



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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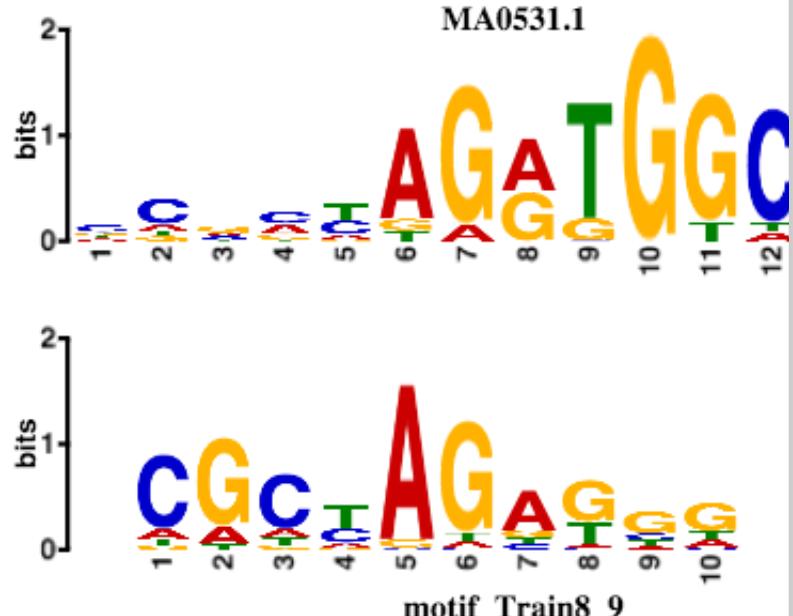
Database	Name	Alt. Name	Preview	Matches	
motif group1	motif_10_14	15-CCGCTAGA		3	MA0531 MA0266
motif group1	motif_Train1_10	10-CGCTAGAGGG		9	MA0531 MA0139
motif group1	motif_Train2_13	16-CCGCTAGAGGG		8	MA0531 MA0324
motif group1	motif_Train3_12	12-CCGCTAGAGGG		8	MA0531 MA0139
motif group1	motif_Train4_16	14-CGCTAGAGGG		9	MA0531 MA0139
motif group1	motif_Train5_11	10-CCGCTAGAKG		7	MA0531 MA0266
motif group1	motif_Train6_17	17-CCGCTAGA		4	MA0531 MA0266
motif group1	motif_Train7_6	10-CGCYAGWKNG		24	MA0531 MA0139
motif group1	motif_Train8_9	10-CGCTAGAGGG		11	MA0531 MA0139

**TARGET DATABASES**[Previous](#) [Next](#) [Top](#)

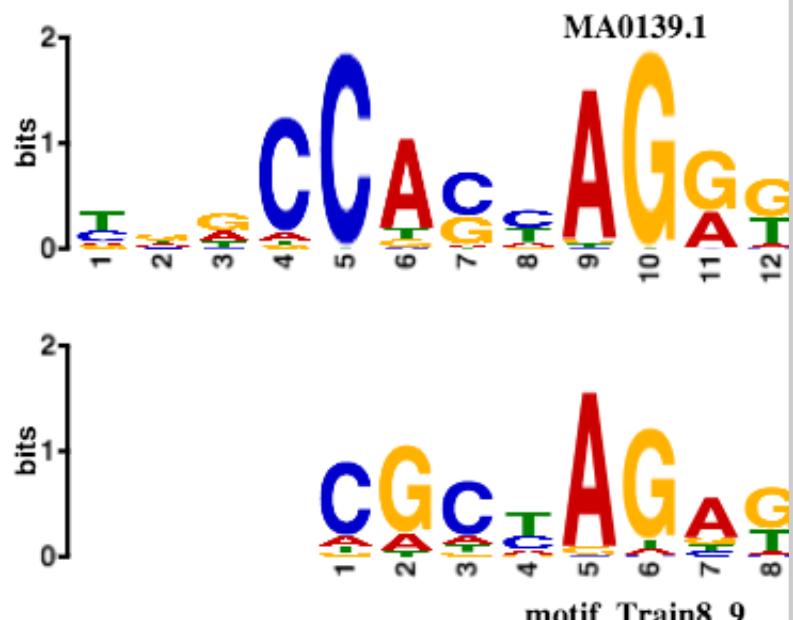
Database	Used	Matched
uniprobe mouse	386	20
JASPAR CORE 2014	593	18

MATCHES TO MOTIF_TRAIN8_9 (10-CGCTAGAGGG)[Previous](#) [Next](#) [Top](#)**Summary****Alignment**

Name	MA0531.1 (CTCF)
Database	JASPAR CORE 2014
<i>p</i> -value	9.26e-06
<i>E</i> -value	9.06e-03
<i>q</i> -value	1.81e-02
Overlap	10
Offset	1
Orientation	Normal
Show logo download options	

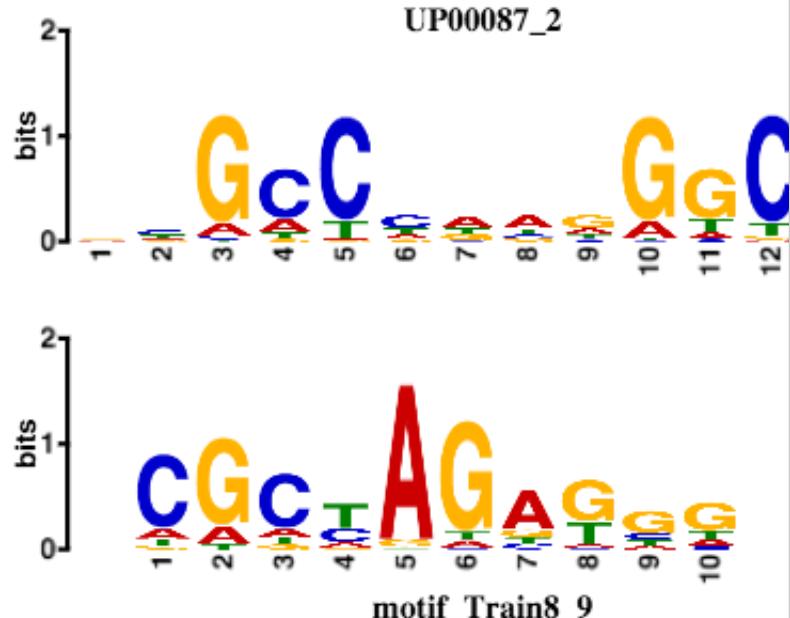
**Summary****Alignment**

Name	MA0139.1 (CTCF)
Database	JASPAR CORE 2014
<i>p</i> -value	2.14e-04
<i>E</i> -value	2.09e-01
<i>q</i> -value	2.09e-01
Overlap	10
Offset	4
Orientation	Normal
Show logo download options	

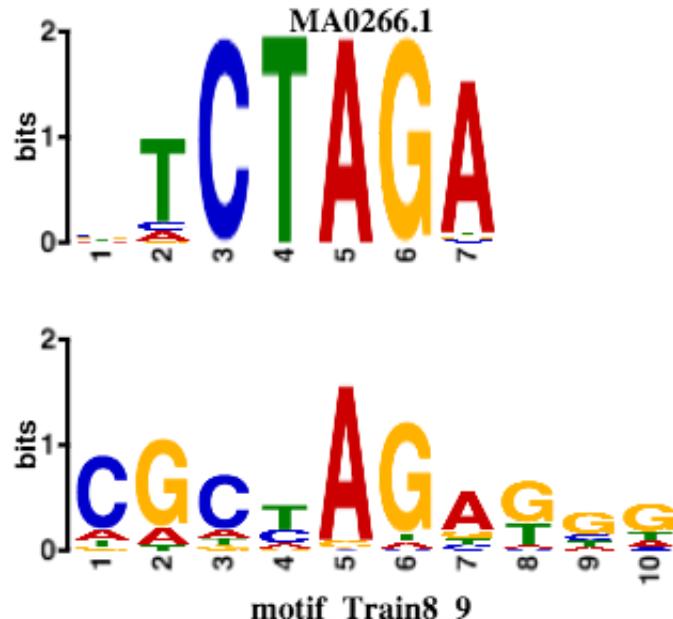


Summary

Name	UP00087_2 (Tcfap2c secondary)
Database	uniprobe mouse
p-value	9.99e-04
E-value	9.78e-01
q-value	6.52e-01
Overlap	10
Offset	1
Orientation	Normal

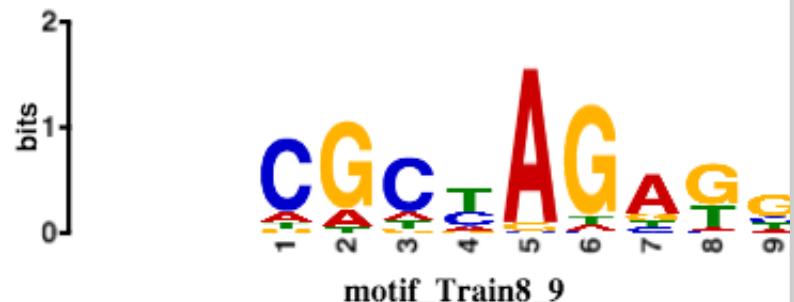
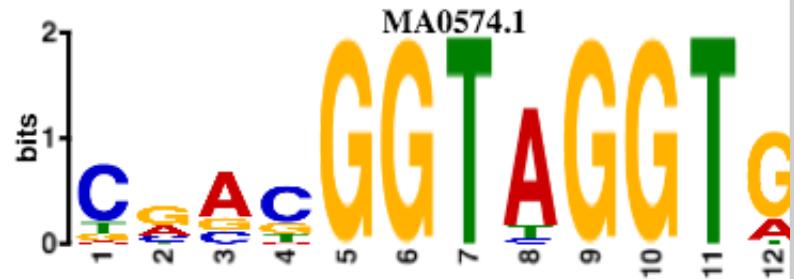
[Show logo download options](#)**Alignment****Summary**

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	1.95e-03
E-value	1.91e+00
q-value	9.56e-01
Overlap	7
Offset	0
Orientation	Normal

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

Name	MA0574.1 (AtMYB15)
Database	JASPAR CORE 2014
p-value	3.03e-03
E-value	2.96e+00
q-value	1.00e+00
Overlap	10
Offset	3
Orientation	Normal

Alignment

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

Name [UP00046_2](#)
(Tcfe2a secondary)

Database uniprobe mouse

p-value 3.97e-03

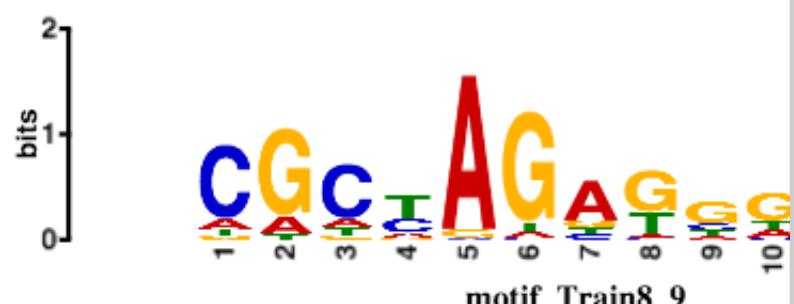
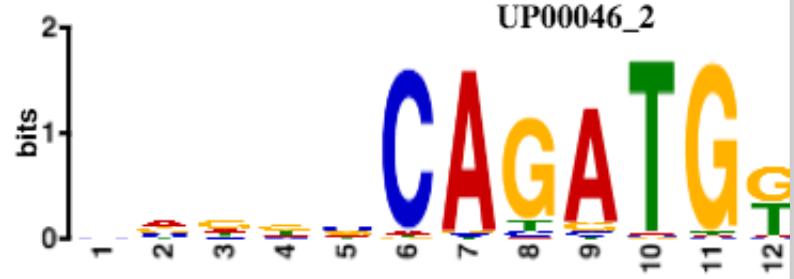
E-value 3.89e+00

q-value 1.00e+00

Overlap 10

Offset 2

Orientation Normal

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

Name [UP00001_2](#)
(E2F2 secondary)

Database uniprobe mouse

p-value 4.88e-03

E-value 4.78e+00

q-value 1.00e+00

Overlap 10

Offset 7

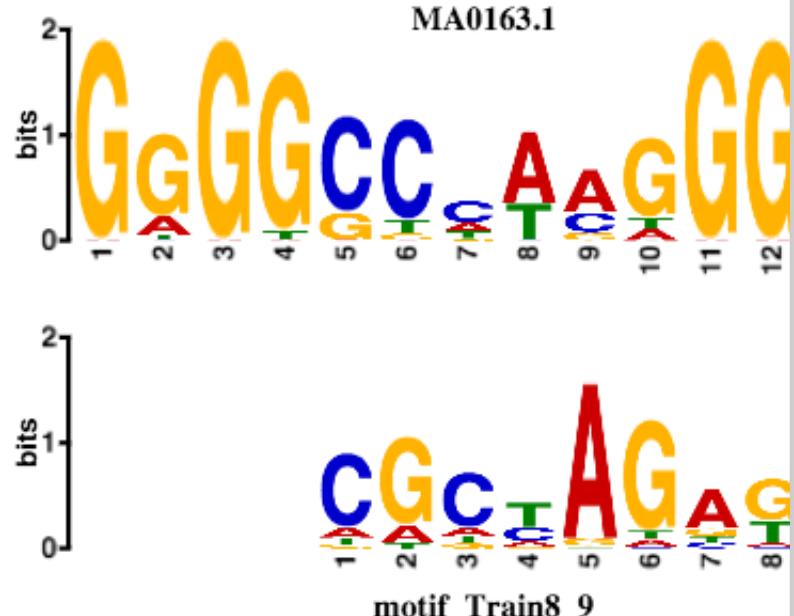
Orientation Normal

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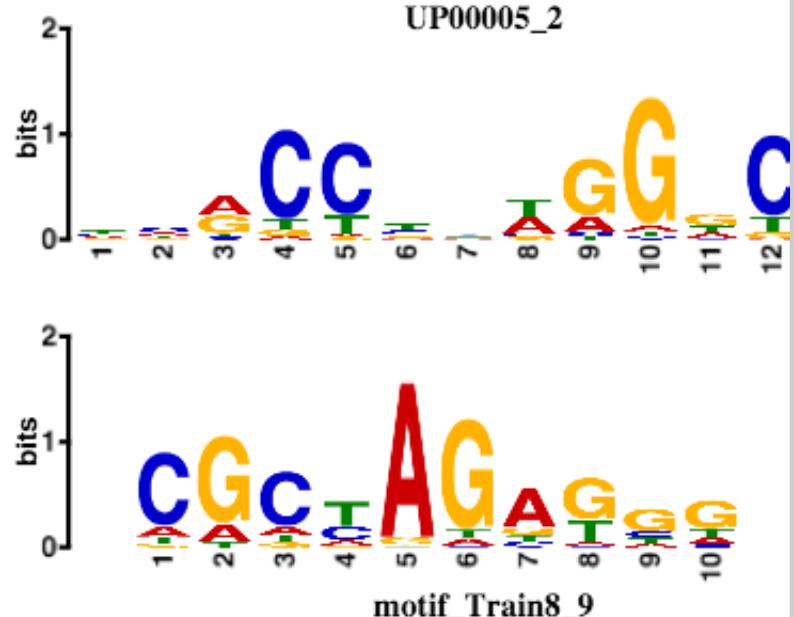
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motif_Train8_9
Summary**Alignment**

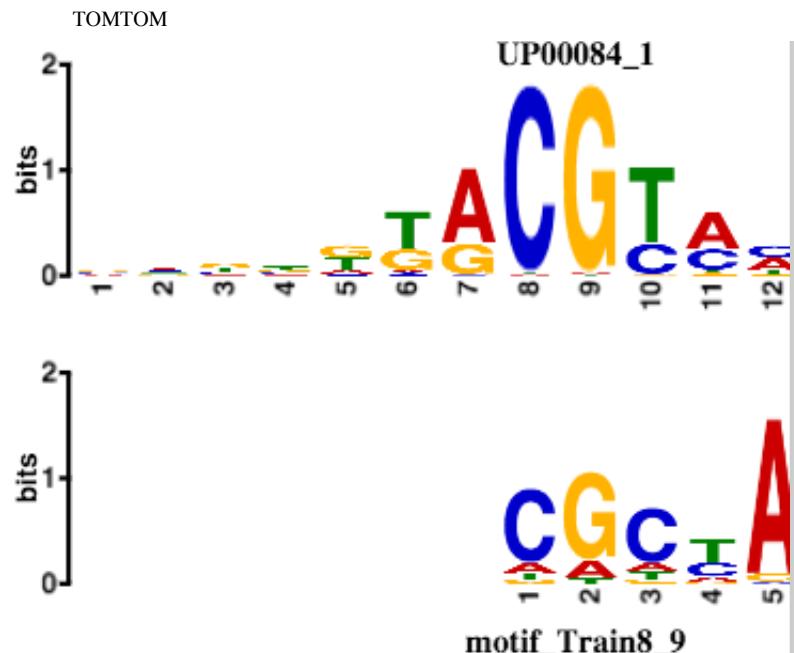
Name	MA0163.1 (PLAG1)
Database	JASPAR CORE 2014
p-value	7.07e-03
E-value	6.92e+00
q-value	1.00e+00
Overlap	10
Offset	4
Orientation	Normal
Show logo download options	

**Summary****Alignment**

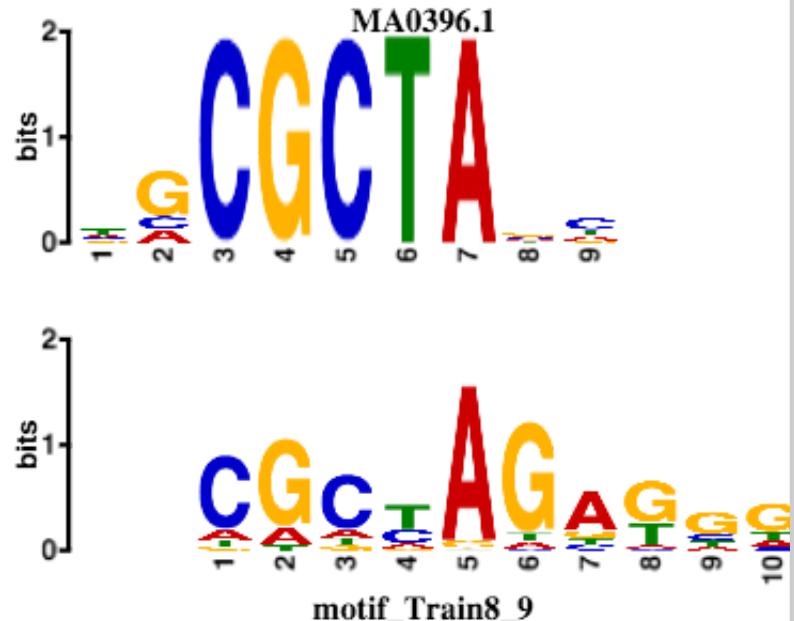
Name	UP00005_2 (Tcfap2a secondary)
Database	uniprobe mouse
p-value	7.54e-03
E-value	7.38e+00
q-value	1.00e+00
Overlap	10
Offset	1
Orientation	Normal
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**Summary****Alignment**

