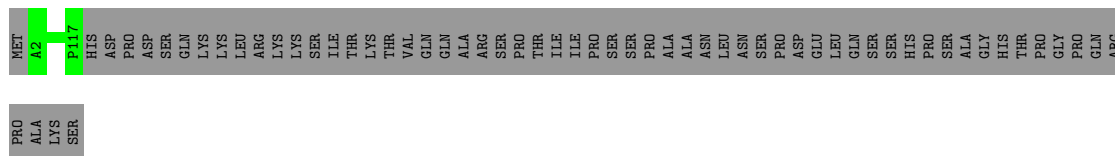


- Molecule 12: Dynein regulatory complex subunit 2



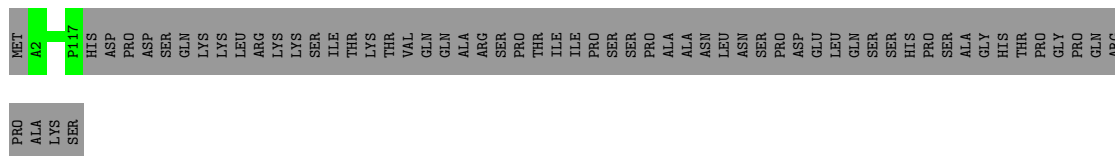
- Molecule 13: Protein Flattop

Chain 2A:  66% 34%



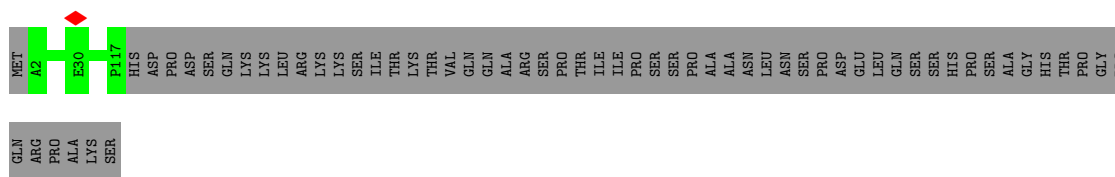
• Molecule 13: Protein Flattop

Chain 2B:  66% 34%



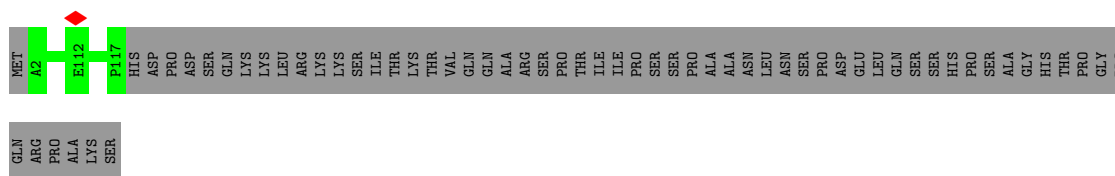
• Molecule 13: Protein Flattop

Chain 2C:  66% 34%



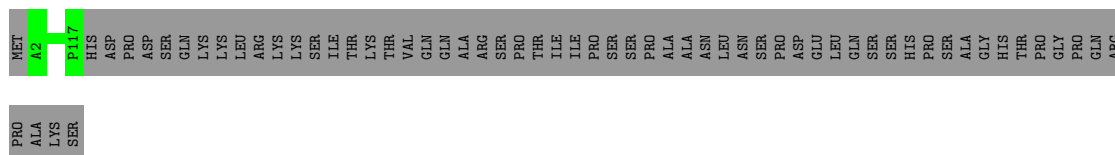
• Molecule 13: Protein Flattop

Chain 2D:  66% 34%



• Molecule 13: Protein Flattop

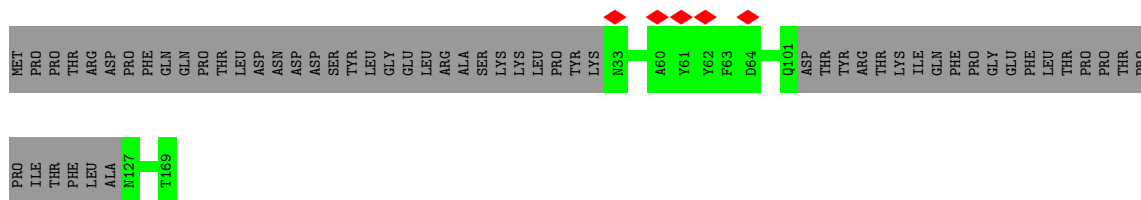
Chain 2E:  66% 34%



• Molecule 13: Protein Flattop

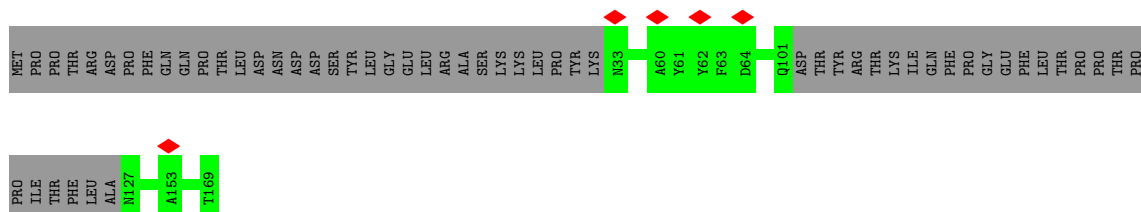
Chain 2F:  66% 34%

Chain 2W:  66% 34%



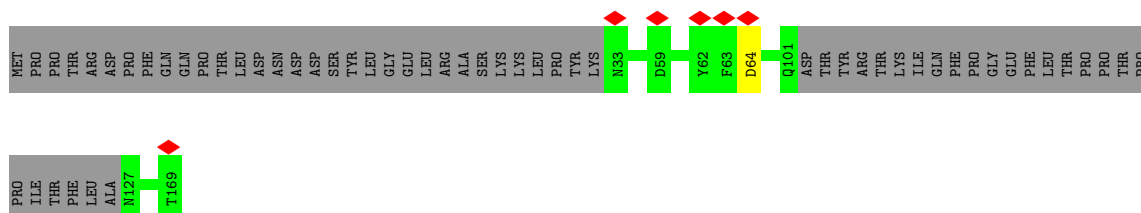
• Molecule 17: Cilia- and flagella-associated protein 276

Chain 2X:  66% 34%



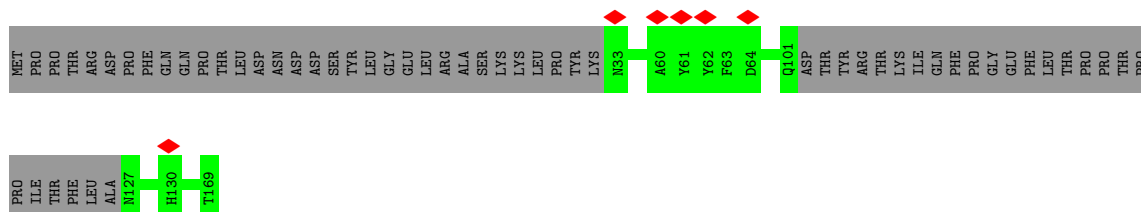
• Molecule 17: Cilia- and flagella-associated protein 276

Chain 2Y:  66% 34%



• Molecule 17: Cilia- and flagella-associated protein 276

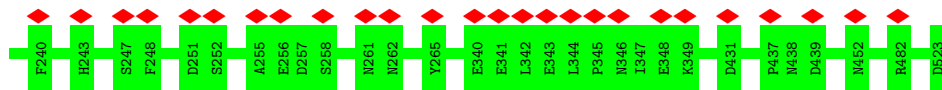
Chain 2Z:  66% 34%



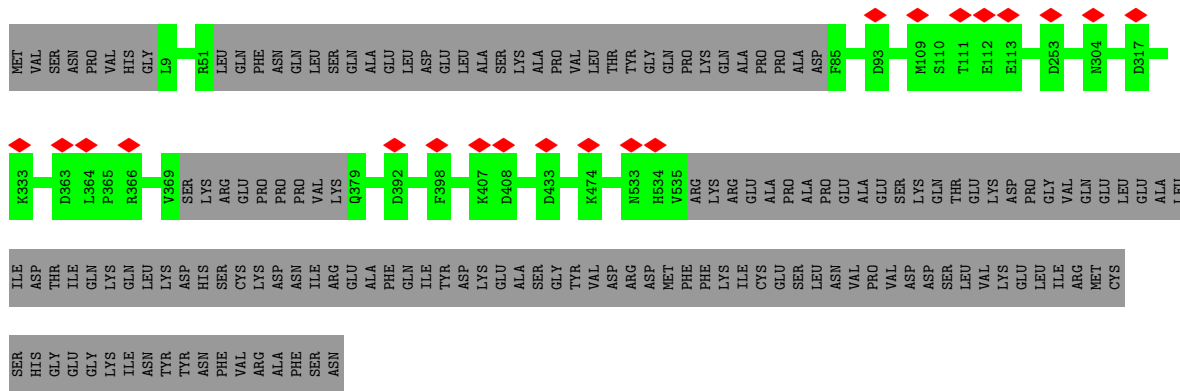
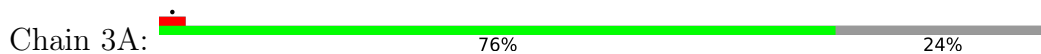
• Molecule 18: Dynein regulatory complex subunit 3

Chain 3:  12% 99%

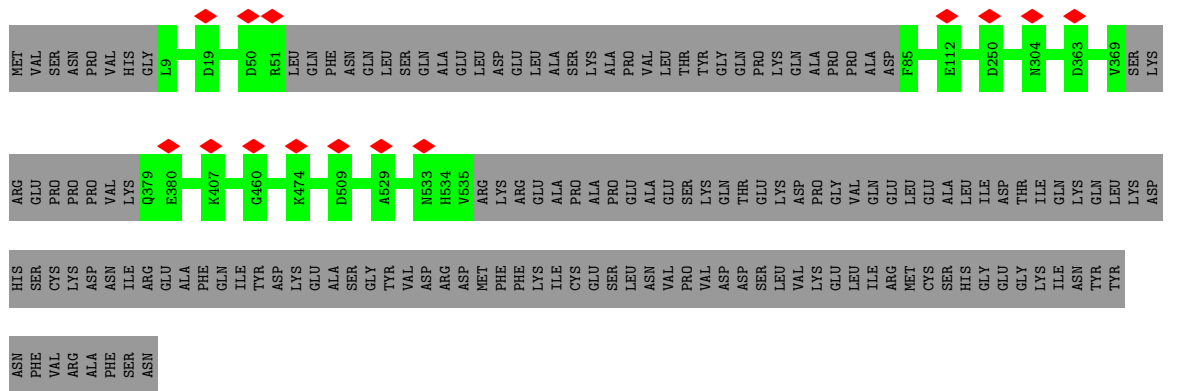
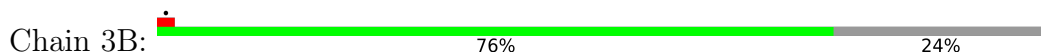




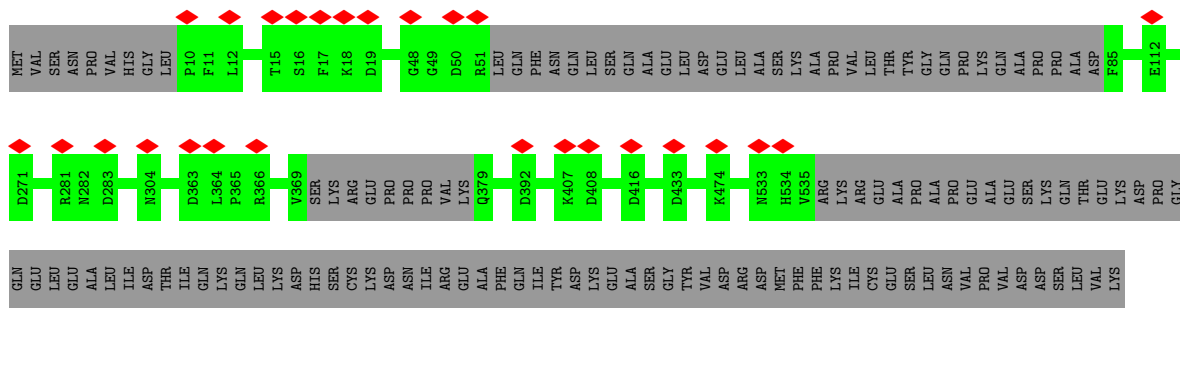
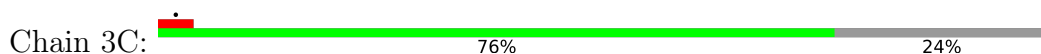
• Molecule 19: EF-hand domain-containing protein 1



• Molecule 19: EF-hand domain-containing protein 1

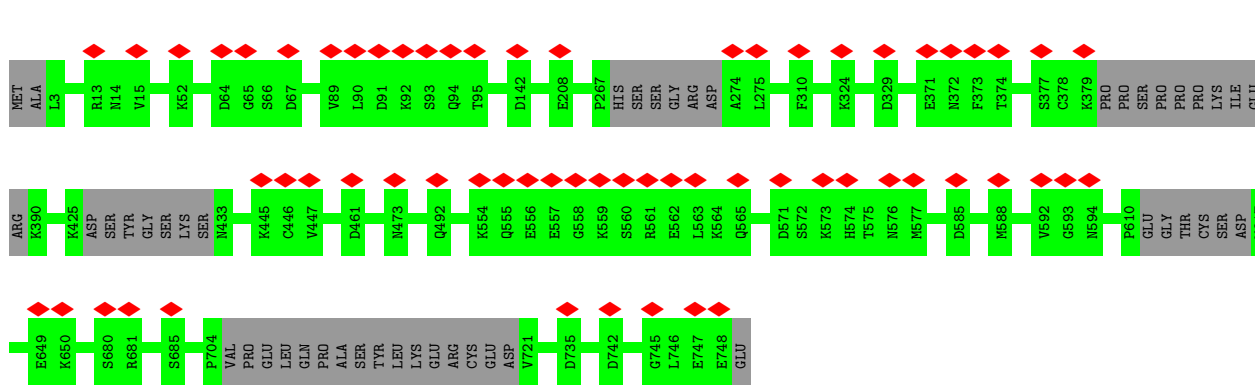


• Molecule 19: EF-hand domain-containing protein 1

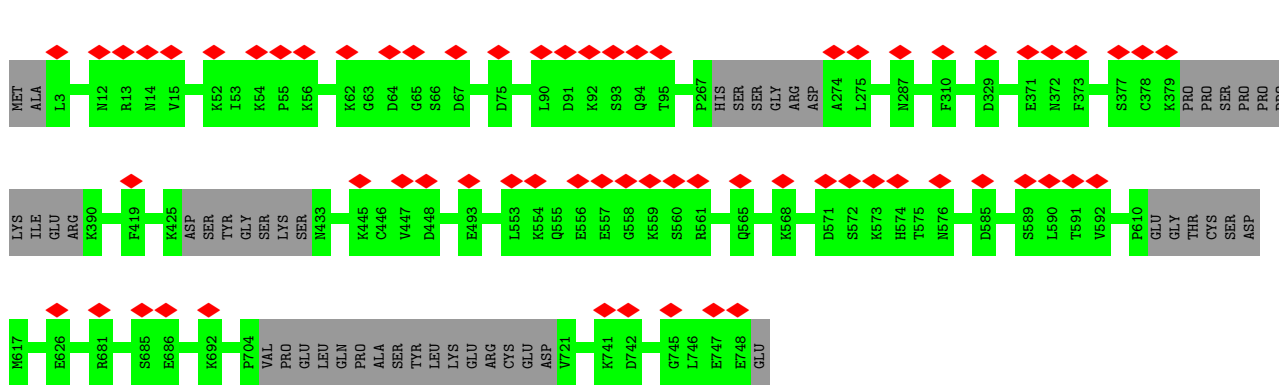




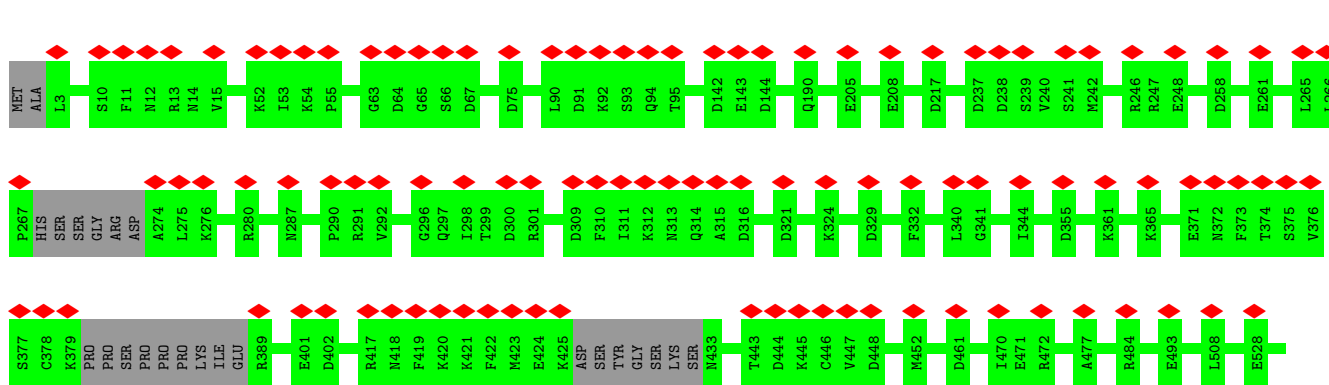
• Molecule 20: EF-hand domain-containing family member C2

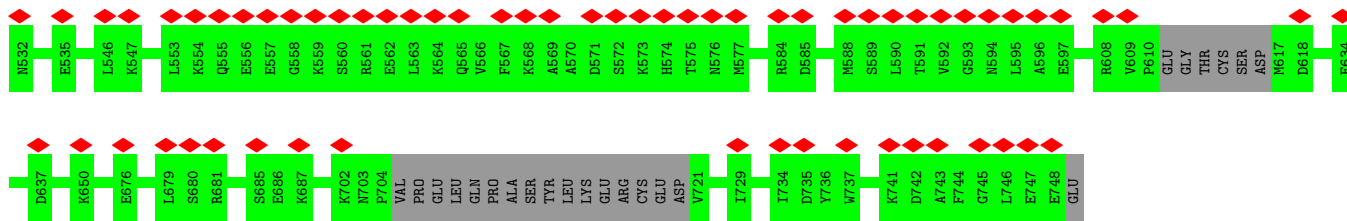


• Molecule 20: EF-hand domain-containing family member C2

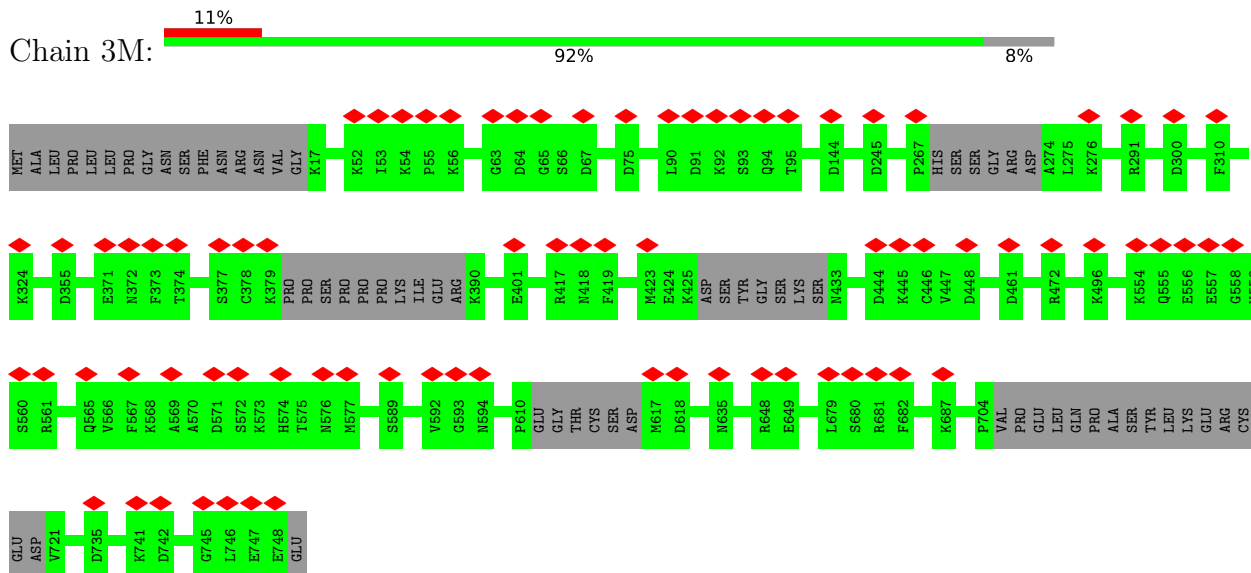


• Molecule 20: EF-hand domain-containing family member C2

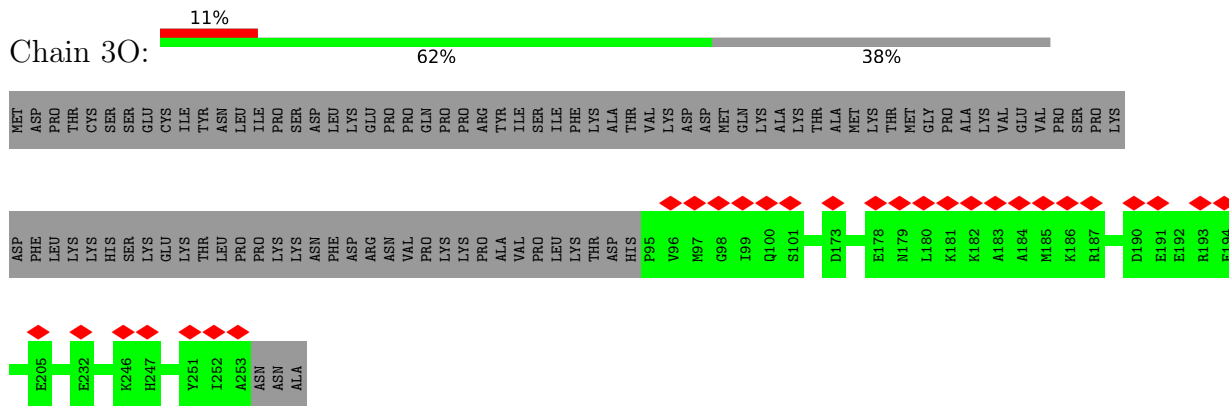




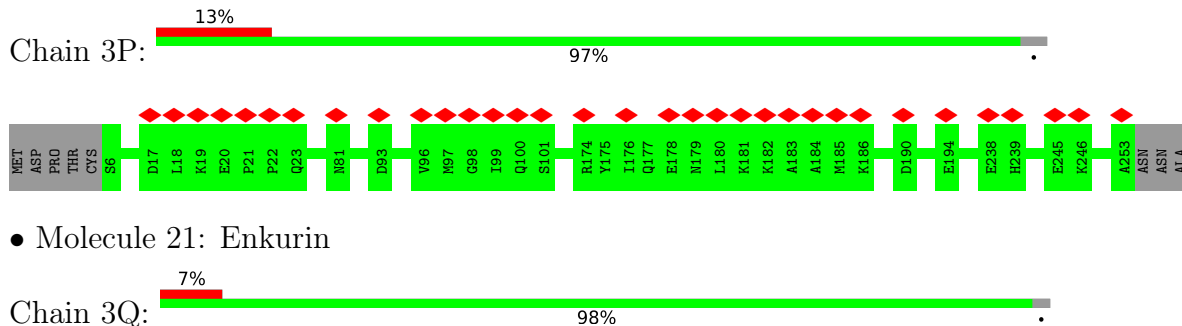
• Molecule 20: EF-hand domain-containing family member C2

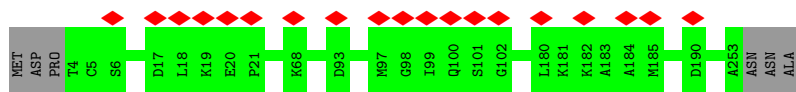


• Molecule 21: Enkurin

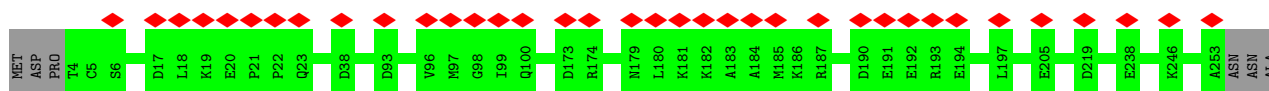


• Molecule 21: Enkurin

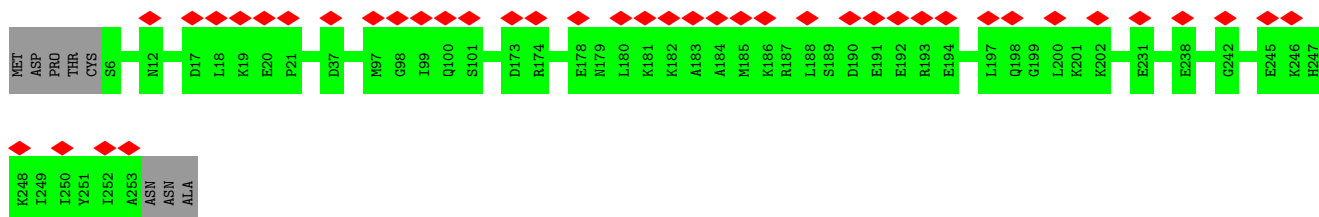




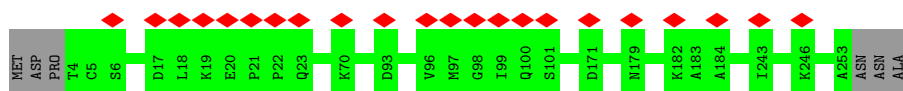
• Molecule 21: Enkurin



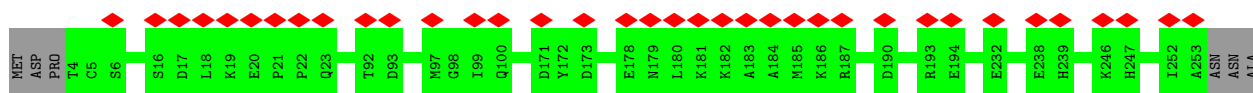
• Molecule 21: Enkurin



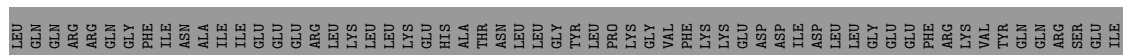
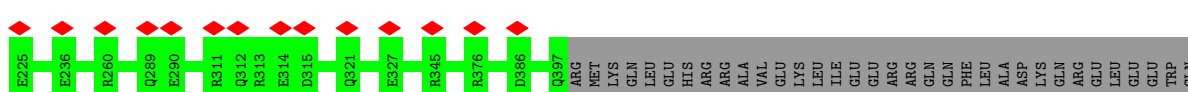
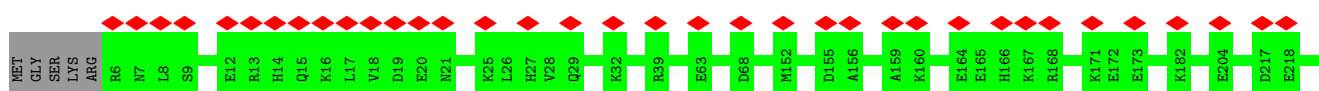
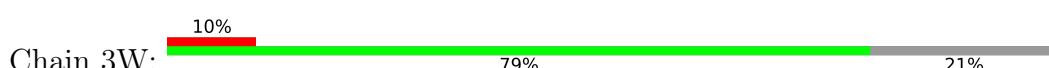
• Molecule 21: Enkurin

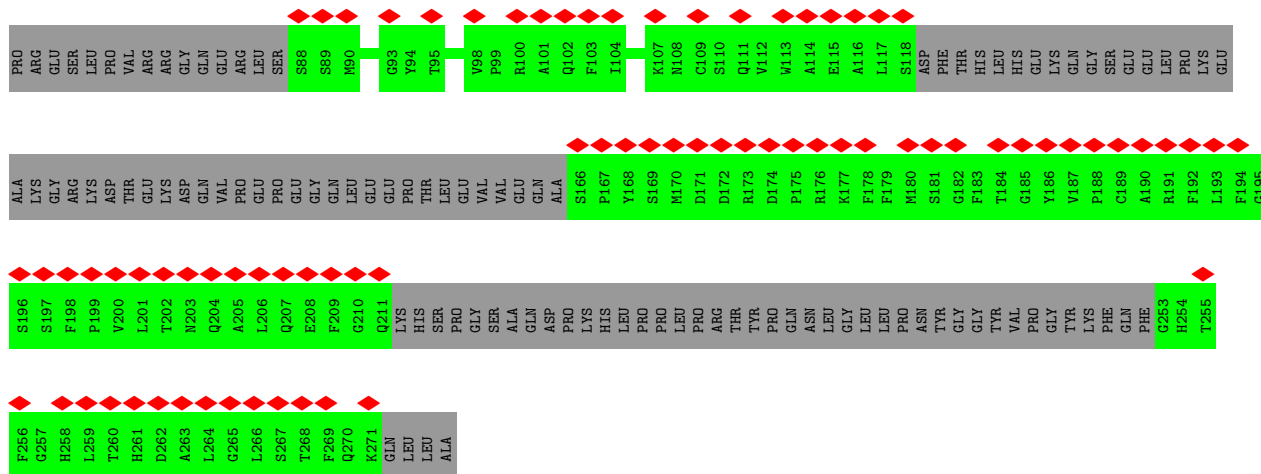


• Molecule 21: Enkurin

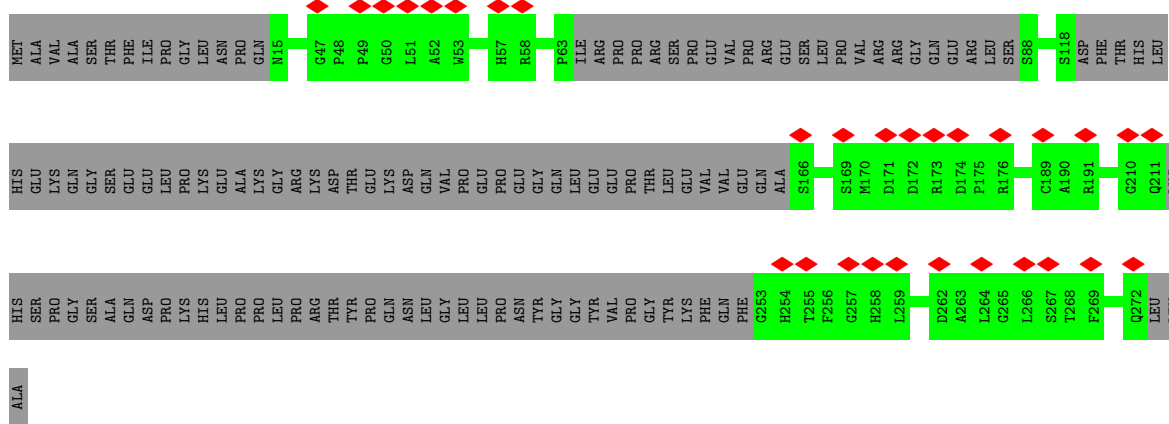


• Molecule 22: Meiosis-specific nuclear structural protein 1

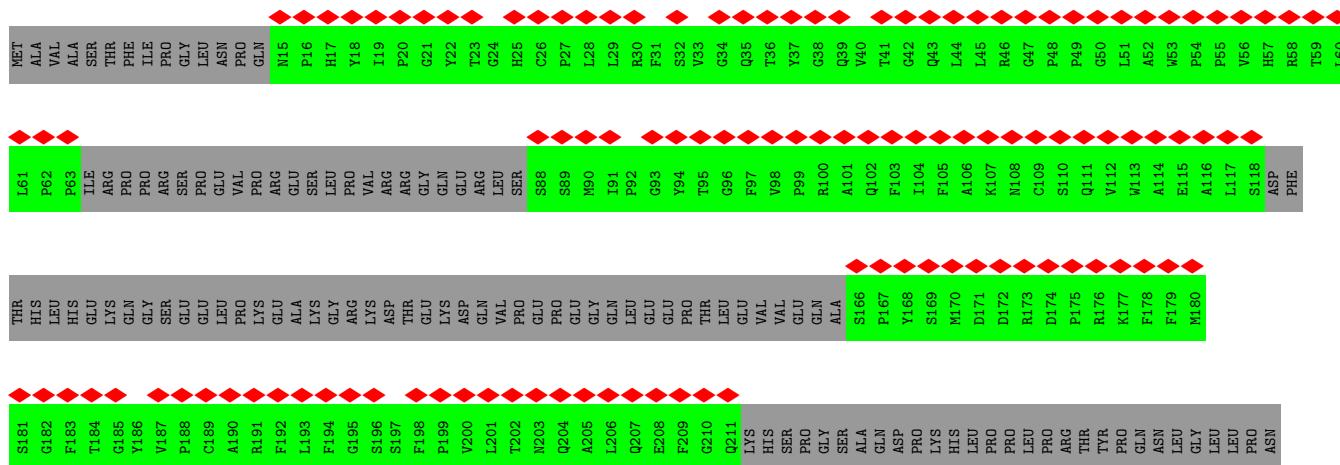


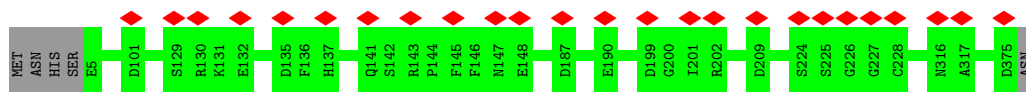


• Molecule 23: Protein FAM166B

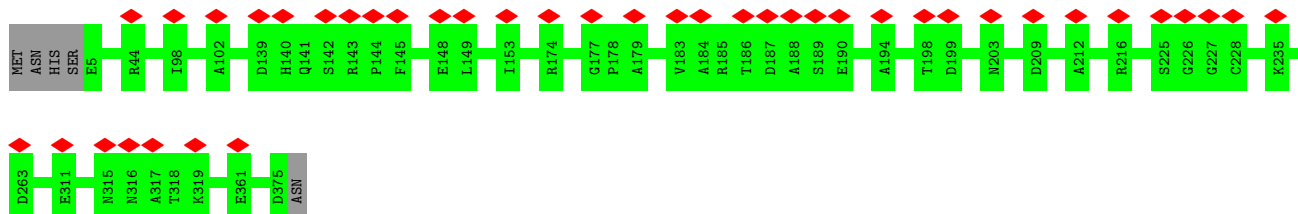


• Molecule 23: Protein FAM166B

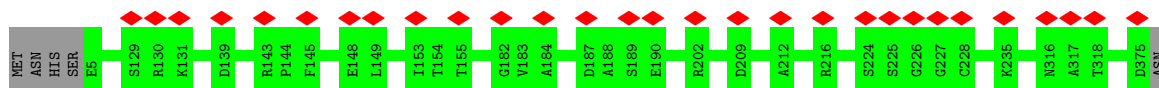




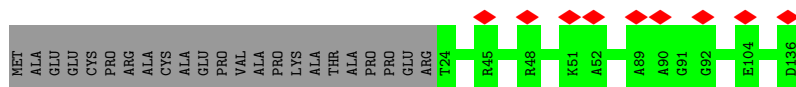
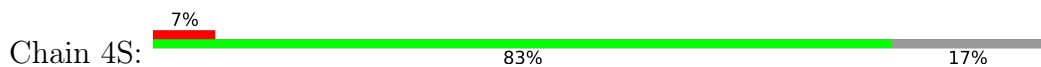
- Molecule 24: Nucleoside diphosphate kinase 7



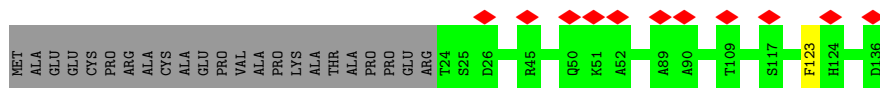
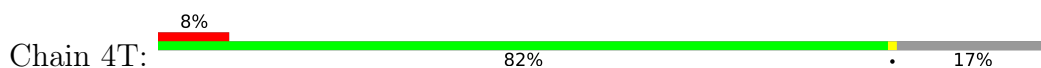
- Molecule 24: Nucleoside diphosphate kinase 7



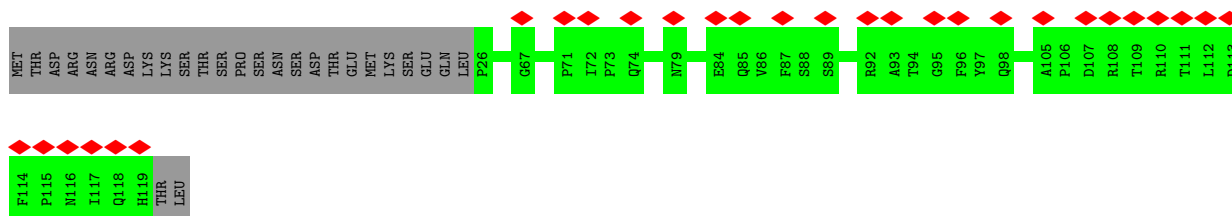
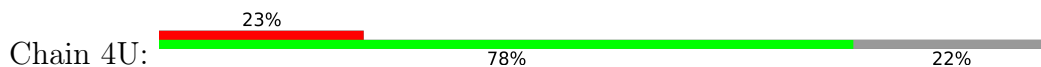
- Molecule 25: Piercer of microtubule wall 1 protein



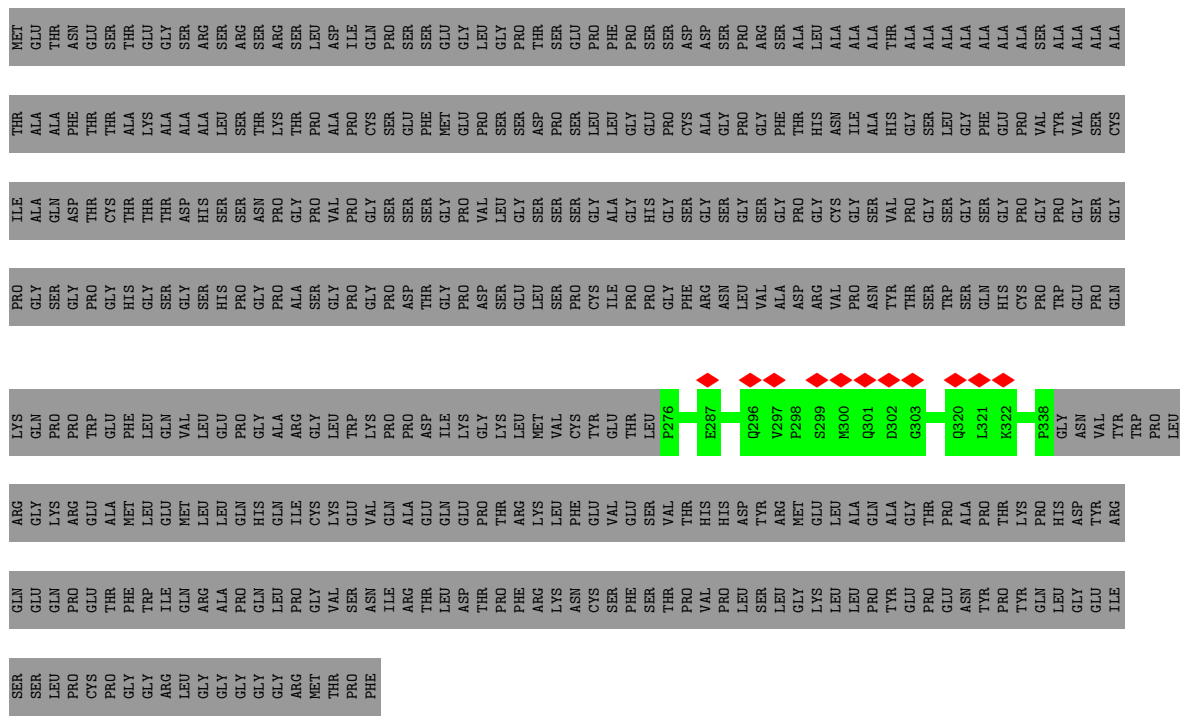
- Molecule 25: Piercer of microtubule wall 1 protein



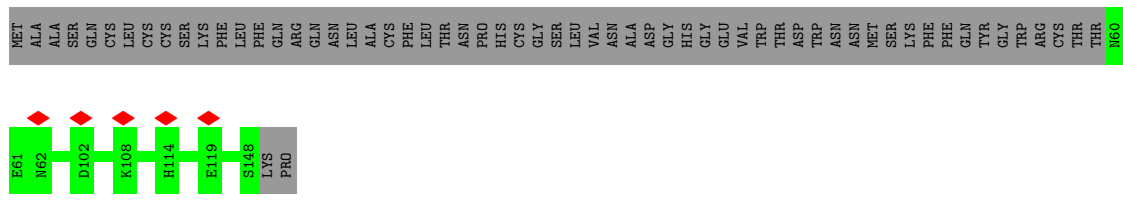
- Molecule 26: Piercer of microtubule wall 2 protein



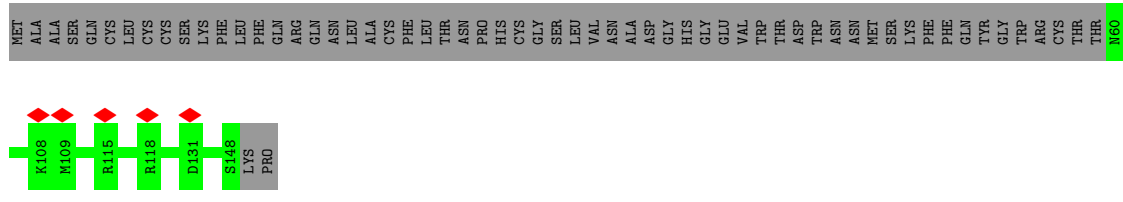
- Molecule 26: Piercer of microtubule wall 2 protein



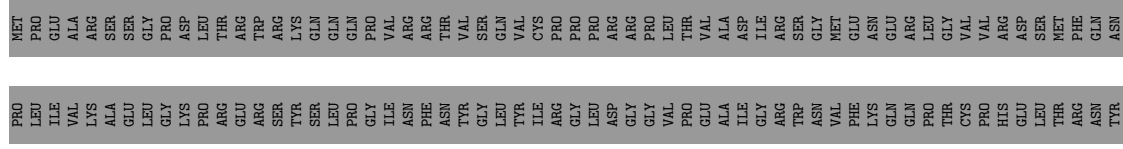
• Molecule 31: Uncharacterized protein CFAP68

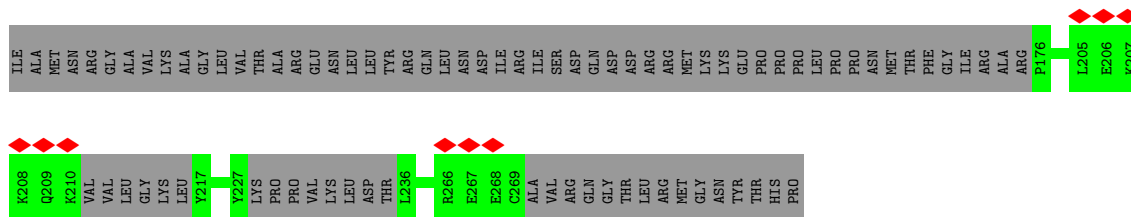


• Molecule 31: Uncharacterized protein CFAP68

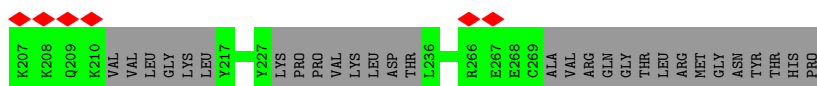
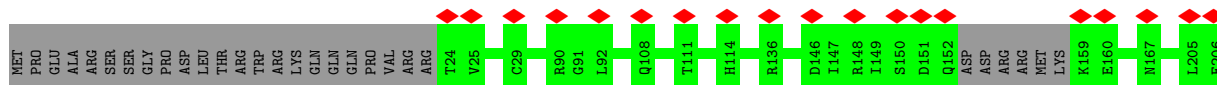
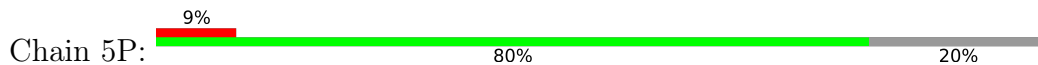


• Molecule 32: Cilia- and flagella-associated protein 77

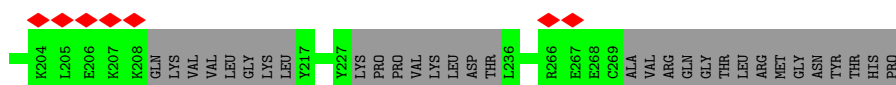
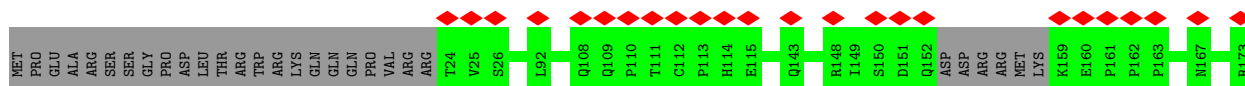
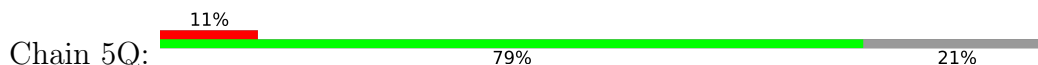




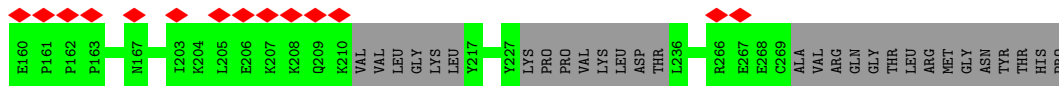
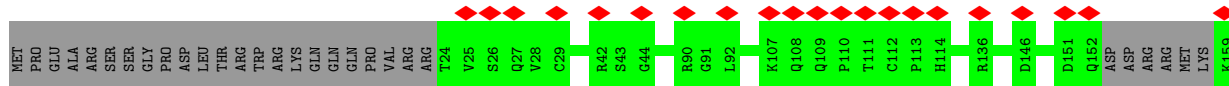
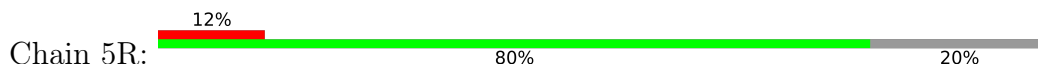
• Molecule 32: Cilia- and flagella-associated protein 77



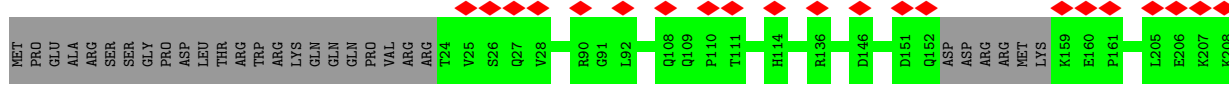
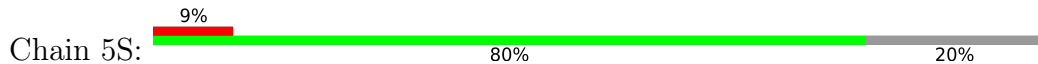
• Molecule 32: Cilia- and flagella-associated protein 77

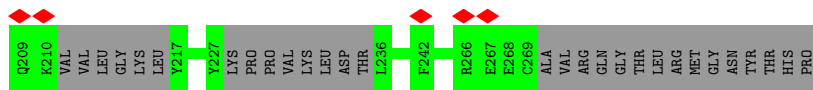


• Molecule 32: Cilia- and flagella-associated protein 77

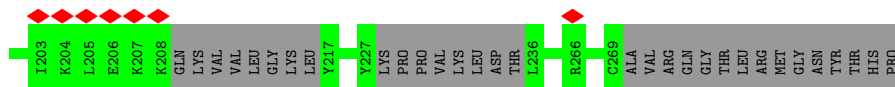
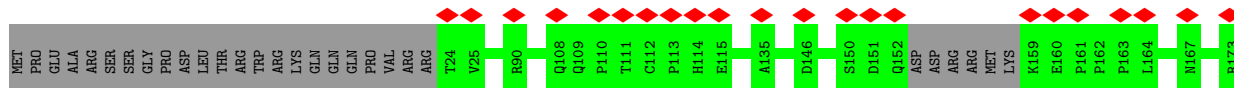
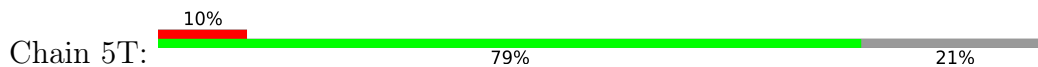


• Molecule 32: Cilia- and flagella-associated protein 77

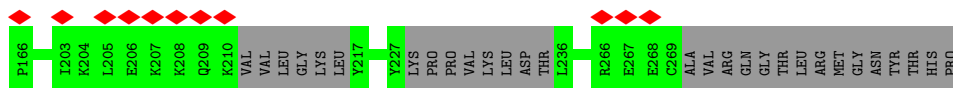
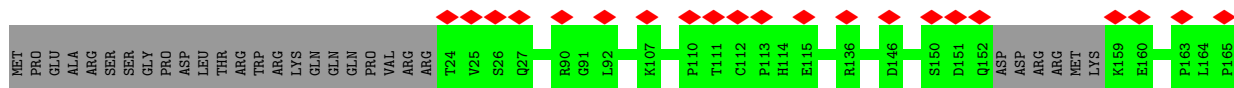
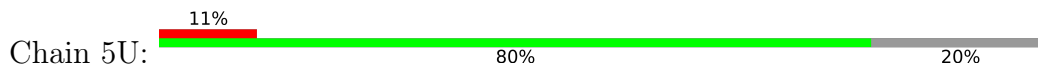




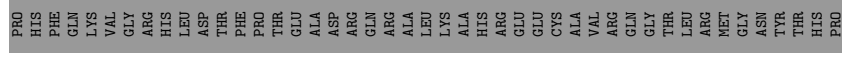
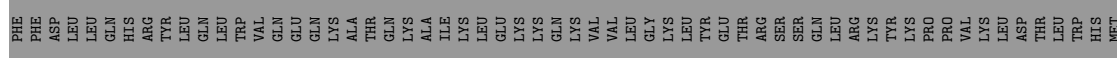
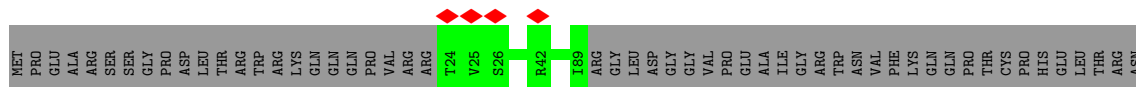
• Molecule 32: Cilia- and flagella-associated protein 77



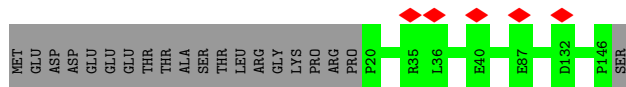
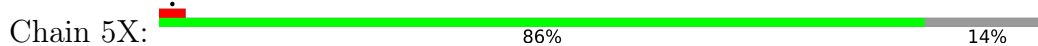
• Molecule 32: Cilia- and flagella-associated protein 77



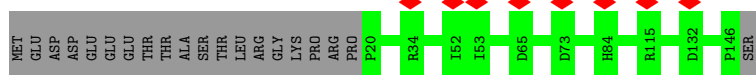
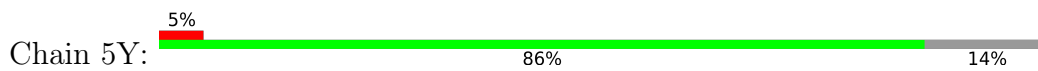
• Molecule 32: Cilia- and flagella-associated protein 77



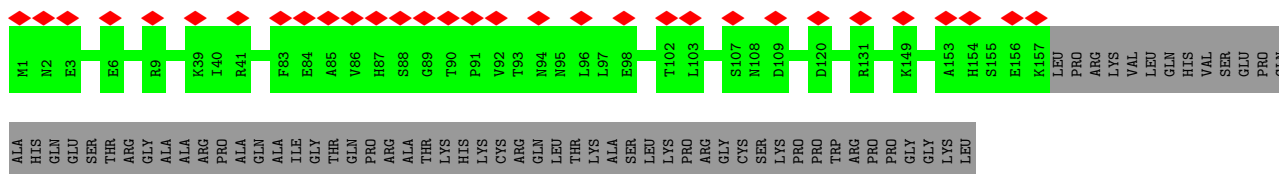
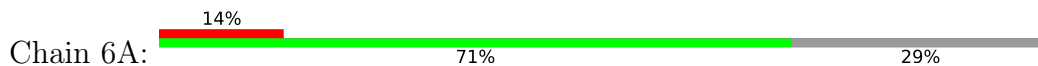
• Molecule 33: Uncharacterized protein CFAP90



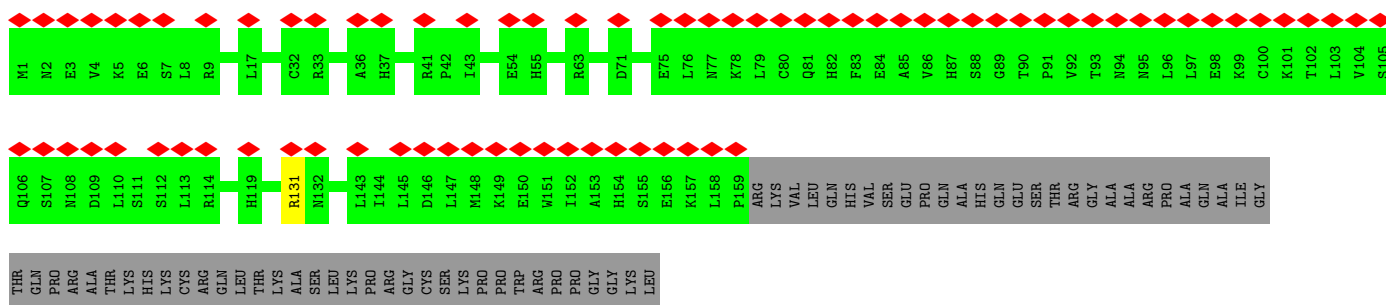
• Molecule 33: Uncharacterized protein CFAP90



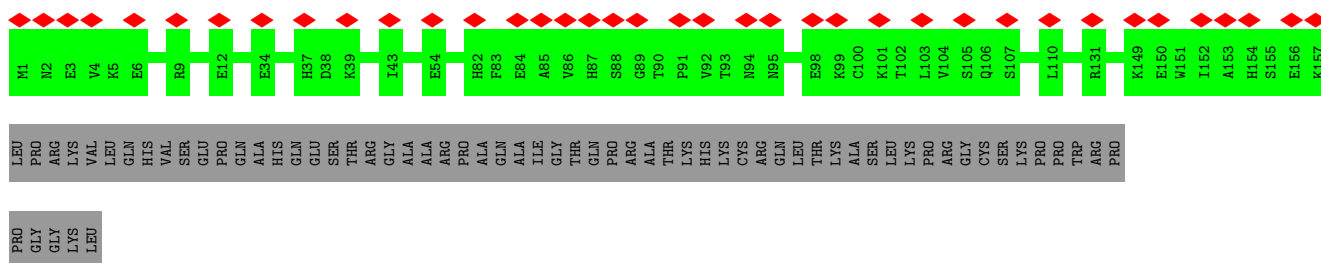
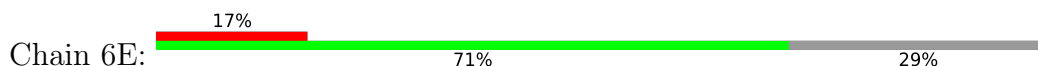
• Molecule 34: Sperm acrosome-associated protein 9



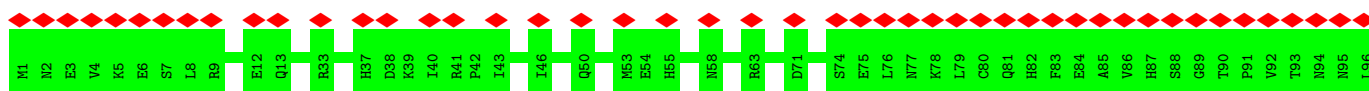
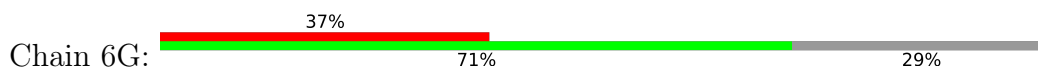
• Molecule 34: Sperm acrosome-associated protein 9

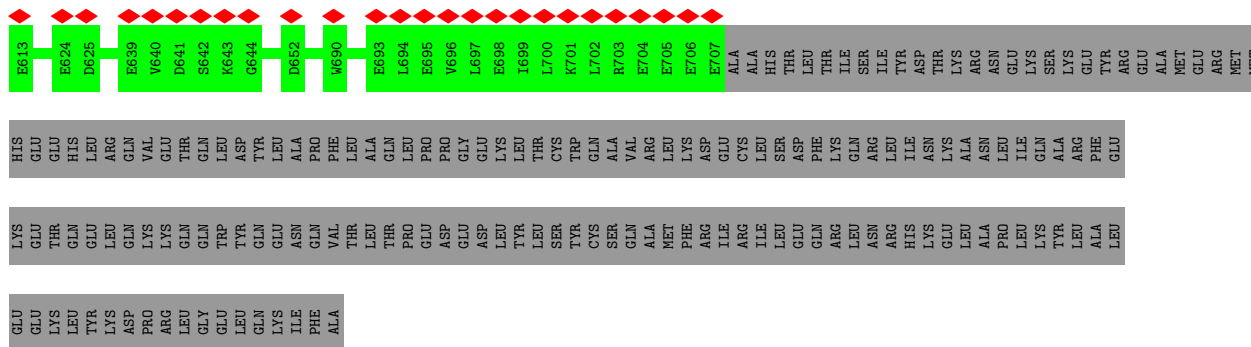


• Molecule 34: Sperm acrosome-associated protein 9

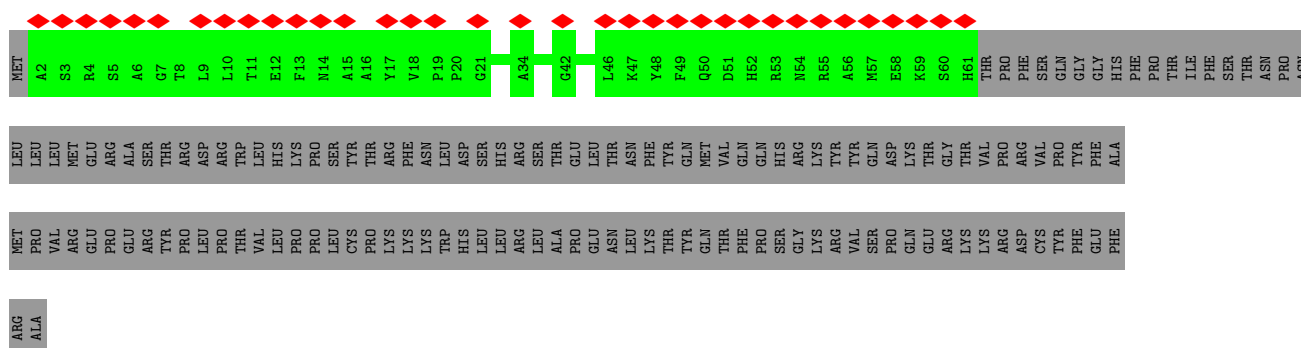


• Molecule 34: Sperm acrosome-associated protein 9

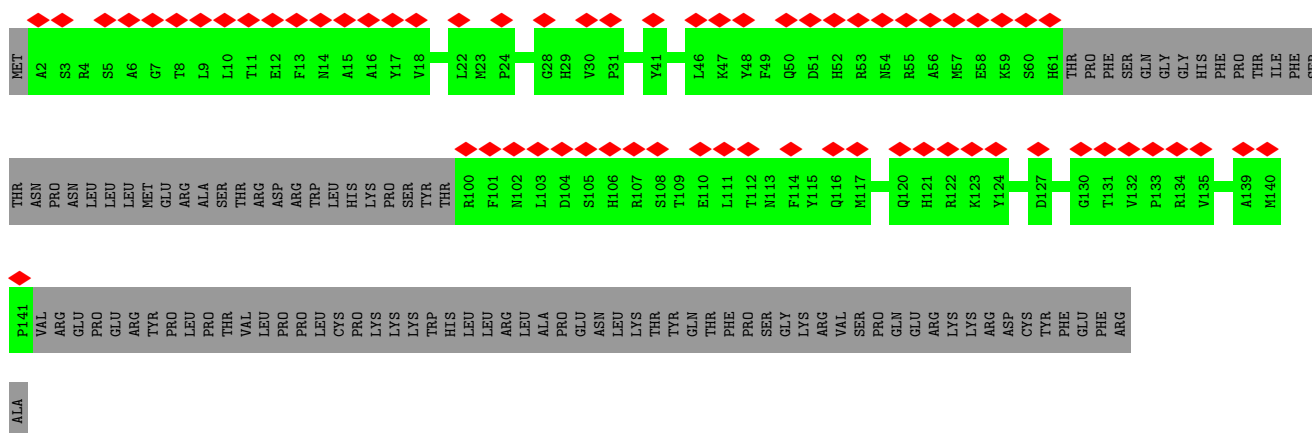




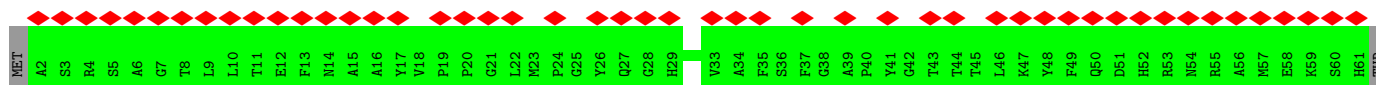
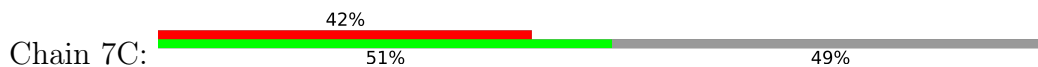
• Molecule 36: Protein FAM166C

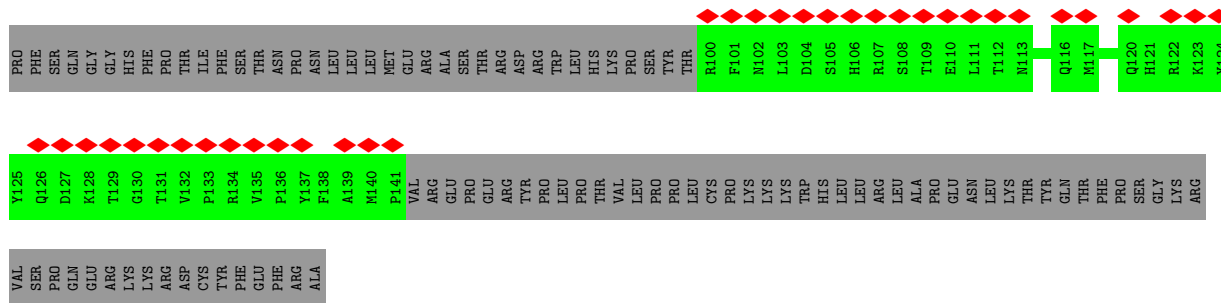


• Molecule 36: Protein FAM166C

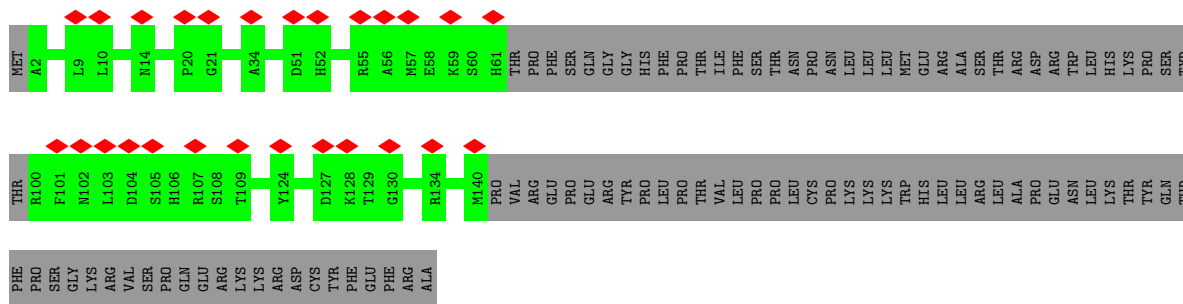


• Molecule 36: Protein FAM166C

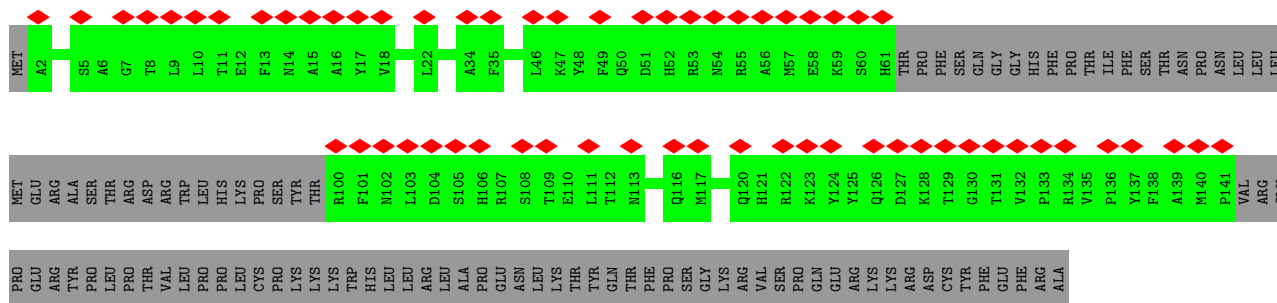




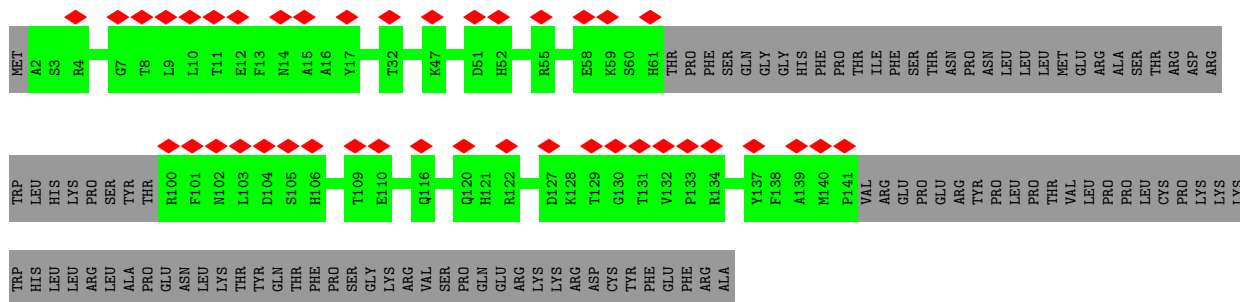
• Molecule 36: Protein FAM166C



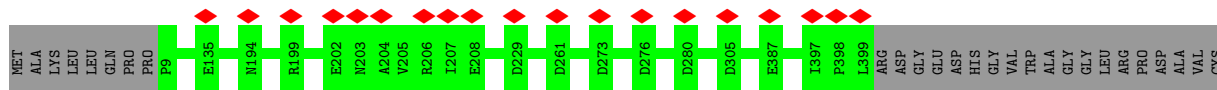
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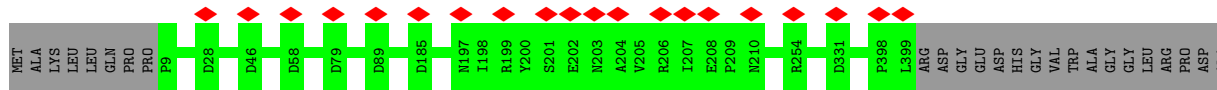
• Molecule 36: Protein FAM166C



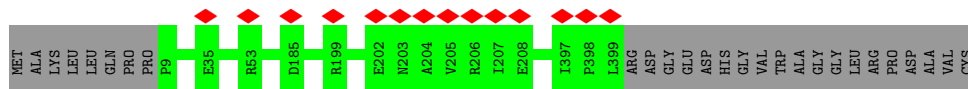
• Molecule 38: Tektin-1



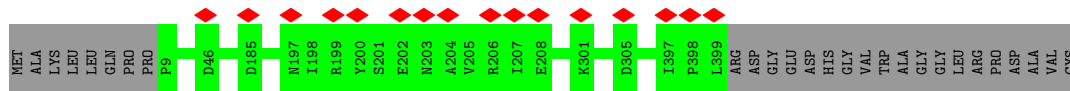
• Molecule 38: Tektin-1



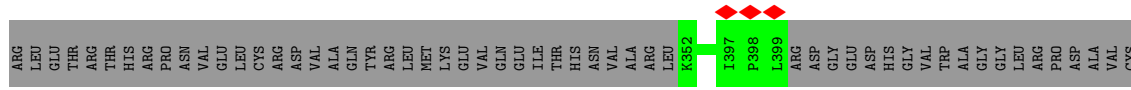
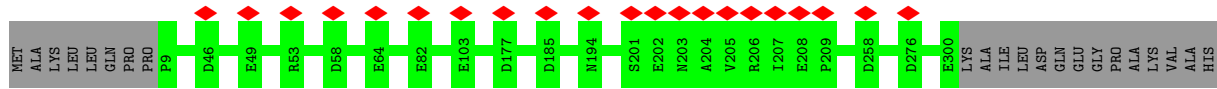
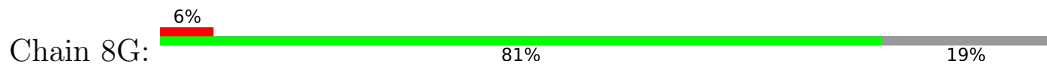
• Molecule 38: Tektin-1



