



For further information on how to interpret these results or to get a copy of the MEME software please access <http://meme.nbcr.net>.

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

Shobhit Gupta, JA Stamatoyannopolous, Timothy Bailey and William Stafford Noble, "Quantifying similarity between motifs", *Genome Biology*, 8(2):R24, 2007. [\[full text\]](#)

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QUERY MOTIFS

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Database	Name	Alt. Name	Preview	Matches	
motif group4	motif_10_25	22- GTCTTCAGGGAC		7	MA0154 MA0364
motif group4	motif_Train1_19	22- GTCTTCAGGGAC		5	MA0154 MA0364
motif group4	motif_Train3_18	20- GTCTTCAGGGAC		6	MA0154 MA0364
motif group4	motif_Train4_22	20- GTCTTCAGGGAC		5	MA0154 MA0364
motif group4	motif_Train5_21	20- GTCTTCAGGGAC		6	MA0154 MA0026
motif group4	motif_Train6_26	22- GTCTTCAGGGAC		7	MA0154 MA0364
motif group4	motif_Train7_24	23- TCTTCAGGGA		6	MA0154 MA0364
motif group4	motif_Train8_23	23- CKTCAGGGAY		8	MA0364 UP0006
motif group4	motif_Train9_20	21- GTGTCTTCAGGG		5	MA0154 MA0364

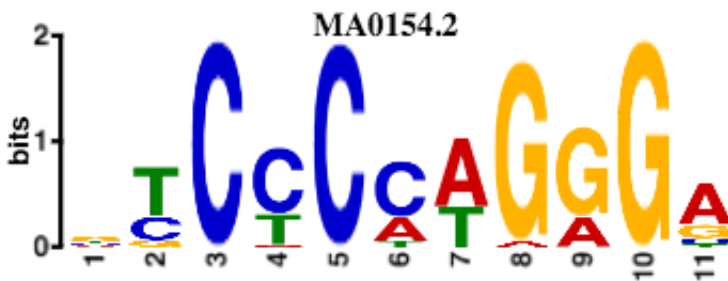



TARGET DATABASES

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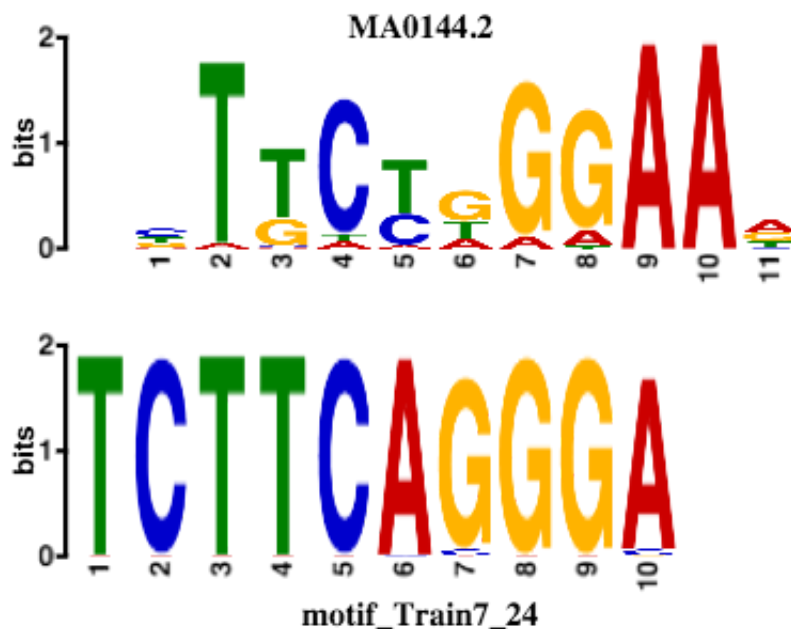
Database	Used	Matched
uniprobe mouse	386	6
JASPAR CORE 2014	593	8

MATCHES TO MOTIF_Train7_24 (23-TCTTCAGGGA)

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Summary	Alignment
<p>Name MA0154.2 (EBF1)</p> <p>Database JASPAR CORE 2014</p> <p>p-value 2.95e-04</p> <p>E-value 2.89e-01</p> <p>q-value 5.78e-01</p> <p>Overlap 10</p> <p>Offset 1</p> <p>Orientation Normal</p> <p>Show logo download options</p>	 <p>MA0154.2</p>  <p>motif_Train7_24</p>
<p>Name MA0364.1 (REI1)</p> <p>Database JASPAR CORE 2014</p> <p>p-value 1.21e-03</p> <p>E-value 1.18e+00</p> <p>q-value 8.20e-01</p> <p>Overlap 7</p> <p>Offset -3</p> <p>Orientation Reverse Complement</p> <p>Show logo download options</p>	 <p>MA0364.1</p>  <p>motif_Train7_24</p>
<p>Name MA0144.2 (STAT3)</p> <p>Database JASPAR CORE</p>	

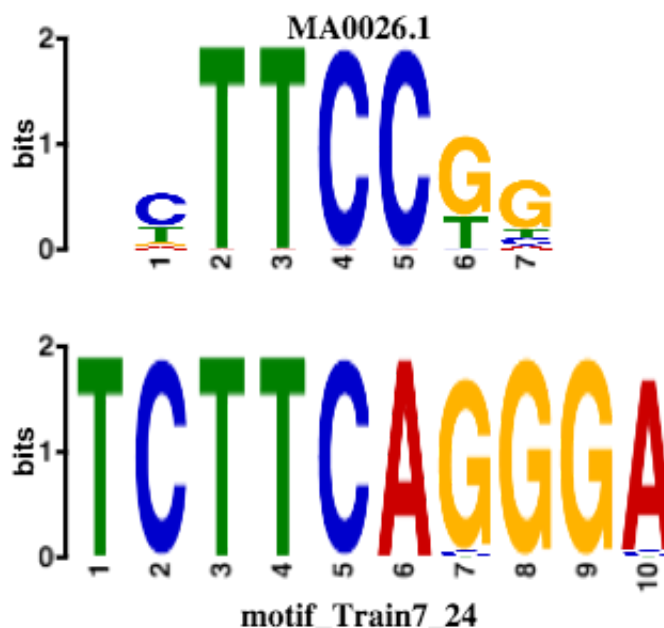
Database	2014
<i>p</i>-value	1.26e-03
<i>E</i>-value	1.23e+00
<i>q</i>-value	8.20e-01
Overlap	9
Offset	-1
Orientation	Normal
Show logo download options	



Summary

Name	MA0026.1 (Eip74EF)
Database	JASPAR CORE 2014
<i>p</i>-value	2.16e-03
<i>E</i>-value	2.12e+00
<i>q</i>-value	1.00e+00
Overlap	7
Offset	-1
Orientation	Reverse Complement
Show logo download options	

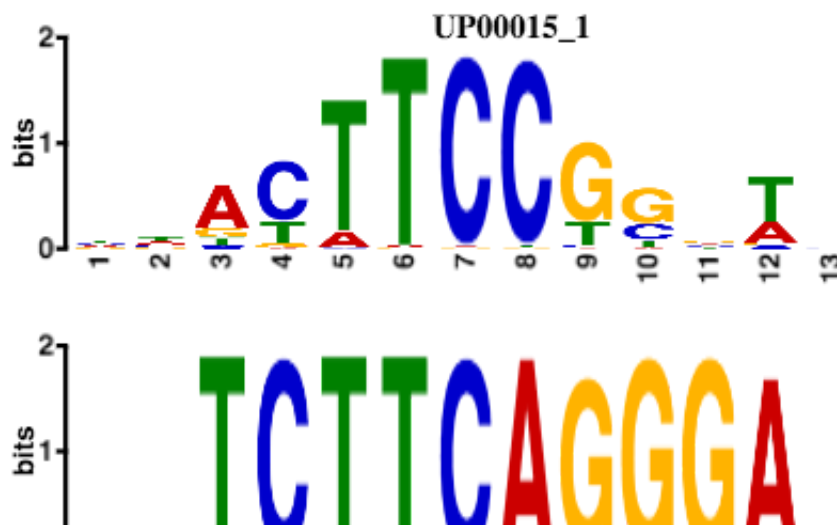
Alignment



Summary

Name	UP00015_1 (Ehf_primary)
Database	uniprobe mouse
<i>p</i>-value	8.38e-03
<i>E</i>-value	8.21e+00
<i>q</i>-value	1.00e+00
Overlap	10
Offset	2
Orientation	Reverse Complement

Alignment



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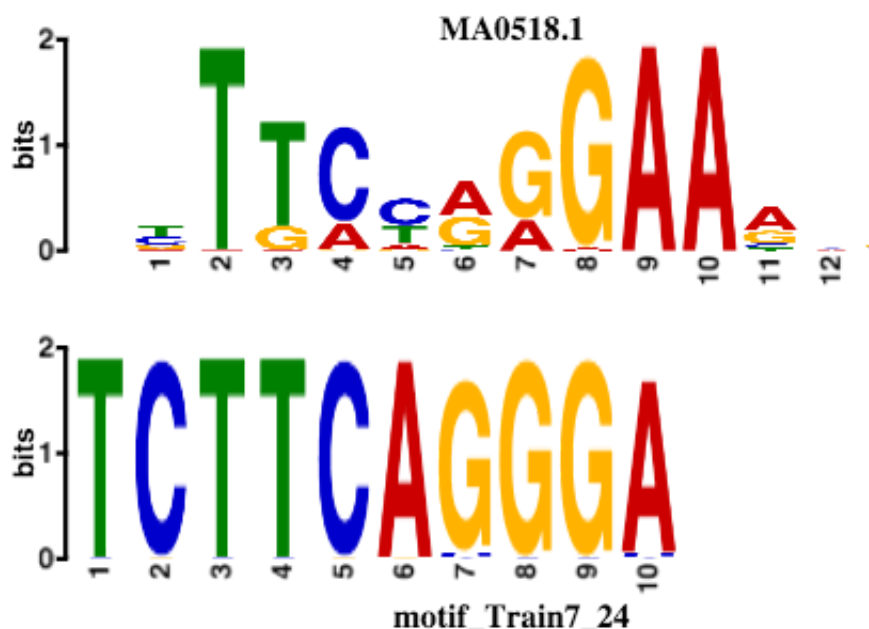

Summary

Name [MA0518.1 \(Stat4\)](#)
Database JASPAR CORE 2014
p-value 8.43e-03
E-value 8.26e+00
q-value 1.00e+00

Overlap 9
Offset -1
Orientation Normal

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Alignment



MATCHES TO MOTIF_10_25 (22-GTCTTCAGGGAC)

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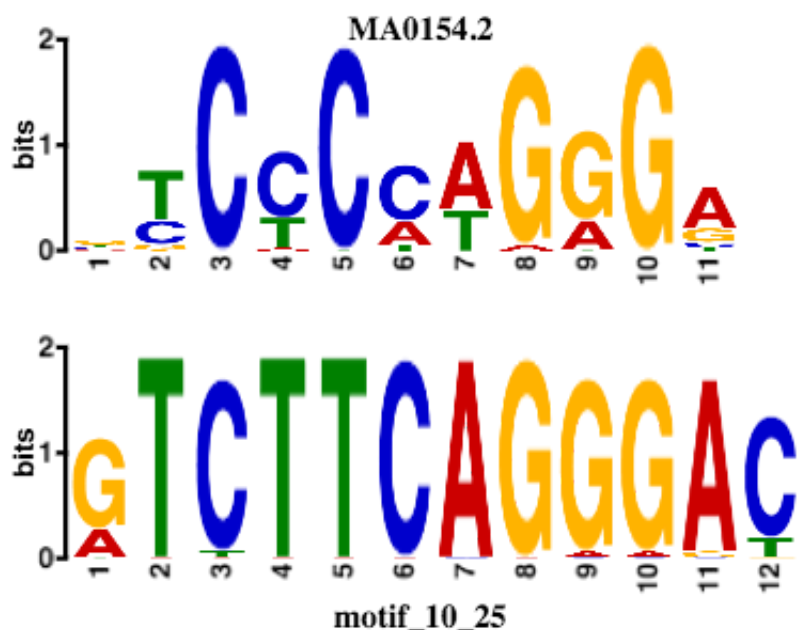
Summary

Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014
p-value 1.86e-04
E-value 1.83e-01
q-value 3.65e-01

Overlap 11
Offset 0
Orientation Normal

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Alignment



Summary

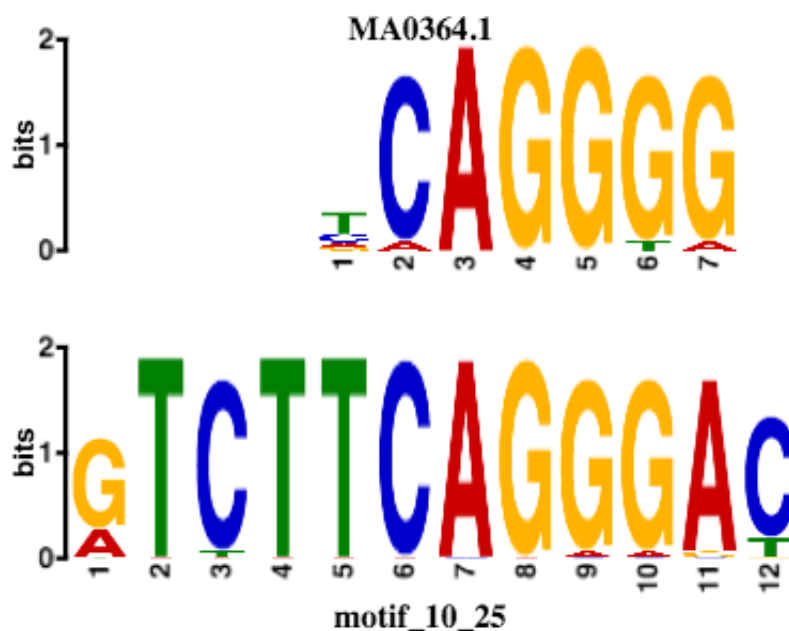
Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014
p-value 1.51e-03

Alignment

E-value 1.48e+00
q-value 1.00e+00

Overlap 7
Offset -4
Orientation Reverse
 Complement

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Summary

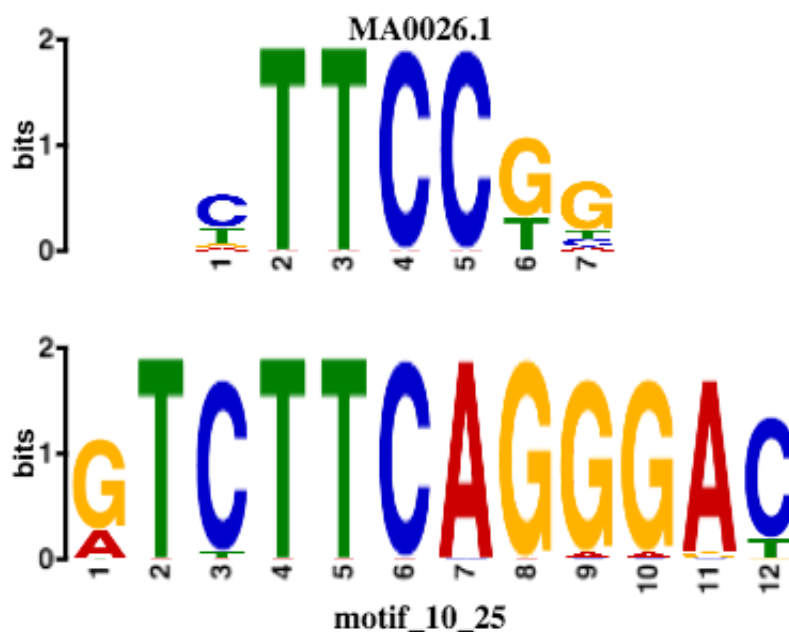
Name [MA0026.1 \(Eip74EF\)](#)
Database JASPAR CORE 2014

p-value 2.99e-03
E-value 2.93e+00
q-value 1.00e+00

Overlap 7
Offset -2
Orientation Reverse
 Complement

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Alignment



Summary

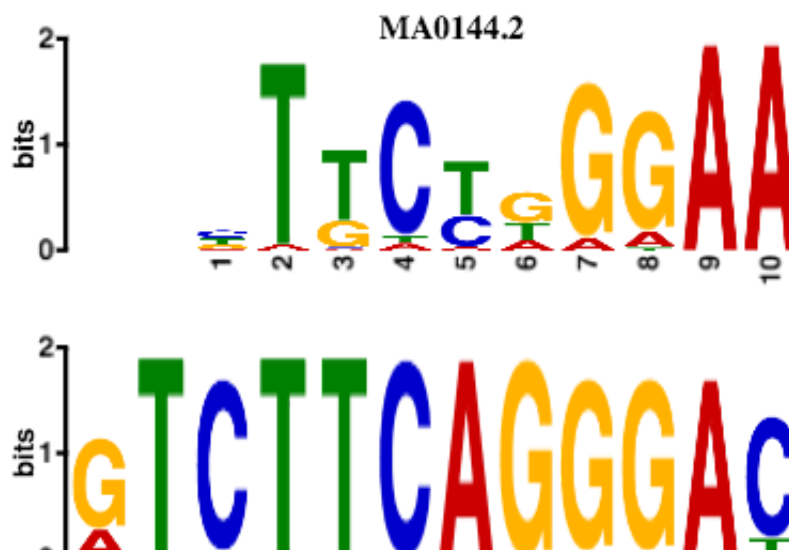
Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014

p-value 4.03e-03
E-value 3.94e+00
q-value 1.00e+00

Overlap 10
Offset -2
Orientation Normal

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Alignment



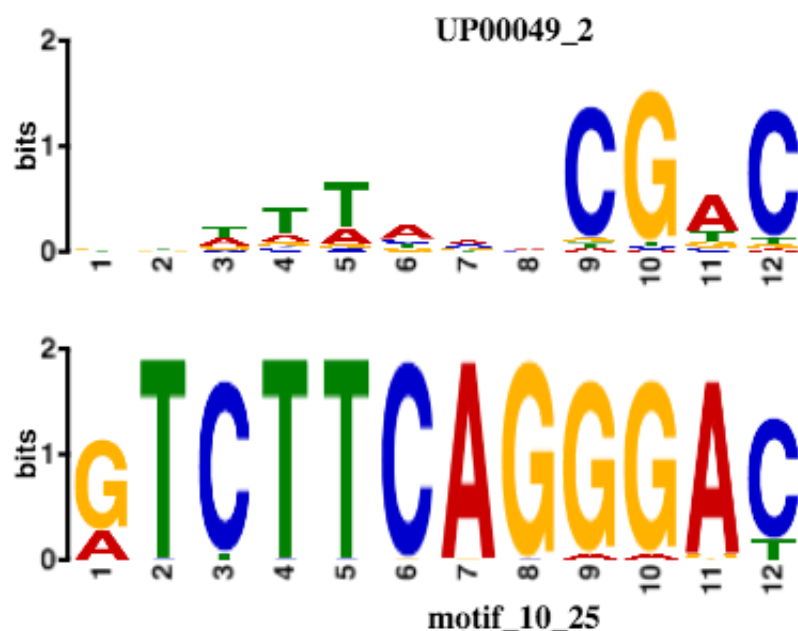


Summary

Name	UP00049_2 (Sp100_secondary)
Database	uniprobe mouse
p-value	6.90e-03
E-value	6.75e+00
q-value	1.00e+00
Overlap	12
Offset	0
Orientation	Reverse Complement

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Alignment

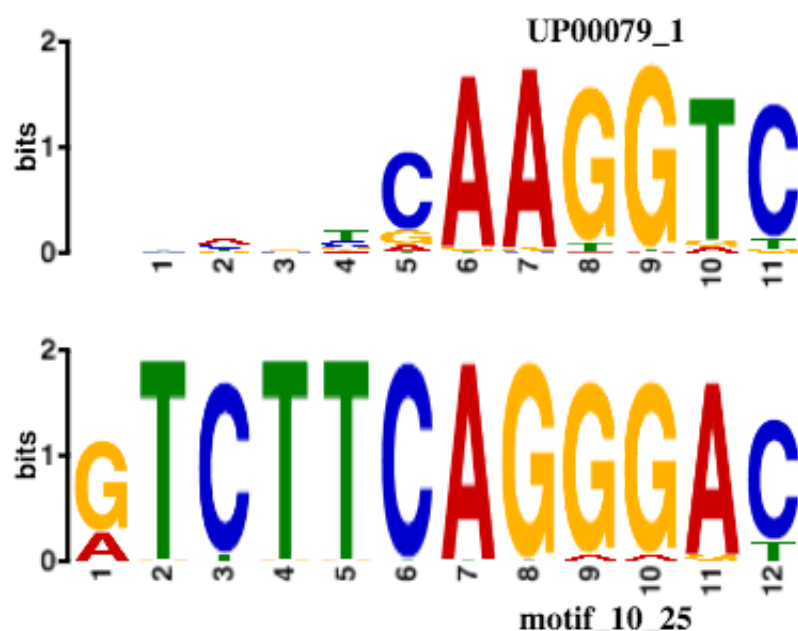


Summary

Name	UP00079_1 (Esrra_primary)
Database	uniprobe mouse
p-value	7.18e-03
E-value	7.03e+00
q-value	1.00e+00
Overlap	11
Offset	-1
Orientation	Normal

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Alignment



Summary

Name	UP00029_2 (Tbp_secondary)
Database	uniprobe mouse
p-value	9.55e-03
E-value	9.35e+00
q-value	1.00e+00

Alignment



q-value 1.00e+00

Overlap 12

Offset 2

Orientation Normal

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MATCHES TO MOTIF_Train1_19 (22-GTCTTCAGGGAC)

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Summary

Name [MA0154.2 \(EBF1\)](#)

Database JASPAR CORE 2014

p-value 8.44e-05

E-value 8.27e-02

q-value 1.65e-01

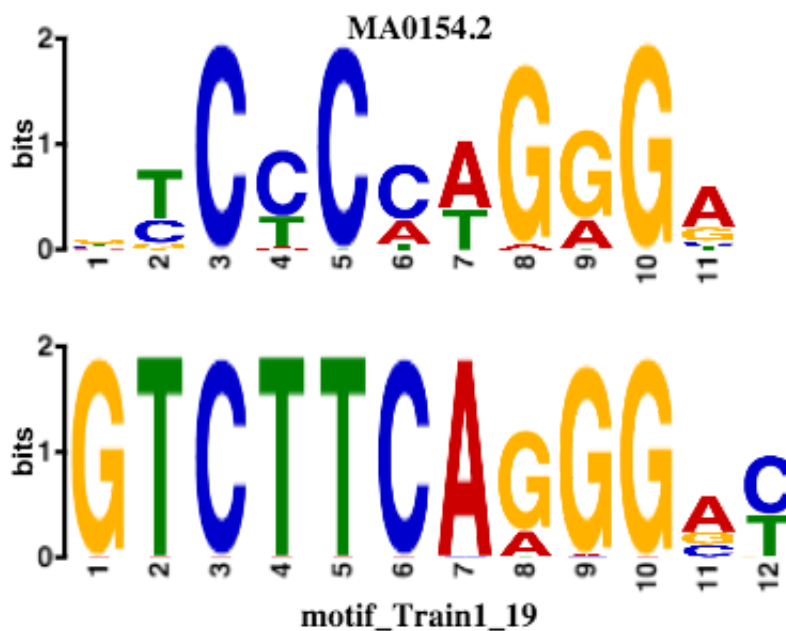
Overlap 11

Offset 0

Orientation Normal

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Alignment



Summary

Name [MA0364.1 \(REI1\)](#)