Name	UP00084_1 (Gmeb1_primary)
Database	uniprobe mouse
p-value	8.27e-03
E-value	8.10e+00
q-value	1.00e+00
Overlap	10
Offset	7
Orientation	Normal
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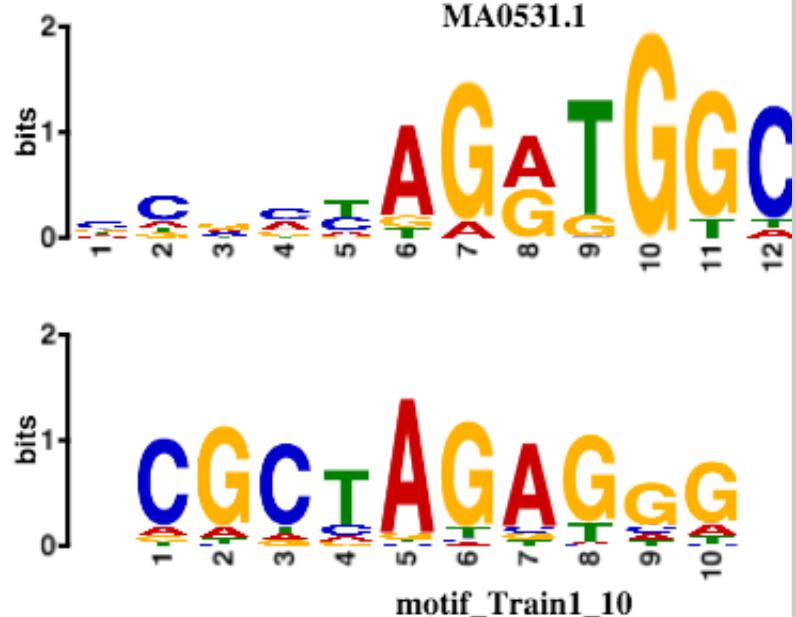
**Summary****Alignment**

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014
p-value	8.52e-03
E-value	8.34e+00
q-value	1.00e+00
Overlap	7
Offset	2
Orientation	Reverse Complement
	Show logo download options

**MATCHES TO MOTIF_TRAIN1_10 (10-CGCTAGAGGG)**[Previous](#) [Next](#) [Top](#)**Summary****Alignment**

Name	MA0531.1 (CTCF)
Database	JASPAR CORE 2014

p-value	8.40e-05
E-value	8.23e-02
q-value	1.65e-01
Overlap	10
Offset	1
Orientation	Normal

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Summary

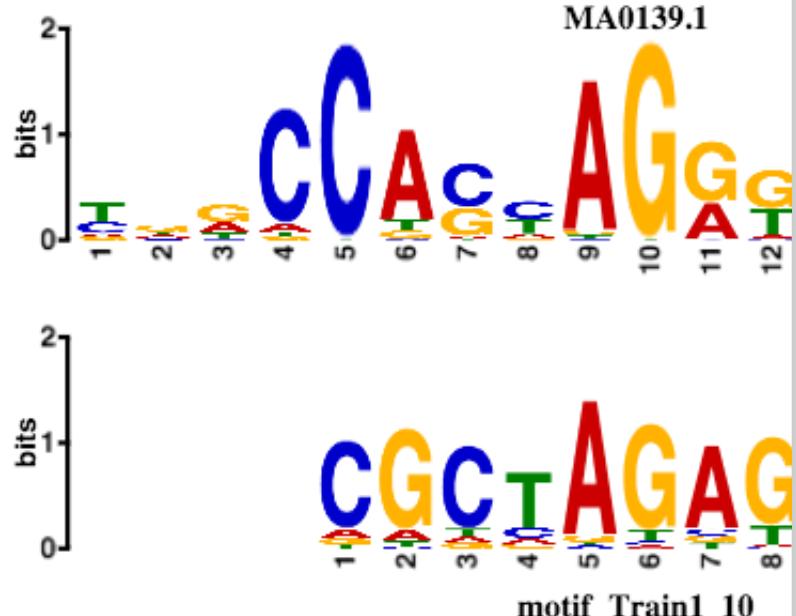
Name	MA0139.1 (CTCF)
Database	JASPAR CORE 2014

p-value	9.65e-04
E-value	9.45e-01
q-value	9.45e-01

Overlap	10
Offset	4
Orientation	Normal

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Alignment



Summary

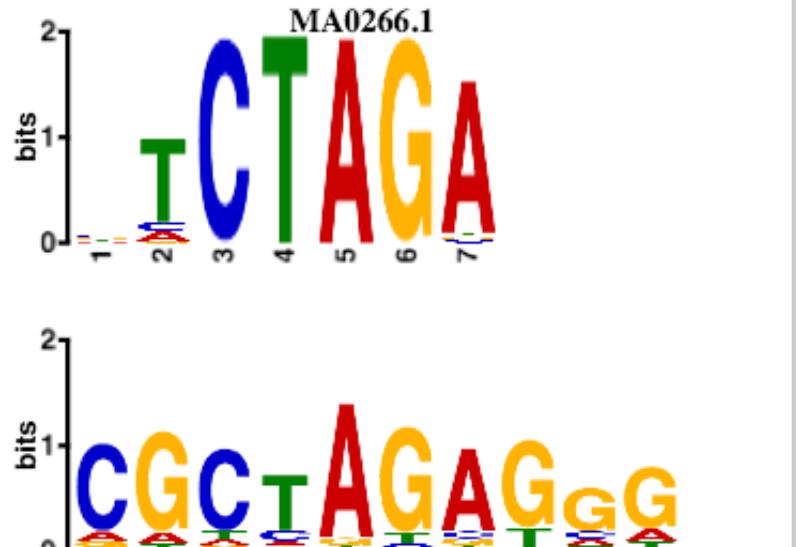
Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014

p-value	1.68e-03
E-value	1.64e+00
q-value	9.61e-01

Overlap	7
Offset	0
Orientation	Normal

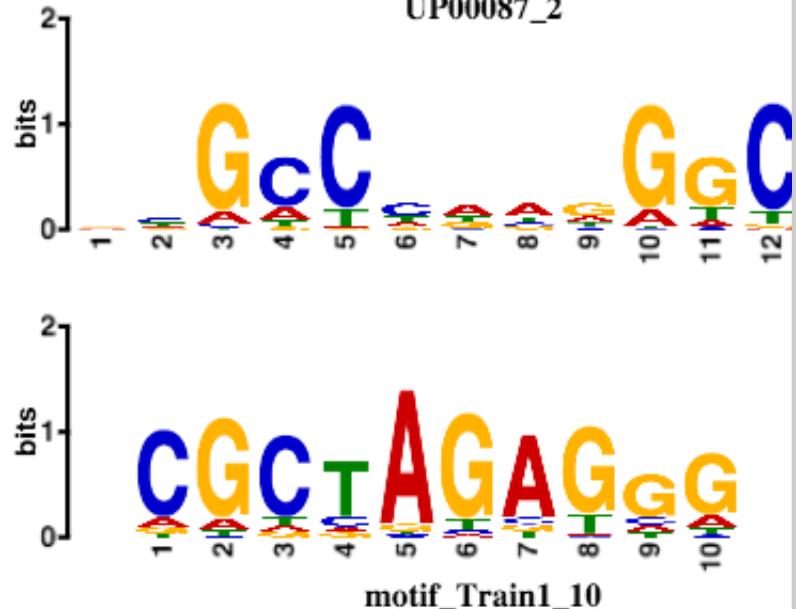
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Alignment

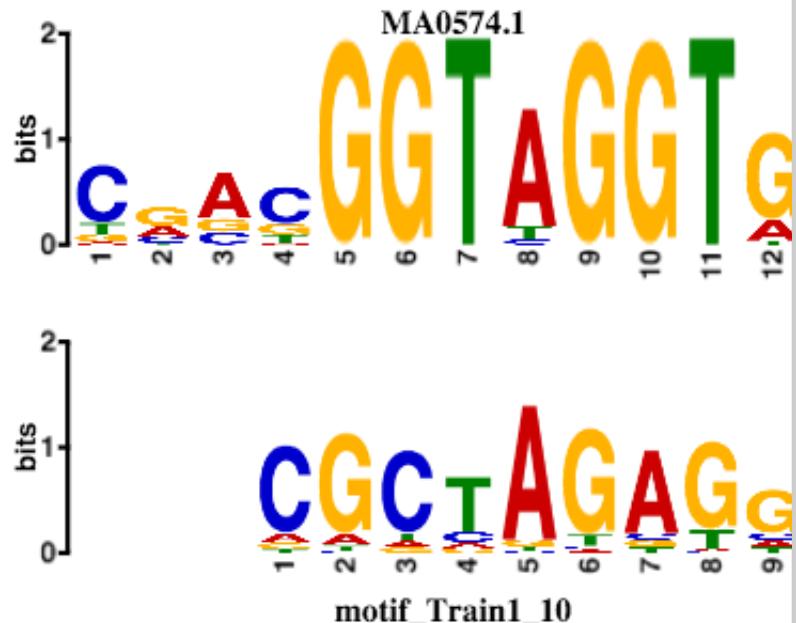


**Summary****Alignment**

Name	UP00087_2 (Tcfap2c secondary)
Database	uniprobe mouse
p-value	3.17e-03
E-value	3.11e+00
q-value	1.00e+00
Overlap	10
Offset	1
Orientation	Normal
Show logo download options	

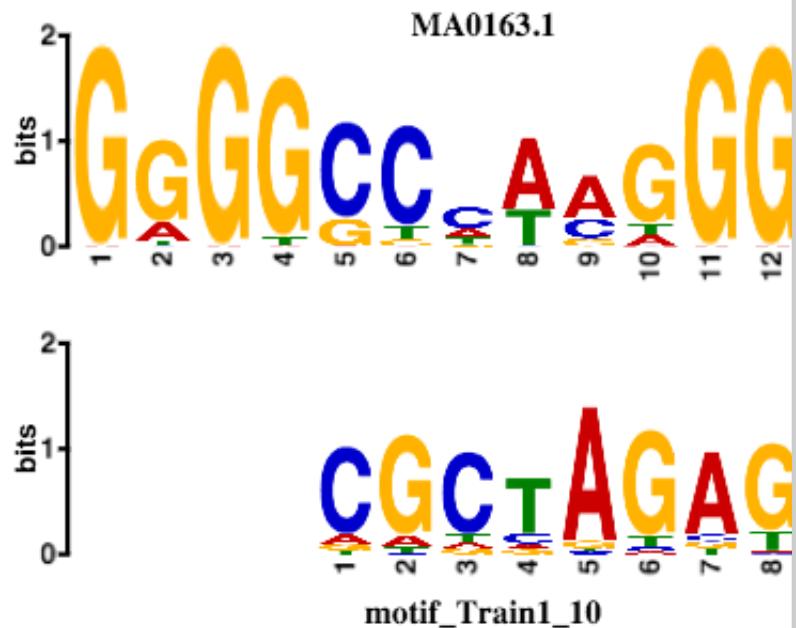
**Summary****Alignment**

Name	MA0574.1 (AtMYB15)
Database	JASPAR CORE 2014
p-value	3.90e-03
E-value	3.82e+00
q-value	1.00e+00
Overlap	10
Offset	3
Orientation	Normal
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**Summary****Alignment**

Name	MA0163.1 (PLAG1)
Database	JASPAR CORE 2014
p-value	4.52e-03
E-value	4.43e+00
q-value	1.00e+00
Overlap	10

Overlap 10
Offset 4
Orientation Normal
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Summary

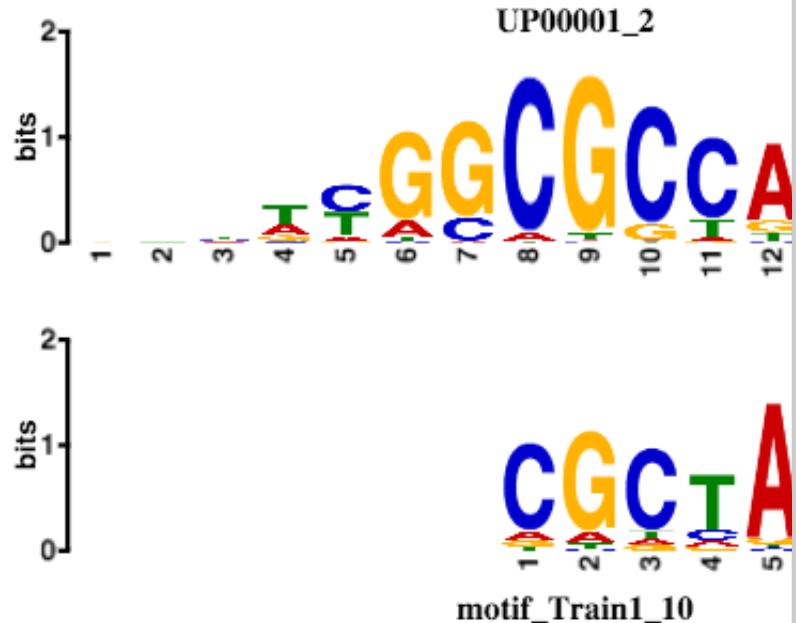
Name UP00001_2
Database (E2F2 secondary)
 uniprobe mouse

p-value 7.50e-03
E-value 7.34e+00
q-value 1.00e+00

Overlap 10
Offset 7
Orientation Normal

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Alignment



Summary

Name MA0396.1 (STP3)
Database JASPAR CORE 2014

p-value 8.03e-03
E-value 7.86e+00
q-value 1.00e+00

Alignment



Overlap 9
Offset -1
Orientation Normal
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**Summary****Alignment**

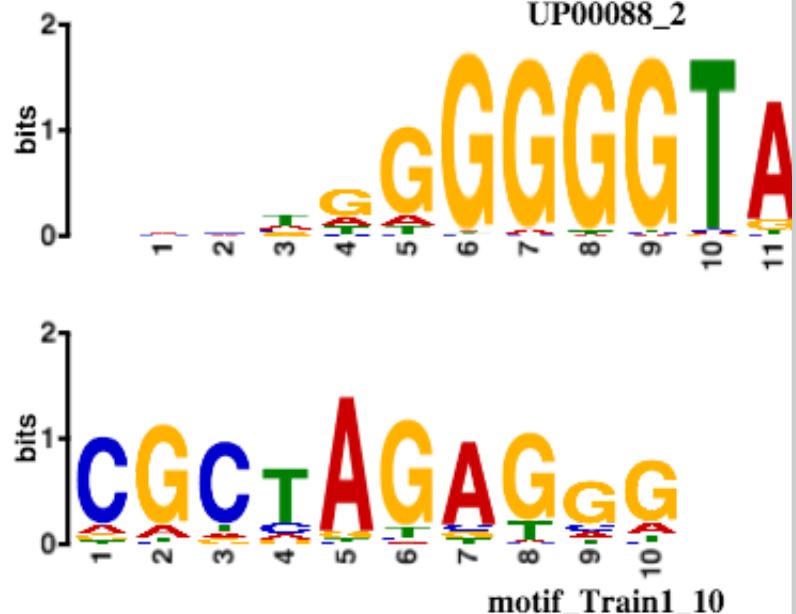
Name [UP00088_2](#)
Database (Plagl1 secondary)
 uniprobe mouse

p-value 9.34e-03
E-value 9.14e+00
q-value 1.00e+00

Overlap 9
Offset -1

Orientation Normal

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**MATCHES TO MOTIF_TRAIN4_16 (14-CGCTAGAGGG)**

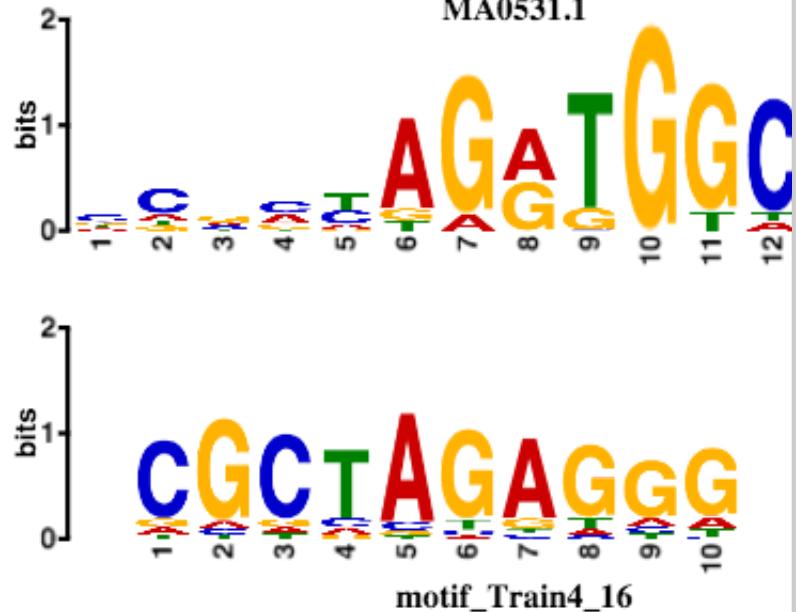
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Summary**Alignment**

Name [MA0531.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 1.09e-04
E-value 1.07e-01

q-value	2.14e-01
Overlap	10
Offset	1
Orientation	Normal
Show logo download options	



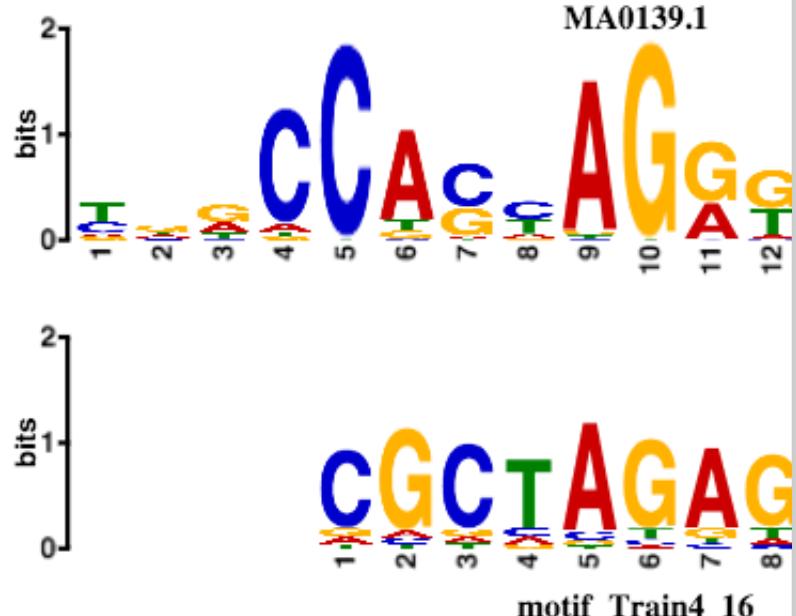
Summary

Name [MA0139.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 1.14e-03
E-value 1.11e+00
q-value 8.43e-01

Overlap 10
Offset 4
Orientation Normal
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Alignment



Summary

Name [MA0266.1 \(ABF2\)](#)
Database JASPAR CORE 2014

p-value 1.59e-03
E-value 1.55e+00
q-value 8.43e-01

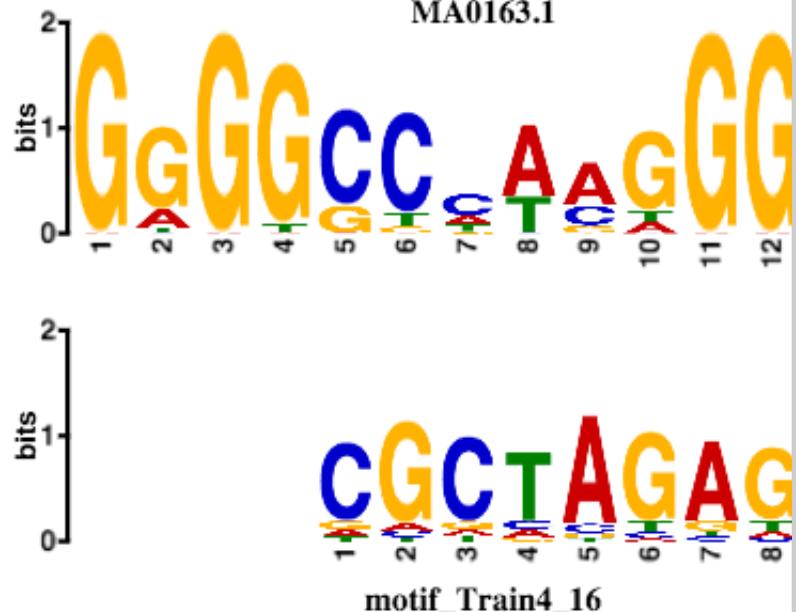
Overlap 7
Offset 0
Orientation Normal
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Alignment

