

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

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

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 27(12):1696-1697, 2011. [full text]

MOTIFS | PROGRAMS | INPUT FILES | PROGRAM INFORMATION | SUMMARY IN TSV FORMAT | MOTIFS IN MEME TEXT FORMAT

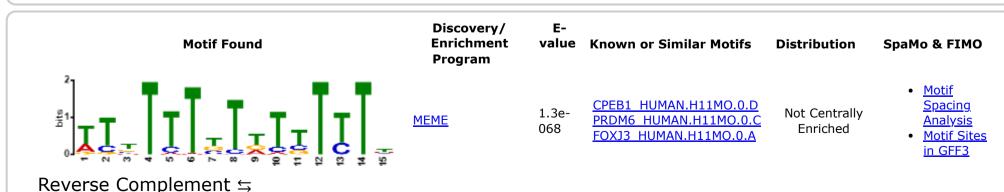
### **DESCRIPTION**

Hyperacetylated regions

## **MOTIFS**

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

Expand All Clusters Collapse All Clusters



| Motif Found  | Discovery/<br>Enrichment<br>Program | E-<br>value  | Known or Similar Motifs | Distribution              | SpaMo & FIMO   |
|--|-------------------------------------|--------------|-------------------------|---------------------------|--|
| ENDING TOUR AND THE PROPERTY OF THE PROPERTY O | <u>MEME</u>                         | 3.1e-<br>028 | PITX2 HUMAN.H11MO.0.D   | Not Centrally<br>Enriched | <ul> <li>Motif         <ul> <li>Spacing</li> <li>Analysis</li> </ul> </li> <li>Motif Sites         <ul> <li>in GFF3</li> </ul> </li> </ul> |
| Reverse Complement   |                                     |              |                         |                           |  |
|  | Discovery/<br>Enrichment<br>Program | E-<br>value  | Known or Similar Motifs | Distribution              | SpaMo & FIMO   |

# **PROGRAMS**

Reverse Complement ≒

| Command   | Running Time | Status  | Outputs  |
|---|--------------|---------|--|
| <pre>getsize ./Galaxy8-hyperacetylation_fasta.fasta 1&gt; \$metrics</pre>   | 0.05s        | Success |  |
| fasta-most -min 50 < ./Galaxy8-hyperacetylation_fasta.fasta 1> \$metrics  | 0.09s        | Success |  |
| fasta-center -dna -len 100 < ./Galaxy8-hyperacetylation_fasta.fasta 1> ./seqs-centered  | 0.13s        | Success | • <u>seqs-centered</u>   |
| <b>fasta-get-markov</b> -nostatus -nosummary -dna -m 2 ./Galaxy8-hyperacetylation_fasta.fasta ./background  | 0.04s        | Success | • <u>Background</u>  |
| <b>meme</b> ./seqs-centered -oc meme_out -mod zoops -nmotifs 3 -minw 6 -maxw 15 -bfile ./background -dna -searchsize 100000 -time 2919 -revcomp -nostatus | 17m 44.08s   | Success | <ul><li>MEME HTML</li><li>MEME text</li><li>MEME XML</li></ul> |