Database JASPAR CORE 2014

p-value 1.40e-03

E-value 1.37e+00

q-value 1.00e+00

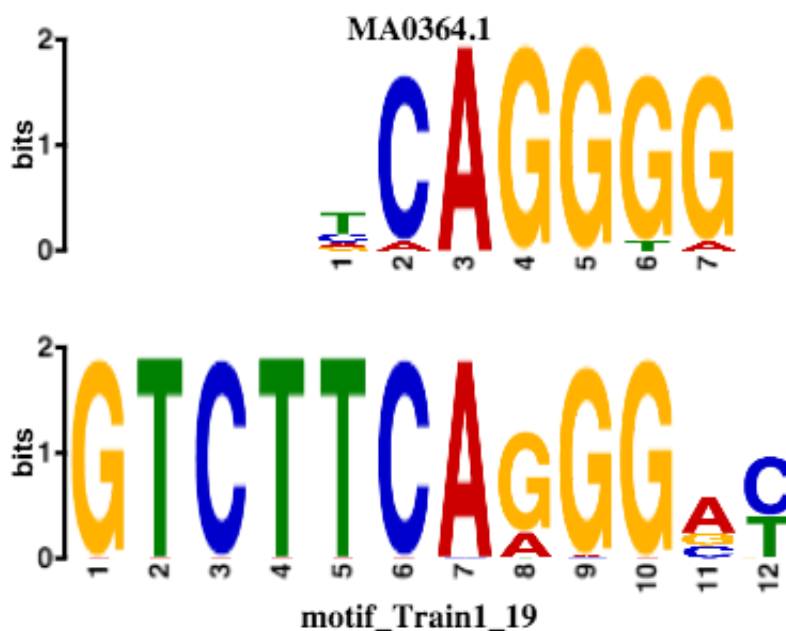
Overlap 7

Offset -4

Orientation Reverse Complement

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Alignment

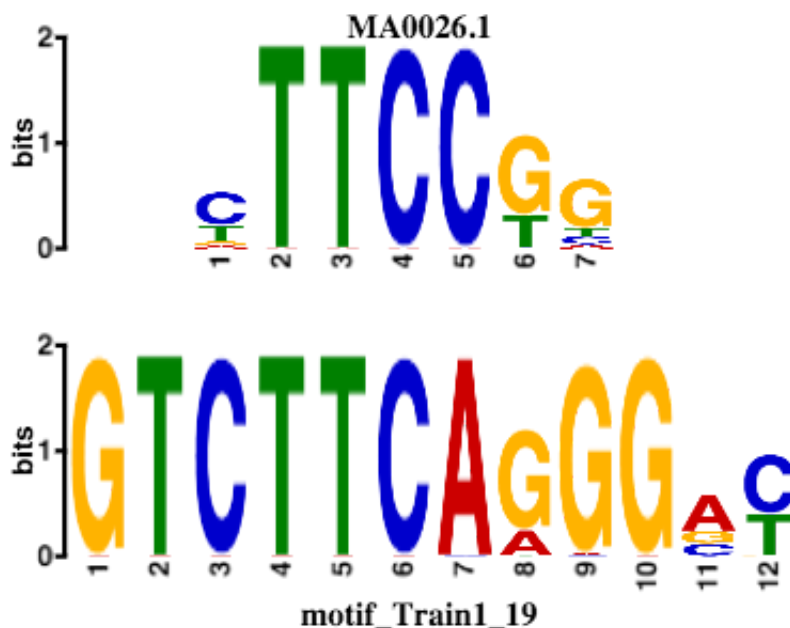


Summary

Alignment

Name	MA0026.1 (Eip74EF)
Database	JASPAR CORE 2014
p-value	3.87e-03
E-value	3.79e+00
q-value	1.00e+00
Overlap	7
Offset	-2
Orientation	Reverse Complement

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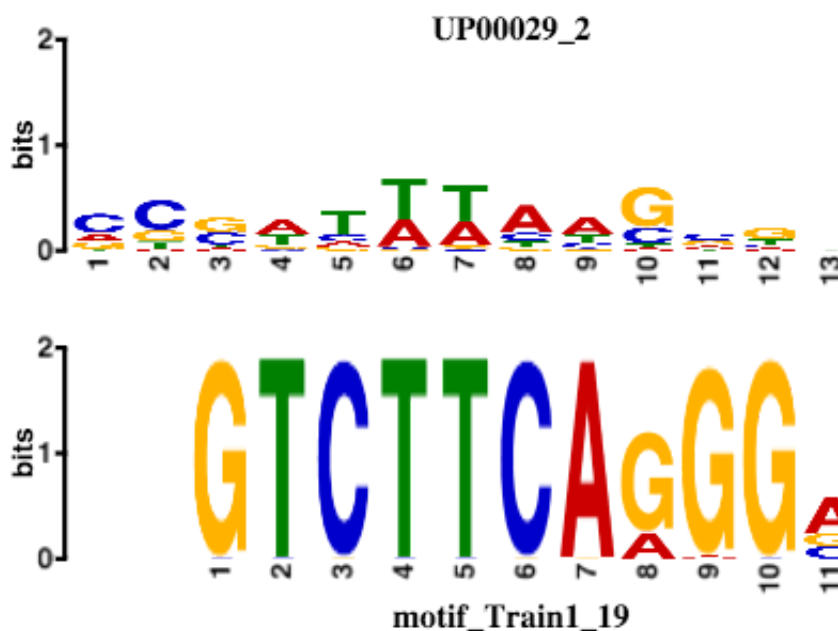


Summary

Alignment

Name	UP00029_2 (Tbp_secondary)
Database	uniprobe mouse
p-value	8.21e-03
E-value	8.04e+00
q-value	1.00e+00
Overlap	12
Offset	2
Orientation	Normal

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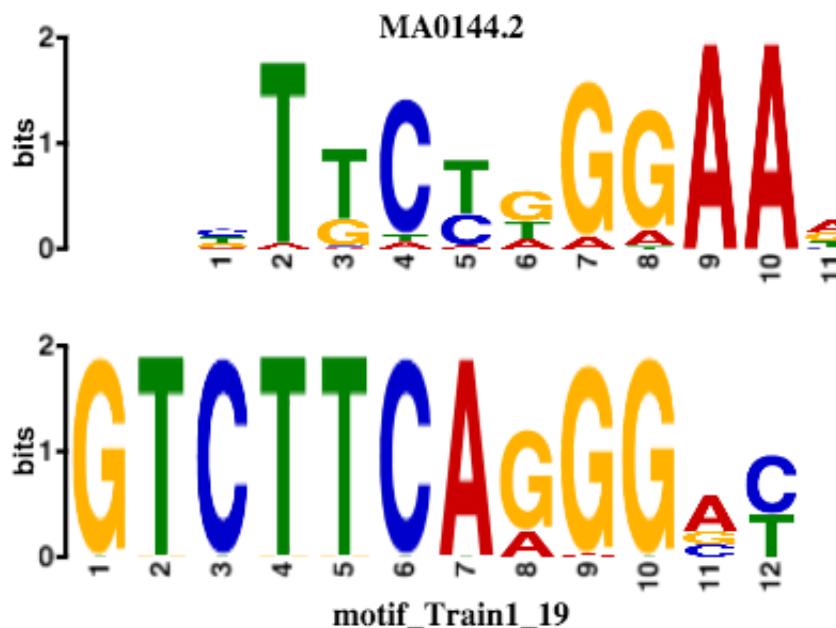


Summary

Alignment

Name	MA0144.2 (STAT3)
Database	JASPAR CORE 2014
p-value	9.00e-03
E-value	8.81e+00
q-value	1.00e+00
Overlap	10
Offset	-2
Orientation	Normal

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MATCHES TO MOTIF_Train5_21 (20-GTCTTCAGGGAC)

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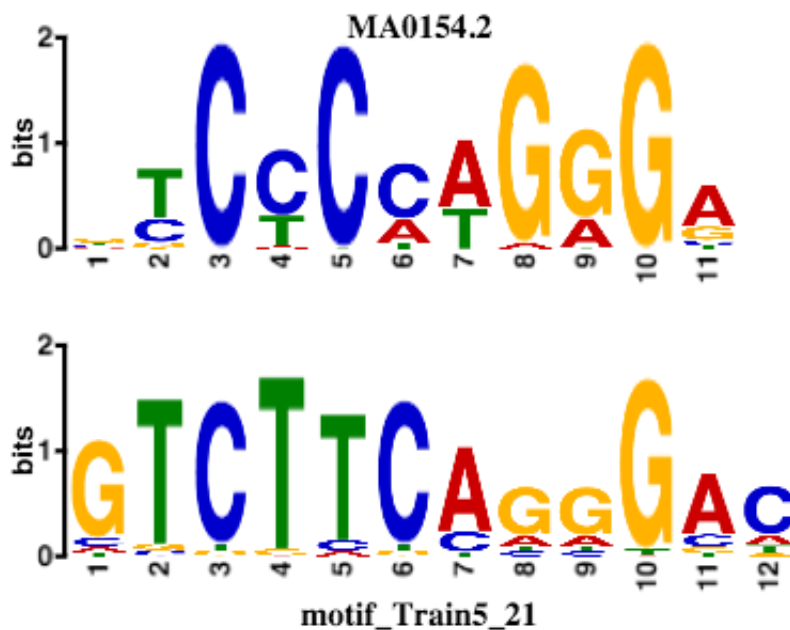
Summary

Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014
p-value 8.66e-05
E-value 8.48e-02
q-value 1.70e-01

Overlap 11
Offset 0
Orientation Normal

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Alignment



Summary

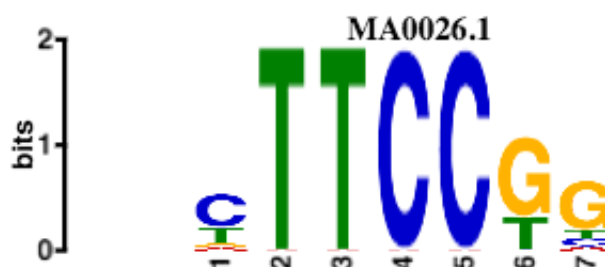
Name [MA0026.1 \(Eip74EF\)](#)
Database JASPAR CORE 2014
p-value 2.15e-03
E-value 2.10e+00
q-value 1.00e+00

Overlap 7

Alignment

Offset -2
Orientation Reverse
 Complement

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Summary

Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014
p-value 2.51e-03
E-value 2.46e+00
q-value 1.00e+00

Overlap 7
Offset -4
Orientation Reverse
 Complement
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Alignment