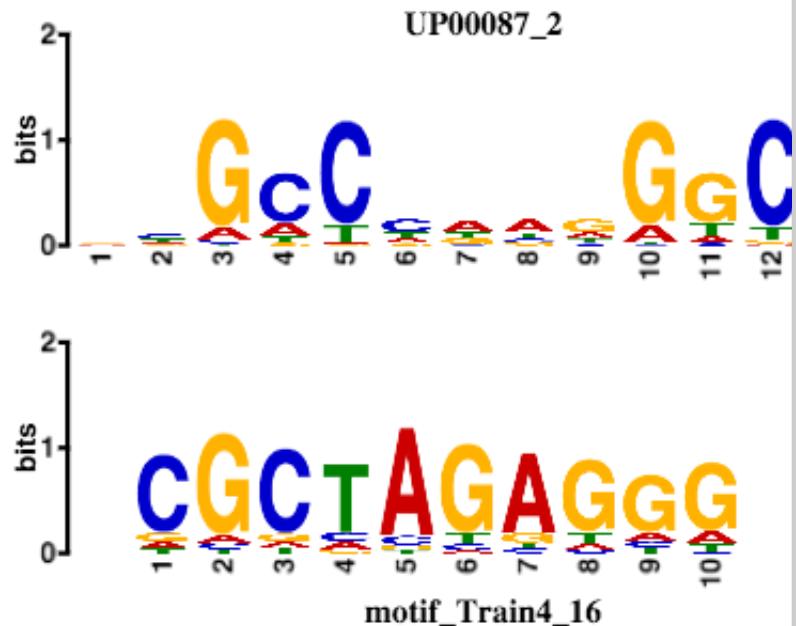


**Summary**

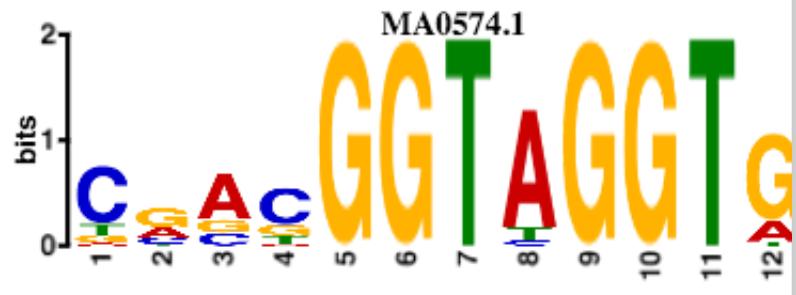
Name	MA0163.1 (PLAG1)
Database	JASPAR CORE 2014
p-value	2.84e-03
E-value	2.78e+00
q-value	1.00e+00
Overlap	10
Offset	4
Orientation	Normal
Show logo download options	

Alignment**Summary**

Name	UP00087_2 (Tcfap2c_secondary)
Database	uniprobe mouse
p-value	3.26e-03
E-value	3.19e+00
q-value	1.00e+00
Overlap	10
Offset	1
Orientation	Normal
Show logo download options	

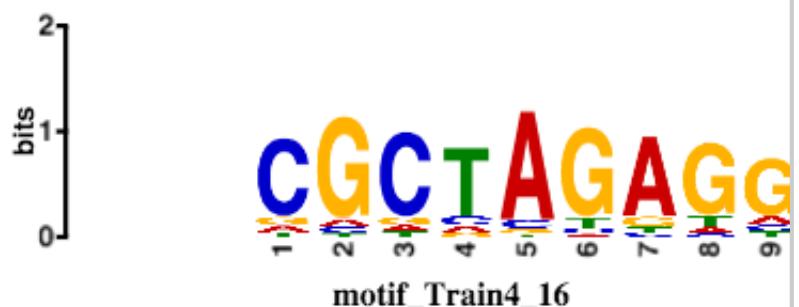
Alignment**Summary**

Name	MA0574.1 (AtMYB15)
Database	JASPAR CORE 2014
p-value	4.02e-03
E-value	3.94e+00
q-value	1.00e+00

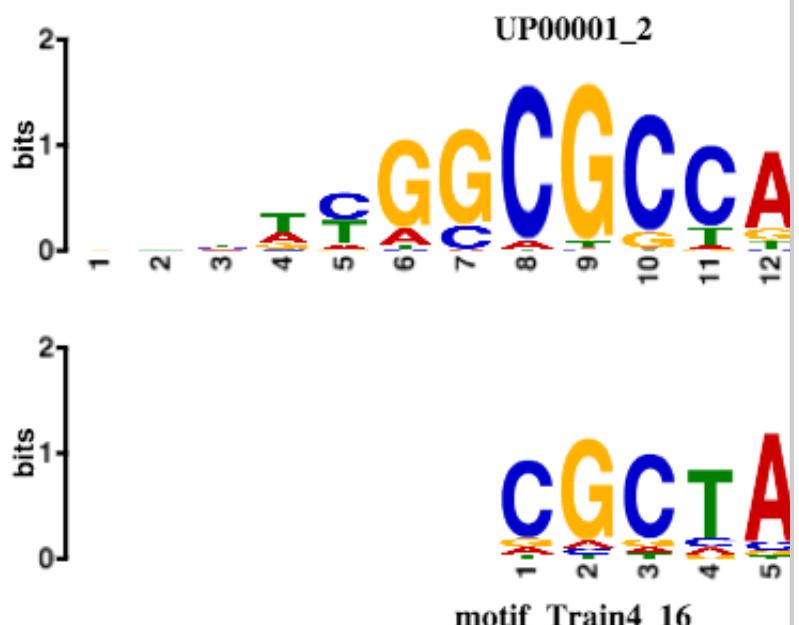
Alignment

Y-value 1.000e+00
Overlap 10
Offset 3
Orientation Normal
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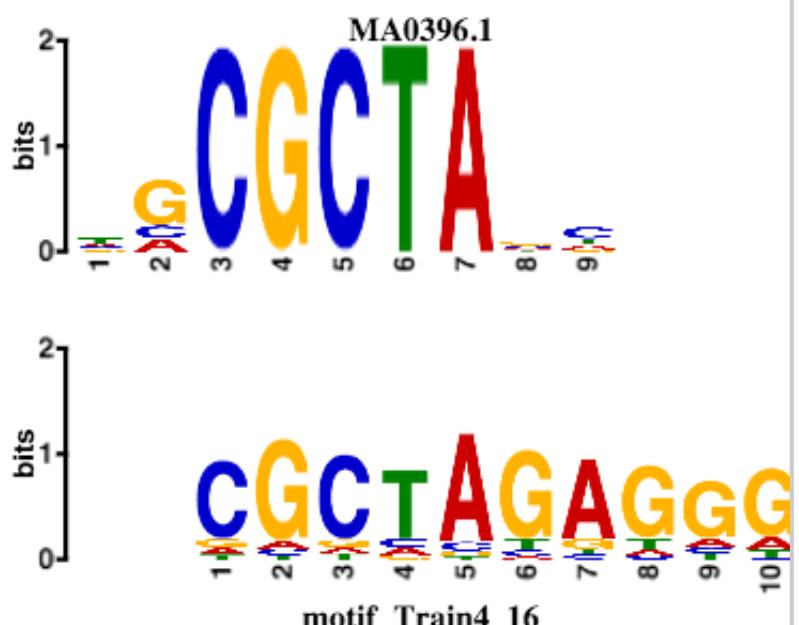
TOMTOM

**Summary**

Name UP00001_2
Database uniprobe mouse
p-value 7.10e-03
E-value 6.95e+00
q-value 1.00e+00
Overlap 10
Offset 7
Orientation Normal
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Alignment**Summary**

Name MA0396.1 (STP3)
Database JASPAR CORE 2014
p-value 9.17e-03
E-value 8.98e+00
q-value 1.00e+00
Overlap 7
Offset 2
Orientation Reverse Complement
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Alignment**Summary**

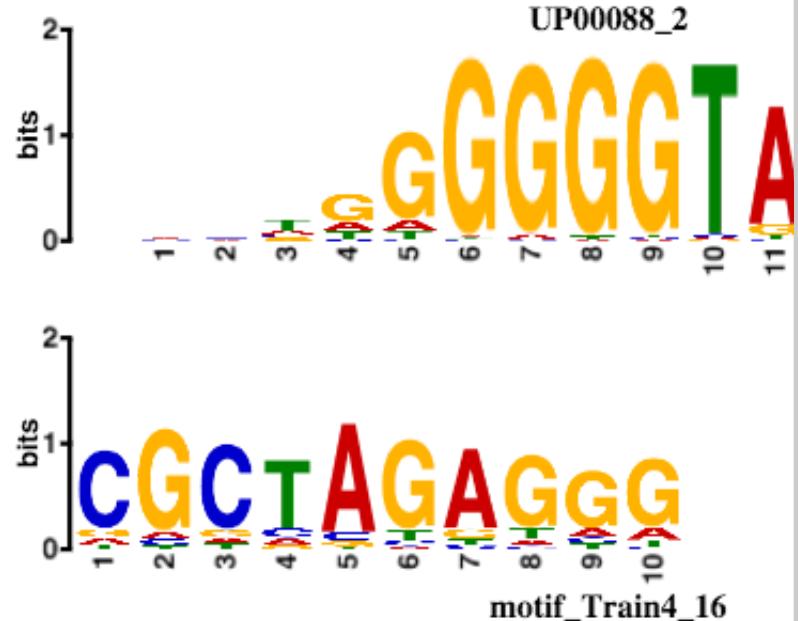
Name UP00088_2
Database uniprobe mouse
(Plagl1_secondary)

Alignment

p-value 1.01e-02
E-value 9.93e+00
q-value 1.00e+00

Overlap 9
Offset -1
Orientation Normal

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MATCHES TO MOTIF_TRAIN9_12 (12-CCGCTAGAKGGC)

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Summary

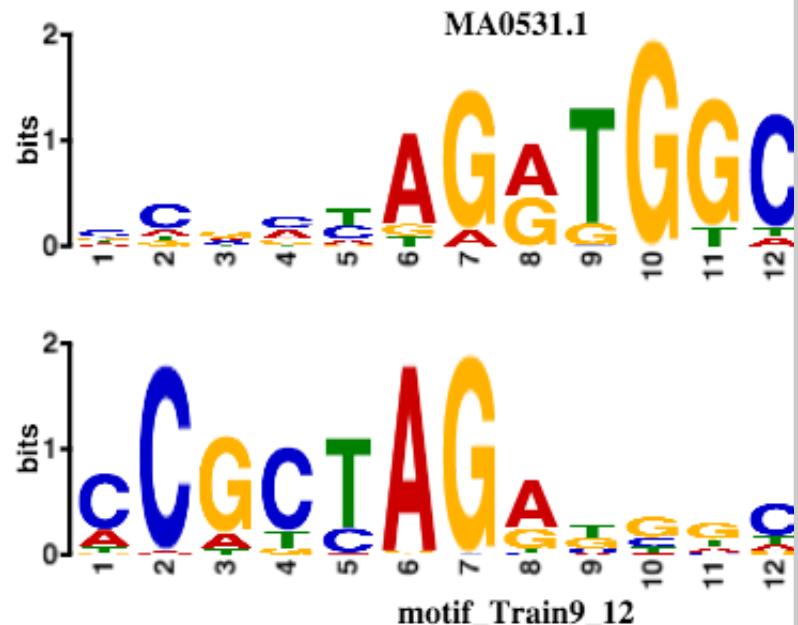
Name [MA0531.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 5.53e-08
E-value 5.42e-05
q-value 1.08e-04

Overlap 12
Offset 0
Orientation Normal

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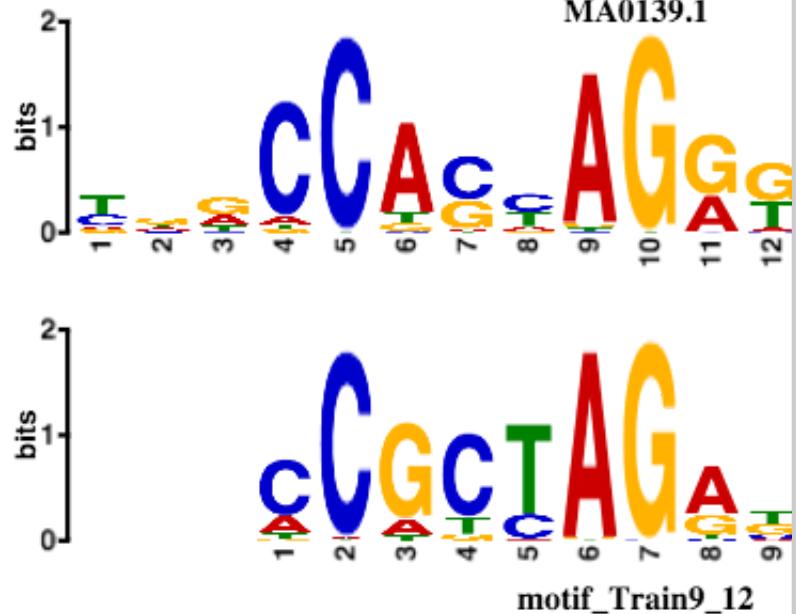
Alignment



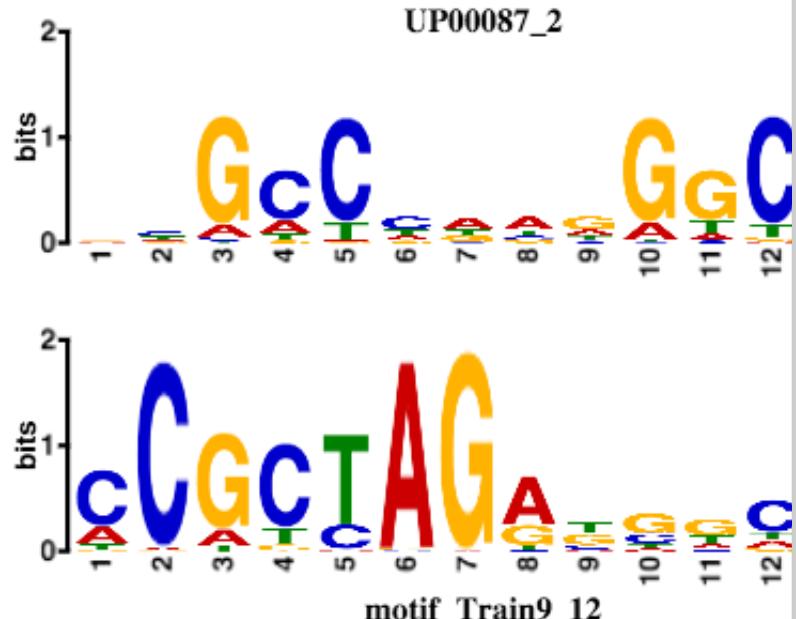
Summary

Alignment

Name	MA0139.1 (CTCF)
Database	JASPAR CORE 2014
p-value	8.69e-06
E-value	8.51e-03
q-value	8.49e-03
Overlap	12
Offset	3
Orientation	Normal

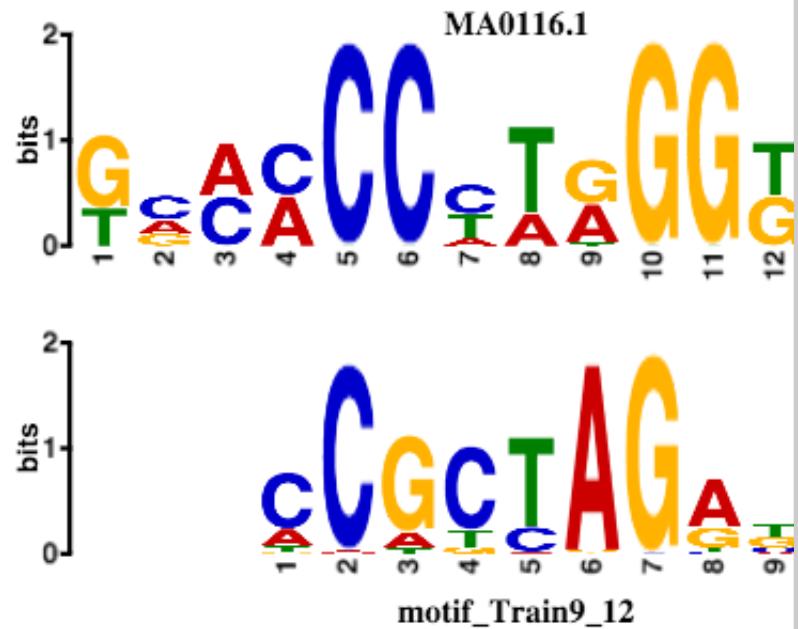
[Show logo download options](#)**Summary****Alignment**

Name	UP00087_2 (Tcfap2c secondary)
Database	uniprobe mouse
p-value	3.77e-04
E-value	3.69e-01
q-value	2.45e-01
Overlap	12
Offset	0
Orientation	Normal

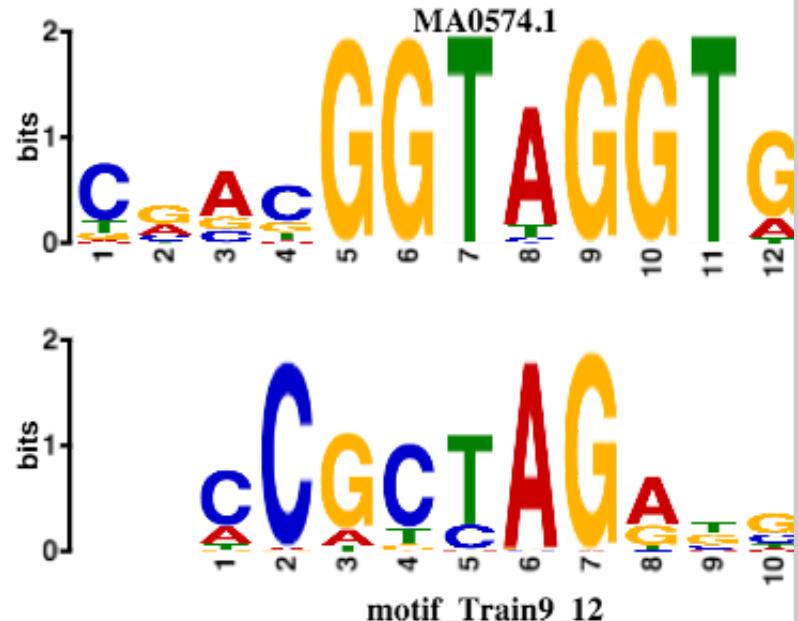
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Name	MA0116.1 (Zfp423)
Database	JASPAR CORE 2014
p-value	1.14e-03
E-value	1.12e+00
q-value	5.35e-01
Overlap	12
Offset	3
Orientation	Reverse Complement

