

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. [\[full text\]](#)

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DISCOVERED MOTIFS

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| Motif | Logo | RC Logo | P-value | E-value | Sites | More | Submit/Download | Positional Distribution | Matches per Sequence |
|-------------------|---|---|----------|----------|-------------|---|---|---|---|
| 1-GACCAATCCC |  |  | 1.3e-002 | 8.9e-002 | 64 (15.9%) |  |  |  |  |
| 2-RTAGSCTAY |  |  | 1.3e-002 | 8.9e-002 | 36 (9.0%) |  |  |  |  |
| 3-AGCTCCGCCYH |  |  | 2.7e-002 | 1.9e-001 | 61 (15.2%) |  |  |  |  |
| 4-TAAATAAATAA |  |  | 3.3e-002 | 2.3e-001 | 143 (35.6%) |  |  |  |  |
| 5-AGCGACTGTAAARCY |  |  | 5.8e-002 | 4.0e-001 | 32 (8.0%) |  |  |  |  |
| 6-ACCTAGTTGA |  |  | 1.2e-001 | 8.4e-001 | 36 (9.0%) |  |  |  |  |

Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05).
STREME ran for 19.3 seconds.

Motif

Logo

RC Logo

P-value

E-value

Sites


More


Submit/Download

Positional Distribution

Matches per Sequence

7-CACACAACACAC







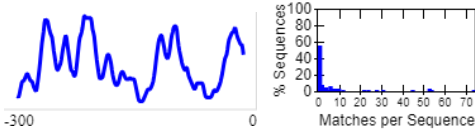
3.7e-001

2.6e+000

108 (26.9%)







Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05).
STREME ran for 19.3 seconds.

INPUTS & SETTINGS

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Sequences

| Role | Source | Alphabet | Sequence Count | Total Size |
|------------------------------|---|----------|----------------|------------|
| Positive (primary) Sequences | retrieve-ensembl-seq_2023-11-15.225255_nHsvhx.txt | DNA | 402 | 120600 |
| Negative (control) Sequences | 2-Order Shuffled Positive Sequences | DNA | 402 | 120600 |

Background Model

Source: built from the negative (control) sequences

Order: 2 (only order-0 shown)

| Name | Freq. | Bg. | | Bg. | Freq. | Name |
|----------|-------|-------|---|-----|-------|---------|
| Adenine | 0.307 | 0.307 | A | ~ | T | Thymine |
| Cytosine | 0.193 | 0.193 | C | ~ | G | Guanine |

Other Settings

| | |
|-------------------------------|---|
| Strand Handling | Both the given and reverse complement strands are processed. |
| Objective Function | Differential Enrichment |
| Statistical Test | Fisher Exact Test |
| Minimum Motif Width | 5 |
| Maximum Motif Width | 15 |
| Sequence Shuffling | Negative sequences are positives shuffled preserving 3-mer frequencies. |
| Test Set | 10% of the input sequences were randomly assigned to the test set. |
| Word Evaluation | Up to 25 words of each width from 5 to 15 were evaluated to find seeds. |
| Seed Refinement | Up to 4 seeds of each width from 5 to 15 were further refined. |
| Refinement Iterations | Up to 20 iterations were allowed when refining a seed. |
| Random Number Seed | 0 |
| Trimming of Control Sequences | Trimming of control sequences was allowed. |
| 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

5.5.4 (Release date: Fri Jun 16 12:19:08 2023 -0700)

Reference

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

Command line

streame --verbosity 1 --oc . --dna --totallength 4000000 --time 14400 --minw 5 --maxw 15 --thresh 0.05 --align right --p retrieve-ensembl-seq_2023-11-15.225255_nHsvhx.txt

