

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

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

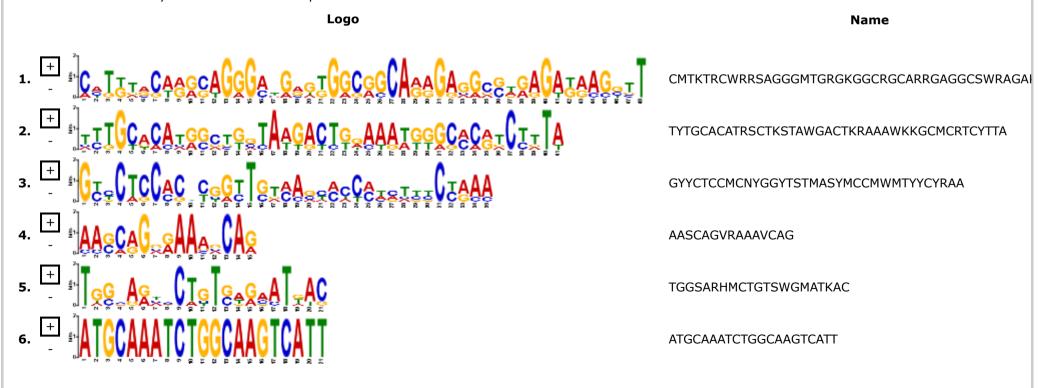
If you use MAST in your research, please cite the following paper:

Timothy L. Bailey and Michael Gribskov, "Combining evidence using p-values: application to sequence homology searches", *Bioinformatics*, **14**(1):48-54, 1998. [full text]

MOTIFS | SEARCH RESULTS | INPUTS & SETTINGS | PROGRAM INFORMATION | RESULTS IN TEXT FORMAT | RESULTS IN XML FORMAT

Motifs Next Top

Motifs with a pale red background are very similar to other earlier specified motifs and may be biasing the results. It is recommended that you re-run MAST and request it to remove redundant motifs.



