



# 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.		3.2e-058	82	10	<a href="#">↓</a>	<a href="#">...→</a>
2.		1.0e-013	44	10	<a href="#">↓</a>	<a href="#">...→</a>
3.		1.8e-009	26	10	<a href="#">↓</a>	<a href="#">...→</a>
4.		1.6e-010	31	10	<a href="#">↓</a>	<a href="#">...→</a>
5.		1.5e-010	25	10	<a href="#">↓</a>	<a href="#">...→</a>
6.		5.4e-007	13	10	<a href="#">↓</a>	<a href="#">...→</a>
7.		4.3e-004	19	10	<a href="#">↓</a>	<a href="#">...→</a>
8.		3.8e-004	10	10	<a href="#">↓</a>	<a href="#">...→</a>
9.		5.3e-004	17	10	<a href="#">↓</a>	<a href="#">...→</a>
10.		1.2e-003	21	8	<a href="#">↓</a>	<a href="#">...→</a>

11.		1.5e-002	26	8		
12.		8.3e-006	41	10		
13.		3.3e-003	12	10		
14.		1.8e-006	26	10		
15.		9.6e-002	12	8		
16.		1.3e-001	12	8		
17.		4.4e-001	24	10		
18.		2.4e-003	16	10		
19.		5.3e+000	16	10		
20.		8.0e-004	17	10		

Stopped because requested number of motifs (20) found.

## MOTIF LOCATIONS







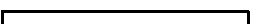




















☒ Only Motif Sites
 ☐ Motif Sites+Scanned Sites
 ☐ All Sequences

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Name	p-value	Motif Locations
6. diffBUM_HMM_ex_vivo_5	3.54e-1	
8. diffBUM_HMM_ex_vivo_7	6.94e-2	
10. diffBUM_HMM_ex_vivo_9	1.70e-1	
14. diffBUM_HMM_ex_vivo_13	1.15e-1	
18. diffBUM_HMM_ex_vivo_17	4.74e-2	
19. diffBUM_HMM_ex_vivo_18	1.48e-1	
20. diffBUM_HMM_ex_vivo_19	6.30e-2	
29. diffBUM_HMM_ex_vivo_28	1.82e-2	
30. diffBUM_HMM_ex_vivo_29	1.35e-2	
31. diffBUM_HMM_ex_vivo_30	3.82e-4	
32. diffBUM_HMM_ex_vivo_31	1.18e-3	
35. diffBUM_HMM_ex_vivo_34	2.24e-2	
36. diffBUM_HMM_ex_vivo_35	2.24e-2	
37. diffBUM_HMM_ex_vivo_36	1.76e-3	
38. diffBUM_HMM_ex_vivo_37	3.88e-3	
49. diffBUM_HMM_ex_vivo_48	1.35e-2	
52. diffBUM_HMM_ex_vivo_51	5.02e-2	
53. diffBUM_HMM_ex_vivo_52	4.04e-3	
54. diffBUM_HMM_ex_vivo_53	2.12e-4	
56. diffBUM_HMM_ex_vivo_55	2.08e-2	
57. diffBUM_HMM_ex_vivo_56	5.08e-2	
58. diffBUM_HMM_ex_vivo_57	2.04e-2	
66. diffBUM_HMM_ex_vivo_65	2.05e-2	
67. diffBUM_HMM_ex_vivo_66	1.31e-2	
68. diffBUM_HMM_ex_vivo_67	1.87e-2	
70. diffBUM_HMM_ex_vivo_69	3.70e-1	
71. diffBUM_HMM_ex_vivo_70	1.25e-2	

## INPUTS & SETTINGS

### Sequences

Alphabet

Sequence

Total

Role	Source		Count	Size
Primary Sequences	MEME_diffBUM_HMM_ex_vivo_30_mers/seqs-centered	RNA	849	27168

## Background Model

**Source:** the file 'MEME\_diffBUM\_HMM\_ex\_vivo\_30\_mers/background'

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

	Name	Freq.	Bg.
<b>A</b>	Adenine	0.274	0.274
<b>C</b>	Cytosine	0.2	0.2
<b>G</b>	Guanine	0.196	0.196
<b>U</b>	Uracil	0.33	0.33

## 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>	1000

[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_diffBUM_HMM_ex_vivo_30_mers/seqs-centered -oc MEME_diffBUM_HMM_ex_vivo_30_mers/meme_out -mod anr -nmotifs 20 -minw 4 -maxw 10 -bfile MEME_diffBUM_HMM_ex_vivo_30_mers/background -rna -p 8 -nostatus
```

