

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.

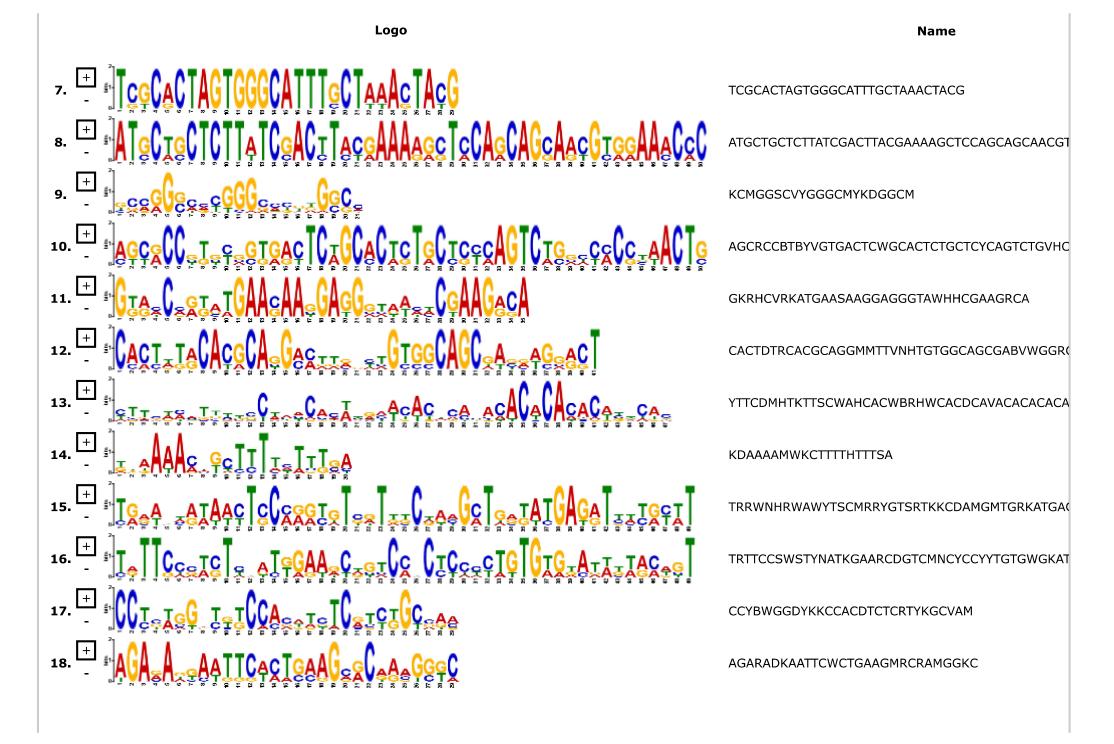
If you use MAST in your research, please cite the following paper:

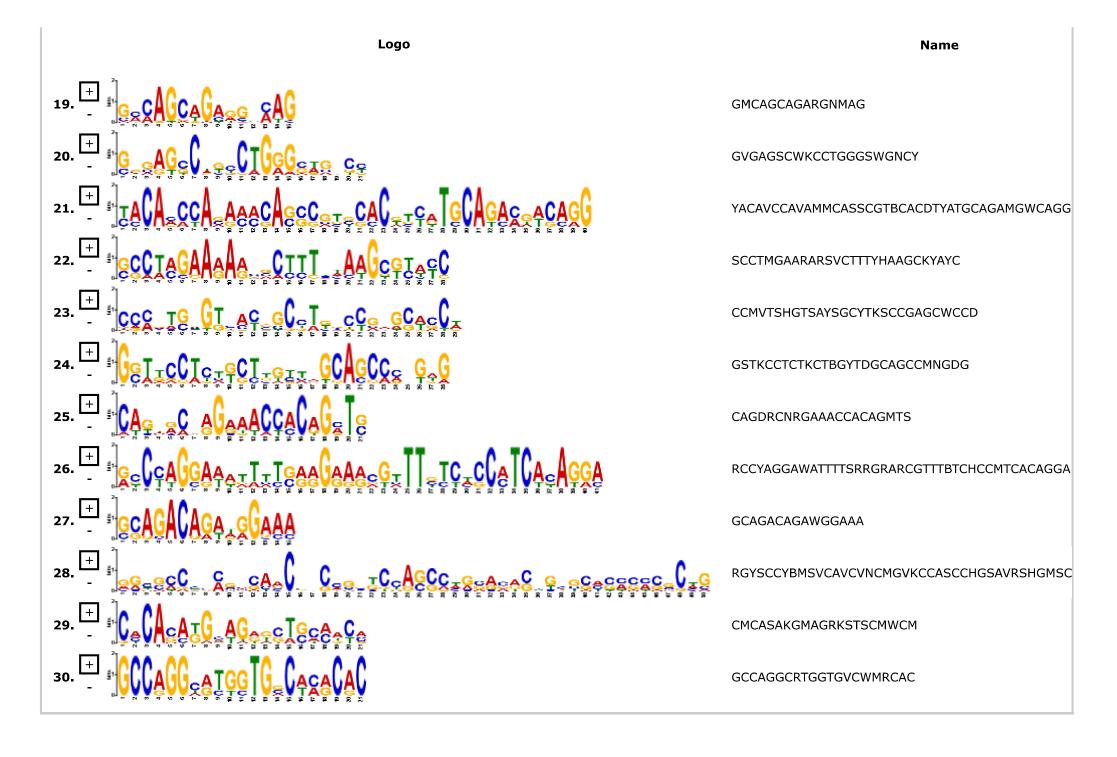
Timothy L. Bailey and Michael Gribskov, "Combining evidence using p-values: application to sequence homology searches", Bioinformatics, 14(1):48-54, 1998. [full text]