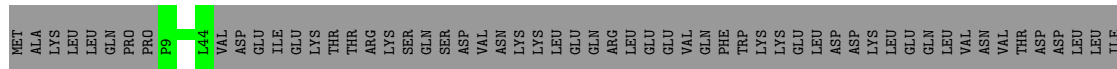
• Molecule 38: Tektin-1

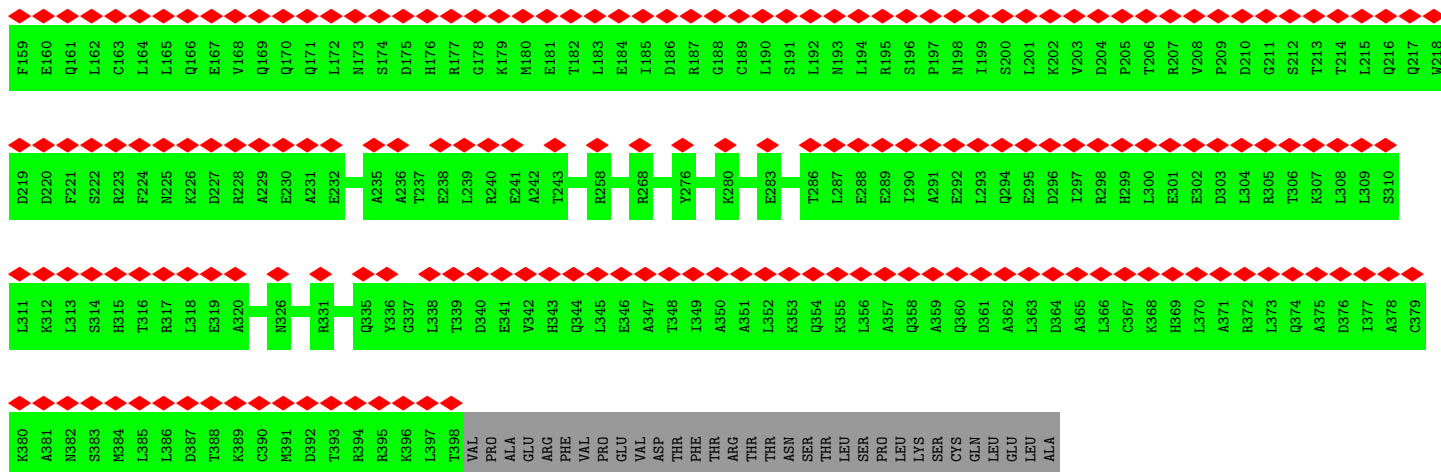


• Molecule 38: Tektin-1

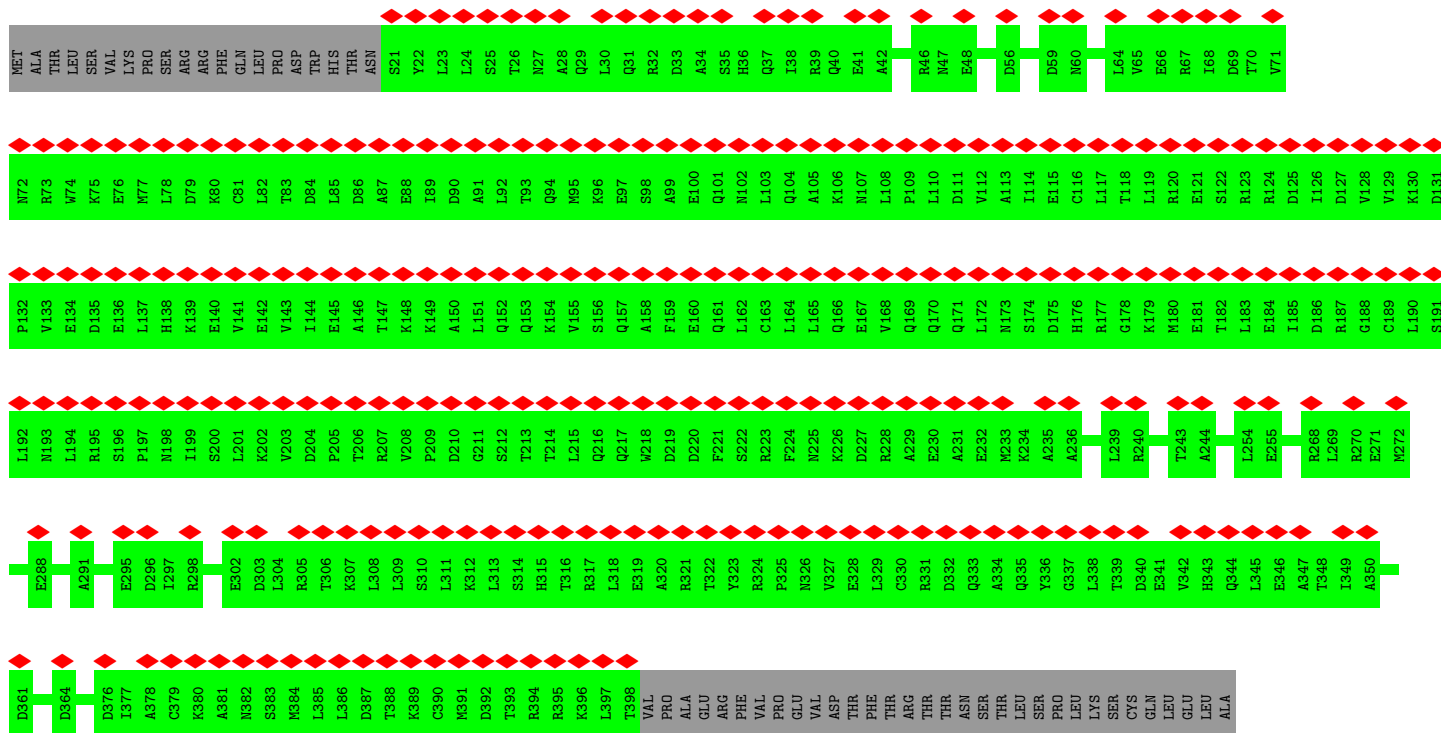
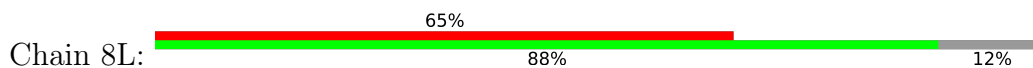


• Molecule 38: Tektin-1

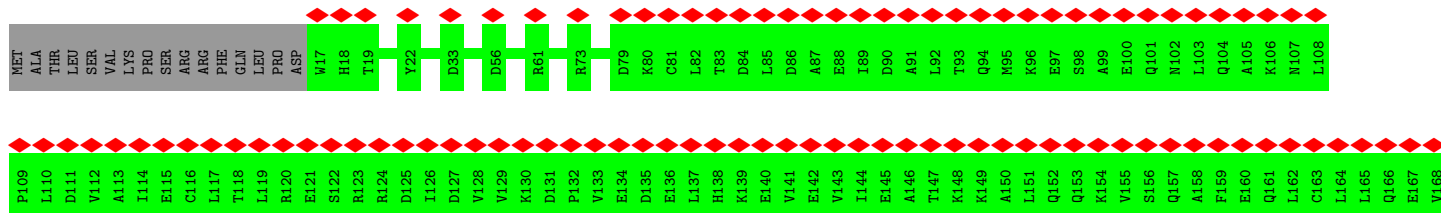
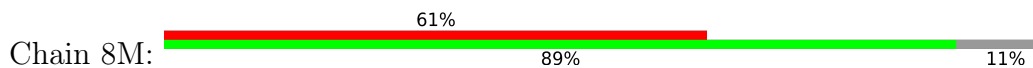


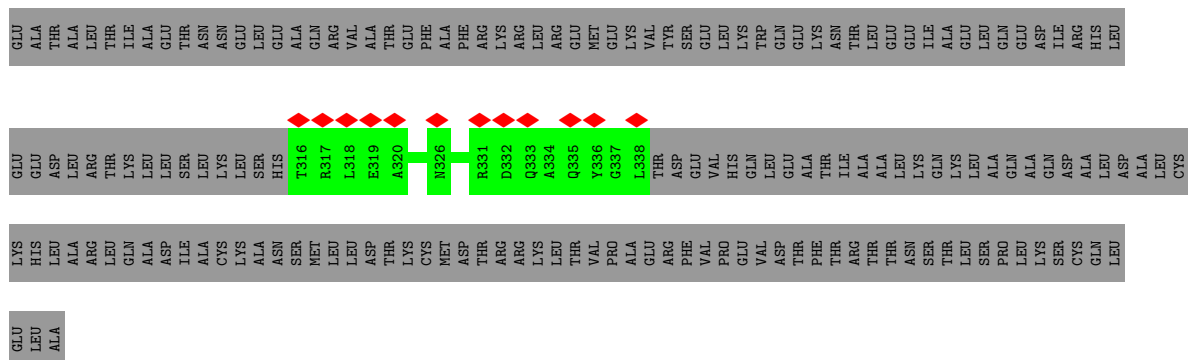


• Molecule 39: Tektin-2

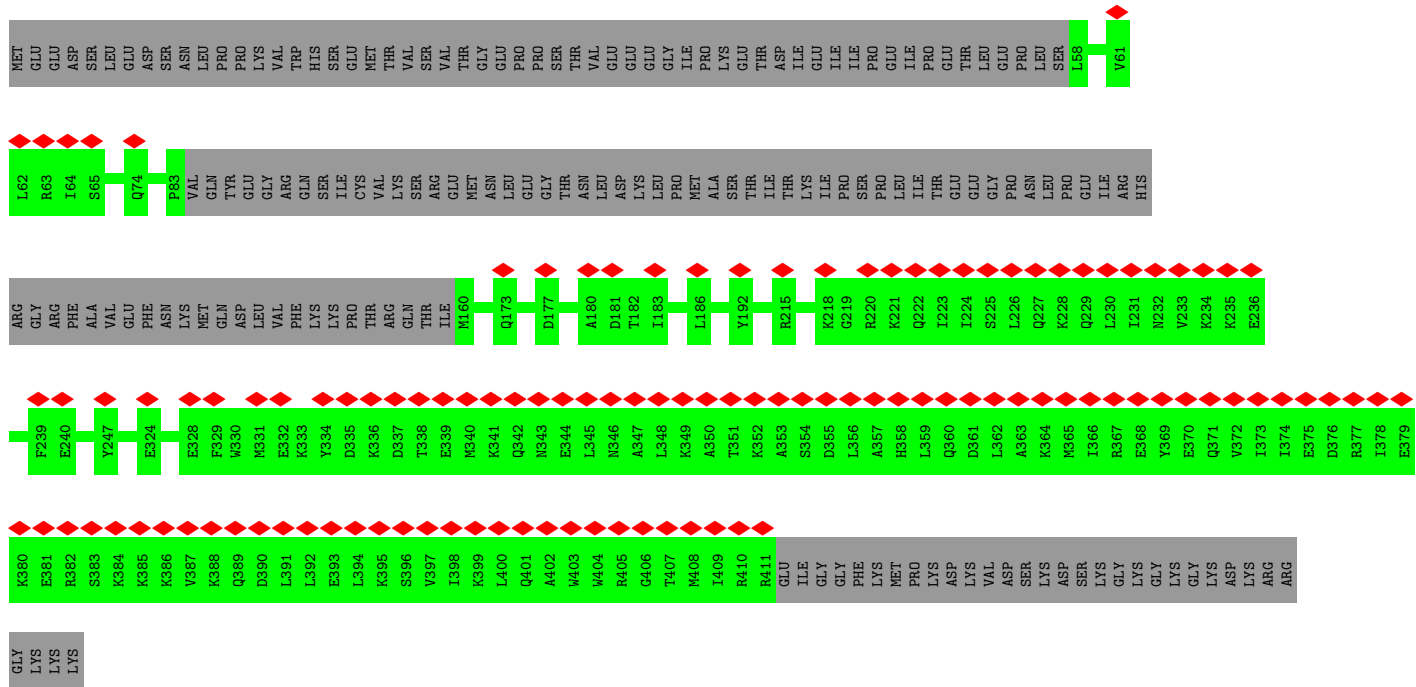


• Molecule 39: Tektin-2

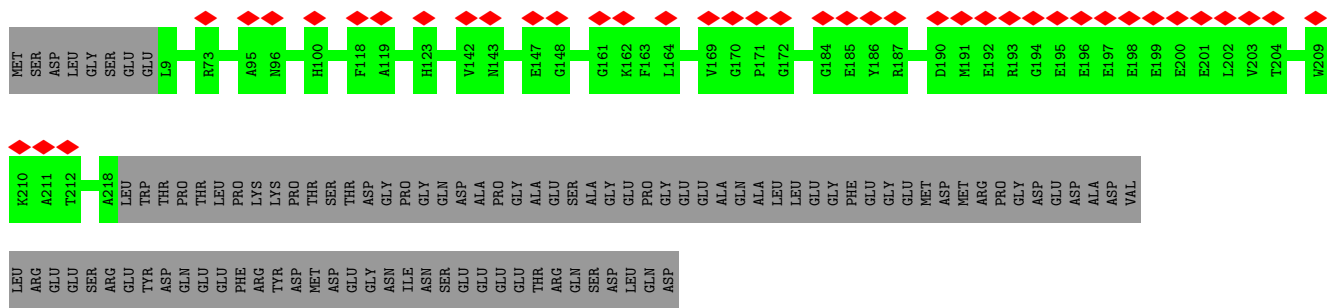




• Molecule 40: Dynein regulatory complex protein 9

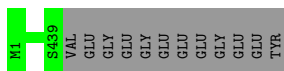


• Molecule 41: Radial spoke head 1 homolog



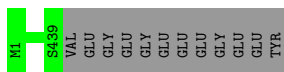
• Molecule 41: Radial spoke head 1 homolog

Chain AZ:  97%



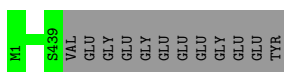
- Molecule 42: Tubulin alpha-1A chain

Chain AC:  97%



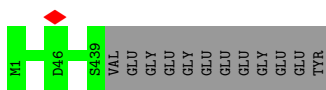
- Molecule 42: Tubulin alpha-1A chain

Chain AE:  97%



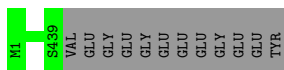
- Molecule 42: Tubulin alpha-1A chain

Chain AG:  97%



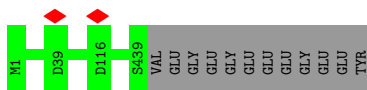
- Molecule 42: Tubulin alpha-1A chain

Chain AI:  97%



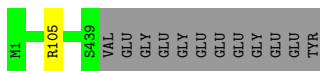
- Molecule 42: Tubulin alpha-1A chain

Chain AK:  97%



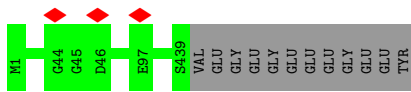
- Molecule 42: Tubulin alpha-1A chain

Chain AM:  97%



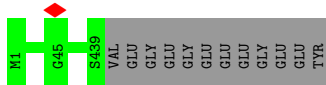
- Molecule 42: Tubulin alpha-1A chain

Chain AO:  97%



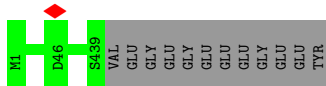
- Molecule 42: Tubulin alpha-1A chain

Chain AQ:  97%



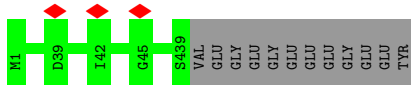
- Molecule 42: Tubulin alpha-1A chain

Chain AS:  97%



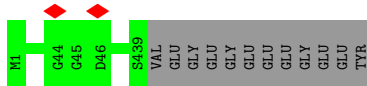
- Molecule 42: Tubulin alpha-1A chain

Chain AU:  97%



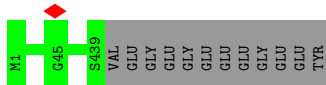
- Molecule 42: Tubulin alpha-1A chain

Chain AW:  97%



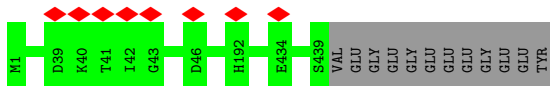
- Molecule 42: Tubulin alpha-1A chain

Chain AY:  97%



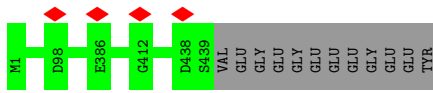
- Molecule 42: Tubulin alpha-1A chain

Chain BA:  97%



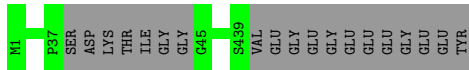
- Molecule 42: Tubulin alpha-1A chain

Chain BC:  97%



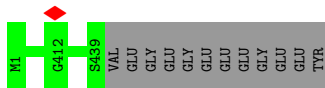
- Molecule 42: Tubulin alpha-1A chain

Chain BE:  96%



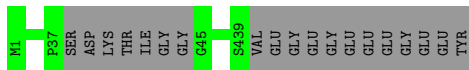
- Molecule 42: Tubulin alpha-1A chain

Chain BG:  97%



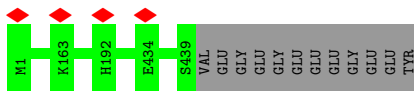
- Molecule 42: Tubulin alpha-1A chain

Chain BI:  96%



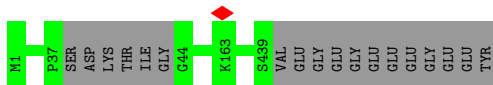
- Molecule 42: Tubulin alpha-1A chain

Chain BK:  97%



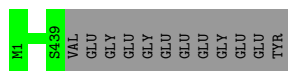
- Molecule 42: Tubulin alpha-1A chain

Chain BM:  96%

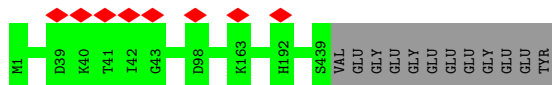


- Molecule 42: Tubulin alpha-1A chain

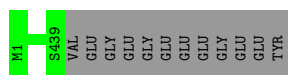
Chain BO:  97%



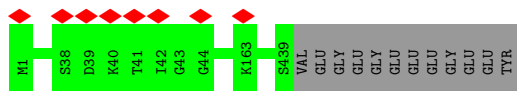
• Molecule 42: Tubulin alpha-1A chain



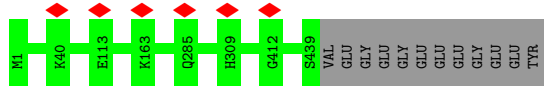
• Molecule 42: Tubulin alpha-1A chain



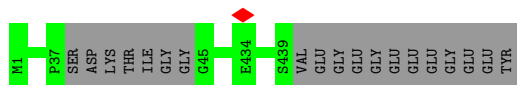
• Molecule 42: Tubulin alpha-1A chain



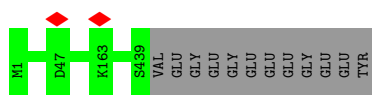
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

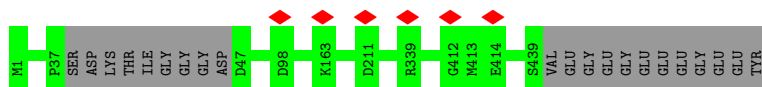


• Molecule 42: Tubulin alpha-1A chain



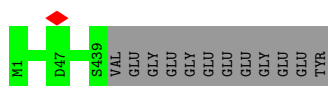
• Molecule 42: Tubulin alpha-1A chain

Chain CE:  95% 5%



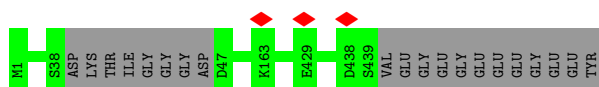
- Molecule 42: Tubulin alpha-1A chain

Chain CG:  97%



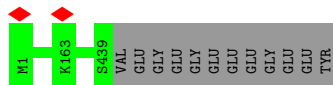
- Molecule 42: Tubulin alpha-1A chain

Chain CI:  96%



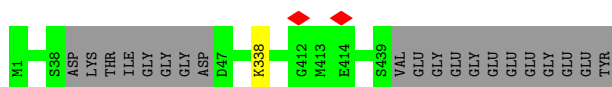
- Molecule 42: Tubulin alpha-1A chain

Chain CK:  97%



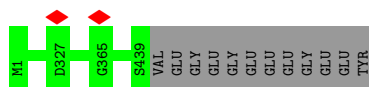
- Molecule 42: Tubulin alpha-1A chain

Chain CM:  95%



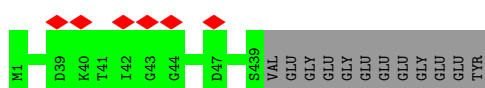
- Molecule 42: Tubulin alpha-1A chain

Chain CO:  97%



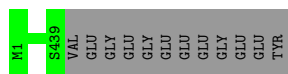
- Molecule 42: Tubulin alpha-1A chain

Chain CQ:  97%



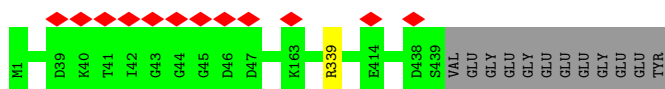
- Molecule 42: Tubulin alpha-1A chain

Chain CS:  97%



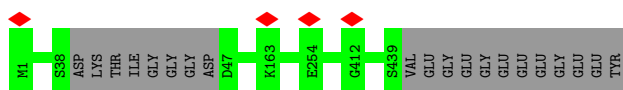
- Molecule 42: Tubulin alpha-1A chain

Chain CU:  97%



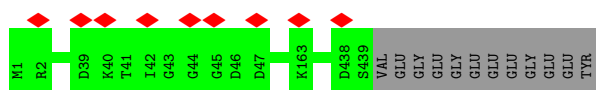
- Molecule 42: Tubulin alpha-1A chain

Chain CW:  96%



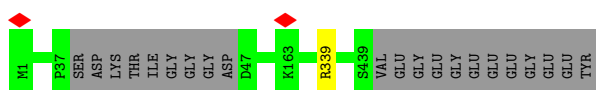
- Molecule 42: Tubulin alpha-1A chain

Chain CY:  97%



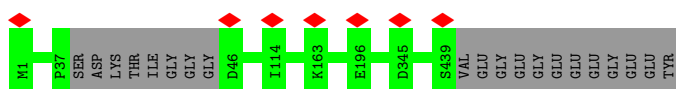
- Molecule 42: Tubulin alpha-1A chain

Chain DC:  95% 5%



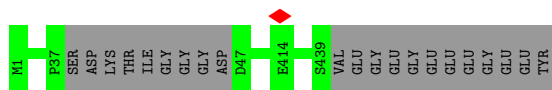
- Molecule 42: Tubulin alpha-1A chain

Chain DE:  96%



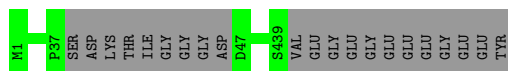
- Molecule 42: Tubulin alpha-1A chain

Chain DG:  95% 5%



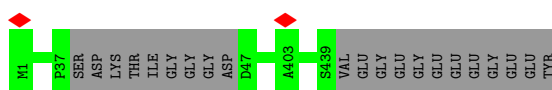
- Molecule 42: Tubulin alpha-1A chain

Chain DI: 95% 5%



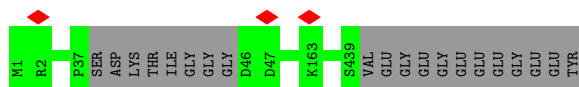
- Molecule 42: Tubulin alpha-1A chain

Chain DK: 95% 5%



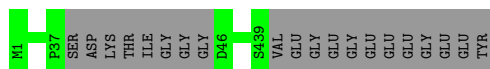
- Molecule 42: Tubulin alpha-1A chain

Chain DM: 96% .



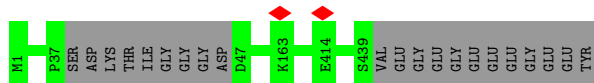
- Molecule 42: Tubulin alpha-1A chain

Chain DO: 96% .



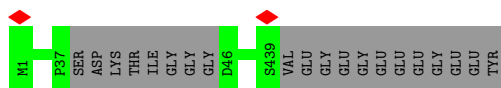
- Molecule 42: Tubulin alpha-1A chain

Chain DQ: 95% 5%



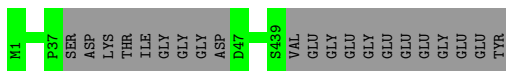
- Molecule 42: Tubulin alpha-1A chain

Chain DS: 96% .



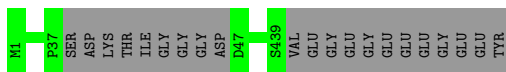
- Molecule 42: Tubulin alpha-1A chain

Chain DU:  95% 5%



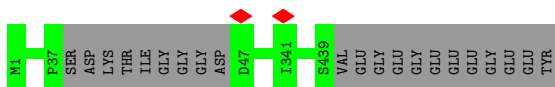
- Molecule 42: Tubulin alpha-1A chain

Chain DW:  95% 5%



- Molecule 42: Tubulin alpha-1A chain

Chain DY:  95% 5%



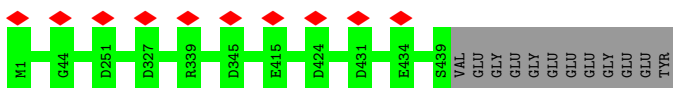
- Molecule 42: Tubulin alpha-1A chain

Chain EC:  97%



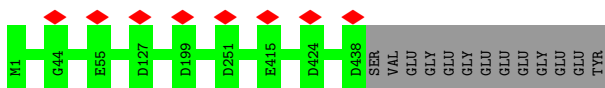
- Molecule 42: Tubulin alpha-1A chain

Chain EE:  97%



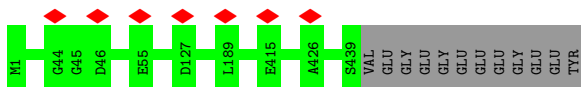
- Molecule 42: Tubulin alpha-1A chain

Chain EG:  97%

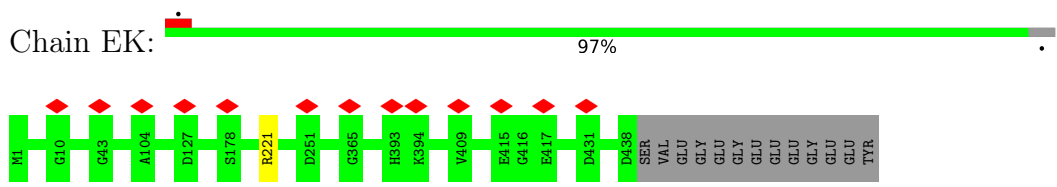


- Molecule 42: Tubulin alpha-1A chain

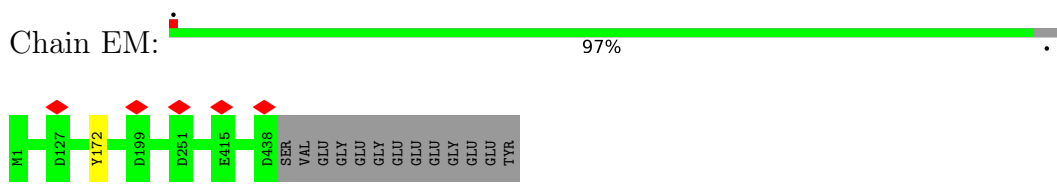
Chain EI:  97%



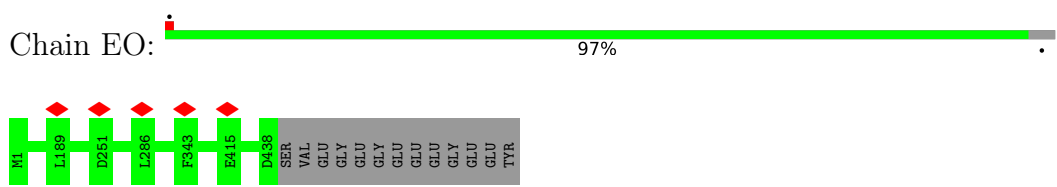
• Molecule 42: Tubulin alpha-1A chain



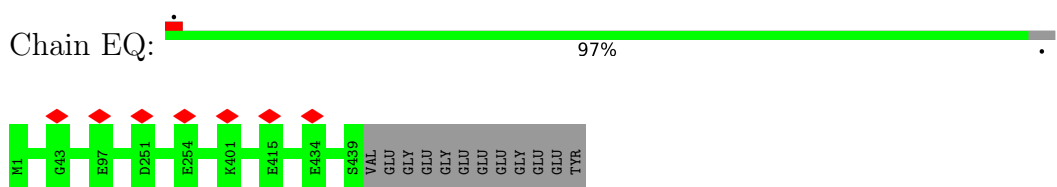
• Molecule 42: Tubulin alpha-1A chain



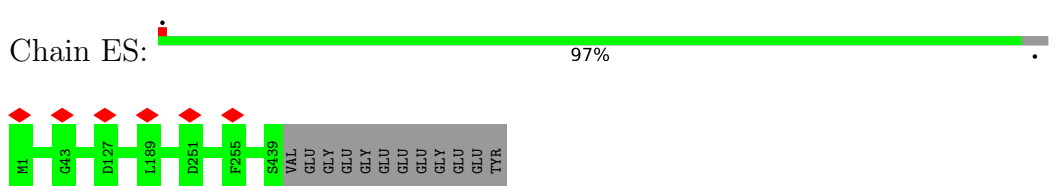
• Molecule 42: Tubulin alpha-1A chain



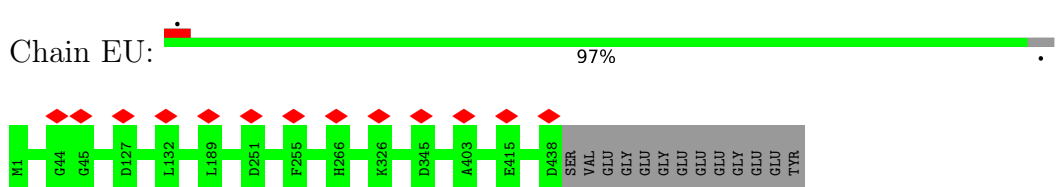
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

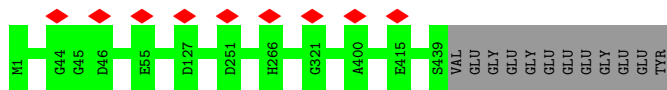


• Molecule 42: Tubulin alpha-1A chain

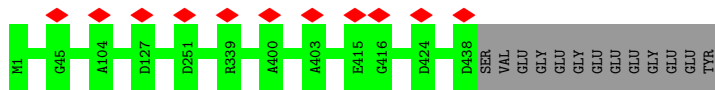


• Molecule 42: Tubulin alpha-1A chain

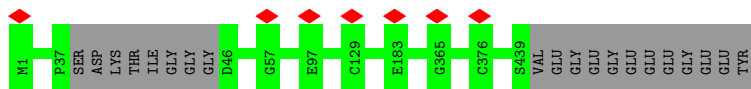




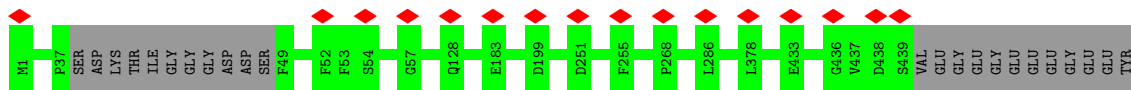
• Molecule 42: Tubulin alpha-1A chain



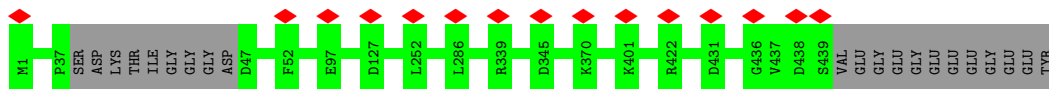
• Molecule 42: Tubulin alpha-1A chain



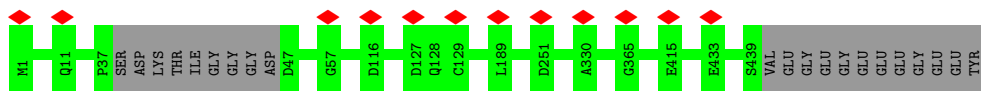
• Molecule 42: Tubulin alpha-1A chain



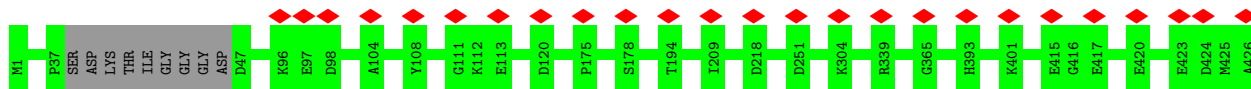
• Molecule 42: Tubulin alpha-1A chain

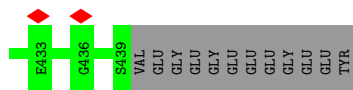


• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain





- Molecule 42: Tubulin alpha-1A chain

Chain FM: 95% 5%



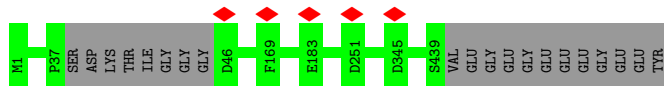
- Molecule 42: Tubulin alpha-1A chain

Chain FO: 95% 5%



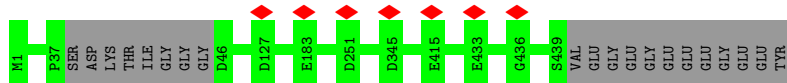
- Molecule 42: Tubulin alpha-1A chain

Chain FQ: 96% 5%



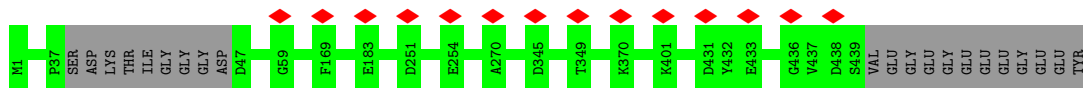
- Molecule 42: Tubulin alpha-1A chain

Chain FS: 96% 5%



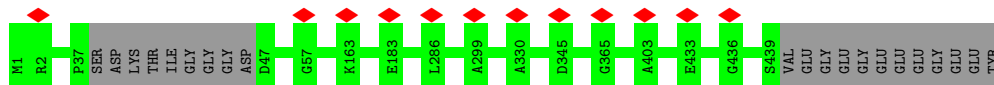
- Molecule 42: Tubulin alpha-1A chain

Chain FU: 95% 5%



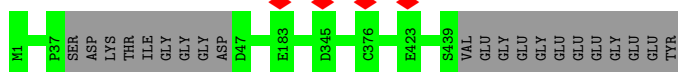
- Molecule 42: Tubulin alpha-1A chain

Chain FW: 95% 5%



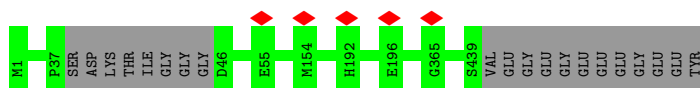
- Molecule 42: Tubulin alpha-1A chain

Chain FY:  95% 5%



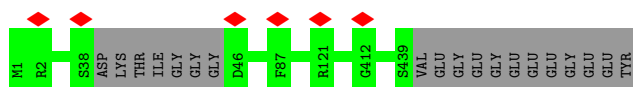
- Molecule 42: Tubulin alpha-1A chain

Chain GC:  96% 5%



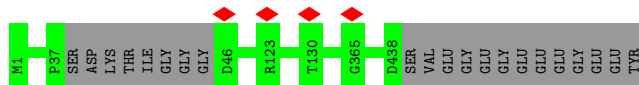
- Molecule 42: Tubulin alpha-1A chain

Chain GE:  96% 5%



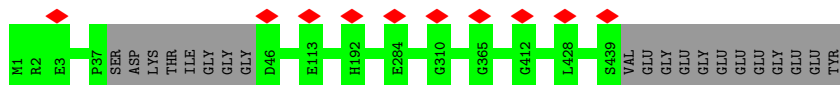
- Molecule 42: Tubulin alpha-1A chain

Chain GG:  95% 5%



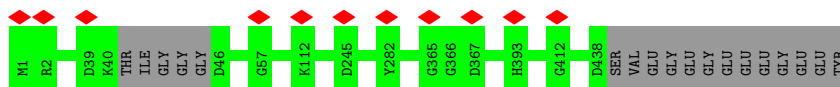
- Molecule 42: Tubulin alpha-1A chain

Chain GI:  96% 5%



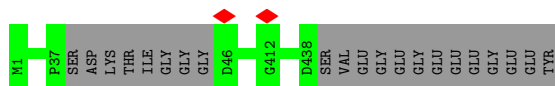
- Molecule 42: Tubulin alpha-1A chain

Chain GK:  96% 5%

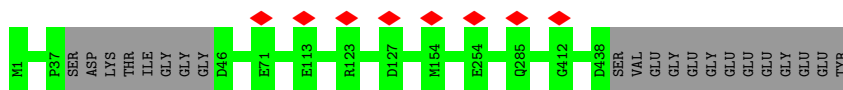


- Molecule 42: Tubulin alpha-1A chain

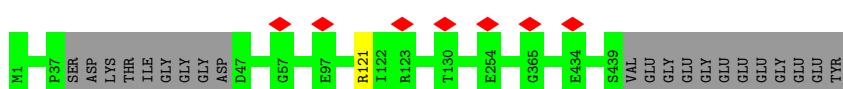
Chain GM:  95% 5%



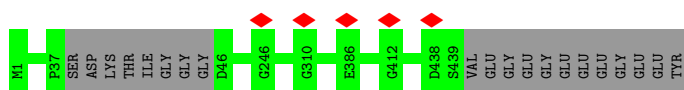
• Molecule 42: Tubulin alpha-1A chain



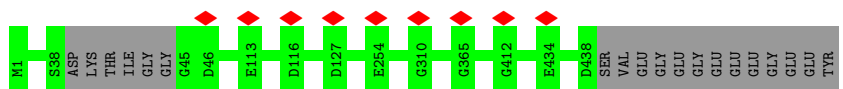
• Molecule 42: Tubulin alpha-1A chain



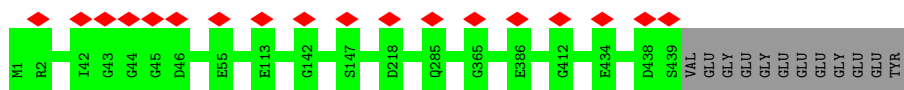
• Molecule 42: Tubulin alpha-1A chain



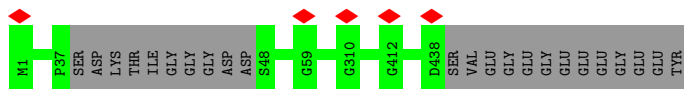
• Molecule 42: Tubulin alpha-1A chain



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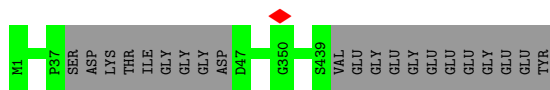


• Molecule 42: Tubulin alpha-1A chain

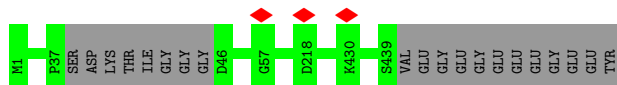


• Molecule 42: Tubulin alpha-1A chain

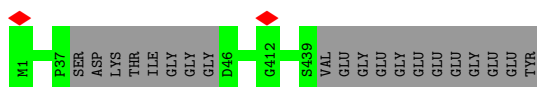




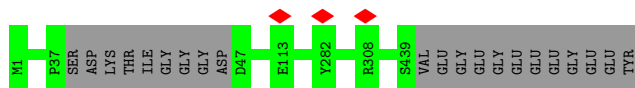
- Molecule 42: Tubulin alpha-1A chain



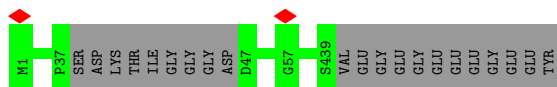
- Molecule 42: Tubulin alpha-1A chain



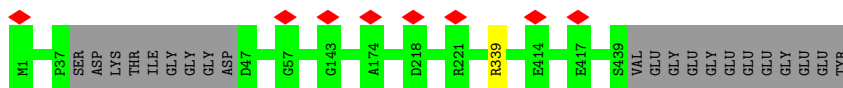
- Molecule 42: Tubulin alpha-1A chain



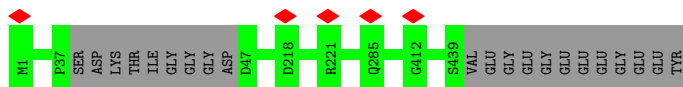
- Molecule 42: Tubulin alpha-1A chain



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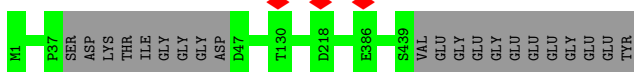


- Molecule 42: Tubulin alpha-1A chain



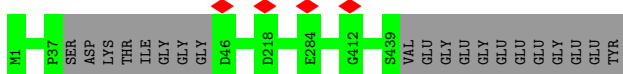
- Molecule 42: Tubulin alpha-1A chain

Chain HO:  95% 5%



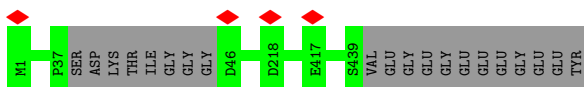
- Molecule 42: Tubulin alpha-1A chain

Chain HQ:  96% .



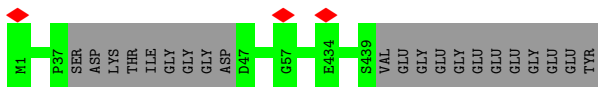
- Molecule 42: Tubulin alpha-1A chain

Chain HS:  96% .



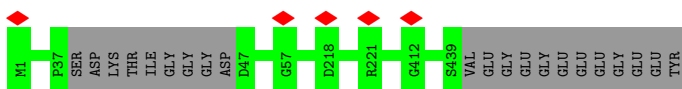
- Molecule 42: Tubulin alpha-1A chain

Chain HU:  95% 5%



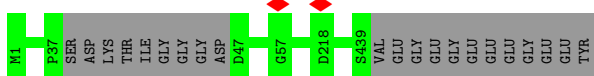
- Molecule 42: Tubulin alpha-1A chain

Chain HW:  95% 5%



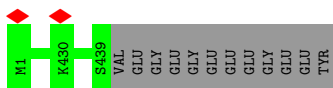
- Molecule 42: Tubulin alpha-1A chain

Chain HY:  95% 5%



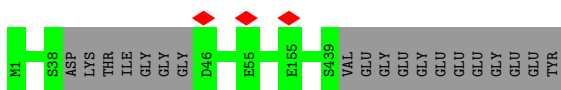
- Molecule 42: Tubulin alpha-1A chain

Chain IA:  97% .



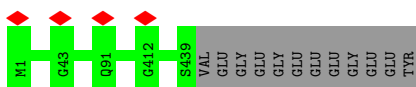
- Molecule 42: Tubulin alpha-1A chain

Chain IC:  96%



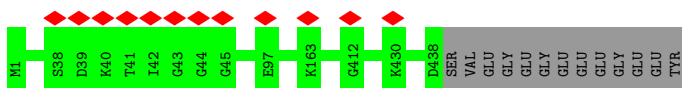
- Molecule 42: Tubulin alpha-1A chain

Chain IE:  97%



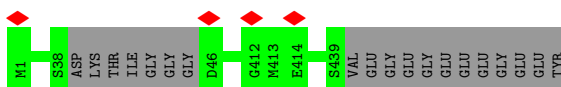
- Molecule 42: Tubulin alpha-1A chain

Chain IG:  97%



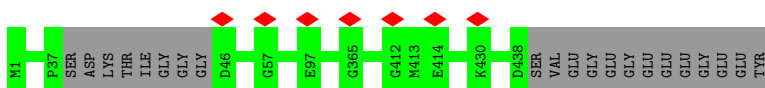
- Molecule 42: Tubulin alpha-1A chain

Chain II:  96%



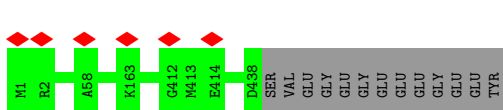
- Molecule 42: Tubulin alpha-1A chain

Chain IK:  95% 5%



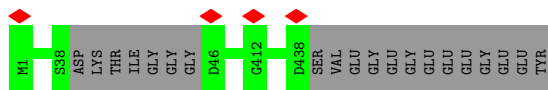
- Molecule 42: Tubulin alpha-1A chain

Chain IM:  97%

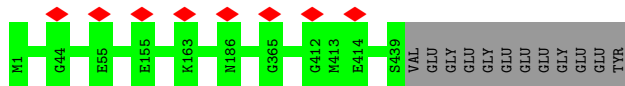


- Molecule 42: Tubulin alpha-1A chain

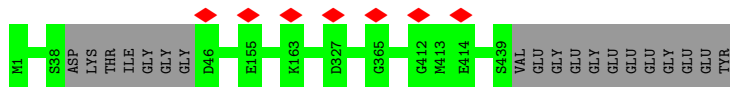
Chain IO:  96%



- Molecule 42: Tubulin alpha-1A chain



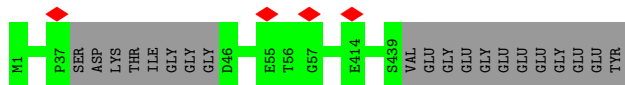
- Molecule 42: Tubulin alpha-1A chain



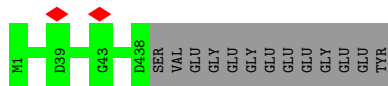
- Molecule 42: Tubulin alpha-1A chain



- Molecule 42: Tubulin alpha-1A chain



- Molecule 42: Tubulin alpha-1A chain

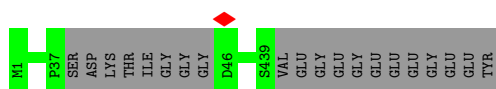


- Molecule 42: Tubulin alpha-1A chain



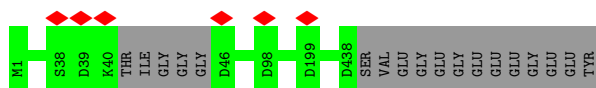
- Molecule 42: Tubulin alpha-1A chain

Chain JE:  96%



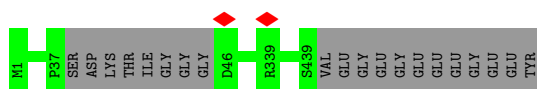
- Molecule 42: Tubulin alpha-1A chain

Chain JG:  96%



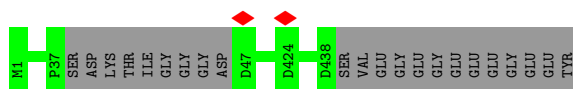
- Molecule 42: Tubulin alpha-1A chain

Chain JI:  96%



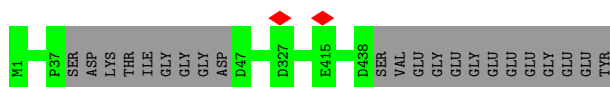
- Molecule 42: Tubulin alpha-1A chain

Chain JK:  95% 5%



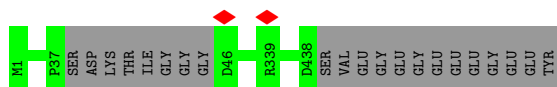
- Molecule 42: Tubulin alpha-1A chain

Chain JM:  95% 5%



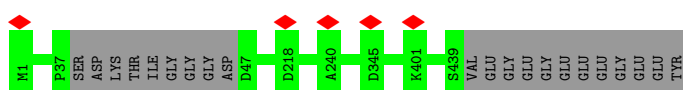
- Molecule 42: Tubulin alpha-1A chain

Chain JO:  95% 5%



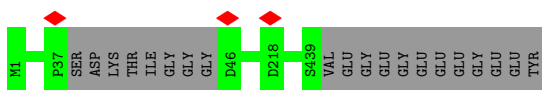
- Molecule 42: Tubulin alpha-1A chain

Chain JQ:  95% 5%



- Molecule 42: Tubulin alpha-1A chain

Chain JS:  96%



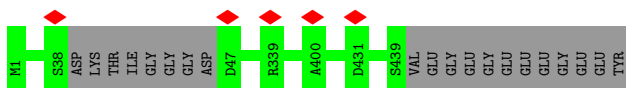
- Molecule 42: Tubulin alpha-1A chain

Chain JU:  95% 5%



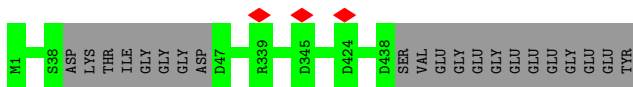
- Molecule 42: Tubulin alpha-1A chain

Chain JW:  96%



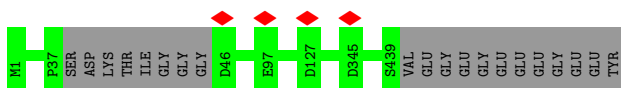
- Molecule 42: Tubulin alpha-1A chain

Chain JY:  95% 5%



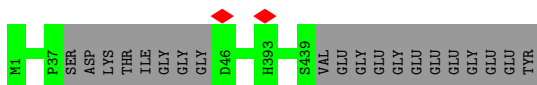
- Molecule 42: Tubulin alpha-1A chain

Chain KC:  96%



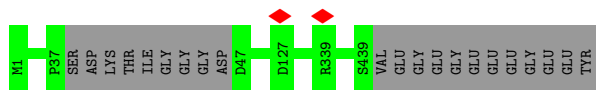
- Molecule 42: Tubulin alpha-1A chain

Chain KE:  96%

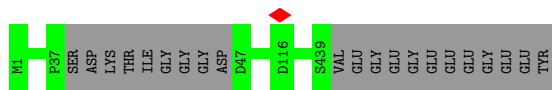


- Molecule 42: Tubulin alpha-1A chain

Chain KG:  95% 5%



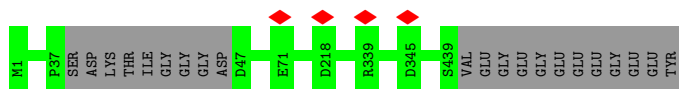
• Molecule 42: Tubulin alpha-1A chain



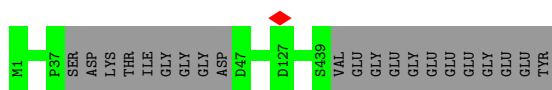
• Molecule 42: Tubulin alpha-1A chain



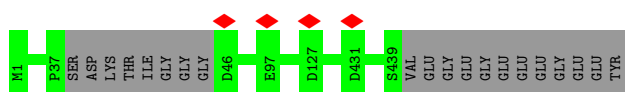
• Molecule 42: Tubulin alpha-1A chain



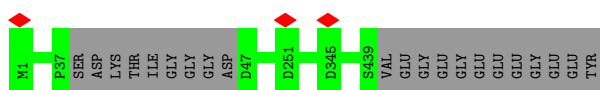
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

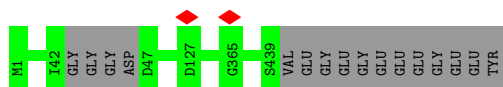


• Molecule 42: Tubulin alpha-1A chain



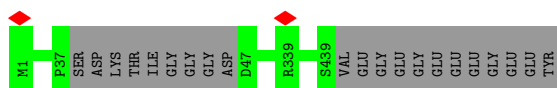
• Molecule 42: Tubulin alpha-1A chain

Chain KU:  96%



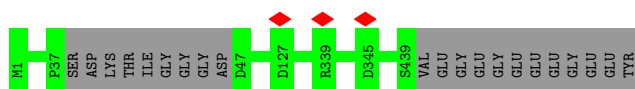
- Molecule 42: Tubulin alpha-1A chain

Chain KW:  95% 5%



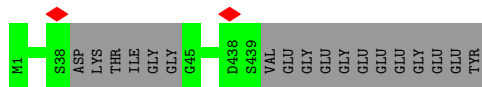
- Molecule 42: Tubulin alpha-1A chain

Chain KY:  95% 5%



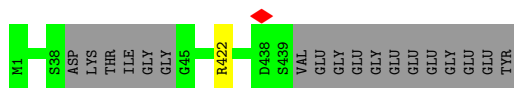
- Molecule 42: Tubulin alpha-1A chain

Chain LC:  96%



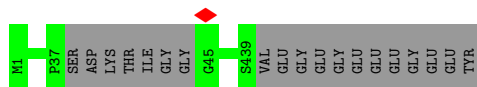
- Molecule 42: Tubulin alpha-1A chain

Chain LE:  96%



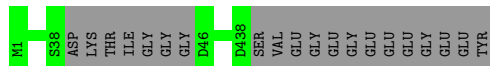
- Molecule 42: Tubulin alpha-1A chain

Chain LG:  96%

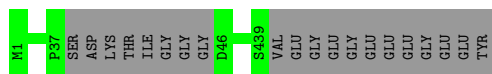


- Molecule 42: Tubulin alpha-1A chain

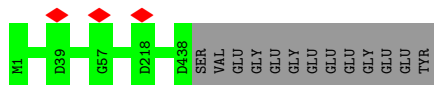
Chain LI:  96%



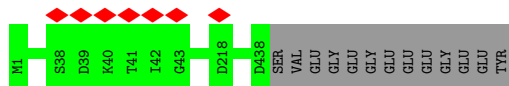
• Molecule 42: Tubulin alpha-1A chain



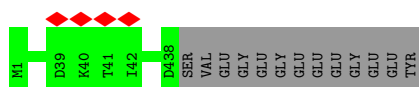
• Molecule 42: Tubulin alpha-1A chain



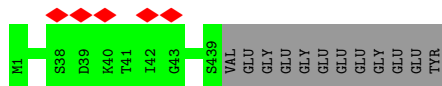
• Molecule 42: Tubulin alpha-1A chain



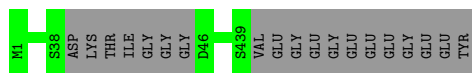
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

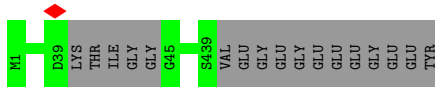


• Molecule 42: Tubulin alpha-1A chain



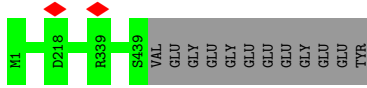
• Molecule 42: Tubulin alpha-1A chain





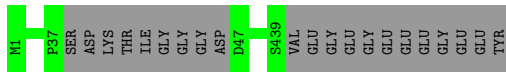
- Molecule 42: Tubulin alpha-1A chain

Chain LY: 97%



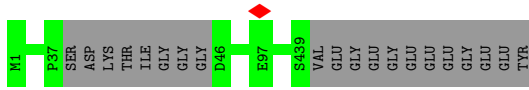
- Molecule 42: Tubulin alpha-1A chain

Chain MA: 95% 5%



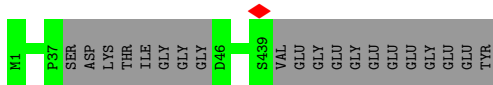
- Molecule 42: Tubulin alpha-1A chain

Chain MC: 96%



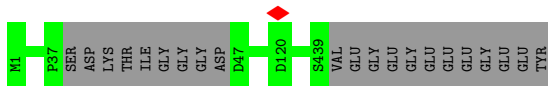
- Molecule 42: Tubulin alpha-1A chain

Chain ME: 96%



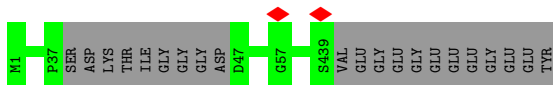
- Molecule 42: Tubulin alpha-1A chain

Chain MG: 95% 5%

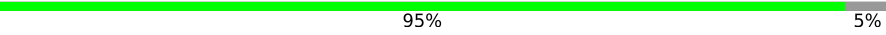


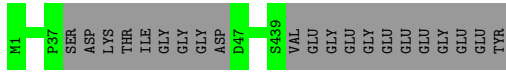
- Molecule 42: Tubulin alpha-1A chain

Chain MI: 95% 5%



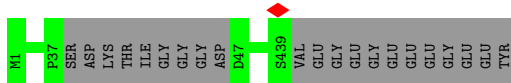
- Molecule 42: Tubulin alpha-1A chain

Chain MK:  95% 5%



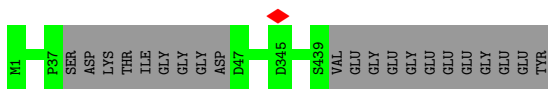
- Molecule 42: Tubulin alpha-1A chain

Chain MM:  95% 5%



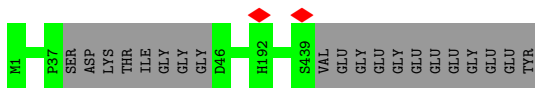
- Molecule 42: Tubulin alpha-1A chain

Chain MO:  95% 5%



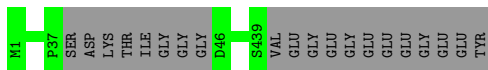
- Molecule 42: Tubulin alpha-1A chain

Chain MQ:  96% 5%



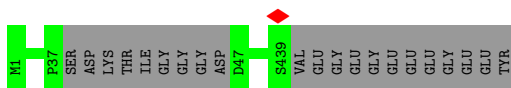
- Molecule 42: Tubulin alpha-1A chain

Chain MS:  96% 5%



- Molecule 42: Tubulin alpha-1A chain

Chain MU:  95% 5%



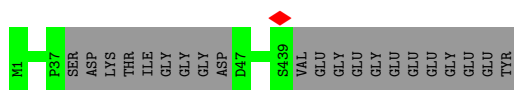
- Molecule 42: Tubulin alpha-1A chain

Chain MW:  95% 5%



• Molecule 42: Tubulin alpha-1A chain

Chain MY:  95% 5%



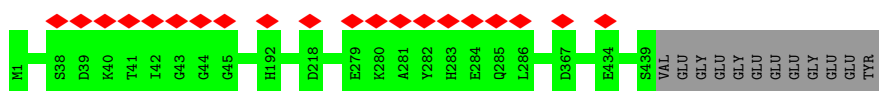
• Molecule 42: Tubulin alpha-1A chain

Chain NA:  96%



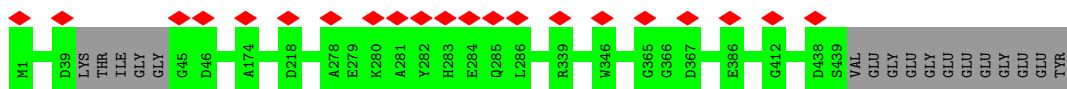
• Molecule 42: Tubulin alpha-1A chain

Chain NC:  97%



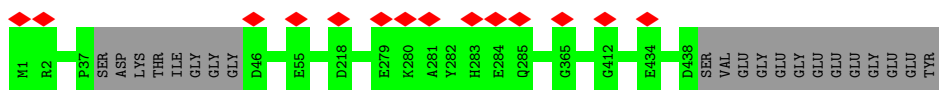
• Molecule 42: Tubulin alpha-1A chain

Chain NE:  5% 96%



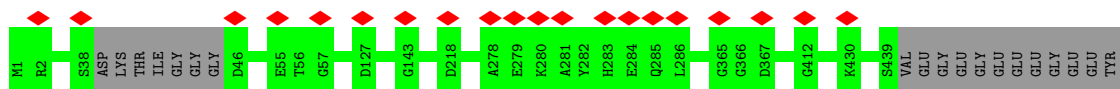
• Molecule 42: Tubulin alpha-1A chain

Chain NG:  5% 95% 5%



• Molecule 42: Tubulin alpha-1A chain

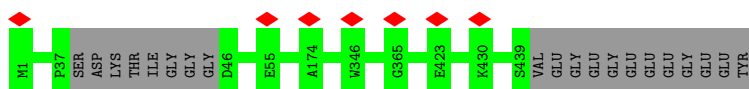
Chain NI:  5% 96% 5%



• Molecule 42: Tubulin alpha-1A chain

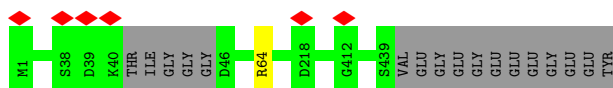
Chain NK:  6% 97%

Chain OA:  96%



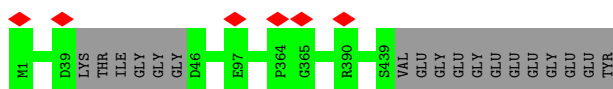
- Molecule 42: Tubulin alpha-1A chain

Chain OC:  96%



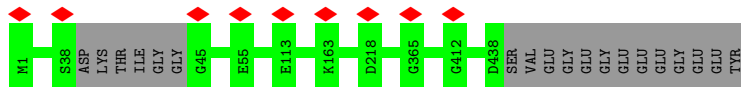
- Molecule 42: Tubulin alpha-1A chain

Chain OE:  96%



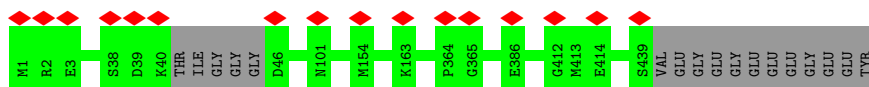
- Molecule 42: Tubulin alpha-1A chain

Chain OG:  96%



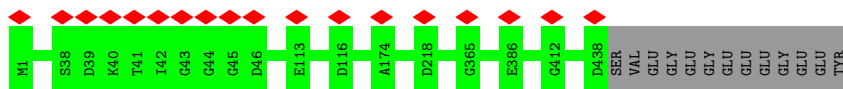
- Molecule 42: Tubulin alpha-1A chain

Chain OI:  96%



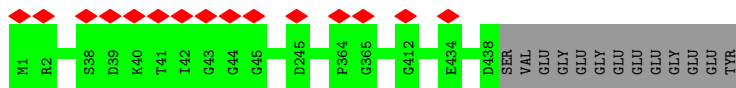
- Molecule 42: Tubulin alpha-1A chain

Chain OK:  97%

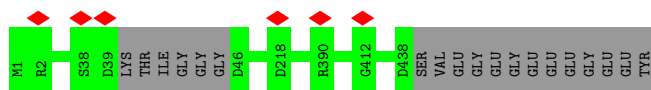


- Molecule 42: Tubulin alpha-1A chain

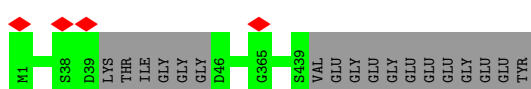
Chain OM:  97%



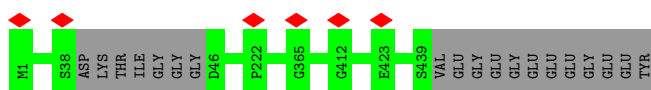
• Molecule 42: Tubulin alpha-1A chain



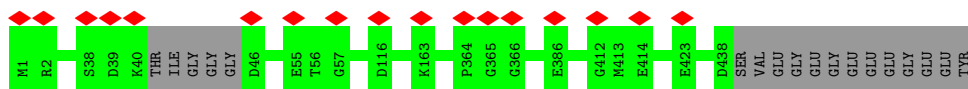
• Molecule 42: Tubulin alpha-1A chain



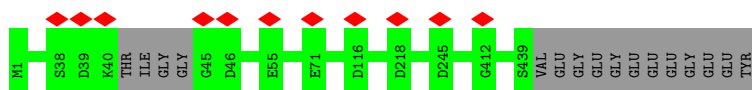
• Molecule 42: Tubulin alpha-1A chain



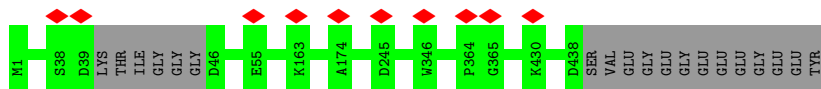
• Molecule 42: Tubulin alpha-1A chain



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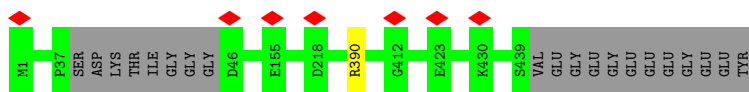


• Molecule 42: Tubulin alpha-1A chain

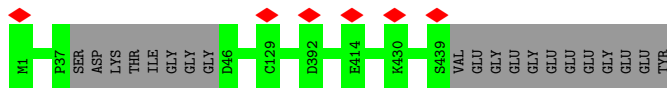


• Molecule 42: Tubulin alpha-1A chain





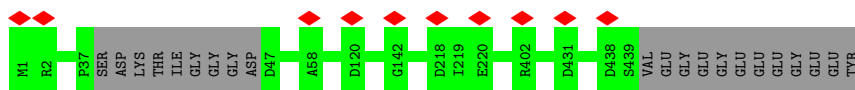
- Molecule 42: Tubulin alpha-1A chain



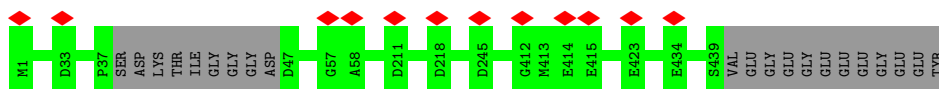
- Molecule 42: Tubulin alpha-1A chain



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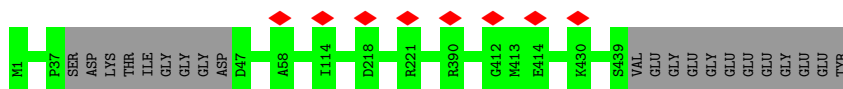
- Molecule 42: Tubulin alpha-1A chain



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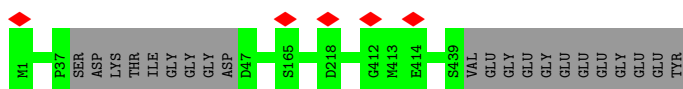


- Molecule 42: Tubulin alpha-1A chain



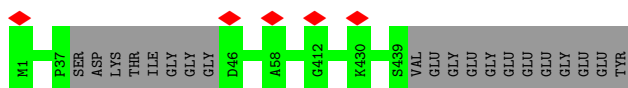
- Molecule 42: Tubulin alpha-1A chain

Chain PO:  95% 5%



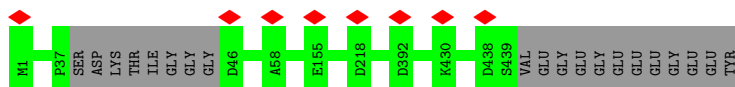
- Molecule 42: Tubulin alpha-1A chain

Chain PQ:  96% .



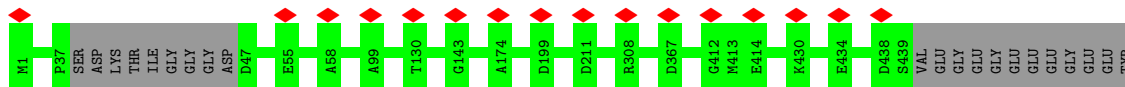
- Molecule 42: Tubulin alpha-1A chain

Chain PS:  96% .



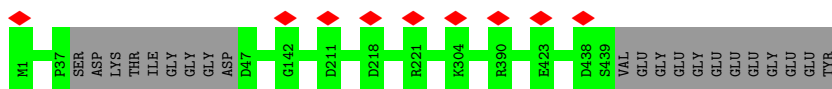
- Molecule 42: Tubulin alpha-1A chain

Chain PU:  95% 5%



- Molecule 42: Tubulin alpha-1A chain

Chain PW:  95% 5%



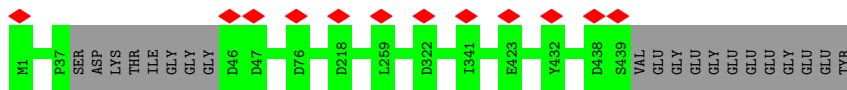
- Molecule 42: Tubulin alpha-1A chain

Chain PY:  95% 5%

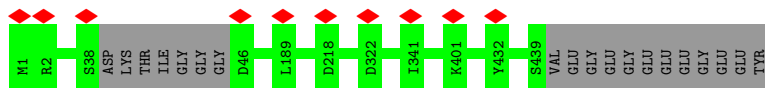


- Molecule 42: Tubulin alpha-1A chain

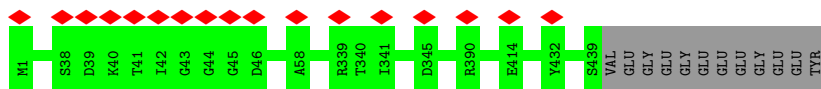
Chain QA:  96% .