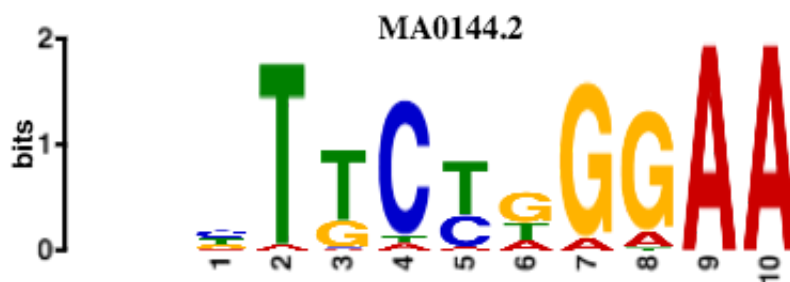


Summary

Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014
p-value 3.12e-03
E-value 3.06e+00
q-value 1.00e+00

Overlap 10
Offset -2
Orientation Normal
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Alignment



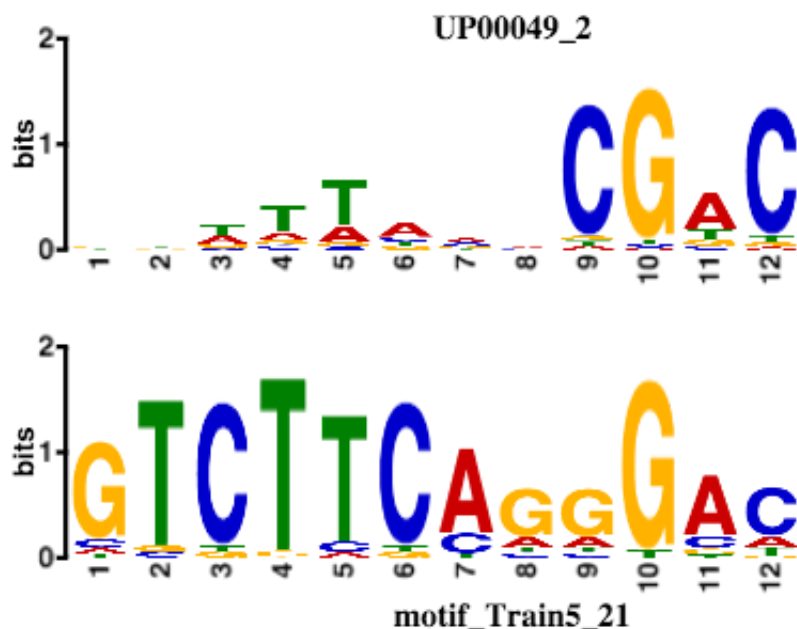


Summary

Alignment

Name	UP00049_2 (Sp100_secondary)
Database	uniprobe mouse
p-value	7.11e-03
E-value	6.96e+00
q-value	1.00e+00
Overlap	12
Offset	0
Orientation	Reverse Complement

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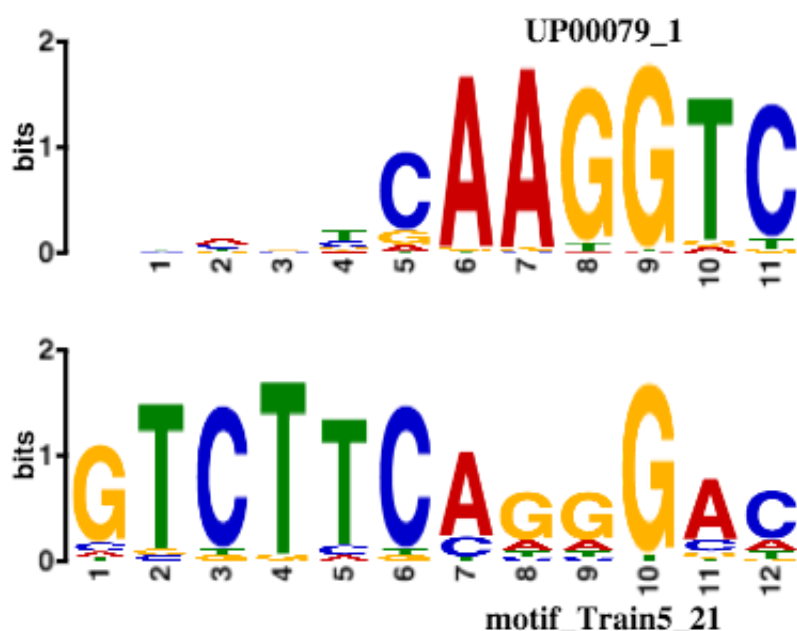


Summary

Alignment

Name	UP00079_1 (Esrra_primary)
Database	uniprobe mouse
p-value	8.41e-03
E-value	8.23e+00
q-value	1.00e+00
Overlap	11
Offset	-1
Orientation	Normal

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MATCHES TO MOTIF_TRAIN6_26 (22-GTCTTCAGGGAC)

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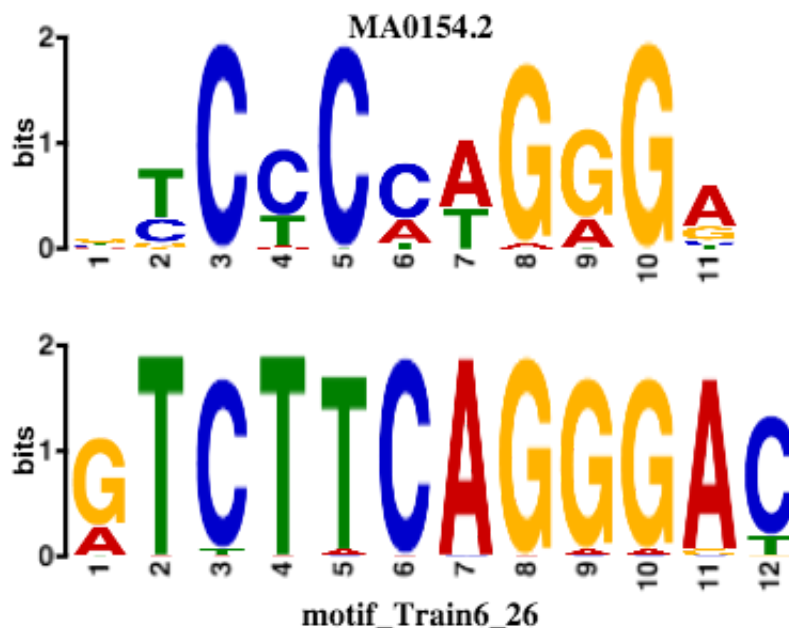
Summary

Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014
p-value 1.87e-04
E-value 1.83e-01
q-value 3.67e-01

Overlap 11
Offset 0
Orientation Normal

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Alignment



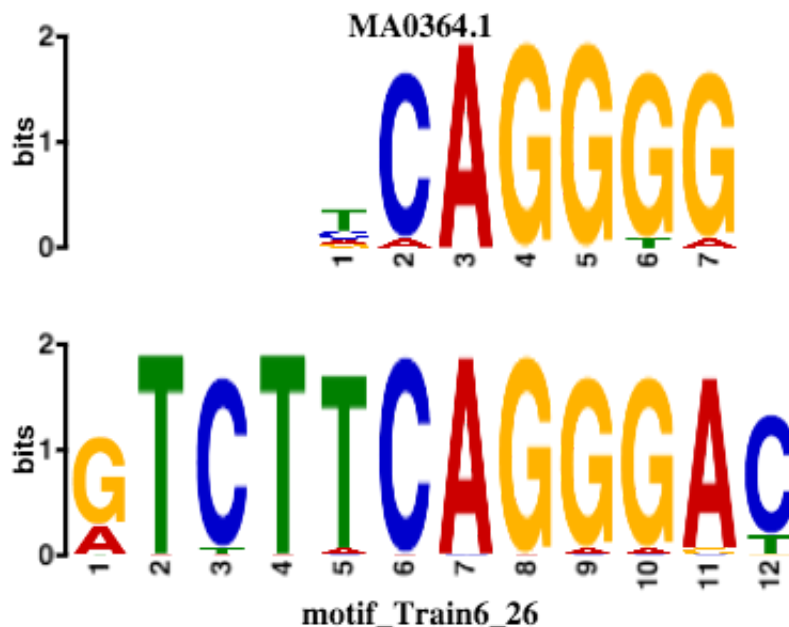
Summary

Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014
p-value 1.55e-03
E-value 1.52e+00
q-value 1.00e+00

Overlap 7
Offset -4
Orientation Reverse Complement

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Alignment

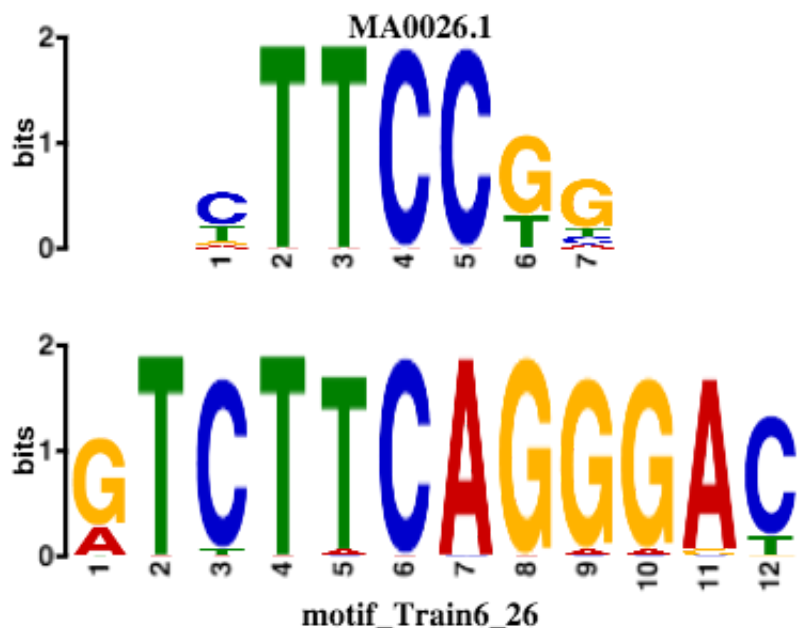


Summary

Name [MA0026.1 \(Eip74EF\)](#)
Database JASPAR CORE 2014
p-value 3.08e-03
E-value 3.01e+00
q-value 1.00e+00

Overlap 7
Offset -2
Orientation Reverse Complement

Alignment

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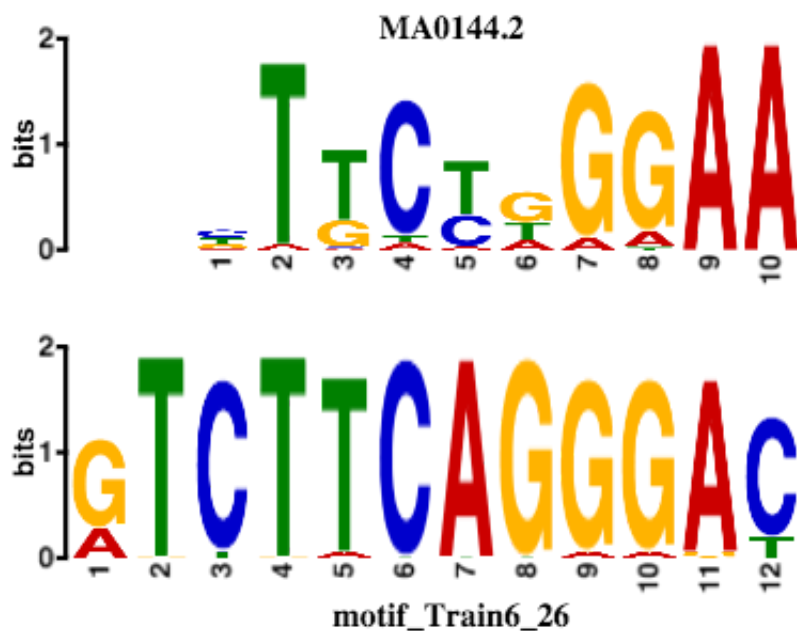
Summary

Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014
p-value 4.05e-03
E-value 3.96e+00
q-value 1.00e+00

Overlap 10
Offset -2
Orientation Normal

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Alignment

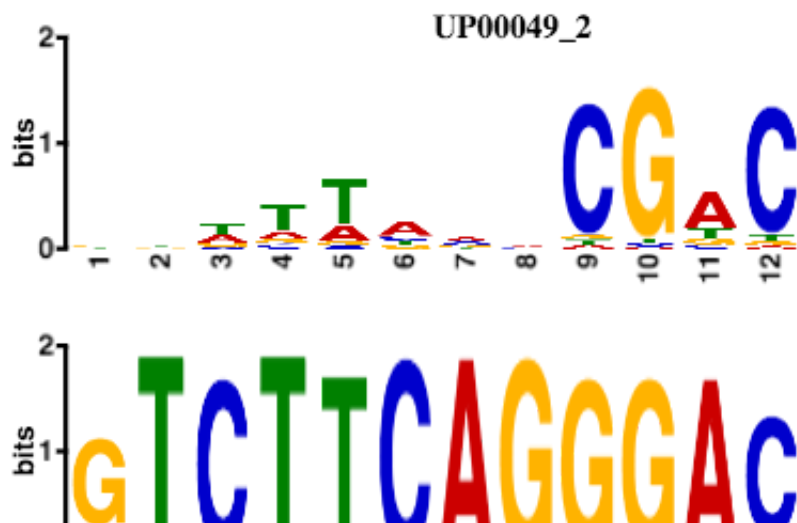


Summary

Name [UP00049_2 \(Sp100_secondary\)](#)
Database uniprobe mouse
p-value 6.89e-03
E-value 6.74e+00
q-value 1.00e+00

Overlap 12
Offset 0
Orientation Reverse Complement

Alignment



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Summary

Name [UP00079_1](#)
(Esrra_primary)

Database uniprobe mouse

p-value 7.16e-03

E-value 7.01e+00

q-value 1.00e+00

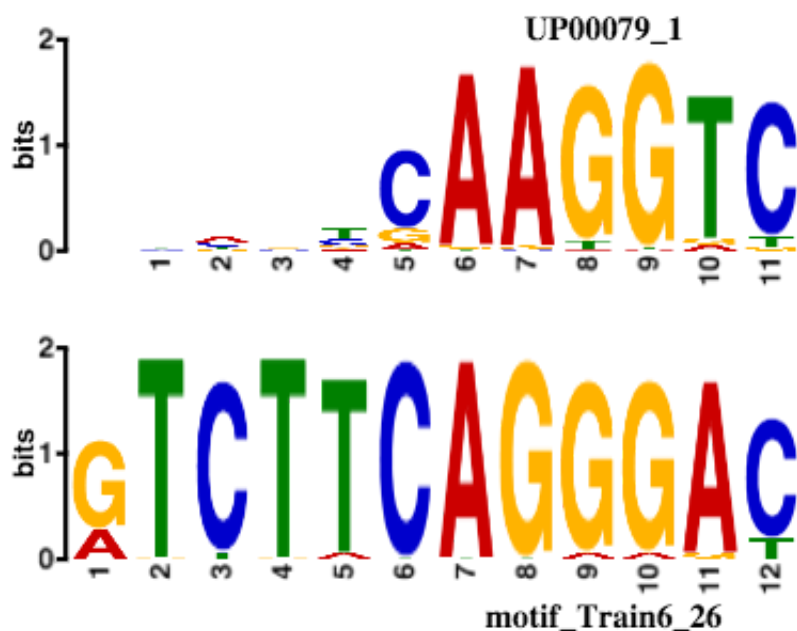
Overlap 11

Offset -1

Orientation Normal

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Alignment



Summary

Name [UP00029_2](#)
(Tbp_secondary)

Database uniprobe mouse

p-value 9.54e-03

E-value 9.34e+00

q-value 1.00e+00

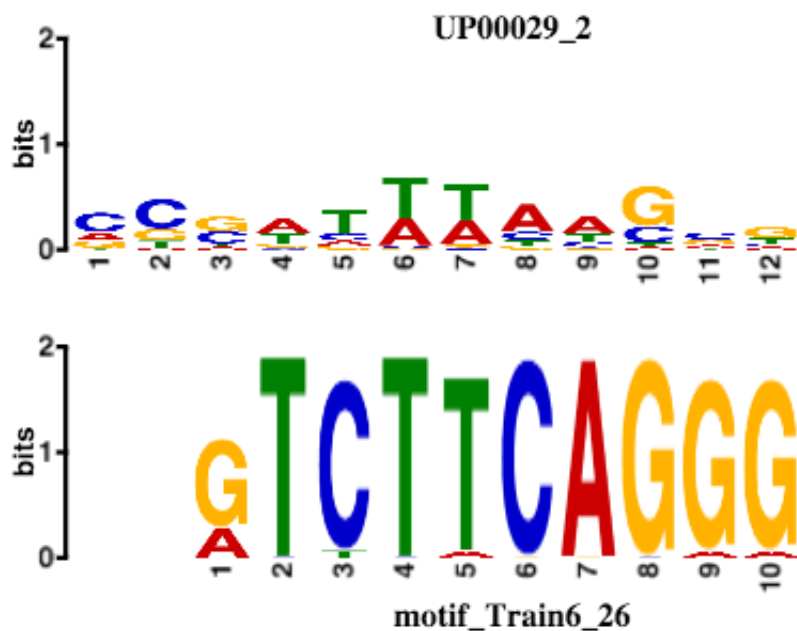
Overlap 12

Offset 2

Orientation Normal

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MATCHES TO MOTIF_Train4_22 (20-GTCTTCAGGGAC)

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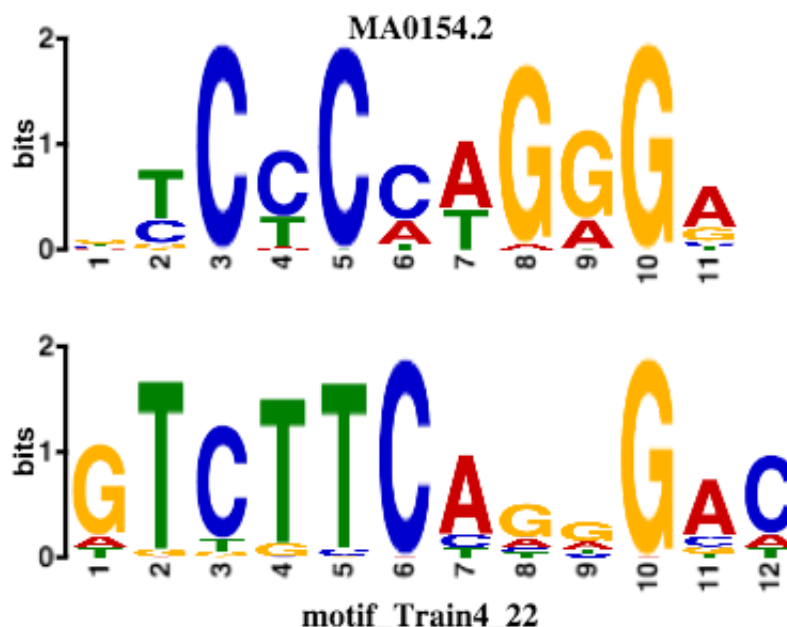
Summary

Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014
p-value 8.94e-05
E-value 8.75e-02
q-value 1.75e-01

Overlap 11
Offset 0
Orientation Normal

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Alignment



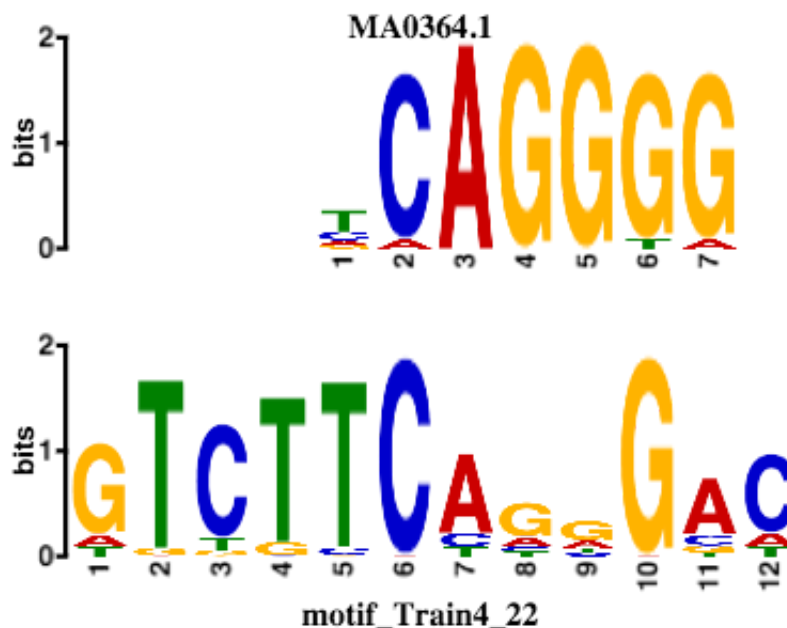
Summary

Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014
p-value 2.44e-03
E-value 2.39e+00
q-value 1.00e+00

Overlap 7
Offset -4
Orientation Reverse Complement

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Alignment



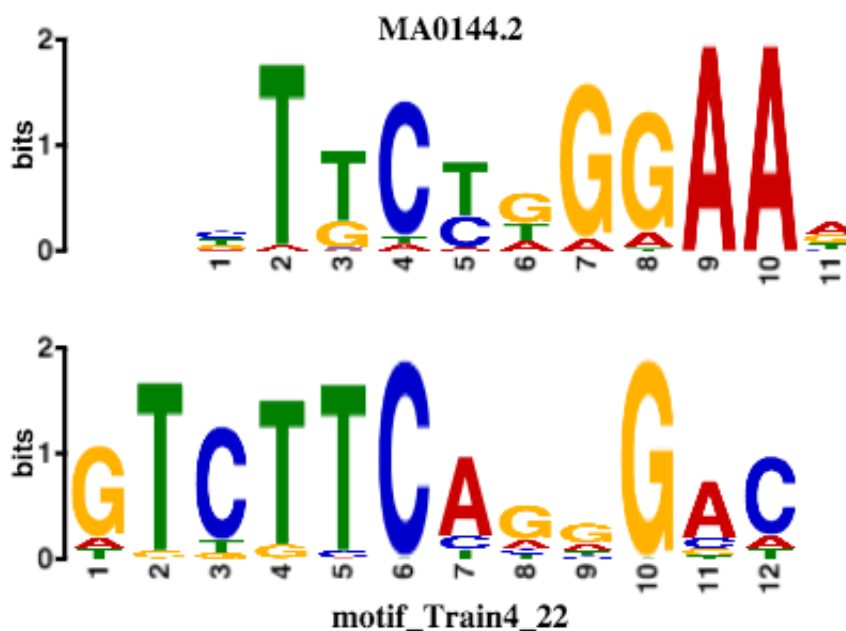
Summary

Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014
p-value 2.69e-03
E-value 2.63e+00
q-value 1.00e+00