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

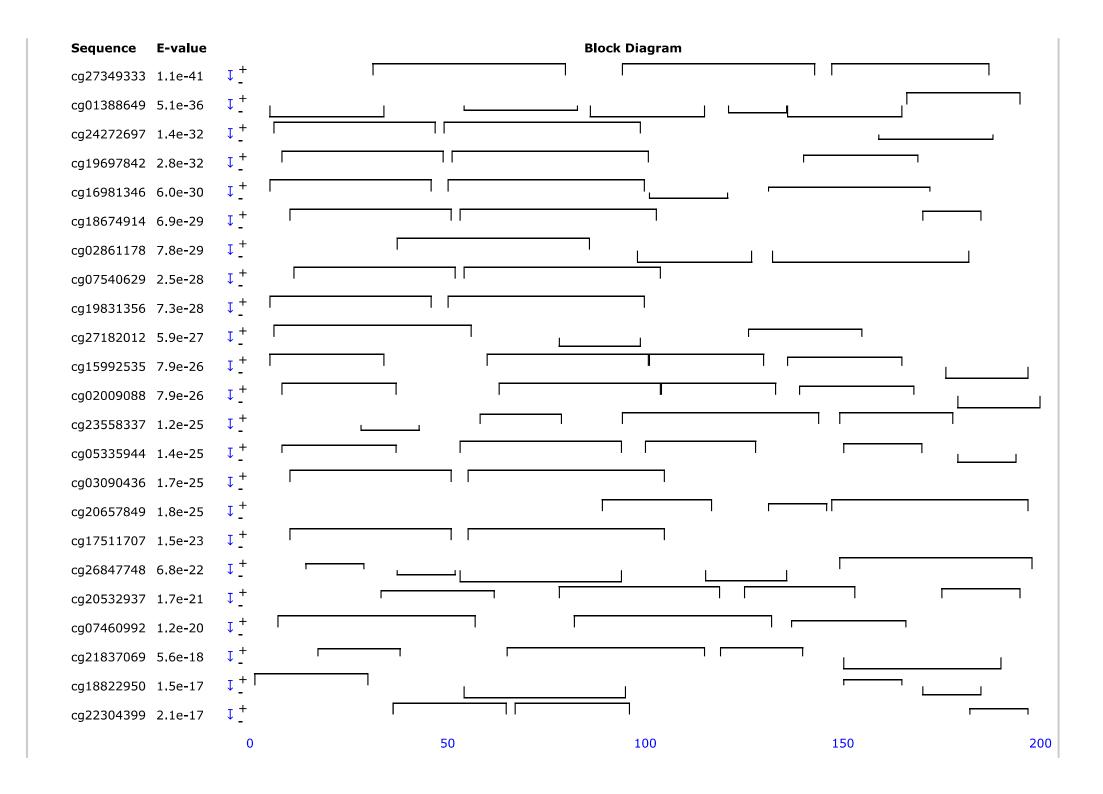
Motifs Next Top

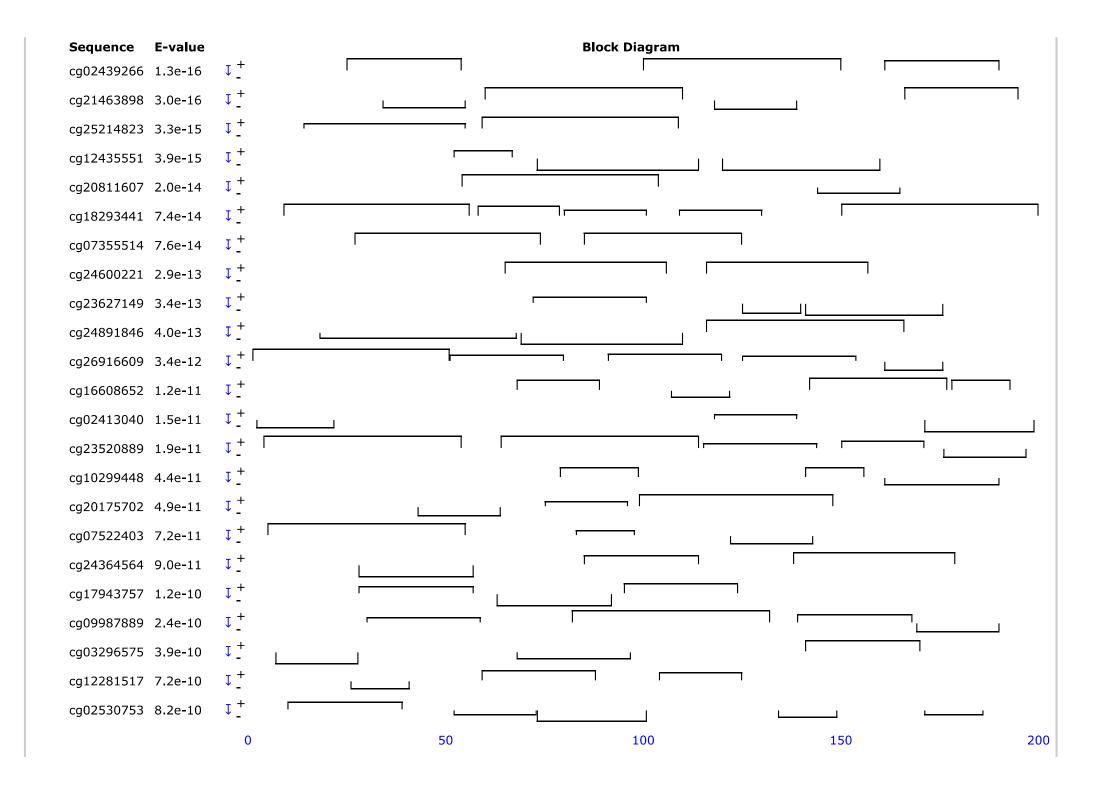
Motifs with a pale red background are very similar to other earlier specified motifs and may be biasing the results. It is recommended that you re-run MAST and request it to remove redundant motifs.

