



# MEME

## Multiple Em for Motif Elicitation

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

To get a copy of the MEME software please access <http://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. [\[pdf\]](#)

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[RESULTS IN XML FORMAT](#)



## DISCOVERED MOTIFS

	Logo	E-value	Sites	Width	More	Submit/Download
1.		3.6e-090	53	10	<a href="#">↓</a>	<a href="#">...→</a>
2.		2.1e-050	35	10	<a href="#">↓</a>	<a href="#">...→</a>
3.		6.8e-006	13	10	<a href="#">↓</a>	<a href="#">...→</a>
4.		3.7e-006	15	10	<a href="#">↓</a>	<a href="#">...→</a>
5.		2.8e-004	7	10	<a href="#">↓</a>	<a href="#">...→</a>
6.		5.8e-002	11	8	<a href="#">↓</a>	<a href="#">...→</a>
7.		3.3e-002	14	10	<a href="#">↓</a>	<a href="#">...→</a>
8.		8.0e+000	8	10	<a href="#">↓</a>	<a href="#">...→</a>
9.		1.3e+002	6	10	<a href="#">↓</a>	<a href="#">...→</a>
10.		1.8e+002	2	10	<a href="#">↓</a>	<a href="#">...→</a>

11.		2.5e+002	9	8		
12.		4.7e+002	5	10		
13.		1.5e+003	2	10		
14.		1.3e+003	2	9		
15.		1.8e+003	2	9		
16.		2.7e+003	2	10		
17.		4.4e+003	3	10		
18.		5.3e+003	5	7		
19.		5.7e+003	5	7		
20.		6.0e+003	2	6		

Stopped because requested number of motifs (20) found.

## MOTIF LOCATIONS









































☒ Only Motif Sites
 ☐ Motif Sites+Scanned Sites
 ☐ All Sequences



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Name	p-value	Motif Locations
1. deltaSHAPE_rep1_ex_vivo_0	9.24e-1	
6. deltaSHAPE_rep1_ex_vivo_5	6.01e-1	
7. deltaSHAPE_rep1_ex_vivo_6	4.84e-1	 
8. deltaSHAPE_rep1_ex_vivo_7	1.47e-2	
9. deltaSHAPE_rep1_ex_vivo_8	4.57e-3	
10. deltaSHAPE_rep1_ex_vivo_9	1.27e-5	 
11. deltaSHAPE_rep1_ex_vivo_10	7.38e-4	 
12. deltaSHAPE_rep1_ex_vivo_11	5.80e-2	
14. deltaSHAPE_rep1_ex_vivo_13	2.09e-1	
16. deltaSHAPE_rep1_ex_vivo_15	1.47e-2	 
20. deltaSHAPE_rep1_ex_vivo_19	4.67e-3	
23. deltaSHAPE_rep1_ex_vivo_22	1.17e-2	
25. deltaSHAPE_rep1_ex_vivo_24	1.29e-5	 
26. deltaSHAPE_rep1_ex_vivo_25	1.52e-2	 
27. deltaSHAPE_rep1_ex_vivo_26	4.27e-2	 
28. deltaSHAPE_rep1_ex_vivo_27	5.90e-3	
29. deltaSHAPE_rep1_ex_vivo_28	7.66e-1	
30. deltaSHAPE_rep1_ex_vivo_29	3.24e-2	 
31. deltaSHAPE_rep1_ex_vivo_30	1.11e-1	
32. deltaSHAPE_rep1_ex_vivo_31	8.89e-3	
33. deltaSHAPE_rep1_ex_vivo_32	8.89e-3	 
34. deltaSHAPE_rep1_ex_vivo_33	2.96e-2	
35. deltaSHAPE_rep1_ex_vivo_34	3.55e-2	 
36. deltaSHAPE_rep1_ex_vivo_35	7.75e-1	 
37. deltaSHAPE_rep1_ex_vivo_36	8.72e-2	
38. deltaSHAPE_rep1_ex_vivo_37	6.14e-3	 
39. deltaSHAPE_rep1_ex_vivo_38	2.68e-3	   

## INPUTS & SETTINGS

### Sequences

Total

Role	Source	Alphabet	Sequence Count	Size
Primary Sequences	MEME_deltaSHAPE_rep_1_ex_vivo_30_mers/seqs-centered	RNA	162	5184

## Background Model

**Source:** the file 'MEME\_deltaSHAPE\_rep\_1\_ex\_vivo\_30\_mers/background'

**Order:** 1 (only order-0 shown)

	Name	Freq.	Bg.
<b>A</b>	Adenine	0.246	0.246
<b>C</b>	Cytosine	0.189	0.189
<b>G</b>	Guanine	0.176	0.176
<b>U</b>	Uracil	0.389	0.389

## Other Settings

<b>Motif Site Distribution</b>	ANR: Any number of sites per sequence
<b>Objective Function</b>	E-value of product of p-values
<b>Starting Point Function</b>	E-value of product of p-values
<b>Site Strand Handling</b>	This alphabet only has one strand
<b>Maximum Number of Motifs</b>	20
<b>Motif E-value Threshold</b>	no limit
<b>Minimum Motif Width</b>	4
<b>Maximum Motif Width</b>	10
<b>Minimum Sites per Motif</b>	2
<b>Maximum Sites per Motif</b>	810

[Show Advanced Settings](#)

### MEME version

5.1.0 (Release date: Fri Oct 11 15:53:28 2019 -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.

### Command line

```
meme MEME_deltaSHAPE_rep_1_ex_vivo_30_mers/seqs-centered -oc MEME_deltaSHAPE_rep_1_ex_vivo_30_mers/meme_out -mod anr -nmotifs 20 -minw 4 -maxw 10 -bfile MEME_deltaSHAPE_rep_1_ex_vivo_30_mers/background -rna -p 8 -nostatus
```