Logo

Name

8. F SOME ACAGECT ACAGET ACAGE

• # ACITCSGITGS CIC

10. + JGGGGAG

11. + DGGGGAG

12. + 1 GAGGGG

13. + 1 COACCO

14. # #JTGCTA@CTACC

15. 🛨 🕄 CTGTGAACAAT

16. 🕂 🖞 GTGGTG_EAG

17. 🛨 🕄 GCAAAGAG

18. 🛨 📲 TGCAeCTeTGC

CAGAAGCYGC

CACAGCCWGGCACA

ACTTCHGYTGBSVTCHCYCT

GGGCAG

GGGGAG

GSAGGGGG

CCACCCC

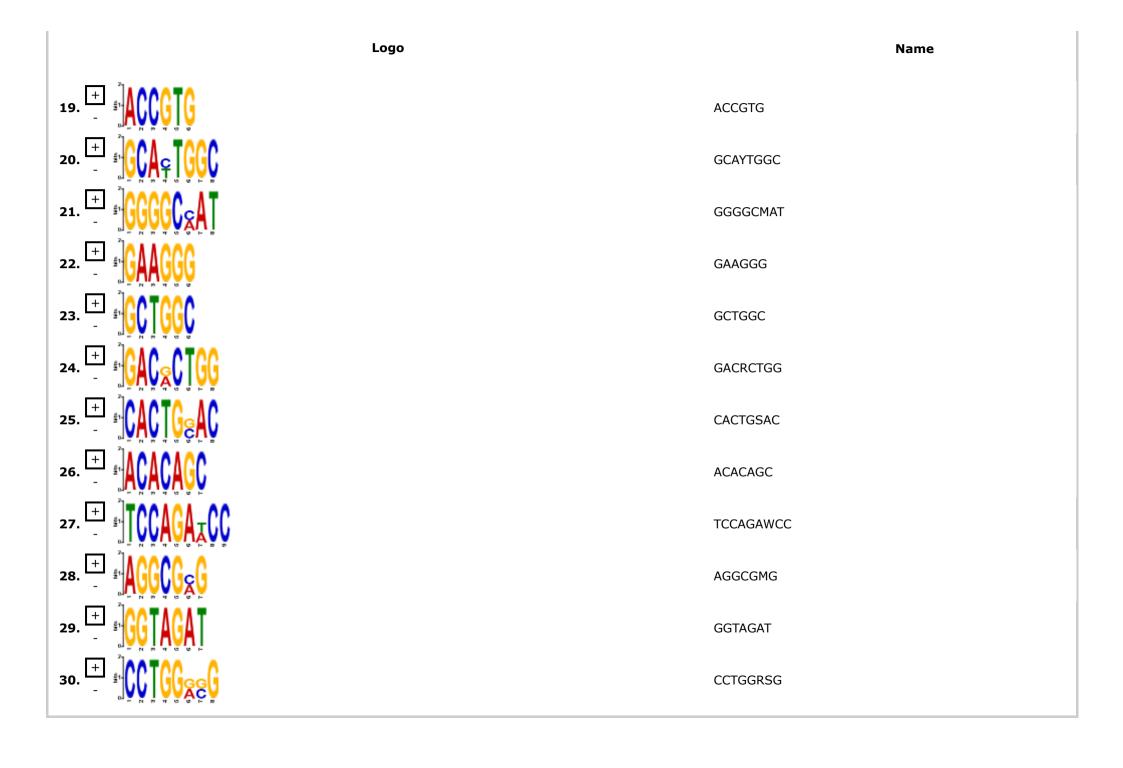
TGCTASCTACC

CTGTGAACAAT

GTGGTGSAG

GCAAAGAG

TGCASCTSTGC



SEARCH RESULTS

Prev Next Top

Top Scoring Sequences Each of the following 12 sequences has an *E*-value less than 10. The motif matches shown have a position *p*-value less than 0.0001. **Hover the cursor** over the sequence name to view more information about a sequence. **Hover the cursor** over a motif for more information about the match. **Click on the arrow** (1) next to the *E*-value to see the sequence surrounding each match. ☐ CMTKTRCWRRSAGGGMTGRGKGGCRGCARRGAGGCSWRAGAKRAGSTT ☐ TYTGCACATRSCTKSTAWGACTKRAAAWKKGCMCRTCYTTA GYYCTCCMCNYGGYTSTMASYMCCMWMTYYCYRAA AASCAGVRAAAVCAG TGGSARHMCTGTSWGMATKAC ATGCAAATCTGGCAAGTCATT □ CAGAAGCYGC □ CACAGCCWGGCACA □ ACTTCHGYTGBSVTCHCYCT □ GGGCAG □ GGGGAG □ GSAGGGGG □ CCACCCC □ TGCTASCTACC CTGTGAACAAT GTGGTGSAG GCAAAGAG TGCASCTSTGC ACCGTG GCAYTGGC GGGGCMAT GAAGGG GCTGGC GACRCTGG CACTGSAC ACACAGC TCCAGAWCC AGGCGMG GGTAGAT CCTGGRSG **Block Diagram** Sequence E-value cq08122652 1.3e-60 cq00959259 8.1e-56 cg22930808 1.1e-36 cg21549285 1.0e-21 cg14392283 4.2e-21 cq10549986 3.4e-20 cg14293575 1.6e-17 cg08514194 9.1e-15 cg07839457 8.4e-12 cg26846609 3.0e-9 cg21193926 3.1e-7 cg05696877 1.5e+0 50 100 150 200

☐ CAC	GAAGCYGC CA	YGGYTSTMASY CAGCCWGGCA	MCCMWMTYYC CA	YRAA 🗌 AASO HGYTGBSVTCH AGAG 🔲 TGC	AGGCSWRAGAKRAGSTT
Inputs & Sett	ΓINGS				<u>Prev Next Top</u>
Alphabet					
Background So	ource: an old versi	on of the NCBI	non-redundan	t database	
Name Adenine Cytosine	Bg. 0.274262 A 0.22521 C	_	Bg. 0.274262 0.22521	Name Thymine Guanine	
Sequences					
The following	sequence database	was supplied	to MAST.		
		Sequence		sidue Count	Last Modified
SLE_dmp_cr	SLE_dmp_cpg_sequences.fasta Total		12 24 12 24		Sat Jun 21 08:09:21 2025
Motifs					
The following i	motif database was	s supplied to M	AST.		
Database Last Modified meme.xml Sat Jun 21 08:09:38 2025					
Other Settings					
Strand Hand	llina		g both strands	is combined .	When matches overlap the non-overlapping combination with the best p-value is
shown. Max Correlation Motifs with a correlation greater than 0.6 are marked for potential removal dependant on theremcorr option.					ked for potential removal dependant on theremcorr option.

Remove Correlated Correlated motifs exceeding the threshold are **highlighted** and their removal is recommended.

Max Sequence Evalue
Sequences with an E-value less than 10 are included in the output.

Adjust Hit *p***-value** The hit *p*-value is **not adjusted** for the length of the sequence.

Displayed Hits The *p*-value of a hit must be less than **0.0001** to be shown in the output.

Displayed Weak Hits Weak hits are **not displayed**.

Prev Top

MAST version 5.5.8

(Release date: Thu May 15 15:01:46 2025 -0700)

Reference

Timothy L. Bailey and Michael Gribskov, "Combining evidence using p-values: application to sequence homology searches", Bioinformatics, 14(1):48-54, 1998. [full text]

Command line summary

mast -oc . -nostatus meme.xml SLE dmp cpg sequences.fasta

Ran in 0.04 seconds on Sat Jun 21 08:09:38 2025 on noble-meme.grid.gs.washington.edu