



For further information on how to interpret these results please access <https://meme-suite.org/meme/doc/spamo-output-format.html>.

To get a copy of the MEME software please access <https://meme-suite.org>.


If you use SpaMo in your research, please cite the following paper:

Tom Whittington, Martin C. Frith, James Johnson and Timothy L. Bailey "Inferring transcription factor complexes from ChIP-seq data", *Nucleic Acids Res.* **39**(15):e98, 2011. [\[full text\]](#)

[PRIMARY MOTIFS](#) | [SEQUENCE DATABASE](#) | [SECONDARY MOTIF DATABASES](#) | [SPACING ANALYSIS](#) | [INPUTS AND SETTINGS](#) | [PROGRAM INFORMATION](#) | [RESULTS IN TSV FORMAT](#) | [CONTRIBUTING SEQUENCE IDS](#) [\[DOWNLOAD PLAIN\]](#) [\[DOWNLOAD BED\]](#)

## PRIMARY MOTIFS

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Database	Name	Preview	Significant Secondaries	List																		
meme.xml	GCTGGGATTACAGGC (MEME-3)		8	<a href="#">GGGHGGCSGMGSGG (MEME-2), 1-</a> <a href="#">CCACCCCCACCTCC (STREME-1), 2-</a>																		
Alphabet																						
Background source: the file './background'																						
<table><tr><th>Name</th><th>Bg.</th><th></th><th></th><th>Bg.</th><th>Name</th></tr><tr><td>Adenine</td><td>0.2666</td><td>A</td><td>~</td><td>T</td><td>Thymine</td></tr><tr><td>Cytosine</td><td>0.2334</td><td>C</td><td>~</td><td>G</td><td>Guanine</td></tr></table>					Name	Bg.			Bg.	Name	Adenine	0.2666	A	~	T	Thymine	Cytosine	0.2334	C	~	G	Guanine
Name	Bg.			Bg.	Name																	
Adenine	0.2666	A	~	T	Thymine																	
Cytosine	0.2334	C	~	G	Guanine																	

## SEQUENCE DATABASE

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Name	Last Modified	Contained	Too Short	Too Masked	No Primary	Too Similar	Used
Galaxy8-hyperacetylation_fasta	Thu Mar 2 08:04:26 2023	958	0	0	388	321	249

## SECONDARY MOTIF DATABASES

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## SETTINGS

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**Best** all / both  
**Orientation:** palindromic

