

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

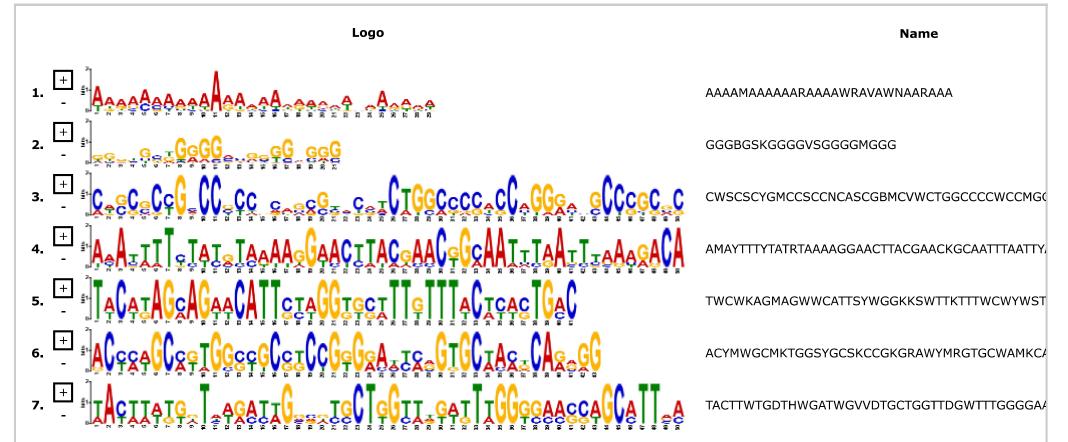
To get a copy of the MEME software please access https://meme-suite.org.

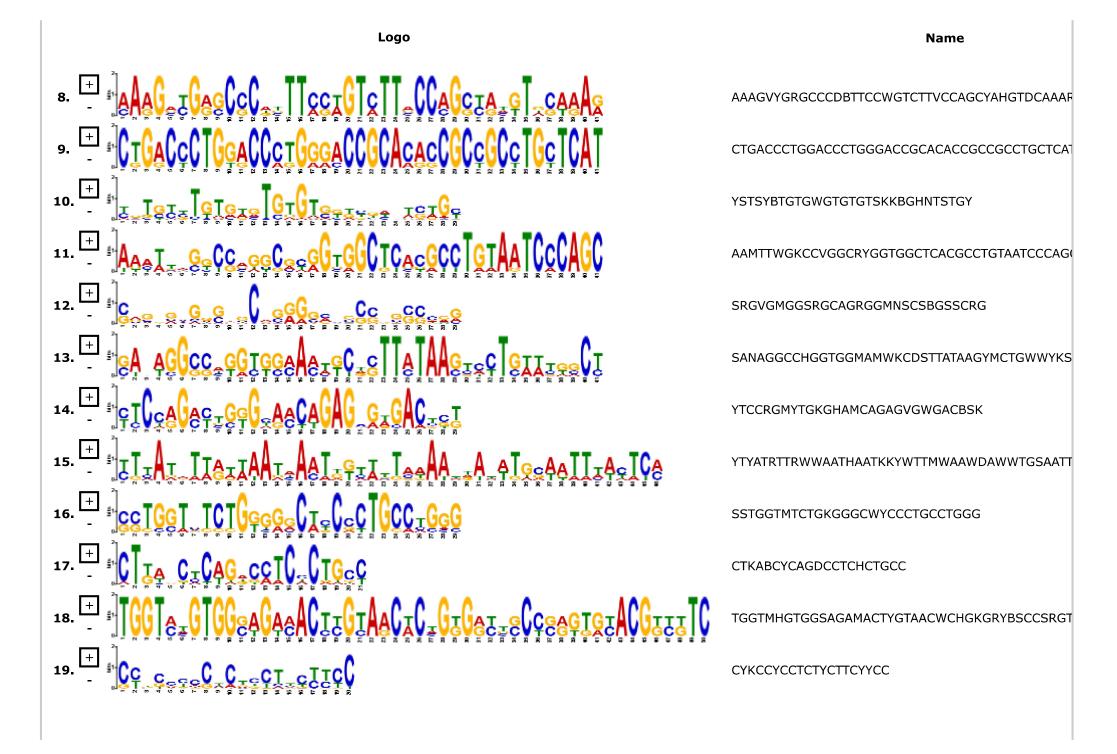
If you use MAST in your research, please cite the following paper:

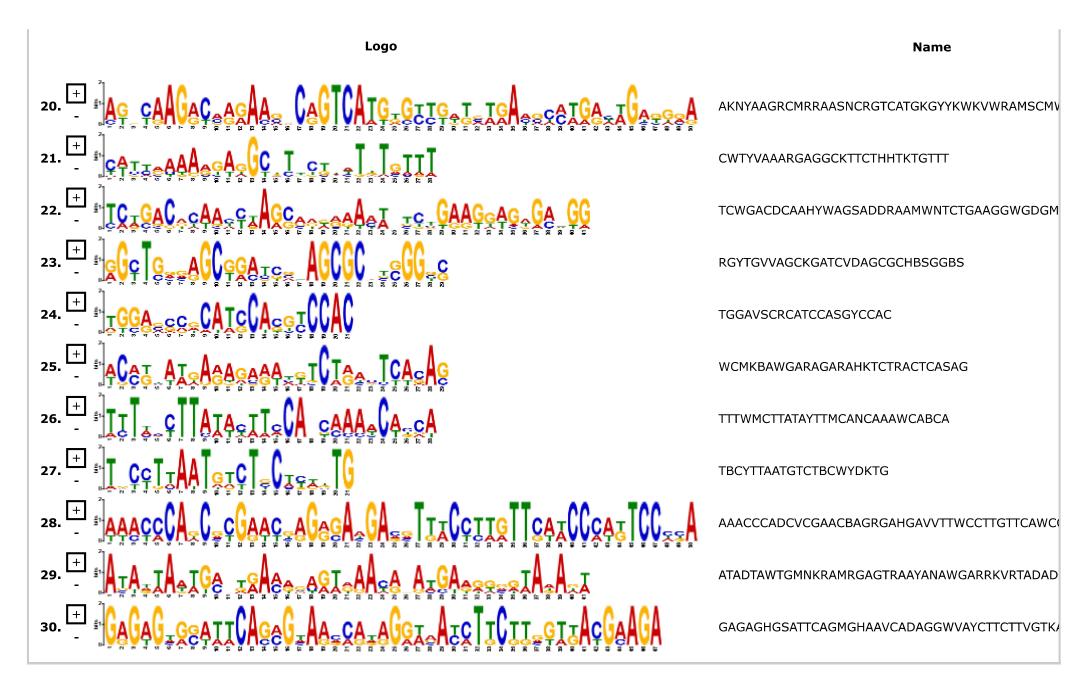
Timothy L. Bailey and Michael Gribskov, "Combining evidence using p-values: application to sequence homology searches", Bioinformatics, 14(1):48-54, 1998. [full text]

