



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	Submit/Download
1.		1.3e-068	96	15	↓	→
2.		2.2e-014	92	15	↓	→
3.		3.1e-028	20	15	↓	→

Stopped because requested number of motifs (3) found.

MOTIF LOCATIONS

☒ Only Motif Sites ☐ Motif Sites+Scanned Sites ☐ All Sequences [Download PDF](#) [Download SVG](#)

Name	p-value	Motif Locations
6. 3707::chr2:1654950-1661929	1.66e-2	
33. 34715::chr21:36256180-36261749	3.41e-3	



Role	Source	Alphabet	Sequence Count	Total Size
Primary Sequences	./seqs-centered	DNA	958	95800

Background Model

Source: the file './background'

Order: 2 (only order-0 shown)

Name	Freq.	Bg.				Bg.	Freq.	Name
Adenine	0.258	0.267	A	~	T	0.267	0.258	Thymine
Cytosine	0.242	0.233	C	~	G	0.233	0.242	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	3
Motif E-value Threshold	no limit
Minimum Motif Width	6
Maximum Motif Width	15
Minimum Sites per Motif	2
Maximum Sites per Motif	958

[Show Advanced Settings](#)

MEME version

5.5.1 (Release date: Sun Jan 29 10:33:12 2023 -0800)

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 ./seqs-centered -oc meme_out -mod zoops -nmotifs 3 -minw 6 -maxw 15 -bfile ./background -dna -searchsize 100000 -time 2919 -revcomp -nostatus
```

