23/03/2021 AME results



For further information on how to interpret these results please access http://meme-suite.org/doc/ame-output-format.html. To get a copy of the MEME software please access http://meme-suite.org.

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

Robert McLeay and Timothy L. Bailey, "Motif Enrichment Analysis: A unified framework and method evaluation", BMC Bioinformatics, 11:165, 2010, doi:10.1186/1471-2105-11-165. [full text]

ENRICHED MOTIFS | INPUT FILES | PROGRAM INFORMATION | RESULTS IN TSV FORMAT



Positive sequences for each motif



ENRICHED MOTIFS

Sequence motif score: avg_odds

Background model source: letter frequencies in (primary) sequences file (G4NN_finetune_min_seq.fa)

Background model frequencies: 0.265796,0.234204,0.234204,0.265796

Total pseudocount added to a motif column: 0.1

Statistical test: Fisher's exact test (optimized over motif scores)

Labeling positives: all 100 primary sequences are labeled as 'positive'; all 1100 control sequences are labeled as 'negative'

Classifying positives: sequences with the motif scores ≥ 'TP Thresh' are classified as positive

E-value threshold for reporting results: 10

Logo	Database	ID	Alt ID	<i>p</i> - value	<i>E</i> - value	TP Thresh	TP (%)
	JASPAR2018 CORE vertebrates non- redundant JASPAR2018	<u>MA0660.1</u>	MEF2B	1.80e- 8	1.04e- 5	7.70	11 (11.0%)
	CORE vertebrates non- redundant JASPAR2018	MA0773.1	MEF2D	2.79e- 8	1.62e- 5	1.64	13 (13.0%)
	CORE vertebrates non- redundant JASPAR2018	MA0052.3	MEF2A	2.41e- 6	1.39e- 3	4.41	13 (13.0%)
al a section of the s	CORE vertebrates non- redundant JASPAR2018	MA0497.1	MEF2C	2.65e- 6	1.54e- 3	1.83	27 (27.0%)
	CORE vertebrates non- redundant JASPAR2018	MA0778.1	NFKB2	5.18e- 6	3.00e- 3	6.63	12 (12.0%)
g, CAAT	CORE vertebrates non- redundant JASPAR2018	MA0019.1	Ddit3::Cebpa	3.94e- 5	2.28e- 2	3.15	18 (18.0%)
al Scription of the second sec	core vertebrates non- redundant JASPAR2018	MA0814.1	TFAP2C(var.2)	5.99e- 5	3.47e- 2	6.13	19 (19.0%)
_į Packėlė Packėlė Packėlė Packėlė	core vertebrates non- redundant JASPAR2018	MA0111.1	Spz1	1.01e- 4	5.86e- 2	8.29	16 (16.0%)
il section	CORE vertebrates non- redundant JASPAR2018	<u>MA0693.2</u>	VDR	1.01e- 3	5.85e- 1	7.30	15 (15.0%)
ij ĊĠŢŢŖŖŢĠŖŖŖŶĹ	CORE vertebrates non- redundant	MA0799.1	RFX4	1.06e- 3	6.14e- 1	1.29	11 (11.0%)

23/03/2021 AME results

Logo	Database	ID	Alt ID	<i>p</i> - value	<i>E-</i> value	TP Thresh	TP (%)
	JASPAR2018 CORE vertebrates non- redundant	MA1125.1	ZNF384	4.57e- 3	2.65e0	257.53	6 (6.0%)
AATGITTE	JASPAR2018 CORE vertebrates non- redundant	MA0041.1	Foxd3	5.65e- 3	3.27e0	8.20	16 (16.0%)
End Country of the second of t	JASPAR2018 CORE vertebrates non- redundant	MA0006.1	Ahr::Arnt	1.22e- 2	7.04e0	1.35	16 (16.0%)

INPUT FILES

Δ1	h	ha	h	at
\boldsymbol{H}	II)	пи	1)(-1

Background source: built from the (primary) sequences

Name	Bg.				Bg.	Name
Adenine	0.265796	Α	~	Т	0.265796	Thymine
Cytosine	0.234204	С	~	G	0.234204	Guanine

Sequences

Primary Sequences	Number	Control Sequences	Number
G4NN_finetune_min_seq.fa	100	primary sequences shuffled conserving 2-mer frequencies	1100

Motifs

Database	Source	Motif Count
JASPAR2018 CORE vertebrates non- redundant	motif_databases/JASPAR/JASPAR2018_CORE_vertebrates_non- redundant.meme	579

AME version 5.1.1 (Release date: Wed Feb 12 17:20:50 2020 -0800)

Copyright © Robert McLeay & Timothy Bailey meme-suite@uw.edu, 2009.

Command line summary

ame --oc G4NN_finetune_minseq_JasparCore --scoring avg --method fisher --hit-lo-fraction 0.25 --evalue-report-threshold 10.0 --control --shuffle-- --kmer 2 G4NN_finetune_min_seq.fa motif_databases/JASPAR/JASPAR2018_CORE_vertebrates_non-redundant.meme

23/03/2021 AME results