



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>.

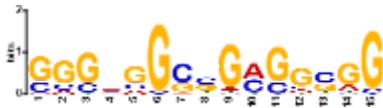
If you use SpaMo in your research, please cite the following paper:

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	GGGHGGCSGMGGSGG (MEME-2)		8	GCTGGGATTACAGGC (MEME-3) , 3-TAATCCCAGCA (STREME-3) , 5-																		
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	65	290	603

SECONDARY MOTIF DATABASES

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SETTINGS

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Best upstream / Orientation: opposite strand

Primary Motif Logo



Secondary Motif Logo



Inferred Secondary Motif Logo

[Download as EPS](#)

Alignment Logo

Up+

Up-

Dn+

Dn-

[Download as EPS](#)

Spacings

Gap	Orientation	p-value
5	up-	5.10e-237
5	up+/up-	4.14e-203
5	up-/dn+	4.14e-203
5	all	7.45e-184
101	dn-	2.37e-12
99	dn-	5.98e-11
100	dn-	1.36e-9
101	up+/dn-	3.26e-9
101	dn+/dn-	3.26e-9
98	dn-	2.79e-8
102	dn-	2.79e-8
99	up+/dn-	4.12e-8
99	dn+/dn-	4.12e-8
98	up+/dn-	4.71e-7
100	up+/dn-	4.71e-7
100	dn+/dn-	4.71e-7
5	dn-	5.06e-7

Highlight: ☒ Selected ☒ All

Contributing Sequence IDs (113)

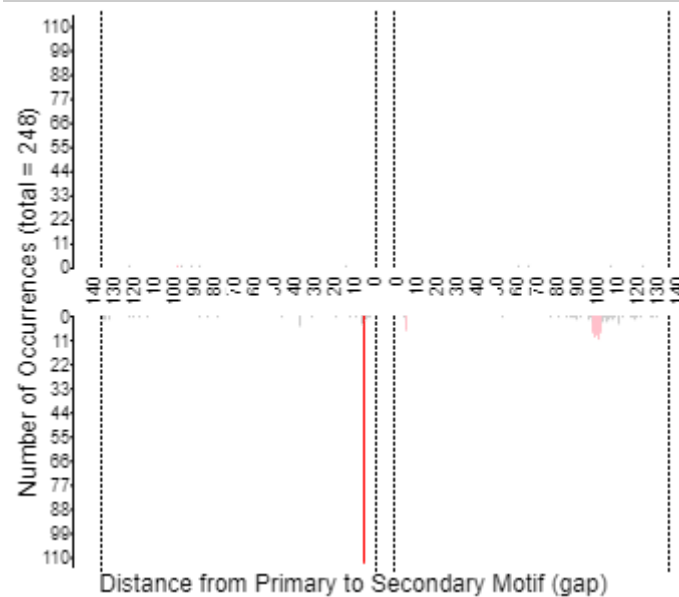
10020::chr4:156415650-15641839
 10097::chr4:169685400-16969259
 10103::chr4:169771180-16977319
 1019::chr1:39551200-39554149
 10200::chr4:185665950-18566949
 1028::chr1:39656450-39663179
 1029::chr1:39668980-39672849
 10511::chr5:36689100-36693599
 10543::chr5:39420680-39425729
 10583::chr5:43063630-43068879
 10641::chr5:54827750-54832679
 10645::chr5:54886300-54890379
 10833::chr5:72920350-72923599
 10944::chr5:81642550-81646229
 11548::chr5:142521680-14252387
 11550::chr5:142531550-14253704
 11596::chr5:147846830-14785517
 11733::chr5:151096950-15109894
 11807::chr5:156997500-15699962

Plain Format ▾

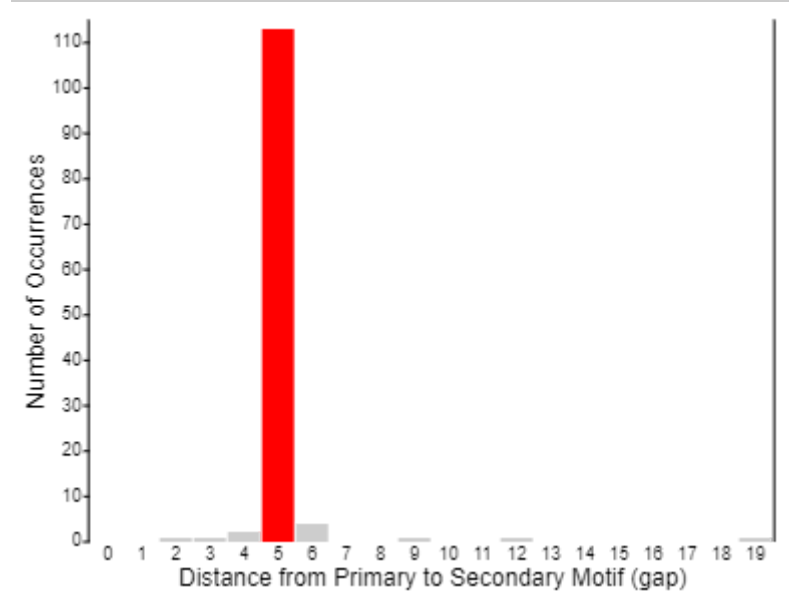
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Secondaries

Overview Graph

[Download as EPS](#)

Selected Orientation Graph

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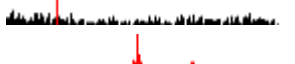

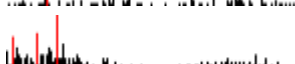

Filter

- ☐ 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"/>	GCTGGGATTACAGGC	MEME-3	GCTGGGATTACAGGC	4.08e-236	5	upstream / opposite strand	
<input type="checkbox"/>	3-TAATCCCAGCA	STREME-3	GCTGGGATTACAGGC	7.51e-219	4	upstream / same strand	
<input type="checkbox"/>	5-GATGTCAG	STREME-5	5-GATGTCAG	2.57e-42	11	downstream / same strand	
<input type="checkbox"/>	4-AAATGCAAAA	STREME-4	4-AAATGCAAAA	1.43e-33	67	downstream / same strand	
<input type="checkbox"/>	GGGHGGCSGMGGSGG	MEME-2	GGGHGGCSGMGGSGG	2.37e-32	25	upstream / same strand	
<input type="checkbox"/>	TTTTTKTTTTTTT	MEME-1	TTTTTKTTTTTTT	8.63e-29	65	downstream / opposite strand	
<input type="checkbox"/>	2-ACTTTG	STREME-2	2-ACTTTG	1.12e-23	20	downstream / same strand	
<input type="checkbox"/>	1-CCACCCCCACCTCC	STREME-1	GGGHGGCSGMGGSGG	2.09e-9	25	upstream / opposite 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_3 -bgfile ./background -keepprimary -primary GGGHGGCSGMGGS GG ./Galaxy8-hyperacetylation_fasta.fasta
```

Result calculation took 2 seconds