| Command  | Running Time | Status          | Outputs  |
|--|--------------|-----------------|--|
| <b>streme</b> verbosity 1oc streme_out -dnap ./seqs-centeredminw 6maxw 15time 5737order 2thresh 0.05totallength 4000000  | 20.31s       | Success         | <ul><li>STREME HTML</li><li>STREME text</li><li>STREME XML</li></ul>                     |
| <b>centrimo</b> -seqlen 2049 -verbosity 1 -oc centrimo_out -bfile ./background -score 5.0 -ethresh 10.0 ./Galaxy8-hyperacetylation_fasta.fasta meme_out/meme.xml streme_out/streme.xml db/motif_databases/HUMAN/HOCOMOCOv11_full_HUMAN_mono_meme_format.meme | 1.54s        | <u>Warnings</u> | <u>CentriMo HTML</u>   |
| <b>tomtom</b> -verbosity 1 -oc meme_tomtom_out -min-overlap 5 -dist pearson -evalue -thresh 1 - no-ssc meme_out/meme.xml db/motif_databases/HUMAN/HOCOMOCOv11_full_HUMAN_mono_meme_format.meme   | 4.53s        | Success         | <ul><li><u>Tomtom HTML</u></li><li><u>Tomtom TSV</u></li><li><u>Tomtom XML</u></li></ul> |
| <b>tomtom</b> -verbosity 1 -oc streme_tomtom_out -min-overlap 5 -dist pearson -evalue -thresh 1 - no-ssc streme_out/streme.xml db/motif_databases/HUMAN/HOCOMOCOv11_full_HUMAN_mono_meme_format.meme   | 2.93s        | Success         | <ul><li><u>Tomtom HTML</u></li><li><u>Tomtom TSV</u></li><li><u>Tomtom XML</u></li></ul> |
| <b>tomtom</b> -verbosity 1 -text -thresh 0.1 ./combined.meme ./combined.meme 1> ./motif_alignment.txt  | 0.04s        | Success         | • <u>Motif Alignment</u>   |
| <b>spamo</b> -verbosity 1 -oc spamo_out_1 -bgfile ./background -keepprimary -primary TTTTTKTTTTTTT ./Galaxy8-hyperacetylation_fasta.fasta meme_out/meme.xml meme_out/meme.xml streme_out/streme.xml  | 1.84s        | Success         | • <u>SpaMo HTML</u>  |
| <b>spamo</b> -verbosity 1 -oc spamo_out_2 -bgfile ./background -keepprimary -primary GCTGGGATTACAGGC ./Galaxy8-hyperacetylation_fasta.fasta meme_out/meme.xml meme_out/meme.xml streme_out/streme.xml  | 1.19s        | Success         | • <u>SpaMo HTML</u>  |
| <b>spamo</b> -verbosity 1 -oc spamo_out_3 -bgfile ./background -keepprimary -primary GGGHGGCSGMGGSGG ./Galaxy8-hyperacetylation_fasta.fasta meme_out/meme.xml meme_out/meme.xml streme_out/streme.xml  | 1.82s        | Success         | • <u>SpaMo HTML</u>  |
| <b>fimo</b> parse-genomic-coordverbosity 1oc fimo_out_1bgfile ./backgroundmotif TTTTTTKTTTTTTT meme_out/meme.xml ./Galaxy8-hyperacetylation_fasta.fasta  | 4.02s        | Success         | <ul><li>FIMO GFF</li><li>FIMO HTML</li><li>FIMO TSV</li></ul>                            |
| <b>fimo</b> parse-genomic-coordverbosity 1oc fimo_out_2bgfile ./backgroundmotif GCTGGGATTACAGGC meme_out/meme.xml ./Galaxy8-hyperacetylation_fasta.fasta   | 3.90s        | Success         | <ul><li>FIMO GFF</li><li>FIMO HTML</li><li>FIMO TSV</li></ul>                            |
| <b>fimo</b> parse-genomic-coordverbosity 1oc fimo_out_3bgfile ./backgroundmotif GGGHGGCSGMGGSGG meme_out/meme.xml ./Galaxy8-hyperacetylation_fasta.fasta   | 3.94s        | Success         | <ul><li>FIMO GFF</li><li>FIMO HTML</li><li>FIMO TSV</li></ul>                            |

## INPUT FILES

## **Alphabet**

Background source: built from the (primary) sequences

# **Primary Sequences**

Database Source Sequence Count

Galaxy8-hyperacetylation\_fasta 958

**Motifs** 

Database Source Motif Count

HOCOMOCOv11 full HUMAN mono meme format db/motif databases/HUMAN/HOCOMOCOv11 full HUMAN mono meme format.meme 769

#### **MEME-ChIP** version

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

#### Reference

Philip Machanick and Timothy L. Bailey, "MEME-ChIP: motif analysis of large DNA datasets", Bioinformatics 27(12):1696-1697, 2011. [full text]

#### **Command line summary**

meme-chip -oc . -time 240 -ccut 100 -fdesc description -dna -order 2 -minw 6 -maxw 15 -db db/motif\_databases/HUMAN/HOCOMOCOv11\_full\_HUMAN\_mono\_meme\_format.meme -meme-mod zoops -meme-nmotifs 3 -meme-searchsize 100000 -streme-pvt 0.05 -streme-totallength 4000000 -centrimo-score 5.0 -centrimo-ethresh 10.0 Galaxy8-hyperacetylation\_fasta.fasta