



# DREME

## Discriminative Regular Expression 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 DREME in your research please cite the following paper:

Timothy L. Bailey, "DREME: Motif discovery in transcription factor ChIP-seq data", *Bioinformatics*, 27(12):1653-1659, 2011. [\[full text\]](#)

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## DISCOVERED MOTIFS

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Motif	Logo	RC Logo	E-value	Unersased E-value	More	Submit/Download
1. ATGYWAAT			1.6e-265	1.6e-265	<a href="#">↓</a>	<a href="#">→</a>
2. ACAAWRG			7.4e-190	7.4e-190	<a href="#">↓</a>	<a href="#">→</a>
3. CAGCDGG			2.6e-176	2.6e-176	<a href="#">↓</a>	<a href="#">→</a>
4. RCATTCCW			1.9e-122	3.0e-132	<a href="#">↓</a>	<a href="#">→</a>
5. CYCCDCCC			5.6e-118	2.8e-120	<a href="#">↓</a>	<a href="#">→</a>
6. TGTWAW			1.6e-090	2.5e-153	<a href="#">↓</a>	<a href="#">→</a>
7. AAABAMA			1.2e-078	1.8e-117	<a href="#">↓</a>	<a href="#">→</a>
8. CVCAGS			9.9e-062	2.2e-107	<a href="#">↓</a>	<a href="#">→</a>
9. TRAATR			2.9e-059	8.0e-094	<a href="#">↓</a>	<a href="#">→</a>
10. CTSCAGS			1.7e-052	1.3e-066	<a href="#">↓</a>	<a href="#">→</a>

	Motif	Logo	RC Logo	E-value	Unersased E-value	More	Submit/Downloa
11.	TAATKR			3.4e-047	2.0e-075	<a href="#">↓</a>	<a href="#">...→</a>
12.	CCDCCKCC			5.8e-040	9.8e-062	<a href="#">↓</a>	<a href="#">...→</a>
13.	ATGCWGAK			1.6e-039	2.7e-052	<a href="#">↓</a>	<a href="#">...→</a>
14.	ACAAWGM			1.0e-037	1.2e-083	<a href="#">↓</a>	<a href="#">...→</a>
15.	BCTTTGAW			2.4e-031	7.9e-034	<a href="#">↓</a>	<a href="#">...→</a>
16.	RVAGGAA			1.6e-034	4.7e-093	<a href="#">↓</a>	<a href="#">...→</a>
17.	CACGTG			7.7e-025	1.1e-025	<a href="#">↓</a>	<a href="#">...→</a>
18.	CWCMCAC			2.9e-022	2.7e-041	<a href="#">↓</a>	<a href="#">...→</a>
19.	RGAGAVA			1.3e-019	2.2e-048	<a href="#">↓</a>	<a href="#">...→</a>
20.	AGRKGCG			7.4e-022	1.3e-049	<a href="#">↓</a>	<a href="#">...→</a>
21.	TTTWAAW			2.4e-016	3.8e-053	<a href="#">↓</a>	<a href="#">...→</a>
22.	CRYTTCC			3.7e-016	3.8e-040	<a href="#">↓</a>	<a href="#">...→</a>
23.	TTAAGTR			1.8e-015	9.1e-027	<a href="#">↓</a>	<a href="#">...→</a>
24.	CACTGDG			3.4e-014	1.6e-023	<a href="#">↓</a>	<a href="#">...→</a>
25.	CTSCCKCC			6.7e-015	1.5e-034	<a href="#">↓</a>	<a href="#">...→</a>
26.	RTAAACA			1.9e-013	8.8e-058	<a href="#">↓</a>	<a href="#">...→</a>