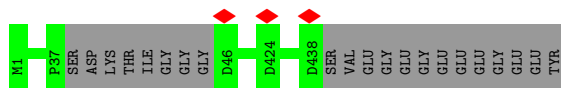
- Molecule 42: Tubulin alpha-1A chain



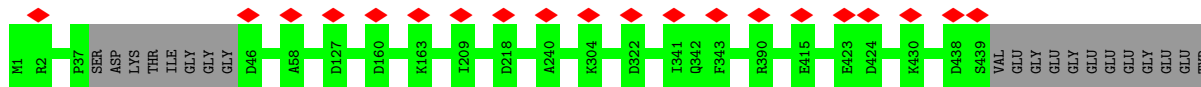
- Molecule 42: Tubulin alpha-1A chain



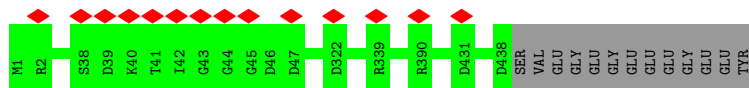
- Molecule 42: Tubulin alpha-1A chain



- Molecule 42: Tubulin alpha-1A chain



- Molecule 42: Tubulin alpha-1A chain

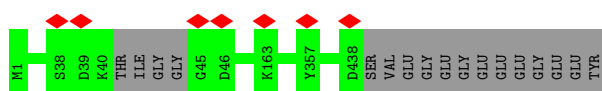


- Molecule 42: Tubulin alpha-1A chain



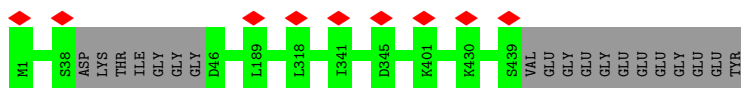
- Molecule 42: Tubulin alpha-1A chain

Chain QO:  96%



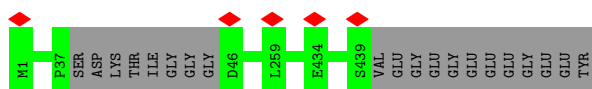
- Molecule 42: Tubulin alpha-1A chain

Chain QQ:  96%



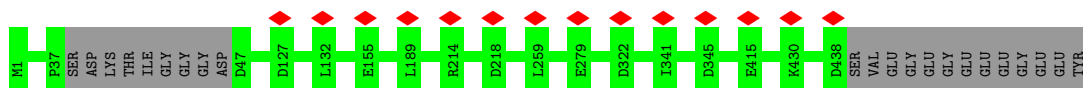
- Molecule 42: Tubulin alpha-1A chain

Chain QS:  96%



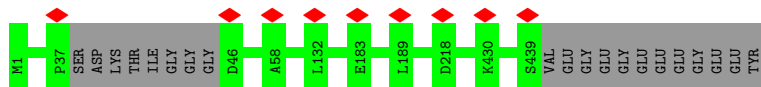
- Molecule 42: Tubulin alpha-1A chain

Chain QU:  95% 5%



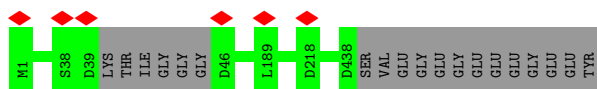
- Molecule 42: Tubulin alpha-1A chain

Chain QW:  96%



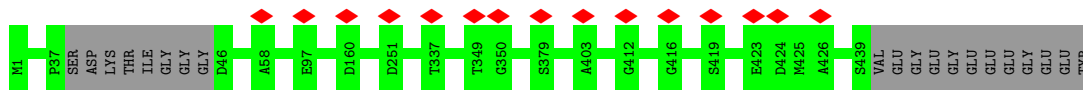
- Molecule 42: Tubulin alpha-1A chain

Chain QY:  96%

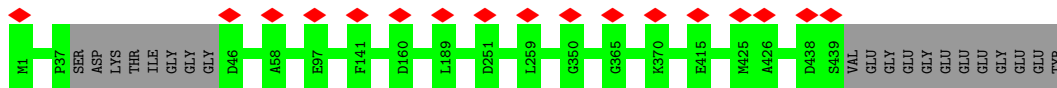


- Molecule 42: Tubulin alpha-1A chain

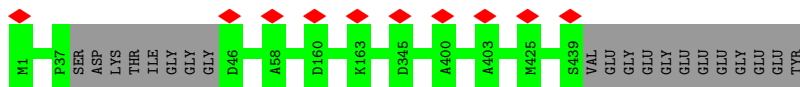
Chain RA:  96%



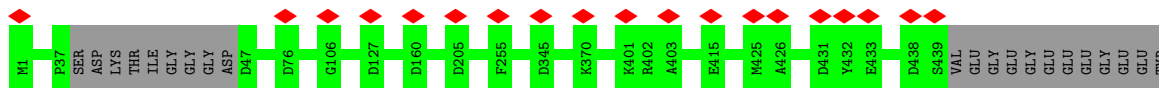
• Molecule 42: Tubulin alpha-1A chain



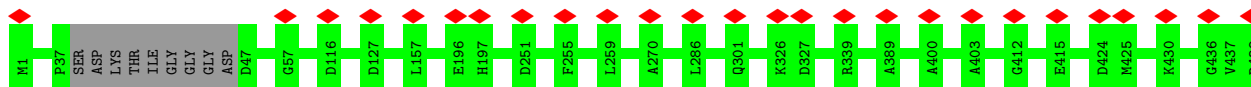
• Molecule 42: Tubulin alpha-1A chain



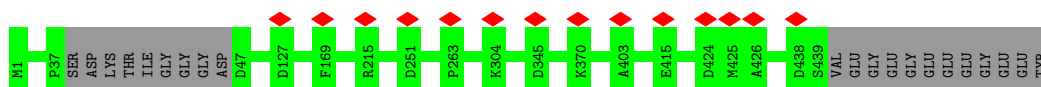
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

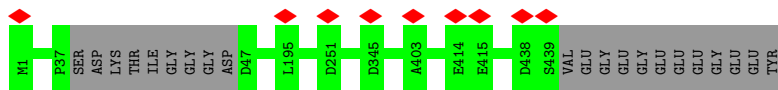


• Molecule 42: Tubulin alpha-1A chain

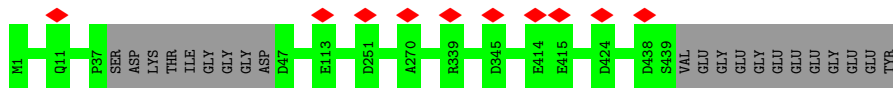


• Molecule 42: Tubulin alpha-1A chain

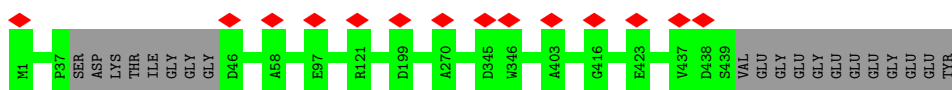




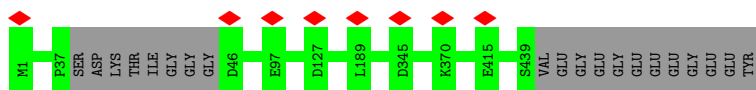
• Molecule 42: Tubulin alpha-1A chain



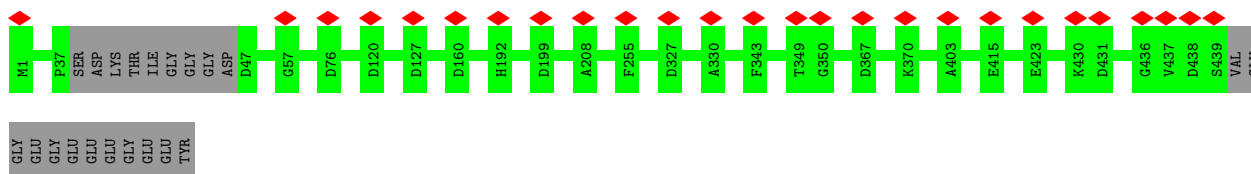
• Molecule 42: Tubulin alpha-1A chain



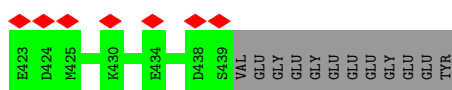
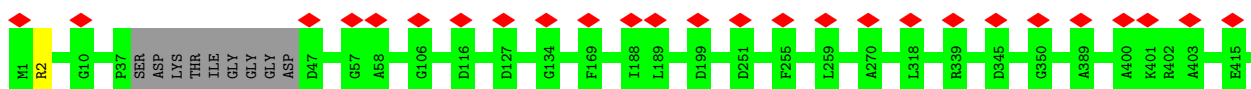
• Molecule 42: Tubulin alpha-1A chain



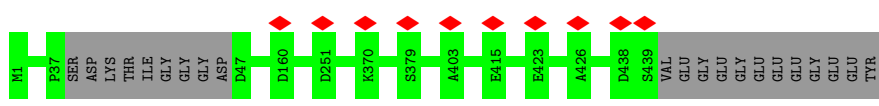
• Molecule 42: Tubulin alpha-1A chain



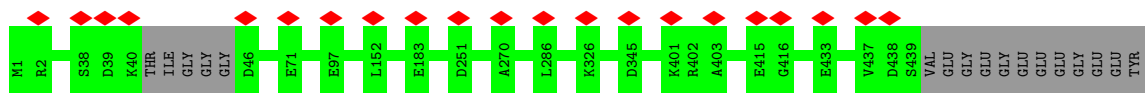
• Molecule 42: Tubulin alpha-1A chain



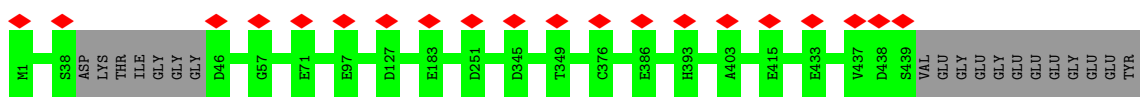
• Molecule 42: Tubulin alpha-1A chain



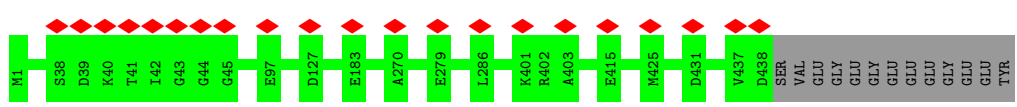
• Molecule 42: Tubulin alpha-1A chain



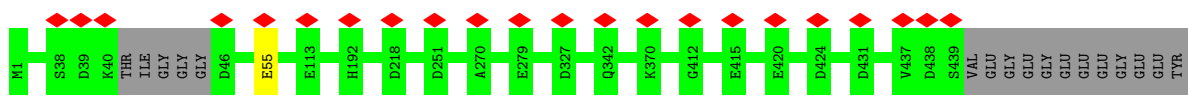
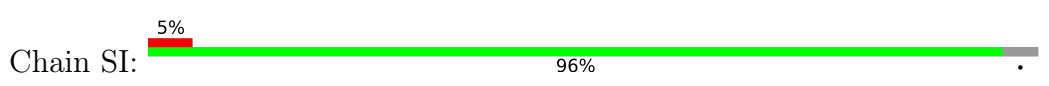
• Molecule 42: Tubulin alpha-1A chain



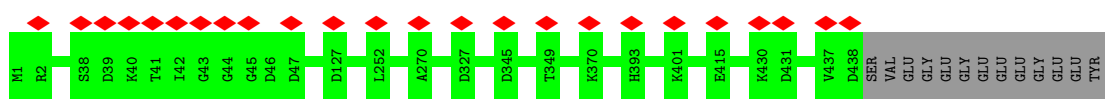
• Molecule 42: Tubulin alpha-1A chain



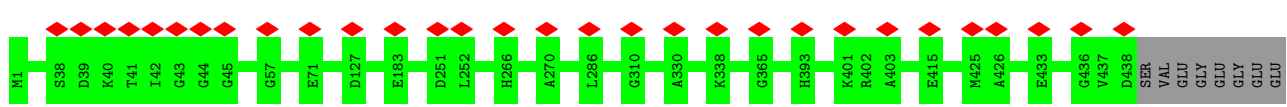
• Molecule 42: Tubulin alpha-1A chain



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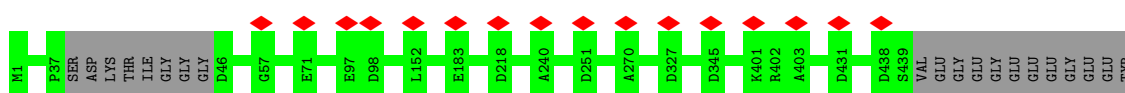


GLU
GLY
GLU
TYR

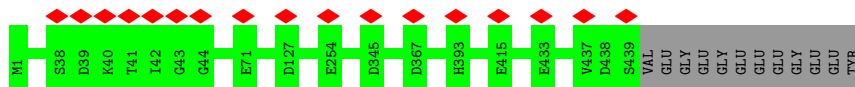
• Molecule 42: Tubulin alpha-1A chain



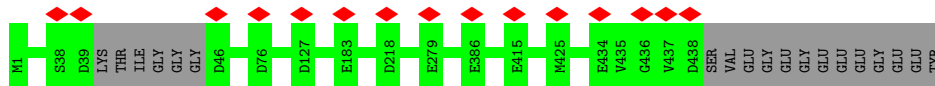
• Molecule 42: Tubulin alpha-1A chain



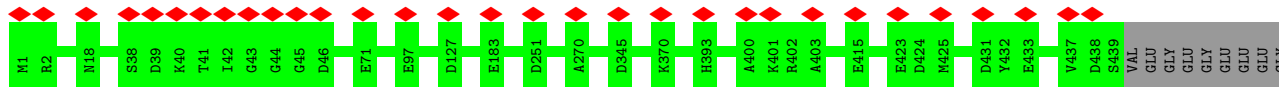
• Molecule 42: Tubulin alpha-1A chain



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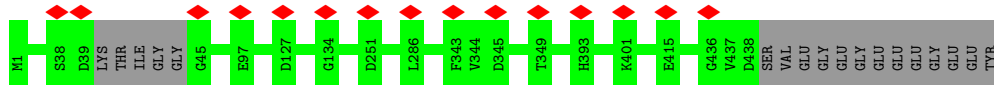


• Molecule 42: Tubulin alpha-1A chain

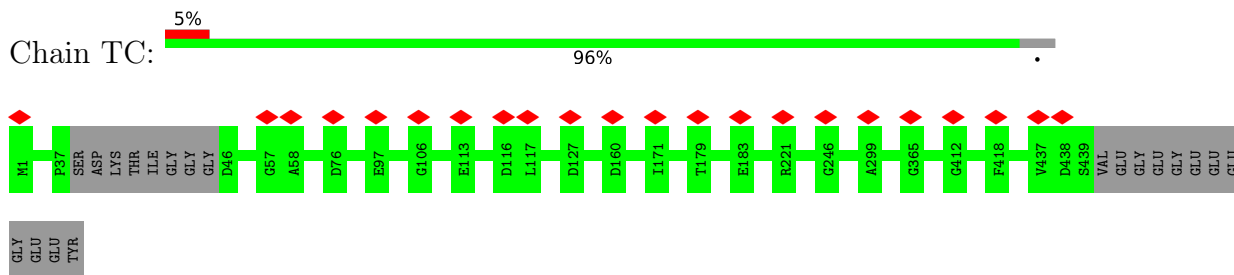


GLU
GLU
TYR

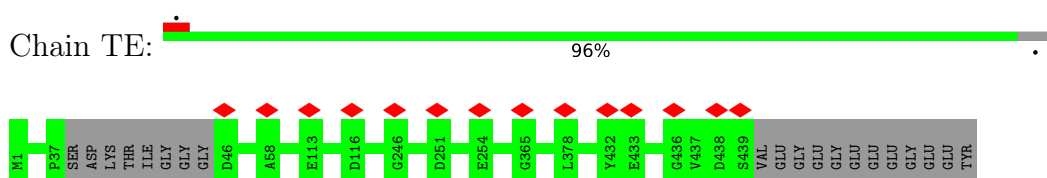
• Molecule 42: Tubulin alpha-1A chain



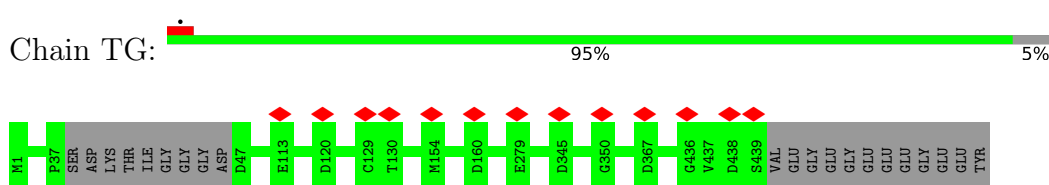
• Molecule 42: Tubulin alpha-1A chain



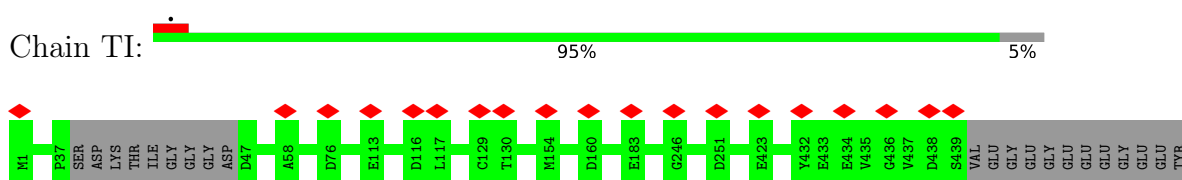
• Molecule 42: Tubulin alpha-1A chain



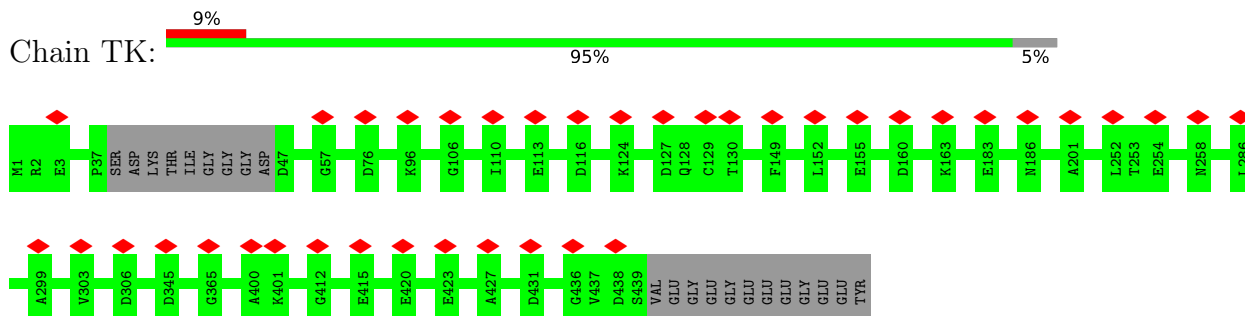
• Molecule 42: Tubulin alpha-1A chain



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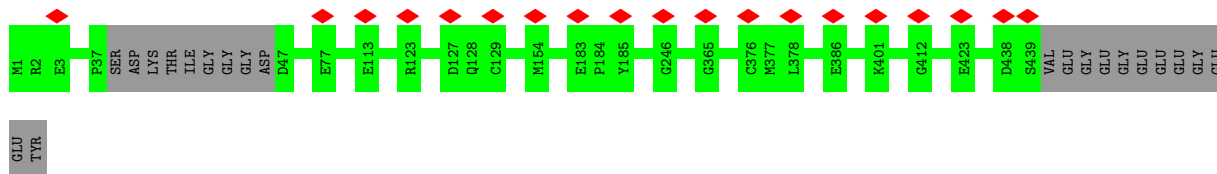


• Molecule 42: Tubulin alpha-1A chain

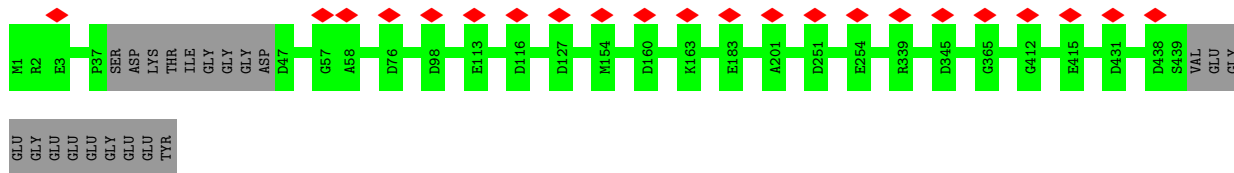


• Molecule 42: Tubulin alpha-1A chain

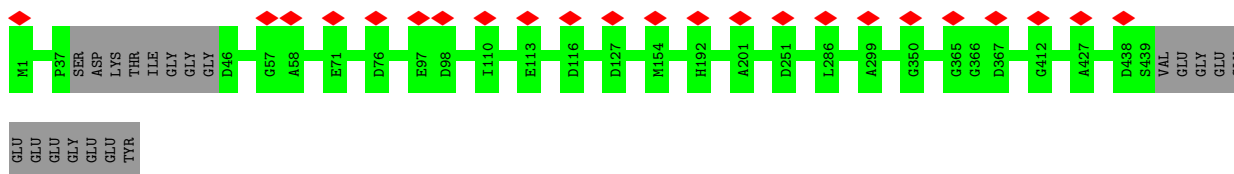




• Molecule 42: Tubulin alpha-1A chain



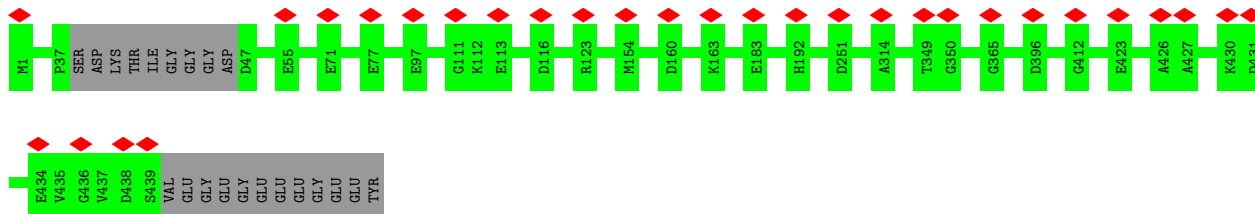
• Molecule 42: Tubulin alpha-1A chain



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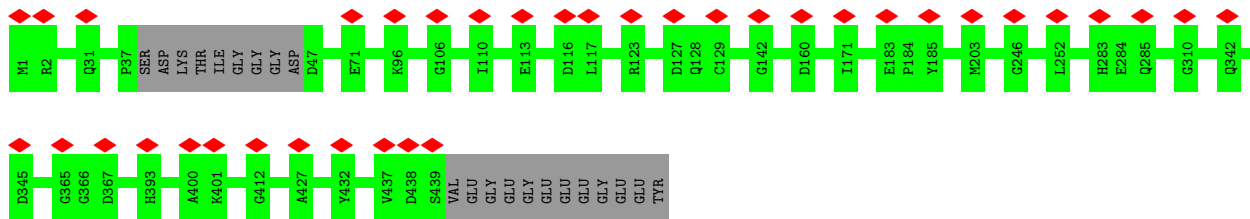


• Molecule 42: Tubulin alpha-1A chain

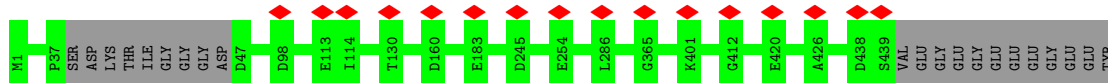


• Molecule 42: Tubulin alpha-1A chain

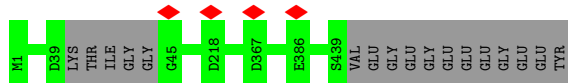




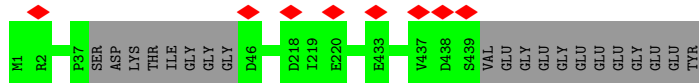
• Molecule 42: Tubulin alpha-1A chain



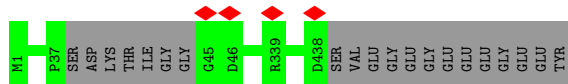
• Molecule 42: Tubulin alpha-1A chain



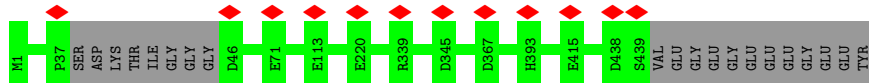
• Molecule 42: Tubulin alpha-1A chain



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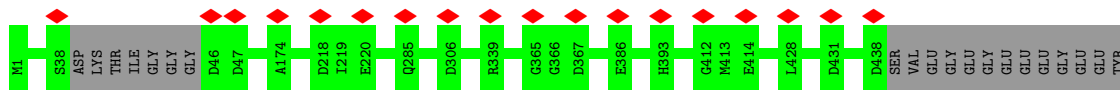


• Molecule 42: Tubulin alpha-1A chain

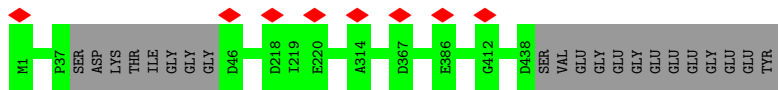


• Molecule 42: Tubulin alpha-1A chain

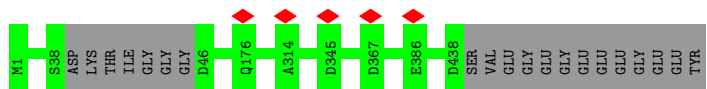




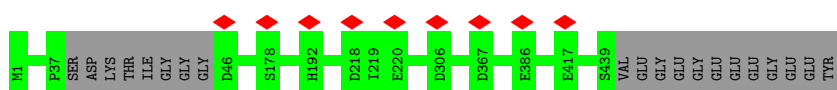
• Molecule 42: Tubulin alpha-1A chain



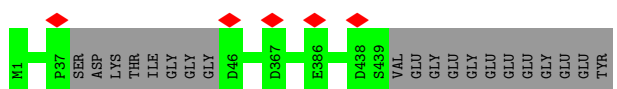
• Molecule 42: Tubulin alpha-1A chain



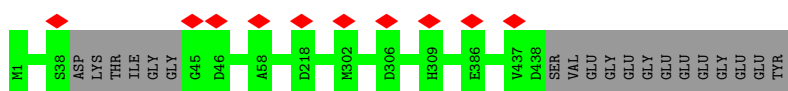
• Molecule 42: Tubulin alpha-1A chain



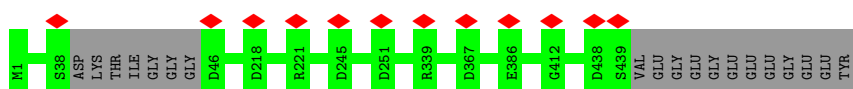
• Molecule 42: Tubulin alpha-1A chain



• Molecule 42: Tubulin alpha-1A chain

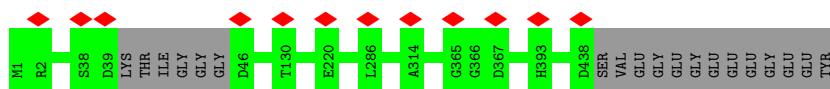


• Molecule 42: Tubulin alpha-1A chain



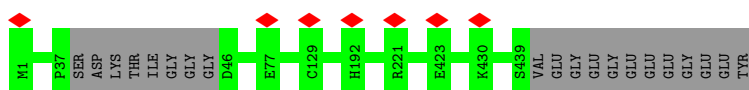
• Molecule 42: Tubulin alpha-1A chain

Chain UY:  96%



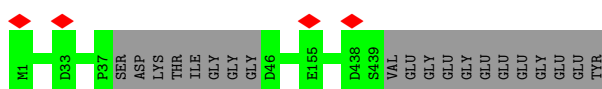
- Molecule 42: Tubulin alpha-1A chain

Chain VC:  96%



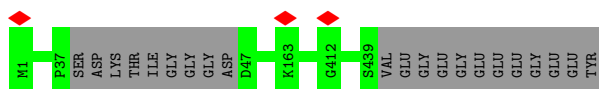
- Molecule 42: Tubulin alpha-1A chain

Chain VE:  96%



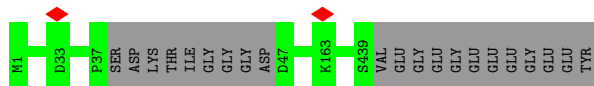
- Molecule 42: Tubulin alpha-1A chain

Chain VG:  95% 5%



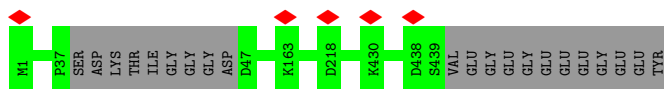
- Molecule 42: Tubulin alpha-1A chain

Chain VI:  95% 5%



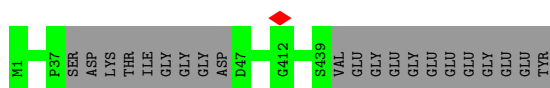
- Molecule 42: Tubulin alpha-1A chain

Chain VK:  95% 5%

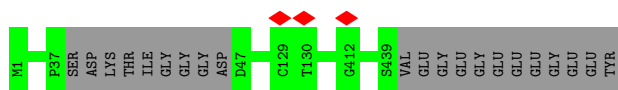


- Molecule 42: Tubulin alpha-1A chain

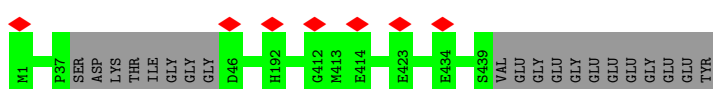
Chain VM:  95% 5%



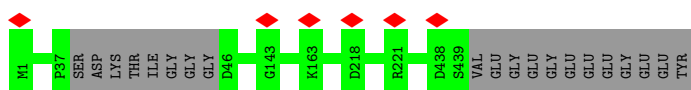
• Molecule 42: Tubulin alpha-1A chain



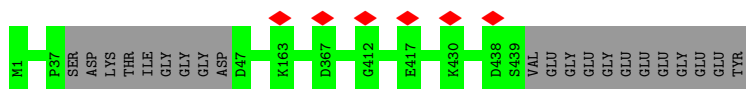
• Molecule 42: Tubulin alpha-1A chain



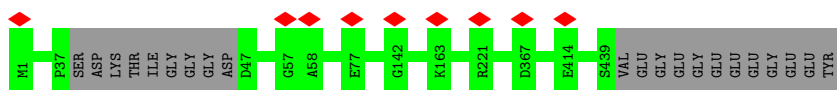
• Molecule 42: Tubulin alpha-1A chain



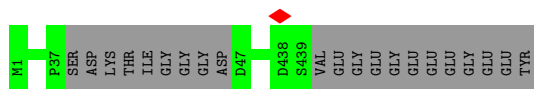
• Molecule 42: Tubulin alpha-1A chain



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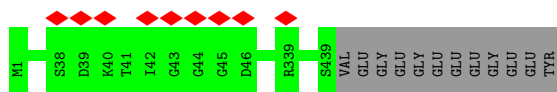


• Molecule 42: Tubulin alpha-1A chain

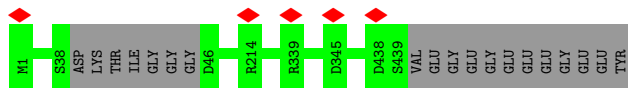


• Molecule 42: Tubulin alpha-1A chain

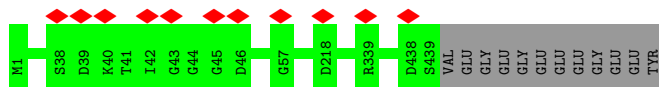




- Molecule 42: Tubulin alpha-1A chain



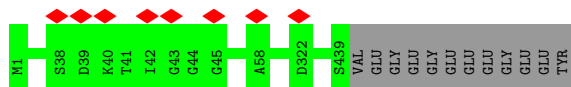
- Molecule 42: Tubulin alpha-1A chain



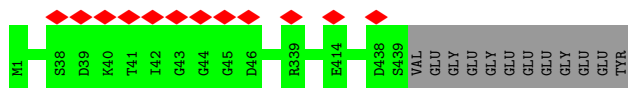
- Molecule 42: Tubulin alpha-1A chain



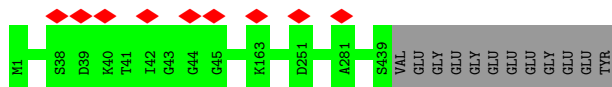
- Molecule 42: Tubulin alpha-1A chain



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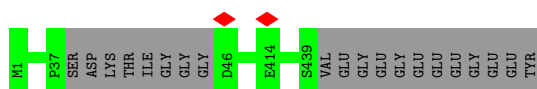


- Molecule 42: Tubulin alpha-1A chain



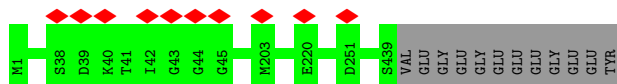
- Molecule 42: Tubulin alpha-1A chain

Chain WO:  96%



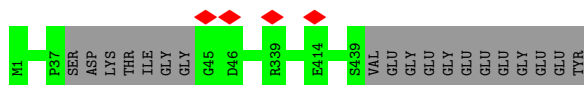
- Molecule 42: Tubulin alpha-1A chain

Chain WQ:  97%



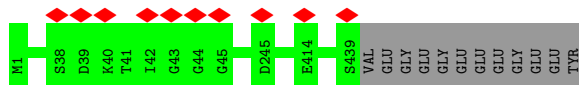
- Molecule 42: Tubulin alpha-1A chain

Chain WS:  96%



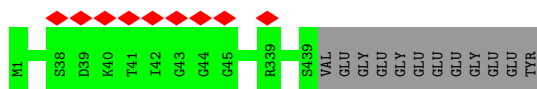
- Molecule 42: Tubulin alpha-1A chain

Chain WU:  97%



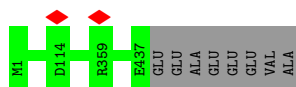
- Molecule 42: Tubulin alpha-1A chain

Chain WW:  97%



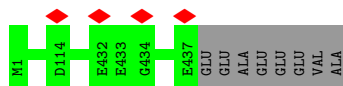
- Molecule 43: Tubulin beta-4B chain

Chain AB:  98%



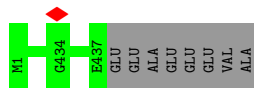
- Molecule 43: Tubulin beta-4B chain

Chain AD:  98%



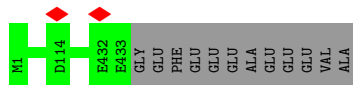
- Molecule 43: Tubulin beta-4B chain

Chain AF:  98%



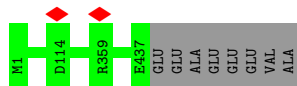
- Molecule 43: Tubulin beta-4B chain

Chain AH:  97%



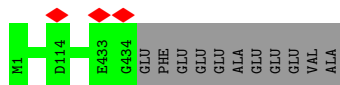
- Molecule 43: Tubulin beta-4B chain

Chain AJ:  98%



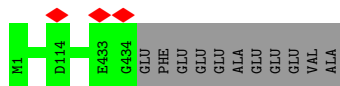
- Molecule 43: Tubulin beta-4B chain

Chain AL:  98%



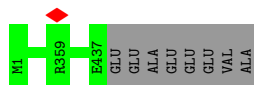
- Molecule 43: Tubulin beta-4B chain

Chain AN:  98%



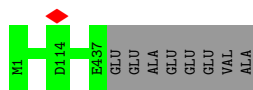
- Molecule 43: Tubulin beta-4B chain

Chain AP:  98%



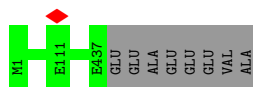
- Molecule 43: Tubulin beta-4B chain

Chain AR:  98%



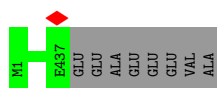
- Molecule 43: Tubulin beta-4B chain

Chain AT: 98%



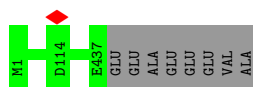
- Molecule 43: Tubulin beta-4B chain

Chain AV: 98%



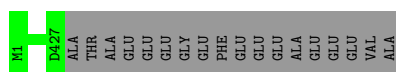
- Molecule 43: Tubulin beta-4B chain

Chain AX: 98%



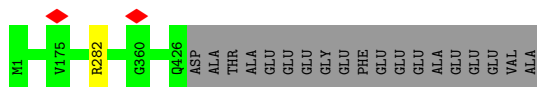
- Molecule 43: Tubulin beta-4B chain

Chain BB: 96%



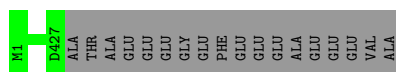
- Molecule 43: Tubulin beta-4B chain

Chain BD: 96%



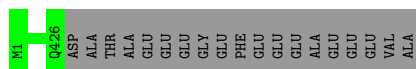
- Molecule 43: Tubulin beta-4B chain

Chain BF: 96%

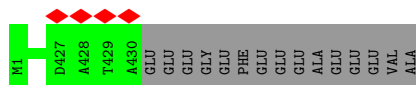


- Molecule 43: Tubulin beta-4B chain

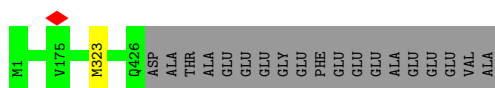
Chain BH: 96%



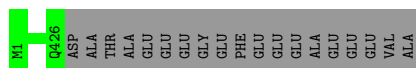
- Molecule 43: Tubulin beta-4B chain



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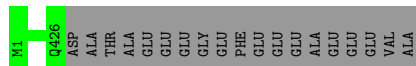
- Molecule 43: Tubulin beta-4B chain



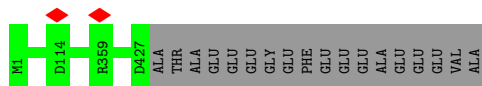
- Molecule 43: Tubulin beta-4B chain



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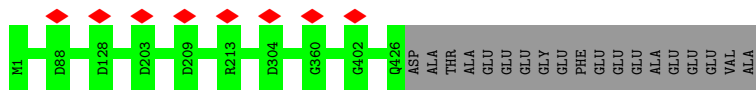


- Molecule 43: Tubulin beta-4B chain

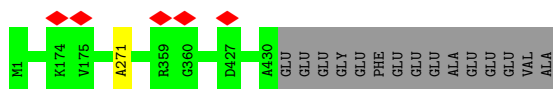


- Molecule 43: Tubulin beta-4B chain

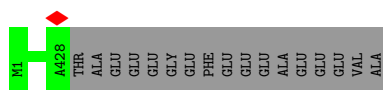




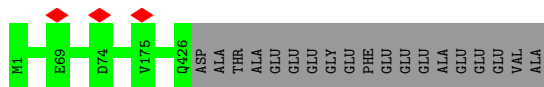
- Molecule 43: Tubulin beta-4B chain



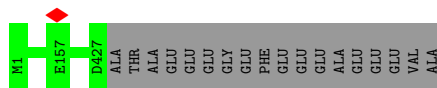
- Molecule 43: Tubulin beta-4B chain



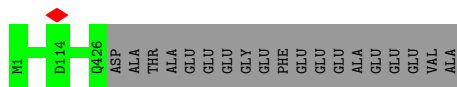
- Molecule 43: Tubulin beta-4B chain



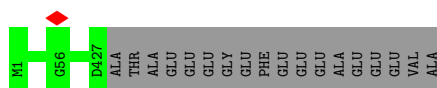
- Molecule 43: Tubulin beta-4B chain



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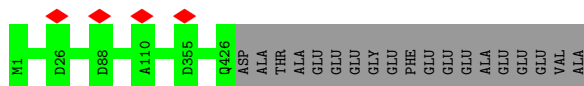
- Molecule 43: Tubulin beta-4B chain

Chain CL:  96%



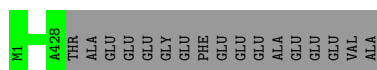
- Molecule 43: Tubulin beta-4B chain

Chain CN:  96%



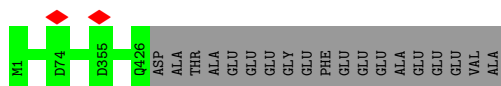
- Molecule 43: Tubulin beta-4B chain

Chain CP:  96%



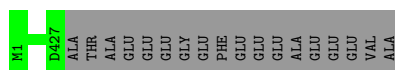
- Molecule 43: Tubulin beta-4B chain

Chain CR:  96%



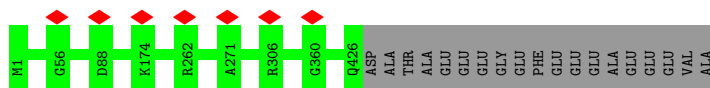
- Molecule 43: Tubulin beta-4B chain

Chain CT:  96%



- Molecule 43: Tubulin beta-4B chain

Chain CV:  96%



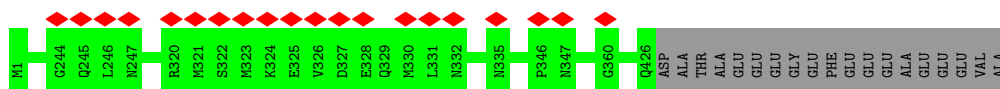
- Molecule 43: Tubulin beta-4B chain

Chain CX:  96%



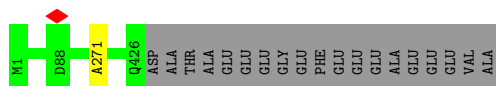
- Molecule 43: Tubulin beta-4B chain

Chain CZ:  96%



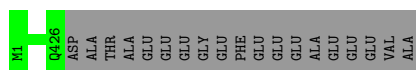
- Molecule 43: Tubulin beta-4B chain

Chain DB:  96%



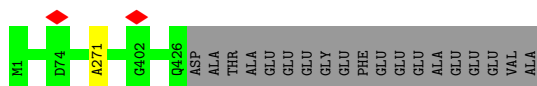
- Molecule 43: Tubulin beta-4B chain

Chain DD:  96%



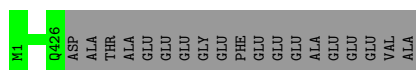
- Molecule 43: Tubulin beta-4B chain

Chain DF:  96%



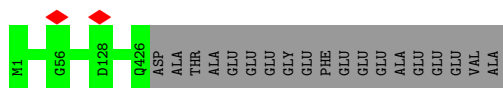
- Molecule 43: Tubulin beta-4B chain

Chain DH:  96%



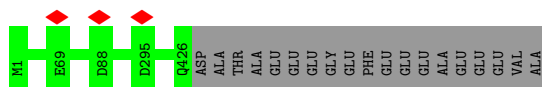
- Molecule 43: Tubulin beta-4B chain

Chain DJ:  96%



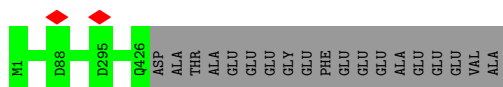
- Molecule 43: Tubulin beta-4B chain

Chain DL:  96%



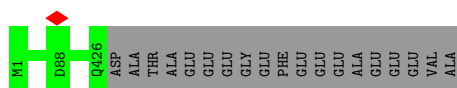
- Molecule 43: Tubulin beta-4B chain

Chain DN:  96%



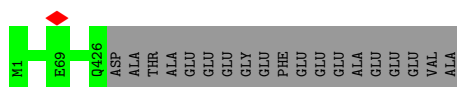
- Molecule 43: Tubulin beta-4B chain

Chain DP:  96%



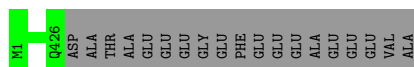
- Molecule 43: Tubulin beta-4B chain

Chain DR:  96%



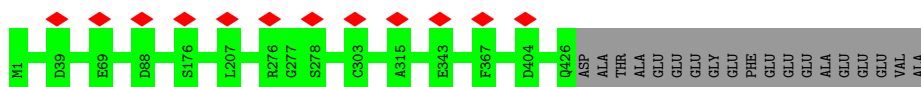
- Molecule 43: Tubulin beta-4B chain

Chain DT:  96%



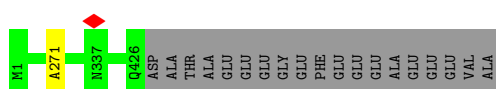
- Molecule 43: Tubulin beta-4B chain

Chain DV:  96%



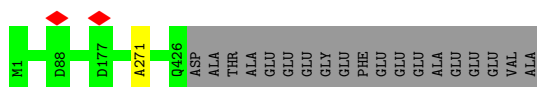
- Molecule 43: Tubulin beta-4B chain

Chain DX:  96%

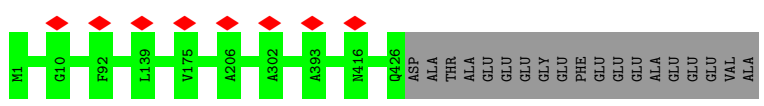


- Molecule 43: Tubulin beta-4B chain

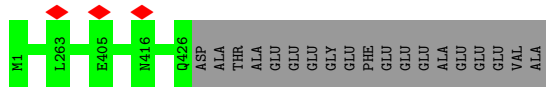
Chain DZ:  96%



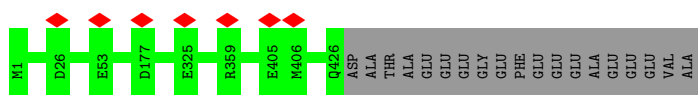
- Molecule 43: Tubulin beta-4B chain



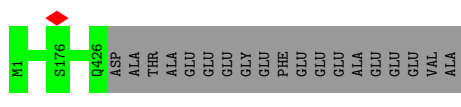
• Molecule 43: Tubulin beta-4B chain



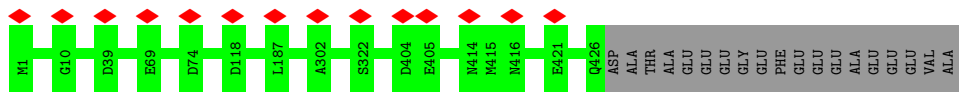
• Molecule 43: Tubulin beta-4B chain



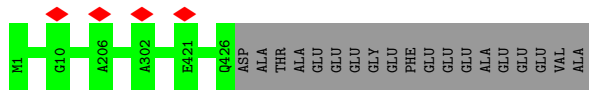
• Molecule 43: Tubulin beta-4B chain



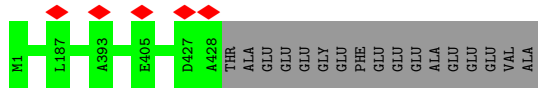
• Molecule 43: Tubulin beta-4B chain



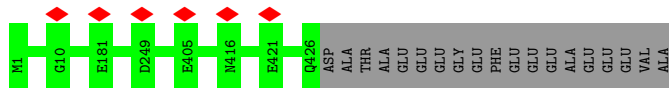
• Molecule 43: Tubulin beta-4B chain



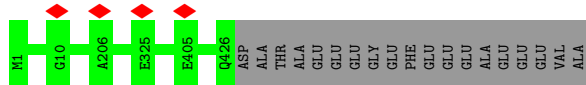
• Molecule 43: Tubulin beta-4B chain



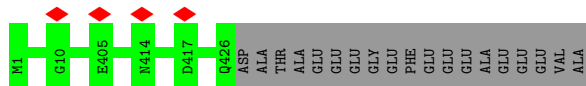
• Molecule 43: Tubulin beta-4B chain



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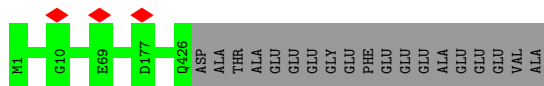
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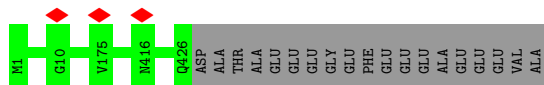
• Molecule 43: Tubulin beta-4B chain



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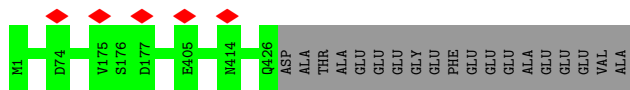


• Molecule 43: Tubulin beta-4B chain

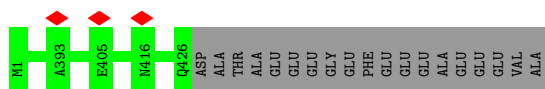


• Molecule 43: Tubulin beta-4B chain

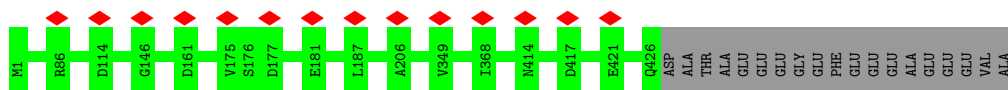




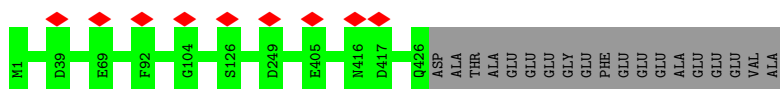
• Molecule 43: Tubulin beta-4B chain



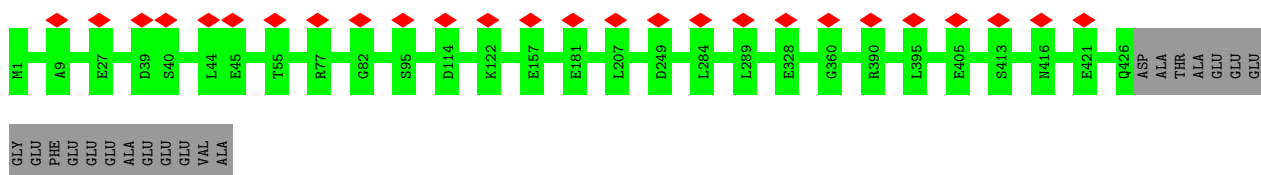
• Molecule 43: Tubulin beta-4B chain



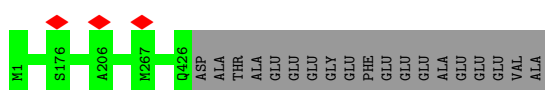
• Molecule 43: Tubulin beta-4B chain



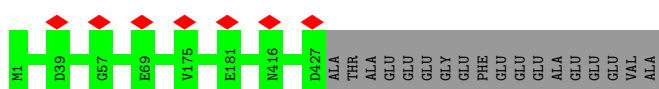
• Molecule 43: Tubulin beta-4B chain



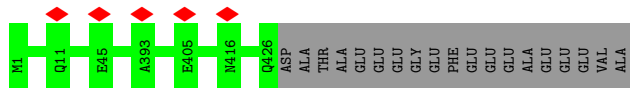
• Molecule 43: Tubulin beta-4B chain



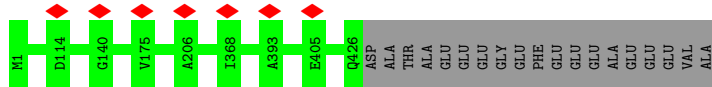
• Molecule 43: Tubulin beta-4B chain



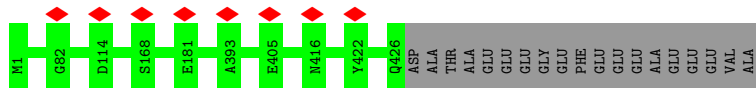
• Molecule 43: Tubulin beta-4B chain



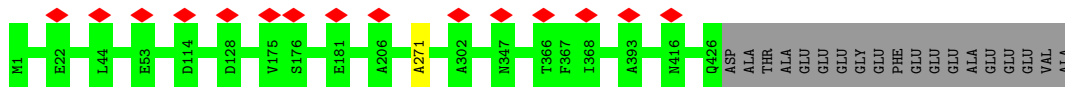
• Molecule 43: Tubulin beta-4B chain



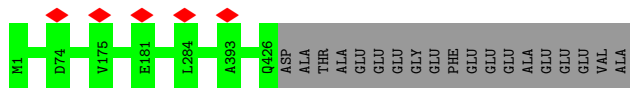
• Molecule 43: Tubulin beta-4B chain



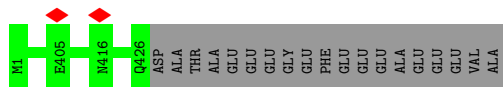
• Molecule 43: Tubulin beta-4B chain



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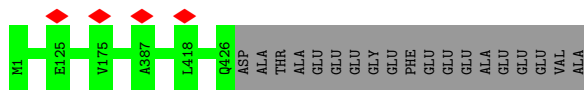


• Molecule 43: Tubulin beta-4B chain



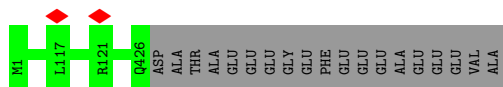
• Molecule 43: Tubulin beta-4B chain





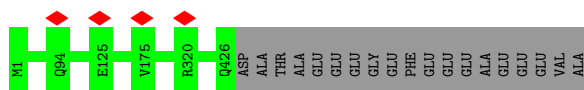
- Molecule 43: Tubulin beta-4B chain

Chain GD: 96%



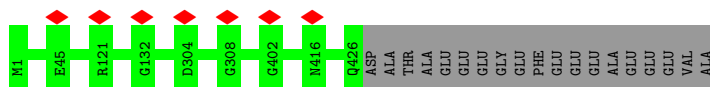
- Molecule 43: Tubulin beta-4B chain

Chain GF: 96%



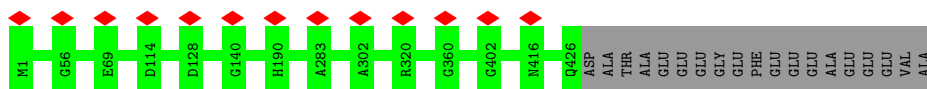
- Molecule 43: Tubulin beta-4B chain

Chain GH: 96%



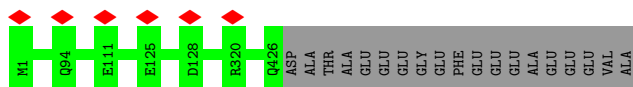
- Molecule 43: Tubulin beta-4B chain

Chain GJ: 96%



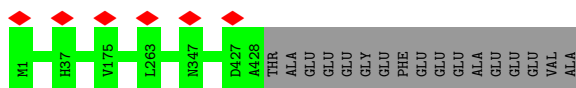
- Molecule 43: Tubulin beta-4B chain

Chain GL: 96%



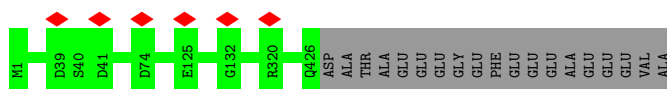
- Molecule 43: Tubulin beta-4B chain

Chain GN: 96%



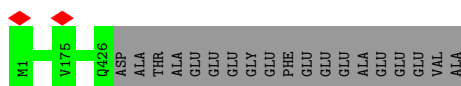
- Molecule 43: Tubulin beta-4B chain

Chain GP:  96%



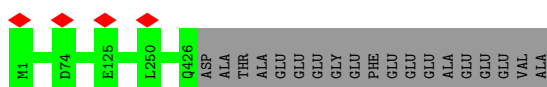
- Molecule 43: Tubulin beta-4B chain

Chain GR:  96%



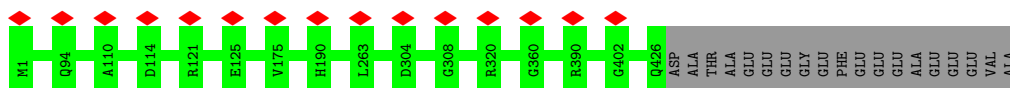
- Molecule 43: Tubulin beta-4B chain

Chain GT:  96%



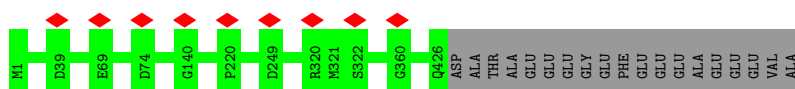
- Molecule 43: Tubulin beta-4B chain

Chain GV:  96%



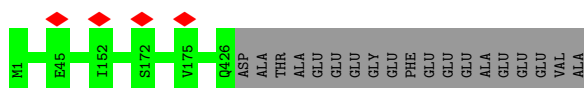
- Molecule 43: Tubulin beta-4B chain

Chain GX:  96%



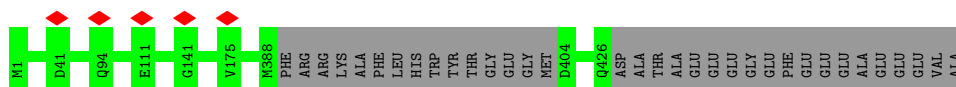
- Molecule 43: Tubulin beta-4B chain

Chain GZ:  96%



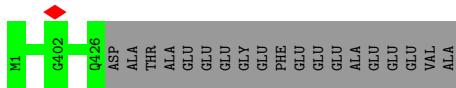
- Molecule 43: Tubulin beta-4B chain

Chain HB:  92% 8%



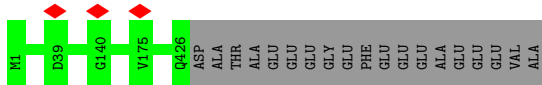
- Molecule 43: Tubulin beta-4B chain

Chain HD:  96%



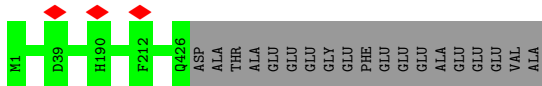
- Molecule 43: Tubulin beta-4B chain

Chain HF:  96%



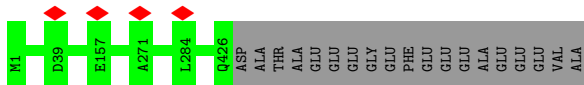
- Molecule 43: Tubulin beta-4B chain

Chain HH:  96%



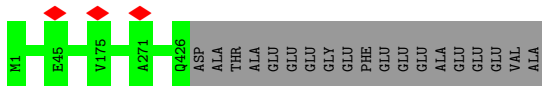
- Molecule 43: Tubulin beta-4B chain

Chain HJ:  96%



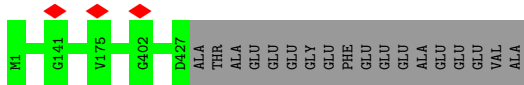
- Molecule 43: Tubulin beta-4B chain

Chain HL:  96%



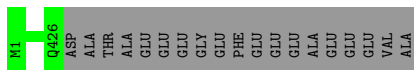
- Molecule 43: Tubulin beta-4B chain

Chain HN:  96%

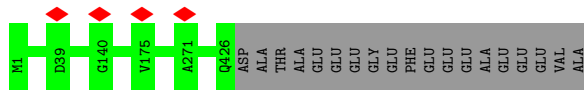


- Molecule 43: Tubulin beta-4B chain

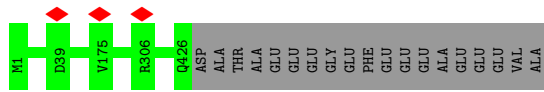
Chain HP:  96%



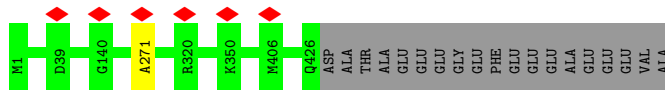
• Molecule 43: Tubulin beta-4B chain



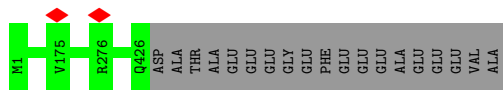
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain



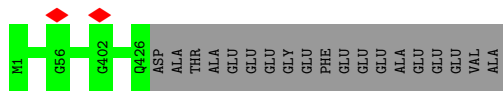
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

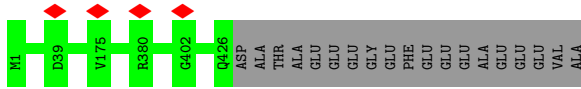


• Molecule 43: Tubulin beta-4B chain



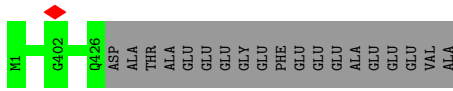
• Molecule 43: Tubulin beta-4B chain





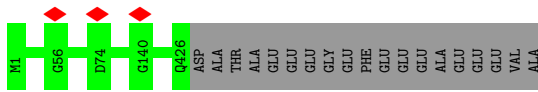
- Molecule 43: Tubulin beta-4B chain

Chain IF: 96%



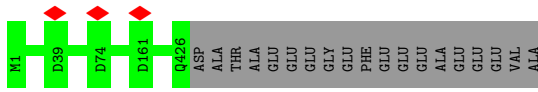
- Molecule 43: Tubulin beta-4B chain

Chain IH: 96%



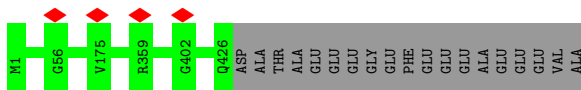
- Molecule 43: Tubulin beta-4B chain

Chain IJ: 96%



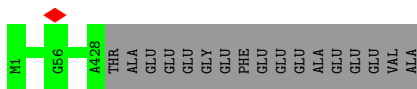
- Molecule 43: Tubulin beta-4B chain

Chain IL: 96%



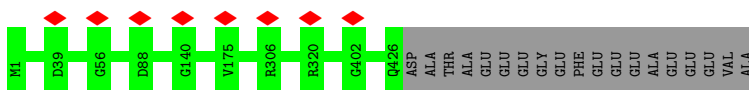
- Molecule 43: Tubulin beta-4B chain

Chain IN: 96%



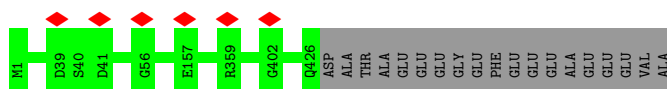
- Molecule 43: Tubulin beta-4B chain

Chain IP: 96%



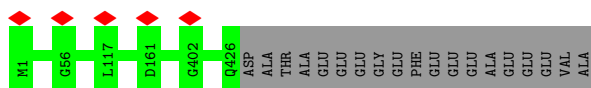
- Molecule 43: Tubulin beta-4B chain

Chain IR:  96%



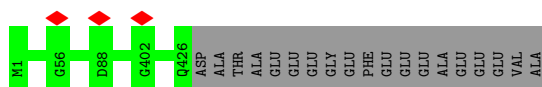
- Molecule 43: Tubulin beta-4B chain

Chain IT:  96%



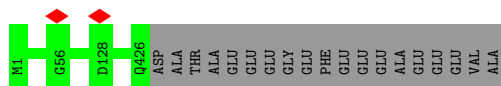
- Molecule 43: Tubulin beta-4B chain

Chain IV:  96%



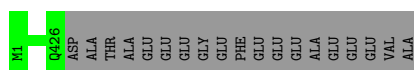
- Molecule 43: Tubulin beta-4B chain

Chain IX:  96%



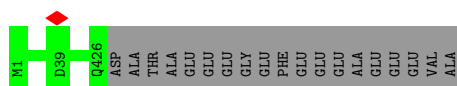
- Molecule 43: Tubulin beta-4B chain

Chain JB:  96%



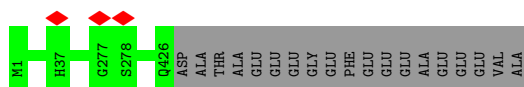
- Molecule 43: Tubulin beta-4B chain

Chain JD:  96%



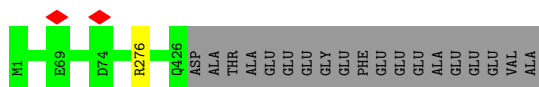
- Molecule 43: Tubulin beta-4B chain

Chain JF:  96%



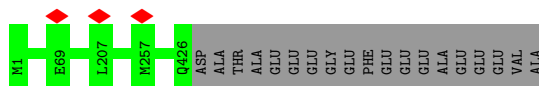
- Molecule 43: Tubulin beta-4B chain

Chain JH:  96%



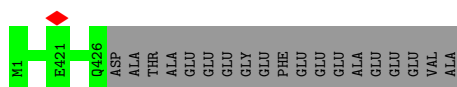
• Molecule 43: Tubulin beta-4B chain

Chain JJ:  96%



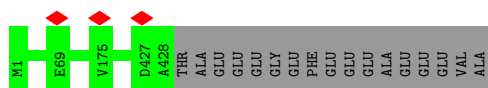
• Molecule 43: Tubulin beta-4B chain

Chain JL:  96%



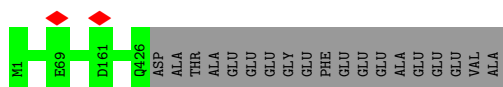
• Molecule 43: Tubulin beta-4B chain

Chain JN:  96%



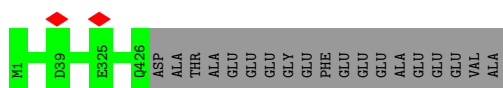
• Molecule 43: Tubulin beta-4B chain

Chain JP:  96%



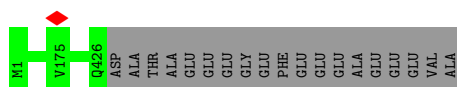
• Molecule 43: Tubulin beta-4B chain

Chain JR:  96%

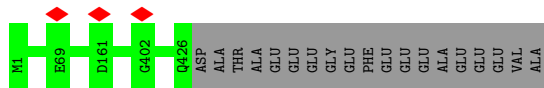


• Molecule 43: Tubulin beta-4B chain

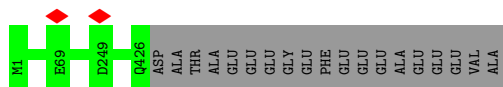
Chain JT:  96%



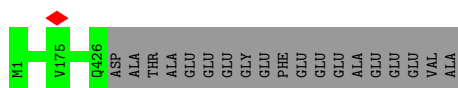
• Molecule 43: Tubulin beta-4B chain



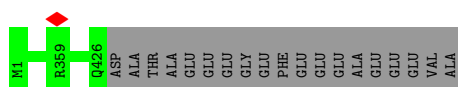
• Molecule 43: Tubulin beta-4B chain



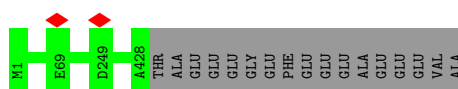
• Molecule 43: Tubulin beta-4B chain



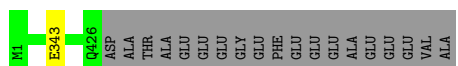
• Molecule 43: Tubulin beta-4B chain



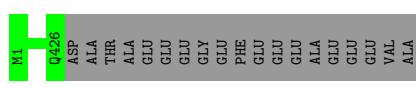
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

