03-03-2023 09:48 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]

<u>Discovered Motifs</u> | <u>Inputs & Settings</u> | <u>Program Information</u> | <u>Motifs in MEME Text Format</u> | <u>Matching Sequences</u> > | <u>Results in XML</u> <u>Format</u>

DISCOVERED MOTIFS

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Motif	Logo	RC Logo	P-value	E-value	Sites	More	Submit/Download	P	C
1- CCACCCCCACCTCC	JÇç <u>&ÇÇÇÇÇ</u> _{&} ç _ç çç	<u>Ţ</u> Ţ <mark>ġġġġĠŢĠĠĠĠ</mark> ŢġĠ	3.0e-002	1.5e-001	64 (6.7%)	Ī	>	-50	
2-ACTTTG	I ACTIC	^a j <mark>caag</mark>	4.4e-002	2.2e-001	213 (22.2%)	Ī	>	-50	

Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05). STREME ran for 20.21 seconds.

Motif	Logo	RC Logo	P-value	E-value	Sites	More	Submit/Download	Pc		
3-TAATCCCAGCA	Ţ <mark>ĄĄŢĊĊĊĄĢ</mark> ÇĄ	J <mark>ŢĠĊŢĠĠĠĄŢŢ</mark> Ą	1.1e-001	5.3e-001	50 (5.2%)	Ī	>	-50		
4-AAATGCAAAA		JIIIGGA	2.5e-001	1.2e+000	27 (2.8%)	Ī	>	-50		
5-GATGTCAG		aje idacait	3.4e-001	1.7e+000	73 (7.6%)	Ī	>	-50		
Stopped because 3 consecutive motifs exceeded the p-value threshold (0.05). STREME ran for 20.21 seconds.										

Inputs & Settings

Role	Source	Alphabet	Sequence Count	Total Size	
Positive (primary) Sequences	./seqs-centered	DNA	958	95800	
Negative (control) Sequences	2-Order Shuffled Positive Sequences	DNA	958	95800	

Source: built from the negative (control) sequences

Order: 2 (only order-0 shown)

Name	Freq.	Bg.				Bg.	Freq.	Name
Adenine	0.258	0.258	Α	~	Т	0.258	0.258	Thymine
Cytosine	0.242	0.242	С	~	G	0.242	0.242	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 6
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 6 to 15 were evaluated to find seeds.

Seed Refinement Up to 4 seeds of each width from 6 to 15 were further refined.

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

Random Number Seed

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 5737 seconds.

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STREME version

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

Reference

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

Command line

streme --verbosity 1 --oc streme_out -dna --p ./seqs-centered --minw 6 --maxw 15 --time 5737 --order 2 --thresh 0.05 --totallength 4000000

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