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

Motifs Next Top



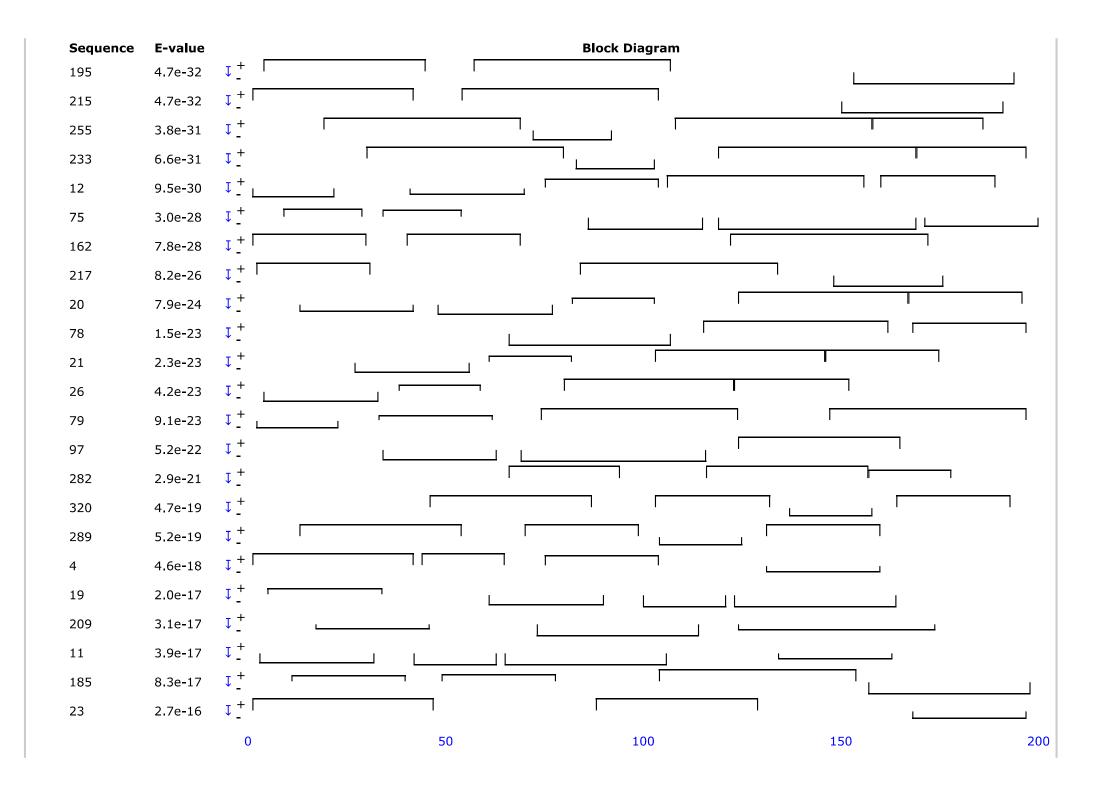


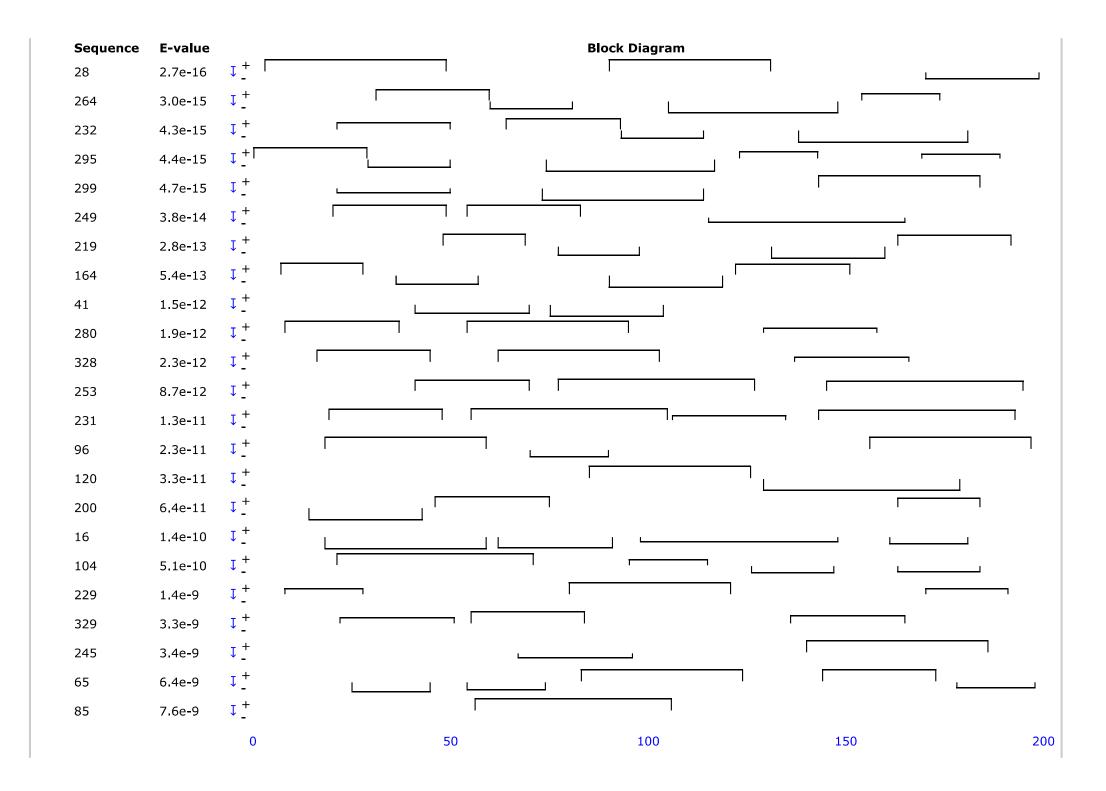


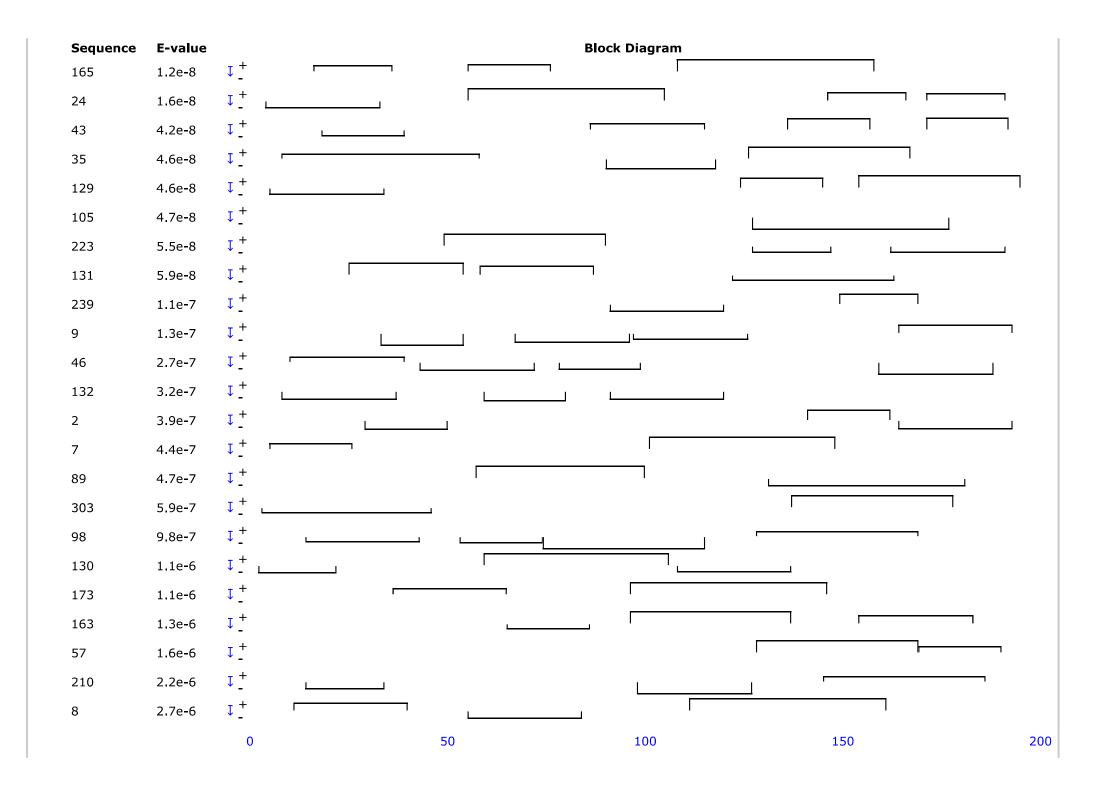
SEARCH RESULTS

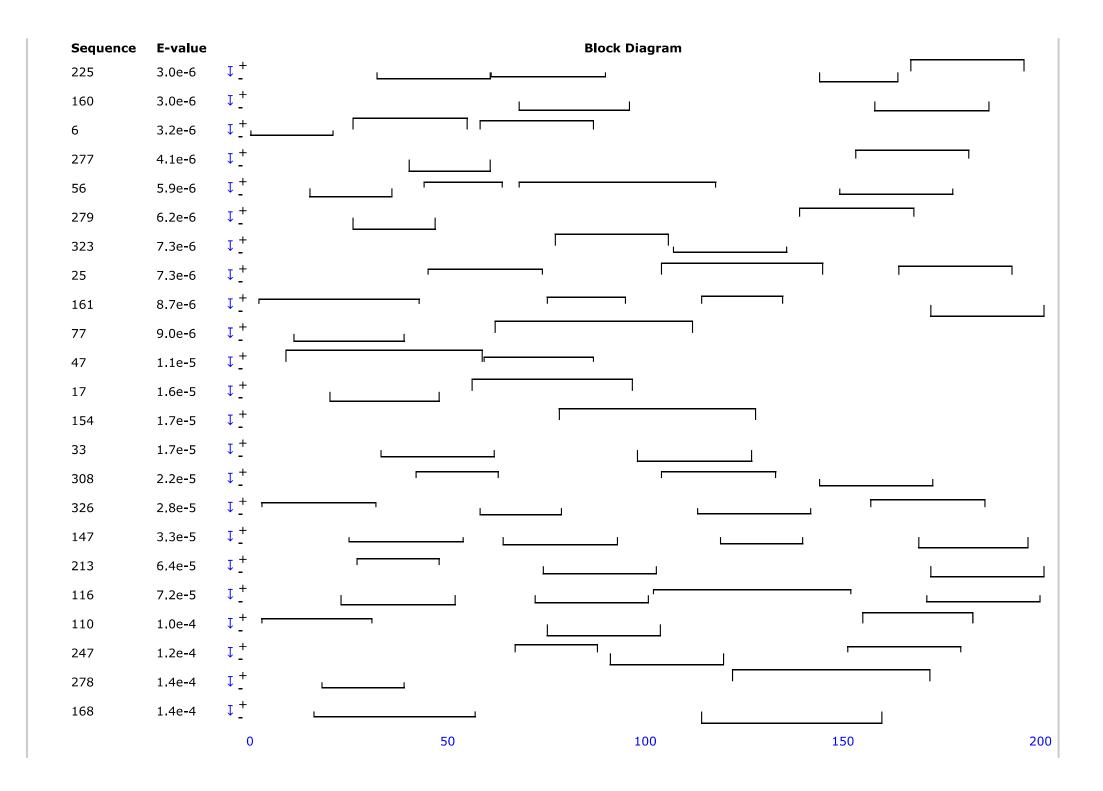
Prev Next Top

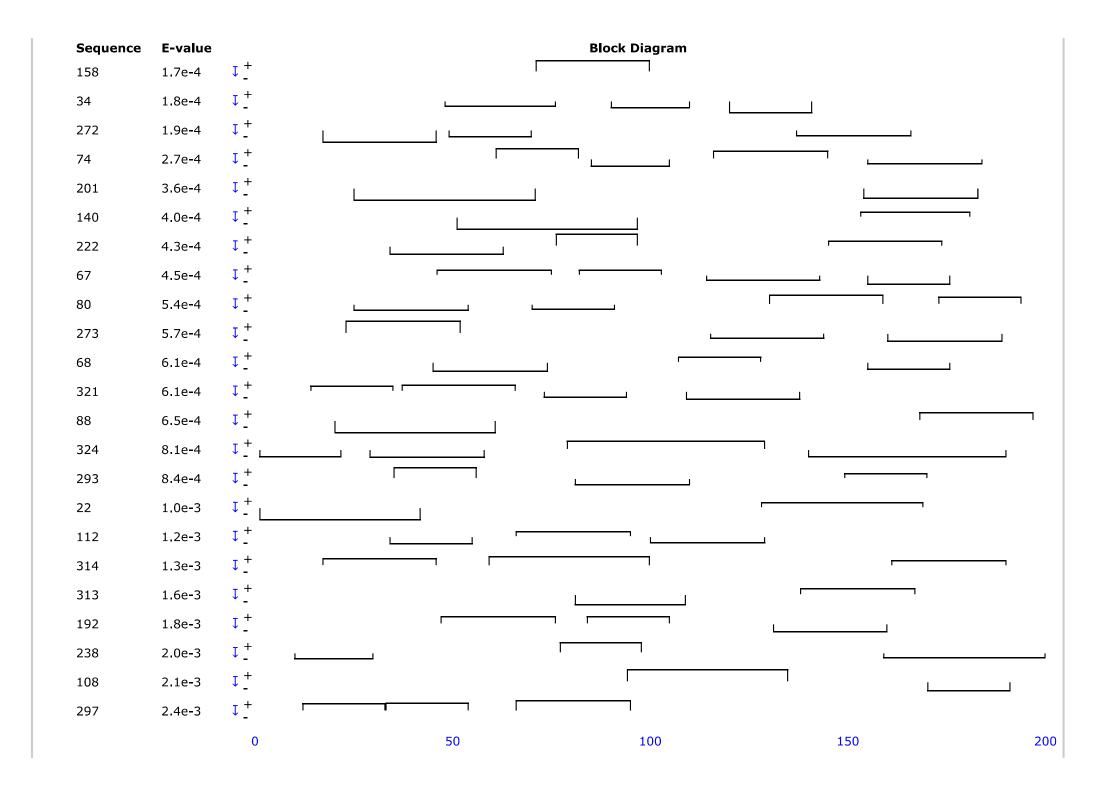
Each of the following 250 sequences has an E-value less than 10. The motif matches shown have a position p-value less than 0.0001. **Hover the cursor** over the sequence name to view more information about a sequence. **Hover the cursor** over a motif for more information about the match. **Click on the arrow** (1) next to the *E*-value to see the sequence surrounding