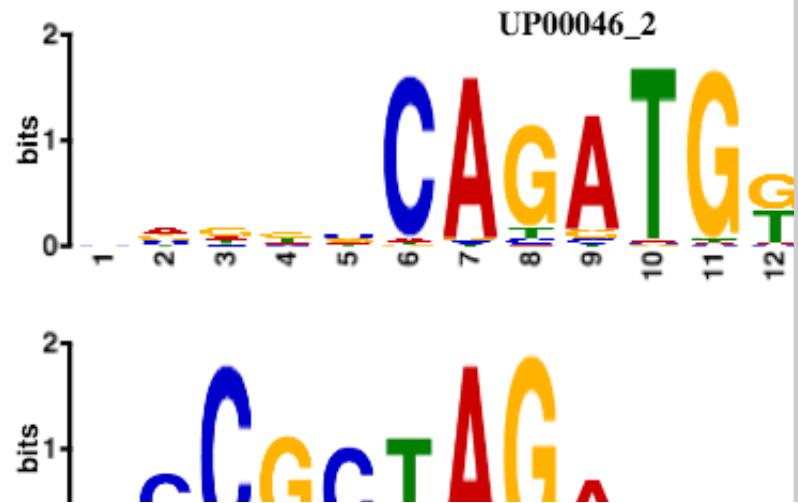
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**Summary**

Name	MA0574.1 (AtMYB15)
Database	JASPAR CORE 2014
p-value	1.37e-03
E-value	1.34e+00
q-value	5.35e-01
Overlap	11
Offset	2
Orientation	Normal

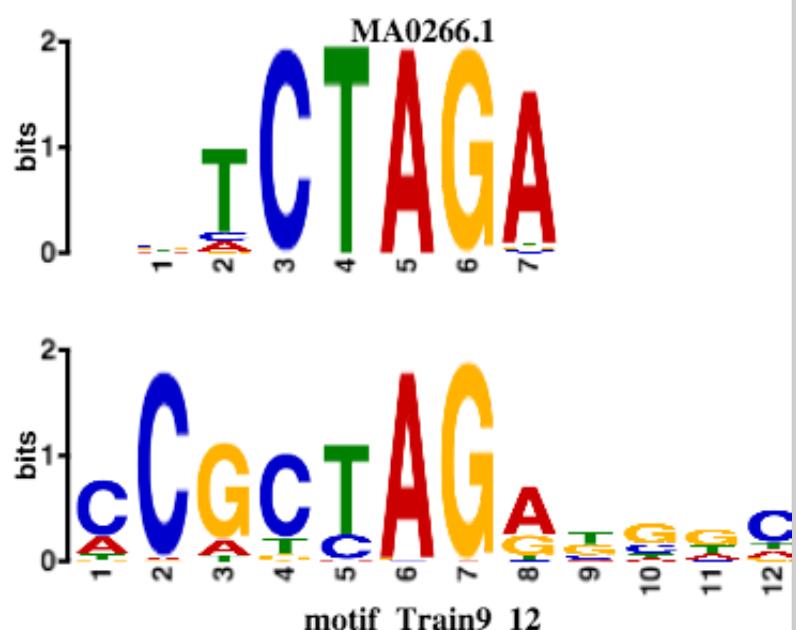
[Show logo download options](#)**Alignment****Summary**

Name	UP00046_2 (Tcfe2a secondary)
Database	uniprobe mouse
p-value	1.85e-03
E-value	1.81e+00
q-value	6.04e-01
Overlap	12
Offset	1
Orientation	Normal

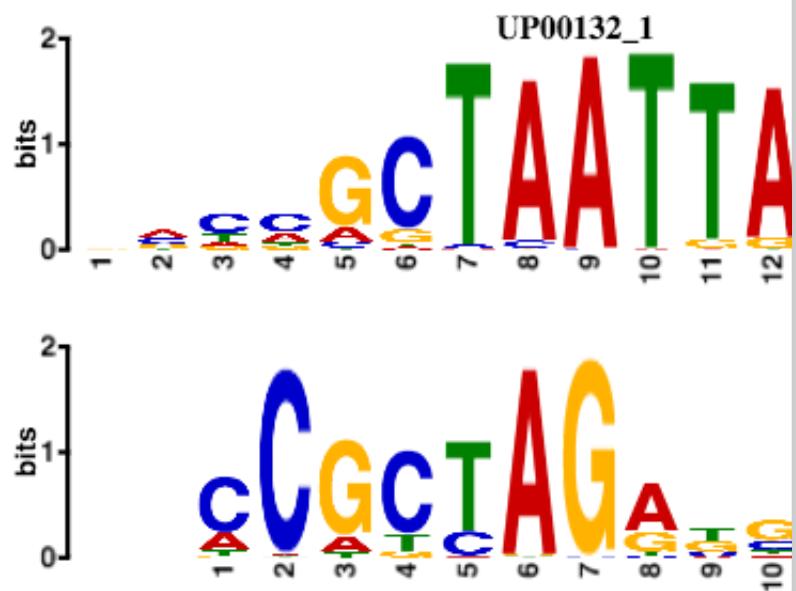
Alignment

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Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	2.27e-03
E-value	2.22e+00
q-value	6.35e-01
Overlap	7
Offset	-1
Orientation	Normal

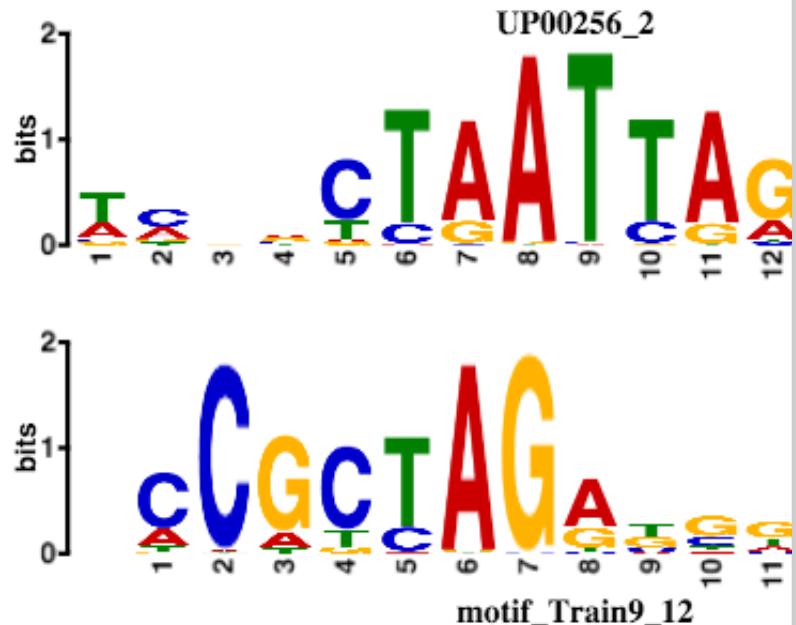
[Show logo download options](#)**Summary****Alignment**

Name	UP00132_1 (Evx2_2645.3)
Database	uniprobe mouse
p-value	2.61e-03
E-value	2.55e+00
q-value	6.37e-01
Overlap	12
Offset	2
Orientation	Normal

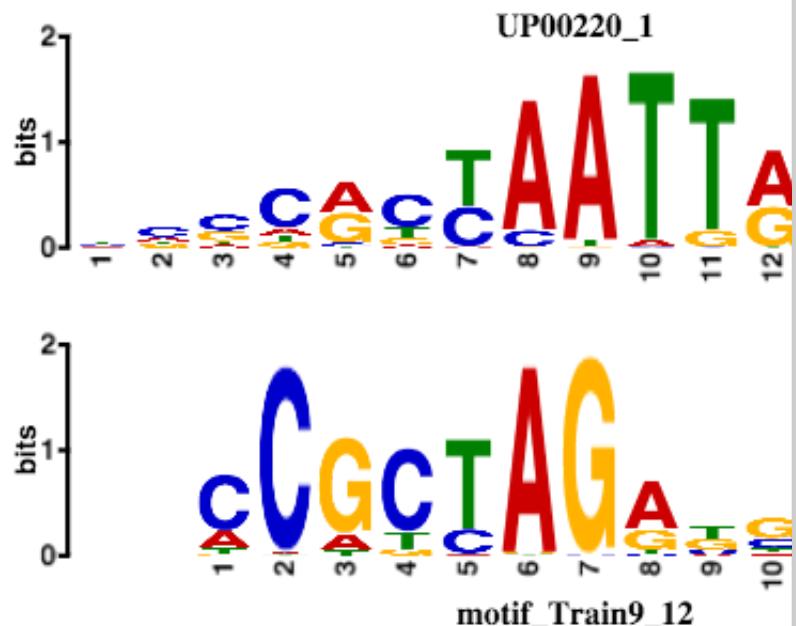
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Summary

Name	UP00256_2 (Lhx6_3432.1)
Database	uniprobe mouse
p-value	4.13e-03
E-value	4.05e+00
q-value	6.77e-01
Overlap	12
Offset	1
Orientation	Normal

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Name	UP00220_1 (Nkx1-1_3856.3)
Database	uniprobe mouse
p-value	4.13e-03
E-value	4.05e+00
q-value	6.77e-01
Overlap	12
Offset	2
Orientation	Reverse Complement

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

Name	MA0461.1 (Atoh1)
Database	JASPAR CORE 2014

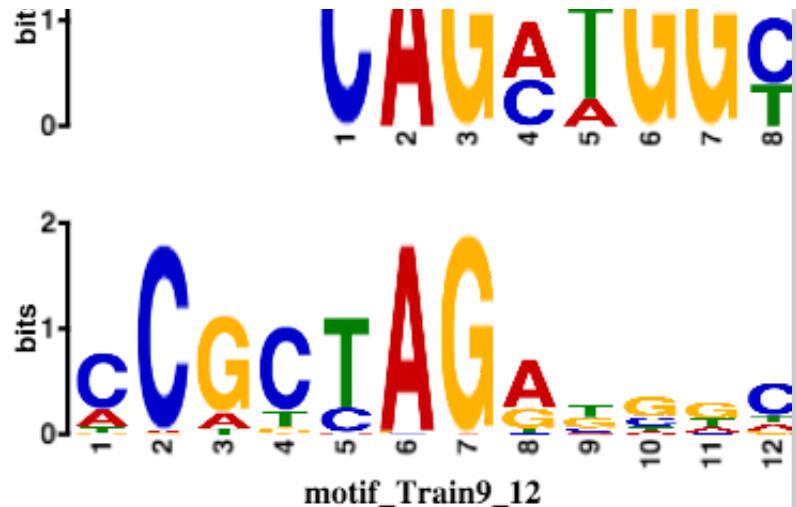
Alignment

p-value 4.62e-03
E-value 4.53e+00
q-value 6.77e-01

Overlap 8
Offset -4
Orientation Normal

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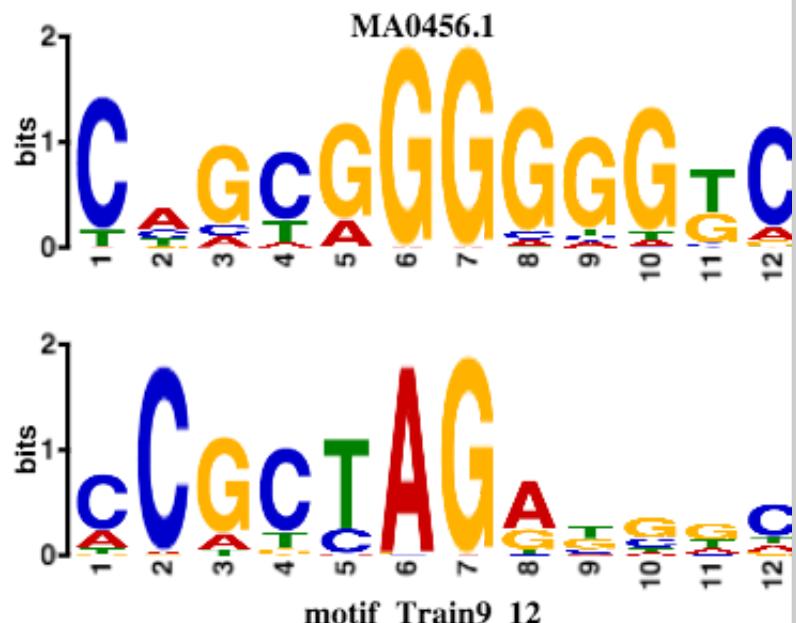
**Summary**

Name [MA0456.1 \(opa\)](#)
Database JASPAR CORE 2014

p-value 5.52e-03
E-value 5.41e+00
q-value 6.77e-01

Overlap 12
Offset 0
Orientation Reverse Complement

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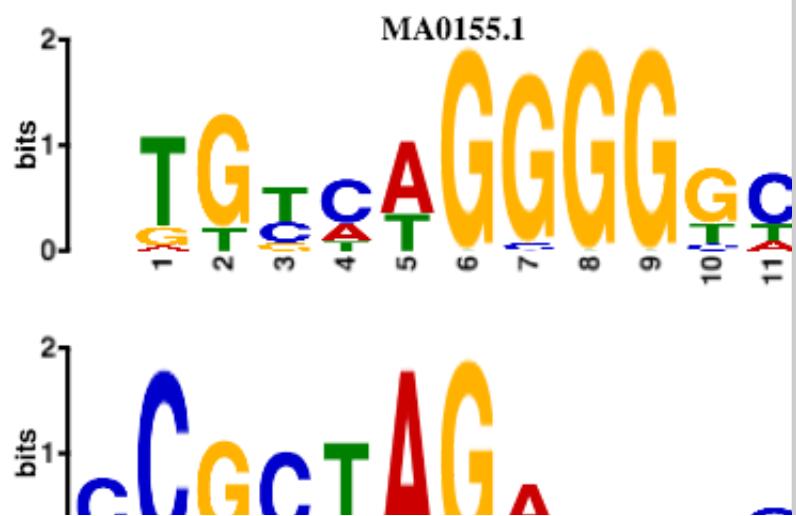
Alignment**Summary**

Name [MA0155.1 \(INSM1\)](#)
Database JASPAR CORE 2014

p-value 5.88e-03
E-value 5.76e+00
q-value 6.77e-01

Overlap 11
Offset -1
Orientation Normal

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Alignment



Summary

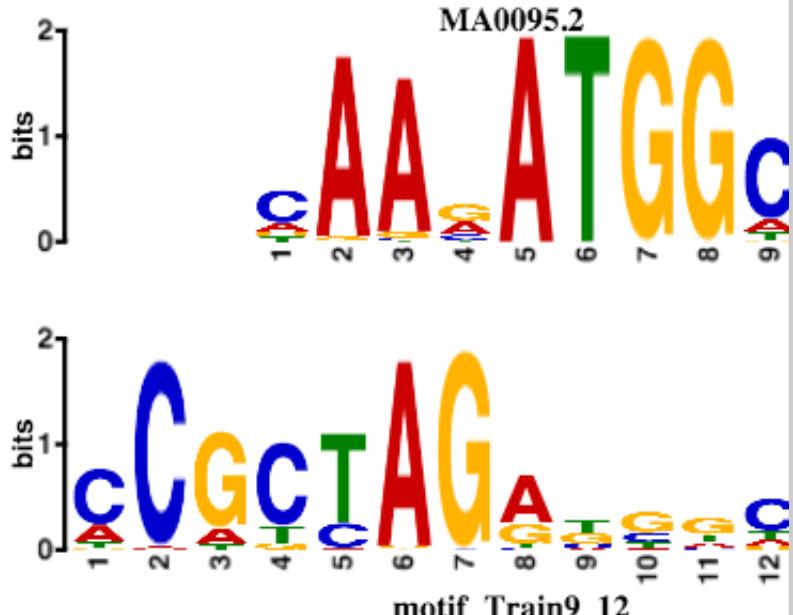
Name MA0095.2 (YY1)
Database JASPAR CORE 2014

p-value 5.88e-03
E-value 5.76e+00
q-value 6.77e-01

Overlap 9
Offset -3
Orientation Normal

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Alignment



Summary

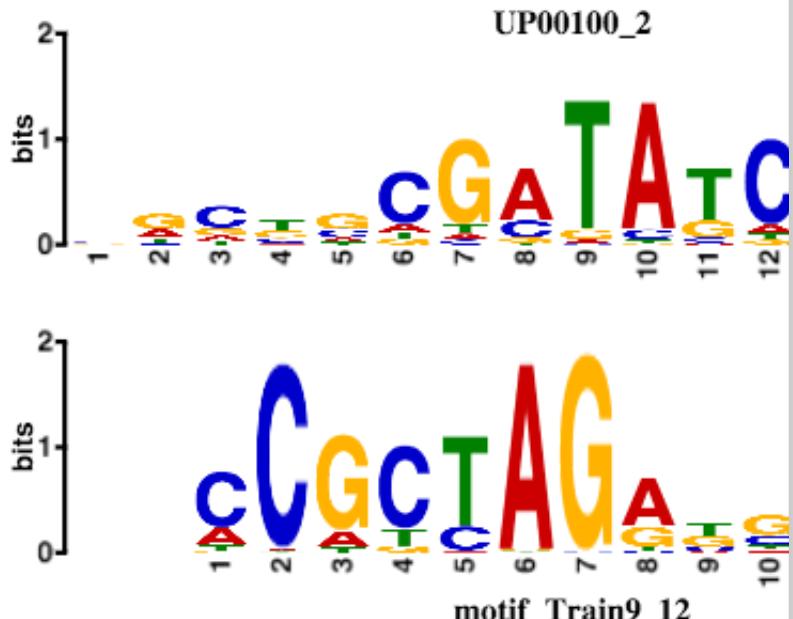
Name UP00100_2
(Gata6 secondary)
Database uniprobe mouse

p-value 8.75e-03
E-value 8.57e+00
q-value 8.26e-01

Overlap 12
Offset 2
Orientation Reverse Complement

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Alignment

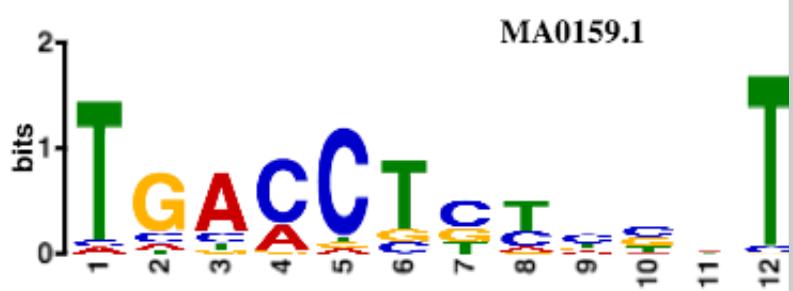


Summary

Name MA0159.1
(RXR::RAR_DR5)
Database JASPAR CORE 2014

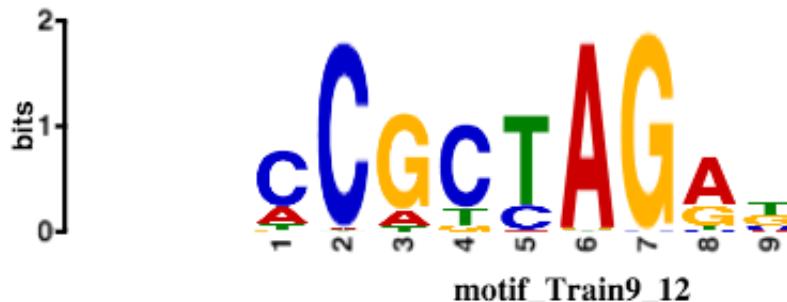
p-value 8.75e-03
E-value 8.57e+00
q-value 8.26e-01