Alignment

Overlap 10
Offset -2
Orientation Normal

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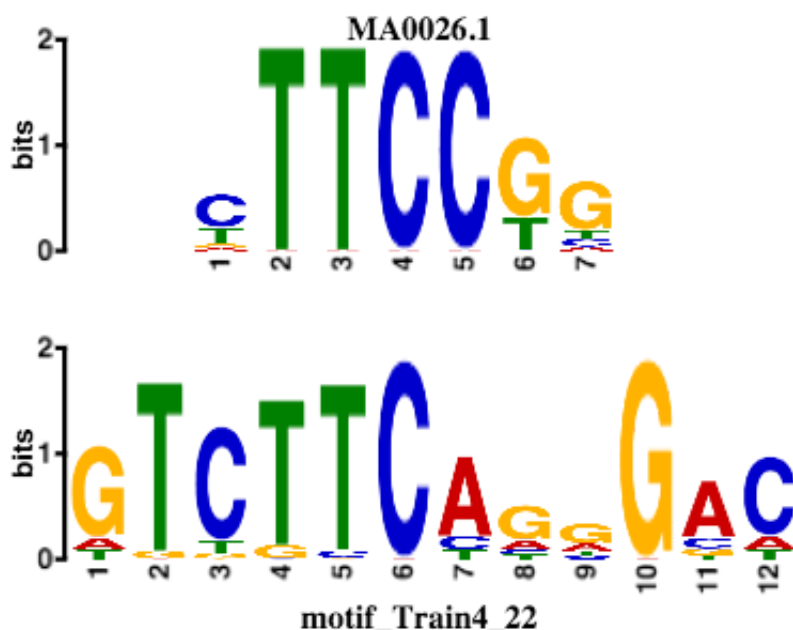
Summary

Name [MA0026.1](#)
[\(Eip74EF\)](#)
Database JASPAR CORE
 2014
p-value 3.34e-03
E-value 3.27e+00
q-value 1.00e+00

Overlap 7
Offset -2
Orientation Reverse
 Complement

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Alignment



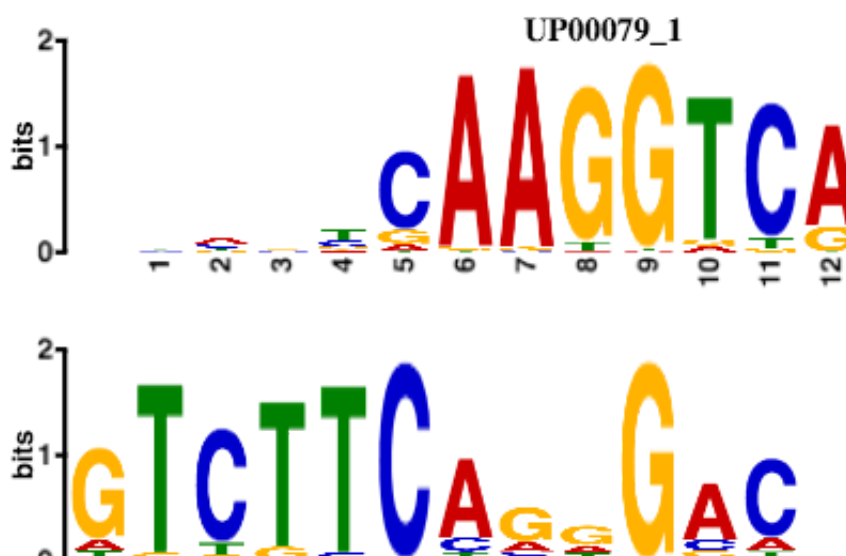
Summary

Name [UP00079_1](#)
[\(Esrra_primary\)](#)
Database uniprobe
 mouse
p-value 7.55e-03
E-value 7.39e+00
q-value 1.00e+00

Overlap 11
Offset -1
Orientation Normal

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Alignment



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MATCHES TO MOTIF_Train8_23 (23-CKTCAGGGAY)

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Summary

Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014
p-value 6.63e-04
E-value 6.49e-01
q-value 1.00e+00

Overlap 7
Offset -2
Orientation Reverse Complement

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Alignment



Summary

Name [UP00066_1 \(Hnf4a primary\)](#)
Database uniprobe mouse
p-value 1.85e-03
E-value 1.81e+00
q-value 1.00e+00

Overlap 10
Offset 0
Orientation Normal

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Alignment



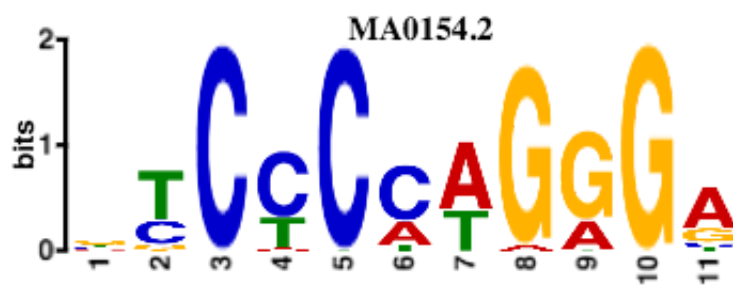
Summary

Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014
p-value 2.11e-03

Alignment

E-value 2.07e+00
q-value 1.00e+00
Overlap 9
Offset 2
Orientation Normal

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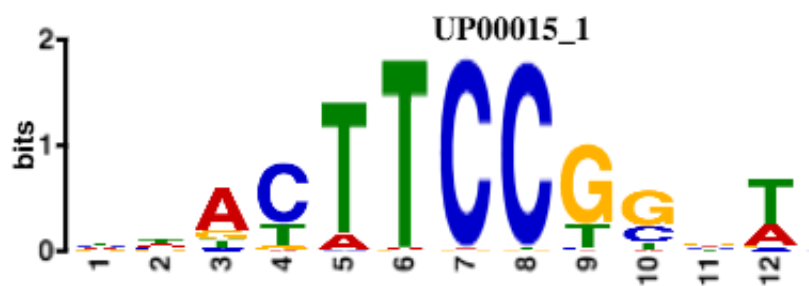
Summary

Name [UP00015_1 \(Ehf_primary\)](#)
Database uniprobe mouse
p-value 2.19e-03
E-value 2.14e+00
q-value 1.00e+00

Overlap 10
Offset 3
Orientation Reverse Complement

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Alignment



Summary

Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014
p-value 2.72e-03
E-value 2.66e+00
q-value 1.00e+00

Overlap 10
Offset 0
Orientation Normal

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Alignment



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TOMTOM

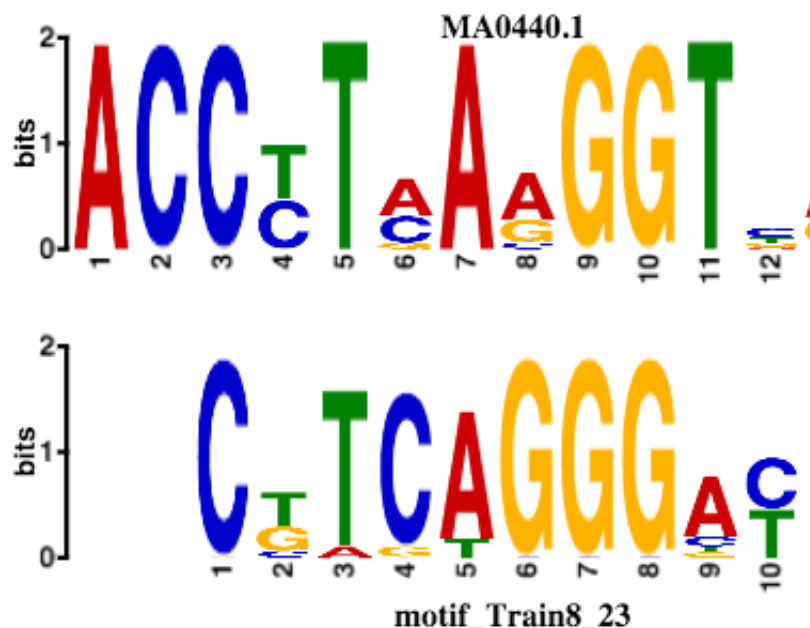
motif_Train8_23

Summary

Name	MA0440.1 (ZAP1)
Database	JASPAR CORE 2014
p-value	4.52e-03
E-value	4.42e+00
q-value	1.00e+00
Overlap	10
Offset	2
Orientation	Normal

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Alignment

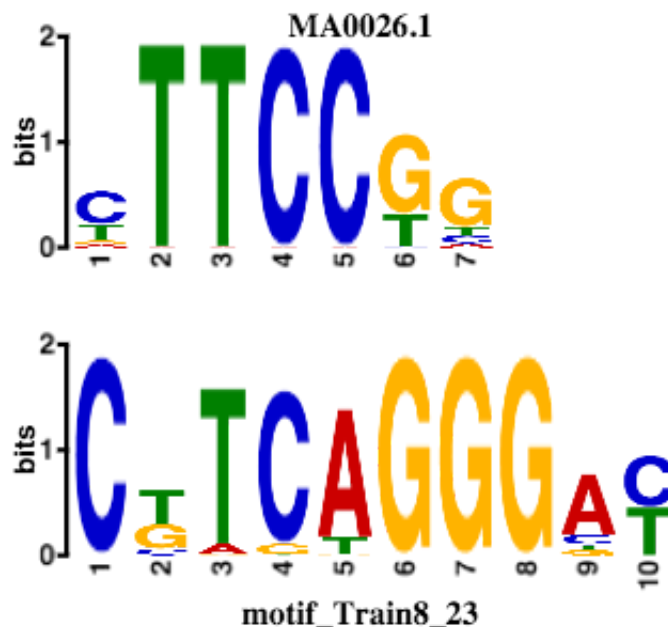


Summary

Name	MA0026.1 (Eip74EF)
Database	JASPAR CORE 2014
p-value	4.59e-03
E-value	4.50e+00
q-value	1.00e+00
Overlap	7
Offset	0
Orientation	Reverse Complement

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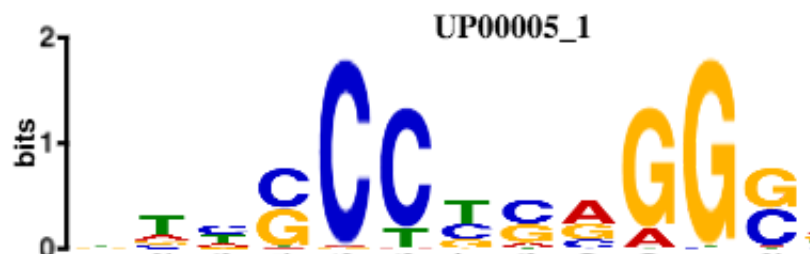
Alignment



Summary

Name	UP00005_1 (Tcfap2a_primary)
Database	uniprobe mouse
p-value	7.35e-03
E-value	7.19e+00