	Motif	Logo	RC Logo	E-value	Unersased E-value	More	Submit/Downloa
27.	RAATTCCW			2.2e-013	4.7e-031	<a href="#">↓</a>	<a href="#">...→</a>
28.	AAASAATG			4.5e-012	9.0e-037	<a href="#">↓</a>	<a href="#">...→</a>
29.	TCTSTR			9.6e-011	1.6e-028	<a href="#">↓</a>	<a href="#">...→</a>
30.	GTGATTA			7.1e-009	1.0e-019	<a href="#">↓</a>	<a href="#">...→</a>
31.	CRCCGCS			1.1e-008	2.7e-023	<a href="#">↓</a>	<a href="#">...→</a>
32.	CCTGGMAG			4.5e-008	1.5e-011	<a href="#">↓</a>	<a href="#">...→</a>
33.	GGAGCCGS			7.0e-008	5.7e-011	<a href="#">↓</a>	<a href="#">...→</a>
34.	TATGCWAA			1.2e-007	5.3e-077	<a href="#">↓</a>	<a href="#">...→</a>
35.	GAAAKGCA			1.3e-006	1.2e-025	<a href="#">↓</a>	<a href="#">...→</a>
36.	GGCRGGGA			2.5e-006	2.7e-020	<a href="#">↓</a>	<a href="#">...→</a>
37.	GTTTCY			3.9e-006	8.1e-038	<a href="#">↓</a>	<a href="#">...→</a>
38.	ATGTAKAT			7.8e-006	8.2e-014	<a href="#">↓</a>	<a href="#">...→</a>
39.	TGACGTCA			1.1e-005	8.5e-008	<a href="#">↓</a>	<a href="#">...→</a>
40.	CAGCRGC			1.7e-005	2.1e-019	<a href="#">↓</a>	<a href="#">...→</a>
41.	CACCASG			4.1e-005	3.2e-009	<a href="#">↓</a>	<a href="#">...→</a>
42.	CCCTYCCC			1.3e-004	3.7e-055	<a href="#">↓</a>	<a href="#">...→</a>

	Motif	Logo	RC Logo	E-value	Unersased E-value	More	Submit/Downloa
43.	CCGGGW			6.3e-004	2.0e-009	<a href="#">↓</a>	<a href="#">...→</a>
44.	AGCMATCA			5.5e-004	7.1e-006	<a href="#">↓</a>	<a href="#">...→</a>
45.	CVGCCTC			9.9e-004	3.0e-031	<a href="#">↓</a>	<a href="#">...→</a>
46.	AAGTAYTT			1.4e-003	1.6e-011	<a href="#">↓</a>	<a href="#">...→</a>
47.	CAGTAGGD			2.4e-003	7.2e-004	<a href="#">↓</a>	<a href="#">...→</a>
48.	AAAGRGAA			7.1e-003	1.5e-015	<a href="#">↓</a>	<a href="#">...→</a>
49.	AGCASTTA			7.4e-003	2.8e-010	<a href="#">↓</a>	<a href="#">...→</a>
50.	AGGATTAG			7.8e-003	5.4e-002	<a href="#">↓</a>	<a href="#">...→</a>
51.	AGRTAATG			1.7e-002	8.1e-007	<a href="#">↓</a>	<a href="#">...→</a>
52.	AASAATGT			1.8e-002	9.6e-018	<a href="#">↓</a>	<a href="#">...→</a>
53.	TAATAATA			3.8e-002	2.8e-004	<a href="#">↓</a>	<a href="#">...→</a>
54.	ATTAKAAT			3.4e-002	5.3e-005	<a href="#">↓</a>	<a href="#">...→</a>

## INPUTS & SETTINGS

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### Sequences

<b>Source</b>	<b>Alphabet</b>	<b>Sequence Count</b>
Nanog-idr-merged-dreme.fasta	DNA	11035

### Control Sequences

<b>Source</b>	<b>Sequence Count</b>
Shuffled Sequences	11035

## Background

Name	Bg.				Bg.	Name
Adenine	0.243	A	~	T	0.243	Thymine
Cytosine	0.256	C	~	G	0.258	Guanine

## Other Settings

<b>Strand Handling</b>	Both the given and reverse complement strands are processed
<b># REs to Generalize</b>	100
<b>Shuffle Seed</b>	1
<b>E-value Threshold</b>	0.05
<b>Max Motif Count</b>	No maximum motif count.
<b>Max Run Time</b>	18000 seconds.

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### DREME version

5.0.5 (Release date: Mon Mar 18 20:12:19 2019 -0700)

### Reference

Timothy L. Bailey, "DREME: Motif discovery in transcription factor ChIP-seq data", *Bioinformatics*, **27**(12):1653-1659, 2011. [\[full text\]](#)

### Command line

```
dreme -verbosity 1 -oc . -dna -p Nanog-idr-merged-dreme.fasta -t 18000 -e 0.05
```