Alignment

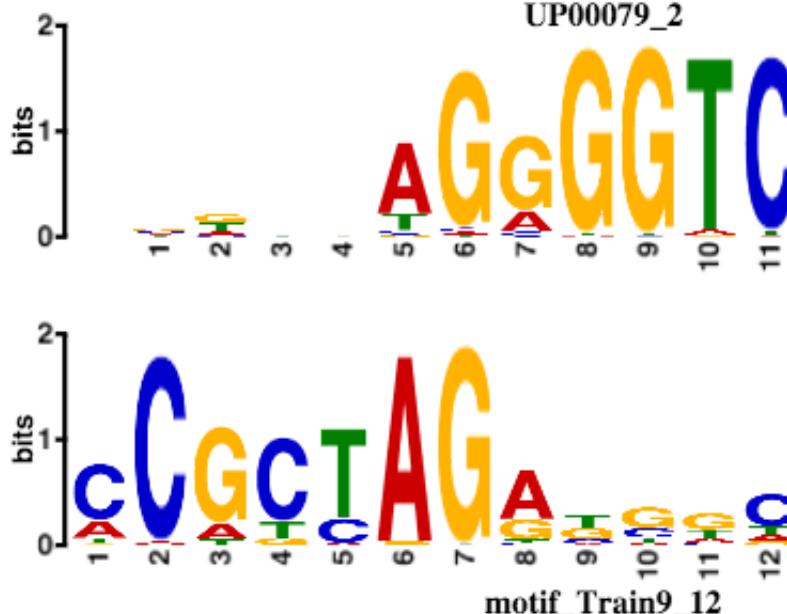


Overlap	12
Offset	3
Orientation	Reverse Complement
Show logo download options	

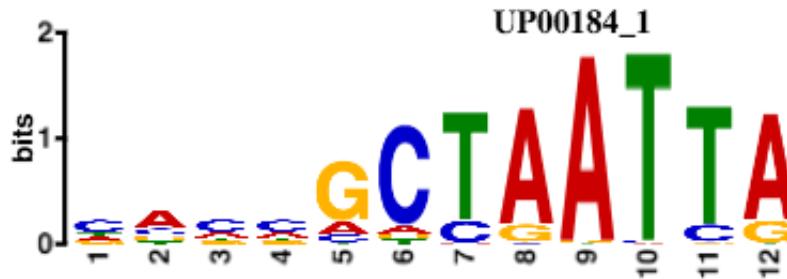
TOMTOM

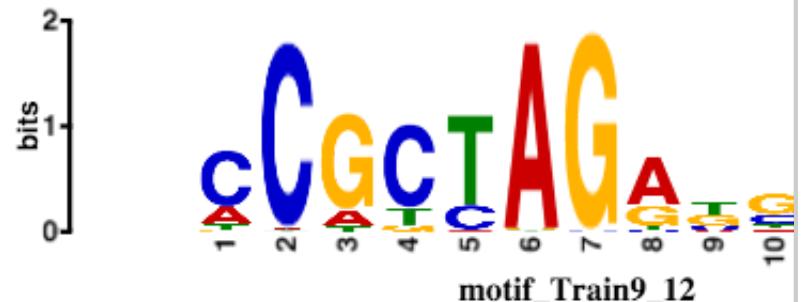
**Summary**

Name	UP00079_2 (Esrra_secondary)
Database	uniprobe mouse
p-value	8.75e-03
E-value	8.57e+00
q-value	8.26e-01
Overlap	11
Offset	-1
Orientation	Normal
Show logo download options	

Alignment**Summary**

Name	UP00184_1 (Lhx8_2247.2)
Database	uniprobe mouse
p-value	9.30e-03
E-value	9.10e+00
q-value	8.26e-01
Overlap	12
Offset	2
Orientation	Reverse Complement
Show logo download options	

Alignment



MATCHES TO MOTIF_TRAIN6_17 (17-CCGCTAGA)

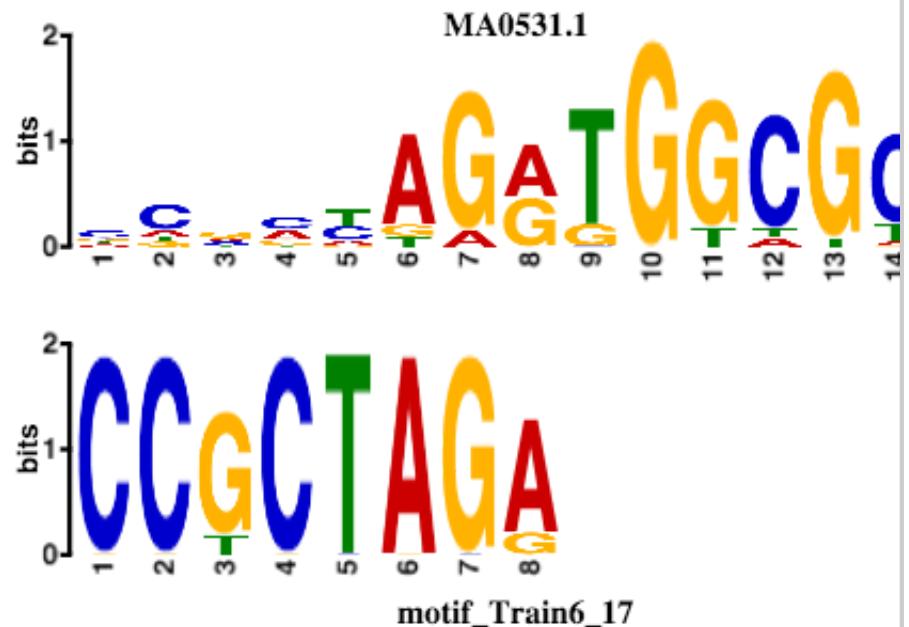
[Previous](#) [Next](#) [Top](#)

Summary

Name	MA0531.1 (CTCF)
Database	JASPAR CORE 2014
p-value	2.22e-04
E-value	2.18e-01
q-value	4.35e-01
Overlap	8
Offset	0
Orientation	Normal

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Alignment

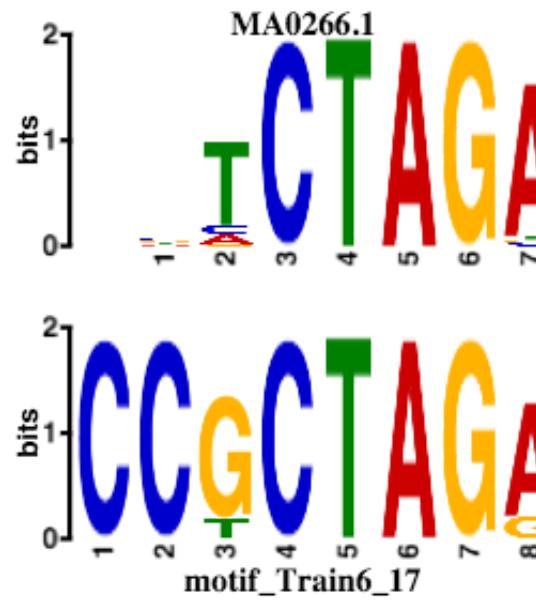


Summary

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	6.89e-04
E-value	6.74e-01
q-value	6.74e-01
Overlap	7
Offset	-1
Orientation	Normal

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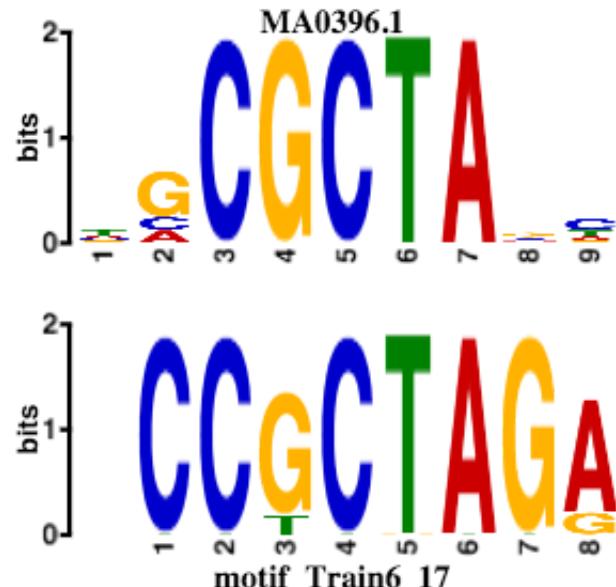
Alignment



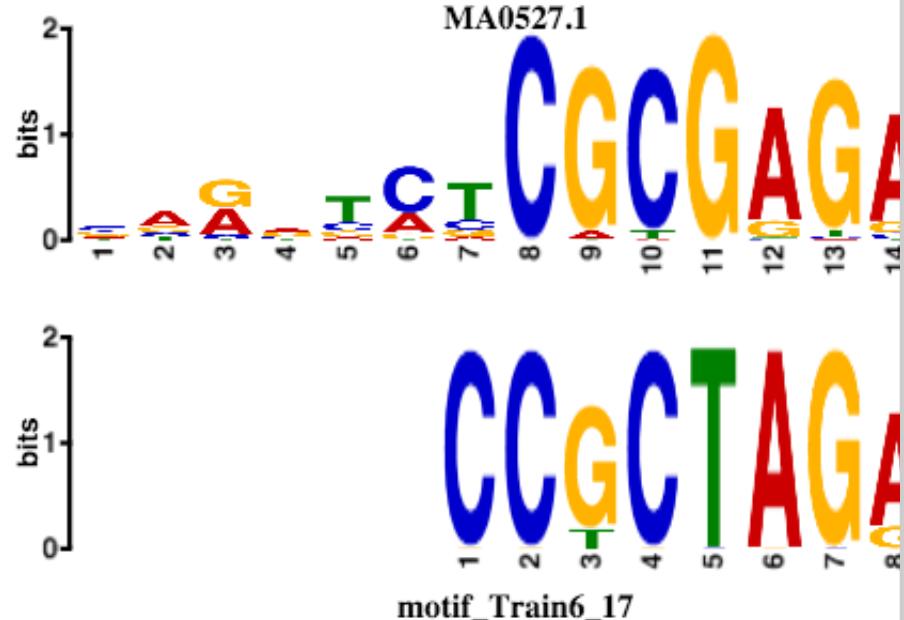
Summary

Alignment

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014
p-value	2.77e-03
E-value	2.71e+00
q-value	1.00e+00
Overlap	8
Offset	1
Orientation	Reverse Complement
Show logo download options	

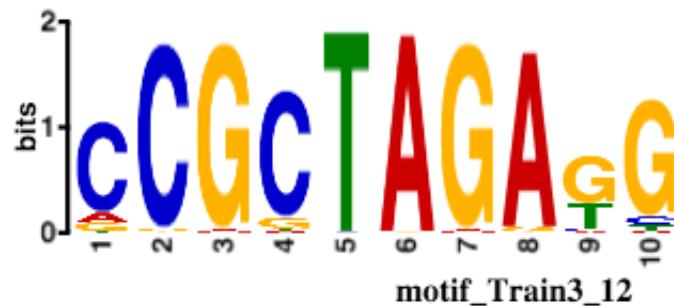
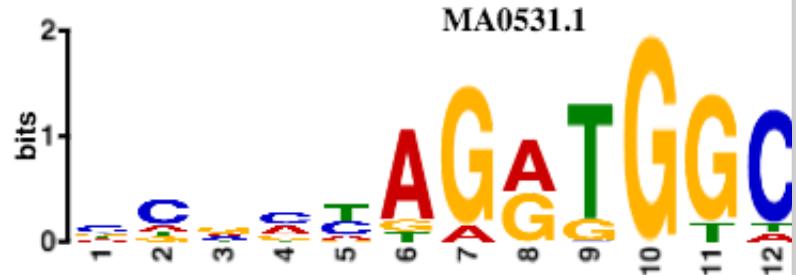
**Summary****Alignment**

Name	MA0527.1 (ZBTB33)
Database	JASPAR CORE 2014
p-value	9.08e-03
E-value	8.89e+00
q-value	1.00e+00
Overlap	8
Offset	6
Orientation	Reverse Complement
Show logo download options	

**MATCHES TO MOTIF_TRAIN3_12 (12-CCGCTAGAGG)**[Previous](#) [Next](#) [Top](#)**Summary****Alignment**

Name	MA0531.1 (CTCF)
Database	JASPAR CORE 2014
p-value	3.55e-05
E-value	3.47e-02
q-value	6.94e-02
Overlap	10

Offset 0
Orientation Normal
[Show logo download options](#)



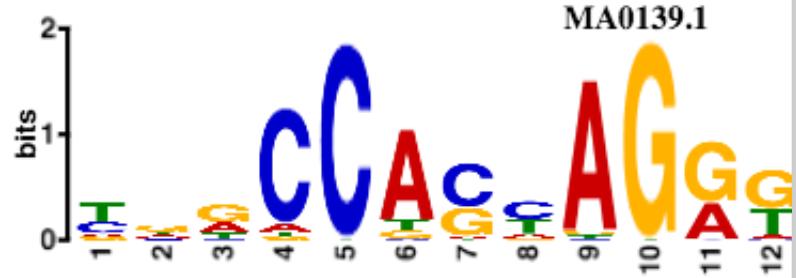
Summary

Name [MA0139.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 8.16e-04
E-value 7.99e-01
q-value 5.64e-01

Overlap 10
Offset 3
Orientation Normal
[Show logo download options](#)

Alignment



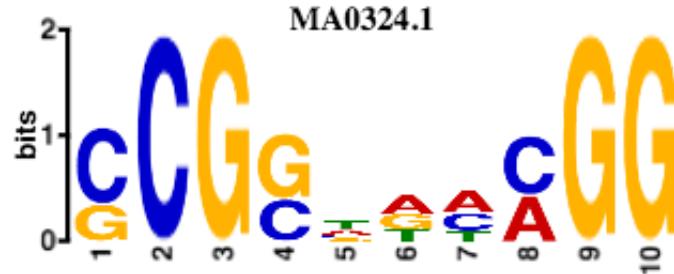
Summary

Name [MA0324.1 \(LEU3\)](#)
Database JASPAR CORE 2014

p-value 1.09e-03
E-value 1.06e+00
q-value 5.64e-01

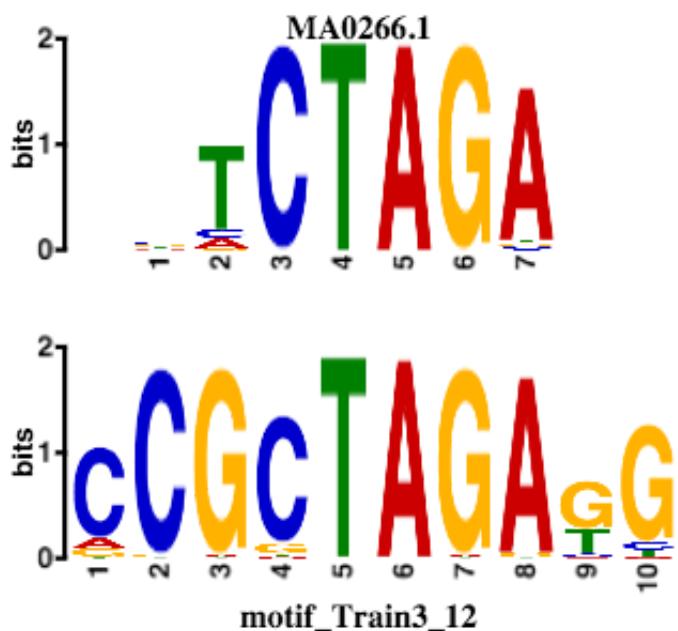
Overlap 10
Offset 0
Orientation Reverse Complement
[Show logo download options](#)

Alignment

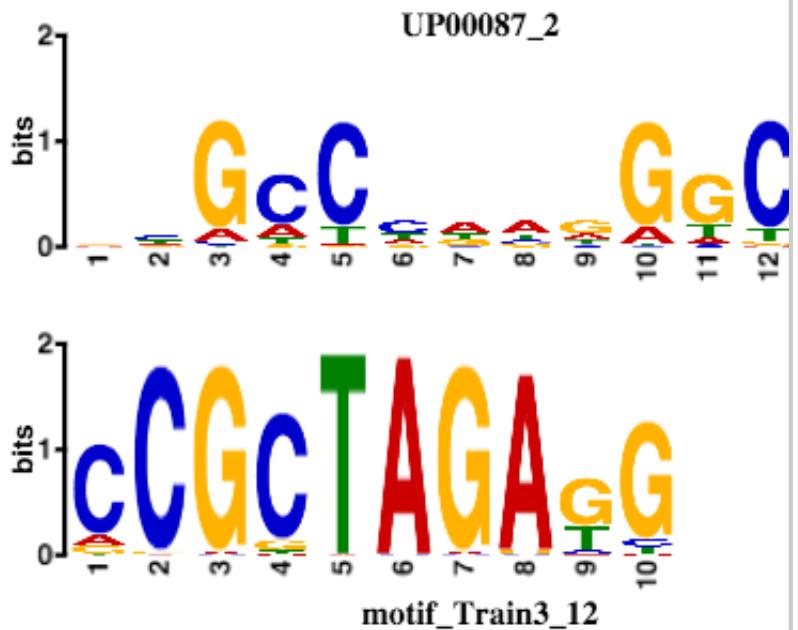


**Summary****Alignment**

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	1.15e-03
E-value	1.13e+00
q-value	5.64e-01
Overlap	7
Offset	-1
Orientation	Normal
Show logo download options	

**Summary****Alignment**

Name	UP00087_2 (Tcfap2c_secondary)
Database	uniprobe mouse
p-value	4.19e-03
E-value	4.10e+00
q-value	1.00e+00
Overlap	10
Offset	0
Orientation	Normal
Show logo download options	

**Summary****Alignment**

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014



p-value 5.00e-03
E-value 4.90e+00
q-value 1.00e+00

Overlap 8
Offset 1
Orientation Reverse Complement
[Show logo download options](#)



Summary

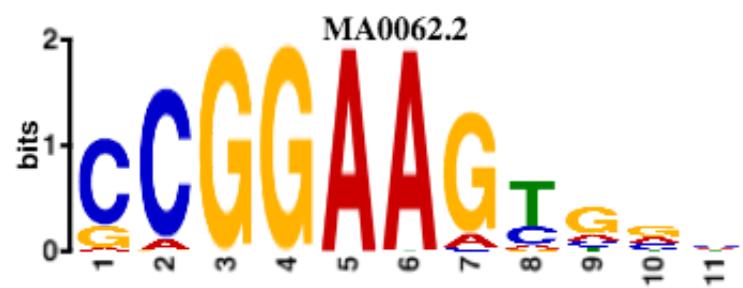
Name [MA0062.2 \(GABPA\)](#)
Database JASPAR CORE 2014

p-value 7.47e-03
E-value 7.31e+00
q-value 1.00e+00

Overlap 10
Offset 0
Orientation Normal

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Alignment



Summary

Name [MA0076.2 \(ELK4\)](#)
Database JASPAR CORE 2014

p-value 7.81e-03
E-value 7.64e+00
q-value 1.00e+00

Overlap 10
Offset 1
Orientation Reverse Complement

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Alignment



1 2 3 4 5 6 7 8 9 10

motif_Train3_12

MATCHES TO MOTIF_TRAIN7_6 (10-CGCYAGWKNG)

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Summary

Name [MA0531.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 3.60e-06
E-value 3.52e-03
q-value 7.02e-03