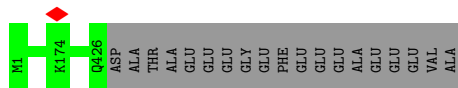


• Molecule 43: Tubulin beta-4B chain



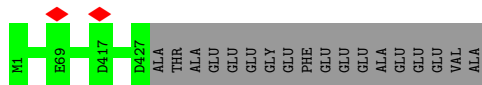
- Molecule 43: Tubulin beta-4B chain

Chain KJ:  96%



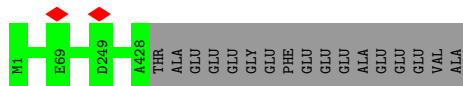
- Molecule 43: Tubulin beta-4B chain

Chain KL:  96%



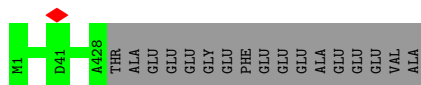
- Molecule 43: Tubulin beta-4B chain

Chain KN:  96%



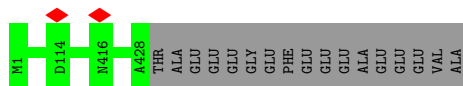
- Molecule 43: Tubulin beta-4B chain

Chain KP:  96%



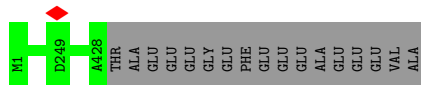
- Molecule 43: Tubulin beta-4B chain

Chain KR:  96%



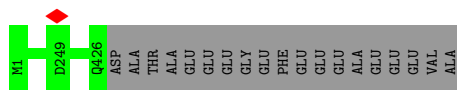
- Molecule 43: Tubulin beta-4B chain

Chain KT:  96%



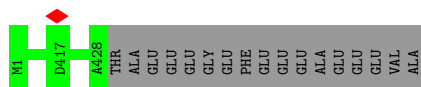
- Molecule 43: Tubulin beta-4B chain

Chain KV:  96%



- Molecule 43: Tubulin beta-4B chain

Chain KX: 96%



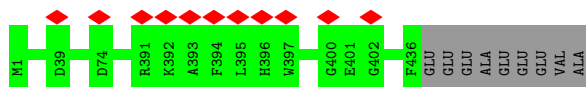
- Molecule 43: Tubulin beta-4B chain

Chain KZ: 96%



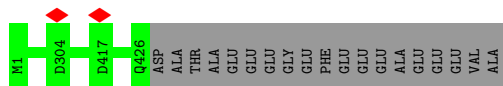
- Molecule 43: Tubulin beta-4B chain

Chain LB: 98%



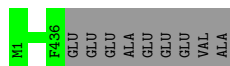
- Molecule 43: Tubulin beta-4B chain

Chain LD: 96%



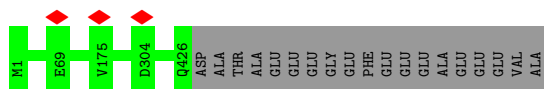
- Molecule 43: Tubulin beta-4B chain

Chain LF: 98%



- Molecule 43: Tubulin beta-4B chain

Chain LH: 96%



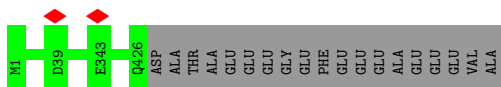
- Molecule 43: Tubulin beta-4B chain

Chain LJ: 98%



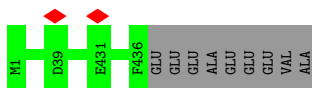
- Molecule 43: Tubulin beta-4B chain

Chain LL: 96%



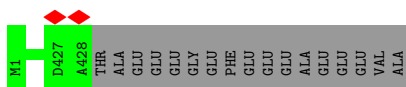
- Molecule 43: Tubulin beta-4B chain

Chain LN: 98%



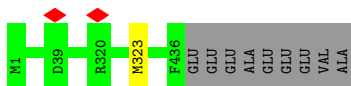
- Molecule 43: Tubulin beta-4B chain

Chain LP: 96%



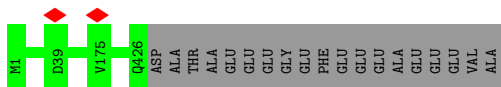
- Molecule 43: Tubulin beta-4B chain

Chain LR: 98%



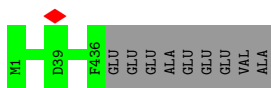
- Molecule 43: Tubulin beta-4B chain

Chain LT: 96%



- Molecule 43: Tubulin beta-4B chain

Chain LV: 98%



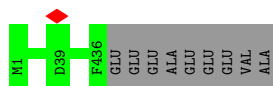
- Molecule 43: Tubulin beta-4B chain

Chain LX:  96%



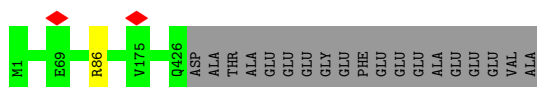
- Molecule 43: Tubulin beta-4B chain

Chain LZ:  98%



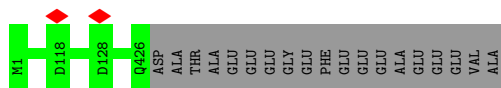
- Molecule 43: Tubulin beta-4B chain

Chain MD:  96%



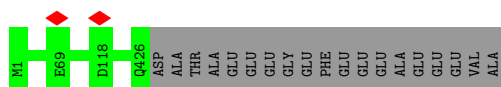
- Molecule 43: Tubulin beta-4B chain

Chain MF:  96%



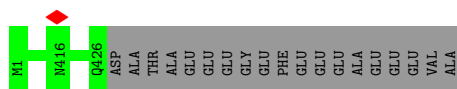
- Molecule 43: Tubulin beta-4B chain

Chain MH:  96%



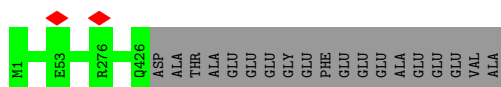
- Molecule 43: Tubulin beta-4B chain

Chain MJ:  96%



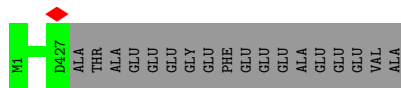
- Molecule 43: Tubulin beta-4B chain

Chain ML:  96%



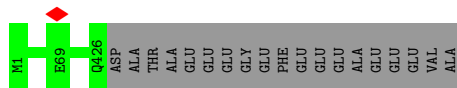
- Molecule 43: Tubulin beta-4B chain

Chain MN:  96%



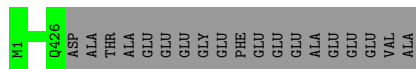
- Molecule 43: Tubulin beta-4B chain

Chain MP:  96%



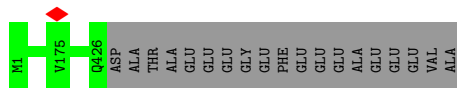
- Molecule 43: Tubulin beta-4B chain

Chain MR:  96%



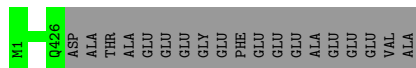
- Molecule 43: Tubulin beta-4B chain

Chain MT:  96%



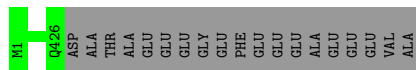
- Molecule 43: Tubulin beta-4B chain

Chain MV:  96%



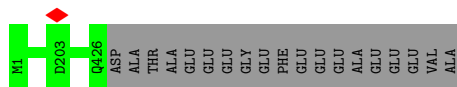
- Molecule 43: Tubulin beta-4B chain

Chain MX:  96%

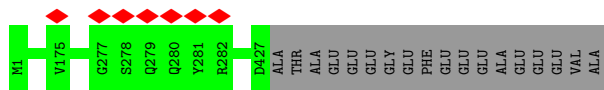


- Molecule 43: Tubulin beta-4B chain

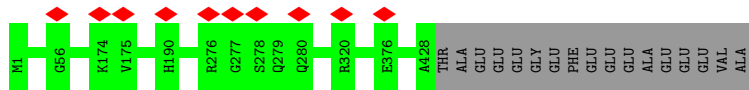
Chain MZ:  96%



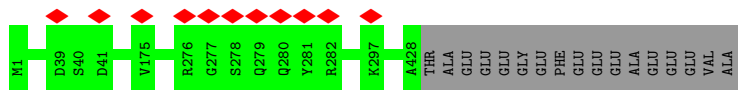
• Molecule 43: Tubulin beta-4B chain



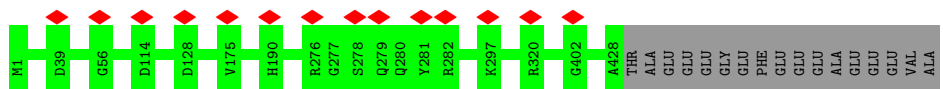
• Molecule 43: Tubulin beta-4B chain



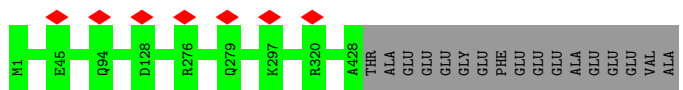
• Molecule 43: Tubulin beta-4B chain



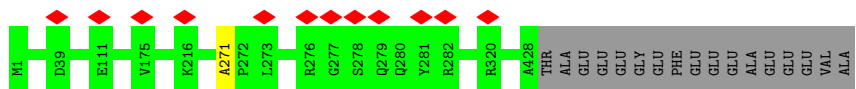
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

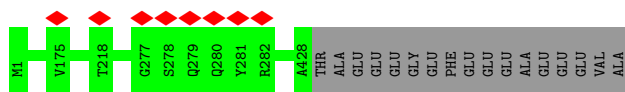


• Molecule 43: Tubulin beta-4B chain



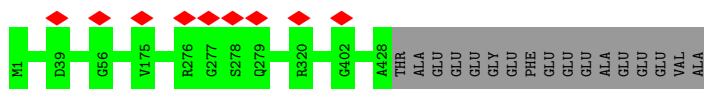
• Molecule 43: Tubulin beta-4B chain





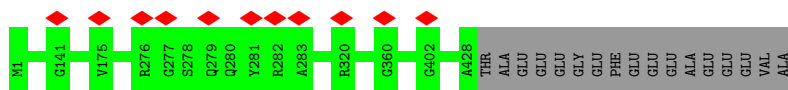
- Molecule 43: Tubulin beta-4B chain

Chain NP: 96%



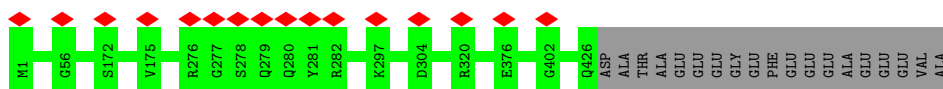
- Molecule 43: Tubulin beta-4B chain

Chain NR: 96%



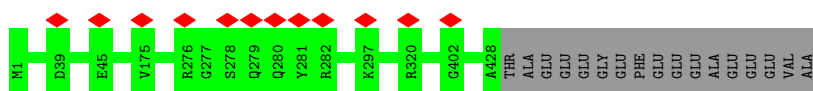
- Molecule 43: Tubulin beta-4B chain

Chain NT: 96%



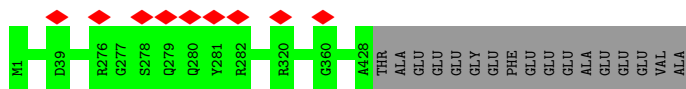
- Molecule 43: Tubulin beta-4B chain

Chain NV: 96%



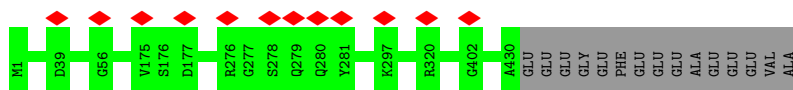
- Molecule 43: Tubulin beta-4B chain

Chain NX: 96%



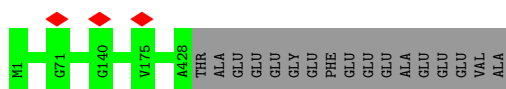
- Molecule 43: Tubulin beta-4B chain

Chain NZ: 97%



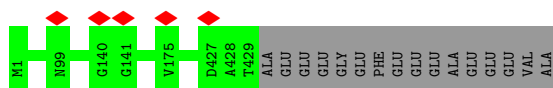
- Molecule 43: Tubulin beta-4B chain

Chain OB:  96%



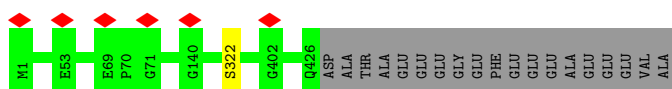
• Molecule 43: Tubulin beta-4B chain

Chain OD:  96%



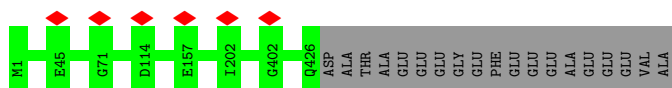
• Molecule 43: Tubulin beta-4B chain

Chain OF:  96%



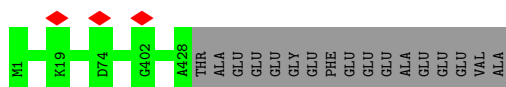
• Molecule 43: Tubulin beta-4B chain

Chain OH:  96%



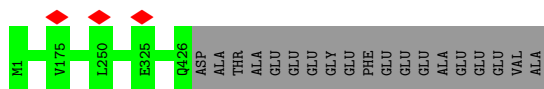
• Molecule 43: Tubulin beta-4B chain

Chain OJ:  96%



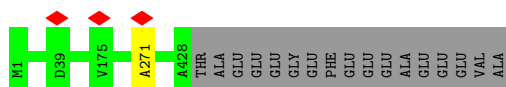
• Molecule 43: Tubulin beta-4B chain

Chain OL:  96%



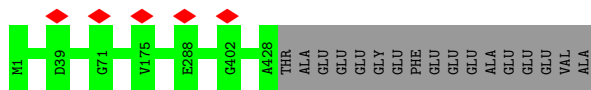
• Molecule 43: Tubulin beta-4B chain

Chain ON:  96%



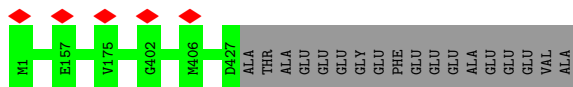
- Molecule 43: Tubulin beta-4B chain

Chain OP:  96%



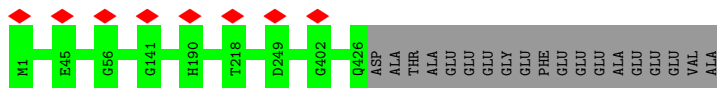
- Molecule 43: Tubulin beta-4B chain

Chain OR:  96%



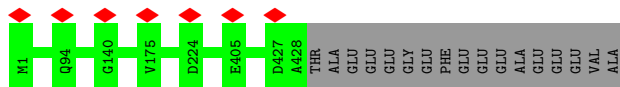
- Molecule 43: Tubulin beta-4B chain

Chain OT:  96%



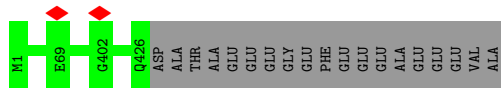
- Molecule 43: Tubulin beta-4B chain

Chain OV:  96%



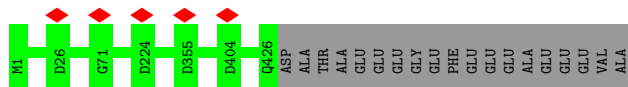
- Molecule 43: Tubulin beta-4B chain

Chain OX:  96%



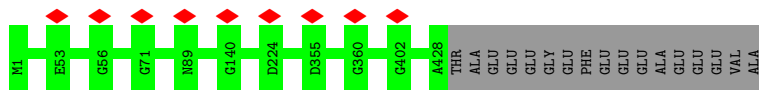
- Molecule 43: Tubulin beta-4B chain

Chain PB:  96%

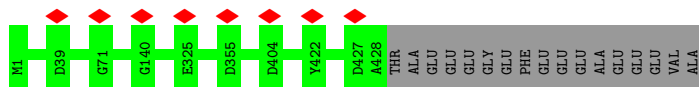


- Molecule 43: Tubulin beta-4B chain

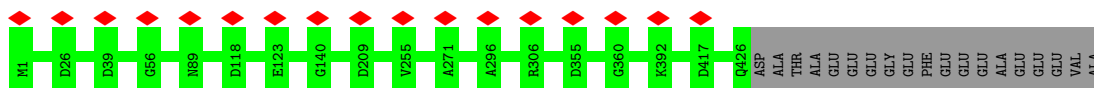
Chain PD:  96%



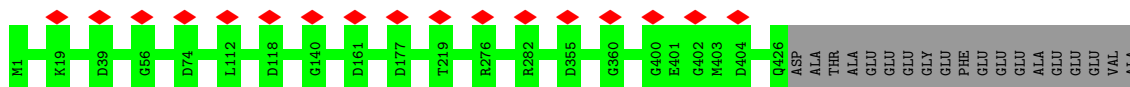
- Molecule 43: Tubulin beta-4B chain



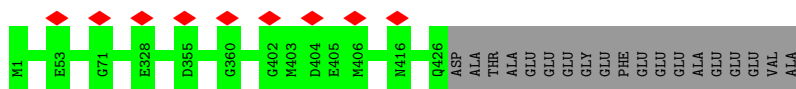
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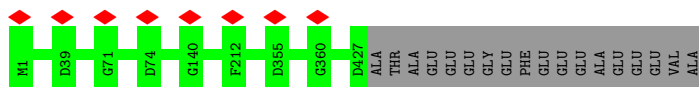
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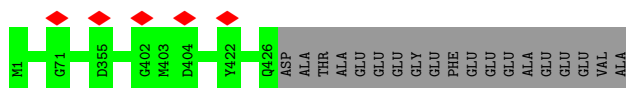
- Molecule 43: Tubulin beta-4B chain



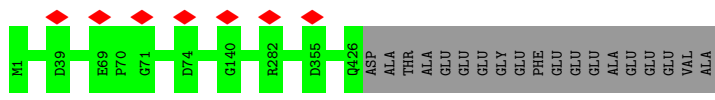
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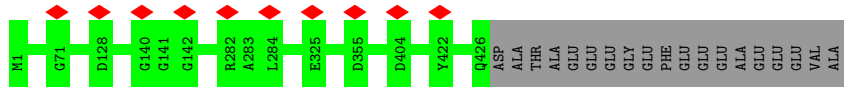
- Molecule 43: Tubulin beta-4B chain



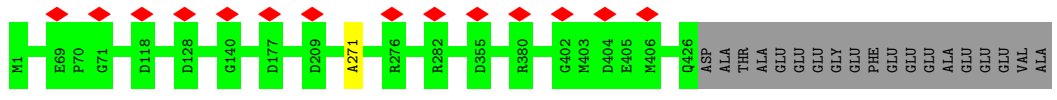
- Molecule 43: Tubulin beta-4B chain



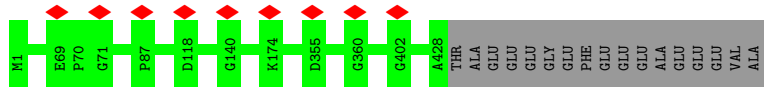
• Molecule 43: Tubulin beta-4B chain



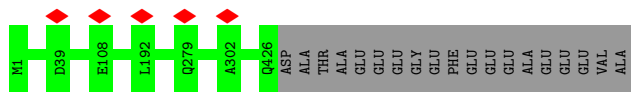
• Molecule 43: Tubulin beta-4B chain



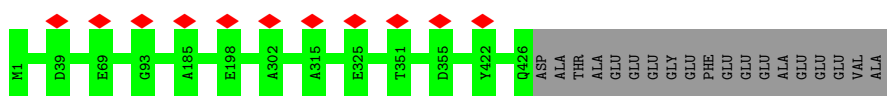
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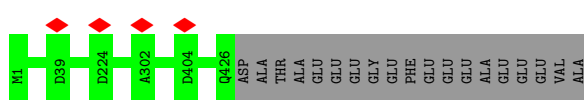
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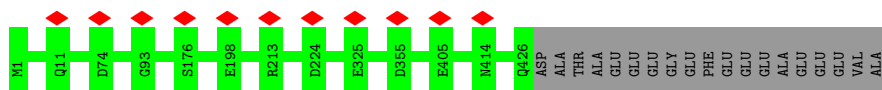
• Molecule 43: Tubulin beta-4B chain



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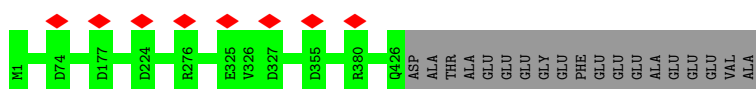
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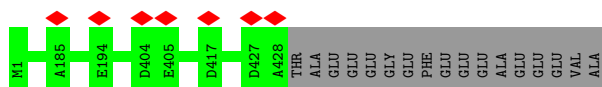
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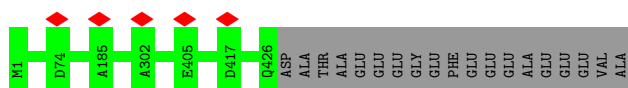
• Molecule 43: Tubulin beta-4B chain



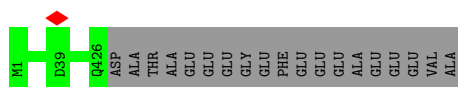
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

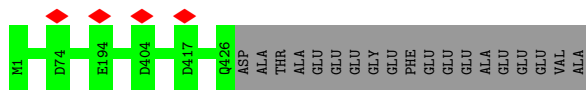


• Molecule 43: Tubulin beta-4B chain



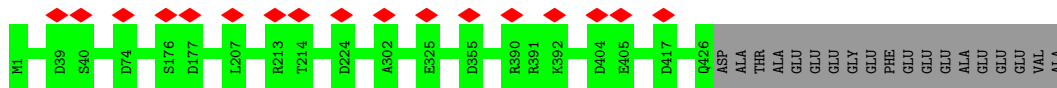
• Molecule 43: Tubulin beta-4B chain





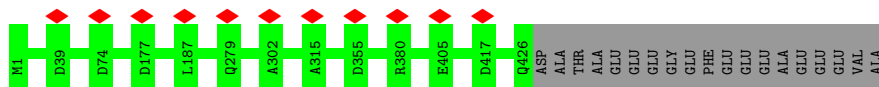
- Molecule 43: Tubulin beta-4B chain

Chain QV: 96%



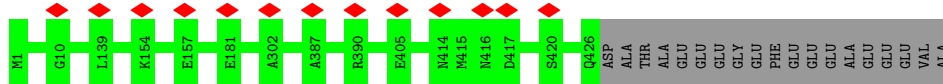
- Molecule 43: Tubulin beta-4B chain

Chain QX: 96%



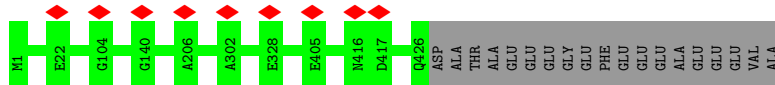
- Molecule 43: Tubulin beta-4B chain

Chain RB: 96%



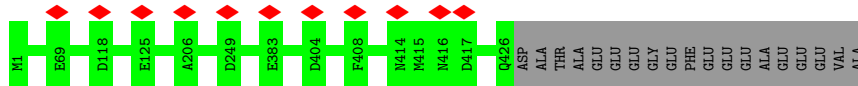
- Molecule 43: Tubulin beta-4B chain

Chain RD: 96%



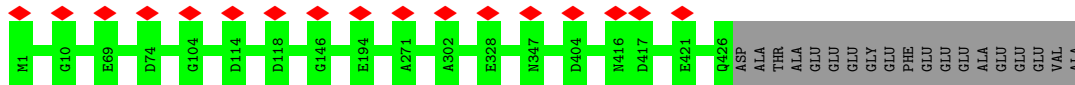
- Molecule 43: Tubulin beta-4B chain

Chain RF: 96%

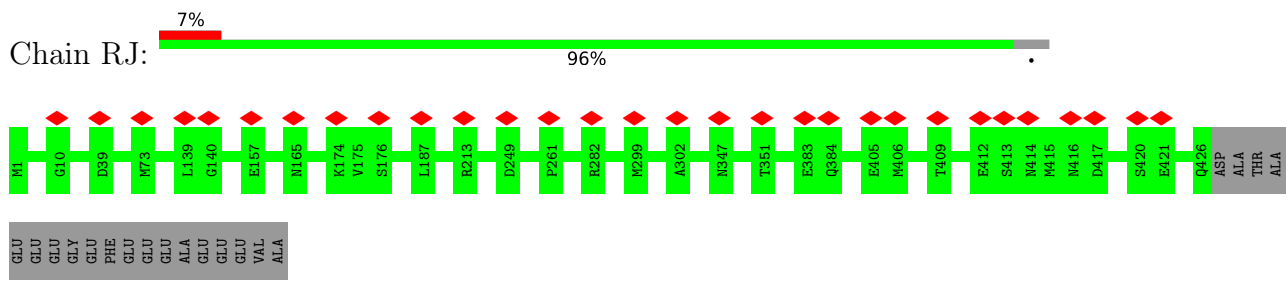


- Molecule 43: Tubulin beta-4B chain

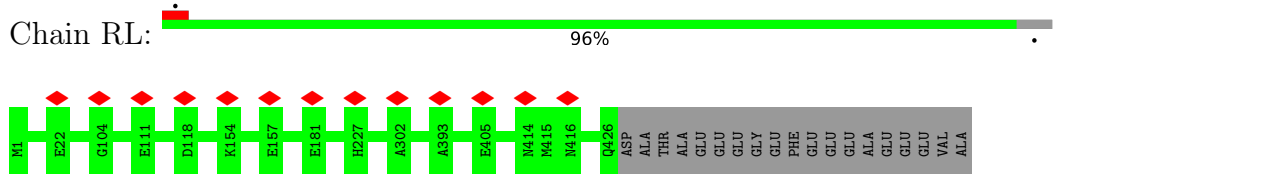
Chain RH: 96%



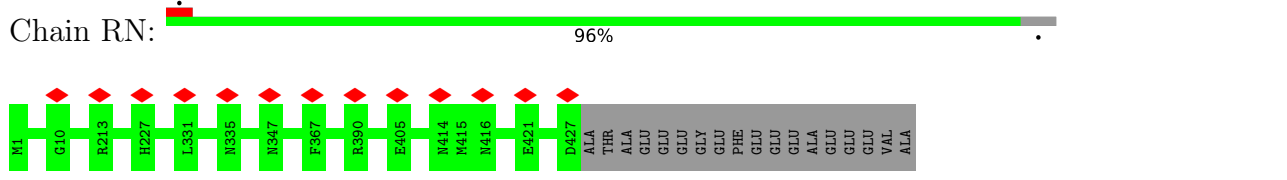
- Molecule 43: Tubulin beta-4B chain



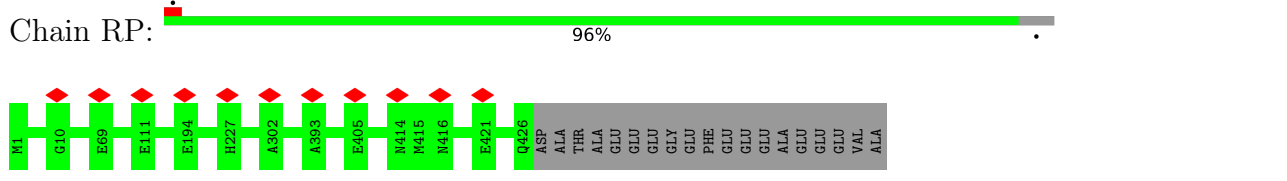
• Molecule 43: Tubulin beta-4B chain



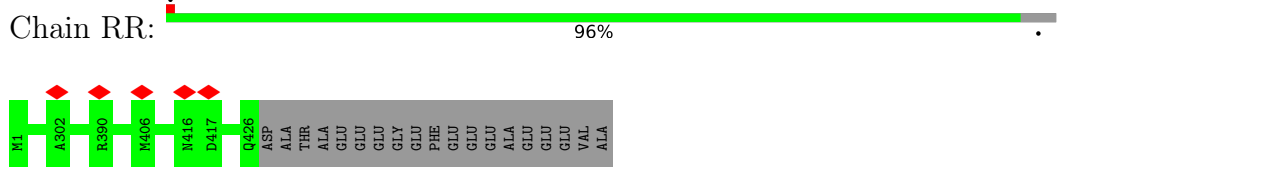
• Molecule 43: Tubulin beta-4B chain



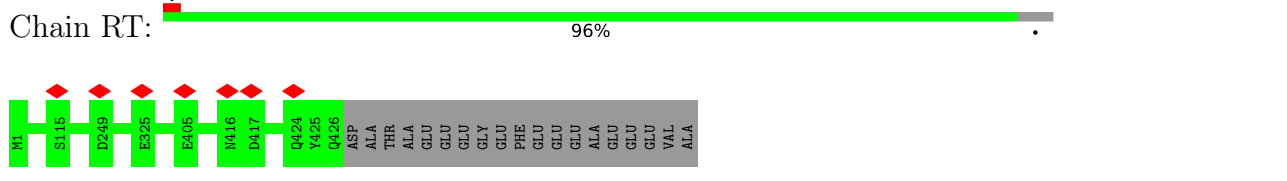
• Molecule 43: Tubulin beta-4B chain



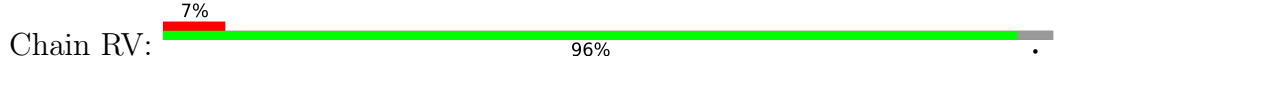
• Molecule 43: Tubulin beta-4B chain

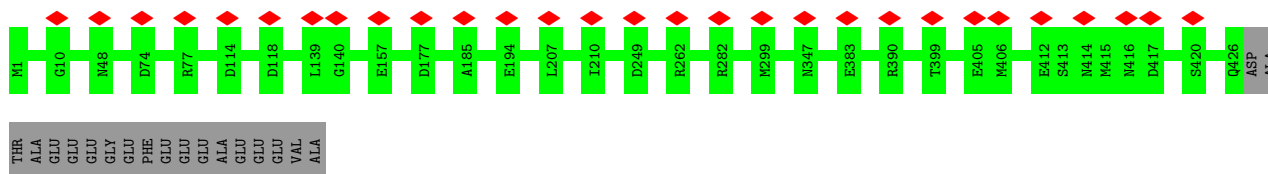


• Molecule 43: Tubulin beta-4B chain



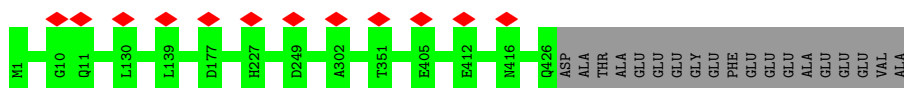
• Molecule 43: Tubulin beta-4B chain





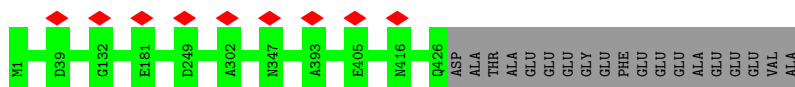
- Molecule 43: Tubulin beta-4B chain

Chain RX: 96%



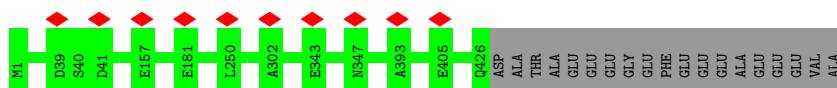
- Molecule 43: Tubulin beta-4B chain

Chain SB: 96%



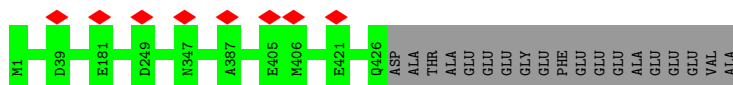
- Molecule 43: Tubulin beta-4B chain

Chain SD: 96%



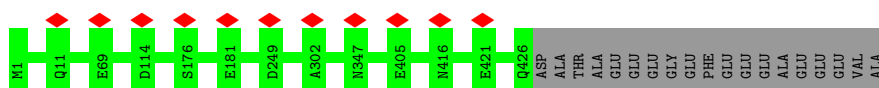
- Molecule 43: Tubulin beta-4B chain

Chain SF: 96%



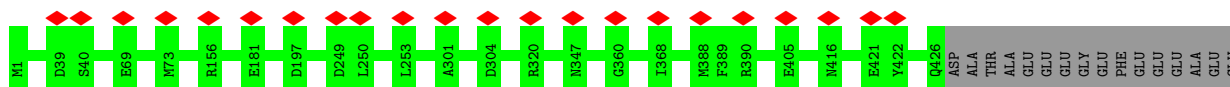
- Molecule 43: Tubulin beta-4B chain

Chain SH: 96%



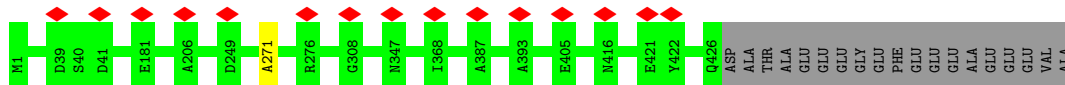
- Molecule 43: Tubulin beta-4B chain

Chain SJ: 5% 96%

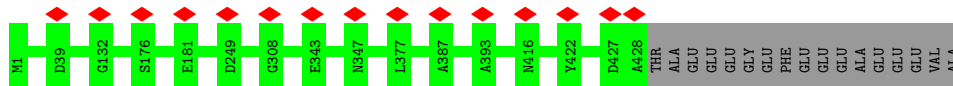


GLU
VAL
ALA

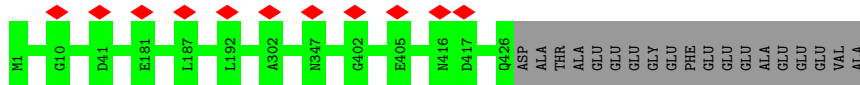
• Molecule 43: Tubulin beta-4B chain



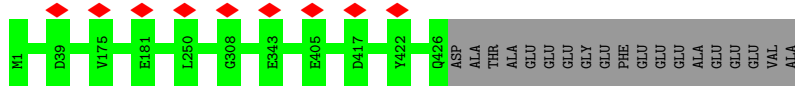
• Molecule 43: Tubulin beta-4B chain



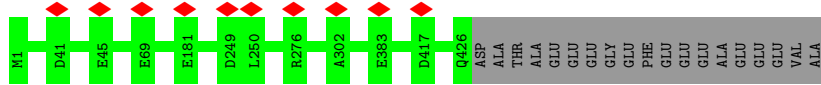
• Molecule 43: Tubulin beta-4B chain



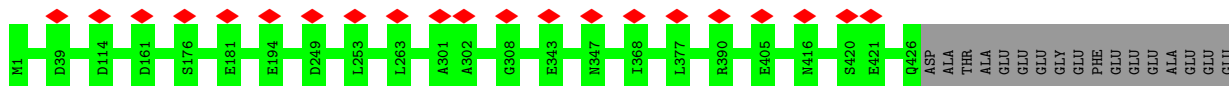
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain



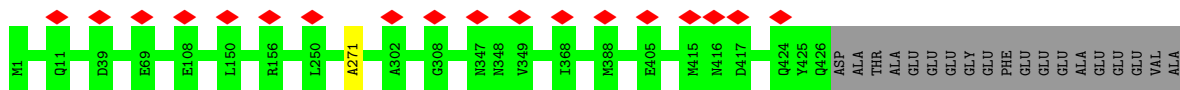
• Molecule 43: Tubulin beta-4B chain



VAL
ALA

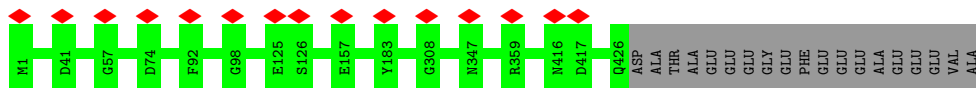
• Molecule 43: Tubulin beta-4B chain

Chain SX:  96%



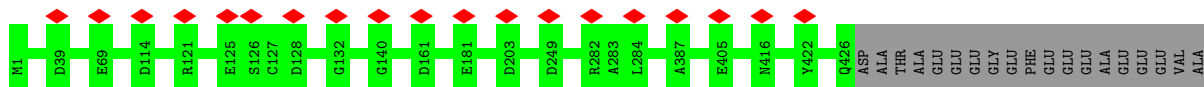
• Molecule 43: Tubulin beta-4B chain

Chain TB:  96%



• Molecule 43: Tubulin beta-4B chain

Chain TD:  96%



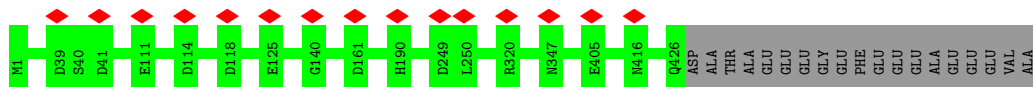
• Molecule 43: Tubulin beta-4B chain

Chain TF:  96%



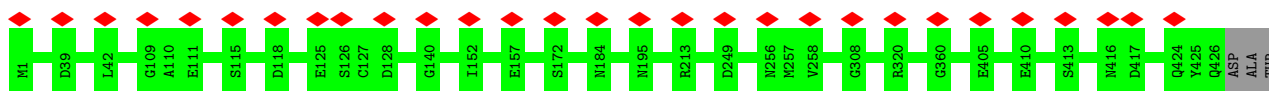
• Molecule 43: Tubulin beta-4B chain

Chain TH:  96%



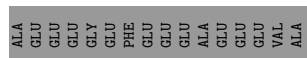
• Molecule 43: Tubulin beta-4B chain

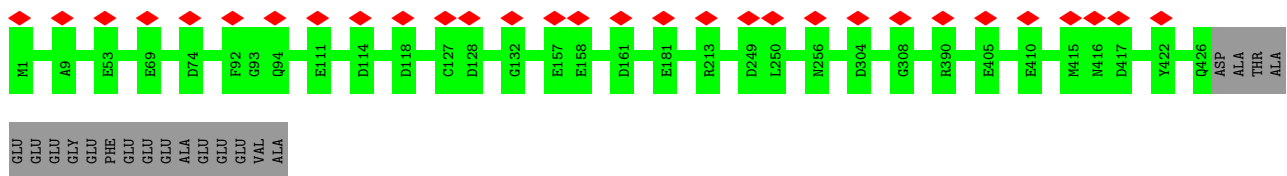
Chain TJ:  96%



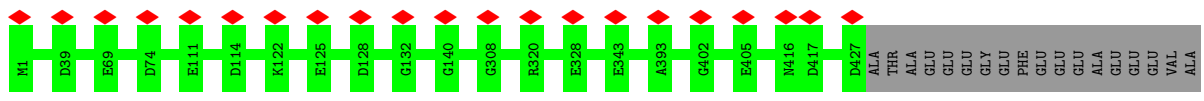
• Molecule 43: Tubulin beta-4B chain

Chain TL:  96%

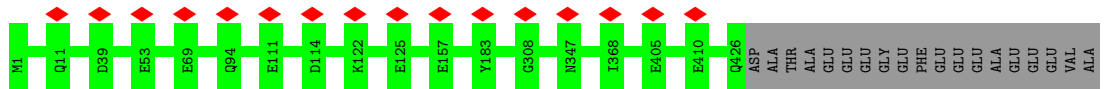




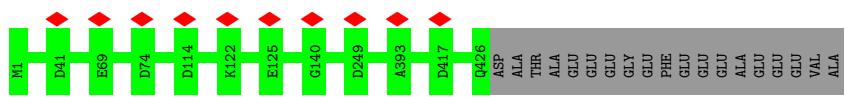
• Molecule 43: Tubulin beta-4B chain



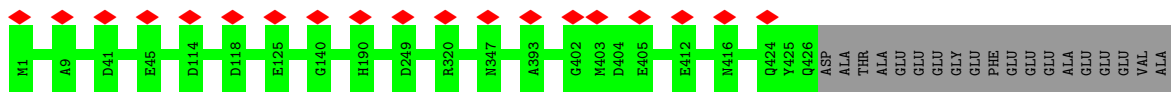
• Molecule 43: Tubulin beta-4B chain



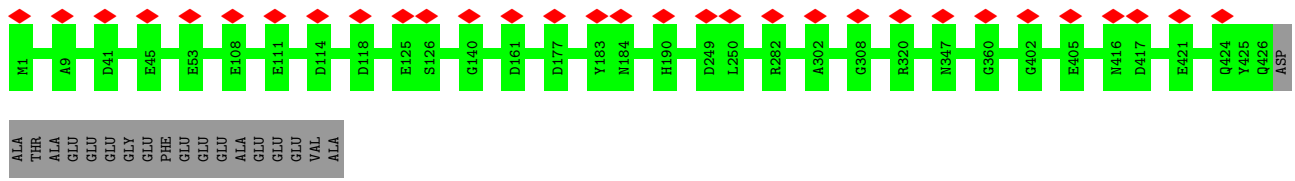
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

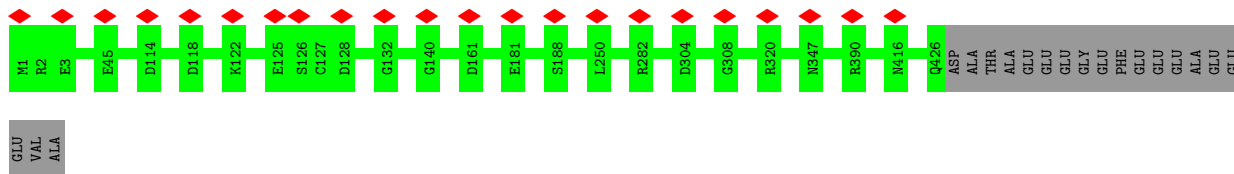


• Molecule 43: Tubulin beta-4B chain

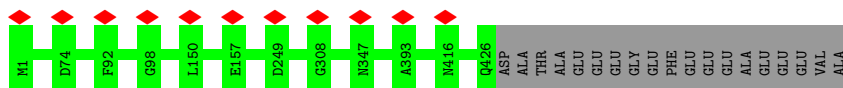


• Molecule 43: Tubulin beta-4B chain





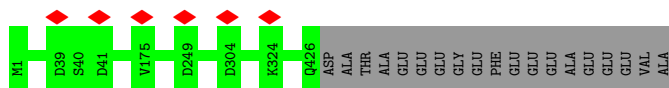
• Molecule 43: Tubulin beta-4B chain



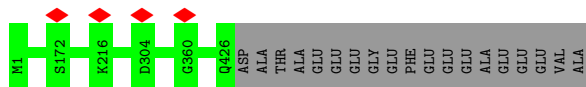
• Molecule 43: Tubulin beta-4B chain



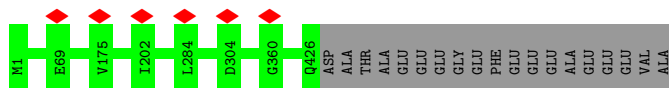
• Molecule 43: Tubulin beta-4B chain



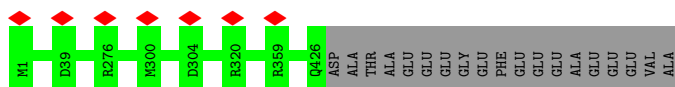
• Molecule 43: Tubulin beta-4B chain



• Molecule 43: Tubulin beta-4B chain

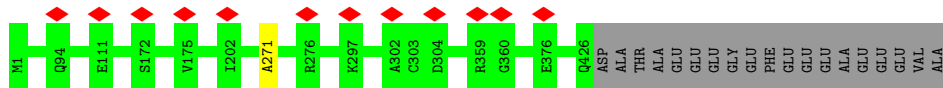


• Molecule 43: Tubulin beta-4B chain



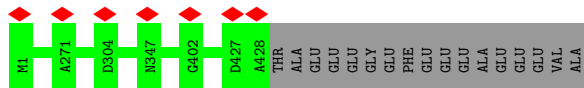
• Molecule 43: Tubulin beta-4B chain

Chain UL:  96%



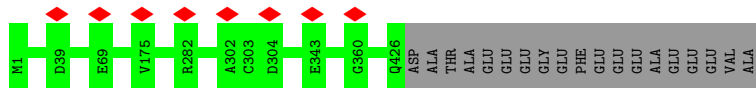
• Molecule 43: Tubulin beta-4B chain

Chain UN:  96%



• Molecule 43: Tubulin beta-4B chain

Chain UP:  96%



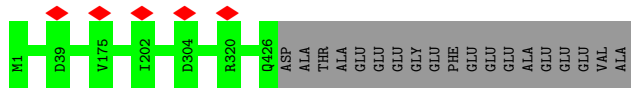
• Molecule 43: Tubulin beta-4B chain

Chain UR:  96%



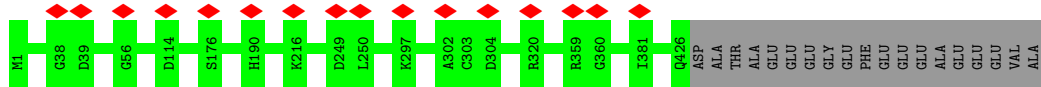
• Molecule 43: Tubulin beta-4B chain

Chain UT:  96%



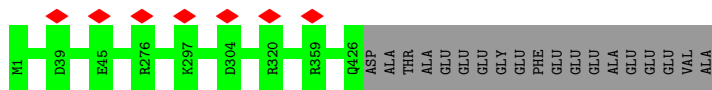
• Molecule 43: Tubulin beta-4B chain

Chain UV:  96%

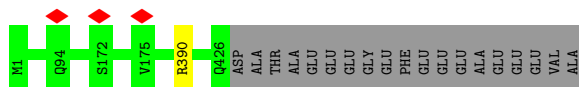


• Molecule 43: Tubulin beta-4B chain

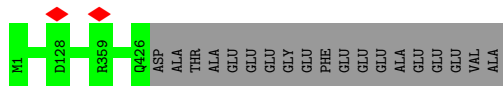
Chain UX:  96%



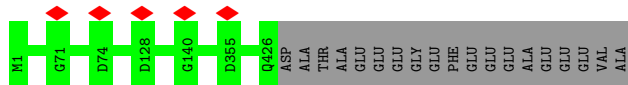
- Molecule 43: Tubulin beta-4B chain



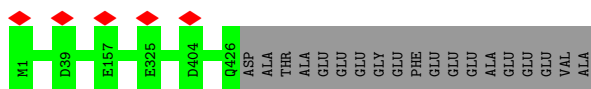
- Molecule 43: Tubulin beta-4B chain



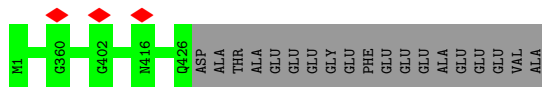
- Molecule 43: Tubulin beta-4B chain



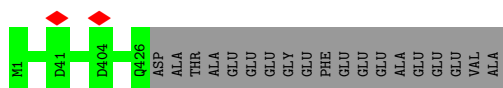
- Molecule 43: Tubulin beta-4B chain



- Molecule 43: Tubulin beta-4B chain

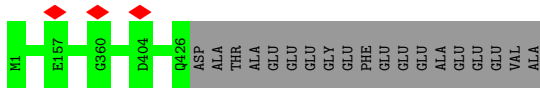


- Molecule 43: Tubulin beta-4B chain



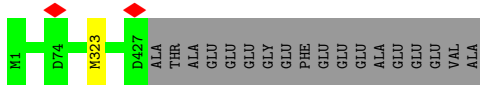
- Molecule 43: Tubulin beta-4B chain

Chain VL:  96%



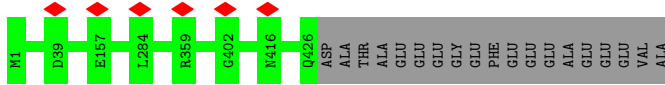
• Molecule 43: Tubulin beta-4B chain

Chain VN:  96%



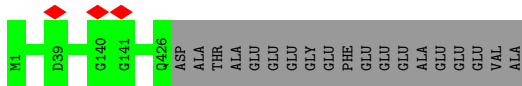
• Molecule 43: Tubulin beta-4B chain

Chain VP:  96%



• Molecule 43: Tubulin beta-4B chain

Chain VR:  96%



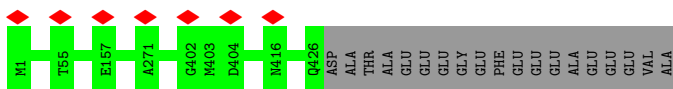
• Molecule 43: Tubulin beta-4B chain

Chain VT:  96%



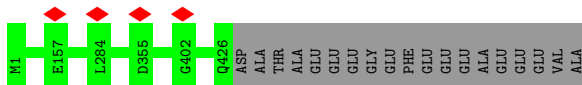
• Molecule 43: Tubulin beta-4B chain

Chain VV:  96%

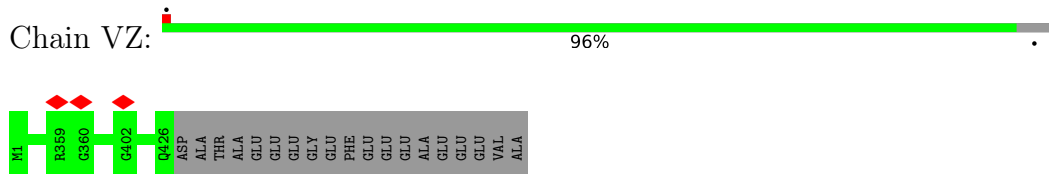


• Molecule 43: Tubulin beta-4B chain

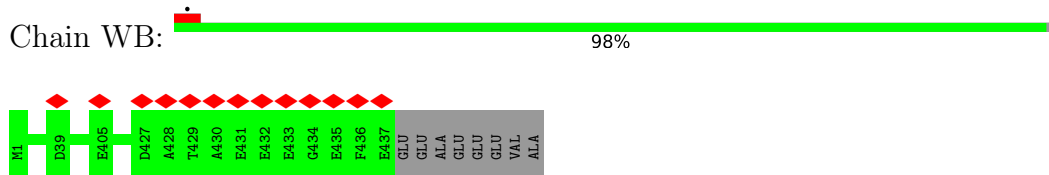
Chain VX:  96%



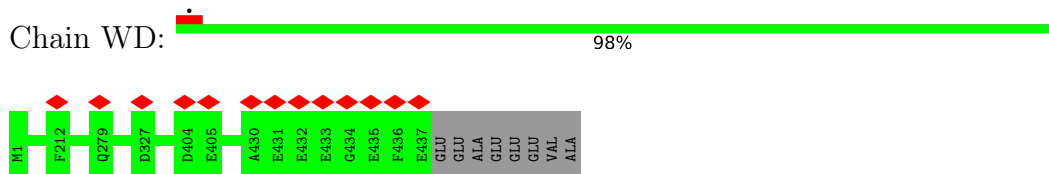
- Molecule 43: Tubulin beta-4B chain



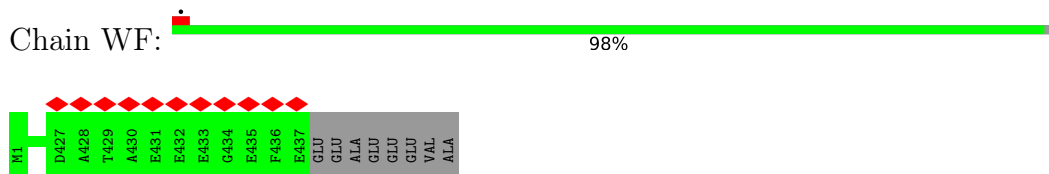
- Molecule 43: Tubulin beta-4B chain



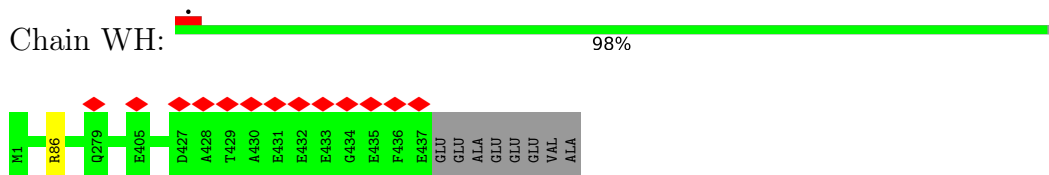
- Molecule 43: Tubulin beta-4B chain



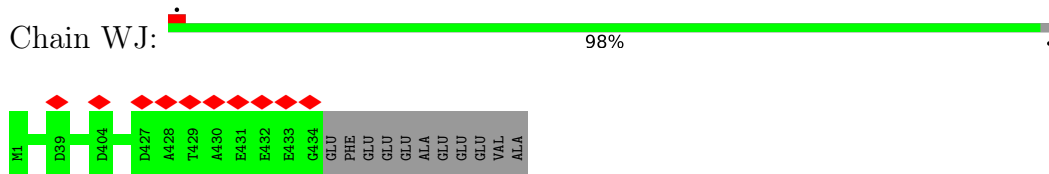
- Molecule 43: Tubulin beta-4B chain



- Molecule 43: Tubulin beta-4B chain

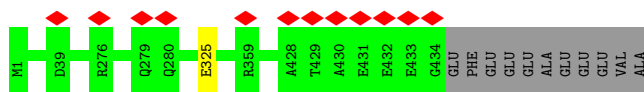


- Molecule 43: Tubulin beta-4B chain



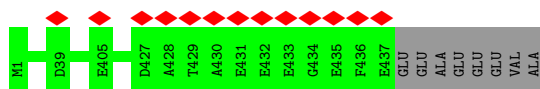
- Molecule 43: Tubulin beta-4B chain





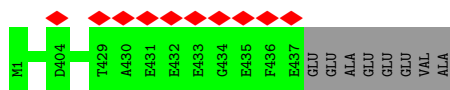
- Molecule 43: Tubulin beta-4B chain

Chain WN: 98%



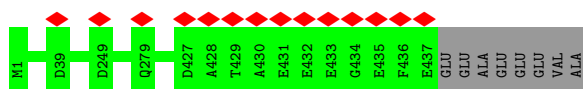
- Molecule 43: Tubulin beta-4B chain

Chain WP: 98%



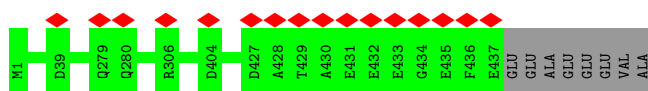
- Molecule 43: Tubulin beta-4B chain

Chain WR: 98%



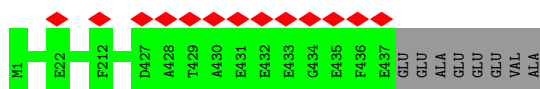
- Molecule 43: Tubulin beta-4B chain

Chain WT: 98%



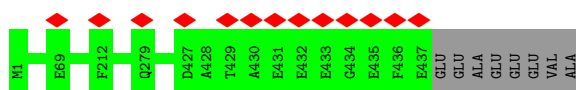
- Molecule 43: Tubulin beta-4B chain

Chain WV: 98%



- Molecule 43: Tubulin beta-4B chain

Chain WX: 98%

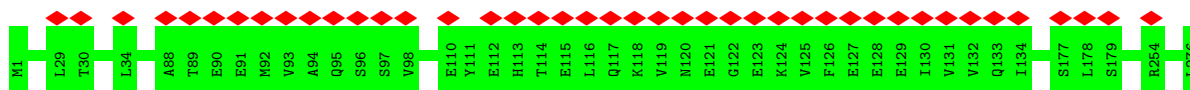


- Molecule 44: Radial spoke head protein 3 homolog

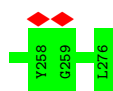
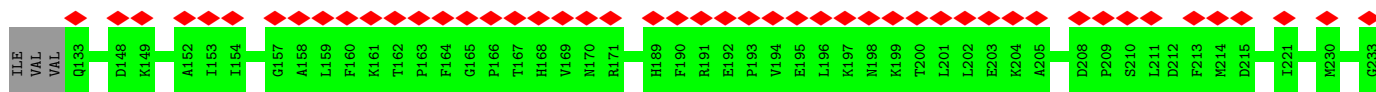
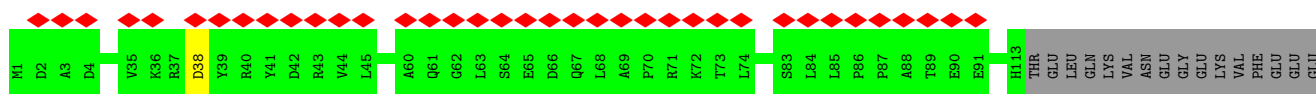
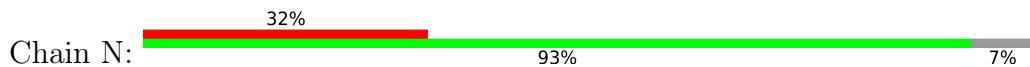
GLU LYS SER GLN ASP PRO GLY LYS GLN GLU GLU GLU GLN SER ILE SER GLY LYS GLU GLU GLU GLU THR SER VAL THR ILE LEU ASP SER SER SER GLU GLU ASP LYS GLU VAL VAL VAL VAL ILE ILE LYS VAL VAL ALA ALA VAL LYS LYS LYS MET LYS THR ASN

SER LEU GLN ASN ASP PRO GLY LYS GLN GLU GLU GLU GLN SER ILE SER GLY LYS

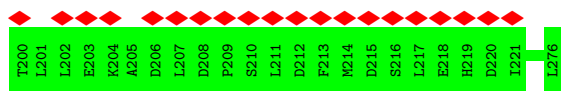
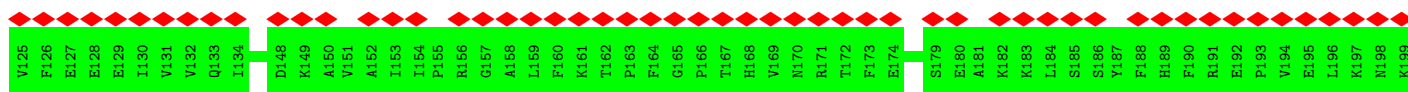
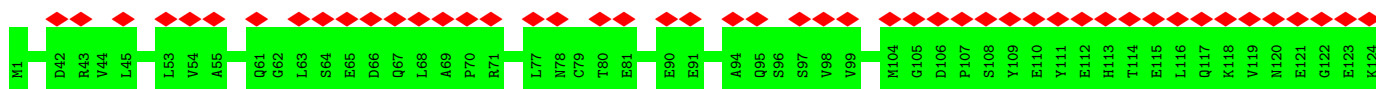
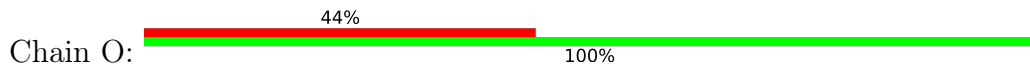
• Molecule 47: Radial spoke head protein 9 homolog



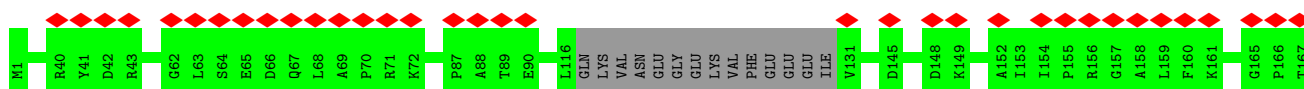
• Molecule 47: Radial spoke head protein 9 homolog

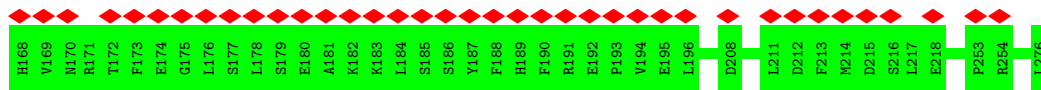


• Molecule 47: Radial spoke head protein 9 homolog

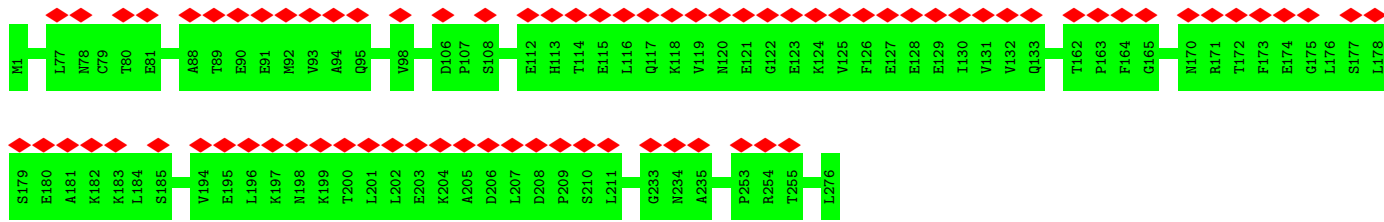


• Molecule 47: Radial spoke head protein 9 homolog

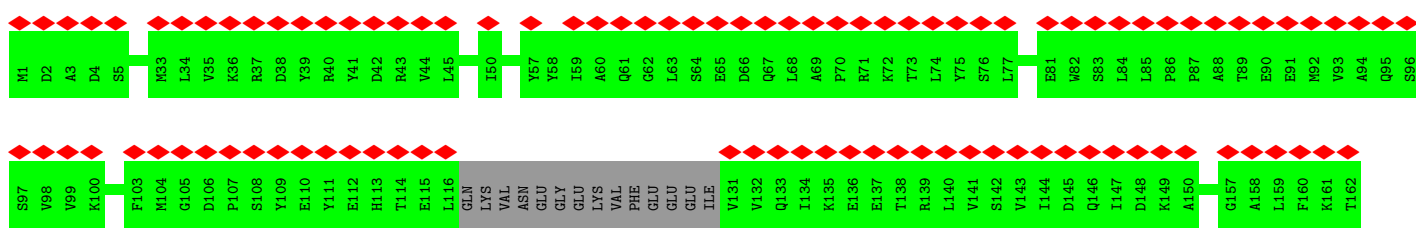
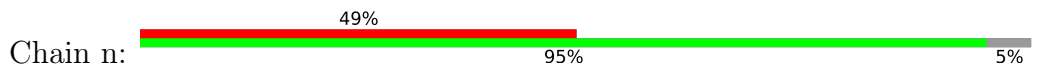




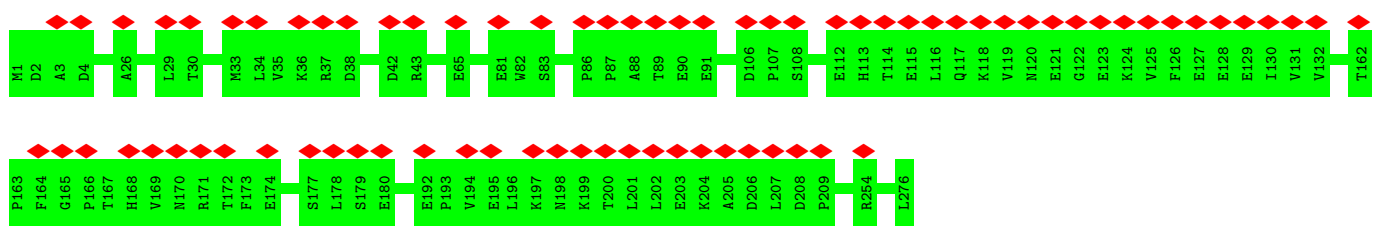
• Molecule 47: Radial spoke head protein 9 homolog



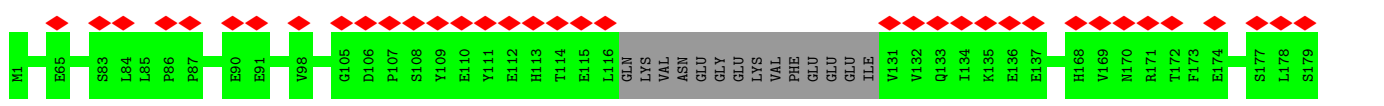
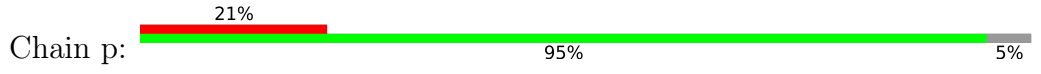
• Molecule 47: Radial spoke head protein 9 homolog

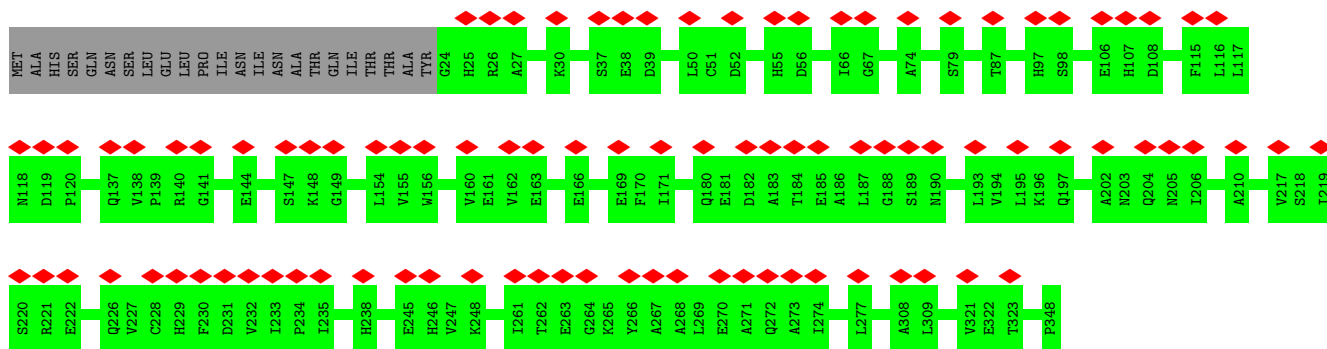


• Molecule 47: Radial spoke head protein 9 homolog

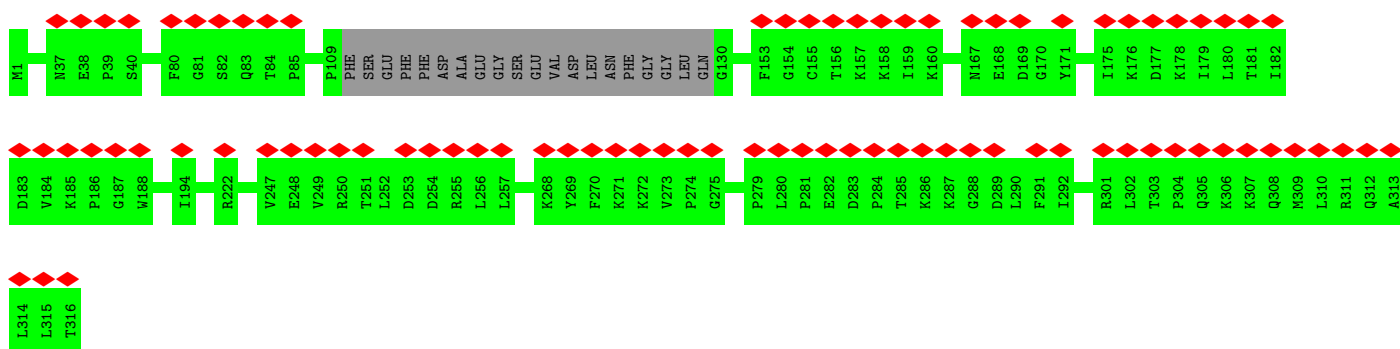


• Molecule 47: Radial spoke head protein 9 homolog

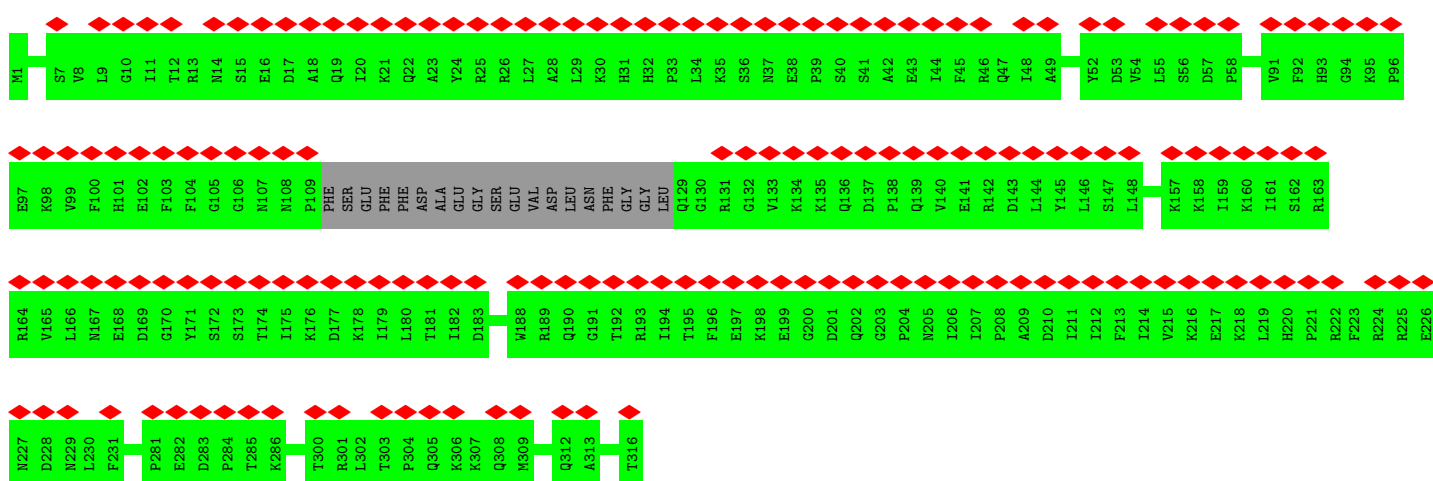




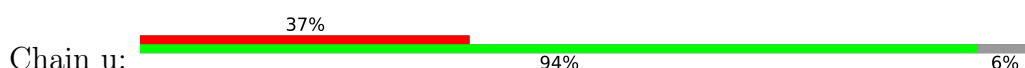
• Molecule 51: DnaJ homolog subfamily B member 13

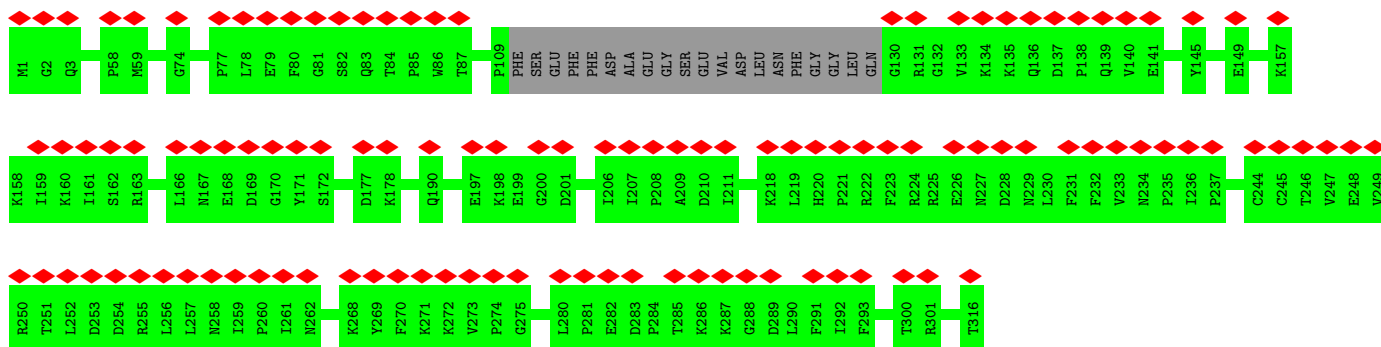


• Molecule 51: DnaJ homolog subfamily B member 13



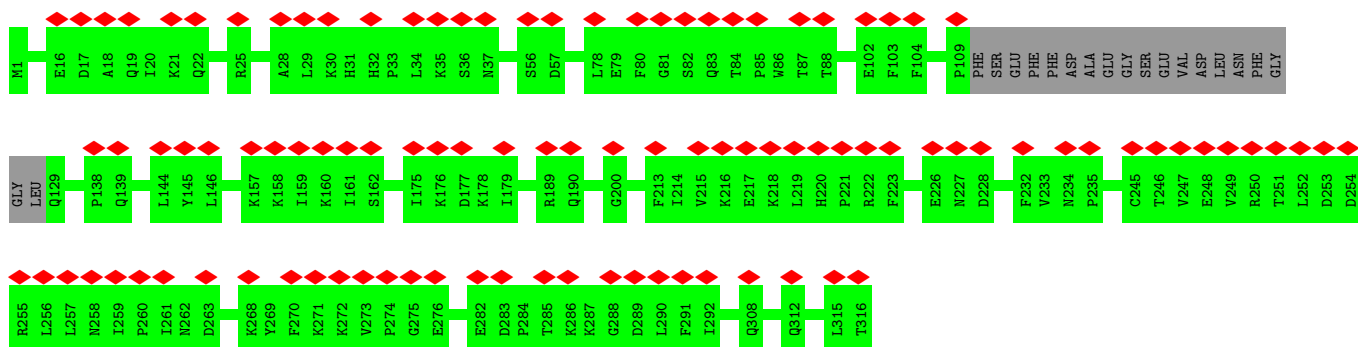
• Molecule 51: DnaJ homolog subfamily B member 13





