



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

1.

E-value: 1.6e-121

Site Count: 63

Width: 15



Standard

Reverse Complement

Log Likelihood Ratio: 935

Information Content: 19.8

Relative Entropy: 21.4

Bayes Threshold: 12.343

Output of sites suppressed because there were more than 1000 (primary) sequences.

2.



E-value: 1.4e-062 **Site Count:** 35 **Width:** 15



Log Likelihood Ratio: 586 **Information Content:** 24.4 **Relative Entropy:** 24.2 **Bayes Threshold:** 12.2835

Output of sites suppressed because there were more than 1000 (primary) sequences.

3.

E-value: 6.4e-068 **Site Count:** 79 **Width:** 15



Log Likelihood Ratio: 967 **Information Content:** 18.1 **Relative Entropy:** 17.7 **Bayes Threshold:** 11.219

Output of sites suppressed because there were more than 1000 (primary) sequences.

MOTIF LOCATIONS

Output of sites suppressed because there were more than 1000 (primary) sequences.

INPUTS & SETTINGS

Sequences

Role	Source	Alphabet	Sequence Count	Total Size
Primary Sequences	./seqs-centered	DNA	1148	114800

Background Model

Source: the file './background'

Order: 2 (only order-0 shown)

Name	Freq.	Bg.				Bg.	Freq.	Name
Adenine	0.219	0.228	A	~	T	0.228	0.219	Thymine
Cytosine	0.281	0.272	C	~	G	0.272	0.281	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	1148

[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
```