each match. ☐ GGGBGSKGGGGVSGGGMGGG ☐ CWSCSCYGMCCSCCNCASCGBMCVWCTGGCCCCWCCMGGRMNGCCCGCVC AAAAMAAAAAARAAAAWRAVAWNAARAAA ☐ AMAYTTTYTATRTAAAAGGAACTTACGAACKGCAATTTAATTYAAAGACA
☐ TWCWKAGMAGWWCATTSYWGGKKSWTTKTTTWCWYWSTGMC ☐ ACYMWGCMKTGGSYGCSKCCGKGRAWYMRGTGCWAMKCARRGG ☐ TACTTWTGDTHWGATWGVVDTGCTGGTTDGWTTTGGGGAASCAGCATTVA ☐ AAAGVYGRGCCCDBTTCCWGTCTTVCCAGCYAHGTDCAAAR ☐ CTGACCCTGGGACCCTGGACCGCCGCCGCCTGCTCAT YSTSYBTGTGWGTGTGTSKKBGHNTSTGY AAMTTWGKCCVGGCRYGGTGGCTCACGCCTGTAATCCCAGC SRGVGMGGSRGCAGRGGMNSCSBGSSCRG ☐ SANAGGCCHGGTGGMAMWKCDSTTATAAGYMCTGWWYKSCT ☐ YTCCRGMYTGKGHAMCAGAGVGWGACBSK \square YTYATRTTRWWAATHAATKKYWTTMWAAWDAWWTGSAATTWAYTCM $\ \square$ SSTGGTMTCTGKGGGCWYCCCTGCCTGGG $\ \square$ CTKABCYCAGDCCTCHCTGCC ☐ TGGTMHGTGGSAGAMACTYGTAACWCHGKGRYBSCCSRGTGYACGKYKTC ☐ CYKCCYCCTCTYCTTCYYCC □ AKNYAAGRCMRRAASNCRGTCATGKGYYKWKVWRAMSCMWGRHWGAKGRA □ CWTYVAAARGAGGCKTTCTHHTKTGTTT ☐ TCWGACDCAAHYWAGSADDRAAMWNTCTGAAGGWGDGMHGG ☐ RGYTGVVAGCKGATCVDAGCGCHBSGGBS ☐ TGGAVSCRCATCCASGYCCAC ■ WCMKBAWGARAGARAHKTCTRACTCASAG ■ TITWMCTTATAYTTMCANCAAAWCABCA ■ TBCYTTAATGTCTBCWYDKTG \lnot AAACCCADCVCGAACBAGRGAHGAVVTTWCCTTGTTCAWCCCAKTCCHBA \lnot ATADTAWTGMNKRAMRGAGTRAAYANAWGARRKVRTADADW GAGAGHGSATTCAGMGHAAVCADAGGWVAYCTTCTTVGTKACGAAGA Sequence E-value **Block Diagram** 248 1.7e-59 274 1.7e-59 287 4.7e-52 266 4.1e-43 216 1.3e-42 227 1.5e-42 265 1.4e-41 281 8.7e-39 50 100 150 200