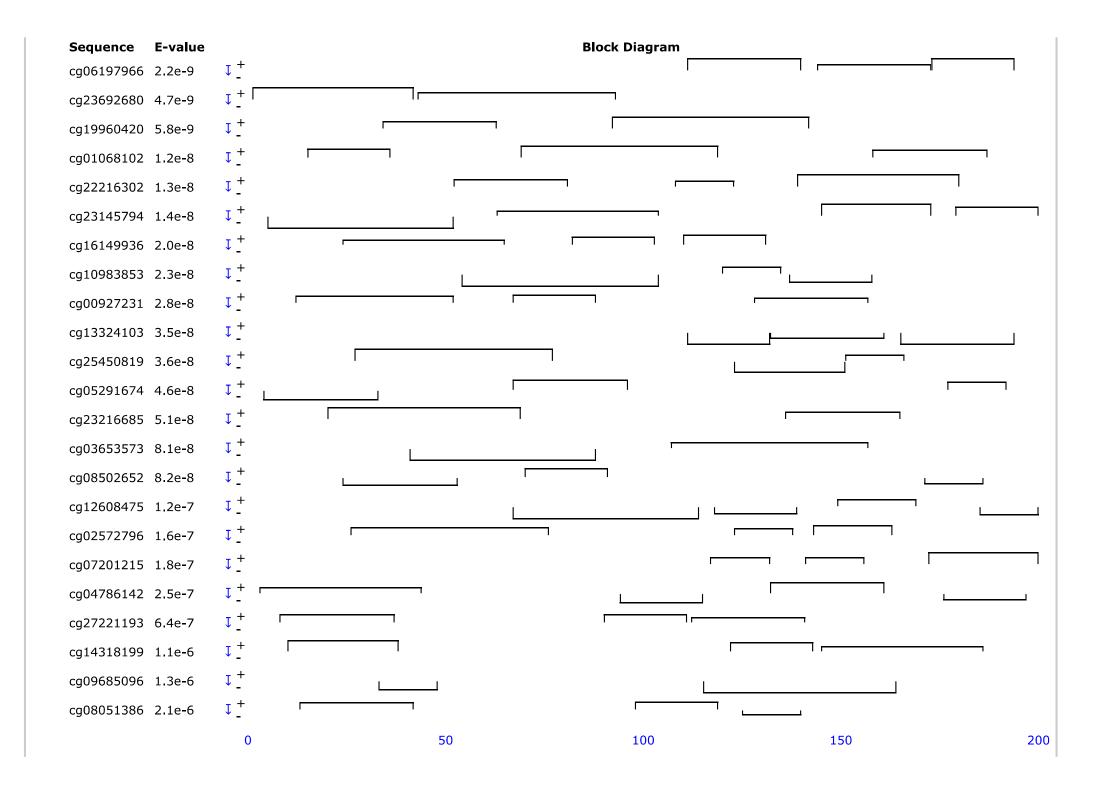


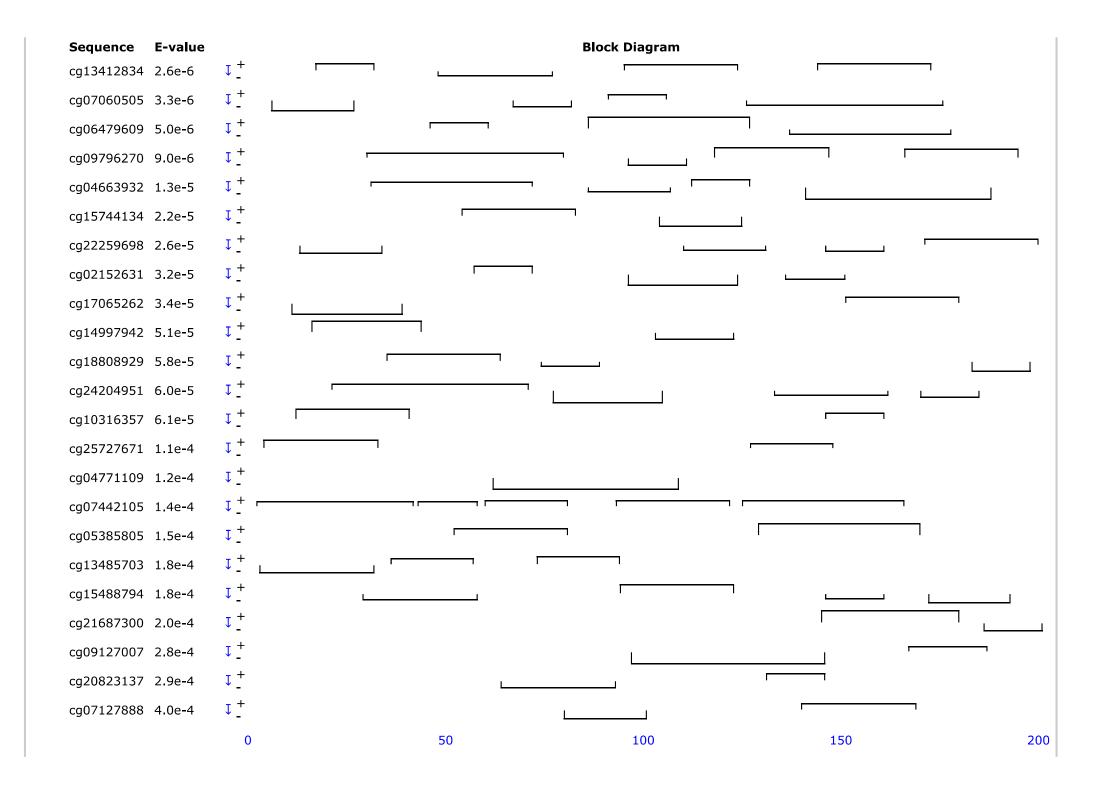


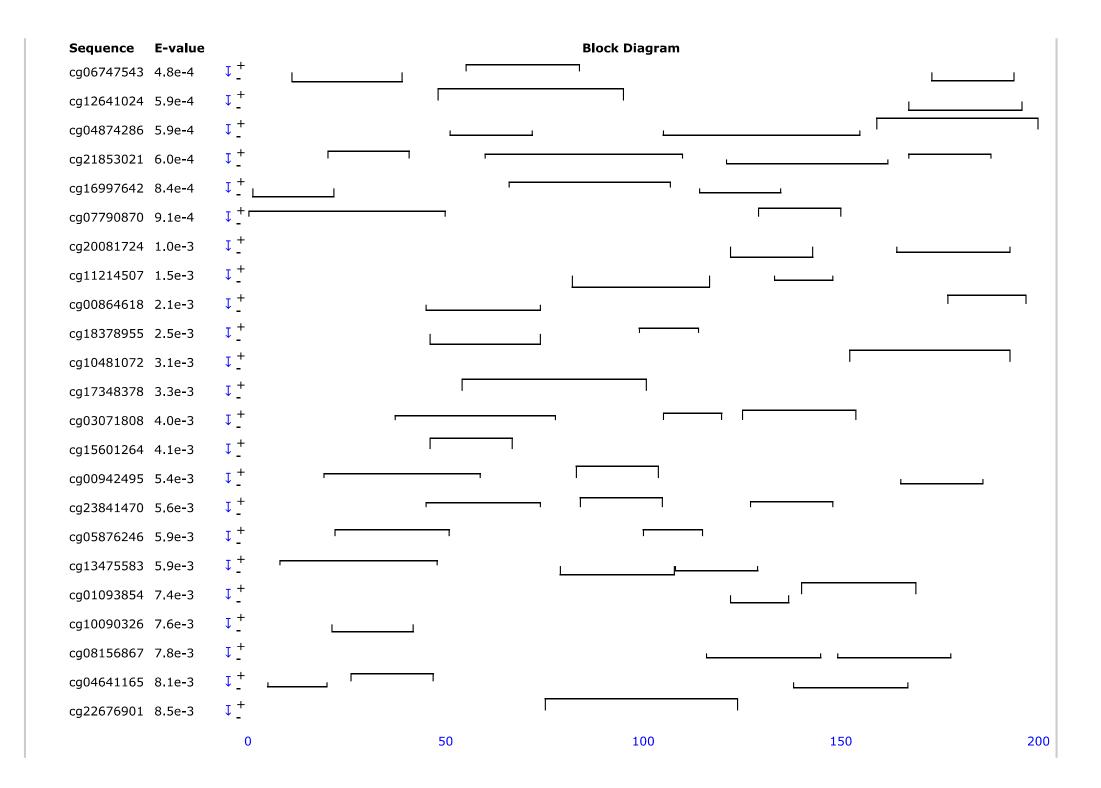
Top Scoring Sequences Each of the following 205 sequences has an *E*-value less than 10. The motif matches shown have a position p-value less than 0.0001. **Hover the cursor** over the sequence name to view more information about a sequence. **Hover the cursor** over a motif for more information about the match. **Click on the arrow** (1) next to the *E*-value to see the sequence surrounding each match. ☐ CYGCCTYGGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCRCC ☐ BCHKBVSCNCCYSCHSCCCCWSCCCYSS ☐ ATGTTRGCCAGGCTGGTCTYGAACTCCTGACCTCADGHDMY ☐ TTTYWTTYTTTTYT ☐ CCYCVRWVTCRKCTCCCGSMCMCDCCCDGSCKRSRGMCVCG SCGCCYGCTGCCTTCGTTCTCCCWACWGS TCGCACTAGTGGGCATTTGCTAAACTACG ☐ ATGCTGCTCTTATCGACTTACGAAAAGCTCCAGCAGCAACGTGGAAACCC ☐ KCMGGSCVYGGGCMYKDGGCM ☐ AGCRCCBTBYVGTGACTCWGCACTCTGCTCYCAGTCTGVHCMCCBAACTG ☐ GKRHCVRKATGAASAAGGAGGGTAWHHCGAAGRCA ☐ CACTDTRCACGCAGGMMTTVNHTGTGGCAGCGABVWGGRCT ☐ YTTCDMHTKTTSCWAHCACWBRHWCACDCAVACACACACACWBBCAC ☐ KDAAAAMWKCTTTTHTTTSA ☐ TRRWNHRWAWYTSCMRRYGTSRTKKCDAMGMTGRKATGAGRTYWYRYWT ☐ TRTTCCSWSTYNATKGAARCDGTCMNCYCCYYTGTGWGKATWKWRMWGT ☐ CCYBWGGDYKKCCACDTCTCRTYKGCVAM ☐ AGARADKAATTCWCTGAAGMRCRAMGGKC ☐ GMCAGCAGARGNMAG ☐ GVGAGSCWKCCTGGGSWGNCY ☐ YACAVCCAVAMMCASSCGTBCACDTYATGCAGAMGWCAGG ☐ SCCTMGAARARSVCTTTYHAAGCKYAYC ☐ CCMVTSHGTSAYSGCYTKSCCGAGCWCCD ☐ GSTKCCTCTKCTBGYTDGCAGCCMNGDG ☐ CAGDRCNRGAAACCACAGMTS ☐ RCCYAGGAWATTTTSRRGRARCGTTTBTCHCCMTCACAGGA \lnot GCAGACAGAWGGAAA \sqcap RGYSCCYBMSVCAVCVNCMGVKCCASCCHGSAVRSHGMSCMSMSMCSCHG \sqcap CMCASAKGMAGRKSTSCMWCM GCCAGGCRTGGTGVCWMRCAC Sequence E-value **Block Diagram** cq06866163 1.6e-60 cq13922451 9.1e-49 cq11090364 9.7e-46 cq18479972 1.1e-44 cq09130077 1.1e-44 cg01134643 1.8e-44 50 100 150 200