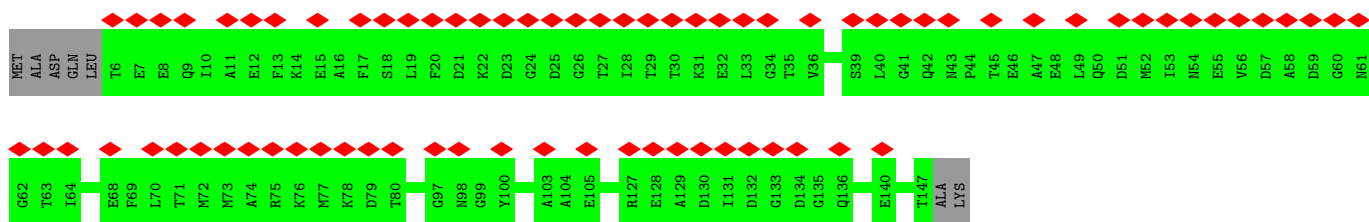
- Molecule 51: DnaJ homolog subfamily B member 13

Chain v: 33% 94% 6%



- Molecule 52: Calmodulin-1

Chain W: 51% 95% 5%

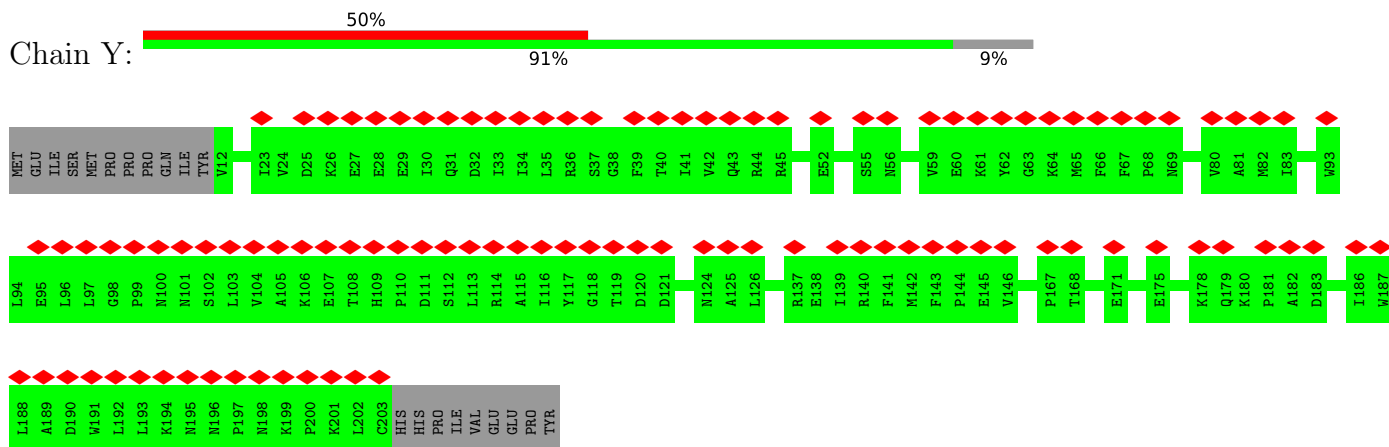


- Molecule 53: Nucleoside diphosphate kinase homolog 5

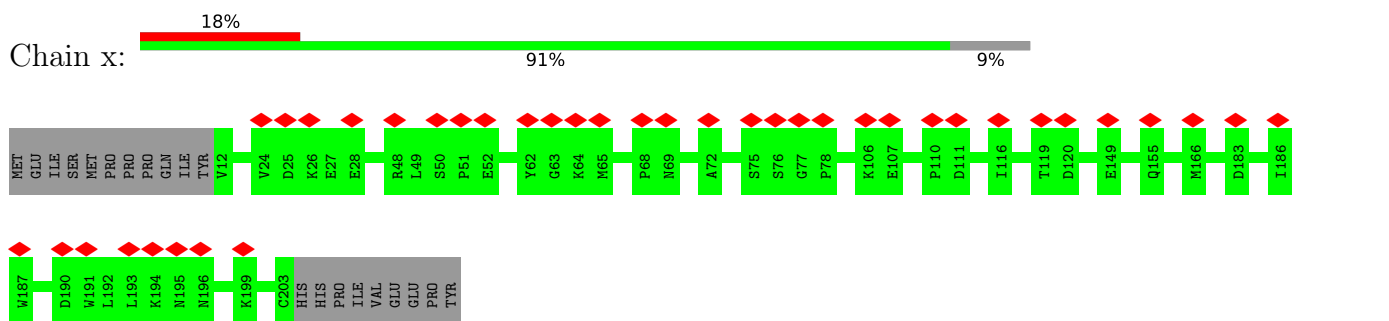
Chain X: 35% 91% 9%



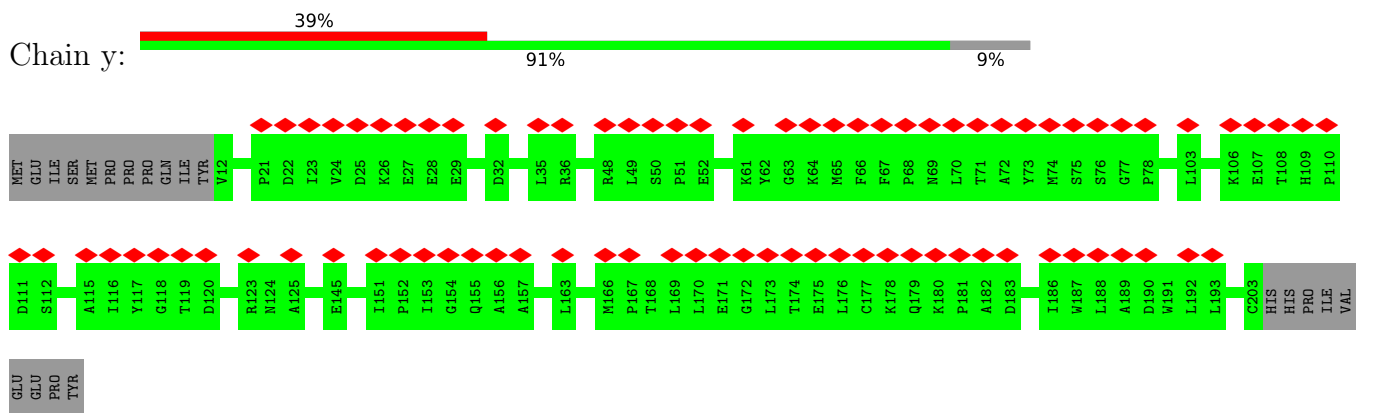
- Molecule 53: Nucleoside diphosphate kinase homolog 5



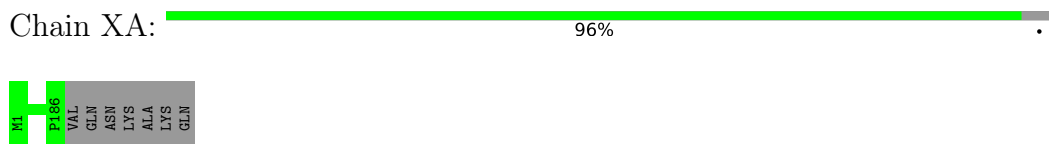
• Molecule 53: Nucleoside diphosphate kinase homolog 5



• Molecule 53: Nucleoside diphosphate kinase homolog 5

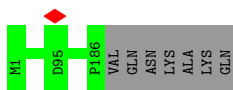


• Molecule 54: Cilia- and flagella-associated protein 20



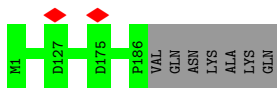
• Molecule 54: Cilia- and flagella-associated protein 20





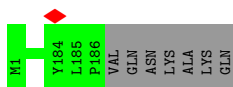
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XC: 96%



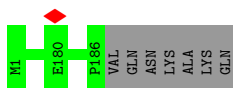
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XD: 96%



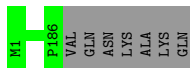
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XE: 96%



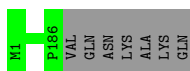
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XF: 96%



- Molecule 54: Cilia- and flagella-associated protein 20

Chain XG: 96%



- Molecule 54: Cilia- and flagella-associated protein 20

Chain XH: 96%



- Molecule 54: Cilia- and flagella-associated protein 20

Chain XI:  96%



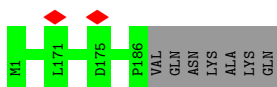
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XJ:  96%



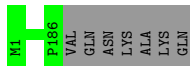
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XK:  96%



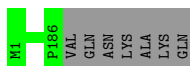
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XL:  96%



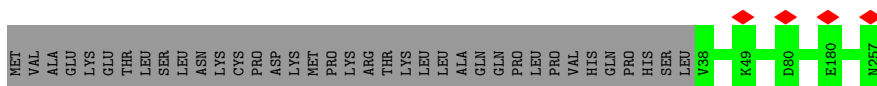
- Molecule 54: Cilia- and flagella-associated protein 20

Chain XM:  96%



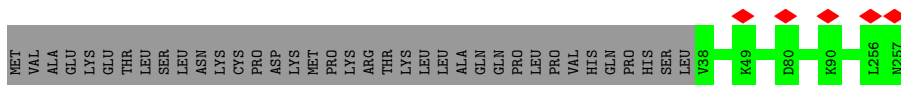
- Molecule 55: Parkin coregulated gene protein

Chain YB:  86%  14%

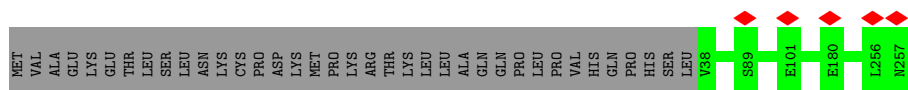


- Molecule 55: Parkin coregulated gene protein

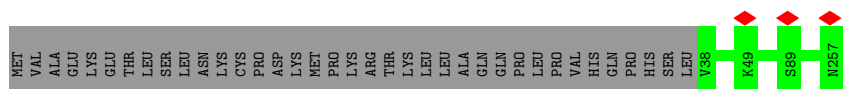
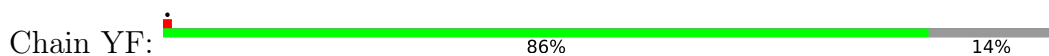
Chain YC:  86%  14%



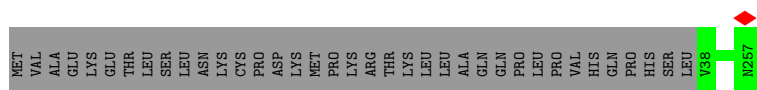
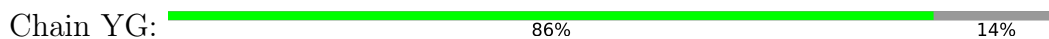
• Molecule 55: Parkin coregulated gene protein



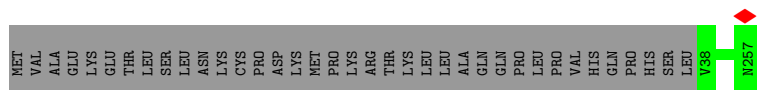
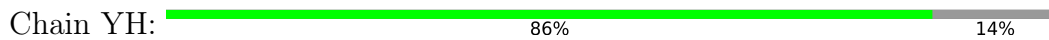
• Molecule 55: Parkin coregulated gene protein



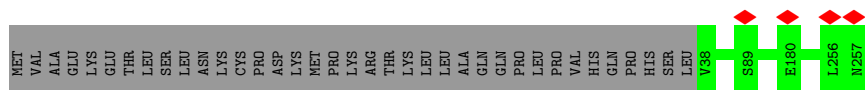
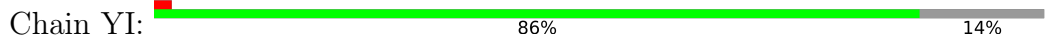
• Molecule 55: Parkin coregulated gene protein



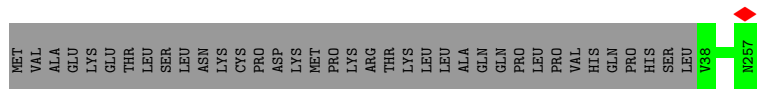
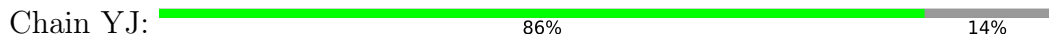
• Molecule 55: Parkin coregulated gene protein



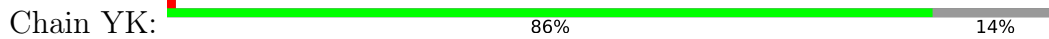
• Molecule 55: Parkin coregulated gene protein

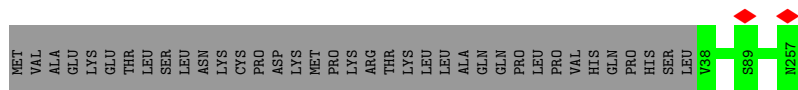


• Molecule 55: Parkin coregulated gene protein

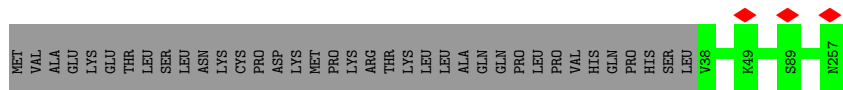
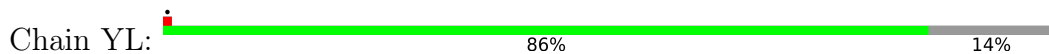


• Molecule 55: Parkin coregulated gene protein

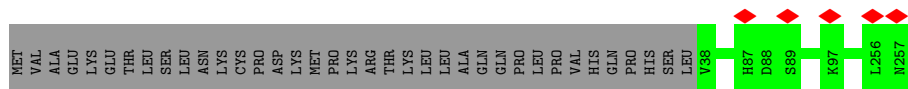




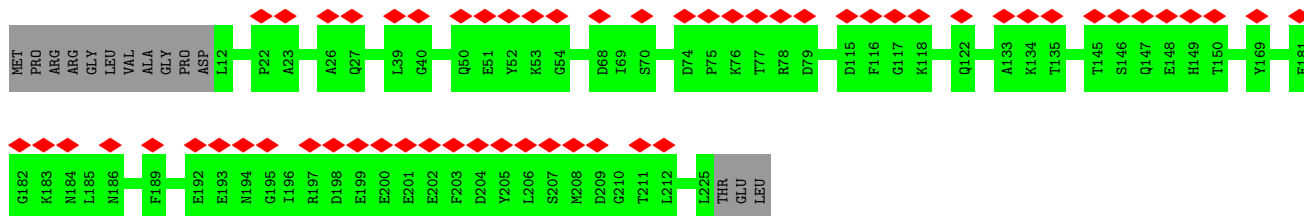
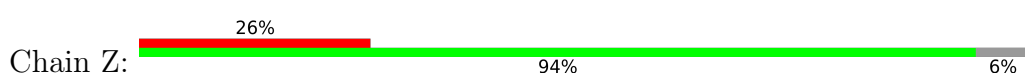
• Molecule 55: Parkin coregulated gene protein



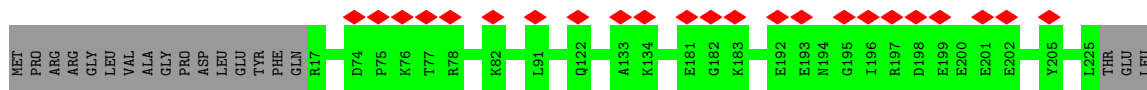
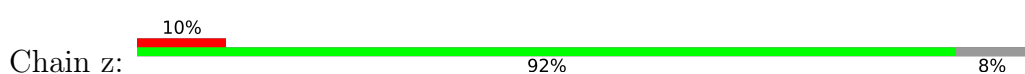
• Molecule 55: Parkin coregulated gene protein



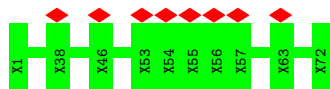
• Molecule 56: Cytochrome b5 domain-containing protein 1



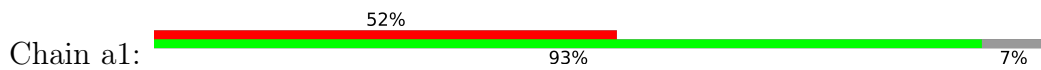
• Molecule 56: Cytochrome b5 domain-containing protein 1

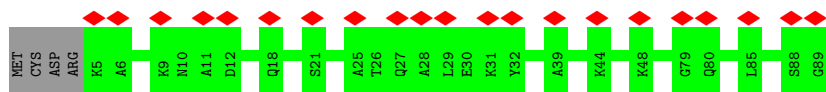


• Molecule 57: Unknown

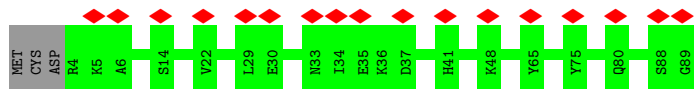


• Molecule 58: DYNLL1





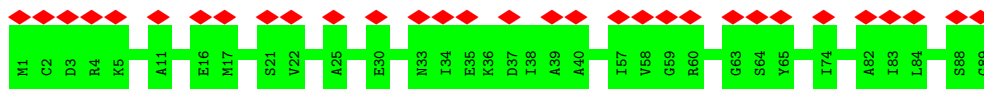
• Molecule 58: DYNLL1



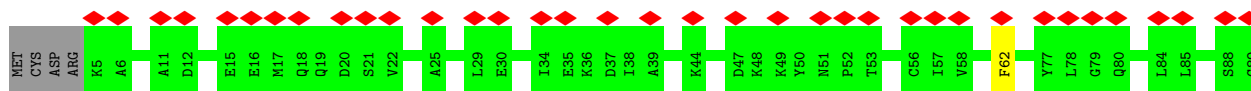
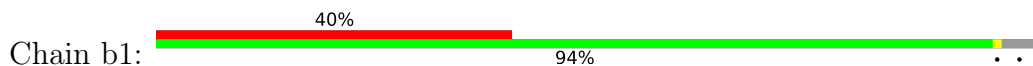
• Molecule 58: DYNLL1



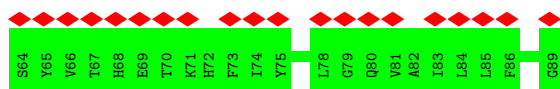
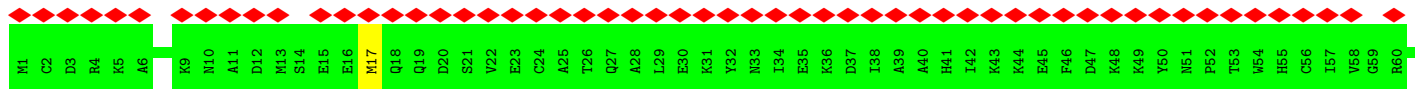
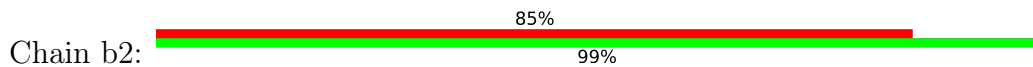
• Molecule 58: DYNLL1



• Molecule 58: DYNLL1

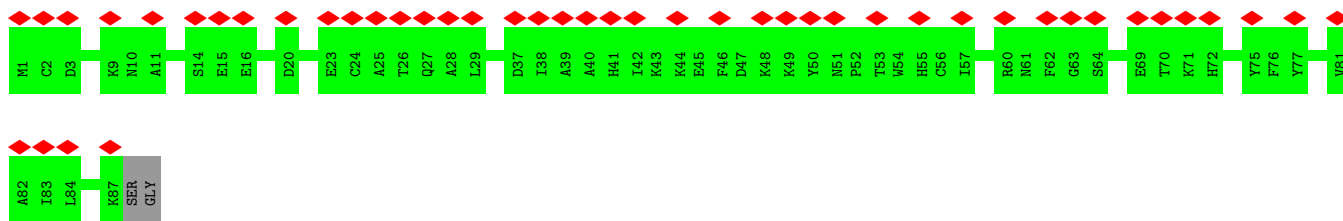


• Molecule 58: DYNLL1

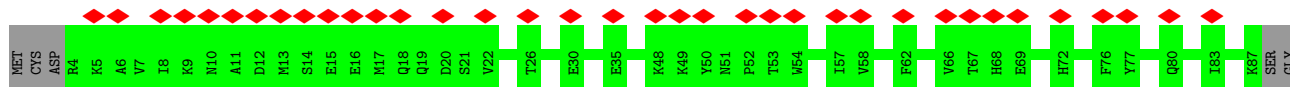
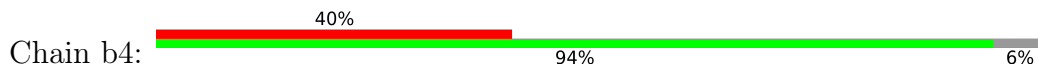


• Molecule 58: DYNLL1

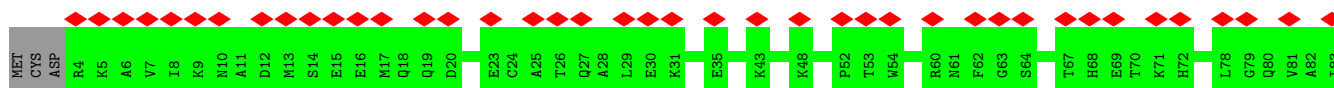




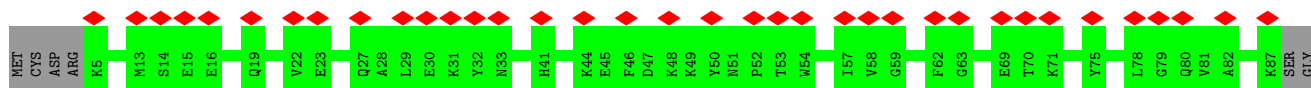
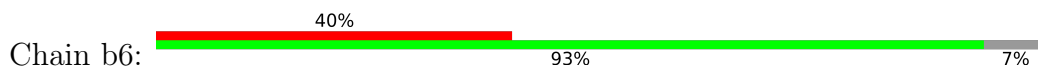
• Molecule 58: DYNLL1



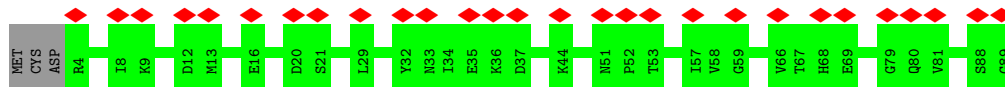
• Molecule 58: DYNLL1



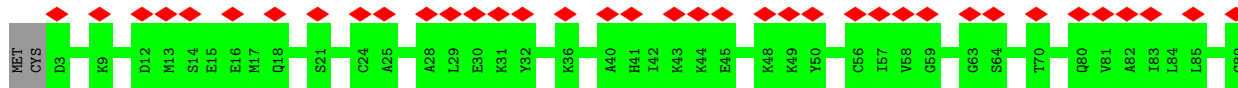
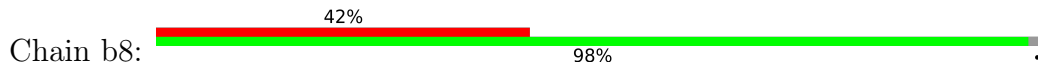
• Molecule 58: DYNLL1



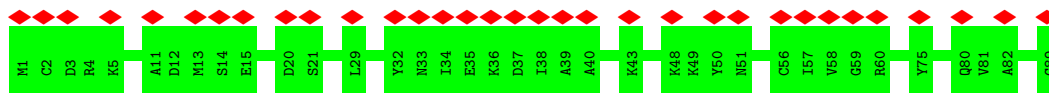
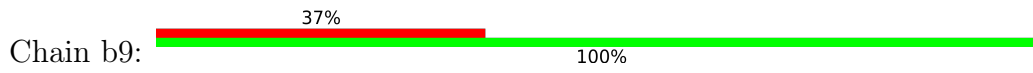
• Molecule 58: DYNLL1



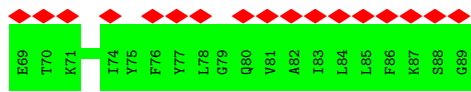
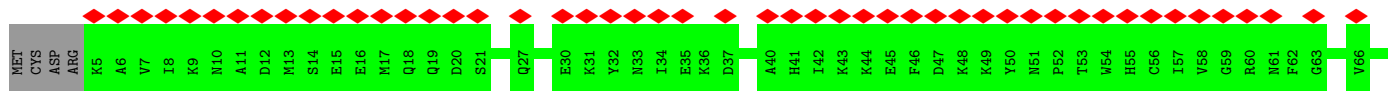
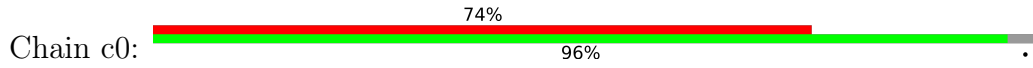
• Molecule 58: DYNLL1



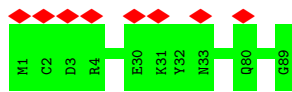
• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



• Molecule 58: DYNLL1



There are no outlier residues recorded for this chain.

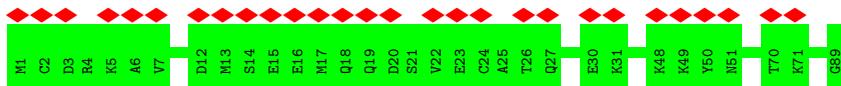
- Molecule 58: DYNLL1

Chain l6:  100%



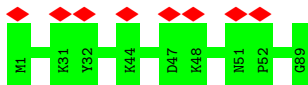
- Molecule 58: DYNLL1

Chain n1:  31%  100%



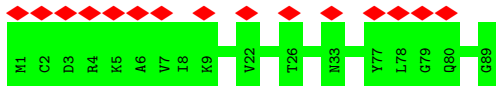
- Molecule 58: DYNLL1

Chain n2:  9%  100%



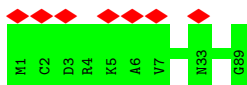
- Molecule 58: DYNLL1

Chain n3:  17%  100%



- Molecule 58: DYNLL1

Chain n4:  8%  100%



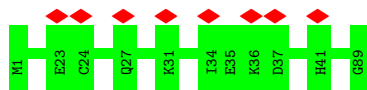
- Molecule 58: DYNLL1

Chain n5:  36%  100%

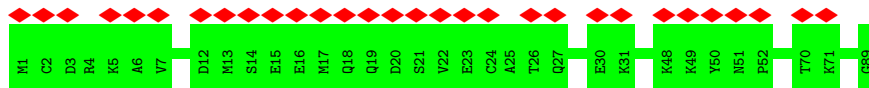


- Molecule 58: DYNLL1

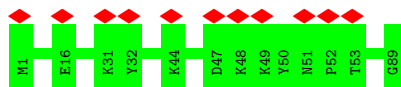
Chain n6:  9%  100%



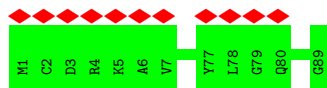
- Molecule 58: DYNLL1



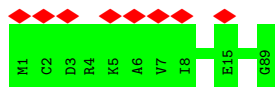
- Molecule 58: DYNLL1



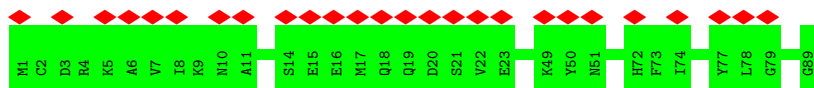
- Molecule 58: DYNLL1



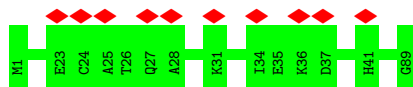
- Molecule 58: DYNLL1



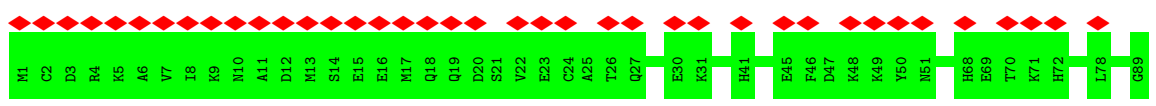
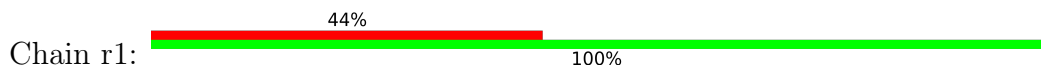
- Molecule 58: DYNLL1



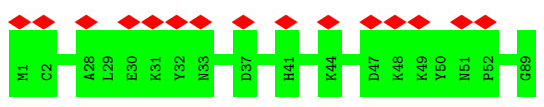
- Molecule 58: DYNLL1



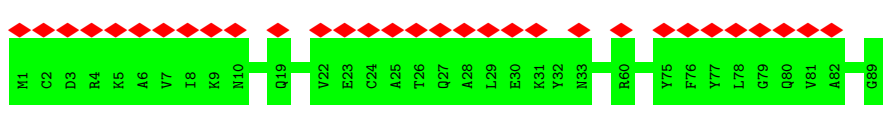
- Molecule 58: DYNLL1



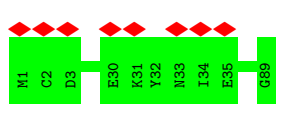
• Molecule 58: DYNLL1



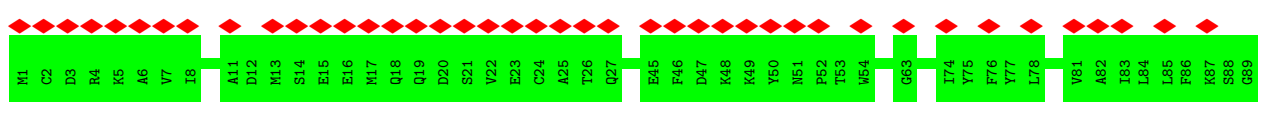
• Molecule 58: DYNLL1



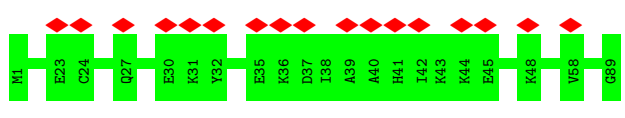
• Molecule 58: DYNLL1



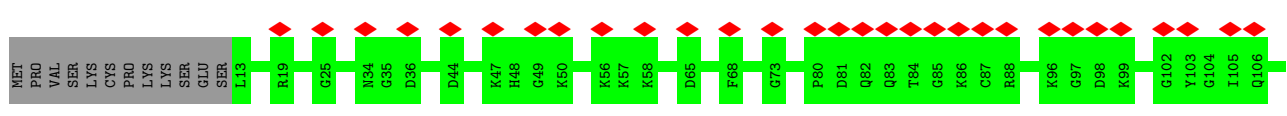
• Molecule 58: DYNLL1

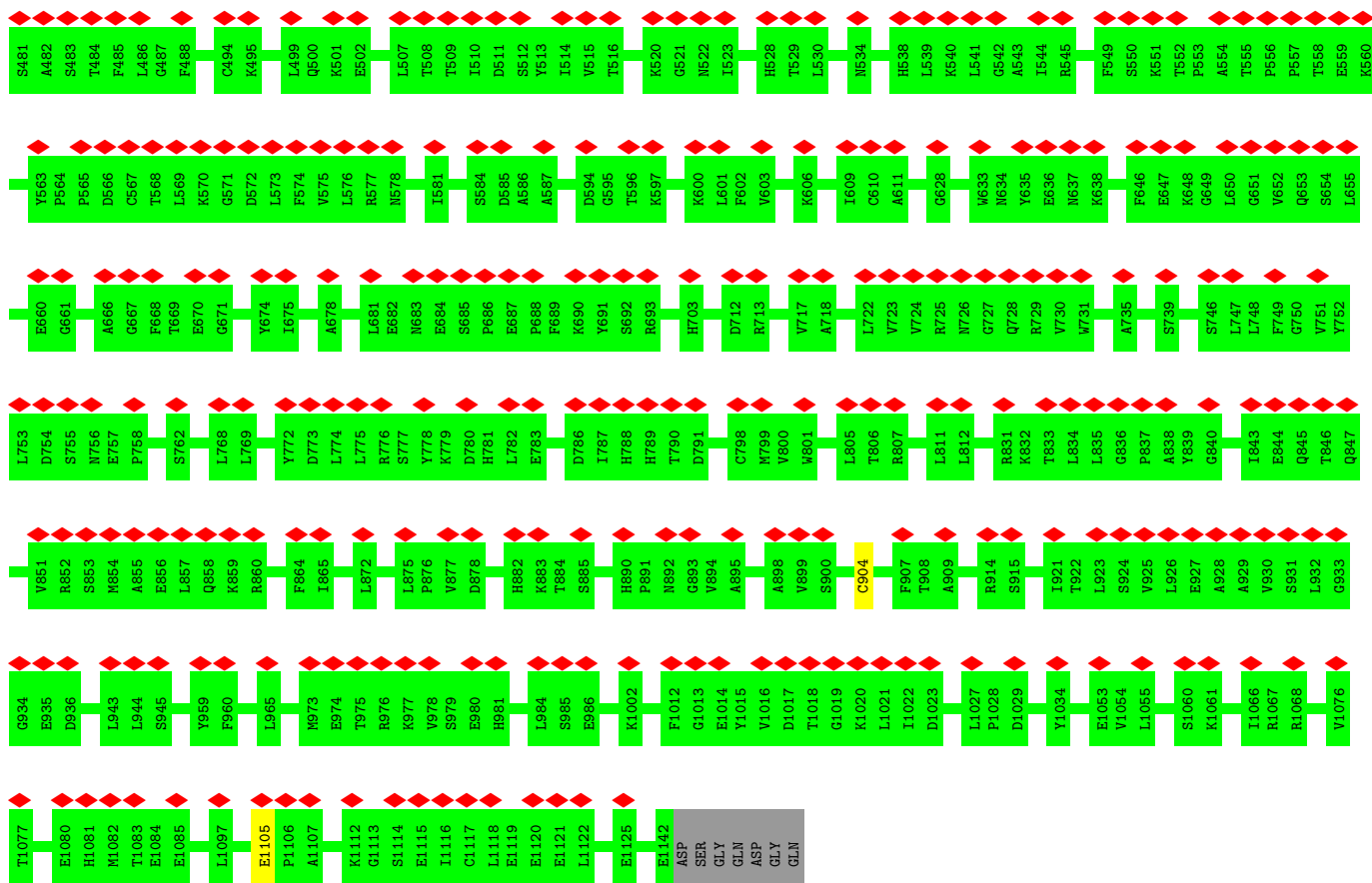


• Molecule 58: DYNLL1

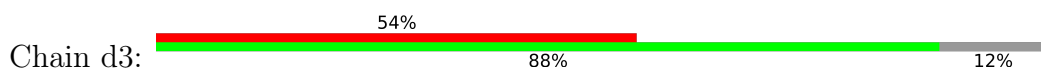


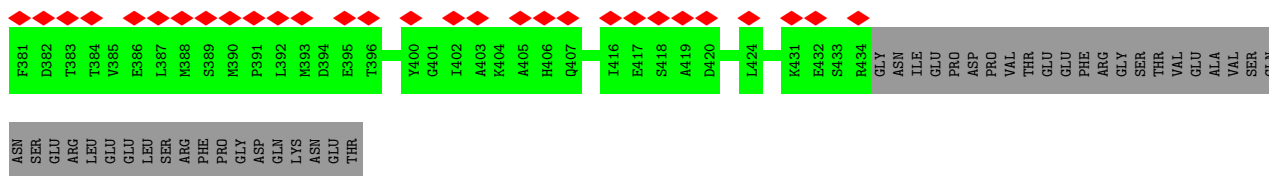
• Molecule 59: MORN repeat-containing protein 3



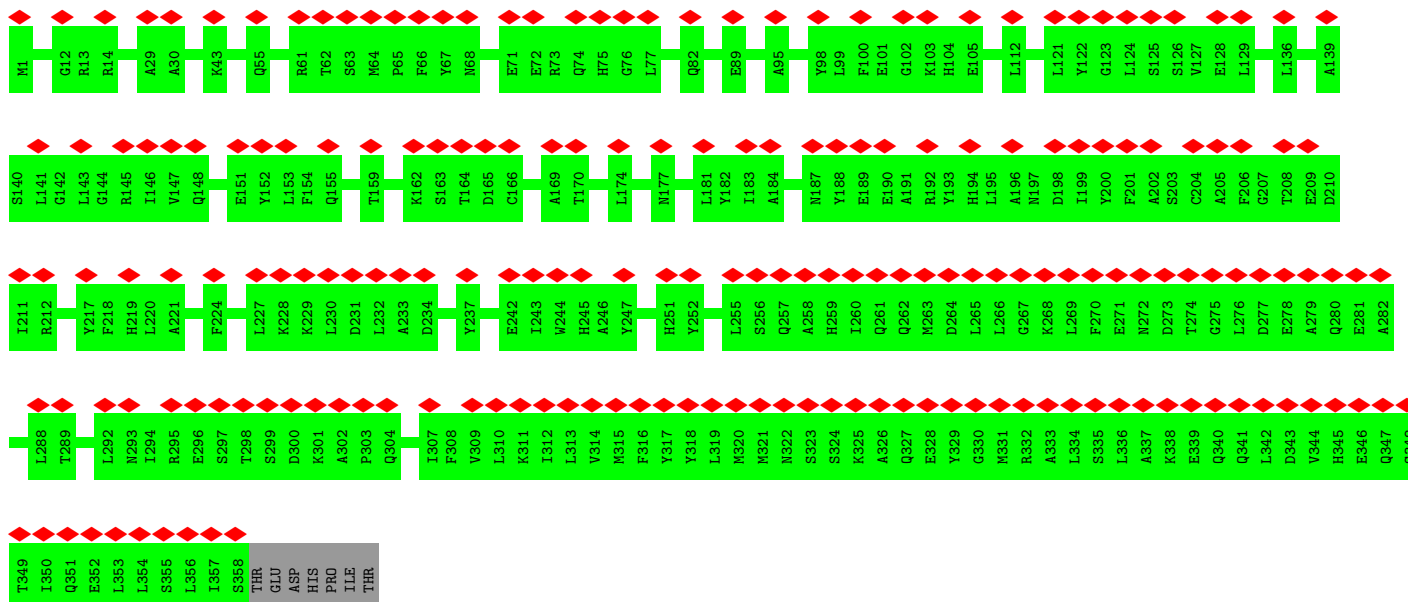


• Molecule 65: Tetratricopeptide repeat protein 29

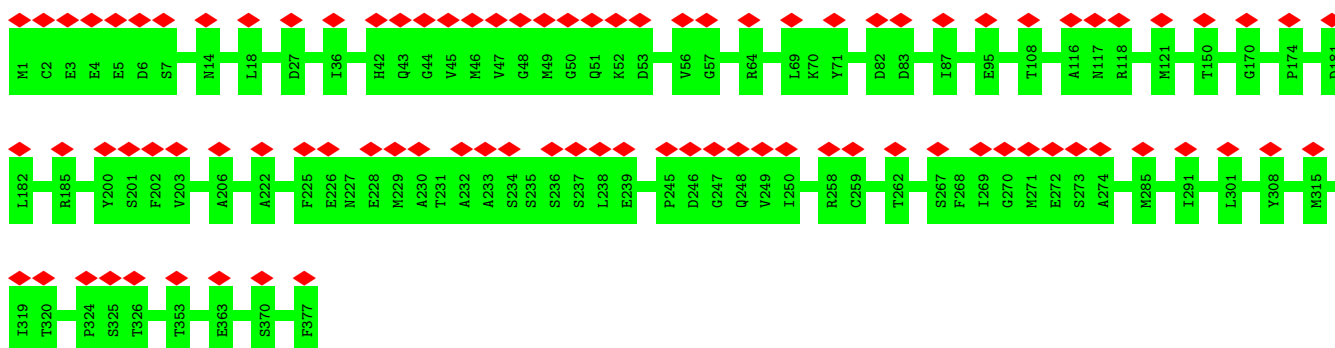




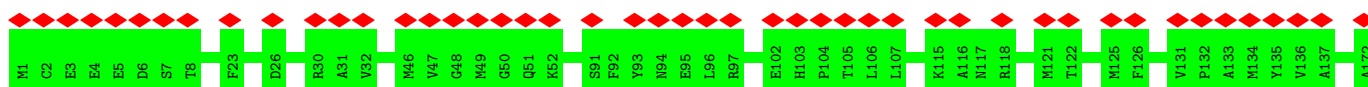
• Molecule 66: Zinc finger MYND domain-containing protein 12

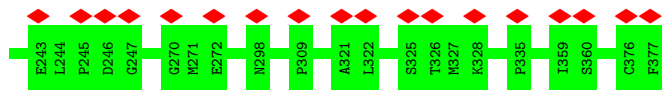


• Molecule 67: ACTA2

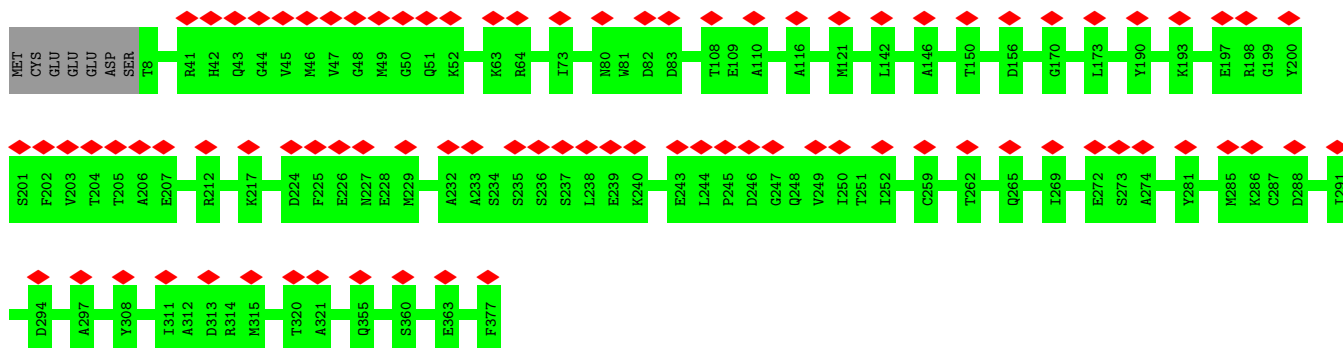


• Molecule 67: ACTA2

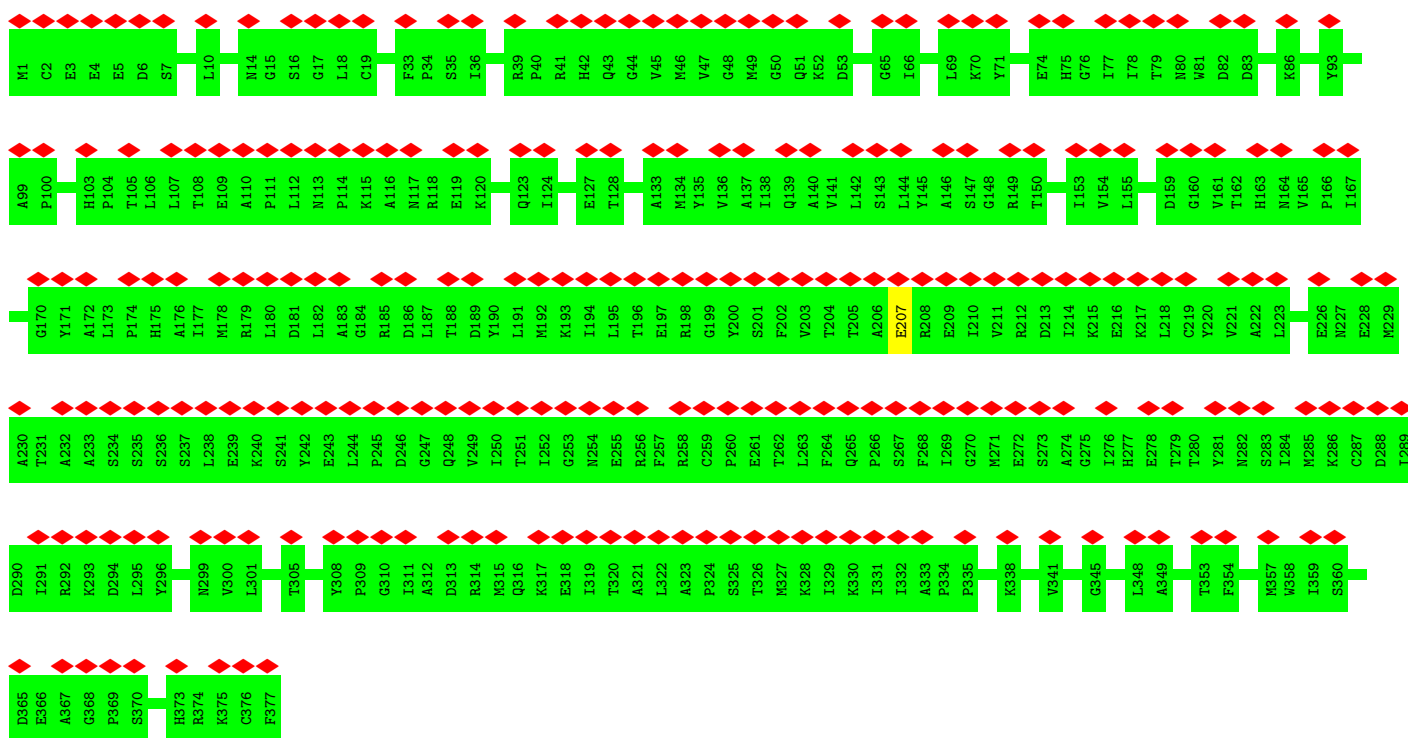




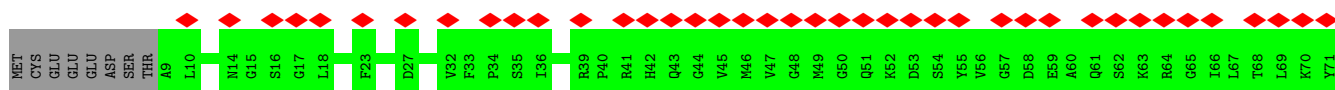
• Molecule 67: ACTA2

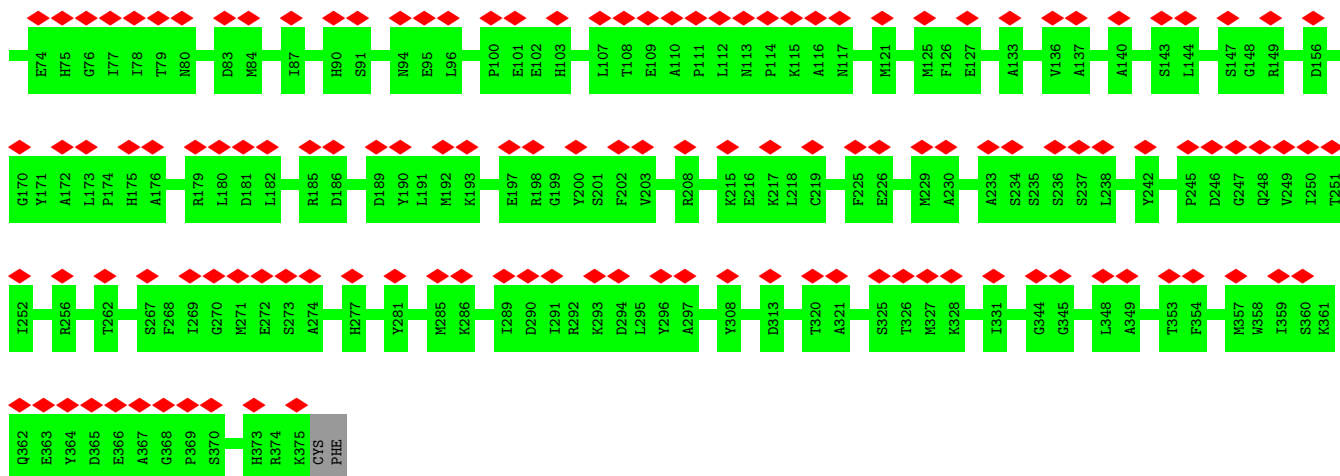


• Molecule 67: ACTA2

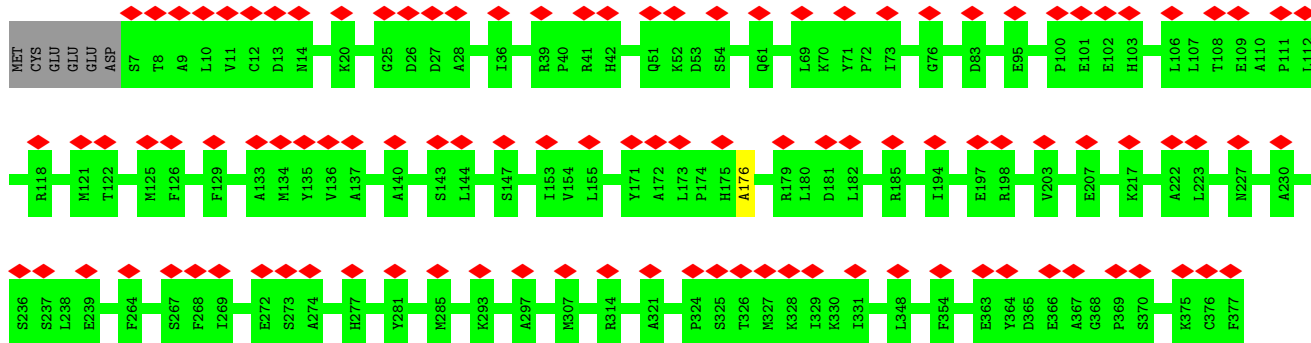


• Molecule 67: ACTA2

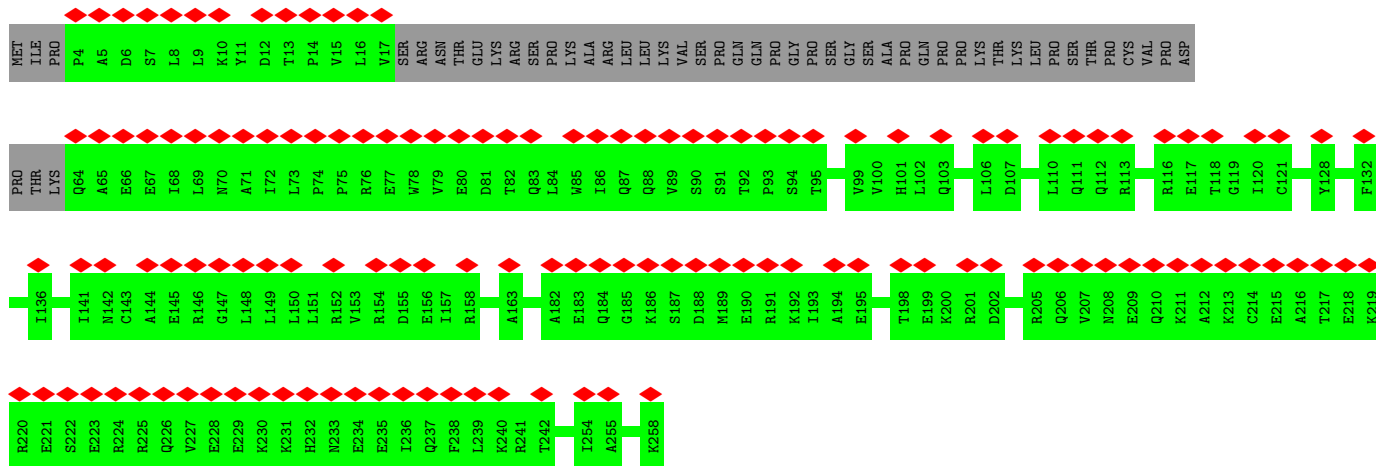
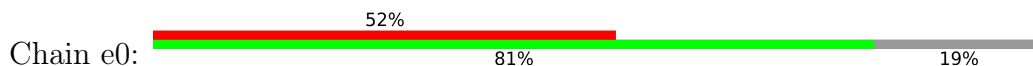




• Molecule 67: ACTA2



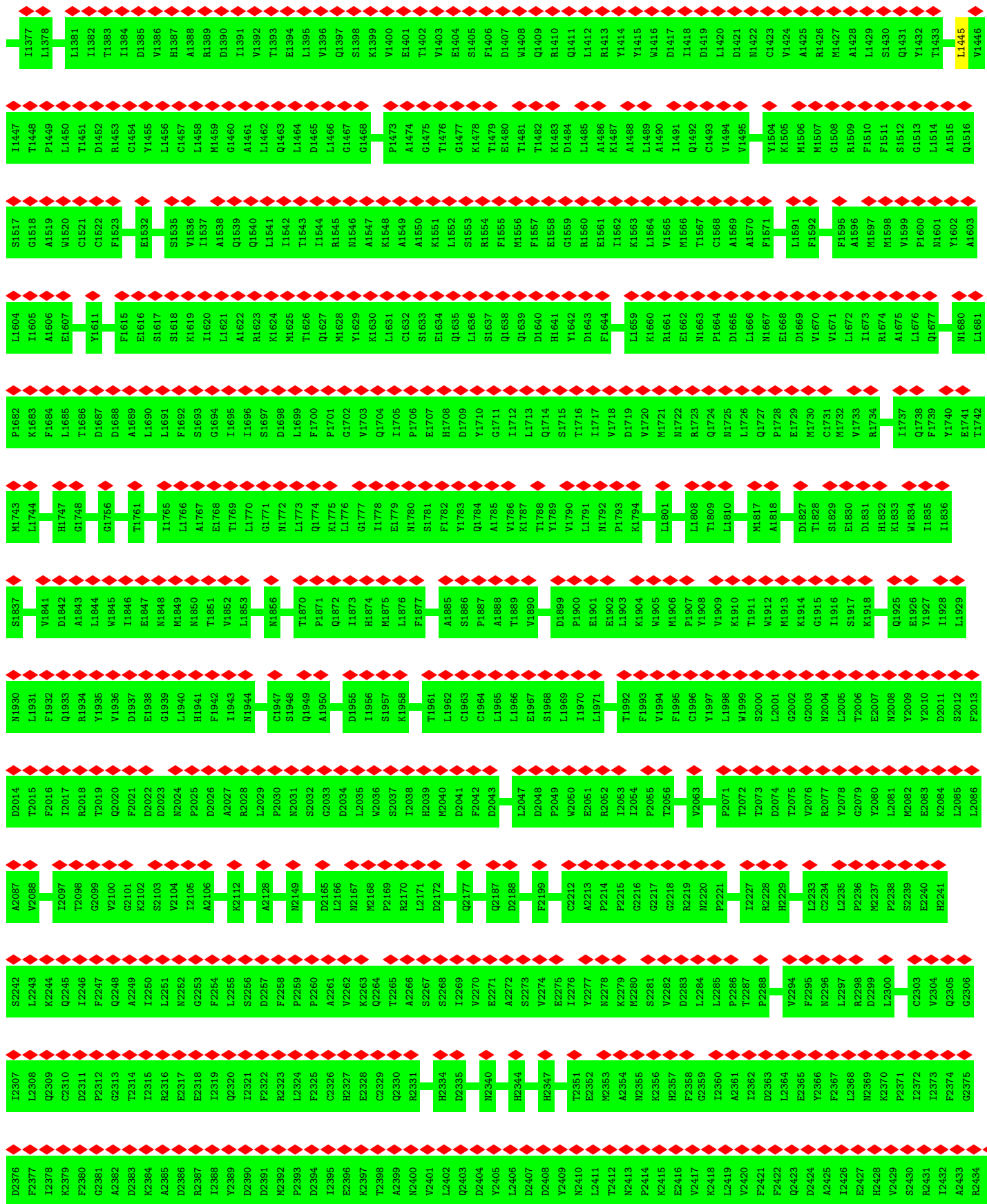
• Molecule 68: Axonemal dynein light intermediate polypeptide 1



• Molecule 68: Axonemal dynein light intermediate polypeptide 1

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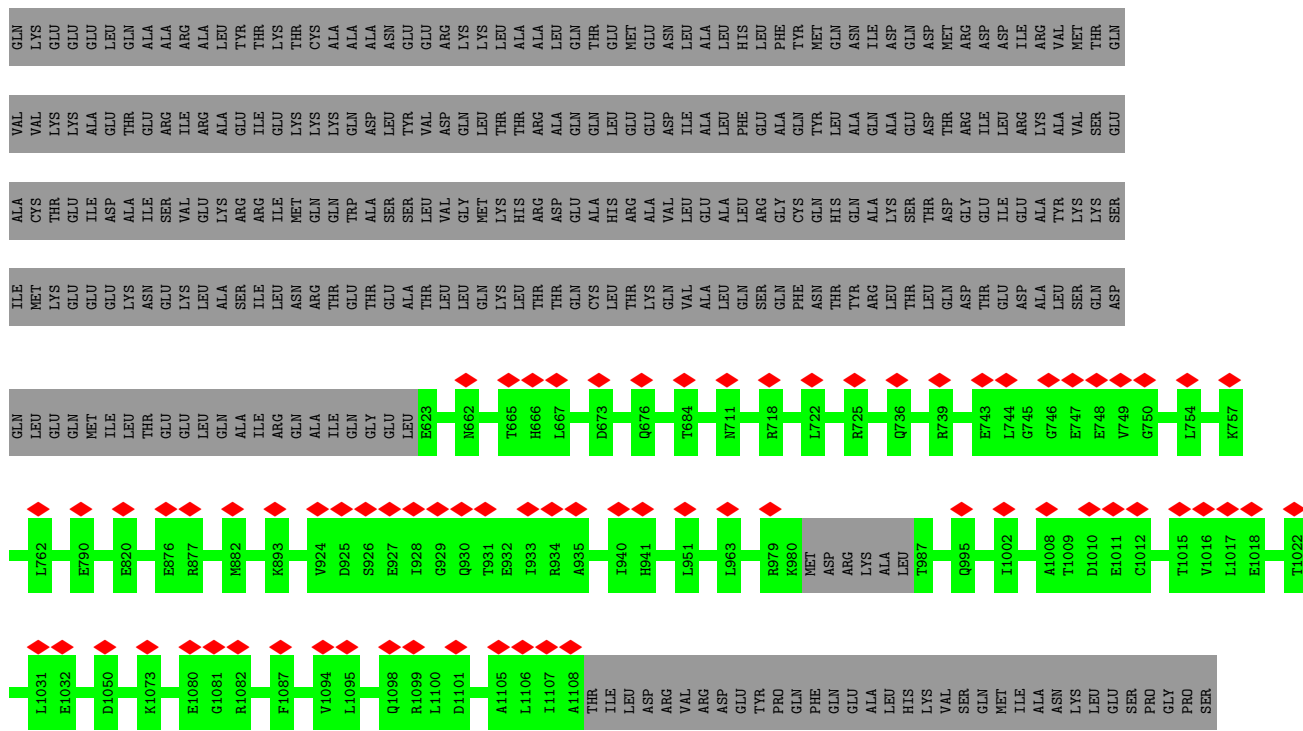


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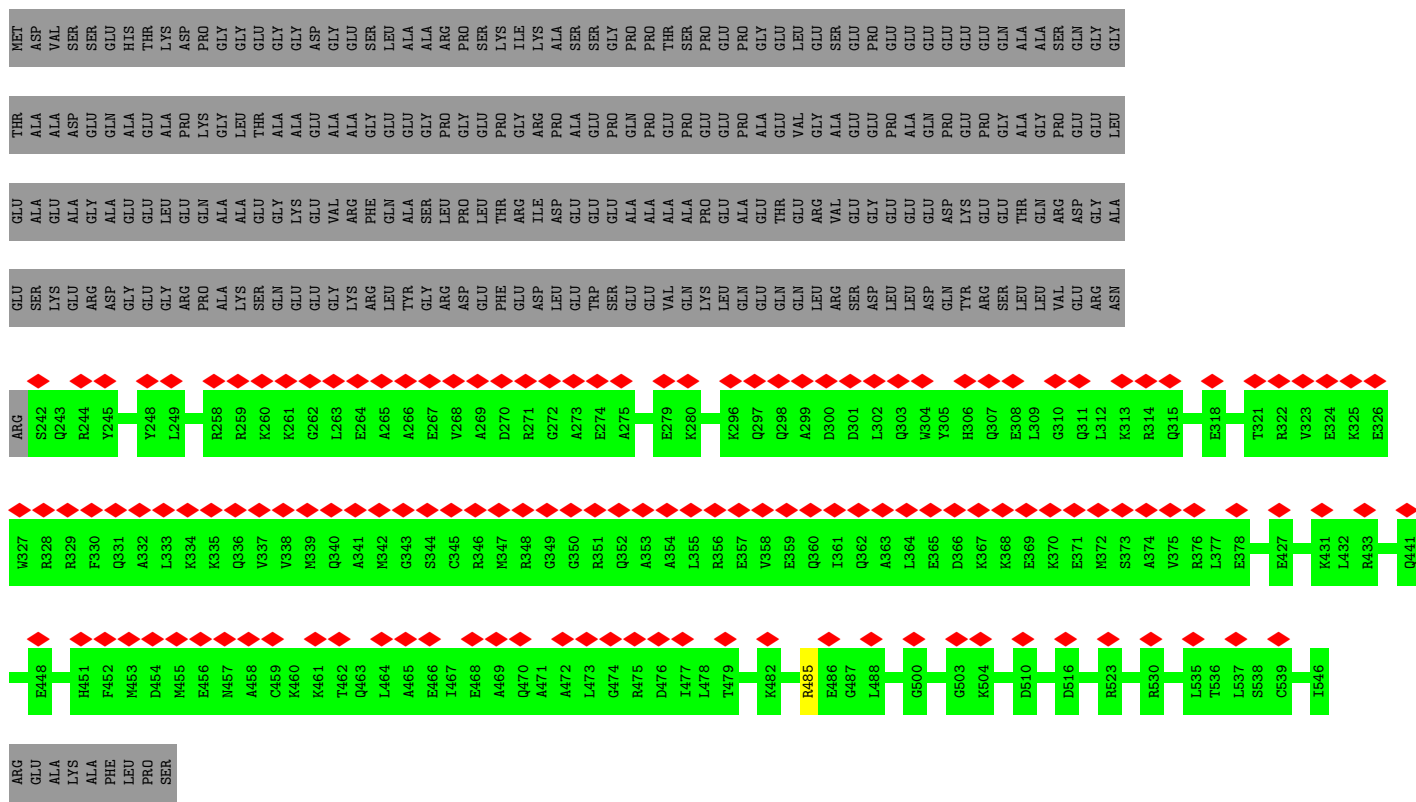
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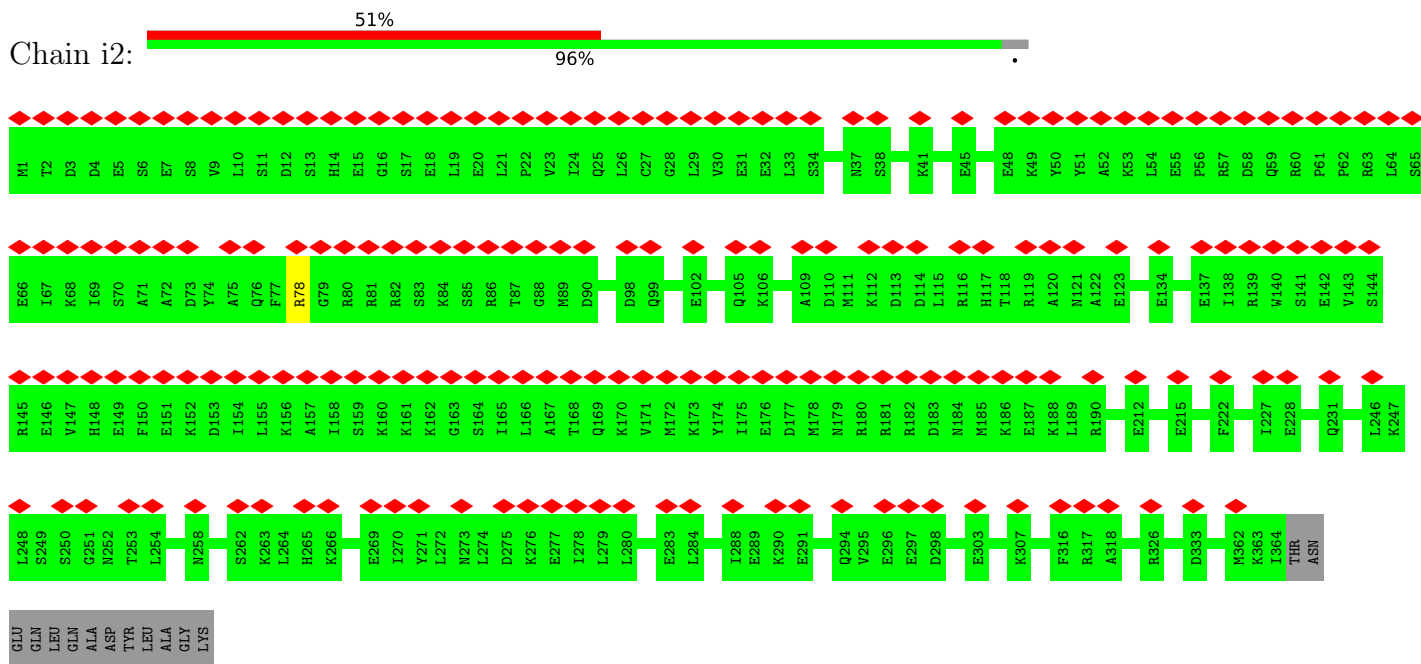
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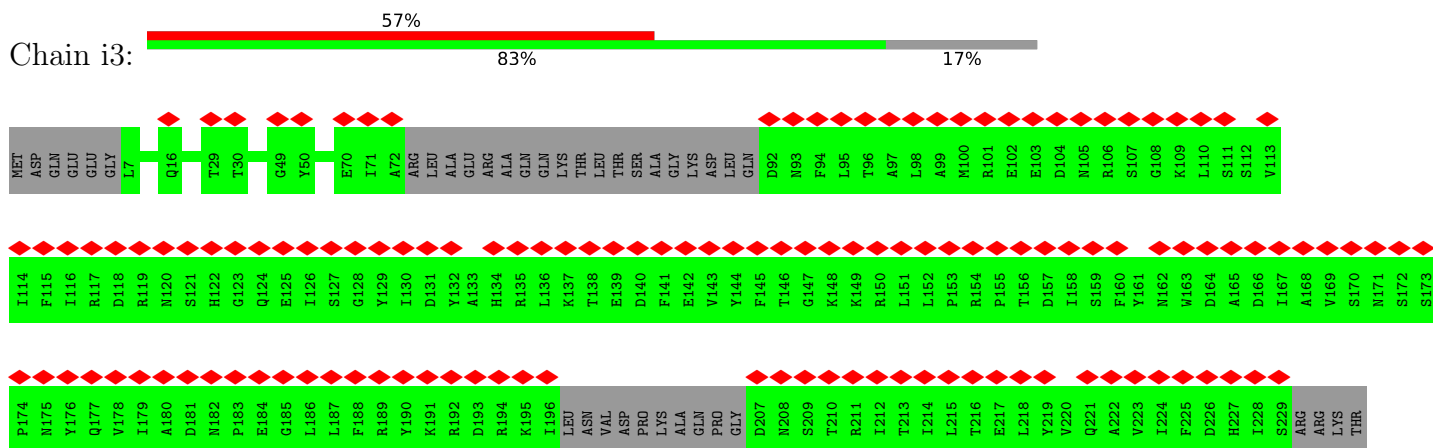
• Molecule 77: Coiled-coil domain-containing protein 96