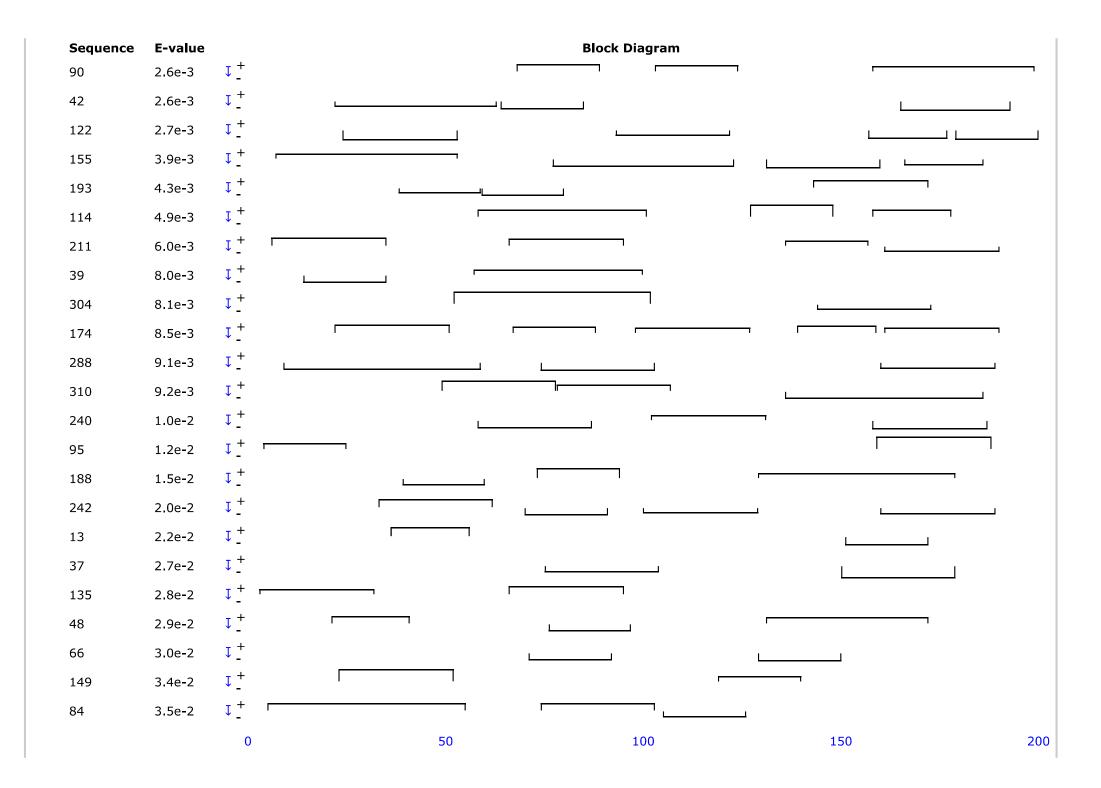


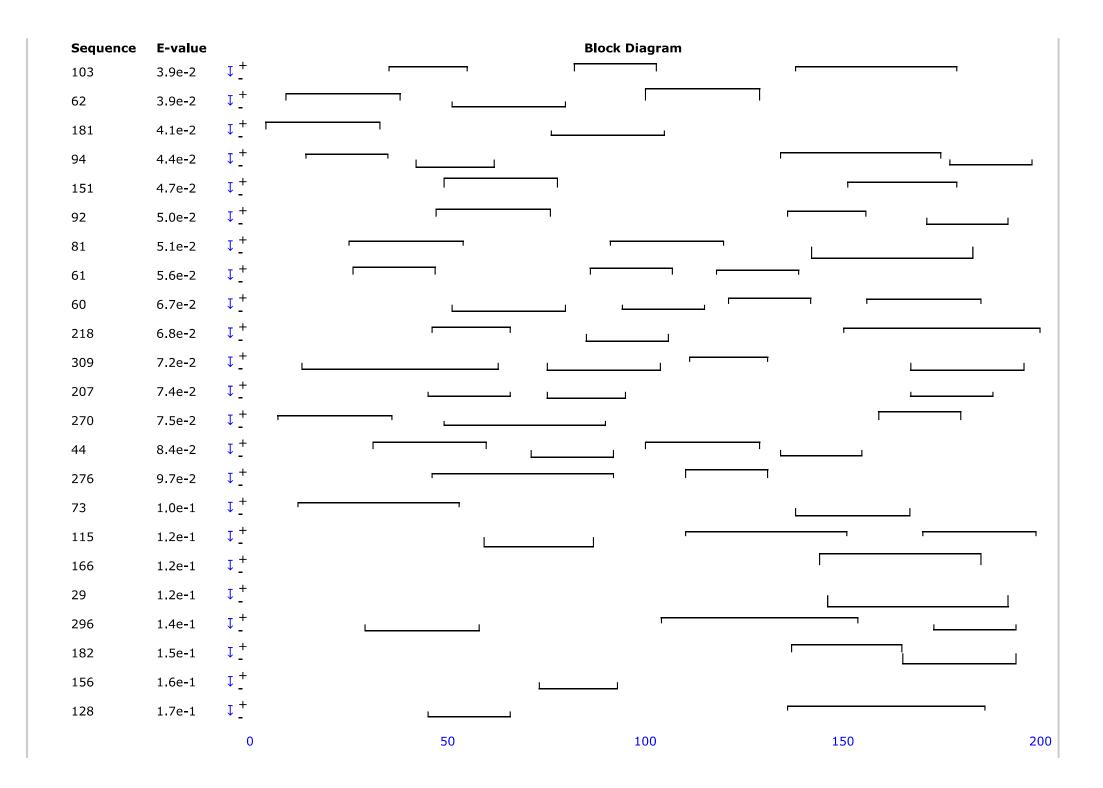


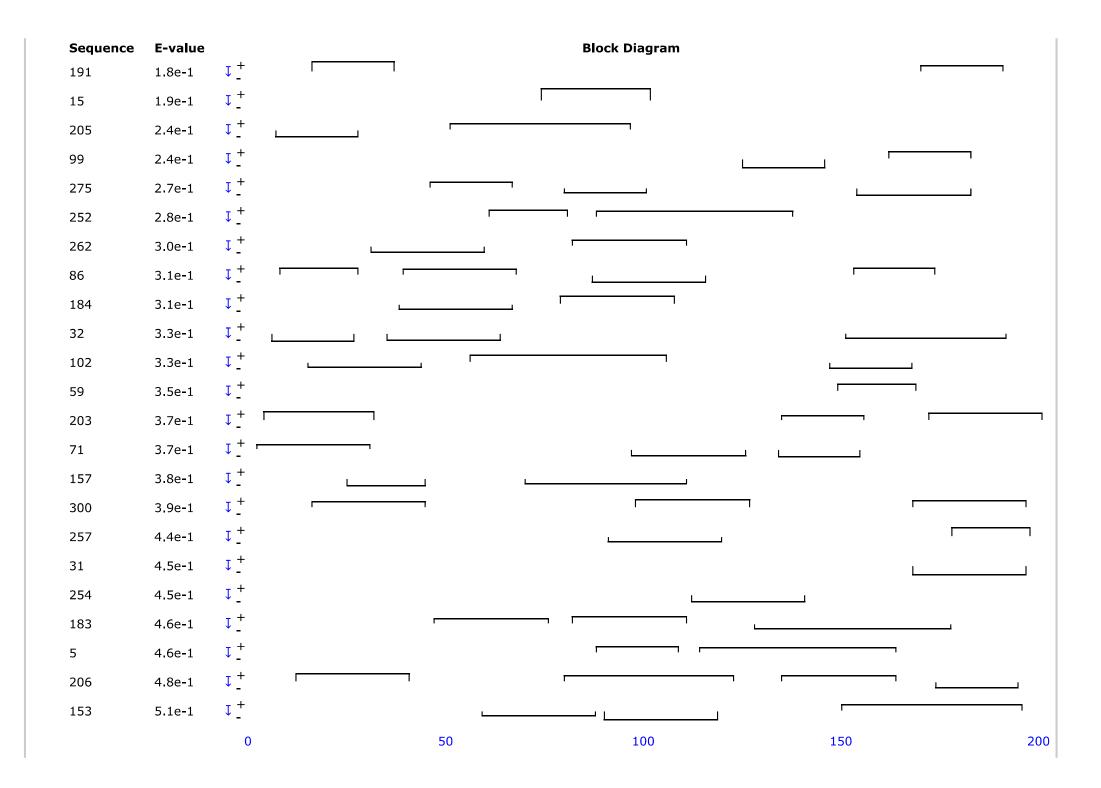


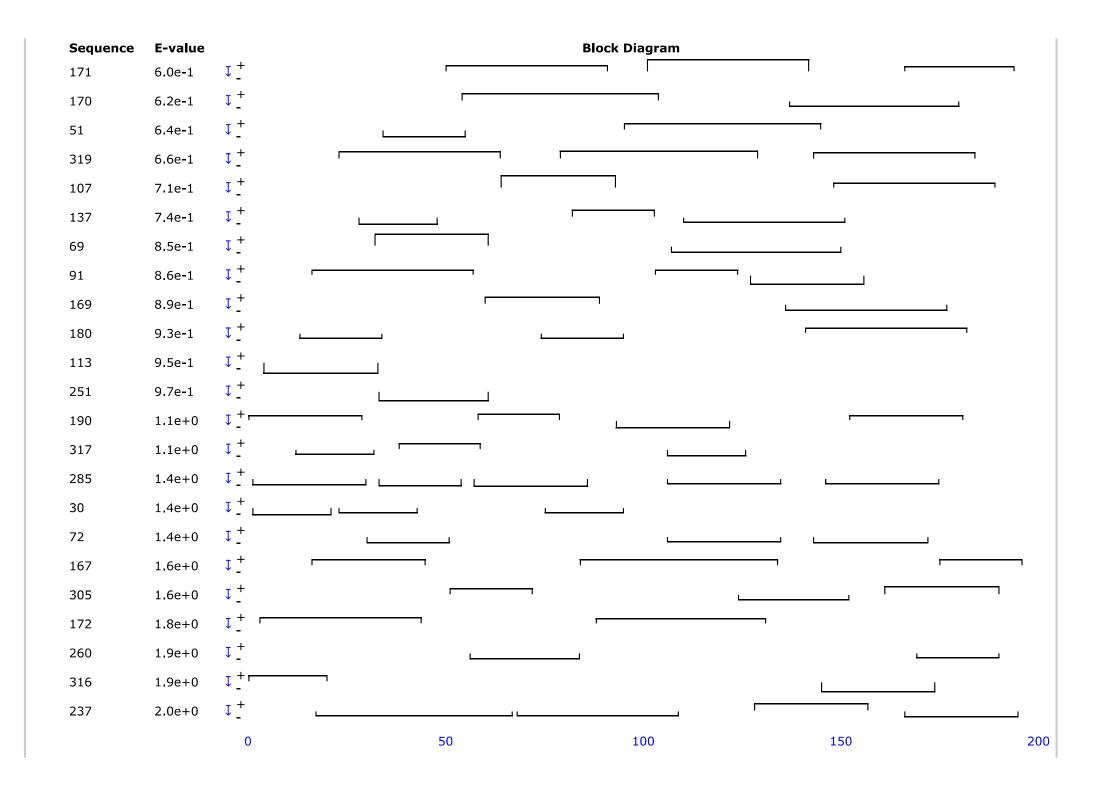


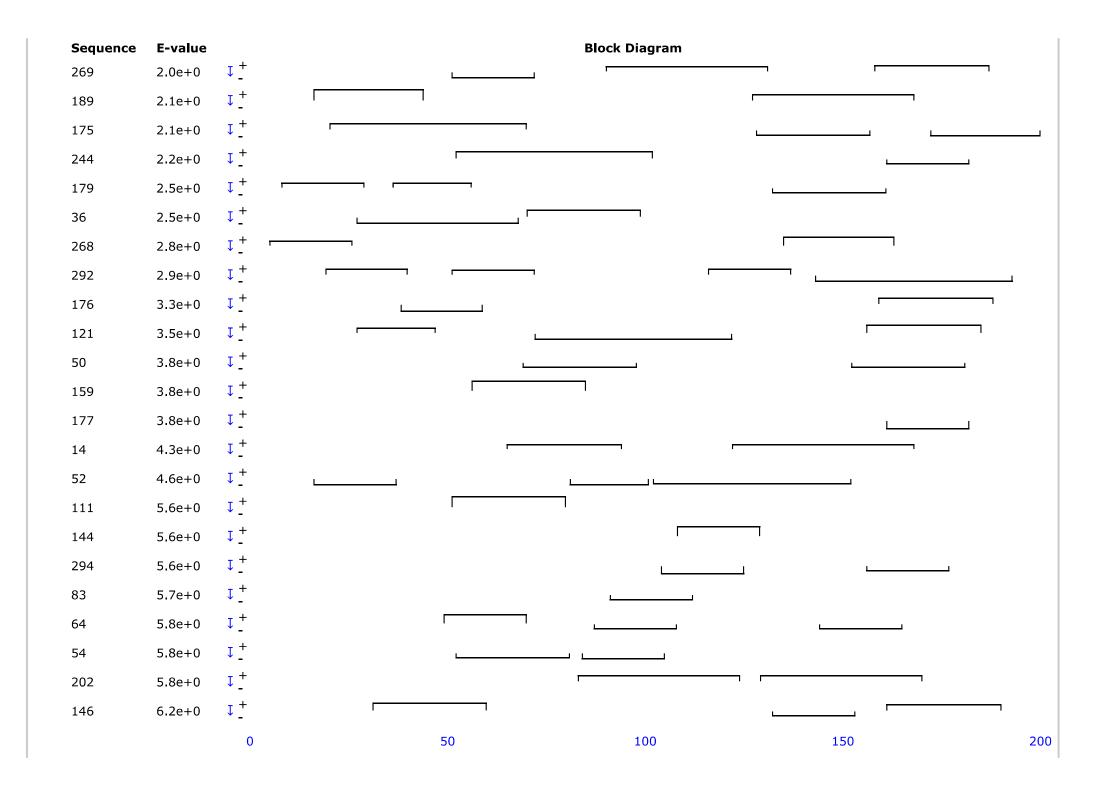


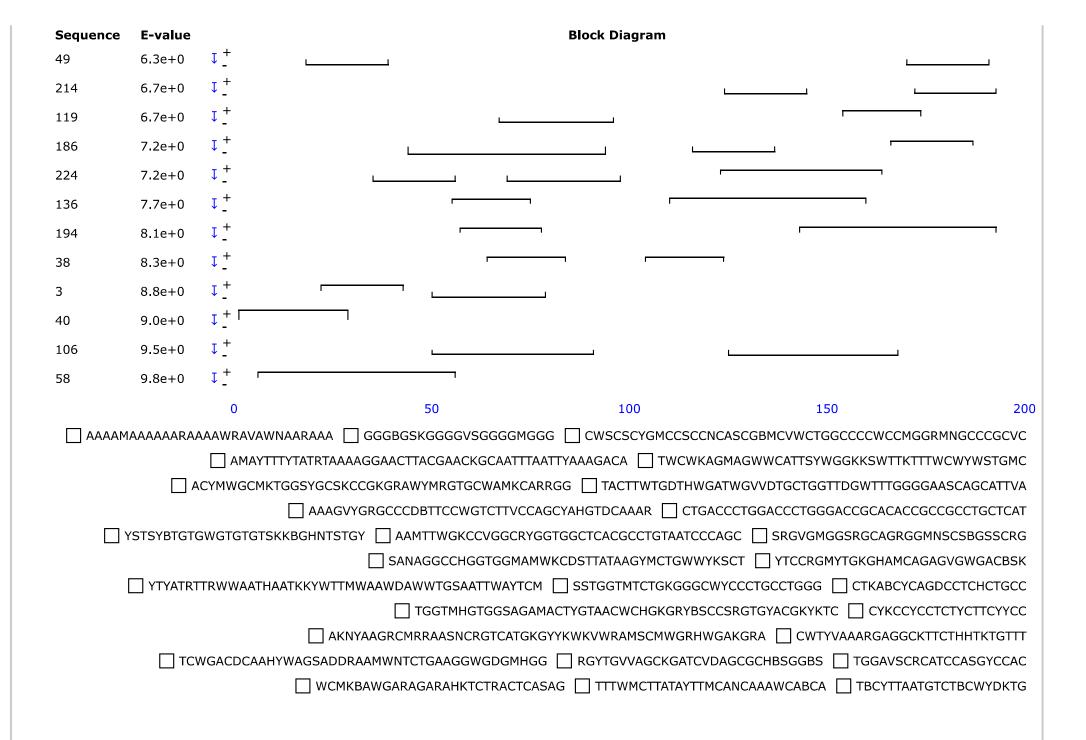












☐ AAACCCADCVCGAACBAGRGAHGAVVTTWCCTTGTTCAWCCCAKTCCHBA ☐ ATADTAWTGMNKRAMRGAGTRAAYANAWGARRKVRTADADW
☐ GAGAGHGSATTCAGMGHAAVCADAGGWVAYCTTCTTVGTKACGAAGA

Inputs & Settings

Alphabet

Background Source: an old version of the NCBI non-redundant database

Name	Bg.				Bg.	Name
Adenine	0.274262	A	~	T	0.274262	Thymine
Cytosine	0.22521	C	~	G	0.22521	Guanine

Sequences

The following sequence database was supplied to MAST.

Database	Sequence Count	Residue Count	Last Modified
SS_dmp_cpg_sequences.fasta	329	66129	Sat Jun 21 04:18:58 2025
Total	329	66129	

Motifs

The following motif database was supplied to MAST.

Database Last Modified meme.xml Sat Jun 21 06:37:19 2025

Other Settings

Adjust Hit p-value

Strand HandlingThe result of scanning both strands is **combined**. When matches overlap the non-overlapping combination with the best p-value is shown.

Max Correlation
Remove Correlated
Max Sequence Evalue

Motifs with a correlation greater than **0.6** are marked for potential removal dependant on the --remcorr option.

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

Sequences with an *E*-value less than **10** are included in the output.

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

Displayed Hits Displayed Weak Hits

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

Ran in 0.553 seconds on Sat Jun 21 06:37:20 2025 on noble-meme.grid.gs.washington.edu