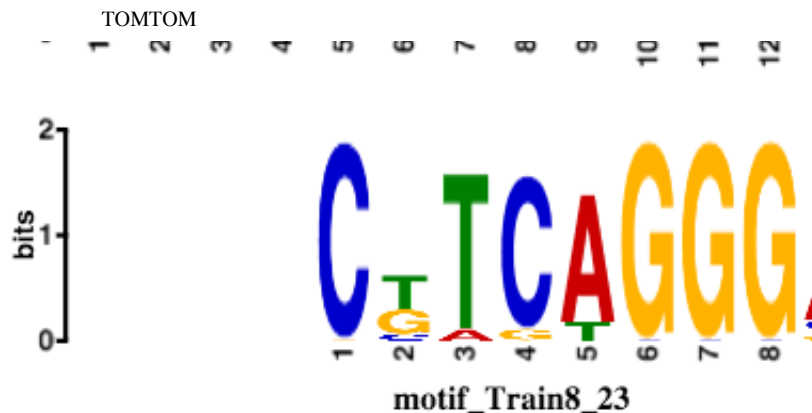
Alignment



E-value 7.19e+00
q-value 1.00e+00

Overlap 10
Offset 4
Orientation Reverse Complement

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MATCHES TO MOTIF_Train9_20 (21-GTGTCTTCAGGG)

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Summary

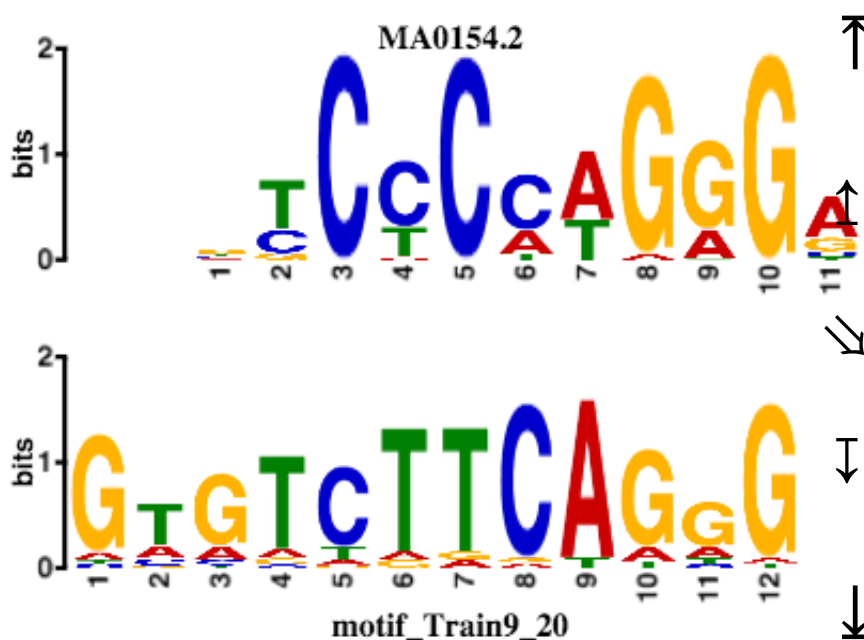
Name [MA0154.2 \(EBF1\)](#)
Database JASPAR CORE 2014

p-value 1.72e-03
E-value 1.68e+00
q-value 1.00e+00

Overlap 10
Offset -2
Orientation Normal

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Alignment



Summary

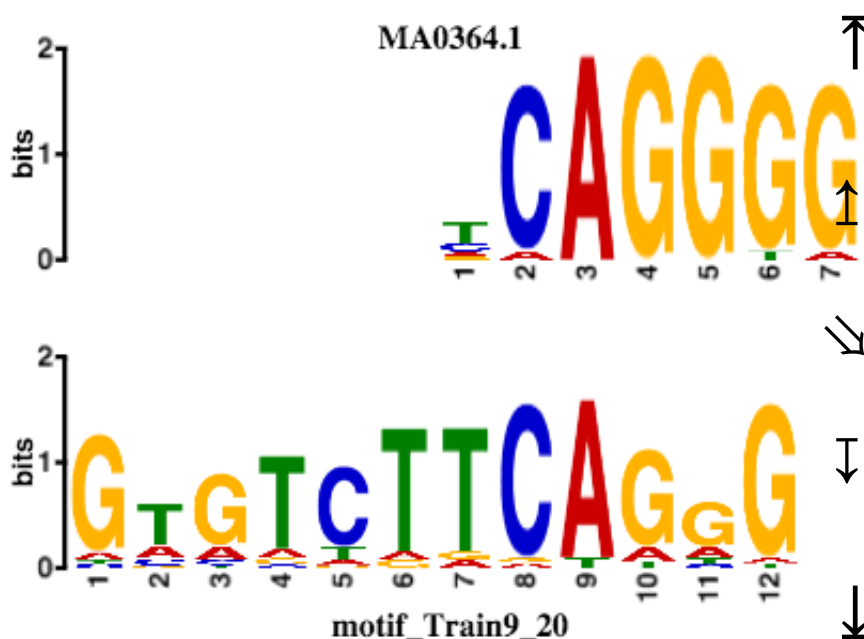
Name [MA0364.1 \(REI1\)](#)
Database JASPAR CORE 2014

p-value 1.80e-03
E-value 1.76e+00
q-value 1.00e+00

Overlap 6
Offset -6
Orientation Reverse Complement

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Alignment

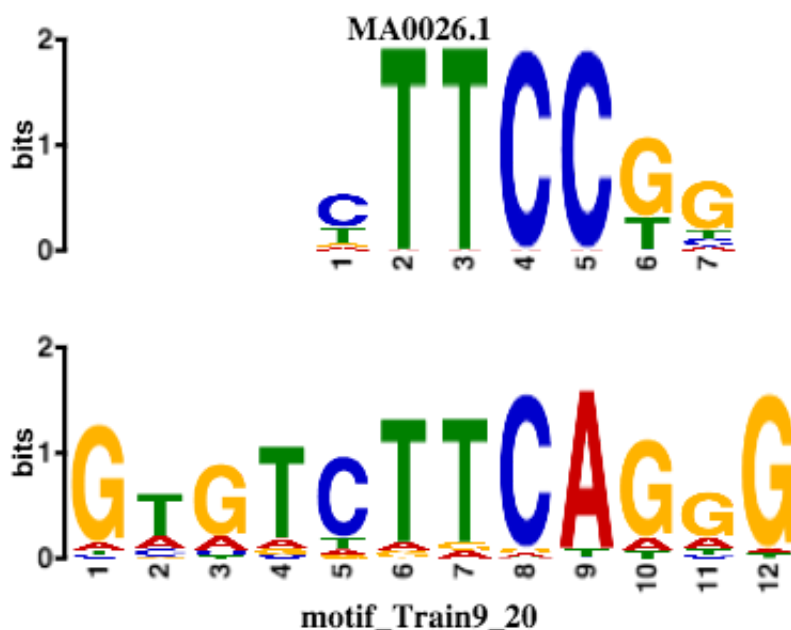


Summary

Name	MA0026.1 (Eip74EF)
Database	JASPAR CORE 2014
p-value	3.98e-03
E-value	3.89e+00
q-value	1.00e+00
Overlap	7
Offset	-4
Orientation	Reverse Complement

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Alignment

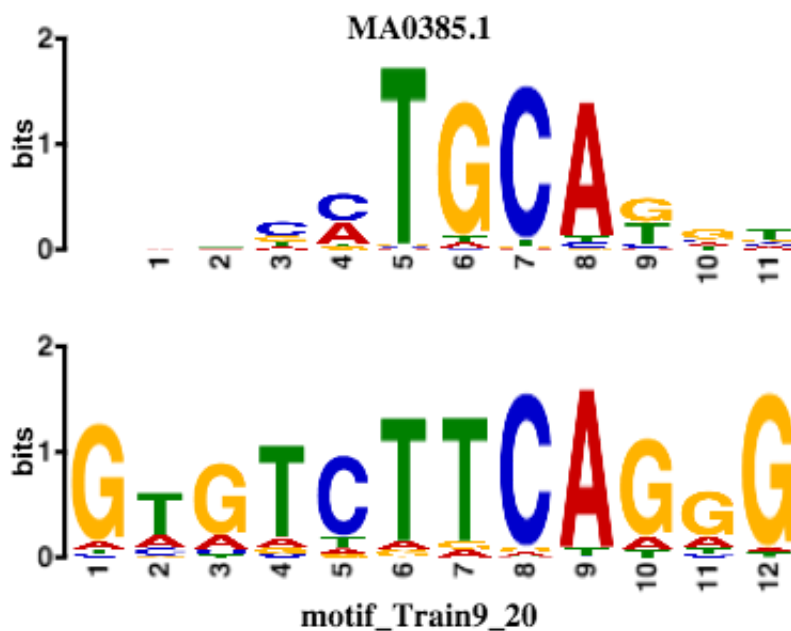


Summary

Name	MA0385.1 (SOK2)
Database	JASPAR CORE 2014
p-value	7.39e-03
E-value	7.23e+00
q-value	1.00e+00
Overlap	11
Offset	-1
Orientation	Reverse Complement

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Alignment



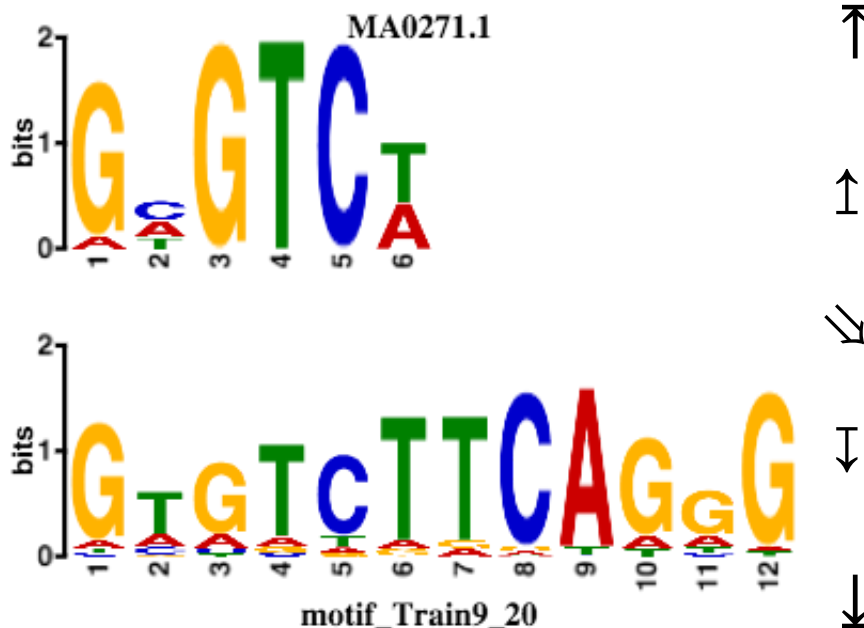
Summary

Name	MA0271.1 (ARG80)
Database	JASPAR CORE 2014
p-value	9.20e-03
E-value	9.01e+00
q-value	1.00e+00
Overlap	6
Offset	0
Orientation	Reverse

Alignment

Orientation

Complement

[Show logo download options](#)**MATCHES TO MOTIF_Train3_18 (20-GTCTTCAGGGAC)**[Previous](#) [Next](#) [Top](#)**Summary**

Name [MA0154.2 \(EBF1\)](#)