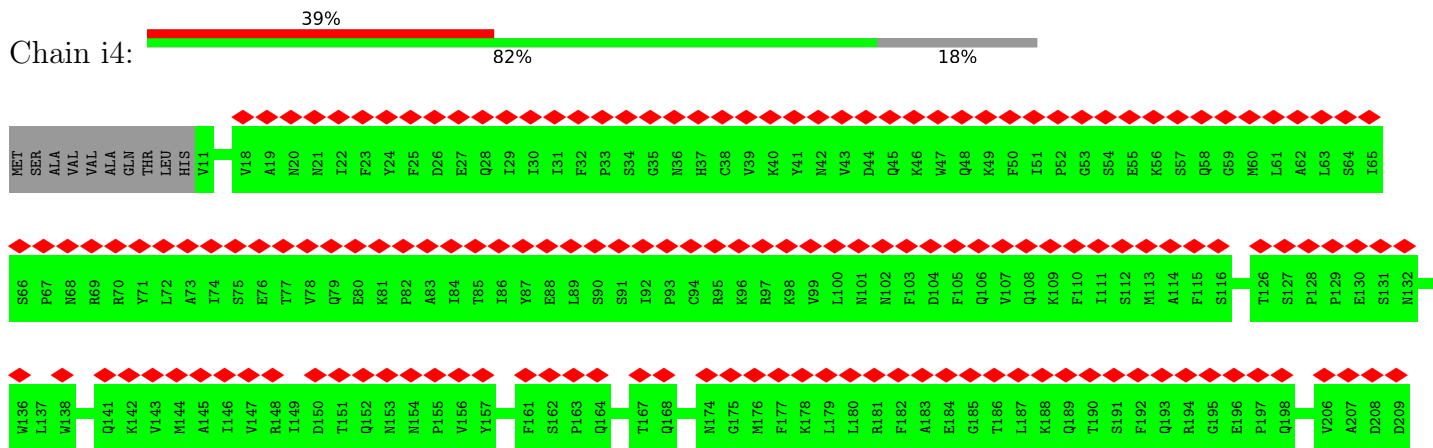
• Molecule 78: Coiled-coil domain-containing protein 113

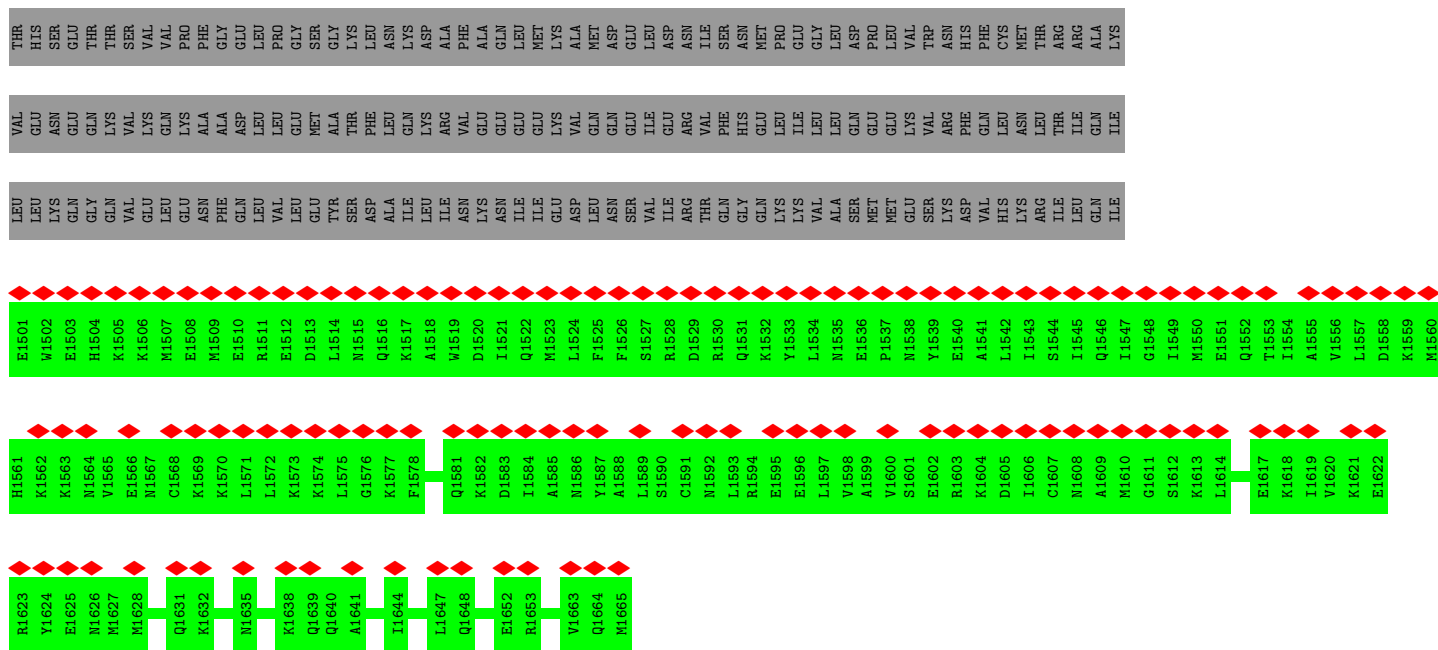


• Molecule 79: Cilia- and flagella-associated protein 299

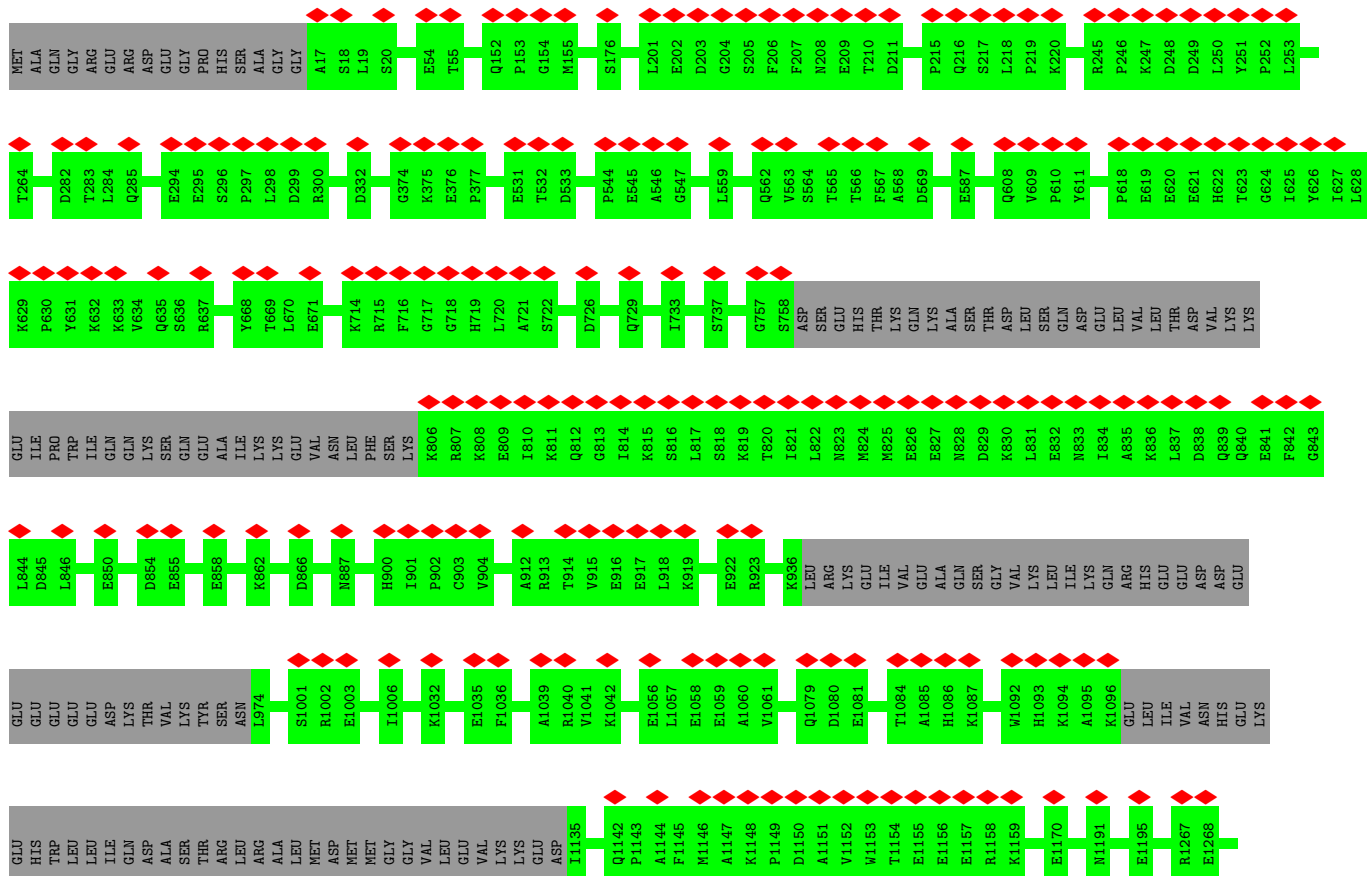
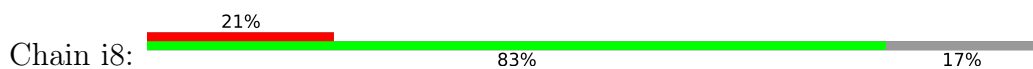


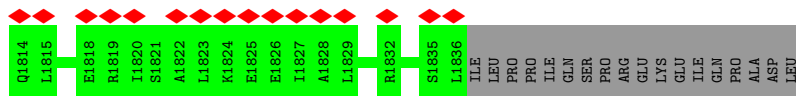
• Molecule 80: Cilia- and flagella-associated protein 57



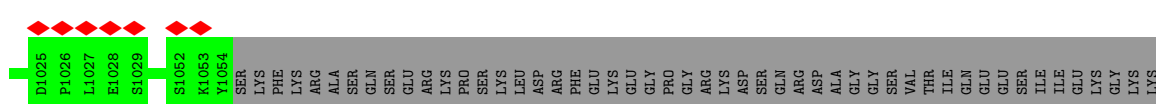
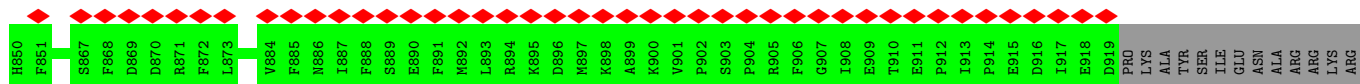
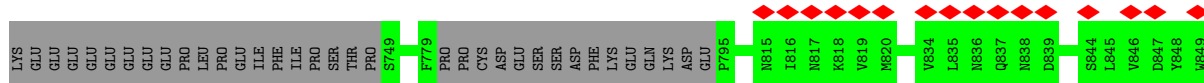
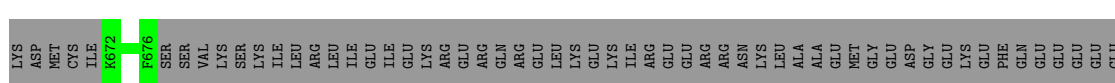
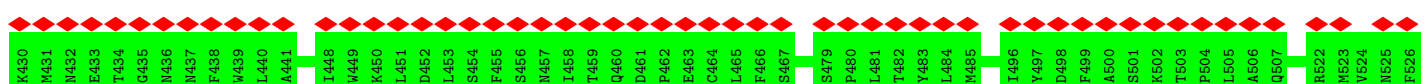
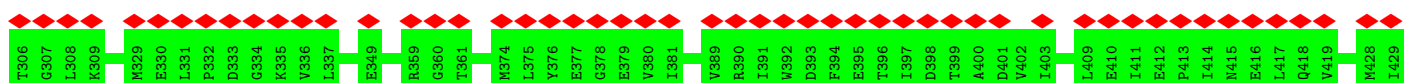
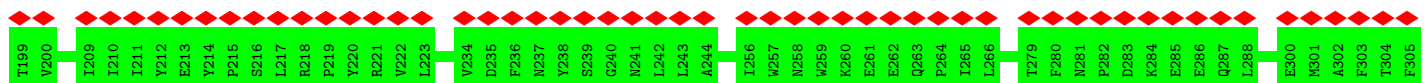
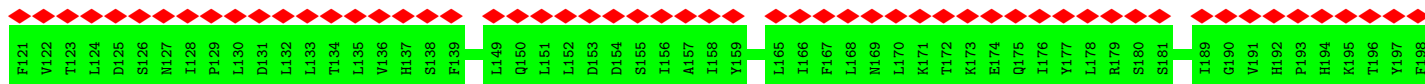
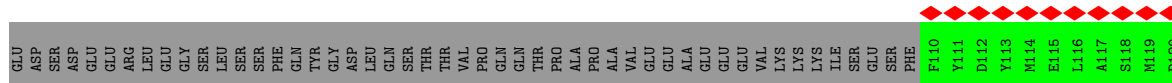
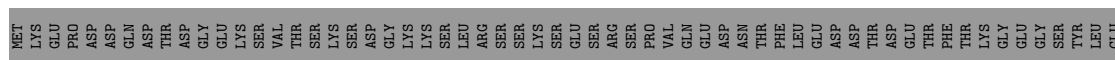
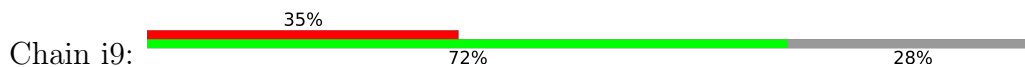


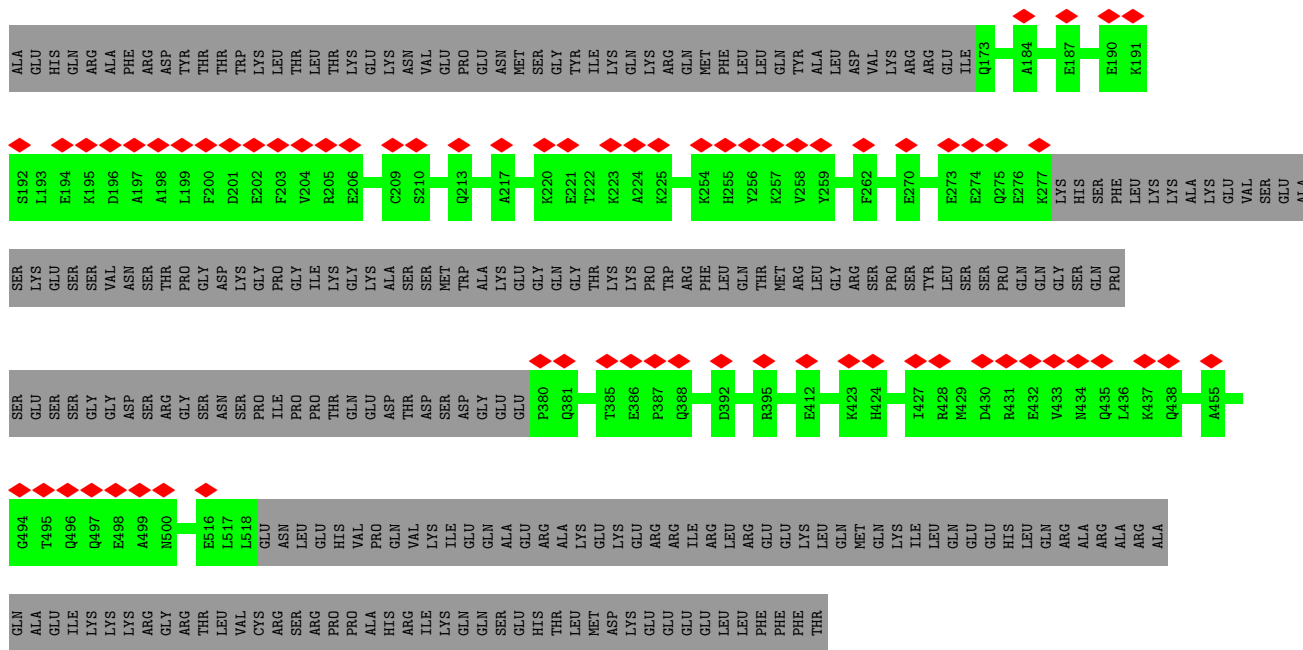
• Molecule 81: Cilia- and flagella-associated protein 43



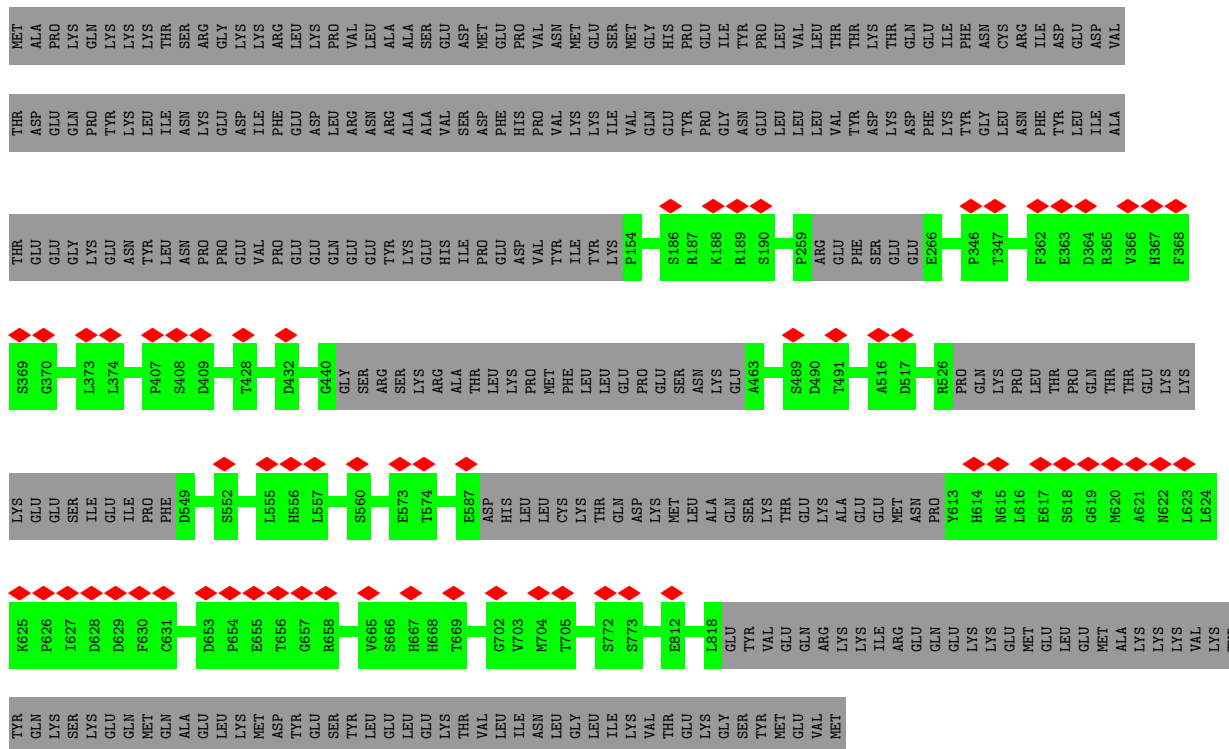


● Molecule 82: Cilia- and flagella-associated protein 44



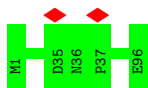


• Molecule 86: Dynein axonemal intermediate chain 3

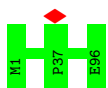


• Molecule 87: Dynein axonemal intermediate chain 4

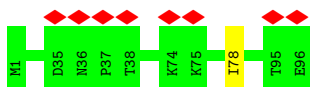




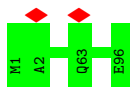
- Molecule 89: Dynein light chain roadblock-type 1



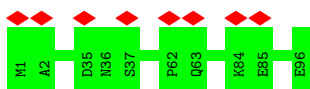
- Molecule 89: Dynein light chain roadblock-type 1



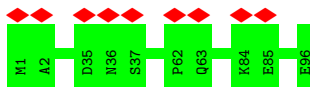
- Molecule 90: Dynein light chain roadblock-type 2



- Molecule 90: Dynein light chain roadblock-type 2

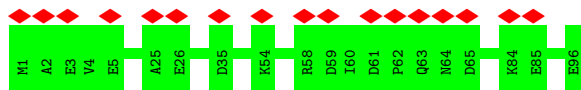


- Molecule 90: Dynein light chain roadblock-type 2

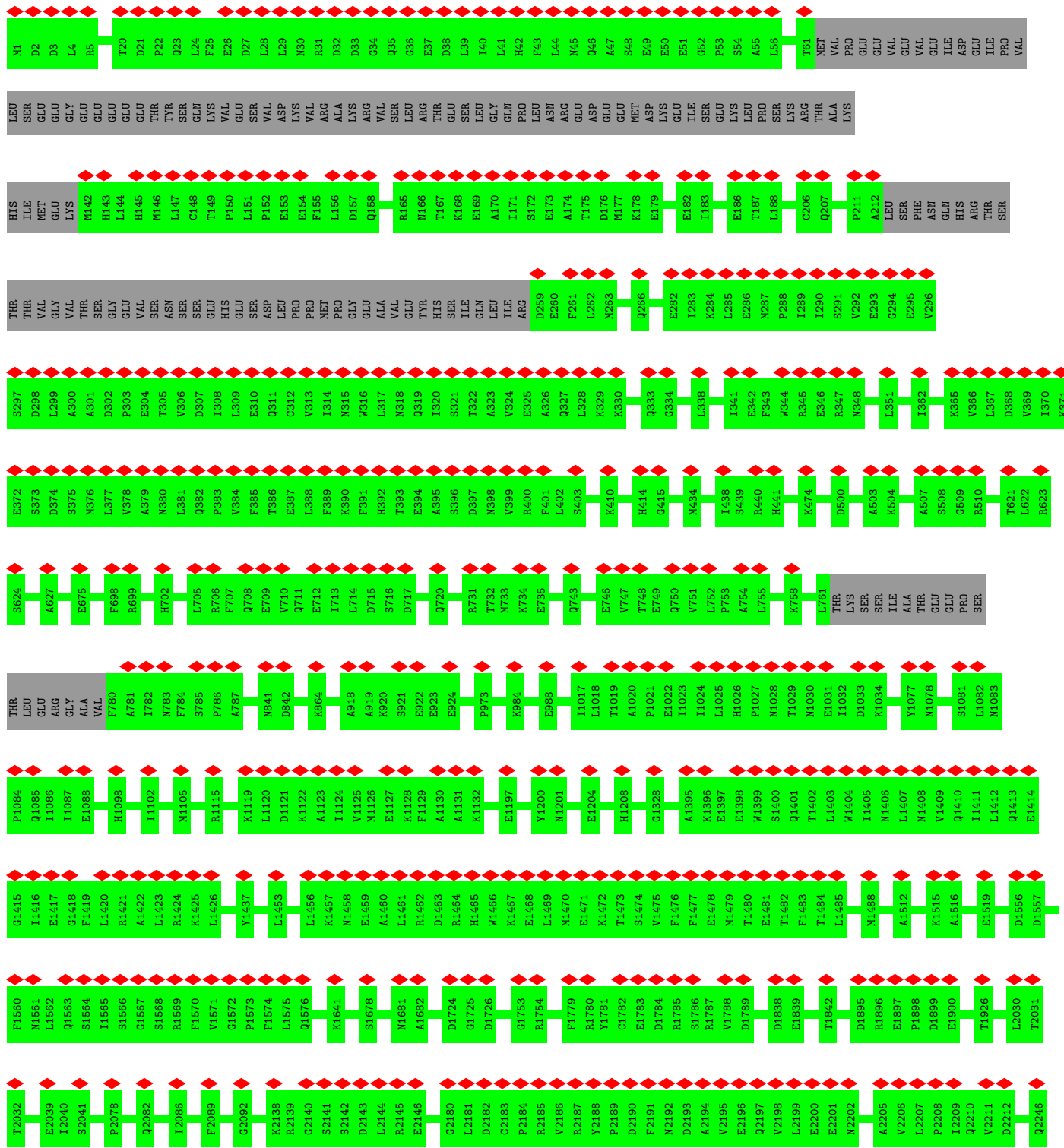


- Molecule 90: Dynein light chain roadblock-type 2





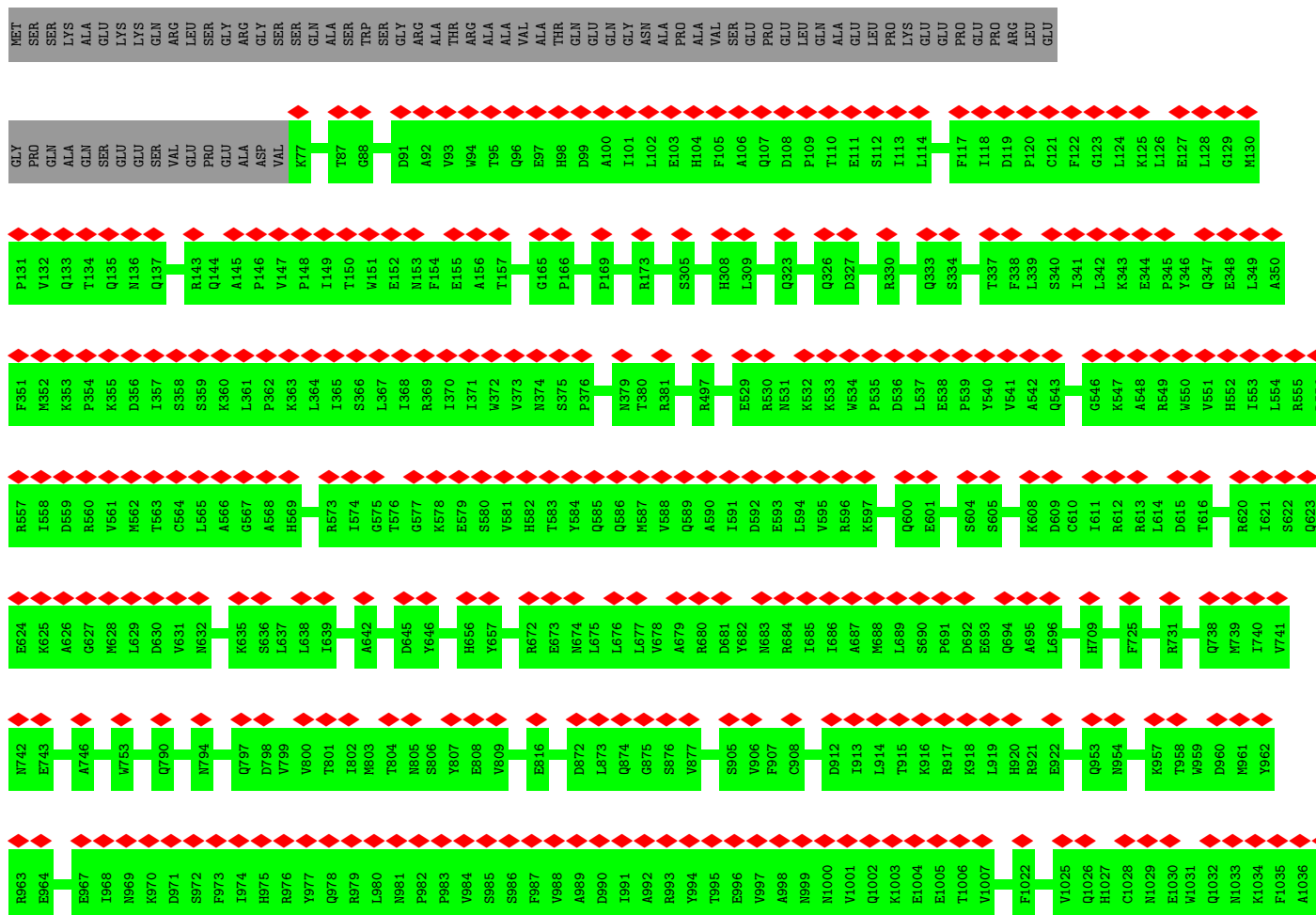
• Molecule 91: Dynein axonemal heavy chain 10



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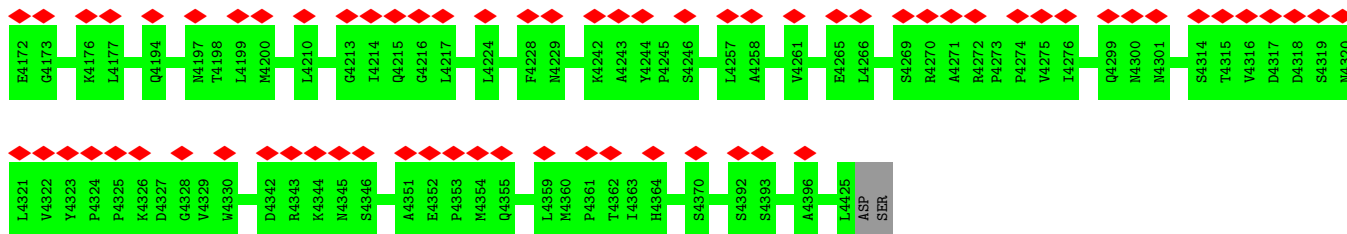
• Molecule 92: Dynein axonemal heavy chain 2



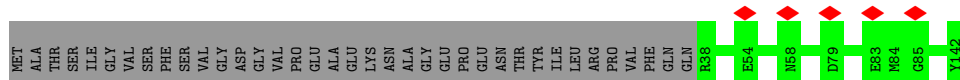
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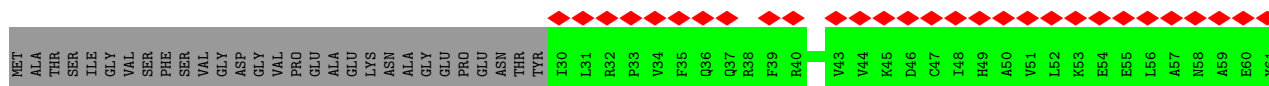
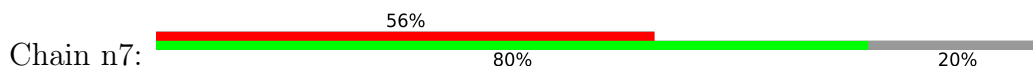
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F4085	A3878	G3952	G3813	N3752	Q3612	Q3612	E3552	E3476	N3389	R3329	K3267	G3207
L3953	R3879	L3953	S3814	S3753	F3686	R3613	D3553	Y3477	R3390	D3330	K3268	R3208
K3954	L3880	F3954	F3815	F3754	F3687	A3614	E3554	N3478	R3391	E3331	S3269	L3209
A3955	F3881	E3755	F3816	E3756	H3689	R3615	L3555	T3479	A3392	I3332	E3270	Y3210
M3956	R3882	Q3756	L3817	Y3757	M3690	I3616	L3556	N3480	A3399	R3333	E3271	R3211
M3957	E3883	P3758	E3818	F3758	C3691	L3617	R3557	F3481	Q3400	N3334	M3272	V3212
G4090	G3884	R3759	F3819	F3759	A3692	F3618	L3558	R3482	A3401	Q3335	E3273	V3213
S4091	V3885	D3760	F3820	F3760	K3693	F3619	L3559	F3483	L3402	I3336	E3274	E3214
A4093	L3822	M3761	L3621	M3761	L3694	L3621	E3561	Y3484	K3403	W3337	K3275	F3215
S4094	N3823	H3762	N3622	N3622	A3500	A3500	A3562	A3500	M3404	I3338	L3276	K3216
Y4095	K3824	L3763	T3663	T3663	K3501	K3501	T3562	K3501	I3405	G3339	E3277	R3217
K4096	K3825	W3764	G3635	L3566	T3502	T3502	T3563	T3502	K3406	K3340	R3278	I3218
V4098	S3826	Y3765	S3633	S3567	F3507	A3508	S3564	F3507	M3408	W3342	G3280	R3219
E4099	V3827	T3766	L3636	L3567	A3509	A3509	S3565	A3509	E3409	E3343	M3281	N3221
F4099	F3828	N3767	D3636	L3567	K3510	V3509	D3568	A3508	M3408	L3344	V3283	A3223
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L4101	D3830	A3769	Y3638	D3569	E3511	E3511	Q3412	K3510	Q3412	Q3347	G3286	A3225
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G4104	P3833	K3772	L3641	V3573	L3514	L3514	K3415	L3514	K3415	P3350	G3288	R3228
M4105	R3834	A3773	F3642	N3574	E3515	E3515	I3416	E3515	I3416	F3352	E3289	K3229
M4106	S3835	M3774	I3643	T3575	A3516	A3516	S9422	A3516	S9422	R3352	K3290	R3230
P4107	L3837	P3776	L3644	L3576	Q3517	Q3517	D3423	Q3517	D3423	A3353	A3291	Q3231
P4115	V3838	G3777	S3645	H3577	L3518	L3518	Y3424	Y3424	Y3424	I3354	R3292	A3232
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P3947	T3948	E3780	K3648	K3580	S3621	S3621	I3427	I3427	I3427	L3358	E3299	E3239
S3949	S3949	N3781	S3649	L3581	V3522	V3522	L3428	L3428	L3428	L3358	T3296	E3236
A3850	A3850	A3782	H3650	T3582	R3523	R3523	E3429	E3429	E3429	C3359	V3297	A3237
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L3852	L3852	M3786	S3652	T3584	K3525	K3525	A3431	A3431	A3431	P3361	G3299	E3239
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E3856	E3856	K3789	R3657	Q3589	E3529	E3529	Y3436	Y3436	Y3436	D3366	L3304	V3244
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G3859	G3859	V3792	D3660	T3592	Q3533	Q3533	M9456	M9456	M9456	I3369	L3307	K3247
A3860	A3860	S3794	Y3661	S3593	K3534	K3534	A3460	A3460	A3460	Q3370	L3308	L3248
Q3862	Q3862	L3795	L3662	E3594	D3535	D3535	R3461	R3461	R3461	G3371	G3309	E3249
F3864	F3864	R3796	D3664	T3596	S3536	S3536	I3462	I3462	I3462	L3372	D3310	M3250
R3865	R3865	Q3797	Y3665	E3597	L3537	L3537	G3463	G3463	G3463	S3373	C3311	L3251
H3866	H3866	D3798	H3666	F3598	V3538	V3538	G3464	G3464	G3464	S3374	L3312	K3252
A3866	A3866	E3740	T3667	L3598	L3539	L3539	R3465	R3465	R3465	D3375	L3313	Q3254
L3867	L3867	L3741	Y3668	T3600	I3541	I3541	L3466	L3466	L3466	F3377	A3314	Q3254
S3868	S3868	D3742	A3669	D3601	A3542	A3542	L3467	L3467	L3467	S3378	A3315	Y3255
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G3870	G3870	L3744	Y3671	R3604	G3544	G3544	R3469	R3469	R3469	E3380	F3317	E3257
Q3871	Q3871	T3745	R3672	R3604	K3545	K3545	L3470	L3470	L3470	N3381	L3318	K3258
G3872	G3872	M3746	Y3673	E3605	R3546	R3546	I3471	I3471	I3471	S3382	S3319	L3259
Q3873	Q3873	F3747	T3674	A3606	K3547	K3547	G3471	G3471	G3471	I3383	Y3320	A3260
A3874	A3874	H3748	C3675	Y3607	L3548	L3548	D3472	D3472	D3472	L3384	M3321	K3261
P3875	P3875	G3749	R3676	R3608	K3549	K3549	K3473	K3473	K3473	V3385	L3325	E3263
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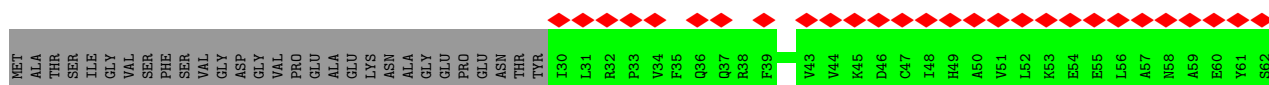
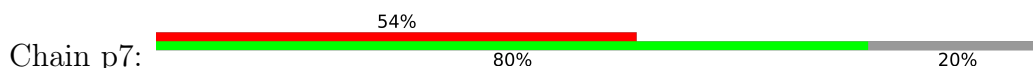
• Molecule 93: Dynein light chain Tctex-type protein 2B



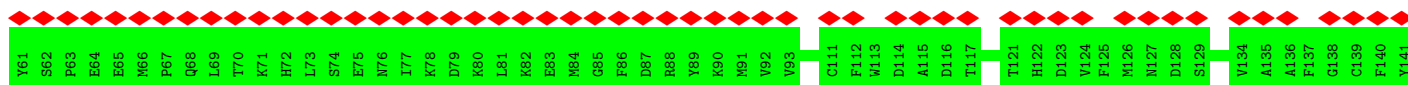
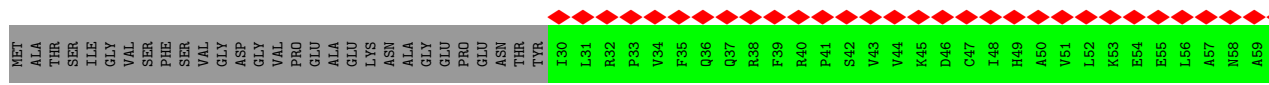
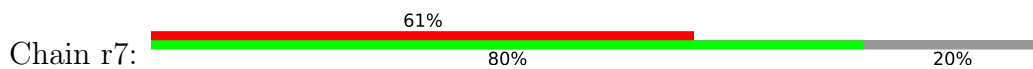
• Molecule 93: Dynein light chain Tctex-type protein 2B



• Molecule 93: Dynein light chain Tctex-type protein 2B

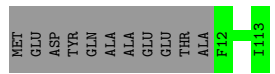
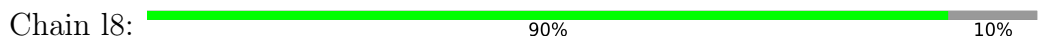


• Molecule 93: Dynein light chain Tctex-type protein 2B

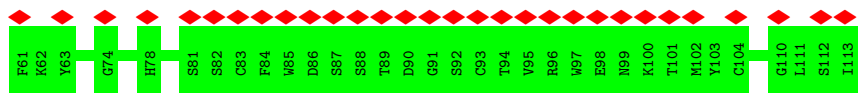
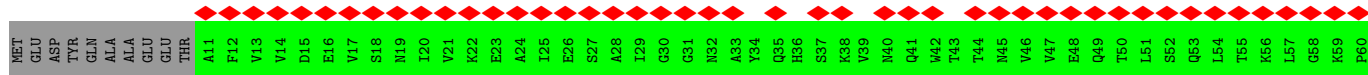
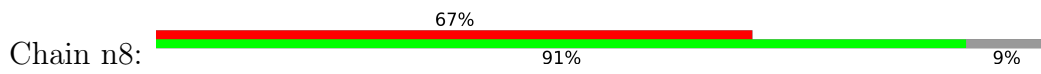


Y142

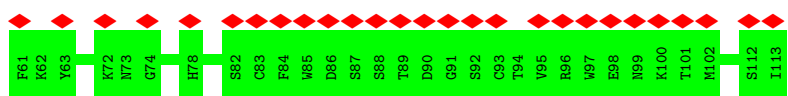
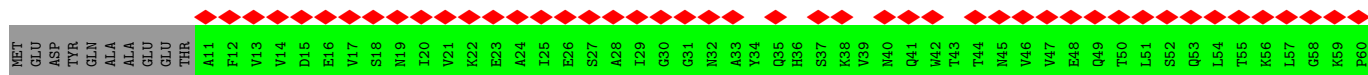
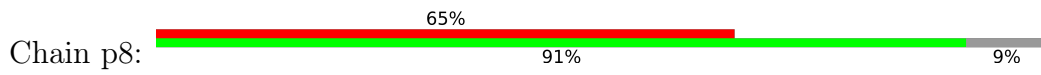
Molecule 94: Dynein light chain Tctex-type 1



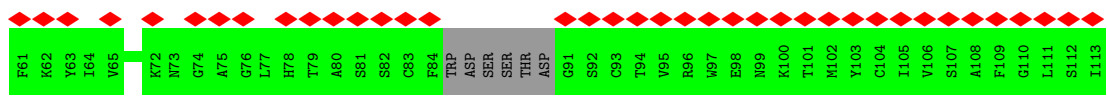
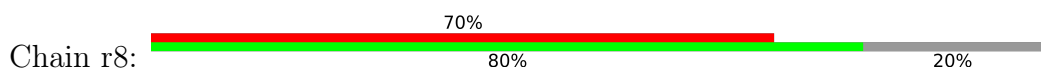
Molecule 94: Dynein light chain Tctex-type 1



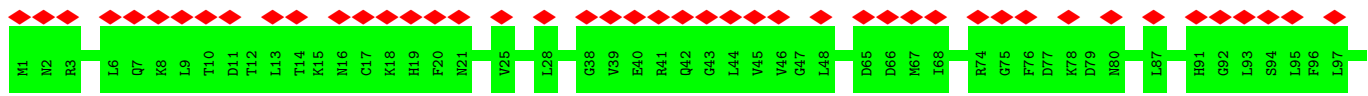
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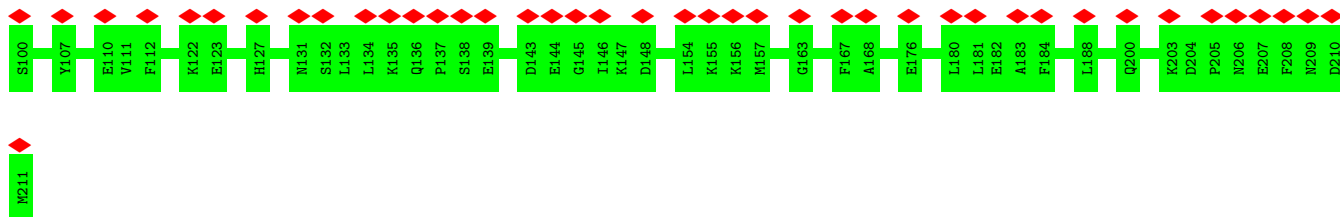


Molecule 94: Dynein light chain Tctex-type 1

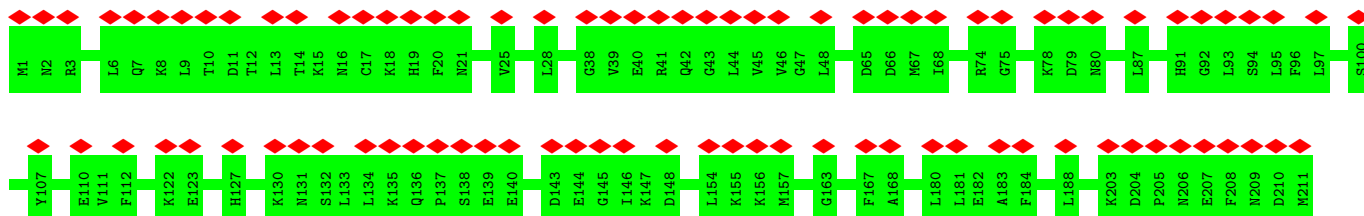
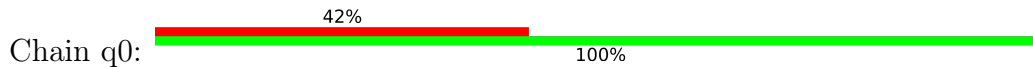


Molecule 95: Calaxin

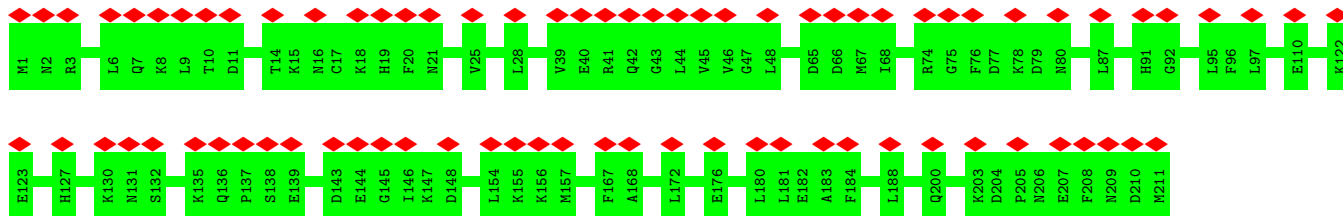




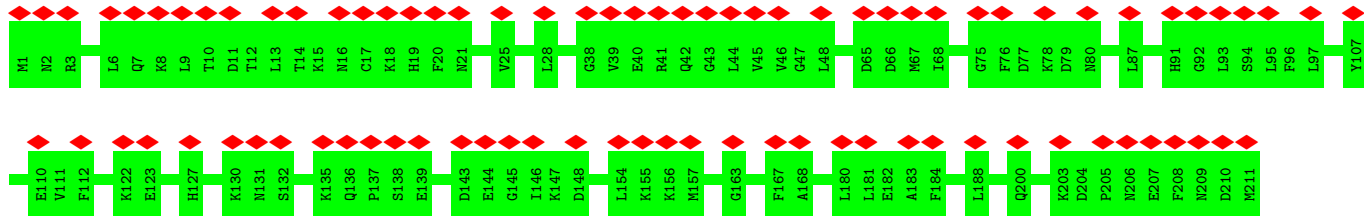
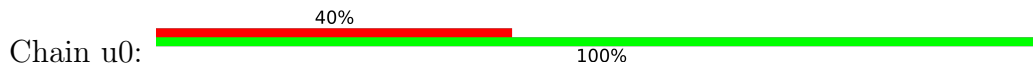
• Molecule 95: Calaxin



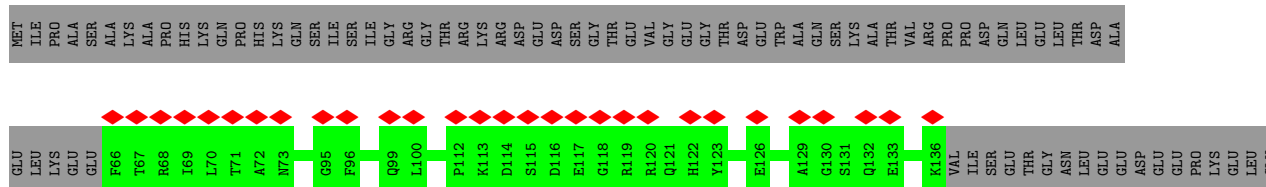
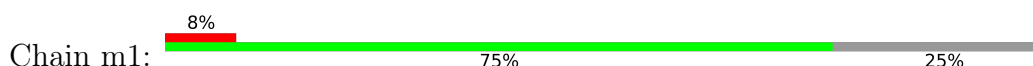
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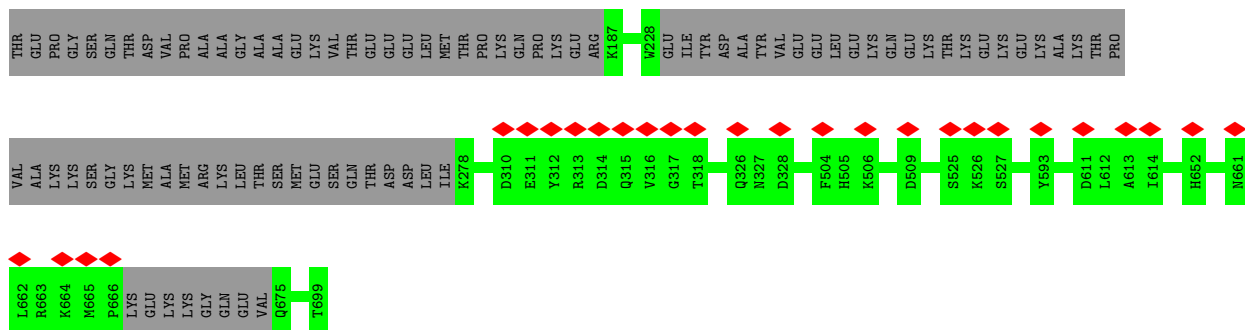


• Molecule 95: Calaxin

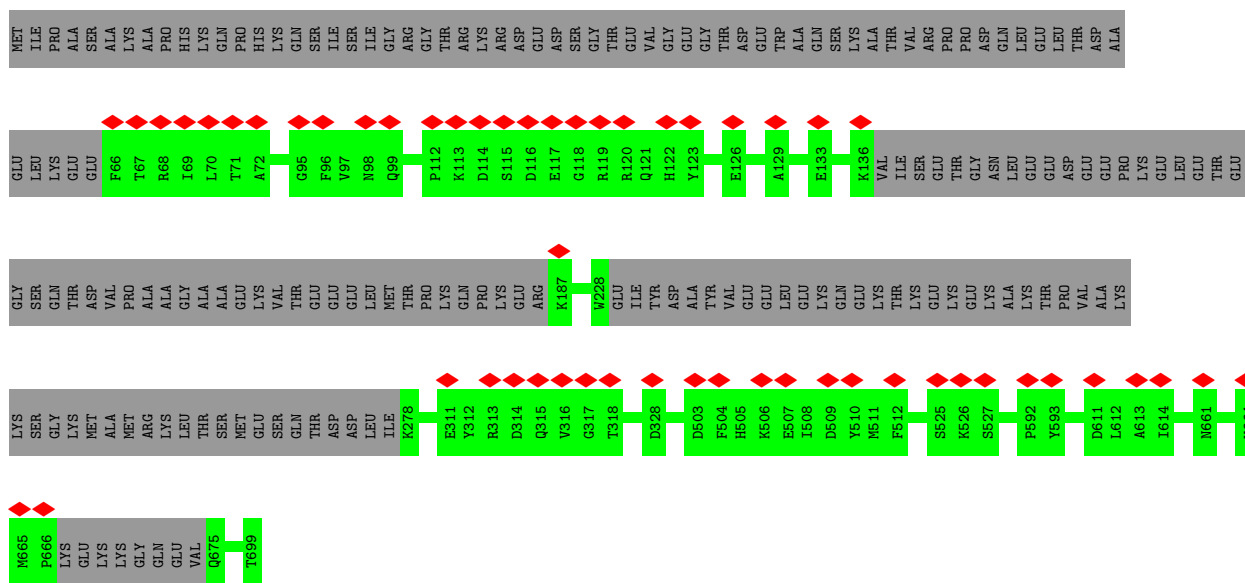
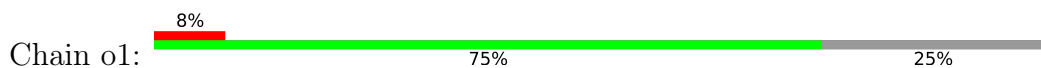


• Molecule 96: Dynein axonemal intermediate chain 1

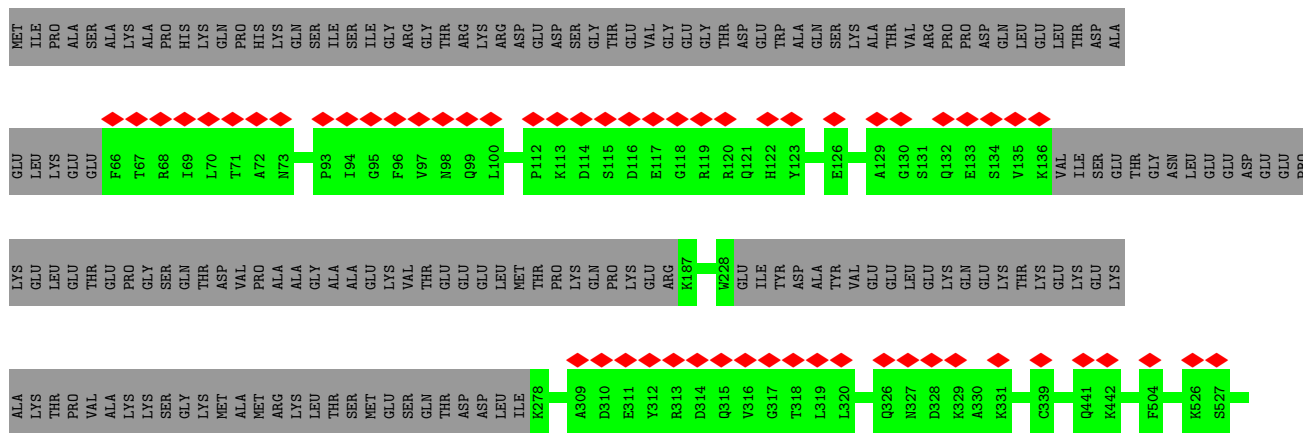
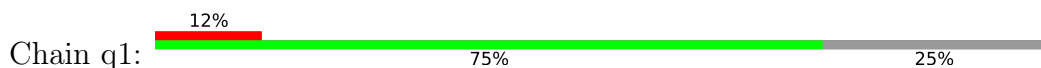


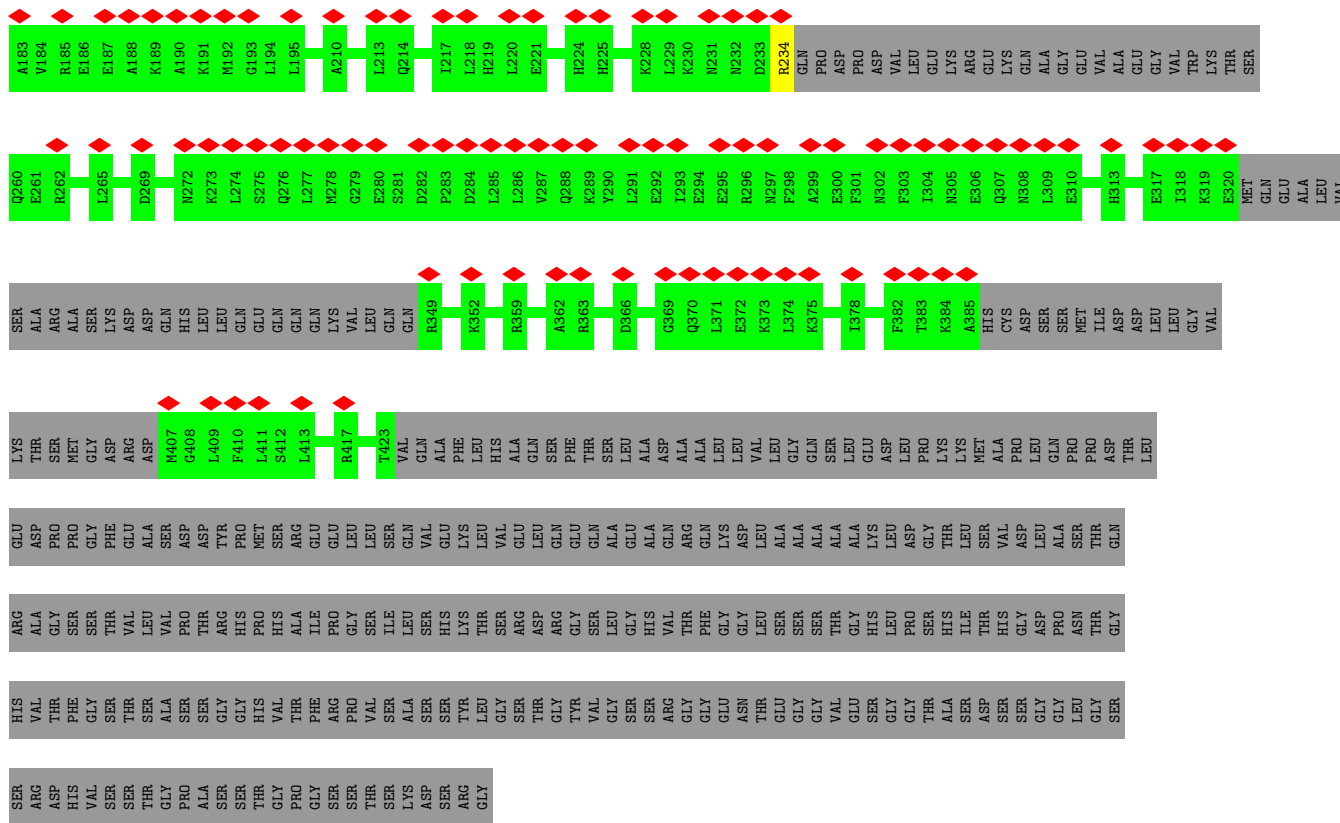


• Molecule 96: Dynein axonemal intermediate chain 1

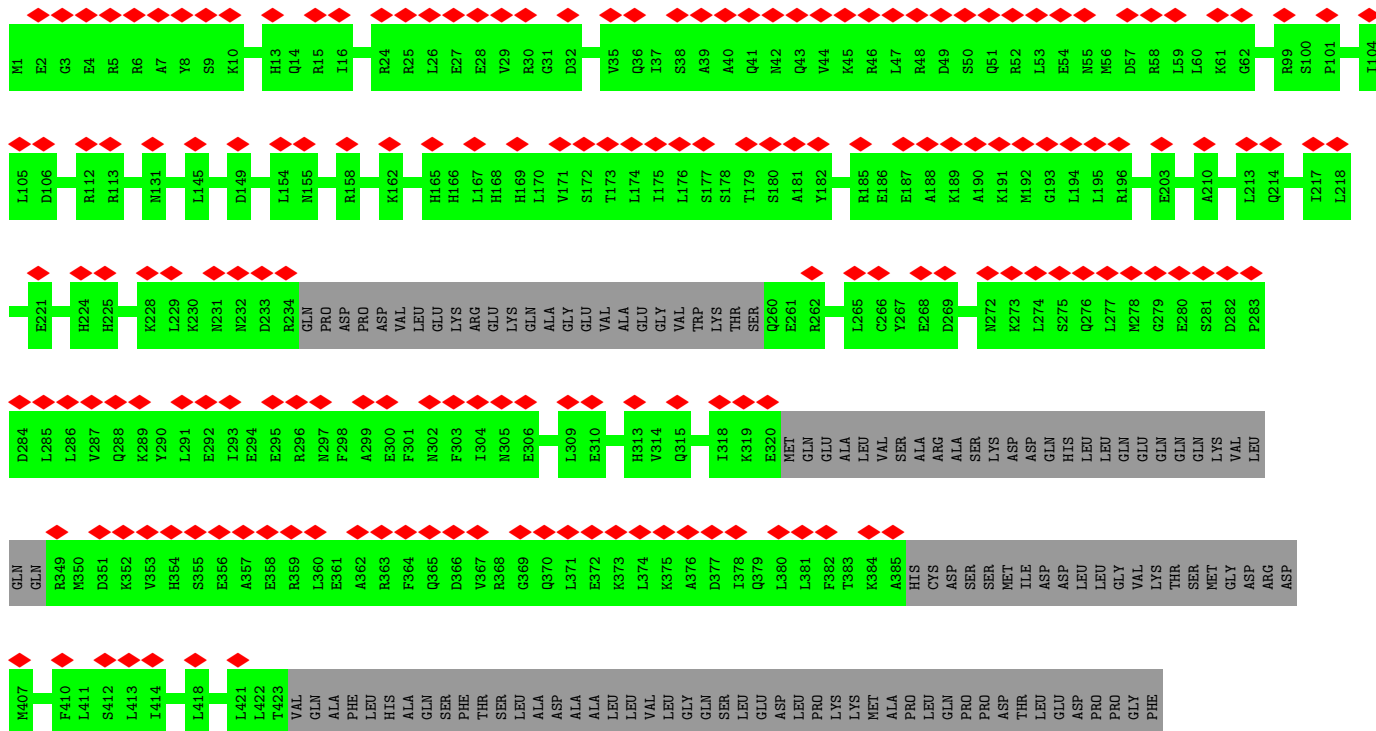


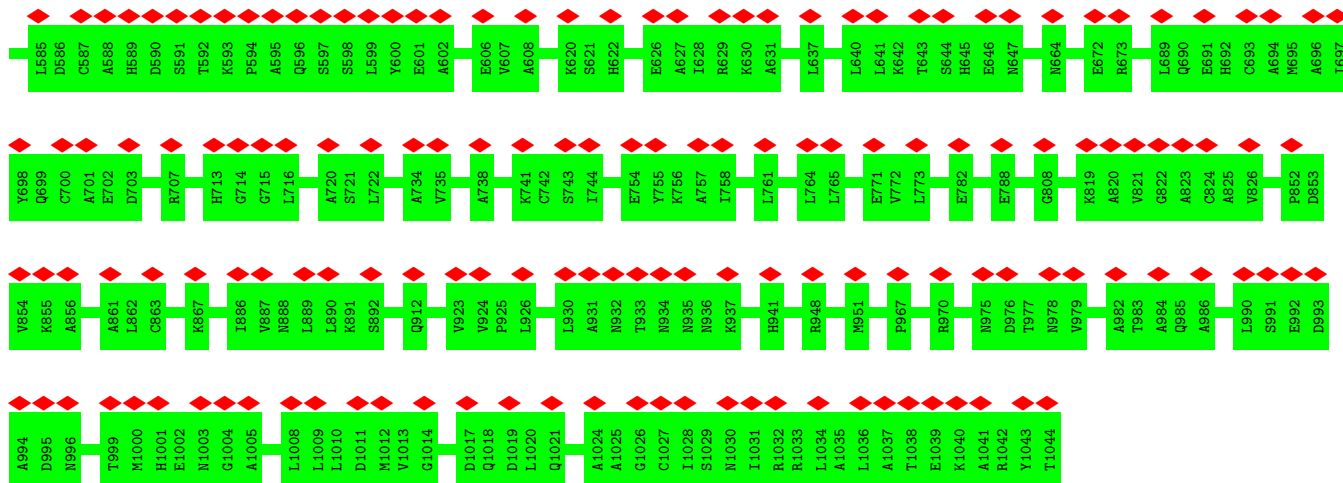
• Molecule 96: Dynein axonemal intermediate chain 1



