



MEME

Multiple Em for Motif Elicitation

For further information on how to interpret these results please access <https://meme-suite.org/meme/doc/meme.html>.

To get a copy of the MEME software please access <https://meme-suite.org>.

If you use MEME in your research, please cite the following paper:

Timothy L. Bailey and Charles Elkan, "Fitting a mixture model by expectation maximization to discover motifs in biopolymers", *Proceedings of the Second International Conference on Intelligent Systems for Molecular Biology*, pp. 28-36, AAAI Press, Menlo Park, California, 1994. [\[full text\]](#)

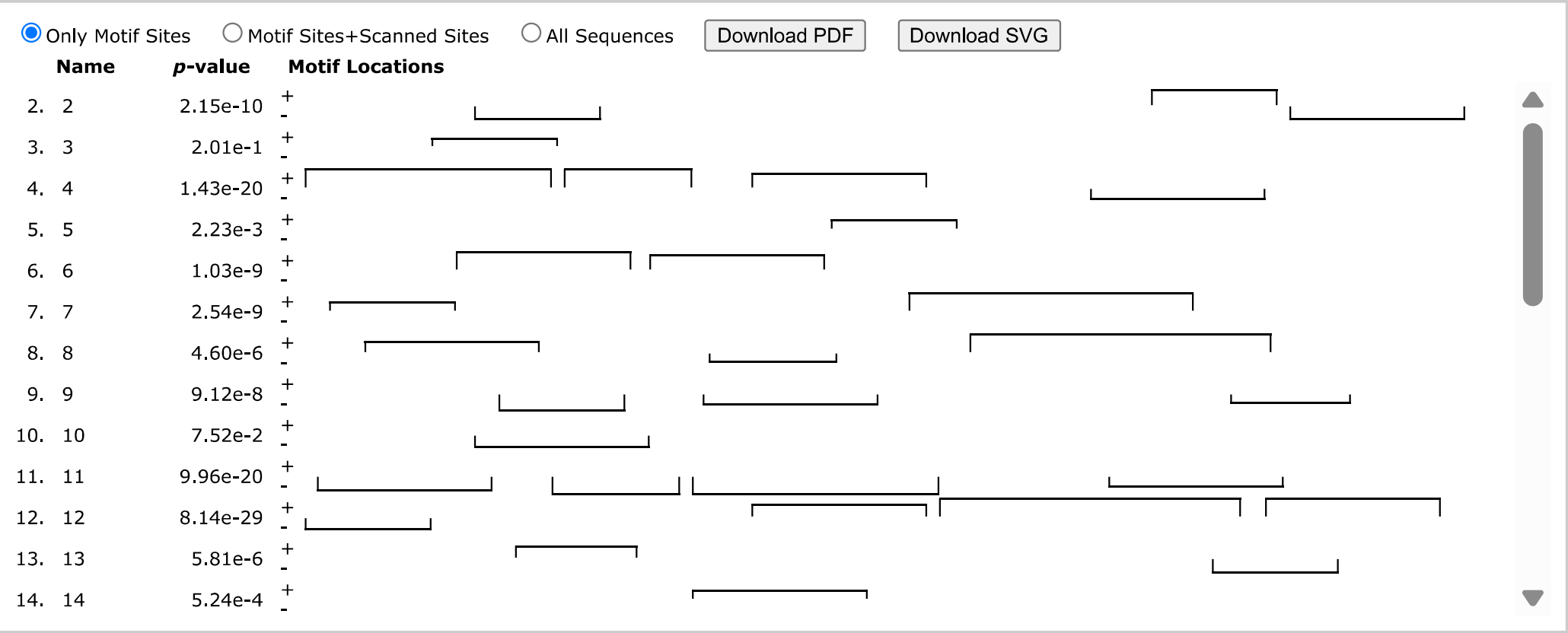
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DISCOVERED MOTIFS

	Logo	E-value	Sites	Width	More	Subr
1.		5.0e-083	63	29	↓	
2.		1.3e-042	134	21	↓	
3.		1.2e-036	11	50	↓	
4.		7.6e-033	7	50	↓	
5.		2.0e-024	6	41	↓	
6.		6.2e-021	7	43	↓	

Stopped because requested number of motifs (30) found.

MOTIF LOCATIONS



INPUTS & SETTINGS

Sequences				
Role	Source	Alphabet	Sequence Count	Total Size
Primary Sequences	SS_dmp_cpg_sequences.fasta	DNA	329	66129
Background Model				
Source: built from the (primary) sequences				

Order: 0

Name	Freq.	Bg.				Bg.	Freq.	Name
Adenine	0.242	0.242	A	~	T	0.242	0.242	Thymine
Cytosine	0.258	0.258	C	~	G	0.258	0.258	Guanine

Other Settings

Motif Site Distribution	ZOOPS: Zero or one site per sequence
Objective Function	E-value of product of p-values
Starting Point Function	E-value of product of p-values
Site Strand Handling	Sites may be on either strand
Maximum Number of Motifs	30
Motif E-value Threshold	no limit
Minimum Motif Width	6
Maximum Motif Width	50
Minimum Sites per Motif	2
Maximum Sites per Motif	329

[Show Advanced Settings](#)

MEME version
5.5.8 (Release date: Thu May 15 15:01:46 2025 -0700)

Reference
Timothy L. Bailey and Charles Elkan, "Fitting a mixture model by expectation maximization to discover motifs in biopolymers", *Proceedings of the Second International Conference on Intelligent Systems for Molecular Biology*, pp. 28-36, AAAI Press, Menlo Park, California, 1994. [\[full text\]](#)

Command line
meme SS_dmp_cpg_sequences.fasta -dna -oc . -nostatus -time 14400 -mod zoops -nmotifs 30 -minw 6 -maxw 50 -objfun classic -revcomp -markov_order 0