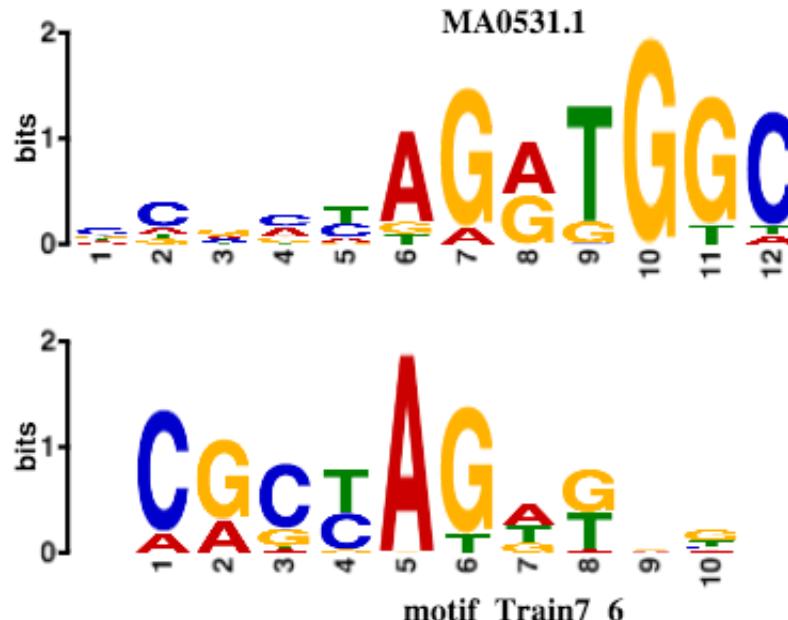
Overlap 10

Offset 1

Orientation Normal

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Alignment



Summary

Name [MA0139.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 4.40e-05
E-value 4.31e-02
q-value 4.29e-02

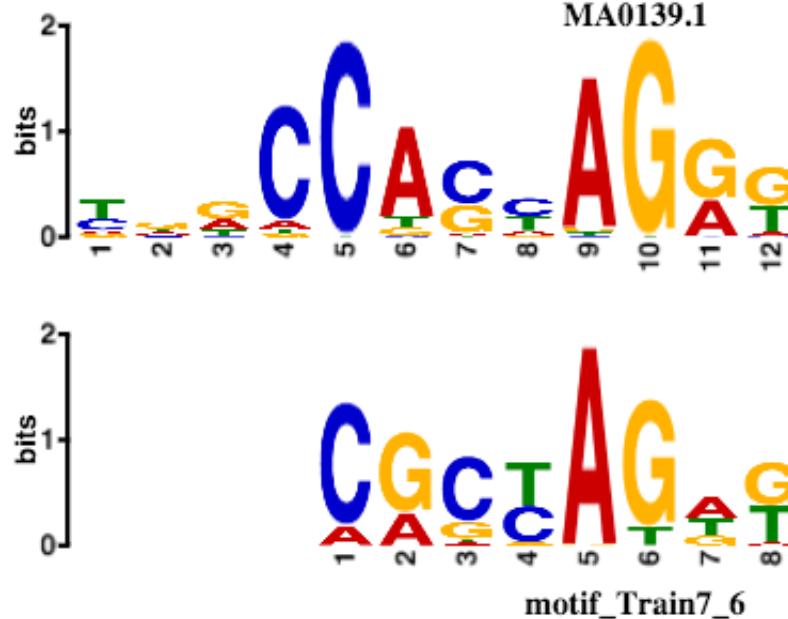
Overlap 10

Offset 4

Orientation Normal

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Alignment



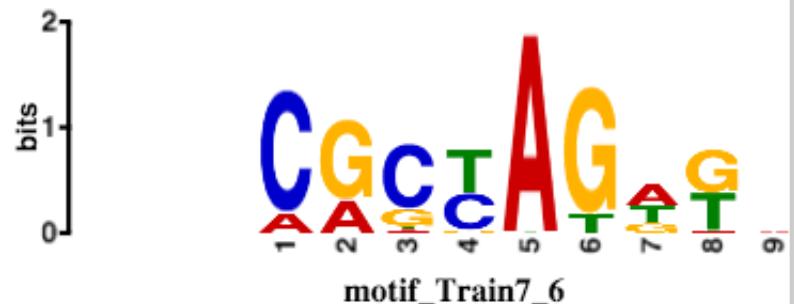
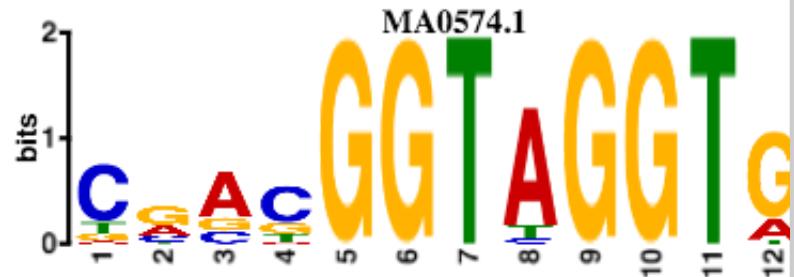
Summary

Name [MA0574.1 \(AtMYB15\)](#)
Database JASPAR CORE 2014

p-value 1.08e-03
E-value 1.06e+00

Alignment

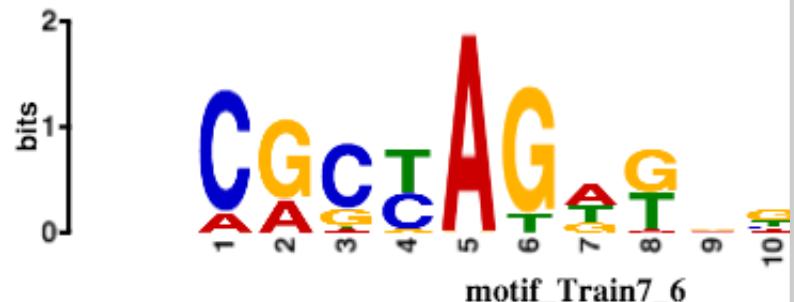
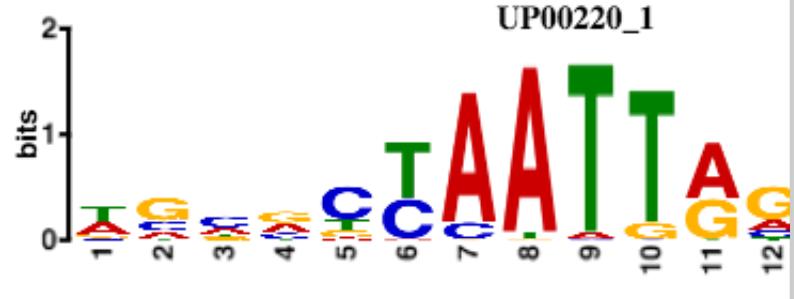
q-value	4.40e-01
Overlap	10
Offset	3
Orientation	Normal
Show logo download options	



Summary

Name	UP00220_1 (Nkx1-1_3856.3)
Database	uniprobe mouse
p-value	1.13e-03
E-value	1.10e+00
q-value	4.40e-01
Overlap	10
Offset	2
Orientation	Normal
Show logo download options	

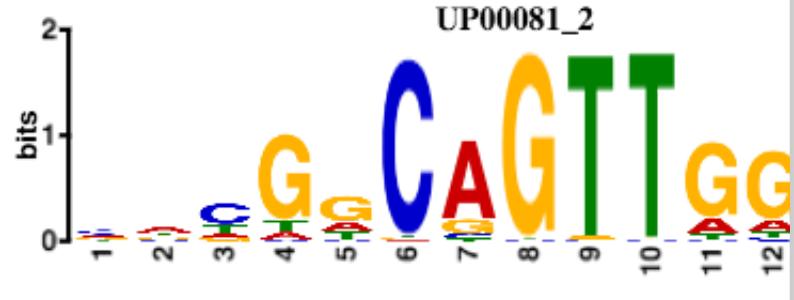
Alignment



Summary

Name	UP00081_2 (Mybl1_secondary)
Database	uniprobe mouse
p-value	1.70e-03
E-value	1.67e+00
q-value	4.60e-01
Overlap	10
Offset	2
Orientation	Reverse Complement
Show logo download options	

Alignment

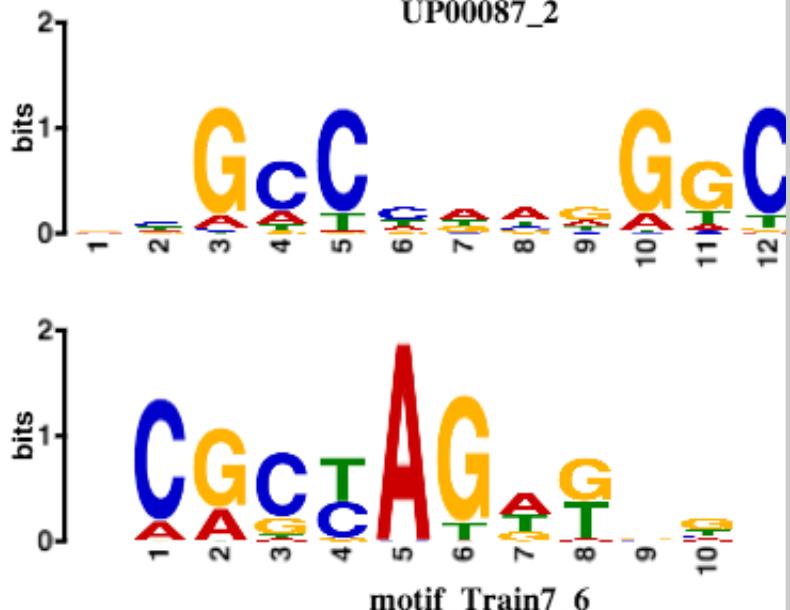


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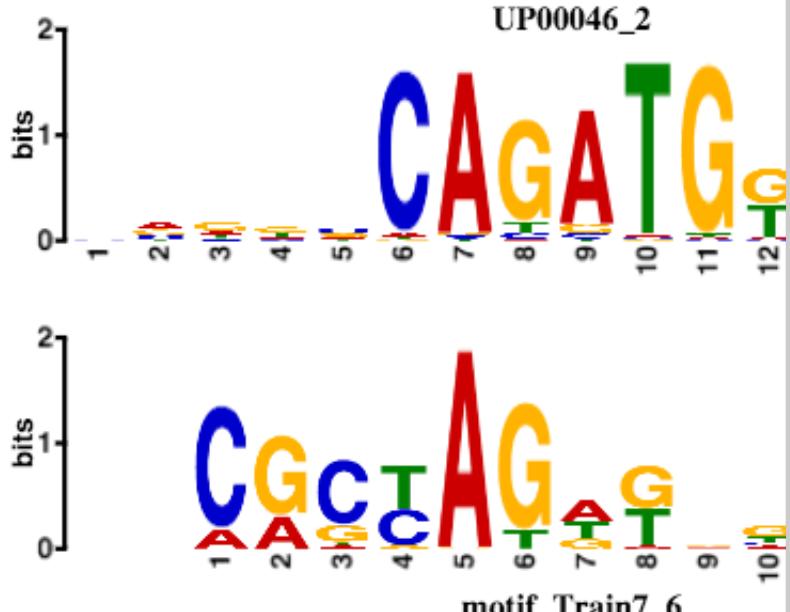
TOMTOM

**Summary****Alignment**

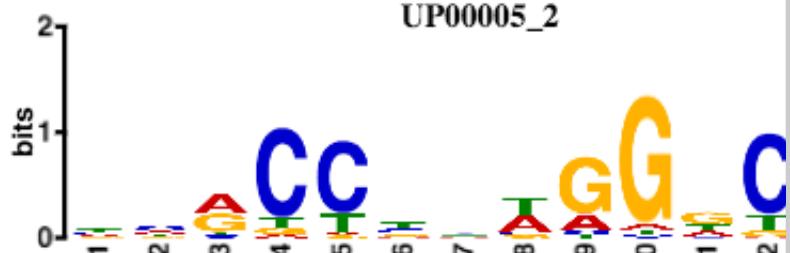
Name	UP00087_2 (Tcfap2c secondary)
Database	uniprobe mouse
p-value	1.85e-03
E-value	1.81e+00
q-value	4.60e-01
Overlap	10
Offset	1
Orientation	Normal

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

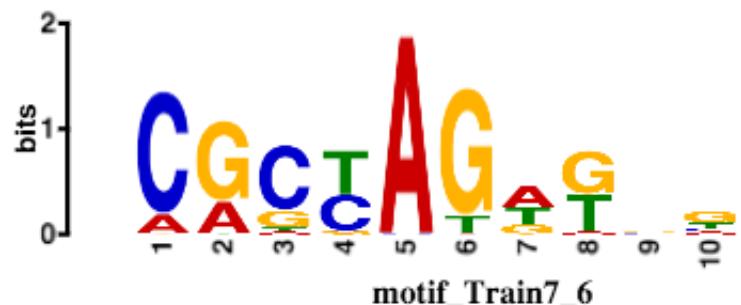
Name	UP00046_2 (Tcfe2a secondary)
Database	uniprobe mouse
p-value	1.89e-03
E-value	1.85e+00
q-value	4.60e-01
Overlap	10
Offset	2
Orientation	Normal

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

Name	UP00005_2 (Tcfap2a secondary)
Database	uniprobe mouse
p-value	2.36e-03
E-value	2.31e+00



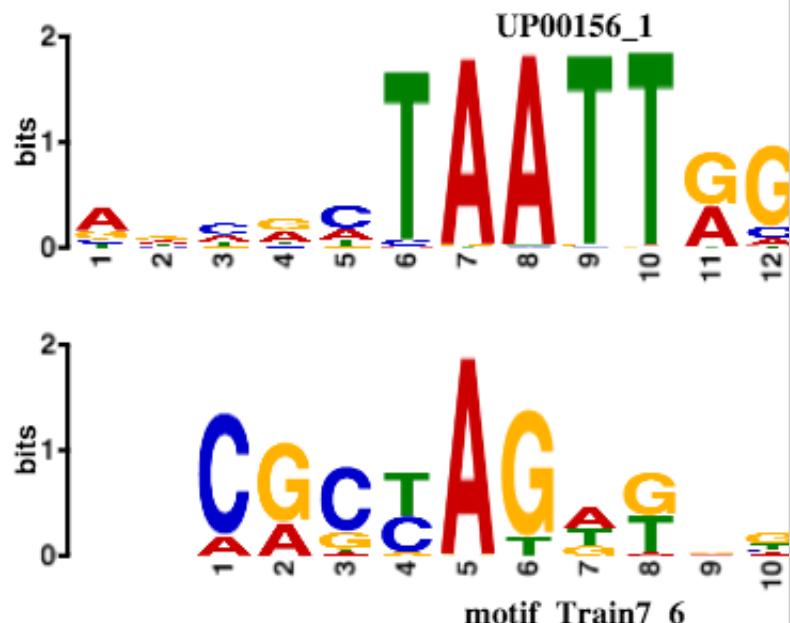
q-value	4.72e-01
Overlap	10
Offset	1
Orientation	Normal
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Summary

Name	UP00156_1 (Msx2_3449.1)
Database	uniprobe mouse
p-value	2.42e-03
E-value	2.37e+00
q-value	4.72e-01
Overlap	10
Offset	2
Orientation	Reverse Complement
Show logo download options	

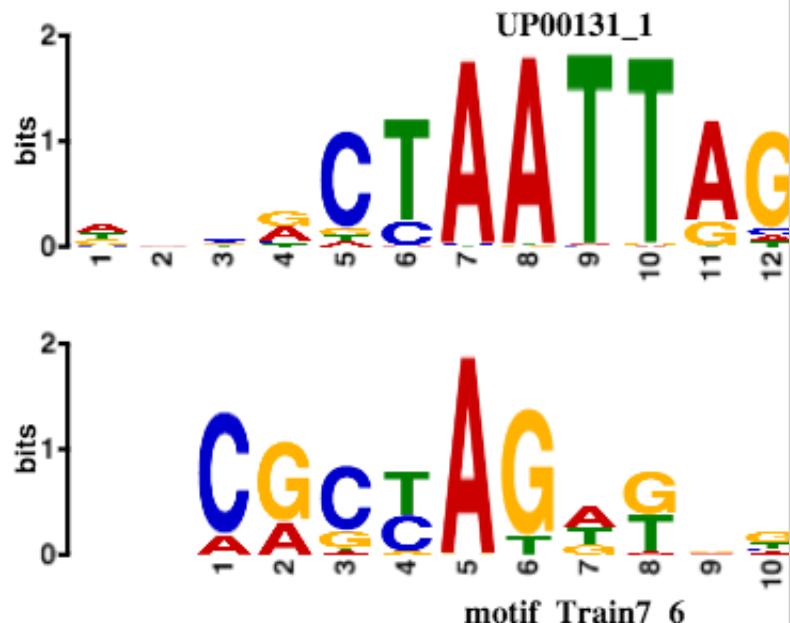
Alignment



Summary

Name	UP00131_1 (Gbx2_3110.1)
Database	uniprobe mouse
p-value	4.25e-03
E-value	4.16e+00
q-value	6.55e-01
Overlap	10
Offset	2
Orientation	Normal
Show logo download options	

Alignment



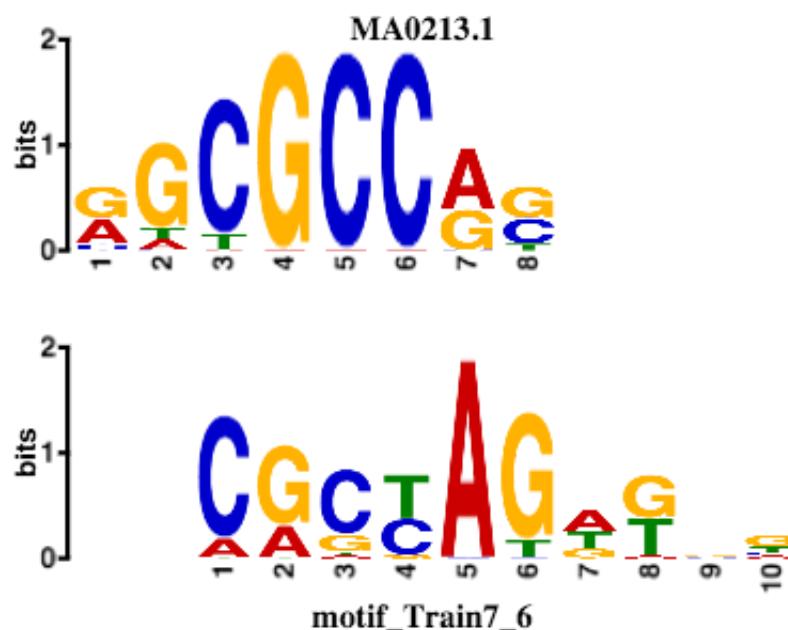
Summary

Name	MA0213.1 (brk)
Database	JASPAR CORE 2014

Alignment

p-value	4.28e-03
E-value	4.19e+00
q-value	6.55e-01
Overlap	6
Offset	2
Orientation	Reverse Complement

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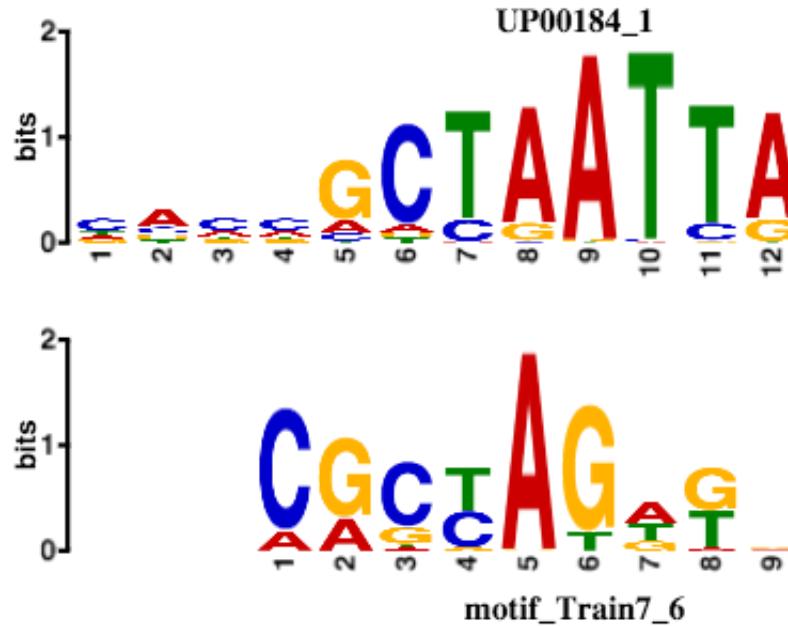