Database JASPAR CORE 2014

p-value 1.27e-04

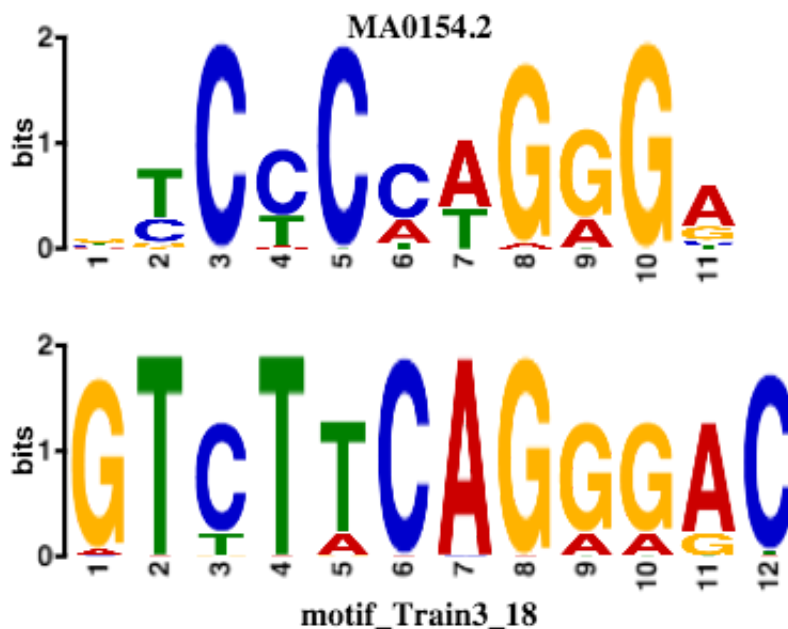
E-value 1.24e-01

q-value 2.48e-01

Overlap 11

Offset 0

Orientation Normal

[Show logo download options](#)**Alignment****Summary**

Name [MA0364.1 \(REI1\)](#)

Database JASPAR CORE 2014

p-value 1.78e-03

E-value 1.75e+00

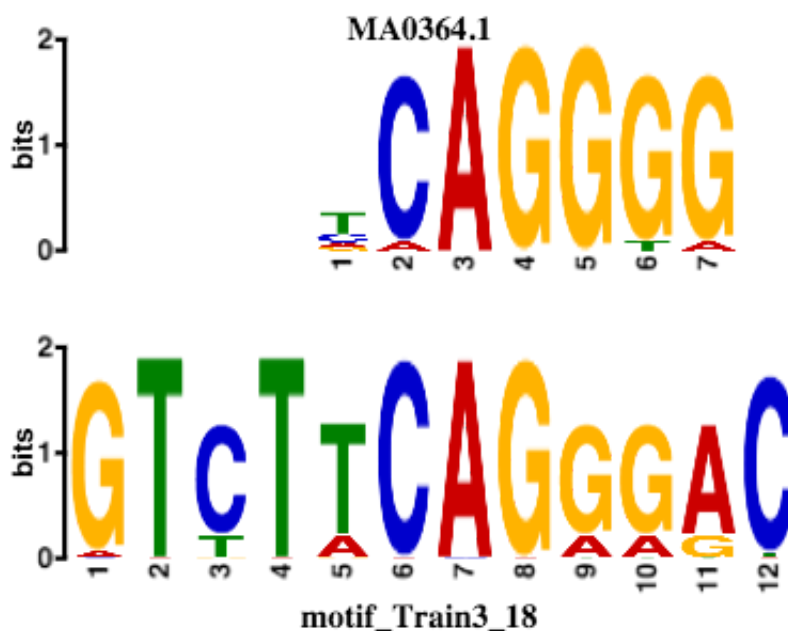
q-value 1.00e+00

Overlap 7

Alignment

Offset -4
Orientation Reverse
 Complement

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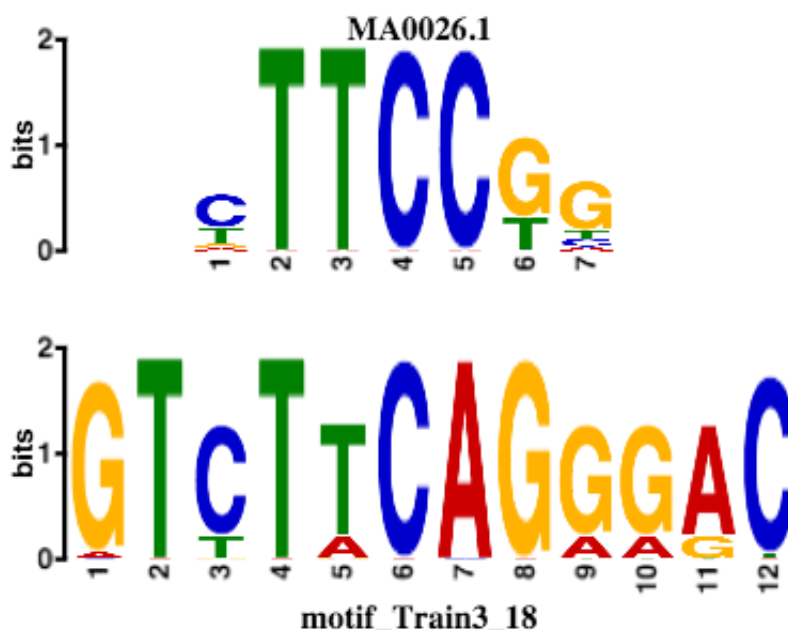
Summary

Name [MA0026.1 \(Eip74EF\)](#)
Database JASPAR CORE 2014
p-value 3.55e-03
E-value 3.47e+00
q-value 1.00e+00

Overlap 7
Offset -2
Orientation Reverse
 Complement

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Alignment



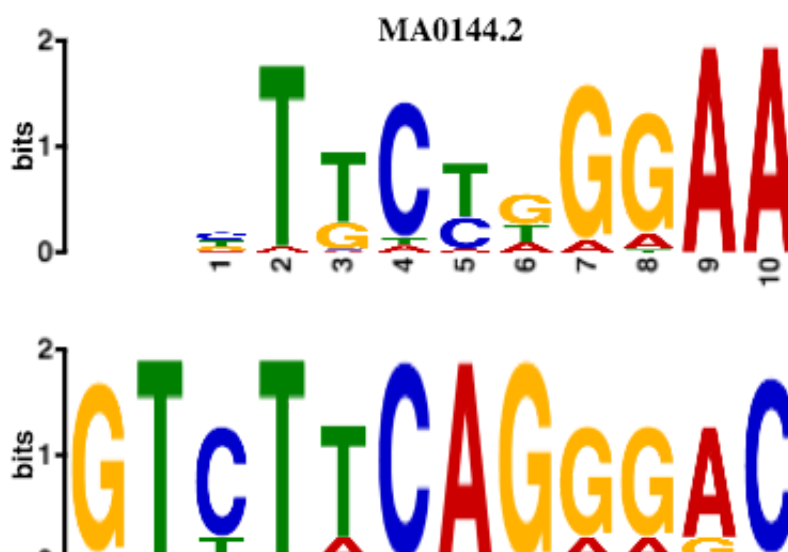
Summary

Name [MA0144.2 \(STAT3\)](#)
Database JASPAR CORE 2014
p-value 4.10e-03
E-value 4.02e+00
q-value 1.00e+00

Overlap 10
Offset -2
Orientation Normal

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Alignment



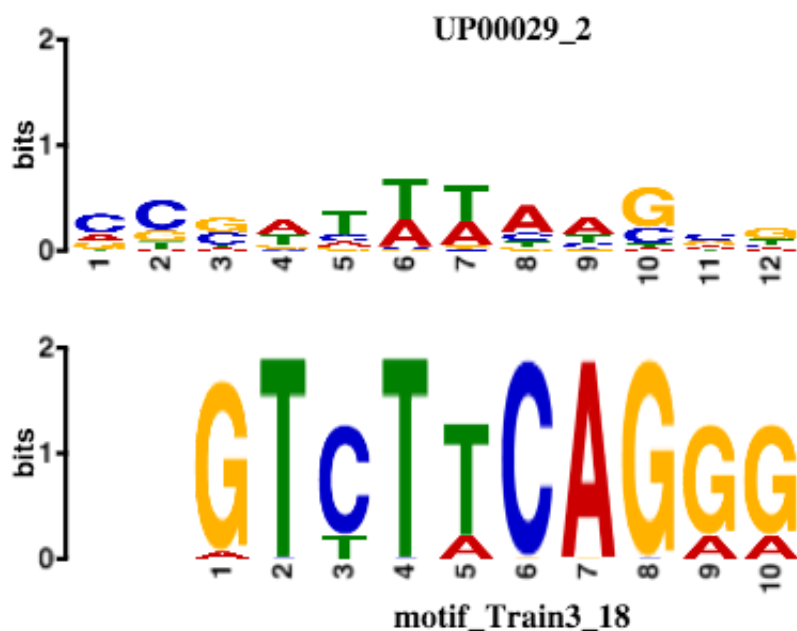


Summary

Name	UP00029_2 (Tbp_secondary)
Database	uniprobe mouse
p-value	6.95e-03
E-value	6.80e+00
q-value	1.00e+00
Overlap	12
Offset	2
Orientation	Normal

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Alignment

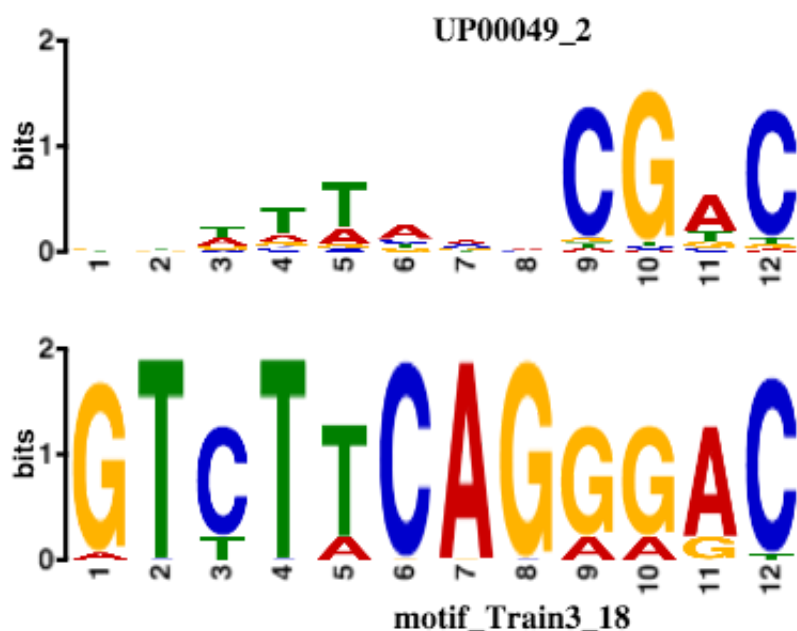


Summary

Name	UP00049_2 (Sp100_secondary)
Database	uniprobe mouse
p-value	7.24e-03
E-value	7.08e+00
q-value	1.00e+00
Overlap	12
Offset	0
Orientation	Reverse Complement

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Alignment



SETTINGS

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Background

Name	Bg.				Bg.	Name
Adenine	0.250	A	~	T	0.250	Thymine
Cytosine	0.250	C	~	G	0.250	Guanine

Other Settings

Strand Handling

Motifs may be reverse complemented before comparison to find a better match.

Distance Measure

Pearson correlation coefficient

Match Threshold

Matches must have a E-value of 10 or smaller.

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TOMTOM version

4.11.1 (Release date: Fri Jan 15 12:51:59 2016 -0800)

Reference

Shobhit Gupta, JA Stamatoyannopolous, Timothy Bailey and William Stafford Noble, "Quantifying similarity between motifs", *Genome Biology*, 8(2):R24, 2007.

Command line

```
tomtom -no-ssc -oc . -verbosity 1 -min-overlap 5 -dist pearson -evaluate -thresh 10.0 motif_group4.txt
```

Result calculation took 9.364 seconds