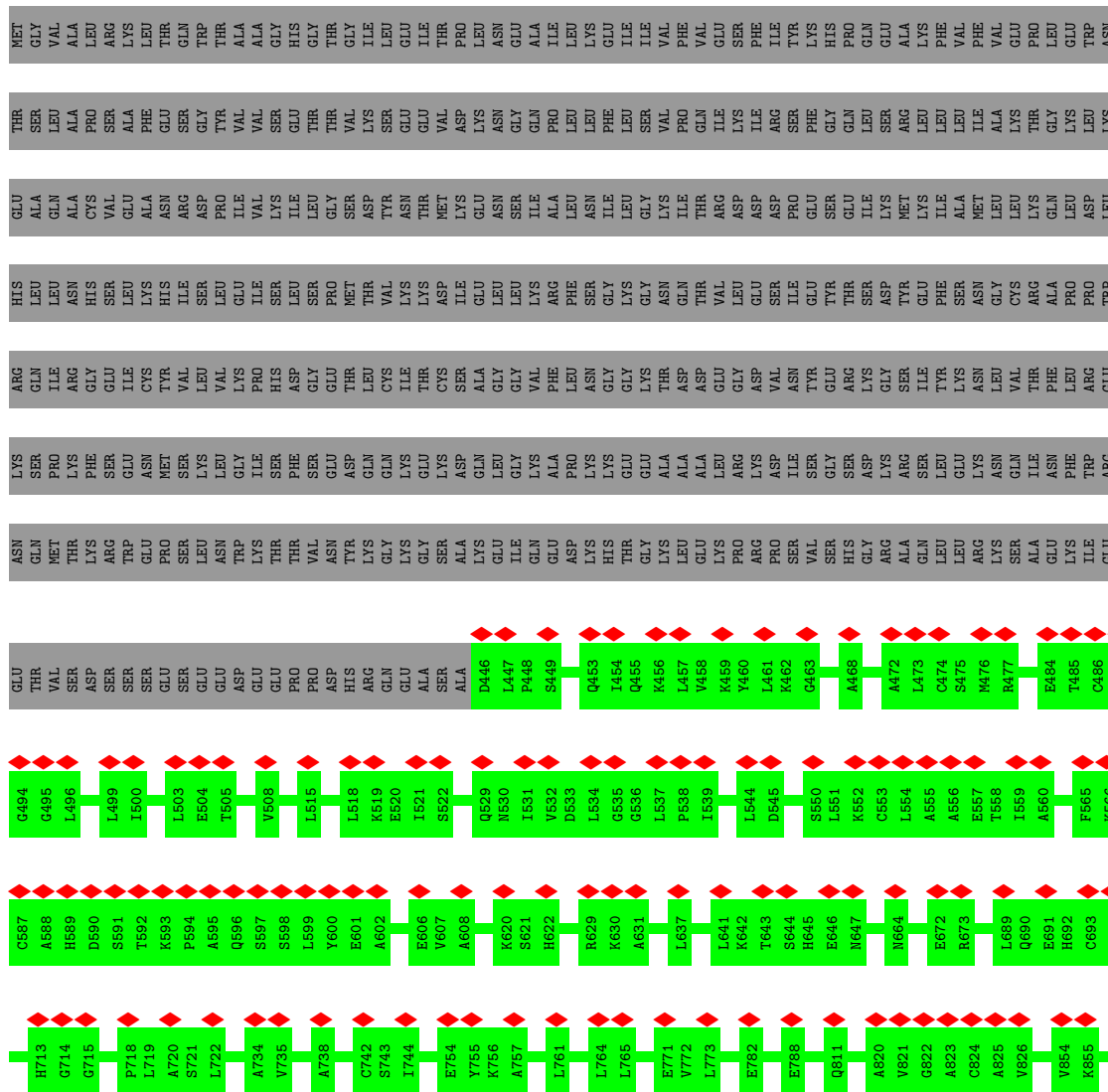


• Molecule 99: Outer dynein arm-docking complex subunit 1





● Molecule 100: Outer dynein arm-docking complex subunit 2



F1639	V1640	G1641	G1642	D1643	I1644	A1645	K1646	Q1647	L1648	P1649	K1650	E1651	A1652	K1653	R1654	F1655	S1656	M1657	I1658	D1659	K1660	S1661	W1662	V1663	K1664	I1665	M1666	T1667	R1668	A1669	H1670	E1671	V1672	P1673	S1674	V1675	V1676	Q1677	C1678	C1679	V1680	G1681	D1682	E1683	T1684	L1685	G1686	Q1687	L1688	L1689	P1690	H1691	L1692	L1693	D1694	Q1695	L1696	E1697	I1698																																					
C1699	Q1700	K1701	S1702	L1703	T1704	G1705	Y1706	L1707	E1708	K1709	K1710	V1720	S1721	D1722	P1723	A1724	L1725	L1726	E1727	I1728	L1729	L1818	G1730	Q1731	A1732	S1733	L1734	S1735	H1736	T1737	K1753	F1754	H1755	E1756	K1757	I1758	Y1759	D1760	R1761	E1774	L1775	D1776	K1777	P1778	V1779	M1780	A1781	E1782	L1783	Q1784	G1785	V1786	H1787	S1791	E1794																																									
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R2228	Q2229	V2230	E2231	E2232	A2233	G2234	L2235	L2236	W2237	H2238	P2239	W2240	W2241	K2242	L2243	K2244	V2245	L2246	Q2247	L2248	G2257	M2258	W2259	T2260	L2261	G2262	P2263	S2264	G2265	A2266	K2268	T2269	T2270	C2271	L2272	H2273	T2274	L2275	M2276	R2277	T2280	D2281	C2282	G2283	K2284	P2285	H2286	R2287	E2288	L2289	M2290	R2291	L2292	W2293	L2294	A2295																																								
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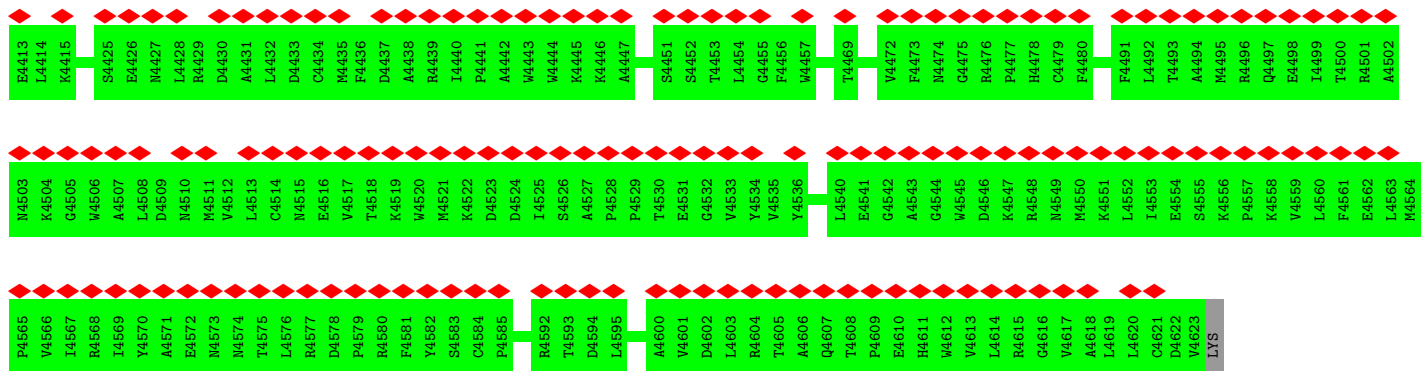
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G3092	E3093	K3094	F3095	R3096	N3097	R3098	A3099	L3100	K3101	F3102	P3103	I3106	S3107	T3131	S3132	D3133	L3135	D3136	C3137	S3138	L3139	E3140	I3141	K3142	K3143	H3193	V3194	E3195	V3196	R3197	T3198	L3199	A3200	N3201	R3202	M3203	N3204	T3205	G3206	L3207	E3208	K3209	L3210	K3211	E3212	A3213	S3214	E3215	S3216	V3217	A3218	A3219	L3220	S3221	K3222			
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G4095	W4096	A4097	L4098	L4099	Q4100	M4101	C4102	H4103	D4110	E4111	L4112	M4113	D4114	I4115	I4116	I4117	E4118	T4119	E4120	L4121	V4122	H4123	D4124	A4125	F4126	R4127	L4128	W4129	M4130	T4131	T4132	E4133	A4134	M4145	S4146	I4147	K4148	F4149	A4150	M4151	D4152	P4153	P4154	Q4214	A4215	D4216	R4158	A4159	C4160	L4161	K4162	Q4088	R4163	T4164	Y4165	S4166	C4167	V4168																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
S4169	Q4170	D4171	L4172	L4173	D4174	V4175	S4176	S4177	G4178	S4179	Q4180	W4181	K4182	L4183	M4184	L4185	Y4186	A4187	V4188	A4189	F4190	L4191	H4192	S4193	T4194	V4195	Q4196	E4197	R4198	R4199	K4200	F4201	G4202	A4203	L4204	G4205	N4206	M4207	T4208	P4209	Y4210	E4211	F4212	M4213	Q4214	A4215	D4216	F4217	M4218	L4228	D4229	D4230	M4231	D4232	V4233	K4234	K4235	G4236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
V4237	S4238	W4239	T4240	Y4244	Y4251	G4252	G4253	R4254	V4255	T4256	D4257	D4258	Y4259	D4260	K4261	R4262	L4263	L4264	M4265	T4266	F4267	A4268	K4269	V4270	M4271	F4272	S4273	E4274	R4275	M4276	F4277	G4278	P4279	D4280	F4281	S4282	F4283	Y4284	Q4285	G4286	Y4287	N4288	I4289	P4290	K4291	C4292	S4293	T4294	V4295	D4296	M4297	Y4298	L4299	Q4300	Y4301	I4302	Q4303																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
S4304	L4305	P4306	A4307	Y4308	D4309	S4310	P4311	A4312	V4313	F4314	Q4315	L4316	H4317	P4318	M4319	A4320	D4321	L4322	T4323	Y4324	Q4325	S4326	K4327	L4328	A4329	K4330	D4331	V4332	D4333	L4334	D4335	T4336	L4337	G4338	S4345	G4346	G4347	G4348	D4349	E4350	A4354	V4355	V4356	M4427	R4428	D4430	D4361	M4363	L4364	E4365	K4366	L4367	P4368	P4369	D4370																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Y4371	V4372	P4373	F4374	E4375	V4376	K4377	E4378	L4379	L4380	Q4381	K4382	G4383	G4384	P4385	F4386	Q4387	M4388	M4389	M4390	I4391	F4392	L4393	R4394	Q4395	Q4401	R4402	V4403	L4404	S4405	L4406	T4407	R4408	S4409	T4410	L4411	T4412	E4413	L4414	K4415	L4416	M4424	S4425	E4426	M4427	R4428	D4430	A4431	L4432	D4433	C4434	M4435	F4436	D4437	A4438	R4439	I4440																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
P4441	A4442	W4443	W4444	K4445	K4446	S4452	T4453	L4454	I4462	M4465	S4466	T4469	S4470	W4471	V4472	F4473	M4474	C4475	R4476	P4477	H4478	C4479	F4480	W4481	M4482	F4485	P4488	Q4489	G4490	F4491	L4492	T4493	A4494	M4495	R4496	Q4497	E4498	I4499	T4500	R4501	A4502	M4503	K4504	C4505	W4506	A4507	L4508	D4509	M4510	M4511	V4512	L4513	C4514																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
M4515	E4516	V4517	T4518	K4519	M4520	M4521	K4522	D4523	D4524	I4525	S4526	A4527	P4528	P4529	T4530	E4531	G4532	V4533	Y4534	V4535	Y4536	L4540	E4541	G4542	A4543	G4544	W4545	D4546	K4547	R4548	M4549	M4550	K4551	L4552	I4553	E4554	S4555	K4556	P4557	K4558	V4559	L4560	F4561	E4562	L4563	M4564	P4565	V4566	I4567	R4568	I4569	Y4570	A4571	E4572	M4573	M4574	T4575	L4576																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
R4577	D4578	P4579	R4580	F4581	Y4582	S4583	C4584	P4585	V4591	R4592	T4593	D4594	I4598	A4599	A4600	V4601	D4602	L4603	R4604	T4605	A4606	Q4607	T4608	P4609	E4610	H4611	W4612	V4613	L4614	R4615	G4616	V4617	A4618	C4621	D4622	V4623	LYS	M4624	M4625	M4626	M4627	M4628	M4629	M4630	M4631	M4632	M4633	M4634	M4635	M4636	M4637	M4638	M4639	M4640	M4641	M4642	M4643	M4644	M4645	M4646	M4647	M4648	M4649	M4650	M4651	M4652	M4653	M4654	M4655	M4656	M4657	M4658	M4659	M4660	M4661	M4662	M4663	M4664	M4665	M4666	M4667	M4668	M4669	M4670	M4671	M4672	M4673	M4674	M4675	M4676	M4677	M4678	M4679	M4680	M4681	M4682	M4683	M4684	M4685	M4686	M4687	M4688	M4689	M4690	M4691	M4692	M4693	M4694	M4695	M4696	M4697	M4698	M4699	M4700	M4701	M4702	M4703	M4704	M4705	M4706	M4707	M4708	M4709	M4710	M4711	M4712	M4713	M4714	M4715	M4716	M4717	M4718	M4719	M4720	M4721	M4722	M4723	M4724	M4725	M4726	M4727	M4728	M4729	M4730	M4731	M4732	M4733	M4734	M4735	M4736	M4737	M4738	M4739	M4740	M4741	M4742	M4743	M4744	M4745	M4746	M4747	M4748	M4749	M4750	M4751	M4752	M4753	M4754	M4755	M4756	M4757	M4758	M4759	M4760	M4761	M4762	M4763	M4764	M4765	M4766	M4767	M4768	M4769	M4770	M4771	M4772	M4773	M4774	M4775	M4776	M4777	M4778	M4779	M4780	M4781	M4782	M4783	M4784	M4785	M4786	M4787	M4788	M4789	M4790	M4791	M4792	M4793	M4794	M4795	M4796	M4797	M4798	M4799	M4800	M4801	M4802	M4803	M4804	M4805	M4806	M4807	M4808	M4809	M4810	M4811	M4812	M4813	M4814	M4815	M4816	M4817	M4818	M4819	M4820	M4821	M4822	M4823	M4824	M4825	M4826	M4827	M4828	M4829	M4830	M4831	M4832	M4833	M4834	M4835	M4836	M4837	M4838	M4839	M4840	M4841	M4842	M4843	M4844	M4845	M4846	M4847	M4848	M4849	M4850	M4851	M4852	M4853	M4854	M4855	M4856	M4857	M4858	M4859	M4860	M4861	M4862	M4863	M4864	M4865	M4866	M4867	M4868	M4869	M4870	M4871	M4872	M4873	M4874	M4875	M4876	M4877	M4878	M4879	M4880	M4881	M4882	M4883	M4884	M4885	M4886	M4887	M4888	M4889	M4890	M4891	M4892	M4893	M4894	M4895	M4896	M4897	M4898	M4899	M4900	M4901	M4902	M4903	M4904	M4905	M4906	M4907	M4908	M4909	M4910	M4911	M4912	M4913	M4914	M4915	M4916	M4917	M4918	M4919	M4920	M4921	M4922	M4923	M4924	M4925	M4926	M4927	M4928	M4929	M4930	M4931	M4932	M4933	M4934	M4935	M4936	M4937	M4938	M4939	M4940	M4941	M4942	M4943	M4944	M4945	M4946	M4947	M4948	M4949	M4950	M4951	M4952	M4953	M4954	M4955	M4956	M4957	M4958	M4959	M4960	M4961	M4962	M4963	M4964	M4965	M4966	M4967	M4968	M4969	M4970	M4971	M4972	M4973	M4974	M4975	M4976	M4977	M4978	M4979	M4980	M4981	M4982	M4983	M4984	M4985	M4986	M4987	M4988	M4989	M4990	M4991	M4992	M4993	M4994	M4995	M4996	M4997	M4998	M4999	M5000	M5001	M5002	M5003	M5004	M5005	M5006	M5007	M5008	M5009	M5010	M5011	M5012	M5013	M5014	M5015	M5016	M5017	M5018	M5019	M5020	M5021	M5022	M5023	M5024	M5025	M5026	M5027	M5028	M5029	M5030	M5031	M5032	M5033	M5034	M5035	M5036	M5037	M5038	M5039	M5040	M5041	M5042	M5043	M5044	M5045	M5046	M5047	M5048	M5049	M5050	M5051	M5052	M5053	M5054	M5055	M5056	M5057	M5058	M5059	M5060	M5061	M5062	M5063	M5064	M5065	M5066	M5067	M5068	M5069	M5070	M5071	M5072	M5073	M5074	M5075	M5076	M5077	M5078	M5079	M5080	M5081	M5082	M5083	M5084	M5085	M5086	M5087	M5088	M5089	M5090	M5091	M5092	M5093	M5094	M5095	M5096	M5097	M5098	M5099	M5100	M5101	M5102	M5103	M5104	M5105	M5106	M5107	M5108	M5109	M5110	M5111	M5112	M5113	M5114	M5115	M5116	M5117	M5118	M5119	M5120	M5121	M5122	M5123	M5124	M5125	M5126	M5127	M5128	M5129	M5130	M5131	M5132	M5133	M5134	M5135	M5136	M5137	M5138	M5139	M5140	M5141	M5142	M5143	M5144	M5145	M5146	M5147	M5148	M5149	M5150	M5151	M5152	M5153	M5154	M5155	M5156	M5157	M5158	M5159	M5160	M5161	M5162	M5163	M5164	M5165	M5166	M5167	M5168	M5169	M5170	M5171	M5172	M5173	M5174	M5175	M5176	M5177	M5178	M5179	M5180	M5181	M5182	M5183	M5184	M5185	M5186	M5187	M5188	M5189	M5190	M5191	M5192	M5193	M5194	M5195	M5196	M5197	M5198	M5199	M5200	M5201	M5202	M5203	M5204	M5205	M5206	M5207	M5208	M5209	M5210	M5211	M5212	M5213	M5214	M5215	M5216	M5217	M5218	M5219	M5220	M5221	M5222	M5223	M5224	M5225	M5226	M5227	M5228	M5229	M5230	M5231	M5232	M5233	M5234	M5235	M5236	M5237	M5238	M5239	M5240	M5241	M5242	M5243	M5244	M5245	M5246	M5247	M5248	M5249	M5250	M5251	M5252	M5253	M5254	M5255	M5256	M5257	M5258	M5259	M5260	M5261	M5262	M5263	M5264	M5265	M5266	M5267	M5268	M5269	M5270	M5271	M5272	M5273	M5274	M5275	M5276	M5277	M5278	M5279	M5280	M5281	M5282	M5283	M5284	M5285	M5286	M5287	M5288	M5289	M5290	M5291	M5292	M5293	M5294	M5295	M5296	M5297	M5298	M5299	M5300	M5301	M5302	M5303	M5304	M5305	M5306	M5307	M5308	M5309	M5310	M5311	M5312	M5313	M5314	M5315	M5316	M5317	M5318	M5319	M5320	M5321	M5322	M5323	M5324	M5325	M5326	M5327	M5328	M5329	M5330	M5331	M5332	M5333	M5334	M5335	M5336	M5337	M5338	M5339	M5340	M5341	M5342	M5343	M5344	M5345	M5346	M5347	M5348	M5349	M5350	M5351	M5352	M5353	M5354	M5355	M5356	M5357	M5358	M5359	M5360	M5361	M5362	M5363	M5364	M5365	M5366	M5367	M5368	M5369	M5370	M5371	M5372	M5373	M5374	M5375	M5376	M5377	M5378	M5379	M5380	M5381	M5382	M5383	M5384	M5385	M5386	M5387	M5388	M5389	M5390	M5391	M5392	M5393	M5394	M5395	M5396	M5397	M5398	M5399	M5400	M5401	M5402	M5403	M5404	M5405	M5406	M5407	M5408	M5409	M5410	M5411	M5

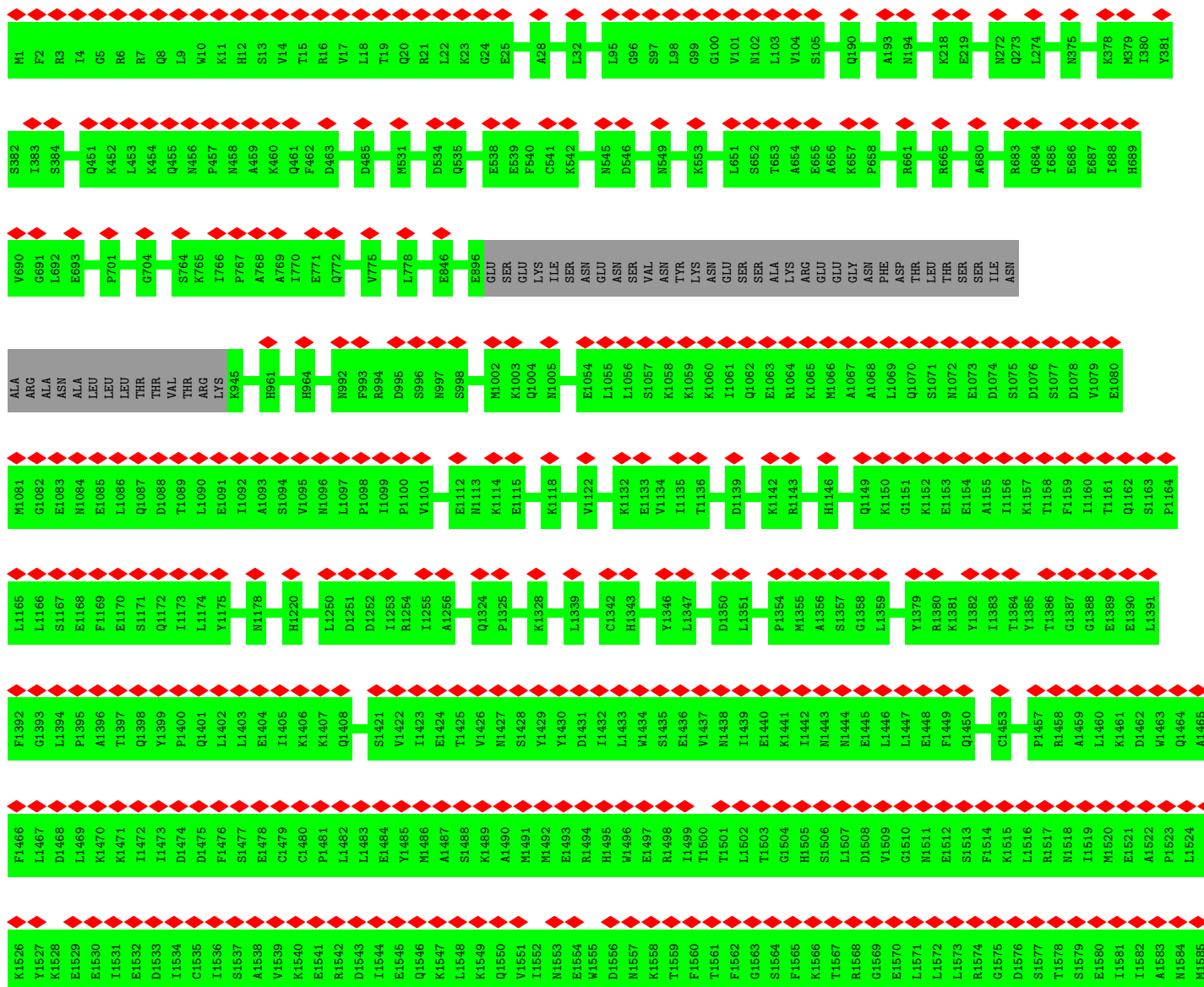
LEU	LEU	THR	THR	VAL	THR	ARG	LYS	R946	A994	D995	S996	K1059	I1060	I1061	Q1062	E1063	K1064	K1065	M1066	A1067	I1068	L1069	Q1070	S1071	M1072	L1073	D1074	S1075	D1076	K1261	D1078	V1079	E1080	M1081	G1082	E1083	M1084	E1085	L1086	Q1087	D1088	T1089	L1090	E1091	I1092	A1093	S1094	M1095	M1096	L1097	P1098	I1099	P1100	V1101	G1151	K1152	E1153	E1154	A1155	I1156	K1157	T1158	F1159	I1160	T1161	Q1162	P1164	L1165	L1166	S1167	E1168	F1169	E1170	S1171	L1174	I1253	R1254	I1255	A1256	M1257	A1258	A1259	L1260	K1261	E1262	I1263	E1266	S1269	Q1273	P1276	I1277	E1284	Q1344	L1347	D1348	L1351	M1352	M1355	A1356	S1357	G1358	L1359	K1360	M1370	M1373	Q1374	E1390	G1393	L1394	P1395	A1396	T1397	Q1398	Y1399	P1400	L1403	E1404	S1421	V1422	I1423	E1424	T1425	V1426	M1427	S1428	Y1429	Y1430	D1431	I1432	L1433	A1434	S1435	E1436	V1437	M1438	I1439	E1440	K1441	L1442	M1443	M1444	E1445	S1506	L1450	E1448	F1449	Q1450	M1451	E1512	S1513	C1453	R1454	P1457	R1458	A1459	L1460	K1461	D1462	V1463	Q1464	L1467	D1468	L1469	K1470	K1471	I1472	I1473	D1474	D1475	F1476	S1477	E1478	C1479	C1480	P1481	L1482	L1483	E1484	Y1485	M1486	A1487	S1488	K1489	A1490	M1491	E1492	E1493	R1494	H1495	V1496	E1497	R1498	I1499	T1500	L1501	L1502	T1503	G1504	H1505	S1506	L1507	D1508	V1509	G1510	M1511	E1512	S1513	F1514	K1515	L1516	R1517	I1518	I1519	M1520	A1522	P1523	L1524	L1525	K1526	K1527	K1528	E1529	E1530	I1531	E1532	D1533	I1534	C1535	I1536	S1537	A1538	V1539	K1540	E1541	D1542	D1543	I1544	E1545	V1546	K1547	L1548	K1549	Q1550	M1553	D1556	M1557	K1558	T1559	F1560	T1561	F1562	S1564	F1565	L1566	T1567	R1568	G1569	E1570	L1571	L1572	G1573	R1574	G1575	D1576	S1577	T1578	S1579	E1580	I1581	I1582	A1583	E1586	H1590	G1593	S1594	L1595	L1596	S1597	M1598	F1599	Y1600	M1601	M1602	P1603	F1604	A1606	I1608	Q1609	K1610	Q1613	Y1614	D1620	I1621	I1622	E1623	S1624	M1625	L1626	T1627	V1628	Q1629	M1630	L1631	I1633	Y1634	L1635	E1636	A1637	V1638	F1639	V1640	G1641	G1642	I1643	I1644	A1645	M1646	Q1647	Q1648	L1648	P1649	K1650	I1651	A1652	K1653	R1654	F1655	S1656	M1657	L1658	D1659	K1660	S1661	M1662	V1663	K1664	I1665	M1666	T1667	R1668	A1669	H1670	E1671	V1672	S1673	S1674	V1675	V1676	Q1677	C1678	V1680	G1681	D1682	E1683	T1684	L1685	G1686	Q1687	L1688	L1689	P1690	H1691	L1692	L1693	D1694	Q1695	L1696	E1697	L1698	C1699	Q1700	K1701	G1702	L1703	T1704	G1705	V1706	L1707	E1708	K1709	K1710	R1711	L1712	C1713	F1717	V1720	S1721	D1722	P1723	A1724	L1725	L1726	E1727	L1728	L1729	G1730	Q1731	A1732	S1733	D1734	S1735	H1736	T1737	I1738	Q1739	A1740	H1741	M1744	K1753	F1754	H1755	E1756	K1757	I1758	Y1759	D1760	R1761	T1772	I1773	E1774	L1775	D1776	K1777	P1778	V1779	M1780	A1781	E1782	G1783	M1784	V1785	E1786	V1787	M1788	S1791	E1794	E1795	S1798	S1799	H1801	L1802	V1803	I1804	R1805	Q1806	A1807	A1808	A1809	M1810	I1811	Q1812	E1813	T1814	G1815	F1816	Q1817	E1820	S1824	I1837	R1840	D1841	S1842	E1843	E1844	A1845	L1846	R1847	M1848	A1849	K1850	F1851	D1852	K1853	K1854	I1855	M1856	Q1857	K1858	T1859	A1862	M1906	H1907	I1908	K1909	S1910	P1911	M1912	Y1923	F1924	M1925	E1926	D1927	S1928	D1929	K1930	G1975	G1976	A1977	P1978	A1979	G1980	P1981	A1982	V2003	F2004	N2005	Q2009	M2010	R2013	R2017	C2030	F2031	D2032	E2033	R2036	T2054	K2057	E2058	H2059	K2060	K2061	S2062	F2063	I2064	D2067	G2068	D2069	M2070	L2079	F2080	L2081	T2082	M2083	N2084	P2085	G2086	Y2087	A2088	G2089	E2095	N2096	L2097	K2098	T2099	M2100	F2101	R2102	S2103	V2104	A2105	K2139	L2145	S2146	K2147	V2149	H2150	Y2151	D2152	F2153	G2154	L2155	L2190	S2191	K2192	L2193	L2194	D2195	E2196	D2197	E2198	P2199	L2200	F2201	L2202	S2203	L2204	I2205	E2206	D2207	P2210	M2211	L2212	L2213	K2216	P2220	E2221	L2222	E2223	A2224	A2225	I2226	S2227	R2228	Q2229	V2230	E2231	E2232	A2233	G2234	L2235	I2236	N2237	H2238	P2239	P2240	W2241	K2242	L2243	K2244	V2245	I2246	Q2247	L2248	T2251	H2256	G2257	M2258	N2259	T2260	L2261	G2262	P2263	G2265	A2266	G2267	K2268	T2269	T2270	C2271	I2272	H2273	T2274	L2275	M2276	R2277	A2278	M2279	T2280	D2281	C2282	G2283	K2284	P2285	H2286	R2287	E2288	M2289	R2290	M2291	N2292	F2293	K2294	A2295	L2296	T2297	A2298	P2299	Q2300	M2301	F2302	G2303	R2304	L2305	D2306	V2307	T2309	N2310	D2311	W2312	T2313	D2314	G2315	L2316	F2317	S2318	T2319	L2320	W2321	G2322	K2323	T2324	R2326	A2327	K2328	K2329	G2330	E2331	H2332	L2333	W2334	L2335	L2336	L2337	D2338	G2339	P2340	V2341	D2342	A2343	L2344	W2345	L2346	E2347	N2348
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L2349	L2350	L2359	L2360	L2361	L2362	L2363	L2364	L2365	L2366	L2367	L2368	L2369	L2370	L2371	L2372	C2373	C2374	L2375	L2376	L2377	E2378	L2379	L2380	L2381	L2382	L2383	L2384	A2385	S2386	L2387	L2388	L2389	V2390	N2393	G2394	L2395	V2396	F2397	L2398	S2399	S2400	S2401	L2402	L2403	D2404	W2405	S2406	F2407	L2408	L2409	E2410	G2411	F2412	L2413	R2414	K2415	R2416		
S2417	P2418	Q2419	E2420	A2421	E2422	I2423	L2424	R2425	Q2426	L2427	Y2428	T2429	E2430	S2431	F2432	P2433	D2434	L2435	Y2436	R2437	F2438	C2439	I2440	Q2441	N2442	L2443	E2444	Y2445	K2446	M2447	E2448	V2449	L2450	E2451	A2452	F2453	W2454	V2455	T2456	Q2457	S2458	S2459	S2460	N2461	L2462	Q2463	G2464	L2465	S2466	P2467	L2468	K2469	E2470	Q2471	G2472	E2473	V2474	S2475	S2476
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G2537	T2538	W2539	T2540	H2541	W2542	N2543	V2567	D2568	N2569	L2570	R2571	T2572	D2573	F2574	L2575	Q2577	T2578	L2579	A2580	K2581	Q2582	G2583	K2584	A2585	V2586	L2587	L2588	L2589	G2590	Q2701	F2702	L2703	A2704	A2705	L2706	L2707	H2708	P2709	G2710	G2711	K2712	R2713	N2714	D2715	E2716	P2717	Q2718	R2719	L2720	K2721	R2722	Q2723	F2724	S2725	I2726	F2727			
P2647	A2648	G2649	K2650	K2651	M2652	T2653	V2654	V2659	N2660	M2661	P2662	L2663	L2664	N2665	E2666	W2667	G2668	D2669	Q2670	V2671	E2681	Y2686	N2687	K2690	P2691	G2692	L2700	Q2701	F2702	L2703	A2704	A2705	L2706	H2708	P2709	G2710	G2711	K2712	R2713	N2714	D2715	E2716	P2717	Q2718	R2719	L2720	K2721	R2722	Q2723	F2724	S2725	I2726	F2727						
N2728	C2729	T2730	L2731	R2732	S2733	C2750	T2751	Q2752	R2753	G2754	F2755	S2756	E2757	R2772	Q2775	N2776	T2777	K2778	I2779	K2780	N2781	L2782	P2783	L2784	P2785	V2791	S2809	E2810	W2811	L2812	K2813	E2814	A2846	S2849	L2850	V2851	E2852	E2853	E2854	F2855	G2856	E2857	E2858	K2859	K2860	L2861	L2862	V2863	D2864	C2865	L2866	L2867							
F2874	L2875	R2876	D2877	A2878	P2879	E2880	A2881	A2882	G2883	E2884	L2885	S2886	E2887	A2889	D2890	T2893	P2894	E2898	P2899	I2900	F2903	S2904	H2905	L2906	K2907	E2908	R2909	L2910	N2911	M2912	F2913	L2914	Q2915	Y2917	S2918	N2918	E2919	S2920	L2921	R2922	G2923	A2924	G2925	M2926	L2968	F2971	I2972	A2973	G2974	S2977									
T2981	L2982	T2983	R2984	S2985	Y2986	N2987	T2988	S2989	N2990	L2991	M2992	E2993	D2994	L2995	K2996	V2997	Y2999	R3000	T3001	Q3004	Q3005	K3019	D3020	E3021	S3022	F3023	L3024	E3025	Y3026	N3038	L3039	F3040	A3041	R3042	D3043	E3044	I3045	D3046	E3047	I3048	N3049	S3050	D3051	L3052	A3053	S3054	V3055	M3056	K3057	K3058	A2973	F3060	P3061	F3065					
T3066	N3067	E3068	N3069	L3070	H3071	D3072	Y3073	F3074	G3092	E3093	K3094	F3095	R3096	N3097	R3098	A3099	L3100	K3101	F3102	P3103	E3127	H3128	F3129	L3130	T3131	S3132	Y3133	D3134	I3135	D3136	C3137	S3138	L3139	E3140	I3141	K3142	K3143	G3190	E3191	K3192	H3193	V3194	E3195	V3196	L3197	T3198	L3199	A3200	N3201	K3202	R3203	K3263	D3264	F3265	L3207	E3208			
K3209	L3210	K3211	E3212	A3213	S3214	E3215	S3216	V3217	A3218	A3219	L3220	S3221	K3222	E3223	L3224	A3225	A3226	K3227	E3228	K3229	E3230	L3231	Q3232	V3233	A3234	N3235	D3236	K3237	A3238	D3239	K3240	V3241	L3242	K3243	E3244	V3245	T3246	M3247	K3248	A3249	Q3250	A3251	A3252	E3253	R3314	P3315	K3256	A3257	E3258	V3259	Q3260	K3261	V3262	K3263	D3264	F3265	L3266	Q3267	A3268
I3269	V3270	D3271	S3272	L3273	S3274	K3275	D3276	K3277	A3278	L3279	A3280	E3281	E3282	K3283	L3284	E3285	A3286	A3287	K3288	P3289	A3290	L3291	E3292	E3293	A3294	E3295	A3296	A3297	L3298	Q3299	T3300	I3301	P3302	P3303	S3304	D3305	L3306	A3307	T3308	V3309	R3310	T3311	L3312	G3313	R3314	P3315	P3316	H3317	L3318	I3319	M3320	R3321	L3322	M3323	D3324	C3325	L3326	V3327	L3328
L3329	F3330	Q3331	R3332	K3333	V3334	S3335	A3336	V3337	K3338	I3339	D3340	L3341	E3342	K3343	S3344	G3345	T3346	M3347	P3348	S3349	V3350	Q3351	E3352	S3353	L3354	K3355	L3356	M3357	T3358	A3359	G3360	N3361	F3362	L3363	Q3364	N3365	L3366	Q3367	Q3368	F3369	P3370	K3371	D3372	T3373	I3374	N3375	E3376	E3377	V3378	I3379	E3380	F3381	L3382	S3383	P3384	V3385	L3386	E3387	M3388
F3389	D3390	Y3391	N3392	L3393	E3394	T3395	A3396	K3397	R3398	V3399	C3400	G3401	N3402	V3403	A3404	G3405	C3407	S3408	N3409	T3410	K3411	A3412	R3413	A3414	S3415	F3416	F3417	S3418	I3419	N3420	K3421	E3422	V3423	L3424	F3425	L3426	K3427	A3428	N3429	L3430	V3431	V3432	Q3433	I3434	N3435	R3436	H3437	L3438	L3439	A3440	K3441	Q3442	D3443	L3444	Q3445	L3446	K3447	Q3448	

A3449	A3450	L3451	I3452	D3453	K3454	K3455	A3456	E3457	L3458	D3459	V3460	V3461	K3462	A3463	E3464	V3465	K3466	K3467	A3468	K3469	T3470	E3471	K3472	K3473	T3474	L3475	L3476	E3477	D3478	A3479	E3480	R3481	C3482	R3483	H3484	K3485	K3486	K3487	T3488	A3489	S3490	T3491	L3492	L3493	S3494	G3495	L3496	A3497	E3499	K3500	E3501	K3502	K3503	T3504	E3505	S3507	D3508																																																											
E3509	F3510	A3511	A3512	Q3513	T3514	K3515	R3516	K3551	A3552	R3553	K3554	I3555	P3556	K3559	I3568	D3569	A3570	P3571	T3572	I3573	S3574	E3575	W3576	N3577	L3578	Q3579	I3604	D3605	I3669	K3670	Q3607	T3608	K3611	I3612	K3615	N3616	K3617	E3618	S3619	R3620	N3621	E3622	L3623	Q3624	I3625	T3626	I3627	D3628	L3629	N3629	H3630	L3631	Y3632	F3633	R3634																																																													
N3635	H3636	L3637	E3638	D3639	S3640	L3641	S3642	L3643	G3644	R3645	P3646	L3647	L3648	E3650	D3651	V3652	G3653	E3654	E3655	L3656	D3657	P3658	A3659	L3660	D3661	N3662	N3667	F3668	I3669	K3670	N3671	G3672	S3673	R3674	F3675	K3676	V3677	K3678	V3679	G3680	D3681	K3682	E3683	V3684	D3685	V3686	L3687	D3688	G3689	F3690	L3691	L3692	L3693	T3694	T3695	T3696	T3697	T3698	S3699	T3699	E3700	P3701	A3702	V3703	T3717	G3729	R3730	R3731	I3732	L3733	T3734	E3735	K3736	Q3737	E3738	L3739	E3740	K3741	E3742	R3743	T3744	H3745	L3746	D3747	E3748	D3749	V3750	T3751	A3752	N3753	K3754	R3755	R3756	N3757	K3758	E3759	L3760	E3761	D3762	N3763	L3764	L3765	L3766	R3767	L3768	T3769	S3770	T3771	Q3772	G3773	S3774	L3775	V3776	E3777	D3778	E3779
L3781	I3782	V3783	V3784	L3785	S3786	N3787	L3788	K3789	R3790	T3791	A3792	E3793	E3794	V3795	K3796	Q3797	K3798	L3799	E3800	K3801	S3802	A3803	E3804	T3805	E3806	V3807	I3808	N3809	N3810	S3811	A3812	R3813	E3814	E3815	Y3816	R3817	P3818	V3819	D3852	L3853	S3854	L3855	A3856	K3857	S3858	V3859	K3860	S3861	P3862	I3863	T3864	S3865	T3866	T3867	I3868	S3869	P3869	L3869	L3894	L3895	L3896	L3897	L3898	L3899	I4000	R4001	K3942	W3943	L3944	N3945	L3946	V3947	E3948	L3949	S3950	K3951	L3952																																							
R3953	Q3954	F3955	S3956	D3957	L3958	L3959	D3960	Q3961	I3962	S3963	R3964	N3965	E3966	K3967	M3968	N3969	V3910	K3911	H3912	E3913	E3914	F3915	N3916	T3917	L3918	I3919	E3979	E3980	E3981	N3982	L3983	P3984	L3925	D3926	L3927	Y3928	D3988	K3989	C3930	P3931	K3932	K3933	P3934	S3935	K3936	W3937	L3938	L3939	D3940	I3941	T3942	W3943	L3944	N3945	L3946	V3947	E3948	L3949	S3950	K3951	L3952																																																							
R4013	K4014	Y4015	L4016	V4017	D4018	S4019	M4020	G4021	E4022	K4023	Y4024	A4025	E4026	G4027	V4028	L4029	L4030	D4031	L4032	E4033	K4034	T4035	W4036	E4037	E4038	S4039	D4040	P4041	R4042	T4043	P4044	L4045	L4046	C4047	L4048	L4049	S4050	M4051	G4052	S4053	D4054	P4055	T4056	D4057	S4058	L4059	L4060	A4061	L4062	G4063	K4064	R4065	L4066	K4067	L4068	E4069	T4070	R4071	Y4072																																																									
Y4073	S4074	M4075	Q4079	E4080	Y4081	H4082	A4083	R4084	K4085	L4086	Q4088	Q4089	T4090	M4091	A4092	M4093	G4094	G4095	W4096	A4097	L4098	L4099	Q4100	M4101	C4102	H4103	D4107	F4108	M4109	L4110	E4111	L4112	M4113	D4114	I4115	I4116	I4117	E4118	T4119	E4120	L4121	V4122	H4123	D4124	A4125	F4126	R4127	L4128	W4129	M4130	T4131	T4132	E4133	K4136																																																														
P4139	L4142	M4145	S4146	T4147	K4148	L4149	A4150	M4151	D4152	P4153	P4154	Q4155	G4156	R4158	A4159	G4160	L4161	K4162	R4163	T4164	Y4165	S4166	G4167	W4168	A4169	Q4170	D4171	L4172	L4173	L4174	V4175	S4176	G4177	G4178	S4179	Q4180	W4181	K4182	M4183	L4184	L4185	Y4186	A4187	V4188	L4189	F4190	L4191	H4192	S4193	T4194	V4195	Q4196	L4197	R4198	R4199	K4200																																																												
F4201	G4202	A4203	L4204	G4205	W4206	M4207	L4208	P4209	Y4210	E4211	F4212	M4213	Q4214	A4215	D4216	F4217	N4218	A4219	T4220	W4221	L4228	D4229	D4230	M4231	D4232	V4233	K4234	K4235	G4236	V4237	S4238	W4239	Q4250	Y4251	G4252	G4253	R4254	V4255	L4256	D4257	D4258	Y4259	D4260	K4261	R4262	L4263	L4264	M4265	T4266	F4267	A4268	K4269	W4270	W4271	F4272	S4273	E4274																																																											
M4275	M4276	F4277	G4278	P4279	D4280	F4281	S4282	F4283	Y4284	Q4285	G4286	M4287	N4288	I4289	P4290	K4291	C4292	S4293	T4294	V4295	D4296	M4297	Y4298	L4299	Q4300	Y4301	I4302	K4303	S4304	L4305	P4306	Y4307	S4308	D4309	S4310	P4311	E4312	V4313	F4314	G4315	L4316	H4317	P4318	M4319	A4320	D4321	I4322	T4323	Y4324	Q4325	S4326	K4327	L4328	A4329	K4330	D4331	W4332	L4333	D4334																																																									
L4337	G4346	G4347	G4348	D4349	E4350	A4354	A4357	R4358	L4359	A4360	D4361	D4362	M4363	L4364	K4366	L4367	P4368	P4369	D4370	Y4371	V4372	P4373	Y4374	E4375	V4376	K4377	E4378	R4379	L4380	Q4381	K4382	M4383	G4384	P4385	F4386	Q4387	P4388	M4389	N4390	I4391	F4392	Q4401	R4402	V4403	L4404	S4405	L4406	V4407	R4408	S4409	D4410	L4411	T4412																																																															



• Molecule 103: Dynein axonemal heavy chain 5



E1586	D1587	S1588	L1589	M1590	L1591	L1592	G1593	S1594	L1595	L1596	S1597	M1598	R1599	Y1600	M1601	M1602	P1603	F1604	K1605	A1606	Q1607	I1608	V1612	L1615	S1616	M1617	S1618	T1619	D1620	I1621	I1622	E1623	S1624	M1625	M1626	T1627	V1628	Q1629	M1630	W1631	W1632	I1633	Y1634	L1635	L1636	L1637	V1638	F1639	V1640	G1641	G1642	D1643	I1644	A1645	K1646	Q1647	L1648																																																					
P1649	K1650	E1651	A1652	K1653	R1654	F1655	S1656	M1657	I1658	D1659	K1660	S1661	W1662	V1663	K1664	I1665	M1666	T1667	R1668	A1669	H1670	E1671	V1672	P1673	S1674	V1675	V1676	Q1677	C1678	C1679	V1680	G1681	D1682	E1683	T1684	L1685	G1686	L1687	L1688	L1689	P1690	H1691	W1692	L1693	D1694	Q1695	L1696	L1697	V1698	F1699	Q1700	K1701	S1702	L1703	T1704	G1705	Y1706	S1721																																																				
D1722	P1723	A1724	L1725	L1726	E1727	F1754	H1755	E1756	K1757	I1758	Y1759	D1760	E1774	L1775	D1776	K1777	V1779	M1780	S1798	S1799	L1800	H1801	L1802	V1803	I1804	R1805	Q1806	A1807	A1808	A1809	M1810	I1811	Q1812	E1813	T1814	G1815	F1816	Q1817	L1818	E1820	F1821	L1822	S1823	S1824	F1825	G1833	M1836	I1837	W1838	L1839	R1840	D1841	L1842	E1843	E1844	A1845	L1846	M1848	A1849	K1850	L1851	D1852	K1853	K1854	I1855	M1856	Q1857	K1858	T1859	M1860	Q1861	A1862	F1863	L1864	E1865	L1866	D1901	D1902	L1903	C1904	H1905	M1906	H1907	I1908	K1909	S1910	P1911	M1912	D1913	F1914	E2092	L2093	P2094	E2095	N2096	L2097	K2098	L2099	M2100	F2101	D2126	N2127	V2128	V2129	L2130	A2131	R2132	K2133	F2134	G1980
S1843	E1843	A1844	A1845	L1846	R1847	M1848	A1849	K1850	L1851	D1852	K1853	K1854	I1855	M1856	Q1857	K1858	T1859	M1860	Q1861	A1862	F1863	L1864	E1865	L1866	D1901	D1902	L1903	C1904	H1905	M1906	H1907	I1908	K1909	S1910	P1911	M1912	D1913	F1914	E2092	L2093	P2094	E2095	N2096	L2097	K2098	L2099	M2100	F2101	D2126	N2127	V2128	V2129	L2130	A2131	R2132	K2133	F2134	G1980																																																				
P1981	A1982	G1983	S2007	D2008	Q2009	G2014	L2015	G2016	R2017	I2018	F2019	E2033	F2034	N2035	R2036	I2037	L2042	S2043	V2044	A2045	A2046	Q2047	Q2048	I2049	S2050	M2083	N2084	P2085	G2086	Y2087	A2088	G2089	R2090	Q2091	E2092	L2093	P2094	E2095	N2096	L2097	K2098	L2099	M2100	F2101	D2126	N2127	V2128	V2129	L2130	A2131	R2132	K2133	F2134	G1980																																																								
F2135	T2136	L2137	Y2138	L2139	L2140	C2141	E2142	E2143	Q2144	L2145	S2146	K2147	Q2148	V2149	H2150	Y2151	T2176	E2177	S2178	T2179	L2180	V2181	R2182	R2183	V2184	L2185	L2186	D2187	N2188	L2189	N2190	S2191	L2192	L2193	L2194	D2195	E2196	D2197	E2198	F2199	L2200	F2201	L2202	S2203	K2204	L2205	E2206	D2207	F2209	P2210	N2211	L2212	L2213	L2214	D2215	K2216	A2217																																																					
G2218	Y2219	P2220	E2221	L2222	E2223	A2224	A2225	L2226	S2227	R2228	P2229	Q2229	V2230	E2231	E2232	A2233	G2234	L2235	I2236	N2237	H2238	P2239	P2240	W2241	K2242	K2244	T2245	I2246	L2248	F2249	R2253	G2257	M2258	M2259	T2260	L2261	D2262	P2263	S2264	G2265	A2266	G2267	K2268	T2269	T2270	C2271	I2272	H2273	T2274	L2275	M2276	L2277	L2278	D2279	T2280	D2281																																																						
C2282	G2283	K2284	P2285	H2286	R2287	E2288	M2289	R2290	M2291	N2292	P2293	K2294	A2295	L2296	T2297	A2298	P2299	Q2300	M2301	F2302	G2303	R2304	L2305	D2306	V2307	A2308	T2309	D2310	W2311	W2312	T2313	G2315	L2316	F2317	S2318	T2319	L2320	W2321	R2322	K2323	T2324	L2325	R2326	A2327	K2328	K2329	G2330	E2331	H2332	L2333	W2334	L2335	W2336	L2337	D2338	G2339	P2340	V2341																																																				
D2342	A2343	L2344	W2345	L2346	E2347	N2348	L2349	N2350	S2351	V2352	L2353	L2359	T2360	L2361	A2362	N2363	G2364	D2365	R2366	L2367	N2372	C2373	K2374	L2375	L2376	F2377	E2378	P2379	H2380	M2381	L2382	D2383	N2384	A2385	S2386	P2387	A2388	T2389	V2390	M2393	G2394	M2395	V2396	F2397	M2398	S2399	S2400	S2401	L2402	L2403	D2404	W2405	S2406	P2407	L2408	L2409																																																						
E2410	G2411	F2412	L2413	K2414	K2415	R2416	S2417	Q2418	E2420	A2421	E2422	I2423	L2424	R2425	Q2426	L2427	Y2428	T2429	E2430	S2431	F2432	P2433	D2434	L2435	Y2436	R2437	F2438	G2439	I2440	Q2441	N2442	L2443	E2444	Y2445	K2446	M2447	E2448	V2449	L2450	E2451	A2452	F2453	V2454	I2455	T2456	Q2457	S2458	M2460	M2461	L2462	Q2463	G2464	L2465	I2466	L2468	K2469																																																						
E2470	Q2471	G2472	G2473	E2474	V2475	S2476	Q2477	A2478	H2479	L2480	G2481	R2482	L2483	F2484	V2485	F2486	A2487	L2488	L2489	M2490	S2491	A2492	G2493	A2494	L2495	L2496	E2497	L2498	D2499	G2500	R2501	R2502	L2503	L2504	E2505	L2506	Q2507	L2508	R2509	S2510	R2511	P2512	T2513	G2514	T2515	L2516	E2517	L2518	P2519	P2520	P2521	A2522	G2523	P2524	G2525	D2526	A2528	F2529																																																				
D2530	Y2531	Y2532	V2533	A2534	P2535	D2536	G2537	T2538	W2539	T2540	H2541	W2542	N2543	T2544	R2545	T2546	Q2547	E2548	P2565	N2566	V2567	D2568	N2569	V2570	R2571	T2572	D2573	F2574	L2575	I2576	T2578	Q2577	I2579	A2580	K2581	Q2582	G2583	K2584	A2585	V2586	L2587	L2588	L2589	G2590	E2591	Q2592	G2593	T2594	A2595	K2596	T2597	V2598	I2599	K2600	G2601	G2602	F2603	M2604																																																				
S2605	K2606	Y2607	D2608	P2609	E2610	C2611	M2613	L2614	K2615	S2616	L2617	N2618	F2619	S2620	S2621	T2622	T2623	I2632	Y2635	V2636	D2637	K2638	R2639	M2640	G2641	T2642	T2643	Y2644	G2645	P2646	T2647	A2648	G2649	K2650	K2651	M2652	K2654	A2655	F2656	L2657	D2658	V2659	N2660	M2661	T2662	L2663	L2664	N2665	E2666	M2667	G2668	D2669	Q2670	V2671	T2672																																																							

T3769	V3679	A3479	I3419	A3369	Q3299	D3239	P3103	Q2915	F2834	A2736	G2692	M2673
S3770	G3680	E3480	N3420	G3360	T3300	M3240	A3104	L2916	F2834	S2736	E2693	E2674
T3771	D3681	R3481	K3421	M3361	I3301	V3241	L3105	G2919	S2837	V2737	E2694	L2675
Q3772	K3682	C3482	E3422	F3362	R3302	L3242	L3106	E2920	S2838	D2738	F2694	V2676
G3773	E3683	G3483	V3423	L3363	S3303	K3243	S3107	I2921	D2839	Q2752	F2695	R2677
S3774	H3684	H3484	L3424	Q3364	P3304	E3244	T3131	R2922	V2940	R2753	L2695	L2679
L3775	K3485	K3485	P3425	M3365	D3305	V3245	D3136	S2985	W2941	F2754	M2680	M2680
V3776	M3486	M3486	L3426	L3366	I3306	T3246	D3137	Y2986	T2942	F2756	E2681	E2681
E3777	Q3487	Q3487	K3427	Q3367	A3307	M3247	C3137	M2987	F2943	S2756	M2682	M2682
I3778	A3488	T3488	A3428	Q3368	T3309	K3248	L3138	M2988	D2944	E2757	M2683	M2683
E3779	A3489	A3489	N3429	F3369	V3309	A3249	L3139	T2989	K2945	E2758	G2684	G2684
S3780	S3490	S3490	L3430	P3370	R3310	Q3250	E3140	S2989	A2946	V2759	F2685	F2685
L3781	T3491	T3491	V3431	K3371	T3311	A3251	I3141	M2990	L2947	R2760	V2686	V2686
I3782	L3492	L3492	Q3432	D3372	L3312	A3252	K3142	E2993	V2948	D2761	M2687	M2687
V3783	L3493	L3493	Q3433	T3373	G3313	E3253	K3143	L2850	S2949	K2765	G2692	G2692
V3784	S3494	S3494	E3434	I3374	R3314	K3254	E3144	L2850	L2849	L2766	E2693	E2693
S3785	G3495	G3495	N3435	M3375	P3315	V3255	R3197	K3018	L2849	L2766	F2694	F2694
E3786	L3496	L3496	R3436	E3376	R3316	K3256	R3198	K3019	W2851	V2767	F2695	F2695
R3787	A3497	A3497	H3437	E3377	H3317	A3257	T3198	D3020	E2852	P2768	F2696	F2696
T3788	G3498	G3498	L3438	V3378	L3318	E3258	L3199	E3021	E2853	L2769	L2695	L2695
R3789	A3499	A3499	L3439	I3379	I3319	V3259	A3200	S3022	E2854	T2770	S2696	S2696
K3790	K3500	K3500	A3440	F3380	M3320	Q3260	M3201	F3023	G2855	R2771	L2697	L2697
T3791	E3501	E3501	M3441	F3381	R3321	K3261	R3202	L3024	E2857	R2772	D2699	D2699
A3792	R3502	R3502	Q3442	L3382	I3322	V3262	M3203	E3025	E2858	L2773	L2700	L2700
E3793	M3503	M3503	D3443	S3383	M3323	K3263	N3204	S3032	E2859	W2774	Q2701	Q2701
R3794	L3504	L3504	L3444	P3384	K3264	D3264	N3205	G3206	K2859	Q2775	L2702	L2702
E3795	Q3505	Q3505	Q3445	Y3385	C3325	R3265	T3206	G3206	K2860	M2776	L2703	L2703
V3796	Q3506	Q3506	K3446	F3386	V3326	A3266	L3207	L2861	L2861	K2778	A2704	A2704
Q3797	S3507	S3507	Q3447	E3387	L3327	Q3267	E3208	R3042	E2862	L2777	F2702	F2702
L3798	Q3508	Q3508	Q3448	M3388	L3328	A3268	K3209	D3043	V2863	K2778	L2703	L2703
E3799	E3509	E3509	A3449	P3389	I3329	I3269	L3210	E3044	D2864	K2780	A2706	A2706
S3800	F3510	F3510	E3450	D3390	F3330	V3270	K3211	D3046	C2865	M2781	H2706	H2706
K3801	A3511	A3511	L3451	Y3391	Q3331	D3271	E3212	E3047	G2866	L2782	L2707	L2707
R3802	L3512	L3512	D3452	L3392	R3332	S3272	A3213	I3048	L2867	P2783	H2708	H2708
A3803	Q3513	Q3513	D3453	L3393	K3333	L3273	S3214	N3049	L2875	T2784	P2709	P2709
E3804	T3514	T3514	K3454	E3394	S3334	S3274	E3215	G3054	R2876	P2785	G2710	G2710
S3805	L3515	L3515	Q3455	T3395	S3335	Q3275	S3216	S3054	D2877	A2786	G2711	G2711
E3806	K3516	K3516	A3456	A3396	A3336	D3276	V3217	K3058	A2878	F2788	R2713	R2713
R3807	M3544	M3544	E3457	K3397	V3337	K3277	A3218	E2880	H2789	H2789	M2714	M2714
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N3809	M3546	M3546	D3459	V3399	I3339	I3279	L3220	A2881	E2880	Y2790	I2716	I2716
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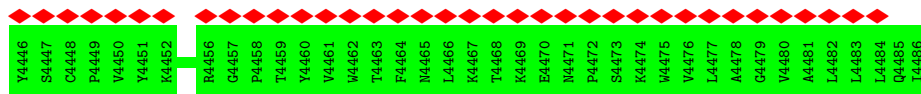
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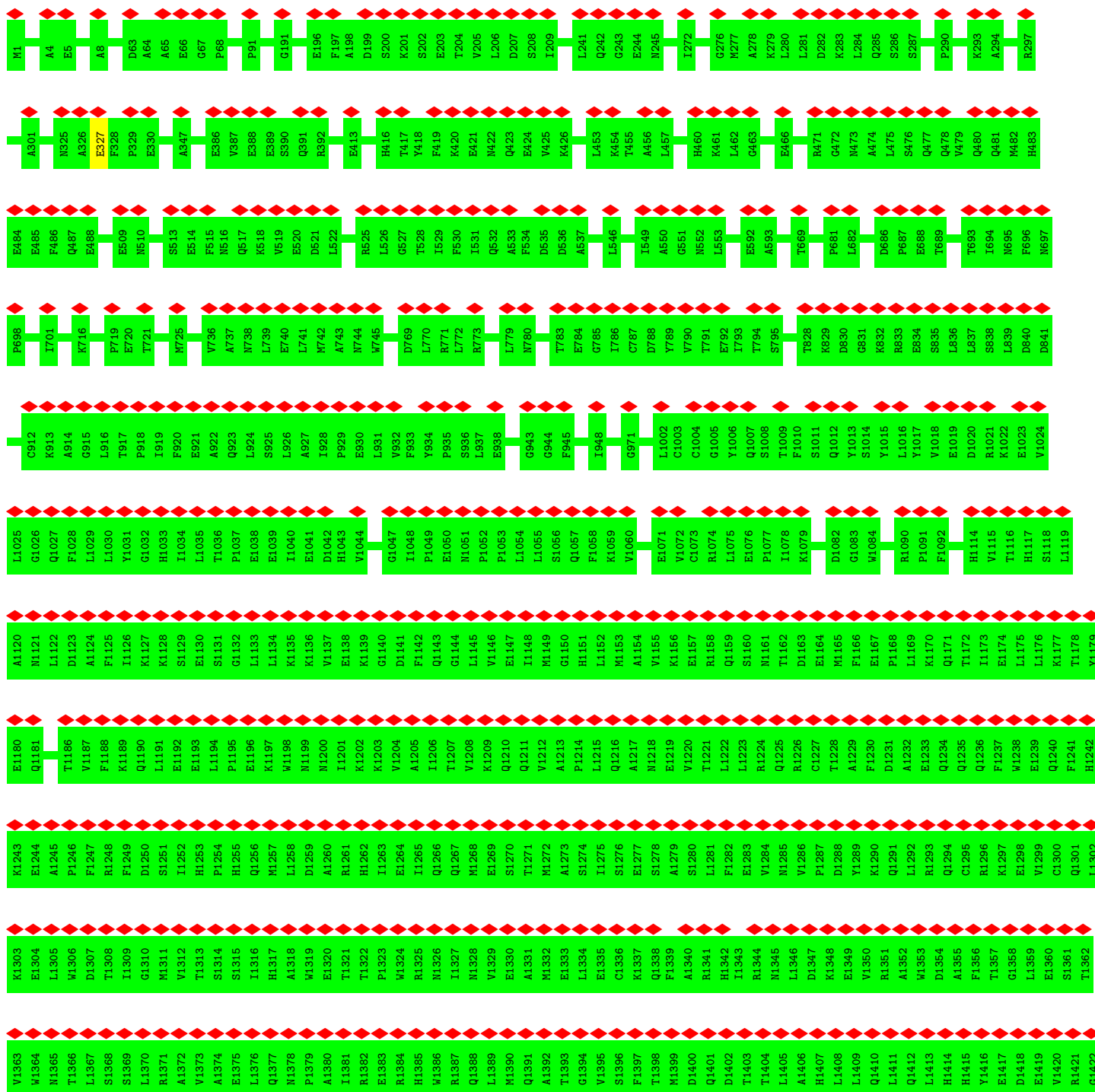
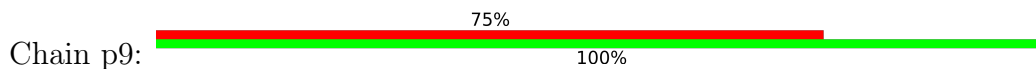
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S2643	L2579	V2519	R2459	A2385	D2319	N2259	G2199	E2139	I2079	L2019	E1959	Q1899
P2644	S2680	L2520	V2460	M2386	K2320	P2260	E2200	L2140	P2080	A2020	I1960	M1900
P2650	L2581	E2521	C2461	V2387	Y2321	T2261	K2201	L2141	K2081	R2021	S1961	D1901
L2651	K2582	K2522	Y2462	Q2388	L2322	M2262	K2202	A2142	I2082	K2022	I1962	Y1902
L2652	E2583	P2523	F2463	D2389	P2323	K2263	D2203	V2143	V2083	F2023	N1963	K1903
L2653	I2584	L2524	M2464	Q2390	T2324	L2264	G2204	R2144	T2084	I2024	P1964	S1904
L2654	T2585	E2525	E2465	L2391	C2325	L2265	L2205	H2145	D2085	T2025	S1965	C1905
P2649	V2586	K2526	R2466	D2393	F2266	F2206	F2206	S2146	D2086	L2026	G1966	G1906
L2651	V2587	K2527	L2467	Y2394	E2267	S2207	S2207	V2147	D2087	Y2027	G1967	H1907
L2652	Q2588	A2528	M2468	Y2395	I2268	S2208	S2208	F2148	P2088	Q2028	I1968	I1908
D2653	Y2589	G2529	A2469	R2395	S2269	I2209	I2209	V2149	I2089	L2029	F1969	Y1909
L2654	V2590	R2530	K2470	K2407	H2270	M2210	M2210	V2150	F2090	C2030	I1970	K1910
A2655	S2591	M2531	Q2471	T2408	L2271	R2211	R2211	G2151	M2091	K2031	T1971	G1911
L2656	C2592	Y2532	R2472	T2408	R2272	E2212	E2212	G2152	G2092	E2032	M1972	L1912
M2593	M2593	G2533	P2473	Q2414	T2273	L2213	L2213	A2153	L2093	L2033	N1973	A1913
P2594	N2594	P2534	V2474	G2415	A2274	A2214	A2214	G2154	I2094	L2034	P1974	Q1914
P2595	N2595	P2535	M2475	T2416	E2341	A2275	N2215	T2155	G2095	S2035	G1975	T1915
T2596	T2596	G2536	L2476	T2417	Q2342	P2276	I2216	G2156	D2096	K2036	Y1976	G1916
A2597	A2597	M2537	V2477	F2418	S2343	A2277	T2217	K2157	L2097	Q2037	A1977	A1917
G2598	G2598	K2538	D2478	F2419	V2345	T2278	H2218	S2158	F2098	D2038	G1978	M1918
S2599	S2599	L2539	T2479	Y2420	V2346	T2279	D2219	Q2159	H2039	L2039	R1979	G1919
F2600	F2600	L2540	A2480	Y2421	S2280	G2220	G2220	V2160	P2099	Y2040	T1980	C1920
T2601	T2601	I2541	G2481	I2422	R2281	P2221	P2221	L2161	A2100	D2041	E1981	F1921
I2602	I2602	Y2542	T2482	D2423	A2282	K2222	K2222	D2102	D2102	D2042	L1982	D1922
N2603	N2603	F2543	G2483	P2424	C2349	Q2223	Q2223	V2103	V2103	G2043	P1983	E1923
P2604	P2604	L2544	K2484	E2425	G2350	W2224	L2224	L2164	F2104	L2044	E1984	F1924
R2605	R2605	D2545	S2485	T2426	L2351	L2285	L2225	H2165	R2105	R2045	N1985	M1925
L2606	L2606	D2546	V2486	K2427	E2353	L2226	L2226	K2166	D2106	A2046	L1986	R1926
Q2607	Q2607	M2547	L2487	K2428	I2287	D2227	D2227	T2167	R2107	I2047	K1987	I1927
R2608	R2608	M2548	V2488	F2429	N2288	G2228	G2228	Y2168	D2108	K2048	S1988	S1928
H2609	H2609	M2549	Q2489	E2430	P2289	D2229	D2229	Q2169	P2109	S2049	L1989	V1929
F2610	F2610	P2550	A2490	E2431	A2290	T2230	T2230	L2170	M2110	V2050	F1990	E1930
S2611	S2611	K2551	K2491	W2432	D2291	D2231	D2231	M2171	R1991	L2051	R1991	V1931
V2612	V2612	L2552	L2492	S2433	L2292	K2172	K2172	E2112	P1992	V2052	P1992	L1932
F2613	F2613	D2553	A2493	K2434	G2293	M2234	M2234	R2173	C1993	V2053	C1993	S1933
V2614	V2614	A2554	S2494	L2435	W2294	W2234	W2234	L2174	A1994	A2054	A1994	V1934
L2615	L2615	Y2555	L2495	V2436	N2295	T2235	T2235	P2175	M1995	G2055	M1995	V1935
S2616	S2616	G2556	D2496	P2437	P2296	E2236	E2236	V2176	S2056	S2056	V1996	A1936
F2617	F2617	T2557	P2497	Q2438	P2297	S2237	S2237	W2177	L2057	L2057	V1997	V1937
Q2618	Q2618	V2558	E2498	F2439	P2298	D2238	D2238	T2178	P1998	K2058	P1998	Q1938
A2620	A2620	P2560	Y2500	E2440	S2299	N2239	N2239	D2179	R2059	R2059	P1999	V1939
D2621	D2621	H2561	L2501	F2441	K2367	S2300	S2300	L2180	V2120	G2060	F2000	K1940
								N2181	D2121	D2061	E2001	S1941

D3431	D3432	D3433	D3434	D3435	A3436	A3437	W3438	D3439	W3440	E3441	G3442	L3443	F3444	A3445	D3446	F3447	R3448	S3449	W3450	E3451	R3452	A3453	T3454	L3455	K3456	W3457	R3458	C3459	E3460	R3461	F3462	L3463	L3464	W3465	W3466	D3467	F3468	W3469	L3470	Q3471	G3472	L3473	K3474	W3475	L3476	K3477	R3478	W3479	W3480	G3481	E3482	D3483	L3484	R3485	W3486	T3487	R3488	L3489	G3490	Q3371	Q3372	E3373	R3374	L3375	L3376	C3377	G3378	D3379	W3380	L3381	L3382	L3383	T3384	A3385	F3386	S3387	S3388	Y3389	L3390	G3391	R3392	F3393	T3394	L3395	K3396	W3397	R3398	Q3399	E3400	L3401	L3402	D3403	R3404	T3405	W3406	R3407	F3408	W3409	L3410	S3411	Q3412	L3413	K3414	L3415	P3416	I3417	R3418	W3419	T3420	P3421	A3422	L3423	D3424	P3425	L3426	R3427	M3428	L3429	M3430	M3251	P3252	E3253	F3254	W3255	A3256	K3258	S3259	W3260	A3261	A3262	A3263	G3264	L3265	C3266	S3267	W3268	W3269	I3270	K3271	I3272	F3273	R3274	F3275	W3276	E3277	W3278	F3279	C3280	D3281	W3282	E3283	P3284	K3285	R3286	Q3287	A3288	L3289	M3290	K3291	A3292	T3293	G3294	H3295	N3296	Q3297	A3298	A3299	Q3300	E3301	K3302	L3303	A3304	A3305	I3306	K3307	A3308	K3309	I3310	M3251	P3252	E3253	F3254	W3255	A3256	K3258	S3259	W3260	A3261	A3262	A3263	G3264	L3265	C3266	S3267	W3268	W3269	I3270	K3271	I3272	F3273	R3274	F3275	W3276	E3277	W3278	F3279	C3280	D3281	W3282	E3283	P3284	K3285	R3286	Q3287	A3288	L3289	M3290	K3291	A3292	T3293	G3294	H3295	N3296	Q3297	A3298	A3299	Q3300	E3301	K3302	L3303	A3304	A3305	I3306	K3307	A3308	K3309	I3310	A3191	V3192	M3193	V3194	L3195	M3196	A3197	P3198	R3199	G3200	R3201	V3202	F3203	K3204	D3205	R3206	W3208	K3209	A3210	A3211	K3212	V3213	T3214	M3215	A3216	K3217	V3218	D3219	G3220	F3221	L3222	D3223	S3224	L3225	I3226	N3227	F3228	N3229	K3230	E3231	N3232	I3233	T3234	H3235	E3236	E3238	C3237	L3238	K3239	A3240	I3241	R3242	F3243	Y3244	L3245	Q3246	D3247	A3248	E3249	F3250	K3131	G3072	L3073	L3074	K3075	L3076	H3077	S3078	T3079	S3080	A3081	Q3082	W3083	D3084	L3086	K3087	A3088	L3090	A3091	A3092	Q3093	E3094	W3095	A3096	L3097	K3098	K3100	M3101	A3102	D3103	A3104	D3105	K3106	L3107	I3108	Q3109	W3110	V3111	G3112	W3113	A3114	T3115	D3116	K3117	W3118	S3119	R3120	E3121	K3122	L3123	M3124	A3125	D3126	E3127	W3128	S3129	Q3130	K3131	G3072	L3073	L3074	K3075	L3076	H3077	S3078	T3079	S3080	A3081	Q3082	W3083	D3084	L3086	K3087	A3088	L3090	A3091	A3092	Q3093	E3094	W3095	A3096	L3097	K3098	K3100	M3101	A3102	D3103	A3104	D3105	K3106	L3107	I3108	Q3109	W3110	V3111	G3112	W3113	A3114	T3115	D3116	K3117	W3118	S3119	R3120	E3121	K3122	L3123	M3124	A3125	D3126	E3127	W3128	S3129	Q3130	K3131	K3061	K3062	C3063	E3064	P3065	T3066	K3067	K3068	L3069	E3070	V2951	T2952	L2953	C2954	F2955	S2956	P2957	V2958	G2959	N2960	K2961	L2962	R2963	V2964	R2965	S2966	K2967	F2969	P2970	A2971	L2972	V2973	N2974	C2975	T2976	A2977	L2978	H2979	W2980	F2981	H2982	E2983	W2984	P2985	Q2986	Q2987	A2988	L2989	E2990	S2991	V2992	D2993	L2994	R2995	F2996	L2997	Q2998	W2999	T3000	E3001	G3002	I3003	E3004	P3005	T3006	V3007	K3008	Q3009	S3010	I3011	S3012	K3013	F3014	M3015	A3016	F3017	W3018	H3019	T3020	S3021	V3022	N3023	Q3024	T3025	S3026	Q3027	S3028	Y3029	L3030	S3031	N3032	E3033	Q3034	C3035	R3036	W3037	W3038	Q3039	T3040	T3041	K3042	S3043	F3044	L3045	E3046	F3047	L3048	R3049	K3050	V3051	Q3052	S3053	L3054	L3055	H3056	R3057	H3058	R3059	S3100	E3101	K3102	C3103	M3104	A3105	D3106	E3107	F3108	G3109	A3110	N3111	G3112	W3113	A3114	T3115	D3116	K3117	W3118	S3119	R3120	E3121	K3122	L3123	M3124	A3125	D3126	E3127	W3128	S3129	Q3130	K3131	V2851	A2852	L2853	L2854	V2855	G2856	C2857	D2858	L2859	N2860	K2861	L2862	Q2863	V2864	R2865	S2866	K2867	F2869	P2870	A2871	L2872	V2873	N2874	C2875	T2876	A2877	L2878	H2879	W2880	F2881	H2882	E2883	W2884	P2885	Q2886	Q2887	A2888	L2889	E2890	R2891	F2892	V2893	L2894	V2895	M2896	K2897	L2898	G2899	N2900	A2901	S2902	R2903	E2904	L2905	P2906	D2907	L2908	Y2909	S2910	D2911	D2912	E2913	V2914	E2915	N2916	L2917	L2918	S2919	N2920	V2921	R2922	M2923	E2924	V2925	K2926	S2927	Q2928	C2928	L2929	K2930	A2931	D2932	N2933	R2934	E2935	N2936	C2937	T2938	W2939	M2940	R2941	L2942	T2943	E2944	L2945	Q2946	R2947	A2948	L2949	K2950	T2750	Q2751	S2752	P2753	N2754	L2755	Y2756	A2760	N2761	G2762	G2764	E2765	P2770	V2771	Q2772	S2773	I2774	E2775	L2776	L2777	T2778	Q2779	T2780	L2781	V2782	E2783	A2784	L2785	N2786	E2787	H2788	K2789	E2790	V2791	N2792	T2793	V2794	M2795	D2796	L2797	F2798	D2799	M2799	F2800	E2801	D2802	A2803	M2804	R2805	H2806	I2813	L2814	E2815	D2816	P2817	R2818	E2819	E2748	E2749	T2750	Q2751	S2752	P2753	N2754	L2755	Y2756	A2760	N2761	G2762	G2764	E2765	P2770	V2771	Q2772	S2773	I2774	E2775	L2776	L2777	T2778	Q2779	T2780	L2781	V2782	E2783	A2784	L2785	N2786	E2787	H2788	K2789	E2790	V2791	N2792	T2793	V2794	M2795	D2796	L2797	F2798	D2799	M2799	F2800	E2801	D2802	A2803	M2804	R2805	H2806	I2813	L2814	E2815	D2816	P2817	R2818	E2819	E2748	E2749	M2820	A2821	L2822	L2823	V2824	G2825	L2826	C2827	G2828	S2829	S2842	S2843	M2844	D2845	V2846	F2847	I2849	T2850	L2851	R2852	K2853	G2854	V2855	Q2856	I2857	Q2858	L2859	N2860	K2861	D2862	L2863	L2864	A2865	S2866	L2867	C2868	L2869	K2870	A2871	D2872	N2873	K2874	N2875	E2801	D2802	A2803	M2804	R2805	H2806	I2813	L2814	E2815	D2816	P2817	R2818	E2819	E2748	E2749	R2891	F2892	V2893	L2894	V2895	M2896	K2897	L2898	G2899	N2900	A2901	S2902	R2903	E2904	L2905	P2906	D2907	L2908	Y2909	S2910	D2911	D2912	E2913	V2914	E2915	N2916	L2917	L2918	S2919	N2920	V2921	R2922	M2923	E2924	V2925	K2926	S2927	Q2928	C2928	L2929	K2930	A2931	D2932	N2933	R2934	E2935	N2936	C2937	T2938	W2939	M2940	R2941	L2942	T2943	E2944	L2945	Q2946	R2947	A2948	L2949	K2950	V2851	A2852	L2853	L2854	V2855	G2856	C2857	D2858	L2859	N2860	K2861	L2862	Q2863	V2864	R2865	S2866	K2867	F2869	P2870	A2871	L2872	V2873	N2874	C2875	T2876	A2877	L2878	H2879	W2880	F2881	H2882	E2883	W2884	P2885	Q2886	Q2887	A2888	L2889	E2890	R2891	F2892	V2893	L2894	V2895	M2896	K2897	L2898	G2899	N2900	A2901	S2902	R2903	E2904	L2905	P2906	D2907	L2908	Y2909	S2910	D2911	D2912	E2913	V2914	E2915	N2916	L2917	L2918	S2919	N2920	V2921	R2922	M2923	E2924	V2925	K2926	S2927	Q2928	C2928	L2929	K2930	A2931	D2932	N2933	R2934	E2935	N2936	C2937	T2938	W2939	M2940	R2941	L2942	T2943	E2944	L2945	Q2946	R2947	A2948	L2949	K2950
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Q4377	C4378	D4379	M4380	K4381	K4382	K4383	E4387	F4388	R4389	S4390	P4391	P4392	E4394	G4395	A4396	Y4397	I4398	M4403	E4404	G4405	A4406	C4407	M4408	D4409	A4412	G4413	I4414	L4415	T4416	E4417	A4418	L4419	L4420	K4421	D4422	L4423	T4424	P4425	M4430	F4431	I4432	K4433	A4434	L4435	P4436	A4437	D4438	K4439	Q4440	D4441	C4442	R4443	S4444	Y4445																																																					



