6/14/24, 11:17 AM STREME Results



For further information on how to interpret these results please access https://meme-suite.org/meme/doc/streme.html.

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

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

Timothy L. Bailey, "STREME: accurate and versatile sequence motif discovery", Bioinformatics, Mar. 24, 2021. [full text]

 Discovered Motifs
 Inputs & Settings
 Program Information
 Motifs in MEME Text Format
 Matching

 Sequences
 Matching Sites
 Results in XML Format

DESCRIPTION

Compared to background sequences from homer

DISCOVERED MOTIFS

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Motif Logo RC Logo P

1-CACHAGRKGGCRSTAKWGS

2-RTTGCAGTTCTM

3-AACGCAGTWTTTCHNNGG

ACGCAGTWTTTCHNNGG

LOGO
RC LOGO
RC LOGO
RC LOGO
RC LOGO
AC LOGO
AC

Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05). STREME ran for 160.66 seconds.

6/14/24, 11:17 AM STREME Results

Motif Logo RC Logo P

4-AGAGGGAGCDATW





1

Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05). STREME ran for 160.66 seconds.

INPUTS & SETTINGS

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Sequences

| Role | Source | Alphabet | Sequence Count | Total Size |
|------------------------------------|-------------------------------------|----------|-------------------|---------------|
| Positive (primary) Sequences | 150_top_insertion_30bp_flanks.fasta | DNA | 150 | 11850 |
| Negative (control) Sequences | output.bg.sequences.fasta | DNA | 50632 | 3999928 |

Background Model

Source: built from the negative (control) sequences

Order: 2 (only order-0 shown)

| Name | Freq. | Bg. | | | | Bg. | Freq. | Name |
|----------|-------|-------|---|---|---|-------|-------|---------|
| Adenine | 0.259 | 0.268 | Α | ~ | Т | 0.268 | 0.259 | Thymine |
| Cytosine | 0.241 | 0.232 | С | ~ | G | 0.232 | 0.241 | Guanine |

Other Settings

Strand Handling Both the given and reverse complement strands are processed.

Objective FunctionDifferential EnrichmentStatistical TestFisher Exact Test

Minimum Motif Width 8
Maximum Motif Width 19

Test Set 10% of the input sequences were randomly assigned to the test set.

Word Evaluation Up to 25 words of each width from 8 to 19 were evaluated to find

seeds.

Seed Refinement Up to 4 seeds of each width from 8 to 19 were further refined.

Refinement Iterations Up to 20 iterations were allowed when refining a seed.

Random Number Seed

Trimming of ControlSources as allowed.

Sequences Trimming of control sequences was anowed

Total Length The total length of each sequence set was limited to 4.00e+6.

Maximum Motif p-value Stop when the p-value is greater than 0.05 for 3 consecutive motifs.

Maximum Motifs to Find No maximum number of motifs.

Maximum Run Time 14400 seconds.

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STREME version

5.5.5 (Release date: Thu Sep 14 08:48:04 2023 +1000)

Reference

Timothy L. Bailey, "STREME: accurate and versatile sequence motif discovery", *Bioinformatics*, Mar. 24, 2021. [full text]

Command line

streme --verbosity 1 --oc . --dna --totallength 4000000 --time 14400 --minw 8 --maxw 19 --thresh 0.05 --align center --dfile description --p 150_top_insertion_30bp_flanks.fasta --n output.bg.sequences.fasta