Summary

Name	UP00184_1 (Lhx8_2247.2)
Database	uniprobe mouse
p-value	4.96e-03
E-value	4.86e+00
q-value	6.55e-01
Overlap	10
Offset	3
Orientation	Reverse Complement

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Alignment



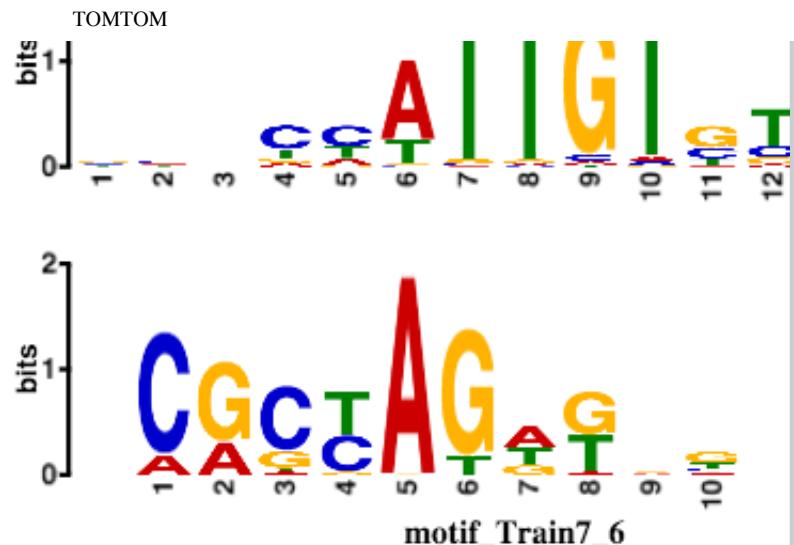
Summary

Name	UP00004_2 (Sox14_secondary)

Alignment



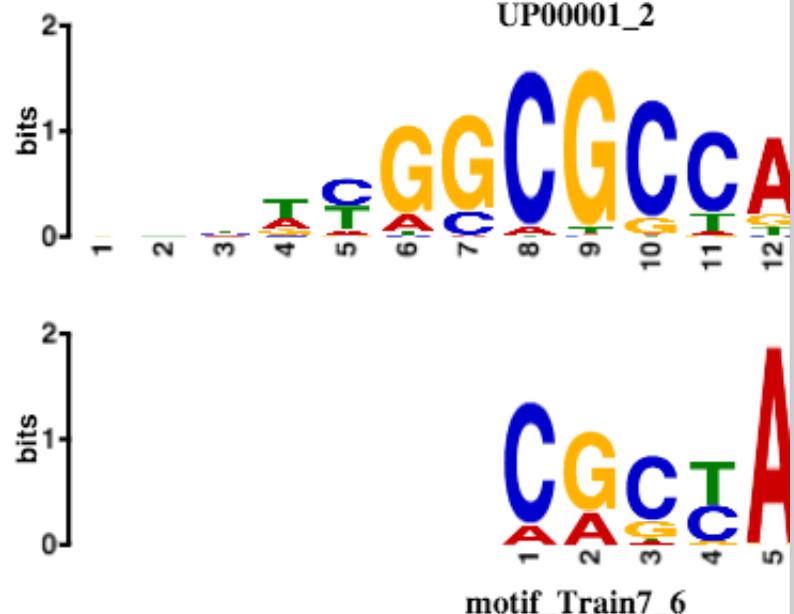
Database	uniprobe mouse
p-value	5.20e-03
E-value	5.09e+00
q-value	6.55e-01
Overlap	10
Offset	1
Orientation	Reverse Complement
	Show logo download options



Summary

Alignment

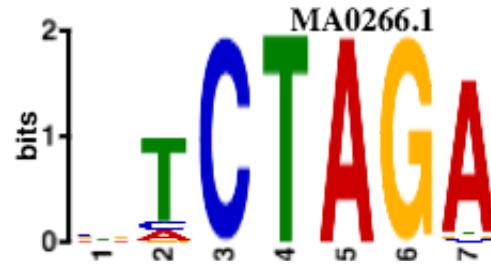
Name	UP00001_2 (E2F2 secondary)
Database	uniprobe mouse
p-value	6.25e-03
E-value	6.12e+00
q-value	6.55e-01
Overlap	10
Offset	7
Orientation	Normal
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Summary

Alignment

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	6.66e-03
E-value	6.52e+00
q-value	6.55e-01



q-value

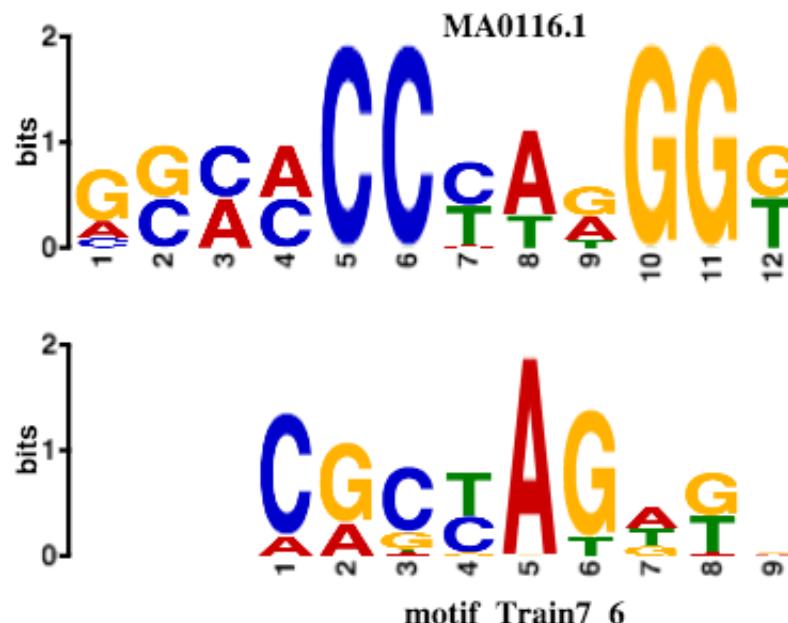
0.55e-01

Overlap	7
Offset	0
Orientation	Normal
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TOMTOM

**Summary**

Name	MA0116.1 (Zfp423)
Database	JASPAR CORE 2014
p-value	7.03e-03
E-value	6.88e+00
q-value	6.55e-01
Overlap	10
Offset	3
Orientation	Normal
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Alignment**Summary**

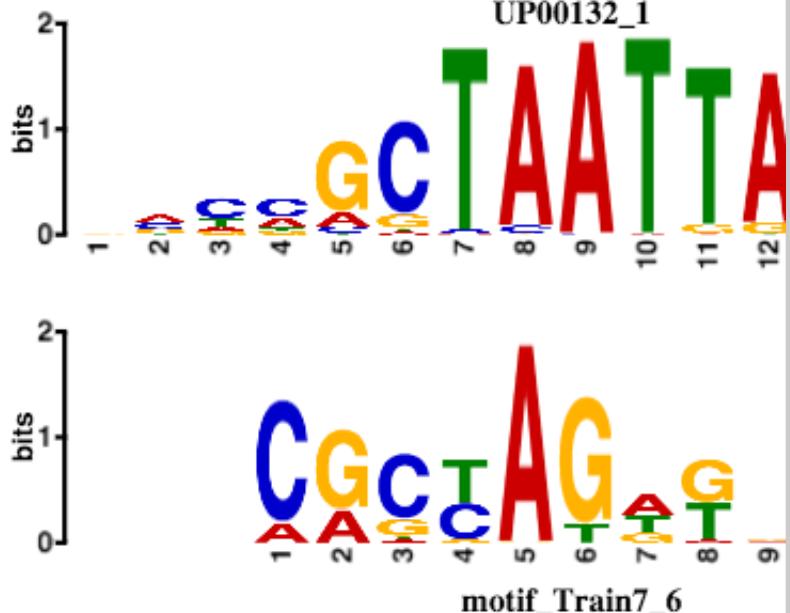
Name	UP00084_1 (Gmeb1_primary)
Database	uniprobe mouse
p-value	7.27e-03
E-value	7.11e+00
q-value	6.55e-01
Overlap	10
Offset	7
Orientation	Normal
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Alignment

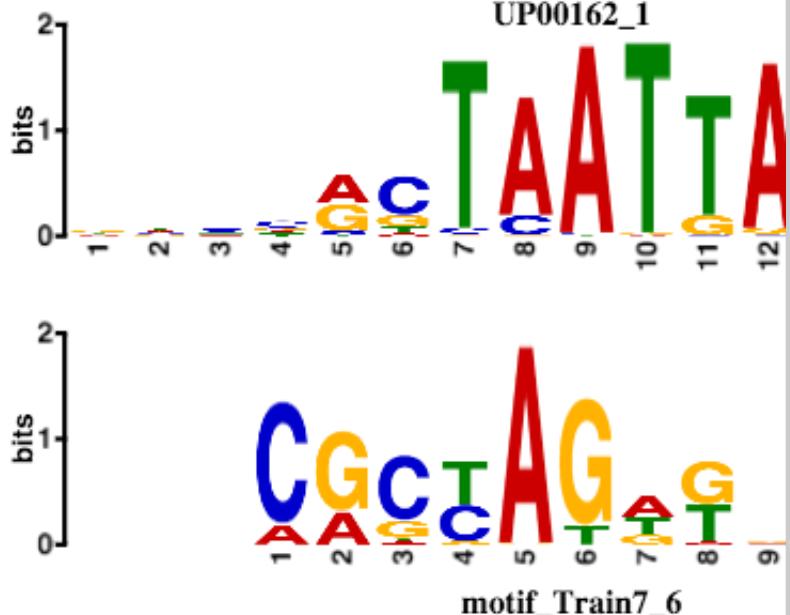
motif_Train7_6

Summary

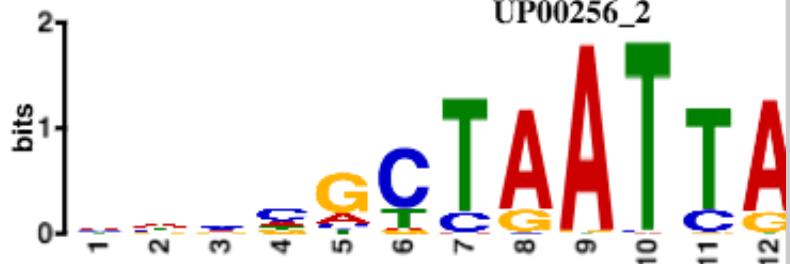
Name	UP00132_1 (Evx2_2645.3)
Database	uniprobe mouse
p-value	7.27e-03
E-value	7.11e+00
q-value	6.55e-01
Overlap	10
Offset	3
Orientation	Normal

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

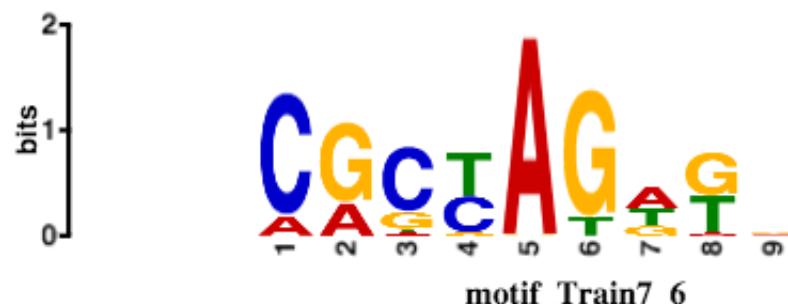
Name	UP00162_1 (Evx1_3952.2)
Database	uniprobe mouse
p-value	7.83e-03
E-value	7.67e+00
q-value	6.55e-01
Overlap	10
Offset	3
Orientation	Reverse Complement

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

Name	UP00256_2 (Lhx6_3432.1)
Database	uniprobe mouse
p-value	7.83e-03
E-value	7.67e+00
q-value	6.55e-01
Overlap	10

Alignment

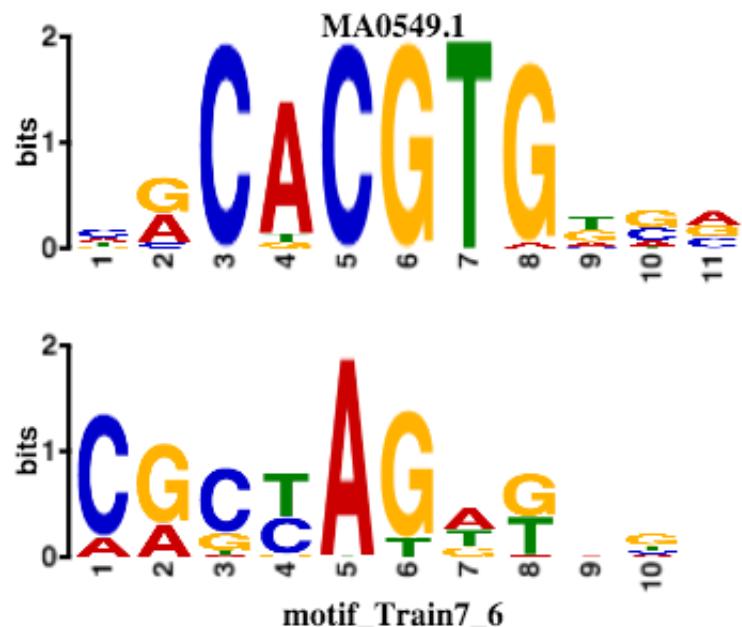
Offset 3
Orientation Reverse Complement
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**Summary**

Name [MA0549.1 \(BES1\)](#)
Database JASPAR CORE 2014

p-value 7.85e-03
E-value 7.68e+00
q-value 6.55e-01

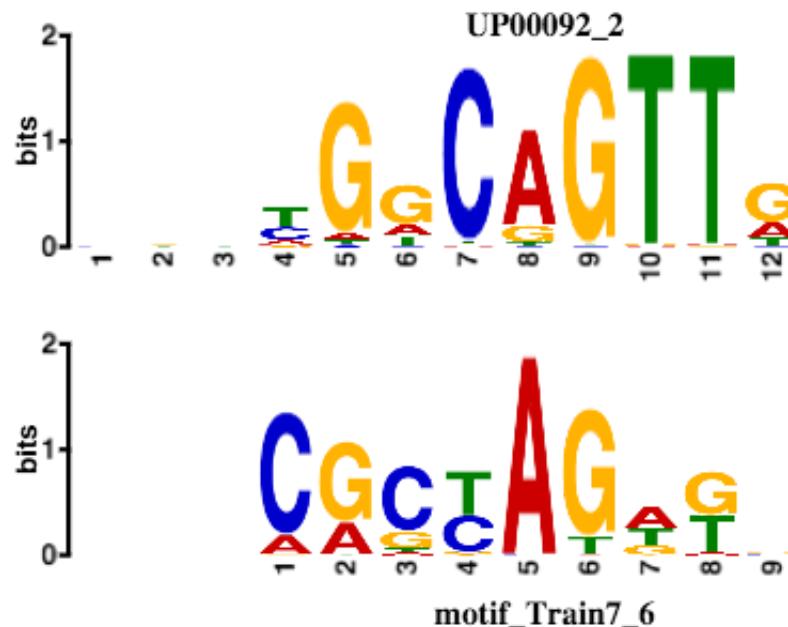
Overlap 10
Offset 0
Orientation Normal
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Alignment**Summary**

Name [UP00092_2 \(Myb_secondary\)](#)
Database uniprobe mouse

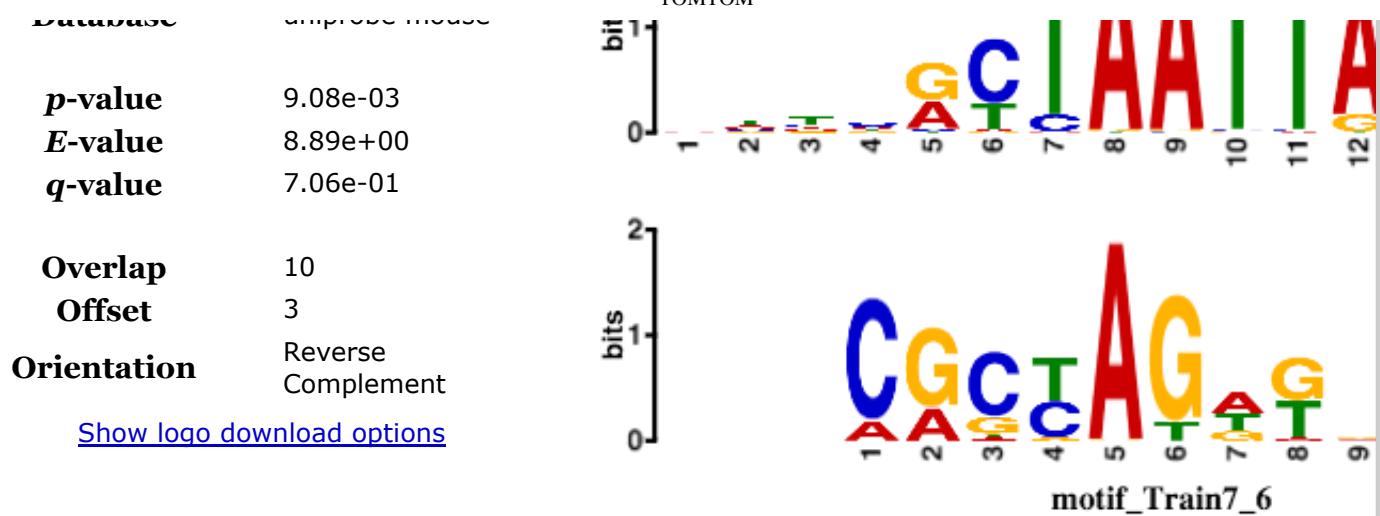
p-value 8.06e-03
E-value 7.89e+00
q-value 6.55e-01

Overlap 10
Offset 3
Orientation Reverse Complement
[Show logo download options](#)