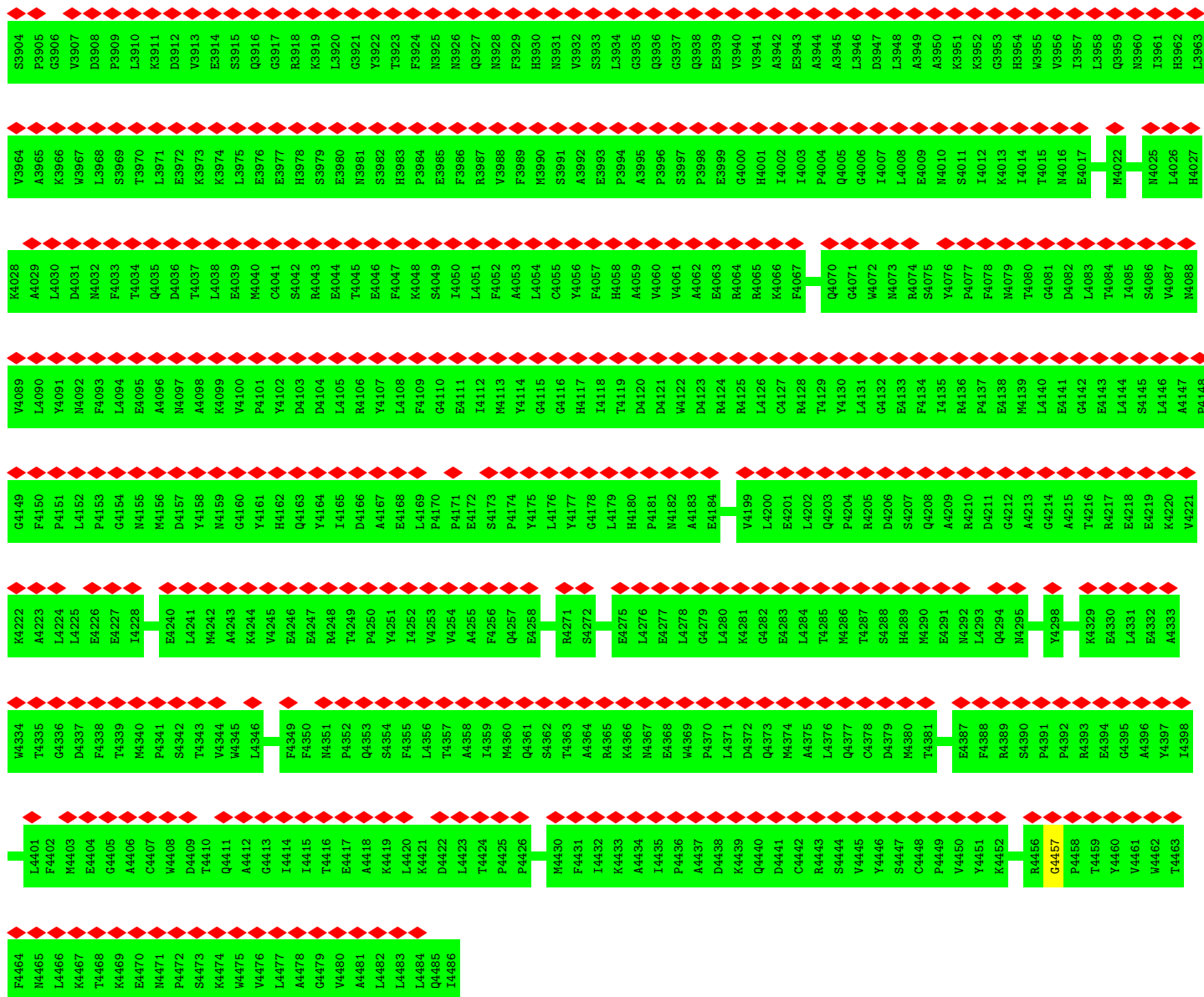
● Molecule 104: Dynein axonemal heavy chain 9



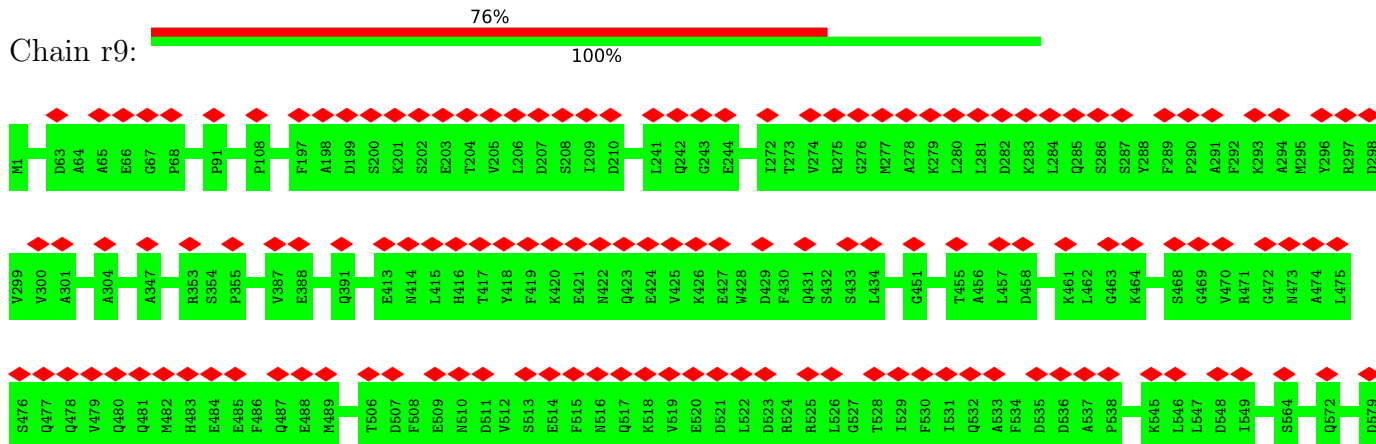
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R2144	T2084	I2024	P1964	S1904	V1844	V1784	Q1724	V1664	F1604	E1544	M1484	V1424
H2145	D2085	T2025	S1965	C1905	I1845	H1785	I1725	A1665	Y1605	G1545	S1485	D1425
S2146	D2086	L2026	V1966	G1906	T1846	A1786	W1726	F1666	F1606	I1546	K1486	K1426
V2147	M2087	Y2027	I1967	I1907	P1847	R1787	W1727	S1667	L1607	D1547	A1427	A1427
F2148	P2088	Q2028	G1968	N1908	L1848	D1788	T1728	E1668	S1608	I1548	V1488	K1428
V2150	I2089	L2029	F1969	Y1909	T1849	V1789	T1729	P1669	P1609	D1549	A1489	K1429
G2151	M2090	C2030	I1970	K1910	D1850	V1790	E1730	C1670	S1610	F1550	F1490	E1430
G2152	M2091	K2031	I1971	G1911	R1851	A1791	V1731	D1671	L1611	K1551	L1491	M1431
L2153	G2092	E2032	M1972	L1912	C1852	K1792	G1732	C1672	L1612	E1552	L1492	G1432
G2154	L2093	L2033	M1973	A1913	Y1853	M1793	M1733	S1673	L1613	L1553	E1493	M1433
T2155	I2094	L2034	P1974	Q1914	I1854	I1794	A1734	G1674	D1614	A1554	E1494	E1434
T2156	G2095	S2035	I1975	T1915	T1855	Q1795	F1735	Q1675	I1615	Y1555	V1495	K1435
G2157	D2096	K2036	Y1976	G1916	L1856	K1796	A1736	V1676	L1616	D1556	S1496	T1436
L2158	L2097	Q2037	A1977	A1917	T1857	K1797	R1737	E1677	S1617	A1557	G1497	L1437
S2158	F2098	D2038	G1978	W1918	Q1858	V1798	L1738	I1678	M1618	Q1558	W1498	K1438
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Q2160	A2100	Y2040	T1980	C1920	L1860	M1800	E1740	L1680	T1620	I1560	K1500	L1440
L2161	L2101	D2041	E1981	F1921	H1861	A1801	G1741	M1681	A1621	P1561	K1501	Q1441
D2162	D2102	W2042	L1982	I1922	L1862	Q1802	Y1742	H1682	P1622	M1562	L1502	T1442
L2163	G2043	G2043	P1983	E1923	T1863	A1803	E1743	V1683	Q1623	V1563	S1503	T1443
L2164	P2104	L2044	E1984	F1924	M1864	F1804	S1744	L1684	Q1624	V1564	T1504	W1444
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K2166	R2106	A2046	L1986	I1926	G1866	W1806	M1746	H1686	Q1626	T1566	D1506	G1446
T2167	D2107	I2047	K1987	I1927	A1867	L1807	K1747	M1687	R1627	T1567	A1507	M1447
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T2170	N2110	V2050	F1990	E1930	G1870	L1810	Y1750	T1690	S1630	P1570	S1510	Q1450
M2171	L2111	L2051	A1991	V1931	P1871	R1811	K1751	V1691	K1631	G1571	I1511	Y1451
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R2173	A2113	V2053	C1993	S1933	G1873	R1813	Q1753	H1693	F1633	Y1573	F1513	P1453
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V2176	R2116	S2056	I1996	A1936	K1876	D1816	Q1756	T1696	M1636	L1576	Q1516	P1456
W2177	K2117	L2057	V1997	V1937	T1877	E1817	L1757	E1697	A1637	E1577	R1517	T1457
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D2179	I2119	R2059	D1999	V1939	T1879	K1819	T1759	V1699	M1639	I1579	W1519	P1459
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L2181	D2121	D2061	E2001	S1941	K1881	C1821	I1761	A1701	F1641	G1581	H1521	L1461
K2182	L2122	P2062	L2002	I1942	D1882	F1822	T1762	Y1702	Q1642	R1582	L1522	L1462
K2183	K2123	D2063	I2003	Q1943	L1883	A1823	M1763	E1703	L1643	L1583	E1523	C1463
Q2185	L2124	R2064	C2004	D1944	G1884	M1824	L1764	E1704	D1644	C1584	S1524	S1464
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E2127	A2126	E2066	I2006	I1946	A1886	C1826	G1766	P1706	S1646	C1586	F1526	E1466
D2128	E2127	Q2067	M2007	R1947	L1887	D1827	Q1767	R1707	G1647	K1587	T1527	D1467
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F2130	N2129	V2069	V2009	K1949	I1889	Q1829	S1769	Q1709	P1649	A1589	S1529	I1469
L2131	F2130	L2070	A2010	K1950	L1890	F1830	K1770	W1710	T1650	L1590	E1530	E1470
L2132	L2131	M2071	E2011	Q1951	V1891	L1831	G1771	L1711	K1651	A1591	D1531	V1471
K2133	K2133	S2073	F2013	F1953	V1893	S1833	R1773	F1712	S1653	E1593	I1533	E1473
V2134	V2134	L2074	I2014	S1954	F1894	Y1834	Q1774	H1714	L1654	L1594	A1534	D1474
V2135	L2135	R2075	E2015	F1955	M1895	E1835	K1775	P1715	G1655	D1595	M1475	M1475
Q2136	Q2136	D2076	A2016	L1956	C1896	W1836	I1776	A1716	M1656	L1596	Q1536	O1476
L2137	L2137	F2077	Q2017	G1957	S1897	L1837	M1777	Q1717	Y1657	K1597	P1537	V1477
E2138	E2138	N2078	S2018	E1958	E1898	G1838	T1778	V1718	S1658	R1598	Q1538	O1478
E2139	E2139	I2079	L2019	E1959	Q1899	M1839	I1779	A1719	K1659	L1599	D1539	L1479
E2140	E2140	P2080	L2020	I1960	M1900	C1780	C1780	L1720	E1660	A1600	S1540	O1480
L2141	L2141	K2081	R2021	S1961	D1901	P1841	T1781	T1721	E1661	F1601	K1541	M1481
A2142	A2142	I2082	K2022	L1962	Y1902	R1842	I1782	C1722	E1662	P1602	R1542	L1482

F2969	Y2909	I2849	W2774	Y2707	S2643	L2520	V2461	Q2390	P2323	K2263	D2203
P2970	S2910	T2850	E2775	L2708	L2644	E2521	C2461	L2391	T2324	L2264	G2204
A2971	D2911	L2851	L2776		Q2645	K2522	Y2462	V2392	C2325	L2265	L2205
L2972	D2912	R2852	L2777	S2711	K2646	P2523	F2463	D2393	L2326	F2266	F2206
V2973	E2913	K2853	T2778	N2712	L2648	E2524	M2464	Y2394	K2335	E2267	S2207
C2974	D2914	Q2854	Q2779	Y2715	P2649	E2526	E2465	R2395	L2336	I2268	S2208
N2975	N2915	Y2855	L2780	D2716	P2650	K2526	R2466	A2396	I2337	S2269	I2209
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T2977	N2917	I2857	L2782	D2718	Q2588	K2528	M2468	T2408	P2339	R2271	R2211
A2978	I2918	K2858	K2718	K2718	L2652	A2528	A2469	F2411	L2339	R2272	E2212
H2979	S2919	D2859	M2719	M2719	D2653	G2529	R2470	P2412	P2340	T2273	L2213
W2980	N2920	F2860	L2785	V2720	L2654	R2530	R2471	S2413	E2341	A2274	A2214
	V2921	K2861	E2786	E2721	A2655	N2531	Q2471	P2414	Q2342	T2275	H2215
	R2922	M2862	L2788	E2722	L2656	G2532	R2472	S2413	S2343	P2276	L2216
	N2923	D2863	K2788	K2723	A2657	P2534	P2473	Q2414	M2344	A2277	T2217
	E2924	L2864	M2789	D2724	F2658	P2535	V2474	G2415	W2345	T2278	H2218
	V2925	A2865	H2859	F2725	H2659	G2536	M2475	T2416	Q2346	V2279	D2219
	K2926	S2866	Q2660	D2726	Q2660	N2537	V2477	L2417	M2347	S2280	G2220
	S2927	L2867	K2661	L2727	K2661	K2538	G2478	F2418	V2348	R2281	F2221
	Q2928	C2868	L2662	F2728	L2662	L2540	T2479	D2419	C2349	A2282	K2222
	G2929	K2869	A2663	D2729	F2600	K2539	A2480	Y2420	H2350	G2283	W2223
	L2930	L2870	T2664	K2730	L2541	L2541	G2481	Y2421	L2351	I2284	L2224
	V2931	A2871	T2665	L2731	Y2542	Y2542	T2482	D2422	E2353	L2285	L2225
	D2932	G2872	F2666	Q2732	F2543	F2543	G2483	D2423	E2354	Y2286	L2226
	N2933	V2873	L2667	T2733	L2544	L2544	K2484	P2424	C2354	I2287	D2227
	R2934	K2874	P2668	Q2734	D2546	D2546	S2485	E2425	L2355	N2288	G2228
	E2935	M2875	T2669	V2735	D2547	M2547	V2486	T2426	L2356	P2289	D2229
	N2936	G2876	G2670	K2737	M2547	M2548	L2487	K2428	T2357	A2290	I2230
	Q2937	L2877	L2671	L2738	R2608	N2548	V2488	F2429	T2358	D2291	D2231
	W2938	D2802	K2672	K2738	H2609	M2549	G2489	E2430	E2359	L2292	P2232
	N2939	A2803	F2673	T2739	F2610	P2550	A2490	E2431	D2360	G2293	K2233
	F2940	R2805	H2674	F2740	S2611	E2551	K2491	W2432	I2361	N2294	W2234
	F2941	H2806	Y2675	D2741	V2612	V2552	L2492	M2433	P2362	N2295	I2235
	I2942	L2813	L2676	D2742	F2613	D2553	A2493	S2433	A2363	P2296	E2236
	L2943	L2814	F2677	E2743	V2614	A2554	S2494	K2434	D2364	P2297	S2237
	R2944	M2678	N2678	I2744	L2615	Y2555	L2495	L2435	P2365	V2298	L2238
	I2945	P2616	S2616	D2745	S2616	G2556	D2496	V2436	P2366	S2299	N2239
	K2946	R2617	R2617	P2746	F2617	T2557	P2497	Q2437	K2367	W2301	W2241
	Q2947	G2618	D2681	V2747	V2618	V2558	E2498	F2439	E2368	I2302	M2242
	Q2948	M2619	F2682	E2748	G2619	Q2559	A2499	E2440	I2369	E2303	D2243
	L2949	A2683	A2683	Q2749	A2620	P2560	Y2500	F2441	Y2370	K2304	D2244
	K2950	L2621	A2622	T2750	D2621	H2561	L2501	D2442	E2371	R2305	M2245
	V2951	L2623	L2685	Q2751	A2622	T2562	V2502	P2443	Y2372	E2306	K2246
	T2952	L2623	F2686	S2752	L2623	I2563	K2503	E2444	F2373	I2307	W2247
	L2953	Q2687	Q2687	P2753	L2564	L2564	M2504	M2445	F2374	Q2308	L2248
	N2954	Q2687	S2624	N2754	R2565	R2565	V2505	P2446	V2375	T2309	L2249
	F2955	S2693	L2626	A2760	Q2566	Q2566	P2506	F2447	A2377	E2310	L2250
	L2956	V2694	Y2627	M2761	H2567	H2567	F2507	L2447	A2378	R2311	A2251
	S2957	E2695	S2628	G2762	L2568	L2568	N2508	Q2448	A2379	A2312	S2252
	V2958	C2696	I2629	I2763	D2569	D2569	Y2509	C2449	W2380	N2313	M2253
	G2959	L2697	L2630	G2764	Y2570	G2571	Y2510	L2451	A2381	L2314	E2254
	N2960	L2631	L2631	E2765	G2571	H2572	T2511	V2452	F2382	G2383	R2255
	K2961	T2632	Q2633	K2766	H2572	K2573	S2513	H2453	G2384	I2315	T2256
	L2962	T2700	W2701	L2767	Y2574	Y2574	A2514	T2454	A2385	L2316	F2257
	R2963	D2702	D2702	D2702	D2575	D2575	M2515	E2456	M2386	L2317	L2258
	G2964	L2703	L2703	L2704	R2576	R2576	L2516	T2457	Q2387	D2319	M2259
	V2965	L2704	L2704	L2705	K2577	K2577	Q2517	I2458	Q2388	K2320	T2261
	S2966	R2705	R2705	L2706	K2578	K2578	A2642	L2459	D2389	L2322	

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V3769	E3810	K3704	L3644	D3584	E3514	A3453	F3393	K3333	E3033	V3213	E3153	E3033	E3033
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V3771	E3812	F3706	L3646	L3586	S3516	L3455	K3395	Q3335	P3155	M215	P3155	V3095	R3035
V3772	E3813	S3707	T3647	L3587	I3517	L3456	K3396	Q3336	A3156	A3216	A3156	E3096	Y3036
E3773	E3814	I3708	K3648	A3588	D3518	L3457	Y3397	E3337	L3157	K3217	L3157	R3037	R3037
V3774	E3815	V3709	Q3649	A3589	P3519	N3458	R3398	A3338	T3158	V3218	T3158	K3098	Y3038
	E3816	F3710	T3650	A3590	V3520	C3459	R3399	E3339	F3279	D3219	A3159	Q3099	T3039
Q3711	E3817	V3711	A3651	V3591	L3521	E3460	S3400	V3340	A3160	G3220	A3160	K3100	T3040
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A3717	E3823	A3717	K3657	D3597	W3406	V3466	W3406	S3346	T3166	I3226	T3166	E3046	E3046
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P3719	E3825	P3719	Q3659	E3599	F3468	F3468	P3408	A3348	N3168	F3228	N3168	I3108	L3048
D3720	E3826	D3720	E3660	Q3600	L3470	Q3469	Y3409	N3349	K3169	N3229	K3169	Q3109	R3049
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S3722	E3828	S3722	K3662	K3602	G3472	G3472	S3411	E3351	R3171	E3231	R3171	V3111	Y3051
L3723	E3829	L3723	S3663	S3603	I3473	Q3473	Q3412	V3352	L3172	A3292	L3172	G3112	Q3052
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E3725	E3831	E3725	E3665	L3605	W3475	W3475	K3414	G3354	E3174	A3294	E3174	L3114	L3054
R3726	E3832	R3726	V3666	T3606	L3476	L3476	T3415	L3355	L3175	E3235	L3175	T3115	L3055
V3727	E3833	V3727	K3667	K3607	K3477	K3477	P3416	A3356	K3176	D3236	K3176	H3056	H3056
A3728	E3834	A3728	L3668	Q3608	I3477	I3477	I3417	S3357	S3177	C3237	S3177	R3057	R3057
N3729	E3835	N3729	N3669	Q3609	M3478	M3478	P3418	E3358	F3178	L3238	F3178	H3058	H3058
L3730	E3836	L3730	E3670	N3610	Y3419	Y3419	R3418	N3359	K3179	K3239	K3179	R3059	R3059
I3731	E3837	I3731	A3671	G3611	F3480	F3480	T3420	A3360	S3180	A3240	S3180	R3120	K3060
D3732	E3838	D3732	R3672	F3612	E3481	E3481	P3421	R3361	P3181	I3241	P3181	E3121	E3061
S3733	E3839	S3733	E3673	K3613	E3482	E3482	A3422	W3362	P3182	R3242	P3182	K3122	L3062
I3734	E3840	I3734	H3674	L3614	D3483	D3483	L3423	A3363	L3183	Q3243	L3183	A3123	K3063
T3735	E3841	T3735	Y3675	T3615	L3484	L3484	R3424	D3364	A3184	Y3244	A3184	M3124	C3064
F3736	E3842	F3736	R3676	L3616	R3485	R3485	P3425	A3365	V3185	L3245	V3185	A3125	K3065
S3737	E3843	S3737	P3677	K3617	T3486	T3486	L3426	V3366	S3186	Q3246	S3186	D3126	T3066
V3738	E3844	V3738	A3678	T3618	T3487	T3487	R3427	Q3367	R3187	D3247	R3187	E3127	E3067
V3739	E3845	V3739	F3679	L3619	Q3488	Q3488	M3428	N3368	V3188	P3248	V3188	A3128	R3068
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Y3741	E3847	Y3741	R3681	D3621	Q3490	Q3490	M3430	K3370	A3190	F3250	A3190	Q3130	E3070
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Y3686	E3852	Y3686	L3566	L3566	L3495	L3495	W3435	T3375	L3195	V3255	L3195	I3135	K3075
R3687	E3853	R3687	Q3567	Q3567	Q3496	Q3496	A3436	L3376	M3196	A3256	M3196	M3136	L3076
L3688	E3854	L3688	L3627	L3627	L3497	L3497	A3437	C3377	A3197	T3257	A3197	L3137	H3077
I3689	E3855	I3689	Q3569	Q3569	L3498	L3498	W3438	Q3378	P3198	K3258	P3198	E3138	S3078
N3690	E3856	N3690	A3570	A3570	E3499	E3499	Q3439	D3379	S3259	S3259	S3199	V3139	T3079
D3691	E3857	D3691	T3571	T3571	Q3500	Q3500	R3440	K3380	G3200	Y3260	G3200	K3140	S3080
L3692	E3858	L3692	L3572	L3572	A3501	A3501	E3441	L3381	Q3141	A3261	R3201	Q3141	A3081
S3693	E3859	S3693	I3573	I3573	L3502	L3502	G3442	L3382	V3202	A3262	V3202	K3142	Q3082
K3694	E3860	K3694	N3574	N3574	E3503	E3503	L3443	I3383	P3203	A3263	P3203	Q3143	V3083
L3695	E3861	L3695	F3575	F3575	A3504	A3504	P3444	T3384	K3144	G3264	K3144	K3144	D3084
H3696	E3862	H3696	T3576	T3576	E3505	E3505	A3445	A3385	D3205	L3265	D3205	D3145	D3085
E3697	E3863	E3697	V3577	V3577	R3446	R3446	D3446	F3386	C3206	G3266	C3206	C3146	L3086
P3698	E3864	P3698	T3578	T3578	R3447	R3447	R3447	I3387	S3207	E3267	S3207	E3147	K3087
V3699	E3865	V3699	R3579	R3579	M3448	M3448	M3448	L3388	W3208	N3268	W3208	E3148	A3088
I3700	E3866	I3700	Q3700	Q3700	L3511	L3511	S3449	Y3389	K3209	V3269	K3209	D3149	K3089
F3701	E3867	F3701			G3581	G3581	V3450	L3390	A3210	I3270	A3210	L3150	L3090



● Molecule 104: Dynein axonemal heavy chain 9



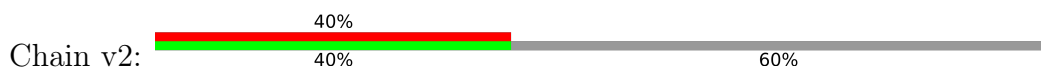
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V736	A737	N738	L739	E740	L741	M742	A743	N744	M745	Y746	N747	K748	M750	K751	L752	L753	L754	E755	Q766	L770	E777	T778	L779	G785	I786	C787	D788	Y789	T791	E792	I793	T794	T828	K829	D830	G831	K832	R833	I834	E834	S835	L836	L837	S838	L839	D840	D841	D844	Y805	E908										
N909	T910	E911	C912	K913	A914	G915	L916	T917	P918	I919	F920	E921	L926	A927	I928	P929	E930	L931	T991	R996	Q997	R998	M999	M1000	G1001	L1002	C1003	C1004	G1005	Q1007	S1008	T1009	F1010	S1011	Q1012	Y1013	S1014	Y1015	L1016	Y1017	V1018	S835	L836	L837	S838	L839	D840	Q1027	F1028	L1029	L1030	Y1031	G1032	H1033						
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L2322	K2202	A2142	I2082	A2142	I2082	K2022	L1962	Y1902	R1842	I1782	C1722	E1662
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T2324	G2204	R2144	T2084	R2144	T2084	I2024	P1964	S1904	V1844	Y1784	Q1724	A1665
C2325	L2205	H2145	D2085	H2145	D2085	T2025	S1965	C1905	I1845	H1785	I1725	A1665
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I2337	M2210	M2210	F2090	V2150	F2090	C2030	I1970	K1910	D1850	V1790	E1730	C1670
P2338	R2211	G2151	M2091	G2151	M2091	K2031	T1971	R1851	I1791	K1791	V1731	D1671
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V2345	H2218	S2158	F2098	S2158	F2098	D2038	G1978	W1918	Q1858	V1798	L1738	I1678
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M2347	G2220	V2160	A2100	V2160	A2100	Y2040	L1980	C1920	L1860	M1900	E1740	L1680
V2348	P2221	L2161	L2101	L2161	L2101	D2041	E1981	F1921	H1861	A1801	G1741	M1681
C2349	K2222	R2162	D2102	R2162	D2102	W2042	L1982	D1922	L1862	Q1802	Y1742	H1682
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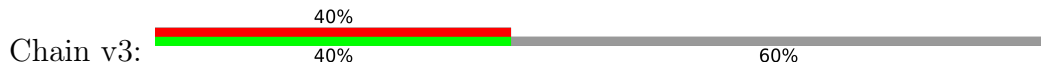
MET	GLY	SER	ARG	LYS	LYS	GLU	ILE	ALA	L10	Q11	V12	M13	I14	S15	T16	Q17	E18	L19	W20	E21	E22	M23	L24	S25	S26	K27	G28	L29	T30	V31	V32	D33	V34	Y35	Q36	G37	W38	C39	P41	C42	K43	P44	V45	W46	S47	L48	F49	Q50	K51	M52	R53	I54	E55	G57	L58	D59	L60		
L61	H62	F63	A64	L65	A66	E67	A68	D69	R70	L71	D72	V73	L74	E75	K76	Y77	R78	G79	K80	C81	E82	P83	T84	F85	L86	F87	Y88	A89	G90	G91	E92	L93	V94	A95	V96	W97	R98	G99	A100	N101	A102	P103	L104	L105	S47	Q106	K107	T108	I109	L110	D111	Q112	L113	E114	A115	E116	K117	V119	L120
A121	E122	G123	R124	E125	R126	K127	V128	I129	K130	D131	E132	A133	L134	S135	D136	E137	D138	E139	C140	V141	HIS	GLY	LYS	ASN	GLY	GLU	ASP	GLU	ASP	GLU	ASP	VAL	HIS	SER	SER	GLU	ARG	THR	THR	THR	PRO	ILE	ILE	LYS	PRO	ASP	ALA	VAL	ALA	ALA	HIS	GLY	GLU	LYS	THR	ASP			
LYS	ILE	GLN	GLU	ALA	GLY	PHE	GLU	ILE	GLY	LEU	THR	ASN	GLY	VAL	ARG	THR	GLY	ALA	GLN	VAL	GLY	ALA	GLY	GLU	GLU	GLU	GLU	GLU	GLU	VAL	HIS	HIS	HIS	SER	GLY	THR	PRO	CYS	ARG	GLY	LEU	LEU	ILE	ILE	LYS	LEU	THR	ARG	THR	THR	GLY	PHE	GLU	GLU	ASP				
VAL	VAL	THR	TRP	ARG	THR	VAL	MET	VAL	ASP	PRO	PRO	ASN	VAL	ARG	ARG	THR	GLU	GLN	VAL	PRO	GLU	LEU	LEU	GLY	ALA	GLN	GLY	THR	GLU	MET	PRO	PHE	ASN	ALA	VAL	HIS	GLY	THR	CYS	ARG	GLU	ARG	ALA	ALA	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	PHE					
SER	ASP	LYS	ASP	THR	GLU	ALA	PRO	GLN	GLY	GLY	GLU	ALA	ALA	THR	ALA	GLY	PRO	THR	ALA	GLN	ASP	VAL	GLY	LYS	ASN	GLY	GLU	ASP	GLU	ASP	VAL	HIS	SER	SER	GLU	ARG	THR	THR	CYS	PRO	CYS	ARG	GLU	ALA	ALA	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	PHE					

• Molecule 105: Thioredoxin domain-containing protein 6

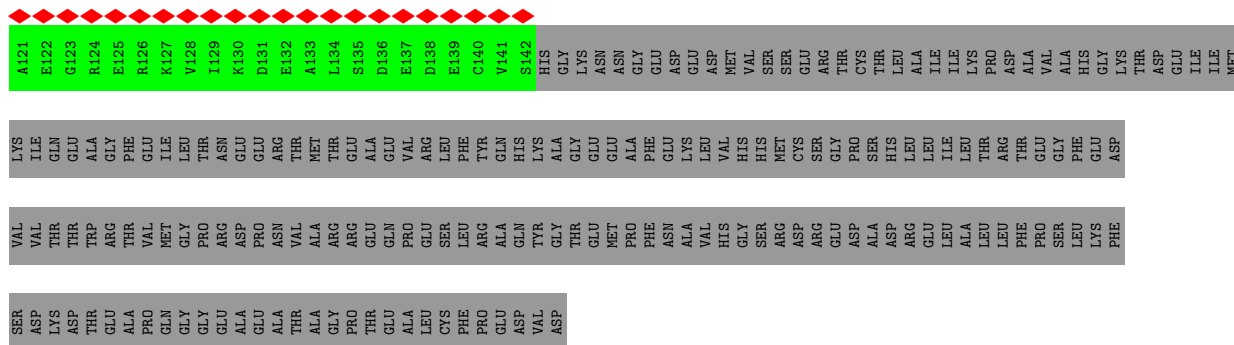


MET	GLY	SER	ARG	LYS	LYS	GLU	ILE	ALA	L10	Q11	V12	M13	I14	S15	T16	Q17	E18	L19	W20	E21	E22	M23	L24	S25	S26	K27	G28	L29	T30	V31	V32	D33	V34	Y35	Q36	G37	W38	C39	P41	C42	K43	P44	V45	W46	S47	L48	F49	Q50	K51	M52	R53	I54	E55	G57	L58	D59	L60		
L61	H62	F63	A64	L65	A66	E67	A68	D69	R70	L71	D72	V73	L74	E75	K76	Y77	R78	G79	K80	C81	E82	P83	T84	F85	L86	F87	Y88	A89	G90	G91	E92	L93	V94	A95	V96	W97	R98	G99	A100	N101	A102	P103	L104	L105	S47	Q106	K107	T108	I109	L110	D111	Q112	L113	E114	A115	E116	K117	V119	L120
A121	E122	G123	R124	E125	R126	K127	V128	I129	K130	D131	E132	A133	L134	S135	D136	E137	D138	E139	C140	V141	HIS	GLY	LYS	ASN	GLY	GLU	ASP	GLU	ASP	VAL	HIS	SER	SER	GLU	ARG	THR	THR	THR	PRO	ILE	ILE	LYS	PRO	ASP	ALA	VAL	ALA	ALA	HIS	GLY	GLU	LYS	THR	ASP					
LYS	ILE	GLN	GLU	ALA	GLY	PHE	GLU	ILE	GLY	LEU	THR	ASN	GLY	VAL	ARG	THR	GLY	ALA	GLN	VAL	PRO	GLU	LEU	LEU	GLY	ALA	GLN	VAL	GLY	ALA	GLY	THR	PRO	CYS	ARG	GLU	ARG	THR	THR	THR	PRO	ILE	ILE	LYS	LEU	THR	ARG	THR	THR	GLY	PHE	GLU	GLU	ASP					
VAL	VAL	THR	TRP	ARG	THR	VAL	MET	VAL	ASP	PRO	PRO	ASN	VAL	ARG	ARG	THR	GLU	GLN	VAL	PRO	GLU	LEU	LEU	GLY	ALA	GLN	GLY	THR	GLU	MET	PRO	PHE	ASN	ALA	VAL	HIS	GLY	THR	CYS	ARG	GLU	ARG	ALA	ALA	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	PHE					
SER	ASP	LYS	ASP	THR	GLU	ALA	PRO	GLN	GLY	GLY	GLU	ALA	ALA	THR	ALA	GLY	PRO	THR	ALA	GLN	ASP	VAL	GLY	LYS	ASN	GLY	GLU	ASP	GLU	ASP	VAL	HIS	SER	SER	GLU	ARG	THR	THR	CYS	PRO	CYS	ARG	GLU	ALA	ALA	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	PHE					

• Molecule 105: Thioredoxin domain-containing protein 6



MET	GLY	SER	ARG	LYS	LYS	GLU	ILE	ALA	L10	Q11	V12	M13	I14	S15	T16	Q17	E18	L19	W20	E21	E22	M23	L24	S25	S26	K27	G28	L29	T30	V31	V32	D33	V34	Y35	Q36	G37	W38	C39	P41	C42	K43	P44	V45	W46	S47	L48	F49	Q50	K51	M52	R53	I54	E55	G57	L58	D59	L60		
L61	H62	F63	A64	L65	A66	E67	A68	D69	R70	L71	D72	V73	L74	E75	K76	Y77	R78	G79	K80	C81	E82	P83	T84	F85	L86	F87	Y88	A89	G90	G91	E92	L93	V94	A95	V96	W97	R98	G99	A100	N101	A102	P103	L104	L105	S47	Q106	K107	T108	I109	L110	D111	Q112	L113	E114	A115	E116	K117	V119	L120



● Molecule 106: Leucine-rich repeat-containing protein 34



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	90482	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	23.857	Depositor
Minimum map value	0.000	Depositor
Average map value	0.313	Depositor
Map value standard deviation	1.129	Depositor
Recommended contour level	3.0	Depositor
Map size (\AA)	848.03, 885.02, 1093.26	wwPDB
Map dimensions	619, 646, 798	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.37, 1.37, 1.37	Depositor

5 Model quality i

5.1 Standard geometry i

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

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	1
11	1Y	0	2
17	2Y	0	1
23	4H	0	1
23	4J	0	1
25	4T	0	1
34	6C	0	1
34	6I	0	1
34	6K	0	1
42	AM	0	1
42	CM	0	1
42	CU	0	1
42	DC	0	1
42	EK	0	1
42	EM	0	1
42	GQ	0	1
42	HK	0	1
42	LE	0	1
42	OC	0	1
42	PA	0	1
42	RW	0	1
42	SI	0	1
43	BD	0	1
43	BL	0	1
43	BX	0	1
43	CL	0	1
43	DB	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
43	DF	0	1
43	DX	0	1
43	DZ	0	1
43	EV	0	1
43	FV	0	1
43	HV	0	1
43	JH	0	1
43	KF	0	1
43	LR	0	1
43	MD	0	1
43	NL	0	1
43	OF	0	1
43	ON	0	1
43	PV	0	1
43	QJ	0	1
43	SL	0	1
43	SX	0	1
43	UL	0	1
43	UZ	0	1
43	VN	0	1
43	WH	0	1
43	WL	0	1
45	j	0	1
47	N	0	1
58	b1	0	1
58	b2	0	1
64	d2	0	2
67	d8	0	1
67	f1	0	1
68	e5	0	1
70	g1	0	2
71	g2	0	2
73	g5	0	2
74	g6	0	5
75	h2	0	1
77	i1	0	1
78	i2	0	1
80	i4	0	1
82	i9	0	2
84	j3	0	2
89	q4	0	1
92	k9	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
97	q2	0	1
99	o6	0	1
101	m8	0	1
102	u9	0	1
103	n0	0	1
103	r0	0	3
104	n9	0	1
104	p9	0	2
104	r9	0	1
104	t9	0	1
All	All	0	94

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 94 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	175	ARG	Sidechain
11	1Y	61	ARG	Peptide,Sidechain
17	2Y	64	ASP	Peptide
23	4H	54	PRO	Peptide
23	4J	54	PRO	Peptide

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 859 ligands modelled in this entry, 285 are monoatomic - leaving 574 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-35888. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

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

6.2 Central slices [i](#)

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

6.3 Largest variance slices [i](#)

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

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

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](#)

The images above show the 3D surface view of the map at the recommended contour level 3.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

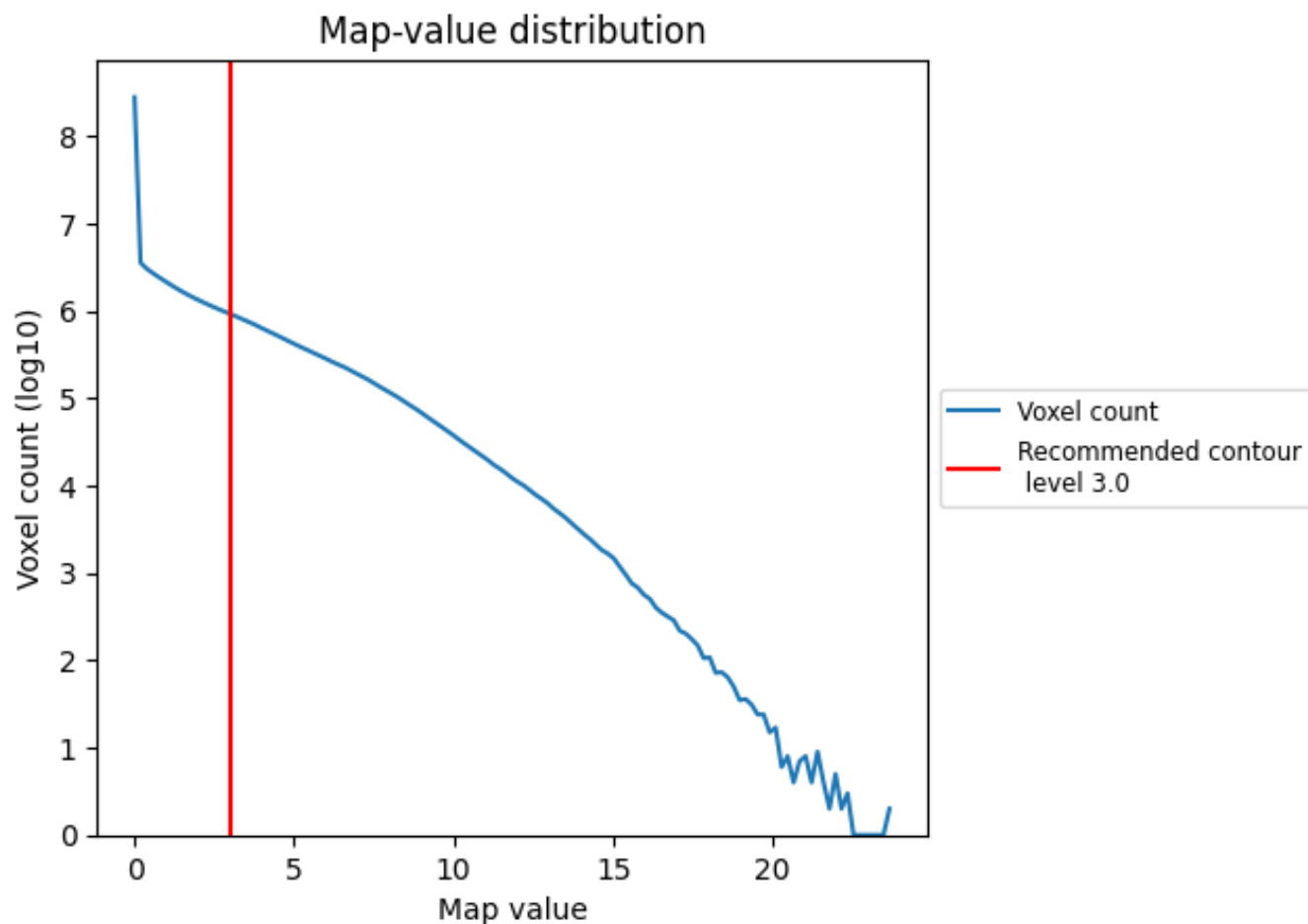
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

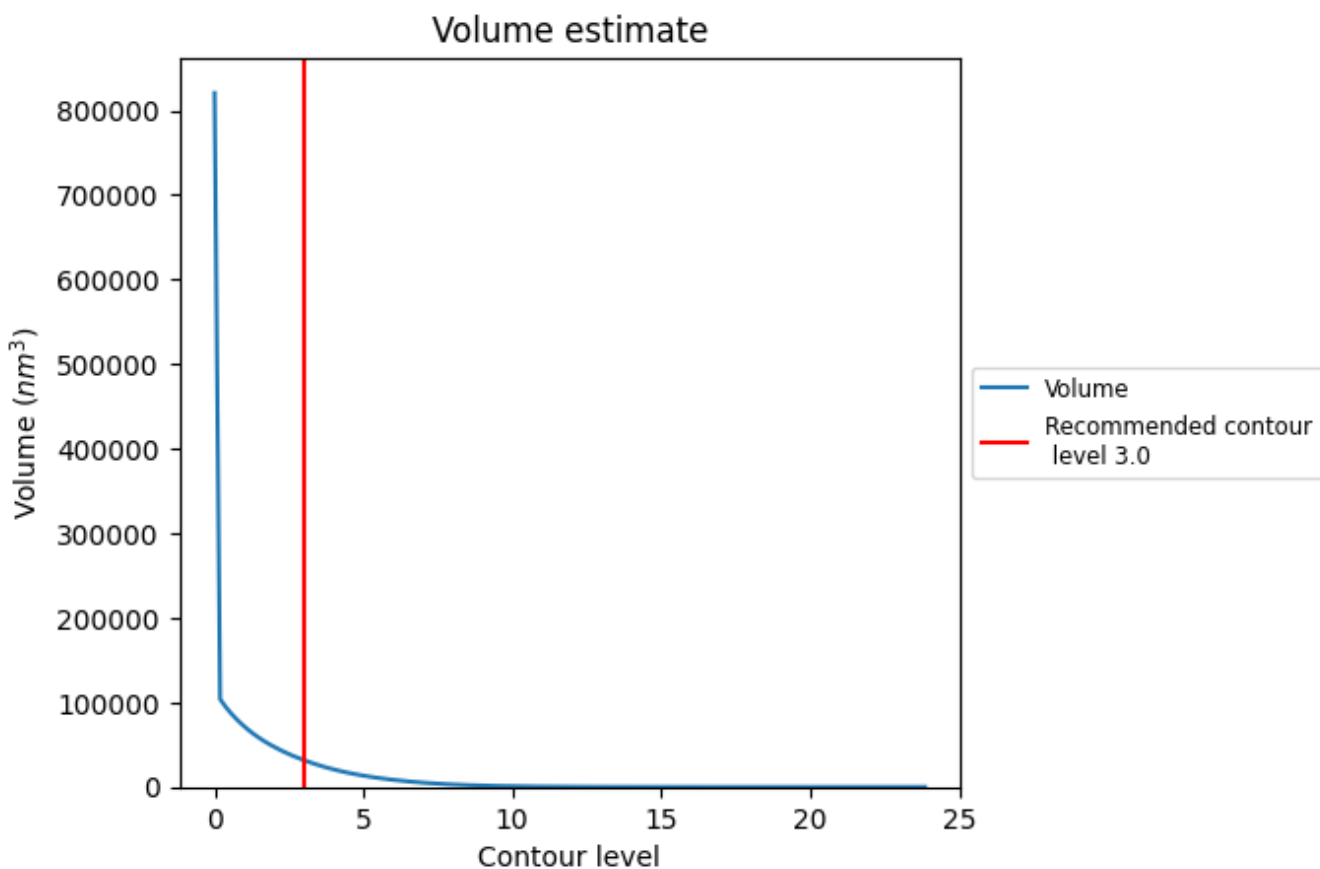
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 31677 nm^3 ; this corresponds to an approximate mass of 28615 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](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-35888 and PDB model 8J07. Per-residue inclusion information can be found in section 3 on page 141.

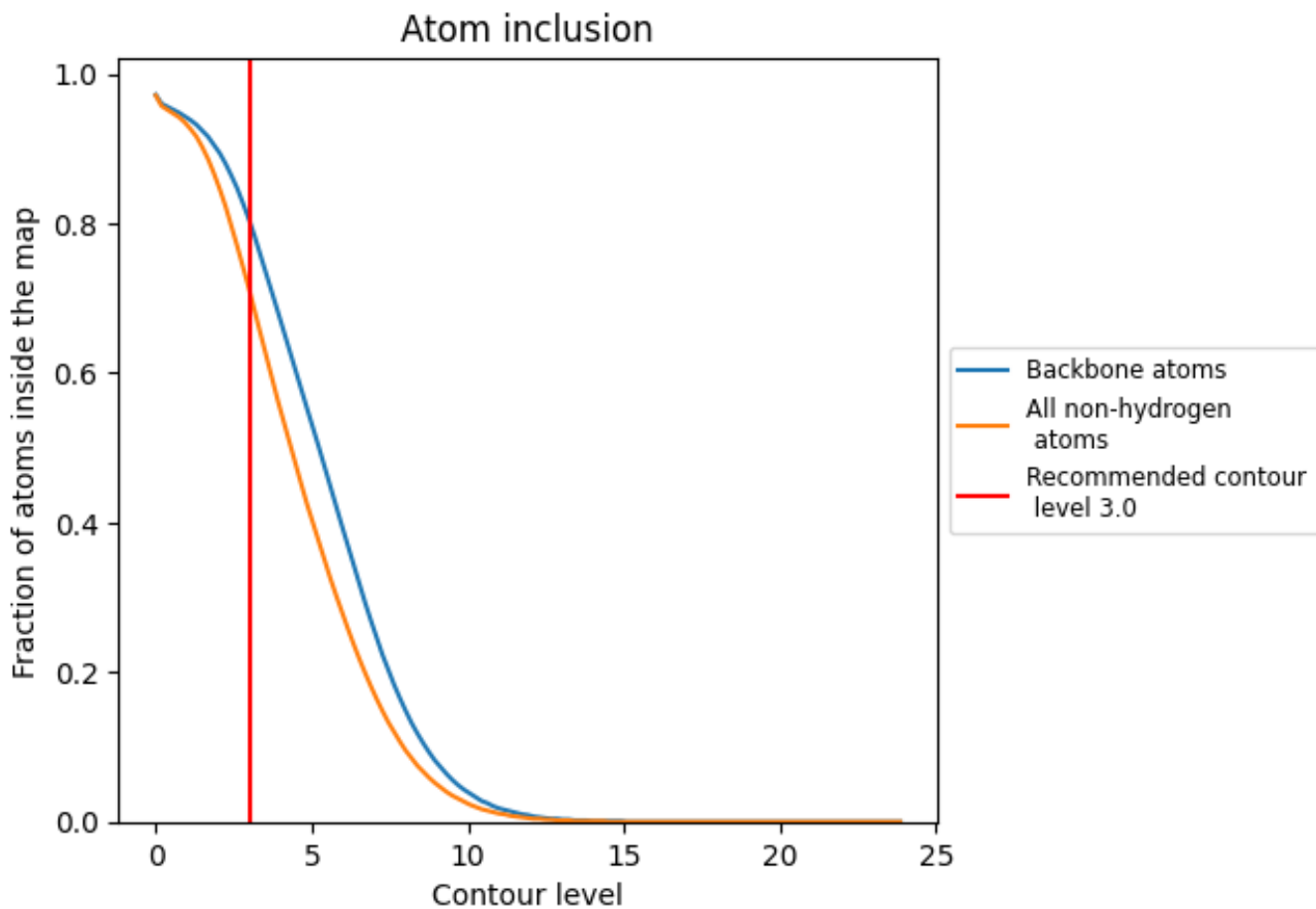
The images above show the 3D surface view of the map at the recommended contour level 3.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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

This section was not generated.

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 (3.0).

9.2 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.3 Map-model fit summary











































The table lists the average atom inclusion at the recommended contour level (3.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion
All	0.7110
0	0.5630
1	0.4760
10	0.4370
11	0.1150
12	0.2450
13	0.1800
14	0.2660
1A	0.6540
1B	0.6620
1C	0.6960
1D	0.4570
1E	0.5410
1F	0.5470
1G	0.6150
1H	0.5700
1I	0.5260
1J	0.5440
1L	0.7500
1M	0.7650
1N	0.7420
1O	0.7440
1P	0.7620
1Q	0.7290
1R	0.6540
1S	0.6340
1T	0.6660
1V	0.6120
1W	0.6000
1Y	0.6950
1Z	0.7140
2	0.5030
2A	0.8260
2B	0.8360
2C	0.8330













































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Chain	Atom inclusion
2D	 0.8450
2E	 0.8450
2F	 0.8390
2G	 0.8350
2I	 0.6710
2J	 0.6760
2L	 0.6680
2M	 0.7300
2N	 0.6780
2O	 0.7230
2Q	 0.6090
2R	 0.6020
2S	 0.6220
2U	 0.7460
2V	 0.7710
2W	 0.7610
2X	 0.7690
2Y	 0.7720
2Z	 0.7600
3	 0.8170
3A	 0.7950
3B	 0.8040
3C	 0.7580
3D	 0.7950
3E	 0.7740
3F	 0.7540
3G	 0.7120
3H	 0.7060
3I	 0.7060
3J	 0.7290
3K	 0.7340
3L	 0.5840
3M	 0.7090
3O	 0.6500
3P	 0.6620
3Q	 0.6930
3R	 0.6640
3S	 0.6610
3T	 0.7030
3U	 0.6520
3W	 0.6030
3X	 0.5930











































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Chain	Atom inclusion
3Y	 0.5900
4	 0.5530
4A	 0.6430
4B	 0.1460
4C	 0.5460
4D	 0.2550
4E	 0.6330
4F	 0.1130
4G	 0.6020
4H	 0.1740
4I	 0.5900
4J	 0.3880
4K	 0.4360
4L	 0.0520
4M	 0.5090
4O	 0.7180
4P	 0.7110
4Q	 0.7120
4R	 0.6940
4S	 0.7390
4T	 0.7360
4U	 0.5590
4V	 0.5420
4W	 0.7210
5	 0.0510
5A	 0.7510
5B	 0.7580
5C	 0.7660
5D	 0.4100
5E	 0.4320
5F	 0.3880
5H	 0.6490
5I	 0.6630
5J	 0.7020
5L	 0.7250
5M	 0.7290
5O	 0.7170
5P	 0.7090
5Q	 0.6940
5R	 0.6800
5S	 0.7080
5T	 0.6960











































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Chain	Atom inclusion
5U	 0.6880
5V	 0.7680
5X	 0.7180
5Y	 0.7000
6A	 0.5690
6C	 0.3700
6E	 0.5350
6G	 0.3420
6I	 0.3140
6K	 0.2640
6L	 0.5660
6N	 0.3700
6O	 0.5410
6Q	 0.4590
6R	 0.4220
6T	 0.2890
6V	 0.5660
7	 0.4620
7A	 0.3630
7B	 0.3190
7C	 0.2100
7D	 0.5340
7E	 0.3840
7F	 0.4580
7G	 0.3630
7I	 0.6780
7J	 0.6630
8	 0.0020
8A	 0.7190
8B	 0.6910
8C	 0.6750
8D	 0.6960
8E	 0.7110
8F	 0.7090
8G	 0.6920
8H	 0.7820
8J	 0.4840
8K	 0.1900
8L	 0.1990
8M	 0.2260
8N	 0.3440
8O	 0.2610











































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Chain	Atom inclusion
8P	 0.2090
8Q	 0.4620
9	 0.5000
A	 0.7900
AB	 0.8810
AC	 0.8880
AD	 0.8780
AE	 0.8840
AF	 0.8950
AG	 0.9010
AH	 0.8730
AI	 0.8770
AJ	 0.8720
AK	 0.8760
AL	 0.8800
AM	 0.8900
AN	 0.8730
AO	 0.8920
AP	 0.8840
AQ	 0.9010
AR	 0.8860
AS	 0.8890
AT	 0.8890
AU	 0.8870
AV	 0.8730
AW	 0.8830
AX	 0.8820
AY	 0.8900
AZ	 0.9030
B	 0.7380
BA	 0.8610
BB	 0.8670
BC	 0.8590
BD	 0.8570
BE	 0.8500
BF	 0.8720
BG	 0.8750
BH	 0.8740
BI	 0.8660
BJ	 0.8500
BK	 0.8390
BL	 0.8410











































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Chain	Atom inclusion
BM	 0.8610
BN	 0.8580
BO	 0.8570
BP	 0.8650
BQ	 0.8640
BR	 0.8670
BS	 0.8430
BT	 0.8420
BU	 0.8190
BV	 0.7820
BW	 0.8230
BX	 0.8610
BY	 0.8690
C	 0.7310
CB	 0.8710
CC	 0.8660
CD	 0.8620
CE	 0.8120
CF	 0.8420
CG	 0.8590
CH	 0.8580
CI	 0.8530
CJ	 0.8330
CK	 0.8420
CL	 0.8400
CM	 0.8490
CN	 0.8610
CO	 0.8520
CP	 0.8660
CQ	 0.8640
CR	 0.8800
CS	 0.8710
CT	 0.8560
CU	 0.8180
CV	 0.7680
CW	 0.8500
CX	 0.8490
CY	 0.8550
CZ	 0.8370
D	 0.9810
DB	 0.8580
DC	 0.8520











































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Chain	Atom inclusion
DD	 0.8680
DE	 0.8010
DF	 0.8460
DG	 0.8420
DH	 0.8730
DI	 0.8610
DJ	 0.8220
DK	 0.8370
DL	 0.8680
DM	 0.8470
DN	 0.8630
DO	 0.8480
DP	 0.8580
DQ	 0.8600
DR	 0.8930
DS	 0.8770
DT	 0.8790
DU	 0.8430
DV	 0.7870
DW	 0.8320
DX	 0.8590
DY	 0.8460
DZ	 0.8480
E	 0.5560
EB	 0.8170
EC	 0.8160
ED	 0.8470
EE	 0.7910
EF	 0.8090
EG	 0.8130
EH	 0.8340
EI	 0.8080
EJ	 0.7650
EK	 0.7790
EL	 0.8280
EM	 0.8190
EN	 0.8280
EO	 0.8230
EP	 0.8250
EQ	 0.8260
ER	 0.8440
ES	 0.8230

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Chain	Atom inclusion
ET	 0.8350
EU	 0.7890
EV	 0.7690
EW	 0.7800
EX	 0.8190
EY	 0.8100
EZ	 0.8230
F	 0.6970
FB	 0.8150
FC	 0.8260
FD	 0.8400
FE	 0.7940
FF	 0.7610
FG	 0.7820
FH	 0.7860
FI	 0.7820
FJ	 0.7010
FK	 0.7430
FL	 0.8250
FM	 0.8360
FN	 0.8260
FO	 0.8210
FP	 0.8290
FQ	 0.8440
FR	 0.8340
FS	 0.8300
FT	 0.8100
FU	 0.7820
FV	 0.7420
FW	 0.7860
FX	 0.8160
FY	 0.8260
FZ	 0.8140
G	 0.8630
GB	 0.8100
GC	 0.7990
GD	 0.8280
GE	 0.8020
GF	 0.8330
GG	 0.8210
GH	 0.8040
GI	 0.7910











































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Chain	Atom inclusion
GJ	0.7640
GK	0.7790
GL	0.8150
GM	0.8140
GN	0.8110
GO	0.7960
GP	0.8100
GQ	0.8290
GR	0.8190
GS	0.8180
GT	0.8090
GU	0.7930
GV	0.7500
GW	0.7680
GX	0.8060
GY	0.8070
GZ	0.8160
H	0.7680
HA	0.8310
HB	0.8230
HC	0.8320
HD	0.8560
HE	0.8510
HF	0.8360
HG	0.8270
HH	0.8260
HI	0.8310
HJ	0.7920
HK	0.8000
HL	0.8170
HM	0.8170
HN	0.8150
HO	0.8220
HP	0.8380
HQ	0.8400
HR	0.8300
HS	0.8290
HT	0.8250
HU	0.8070
HV	0.7900
HW	0.7950
HX	0.8170











































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Chain	Atom inclusion
HY	 0.8180
HZ	 0.8260
I	 0.8460
IA	 0.8320
IB	 0.8510
IC	 0.8520
ID	 0.8370
IE	 0.8280
IF	 0.8350
IG	 0.8100
IH	 0.7930
II	 0.8030
IJ	 0.8120
IK	 0.8200
IL	 0.8270
IM	 0.8240
IN	 0.8490
IO	 0.8430
IP	 0.8320
IQ	 0.8290
IR	 0.8240
IS	 0.8130
IT	 0.7990
IU	 0.8010
IV	 0.8140
IW	 0.8320
IX	 0.8330
IY	 0.8230
J	 0.7520
JB	 0.8300
JC	 0.8230
JD	 0.8440
JE	 0.8220
JF	 0.8200
JG	 0.8090
JH	 0.8200
JI	 0.8050
JJ	 0.8040
JK	 0.7980
JL	 0.8270
JM	 0.8190
JN	 0.8210











































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Chain	Atom inclusion
JO	 0.8270
JP	 0.8450
JQ	 0.8140
JR	 0.8240
JS	 0.8020
JT	 0.8190
JU	 0.8070
JV	 0.8210
JW	 0.8100
JX	 0.8220
JY	 0.8120
JZ	 0.8300
K	 0.3680
KB	 0.8580
KC	 0.8580
KD	 0.8720
KE	 0.8620
KF	 0.8620
KG	 0.8610
KH	 0.8720
KI	 0.8680
KJ	 0.8620
KK	 0.8580
KL	 0.8440
KM	 0.8430
KN	 0.8460
KO	 0.8560
KP	 0.8700
KQ	 0.8600
KR	 0.8550
KS	 0.8620
KT	 0.8450
KU	 0.8500
KV	 0.8450
KW	 0.8490
KX	 0.8380
KY	 0.8550
KZ	 0.8550
L	 0.6650
LB	 0.8310
LC	 0.8720
LD	 0.8610

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Chain	Atom inclusion
LE	 0.8580
LF	 0.8570
LG	 0.8760
LH	 0.8640
LI	 0.8580
LJ	 0.8710
LK	 0.8830
LL	 0.8580
LM	 0.8450
LN	 0.8590
LO	 0.8620
LP	 0.8720
LQ	 0.8650
LR	 0.8680
LS	 0.8740
LT	 0.8610
LU	 0.8640
LV	 0.8640
LW	 0.8730
LX	 0.8550
LY	 0.8460
LZ	 0.8560
M	 0.8240
MA	 0.8770
MC	 0.8830
MD	 0.8700
ME	 0.8730
MF	 0.8660
MG	 0.8850
MH	 0.8750
MI	 0.8760
MJ	 0.8790
MK	 0.8940
ML	 0.8790
MM	 0.8700
MN	 0.8800
MO	 0.8860
MP	 0.8820
MQ	 0.8800
MR	 0.8840
MS	 0.8870
MT	 0.8810











































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Chain	Atom inclusion
MU	0.8730
MV	0.8910
MW	0.8800
MX	0.8760
MY	0.8610
MZ	0.8720
N	0.6420
NA	0.8000
NB	0.8100
NC	0.7980
ND	0.8120
NE	0.7940
NF	0.8040
NG	0.8000
NH	0.7820
NI	0.7770
NJ	0.7850
NK	0.7660
NL	0.7960
NM	0.7870
NN	0.7990
NO	0.7930
NP	0.8010
NQ	0.7900
NR	0.7800
NS	0.7640
NT	0.7690
NU	0.7680
NV	0.7800
NW	0.7850
NX	0.8060
NZ	0.7950
O	0.5270
OA	0.8130
OB	0.8210
OC	0.8210
OD	0.8150
OE	0.8150
OF	0.8070
OG	0.8010
OH	0.7700
OI	0.7540

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Chain	Atom inclusion
OJ	 0.7780
OK	 0.7760
OL	 0.8030
OM	 0.8060
ON	 0.8360
OO	 0.8330
OP	 0.8260
OQ	 0.8120
OR	 0.8150
OS	 0.7990
OT	 0.7780
OU	 0.7670
OV	 0.7730
OW	 0.7810
OX	 0.8140
OY	 0.8100
P	 0.6890
PA	 0.7870
PB	 0.8060
PC	 0.8150
PD	 0.8020
PE	 0.7950
PF	 0.7940
PG	 0.7690
PH	 0.7440
PI	 0.7220
PJ	 0.7400
PK	 0.7700
PL	 0.7850
PM	 0.7920
PN	 0.8080
PO	 0.8080
PP	 0.8010
PQ	 0.7990
PR	 0.8040
PS	 0.7940
PT	 0.7630
PU	 0.7270
PV	 0.7460
PW	 0.7640
PX	 0.7760
PY	 0.7890

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Chain	Atom inclusion
Q	0.6250
QA	0.7740
QB	0.7950
QC	0.7930
QD	0.7900
QE	0.7670
QF	0.8010
QG	0.7900
QH	0.7560
QI	0.7080
QJ	0.7370
QK	0.7490
QL	0.7710
QM	0.7770
QN	0.7990
QO	0.7980
QP	0.7890
QQ	0.7900
QR	0.8180
QS	0.7940
QT	0.7740
QU	0.7220
QV	0.7300
QW	0.7490
QX	0.7770
QY	0.7730
R	0.6940
RA	0.7640
RB	0.7740
RC	0.7680
RD	0.7630
RE	0.7650
RF	0.7700
RG	0.7610
RH	0.7450
RI	0.7020
RJ	0.6980
RK	0.7340
RL	0.7540
RM	0.7650
RN	0.7770
RO	0.7710











































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Chain	Atom inclusion
RP	0.7560
RQ	0.7740
RR	0.7940
RS	0.7880
RT	0.7640
RU	0.7100
RV	0.6970
RW	0.7070
RX	0.7540
RY	0.7650
S	0.6420
SB	0.7640
SC	0.7540
SD	0.7670
SE	0.7560
SF	0.7720
SG	0.7410
SH	0.7470
SI	0.7150
SJ	0.6880
SK	0.7060
SL	0.7260
SM	0.7290
SN	0.7510
SO	0.7610
SP	0.7460
SQ	0.7710
SR	0.7920
SS	0.7630
ST	0.7740
SU	0.7310
SV	0.6940
SW	0.7080
SX	0.7370
SY	0.7570
T	0.7900
TB	0.7750
TC	0.7550
TD	0.7640
TE	0.7820
TF	0.7830
TG	0.7850











































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Chain	Atom inclusion
TH	 0.7630
TI	 0.7420
TJ	 0.6870
TK	 0.6830
TL	 0.7230
TM	 0.7540
TN	 0.7600
TO	 0.7440
TP	 0.7410
TQ	 0.7630
TR	 0.7890
TS	 0.7740
TT	 0.7480
TU	 0.7260
TV	 0.6920
TW	 0.7010
TX	 0.7280
TY	 0.7630
TZ	 0.7860
U	 0.6820
UB	 0.8180
UC	 0.8120
UD	 0.8080
UE	 0.8040
UF	 0.8050
UG	 0.7990
UH	 0.7970
UI	 0.7760
UJ	 0.7440
UK	 0.7400
UL	 0.7790
UM	 0.7950
UN	 0.8070
UO	 0.7900
UP	 0.7900
UQ	 0.7910
UR	 0.7990
US	 0.7860
UT	 0.7790
UU	 0.7600
UV	 0.7370
UW	 0.7630

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Chain	Atom inclusion
UX	 0.7800
UY	 0.7930
UZ	 0.8230
V	 0.3930
VB	 0.8310
VC	 0.8180
VD	 0.8280
VE	 0.8350
VF	 0.8180
VG	 0.8260
VH	 0.8300
VI	 0.8140
VJ	 0.8140
VK	 0.8200
VL	 0.8330
VM	 0.8430
VN	 0.8350
VO	 0.8250
VP	 0.8320
VQ	 0.8320
VR	 0.8250
VS	 0.8170
VT	 0.8250
VU	 0.8170
VV	 0.8180
VW	 0.8170
VX	 0.8340
VY	 0.8420
VZ	 0.8400
W	 0.3910
WA	 0.8060
WB	 0.8150
WC	 0.8150
WD	 0.7960
WE	 0.8110
WF	 0.8150
WG	 0.8300
WH	 0.8020
WI	 0.8160
WJ	 0.8250
WK	 0.8200
WL	 0.8210

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Chain	Atom inclusion
WM	0.8090
WN	0.8150
WO	0.8250
WP	0.8050
WQ	0.8230
WR	0.8120
WS	0.8280
WT	0.7930
WU	0.8060
WV	0.8070
WW	0.8040
WX	0.8020
X	0.5930
XA	0.8640
XB	0.8590
XC	0.8310
XD	0.8770
XE	0.8530
XF	0.8650
XG	0.8870
XH	0.8670
XI	0.8870
XJ	0.8770
XK	0.8730
XL	0.8550
XM	0.8570
Y	0.4150
YB	0.8320
YC	0.7760
YD	0.8410
YF	0.8530
YG	0.8710
YH	0.8530
YI	0.8030
YJ	0.8700
YK	0.8510
YL	0.8360
YM	0.7920
Z	0.7030
a	0.3170
a0	0.7720
a1	0.4200











































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Chain	Atom inclusion
a2	0.4160
a3	0.3730
a4	0.4840
a5	0.6920
a6	0.7270
a7	0.5510
a8	0.5480
a9	0.4120
b	0.6280
b0	0.4920
b1	0.4490
b2	0.1780
b3	0.4360
b4	0.4610
b5	0.3970
b6	0.4650
b7	0.5420
b8	0.4420
b9	0.4910
c	0.6510
c0	0.1940
c1	0.5640
c2	0.5210
c3	0.6730
c4	0.6380
c5	0.6750
c6	0.7330
d	0.7400
d0	0.4040
d1	0.5460
d2	0.4240
d3	0.3150
d4	0.3550
d5	0.5650
d6	0.7660
d7	0.5850
d8	0.3070
d9	0.4260
e	0.5960
e0	0.3040
e1	0.4780
e2	0.5610











































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Chain	Atom inclusion
e3	 0.3010
e4	 0.1870
e5	 0.5740
e6	 0.5580
e7	 0.3920
e8	 0.4510
e9	 0.3220
f	 0.7190
f1	 0.5200
f2	 0.5120
g	 0.4930
g1	 0.4800
g2	 0.1960
g3	 0.4200
g4	 0.1990
g5	 0.3490
g6	 0.5700
h	 0.6630
h1	 0.6860
h2	 0.6390
h3	 0.6900
h4	 0.6420
i	 0.7060
i1	 0.4590
i2	 0.3890
i3	 0.3190
i4	 0.4810
i5	 0.4930
i6	 0.2530
i7	 0.2490
i8	 0.7120
i9	 0.4860
j	 0.7220
j1	 0.2130
j2	 0.2310
j3	 0.5890
j4	 0.6530
k	 0.8000
k1	 0.8580
k2	 0.9370
k3	 0.9260
k4	 0.8910











































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Chain	Atom inclusion
k5	 0.9340
k8	 0.6790
k9	 0.3900
l	 0.5450
l1	 0.8910
l2	 0.9900
l3	 0.9830
l4	 0.9890
l5	 1.0000
l6	 0.9890
l7	 0.9250
l8	 0.9970
m	 0.6980
m0	 0.4830
m1	 0.8700
m2	 0.8090
m3	 0.0000
m4	 0.9670
m5	 0.8790
m6	 0.4270
m7	 0.5200
m8	 0.4300
m9	 0.6500
n	 0.4580
n0	 0.4650
n1	 0.6220
n2	 0.8590
n3	 0.8050
n4	 0.9080
n5	 0.6080
n6	 0.8880
n7	 0.2630
n8	 0.2440
n9	 0.2400
o	 0.6860
o1	 0.8670
o2	 0.8190
o3	 0.0000
o4	 0.9870
o5	 0.8950
o6	 0.3970
o8	 0.3500

















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Chain	Atom inclusion
p	 0.7240
p0	 0.4700
p1	 0.6500
p2	 0.8330
p3	 0.8690
p4	 0.8940
p5	 0.6580
p6	 0.8910
p7	 0.2810
p8	 0.2660
p9	 0.2420
q	 0.6310
q0	 0.4690
q1	 0.8220
q2	 0.7380
q3	 0.0000
q4	 0.8980
q5	 0.7790
q6	 0.4030
q7	 0.5160
q8	 0.3880
q9	 0.6510
r	 0.6510
r0	 0.4290
r1	 0.5120
r2	 0.8120
r3	 0.6530
r4	 0.8970
r5	 0.5090
r6	 0.7810
r7	 0.2170
r8	 0.1210
r9	 0.2280
s	 0.7530
s0	 0.5000
s1	 0.8420
s2	 0.8780
s6	 0.4440
s7	 0.5350
s8	 0.4370
s9	 0.6750
t	 0.6240

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Chain	Atom inclusion
t0	 0.8400
t9	 0.6980
u	 0.5650
u0	 0.4820
u6	 0.4800
u7	 0.5170
u8	 0.5120
u9	 0.6550
v	 0.6040
v1	 0.0000
v2	 0.0000
v3	 0.0000
w	 0.4010
x	 0.7410
y	 0.5520
z	 0.8360