Primary Motif Logo



Secondary Motif Logo



Inferred Secondary Motif Logo


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Alignment Logo

Up+

Up-



Dn+

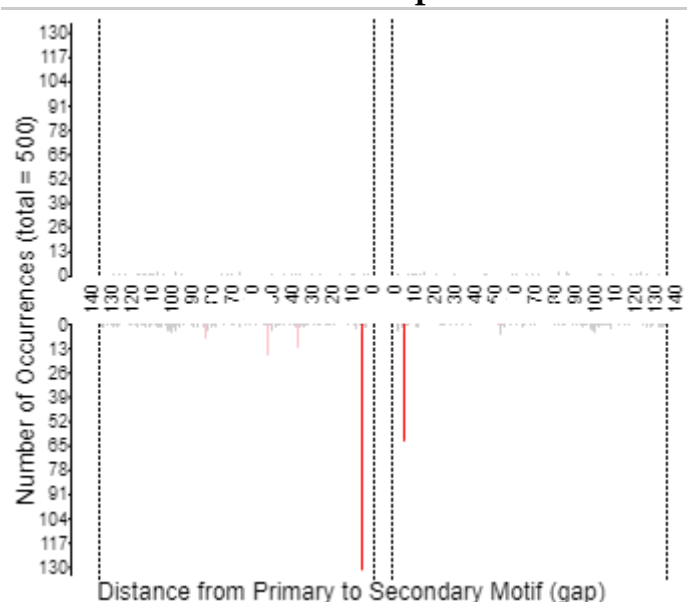
Dn-


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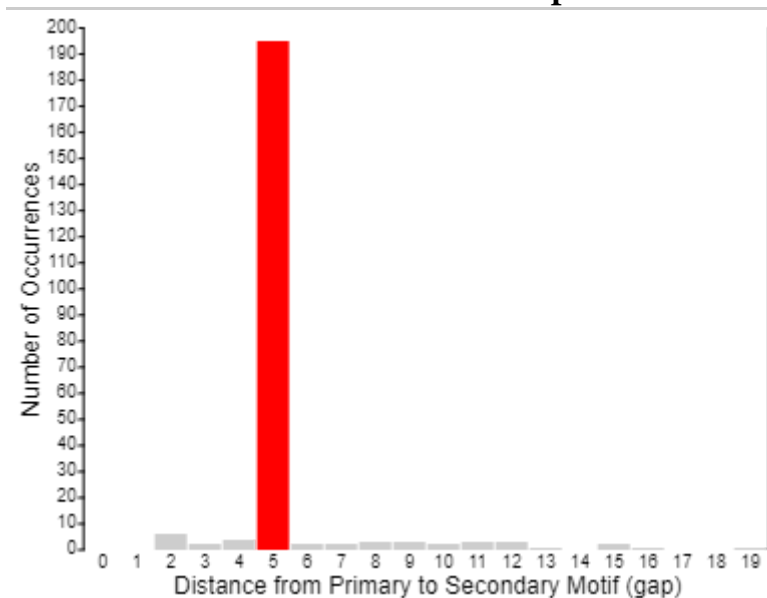
## Spacings

Gap	Orientation	p-value
5	all	5.85e-274
5	up-	3.57e-238
5	up+/up-	9.93e-199
5	up-/dn+	9.93e-199
5	dn-	1.90e-92
5	up+/dn-	7.95e-74
5	dn+/dn-	7.95e-74
52	up-	2.20e-16
52	up+/up-	1.25e-11
52	up-/dn+	1.25e-11
37	up-	2.00e-11
52	all	6.04e-8
37	up+/up-	7.16e-8
37	up-/dn+	7.16e-8
83	up-	5.36e-6

## Overview Graph



## Selected Orientation Graph



Highlight: ☒ Selected ☒ All

## Contributing Sequence IDs (195)

10020::chr4:156415650-15641839  
 10097::chr4:169685400-16969259  
 10103::chr4:169771180-16977319  
 1019::chr1:39551200-39554149  
 10222::chr4:186452830-18645964  
 10511::chr5:36689100-36693599  
 10543::chr5:39420680-39425729  
 10554::chr5:40913950-40916279  
 10641::chr5:54827750-54832679  
 10645::chr5:54886300-54890379  
 10860::chr5:76085030-76088849  
 10943::chr5:81629380-81632299  
 10978::chr5:90414500-90422099  
 11411::chr5:139559130-13956194  
 11483::chr5:141695980-14170844  
 11853::chr5:159590900-15959472  
 11997::chr5:172442450-17244629  
 1201::chr1:46267830-46271029  
 12239::chr6:4646700-4649179

Plain Format ▼

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## Secondaries

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[Download as EPS](#)

**Filter**

- ☐ Top 10
- ☐ ID matches .\*
- ☐ Name matches .\*
- ☐ Cluster matches .\*
- ☐ E-value  $\leq$  1
- ☐ Gaps (ranges allowed) 0-10

**Sort**

Sort by E-value ▼

Update

Lock	ID	Name	Cluster	E-value	Best Gap	Best Orientation	Spacings
<input type="checkbox"/>	GGGHGGCSGMGGSGG	MEME-2	GGGHGGCSGMGGSGG	4.68e-273	5	all / both palindromic	
<input type="checkbox"/>	1-CCACCCCCACCTCC	STREME-1	GGGHGGCSGMGGSGG	1.24e-178	6	upstream / same strand	
<input type="checkbox"/>	2-ACTTTG	STREME-2	2-ACTTTG	3.29e-169	0	upstream / opposite strand	
<input type="checkbox"/>	5-GATGTCAG	STREME-5	5-GATGTCAG	2.88e-65	31	upstream / opposite strand	
<input type="checkbox"/>	4-AAATGCAAAA	STREME-4	4-AAATGCAAAA	5.37e-29	23	downstream / opposite strand	
<input type="checkbox"/>	TTTTTCTTTTTTTT	MEME-1	TTTTTCTTTTTTTT	4.89e-26	85	upstream / same strand	
<input type="checkbox"/>	3-TAATCCCAGCA	STREME-3	3-TAATCCCAGCA	6.60e-17	126	upstream / opposite strand	
<input type="checkbox"/>	GCTGGGATTACAGGC	MEME-3	3-TAATCCCAGCA	1.05e-16	121	upstream / same strand	

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

**Reference**

Tom Whittington, Martin C. Frith, James Johnson and Timothy L. Bailey "Inferring transcription factor complexes from ChIP-seq data", *Nucleic Acids Res.* **39**(15):e98, 2011. [\[full text\]](#)

**Command line**

```
spamo -verbosity 1 -oc spamo_out_2 -bgfile ./background -keepprimary -primary GCTGGGATTACAGGC ./Galaxy8-hyperacetylation_fasta.fasta
```

Result calculation took 1 seconds

