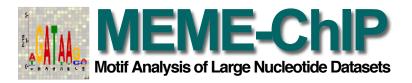
11/7/2018 MEME ChIP



For further information on how to interpret these results please access http://meme-suite.org/doc/meme-chip-output- format.html.

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

If you use MEME-ChIP in your research, please cite the following paper:

Philip Machanick and Timothy L. Bailey, "MEME-ChIP: motif analysis of large DNA datasets", Bioinformatics, 2712, 1696-1697, 2011. [full text]

MOTIFS PROGRAMS INPUT FILES PROGRAM INFORMATION **TEXT FORMAT**

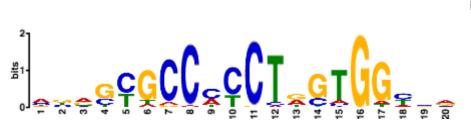
SUMMARY IN TSV FORMAT



Motifs

The significant motifs (E-value ≤ 0.05) found by the programs MEME, DREME and CentriMo; clustered by similarity and ordered by E-value.

Expand All Clusters Collapse All Clusters



Motif Found

Discovery/ E-**Enrichment value Program**

Known or Similar **Motifs**

9.5e-**MEME** 213

CTCF (MA0139.1) INSM1 (MA0155.1)

PROGRAMS

Command	Running Time	Status	Outputs
<pre>getsize memechip_out/ER4_fasta_meme_100.fa 1> \$metrics</pre>	0.02s	Success	
<pre>fasta-most -min 50 < memechip_out/ER4_fasta_meme_100.fa 1> \$metrics</pre>	0.07s	Success	
<pre>fasta-center -dna -len 100 < memechip_out/ER4_fasta_meme_100.fa 1> memechip_out/seqs-centered</pre>	0.09s	Success	• <u>seqs-centered</u>

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2010	WEWE C	111		
Command	Running Time	Status	Outputs	
fasta-shuffle-letters memechip_out/seqs-centered memechip_out/seqs-shuffled -kmer 2 -tag -dinuc -dna -seed 1	0.02s	Success	• <u>seqs-shuffled</u>	
fasta-get-markov -nostatus -nosummary - dna -m 1 memechip_out/ER4_fasta_meme_100.fa memechip_out/background	0.01s	Success	• <u>Background</u>	
meme memechip_out/seqs-centered -oc memechip_out/meme_out -mod zoops - nmotifs 3 -minw 6 -maxw 20 -bfile memechip_out/background -dna -revcomp - nostatus	14.28s	Success	MEME HTMLMEME textMEME XML	
dreme -verbosity 1 -oc memechip_out/dreme_out -png -dna -p memechip_out/seqs-centered -n memechip_out/seqs-shuffled	0.06s	Error 1		
centrimo -seqlen 566 -verbosity 1 -oc memechip_out/centrimo_out -bfile memechip_out/background memechip_out/ER4_fasta_meme_100.fa memechip_out/meme_out/meme.xml motif_databases/JASPAR/JASPAR_CORE_2016	0.72s _vertebrates.meme	<u>Warnings</u>	<u>CentriMo HTML</u>	
tomtom -verbosity 1 -oc memechip_out/meme_tomtom_out -min- overlap 5 -dist pearson -evalue -thresh 1 - no-ssc memechip_out/meme_out/meme.xml motif_databases/JASPAR/JASPAR_CORE_2016	3.18s _vertebrates.meme	Success	Tomtom HTMLTomtom TSVTomtom XML	
tomtom -verbosity 1 -text -thresh 0.1 memechip_out/combined.meme memechip_out/combined.meme 1> memechip_out/motif_alignment.txt	0.05s	Success	• <u>Motif Alignment</u>	
spamo -verbosity 1 -oc memechip_out/spamo_out_1 -bgfile memechip_out/background -keepprimary - primary ABRGYGCCMCCTRGTGGYVR memechip_out/ER4_fasta_meme_100.fa memechip_out/meme_out/meme.xml memechip_out/meme_out/meme.xml motif_databases/JASPAR/JASPAR_CORE_2016	2.52s _vertebrates.meme	Success	• <u>SpaMo HTML</u>	
fimo parse-genomic-coordverbosity 1 oc memechip_out/fimo_out_1bgfile memechip_out/backgroundmotif ABRGYGCCMCCTRGTGGYVR memechip_out/meme_out/meme.xml memechip_out/ER4_fasta_meme_100.fa	0.12s	Success	FIMO GFFFIMO HTMLFIMO TSV	

INPUT FILES

Alphabet

Background source: built from the (primary) sequences

11/7/2018 MEME ChIP

 Name
 Bg.
 Bg.
 Name

 Adenine
 0.2538
 A ~ T 0.2538
 Thymine

 Cytosine
 0.2462
 C ~ G 0.2462
 Guanine

Primary Sequences

Database Source Sequence Count

ER4_fasta_meme_100.fa 100

Motifs

Database Source Motif Count

JASPAR CORE 2016 vertebrates

motif_databases/JASPAR/JASPAR_CORE_2016_vertebrates.meme 519

MEME-ChIP version

5.0.2 (Release date: Thu Aug 30 14:26:08 2018 -0700)

Reference

Philip Machanick and Timothy L. Bailey, "MEME-ChIP: motif analysis of large DNA datasets", Bioinformatics, 2712, 1696-1697, 2011.

Command line summary

meme-chip -db motif_databases/JASPAR/JASPAR_CORE_2016_vertebrates.meme -meme-maxw 20 ER4_fasta_meme_100.fa

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