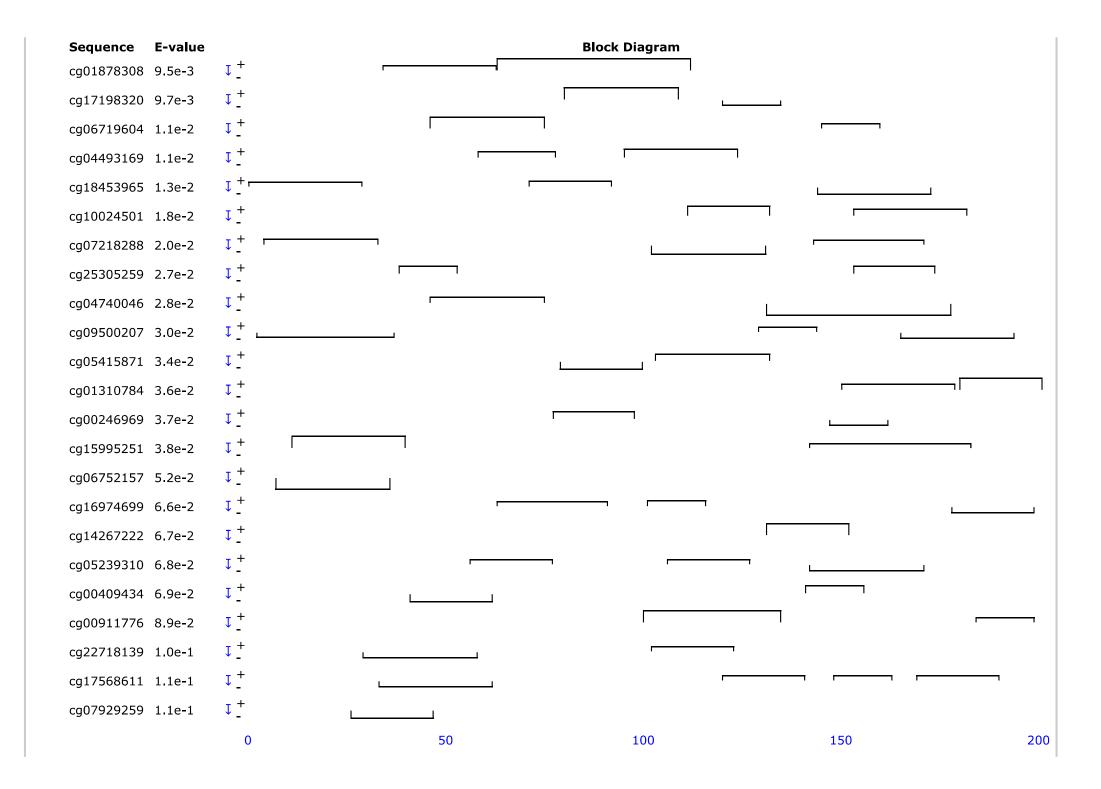


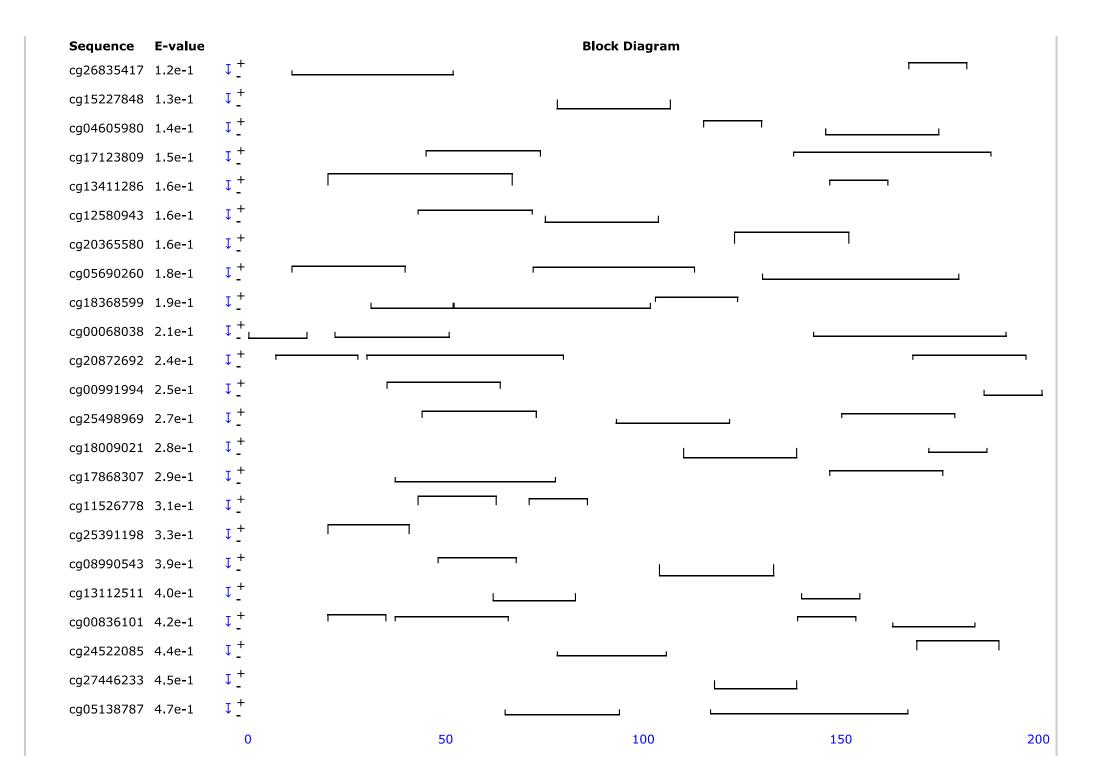


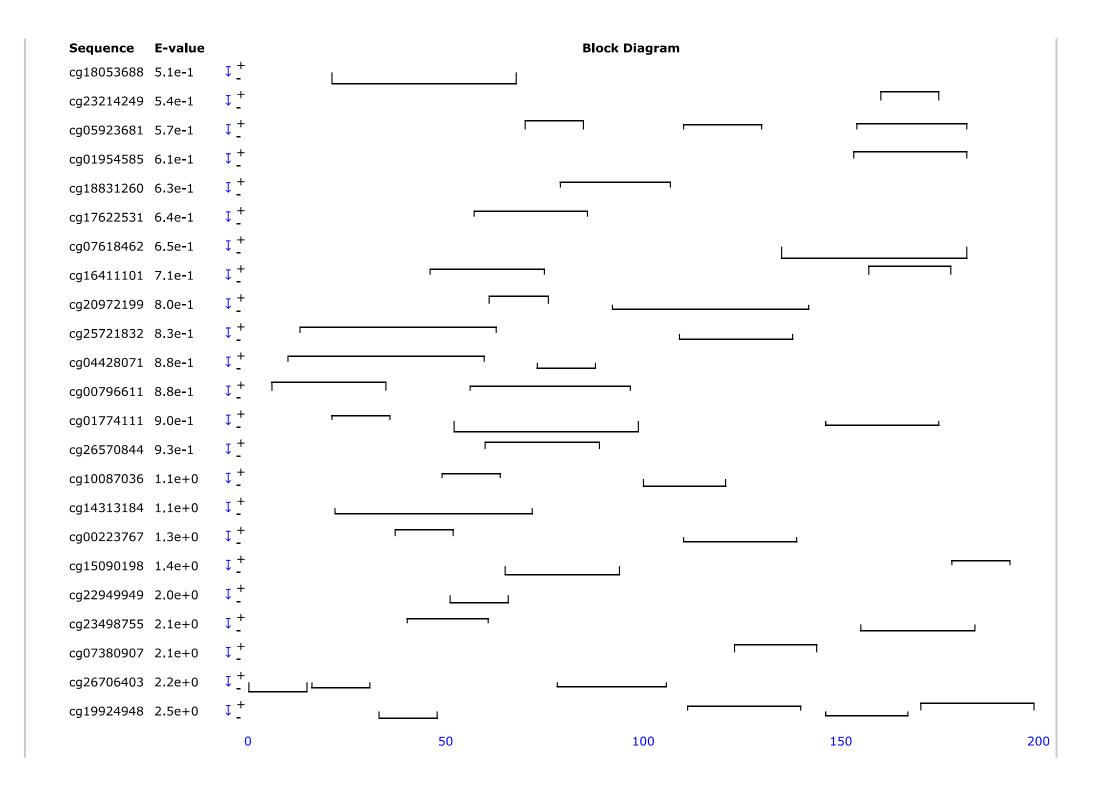


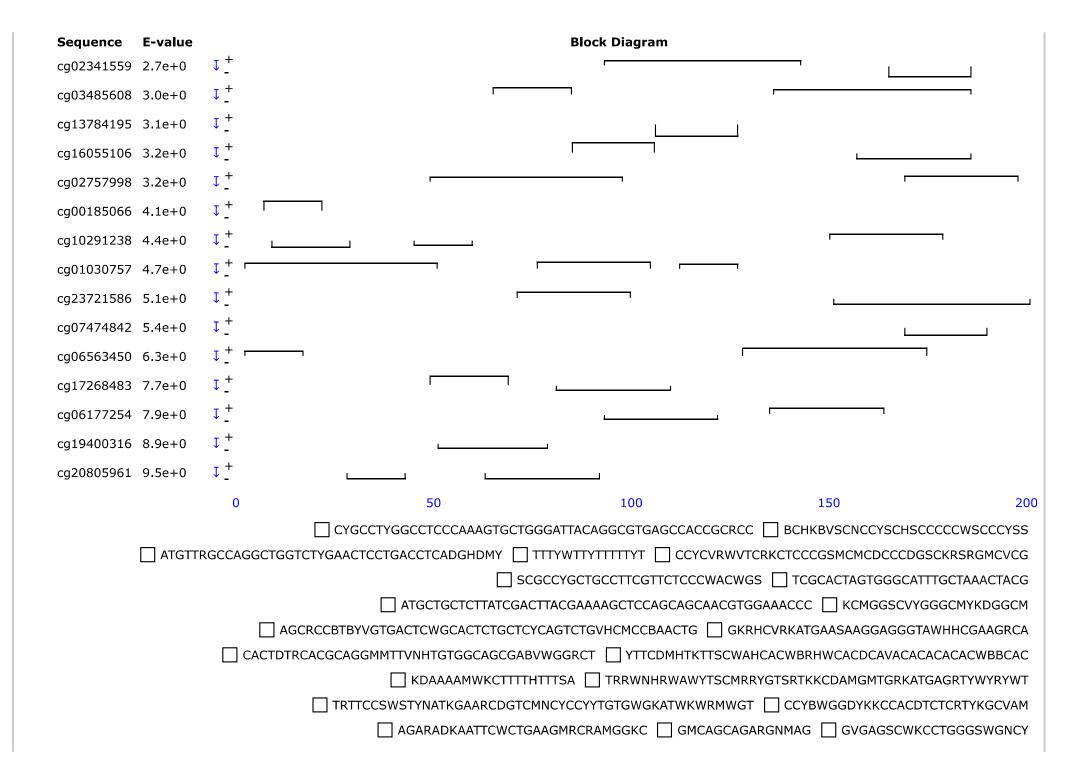












□ YA	☐ GSTKCC	CTCTKCTBGYTDGCAG	CCMNGDG CAGDI	SCCTMGAARARSVCTTTYHAAGCKYAYC	
INPUIS & SEITIN	GS			<u>Prev Next Top</u>	
Alphabet					
Background Source	e: an old version	n of the NCBI non-red	dundant database		
Adenine 0.	Bg. 274262 A 22521 C	Bg ∼ T 0.27 ∼ G 0.22	4262 Thymine		
Sequences					
The following sequ	ence database	was supplied to MAST	-		
Database UC_dmp_cpg_sequences.fasta Total		Sequence Count 334 334	Residue Count 67134 67134	Last Modified Sat Jun 21 02:18:32 2025	
Motifs					
The following moti	f database was	supplied to MAST.			
Database meme.xml S	Last Modifi at Jun 21 04:46				
Other Settings					
Strand Handling Max Correlation Remove Correlate	shown. Motifs v	The result of scanning both strands is combined . When matches overlap the non-overlapping combination with the best p-value is shown. Motifs with a correlation greater than 0.6 are marked for potential removal dependant on theremcorr option. Correlated motifs exceeding the threshold are highlighted and their removal is recommended.			

Max Sequence *E*-value

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**.

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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 UC_dmp_cpg_sequences.fasta

Ran in 0.472 seconds on Sat Jun 21 04:46:22 2025 on noble-meme.grid.gs.washington.edu