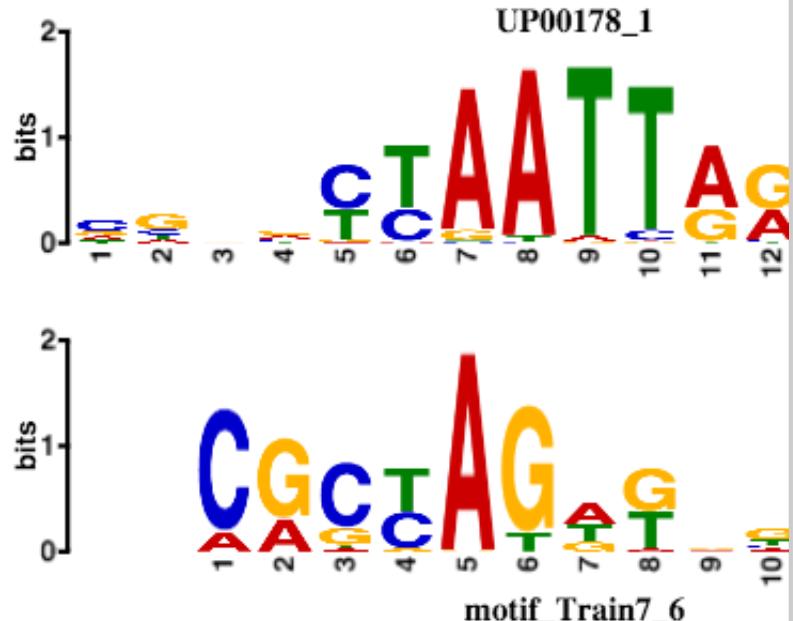
Alignment**Summary**

Name [UP00136_1 \(Prrx2_3072.1\)](#)
Database uniprobe mouse

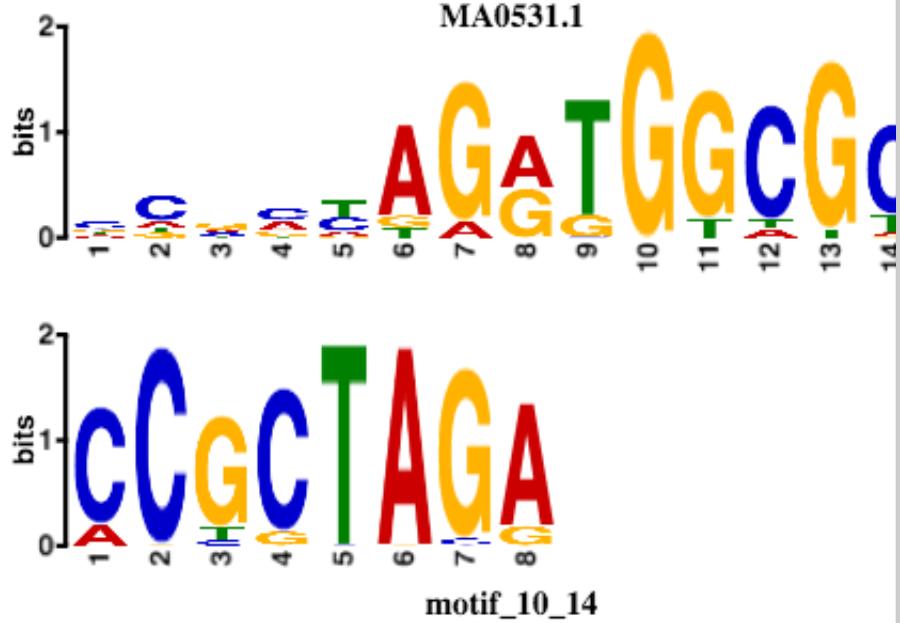
Alignment

**Summary**

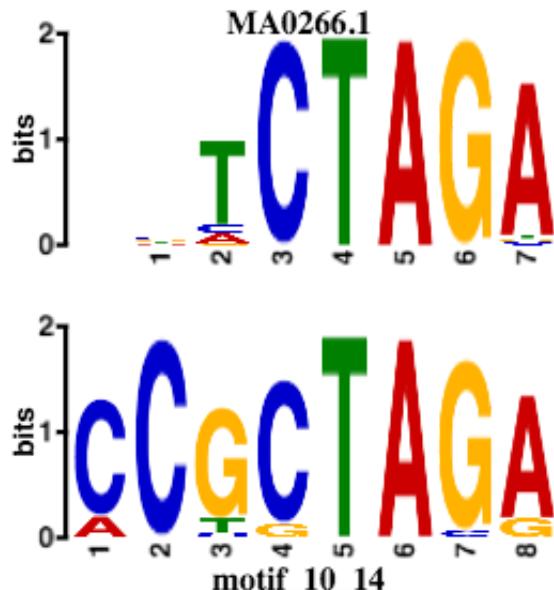
Name	UP00178_1 (Og2x 3719.1)
Database	uniprobe mouse
p-value	9.77e-03
E-value	9.56e+00
q-value	7.06e-01
Overlap	10
Offset	2
Orientation	Normal
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Alignment**MATCHES TO MOTIF_10_14 (15-CCGCTAGA)**
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Summary

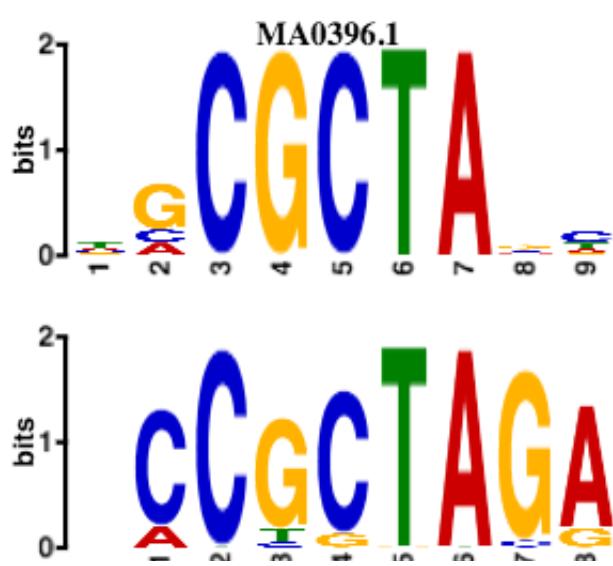
Name	MA0531.1 (CTCF)
Database	JASPAR CORE 2014
p-value	2.40e-04
E-value	2.35e-01
q-value	4.69e-01
Overlap	8
Offset	0
Orientation	Normal

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

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014
p-value	6.01e-04
E-value	5.89e-01
q-value	5.89e-01
Overlap	7
Offset	-1
Orientation	Normal

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

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014
p-value	2.69e-03
E-value	2.64e+00
q-value	1.00e+00
Overlap	8
Offset	1
Orientation	Reverse Complement



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motif_10_14

MATCHES TO MOTIF_TRAIN2_13 (16-CCGCTAGAGG)

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Summary

Name [MA0531.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 5.48e-05
E-value 5.37e-02
q-value 1.07e-01

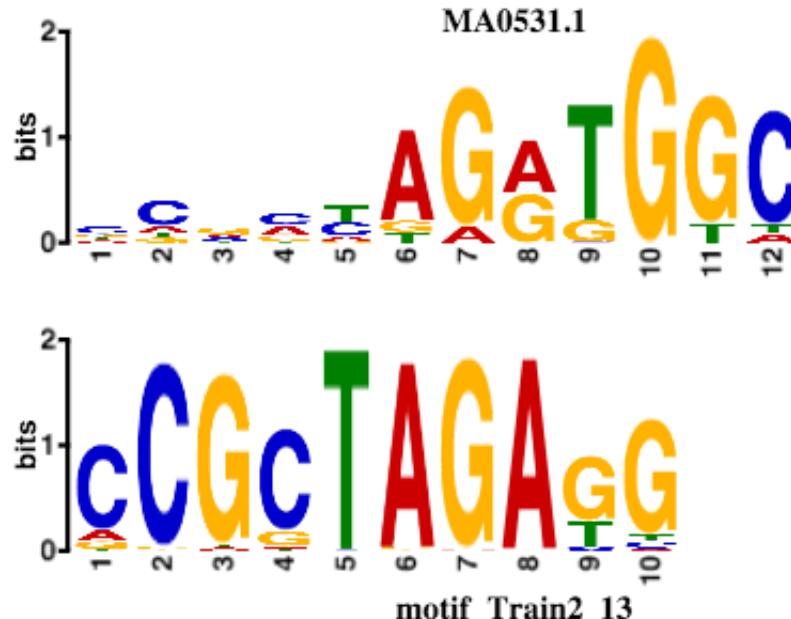
Overlap 10

Offset 0

Orientation Normal

[Show logo download options](#)

Alignment



Summary

Name [MA0324.1 \(LEU3\)](#)
Database JASPAR CORE 2014

p-value 8.36e-04
E-value 8.18e-01
q-value 5.86e-01

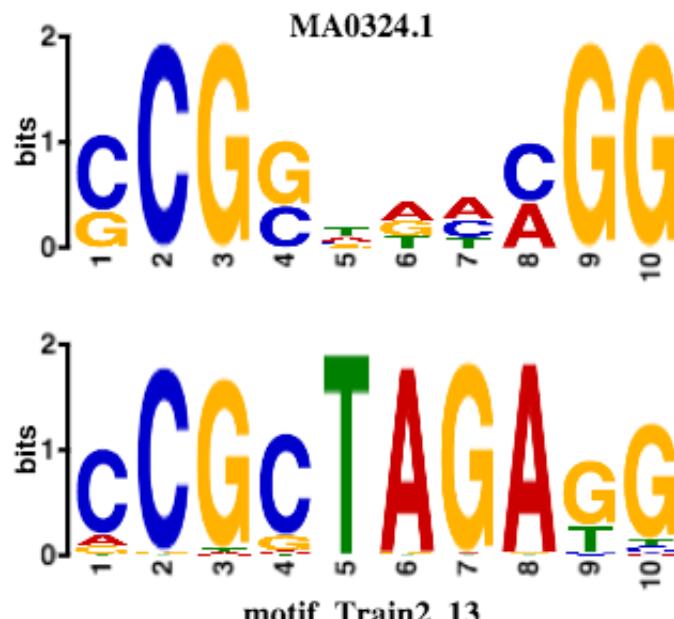
Overlap 10

Offset 0

Orientation Reverse Complement

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Alignment



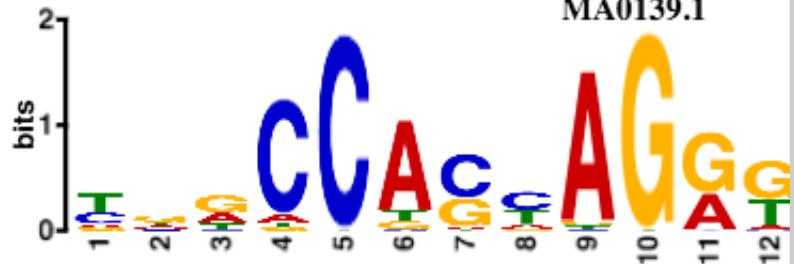
Summary

Name [MA0139.1 \(CTCF\)](#)
Database JASPAR CORE 2014

p-value 8.98e-04
E-value 8.79e-01

Alignment

q-value	5.86e-01
Overlap	10
Offset	3
Orientation	Normal
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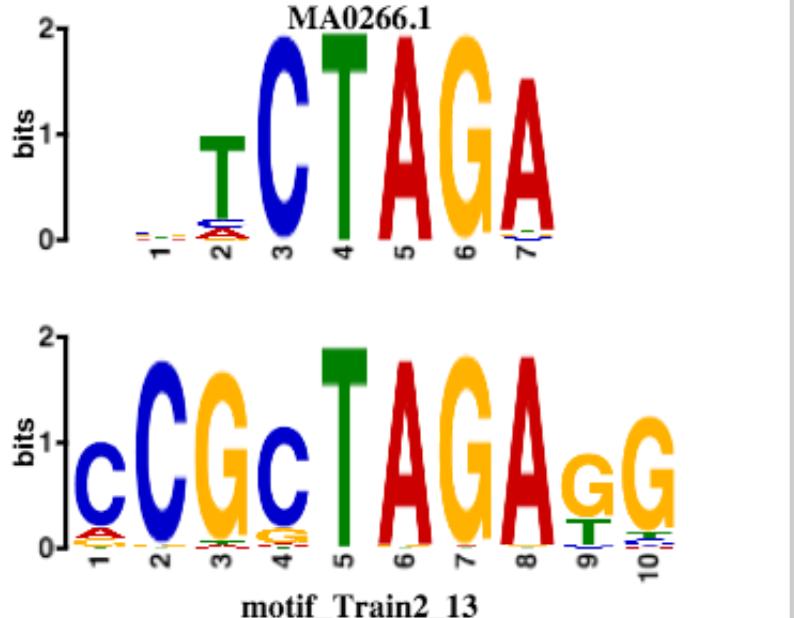
Summary

Name	MA0266.1 (ABF2)
Database	JASPAR CORE 2014

p-value	1.24e-03
E-value	1.22e+00
q-value	6.08e-01

Overlap	7
Offset	-1
Orientation	Normal
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Alignment



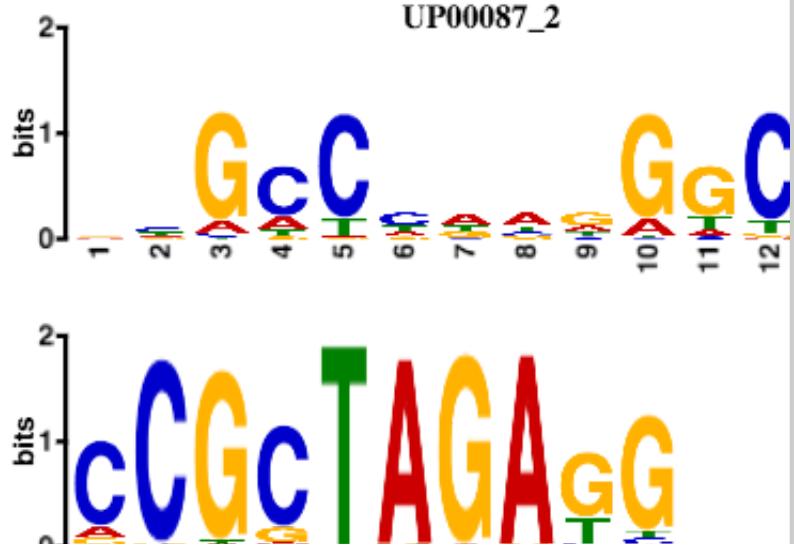
Summary

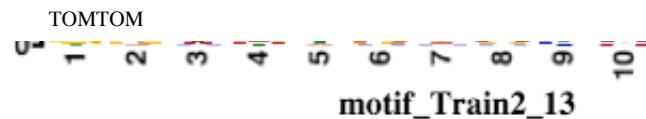
Name	UP00087_2 (Tcfap2c secondary)
Database	uniprobe mouse

p-value	3.75e-03
E-value	3.67e+00
q-value	1.00e+00

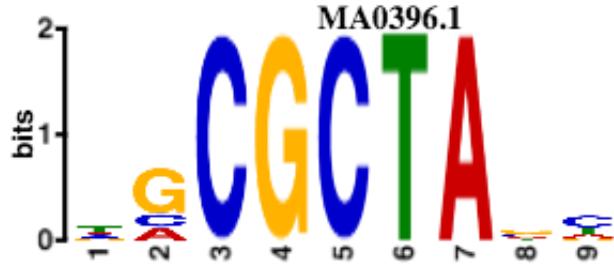
Overlap	10
Offset	0
Orientation	Normal
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Alignment

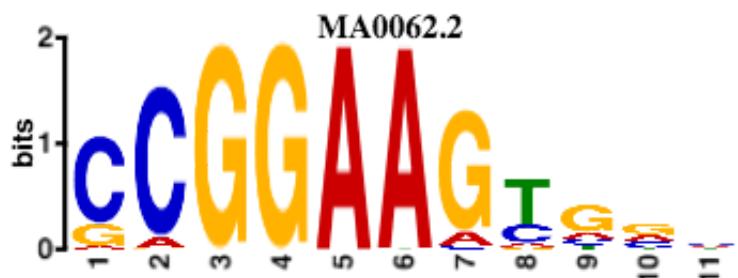


**Summary****Alignment**

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014
p-value	5.44e-03
E-value	5.32e+00
q-value	1.00e+00
Overlap	8
Offset	1
Orientation	Reverse Complement

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

Name	MA0062.2 (GABPA)
Database	JASPAR CORE 2014
p-value	5.89e-03
E-value	5.76e+00
q-value	1.00e+00
Overlap	10
Offset	0
Orientation	Normal

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

Name	MA0076.2 (ELK4)
Database	JASPAR CORE 2014
p-value	5.89e-03
E-value	5.76e+00
a-value	1.00e+00



Overlap 10
Offset 1
Orientation Reverse Complement
[Show logo download options](#)



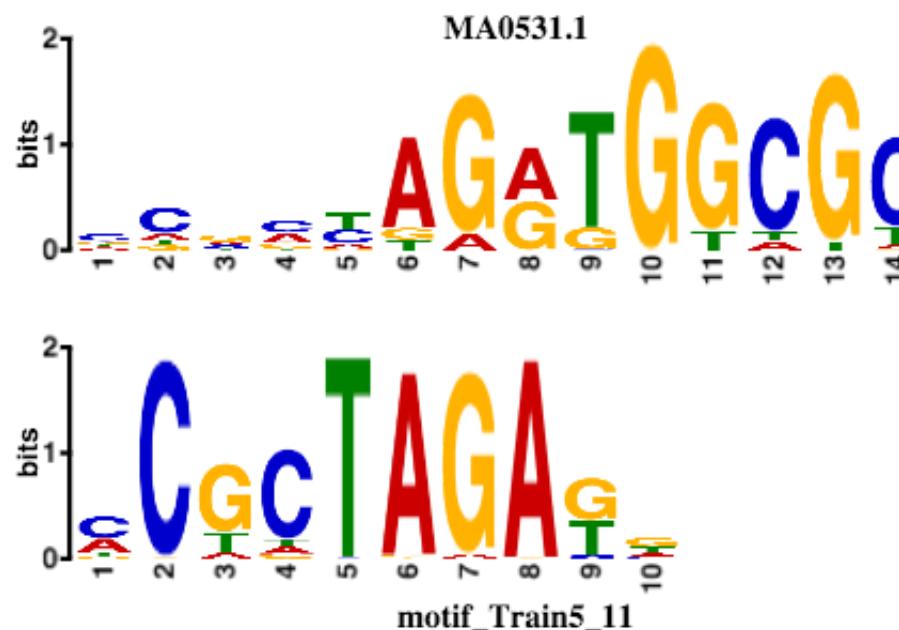
MATCHES TO MOTIF_TRAIN5_11 (10-CCGCTAGAKG)

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Summary

Name [MA0531.1 \(CTCF\)](#)
Database JASPAR CORE 2014
p-value 4.26e-05
E-value 4.17e-02
q-value 8.34e-02
Overlap 10
Offset 0
Orientation Normal
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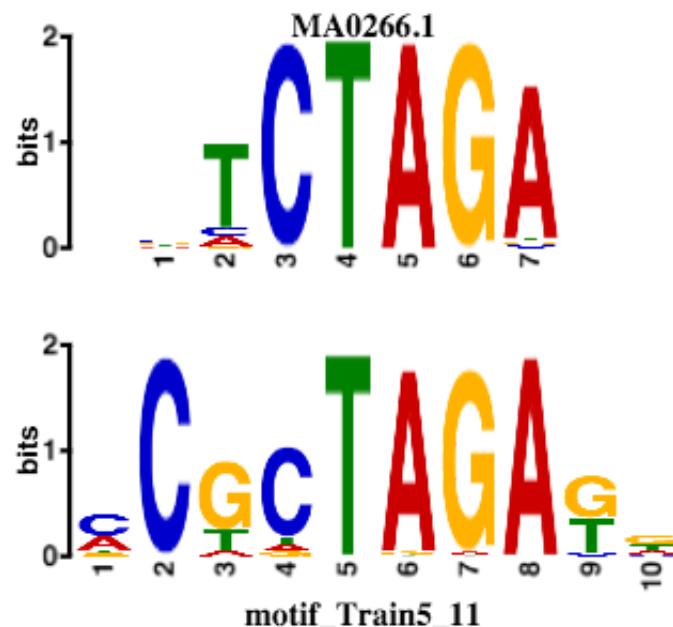
Alignment



Summary

Name [MA0266.1 \(ABF2\)](#)
Database JASPAR CORE 2014
p-value 3.90e-04
E-value 3.82e-01
q-value 3.82e-01
Overlap 7
Offset -1
Orientation Normal
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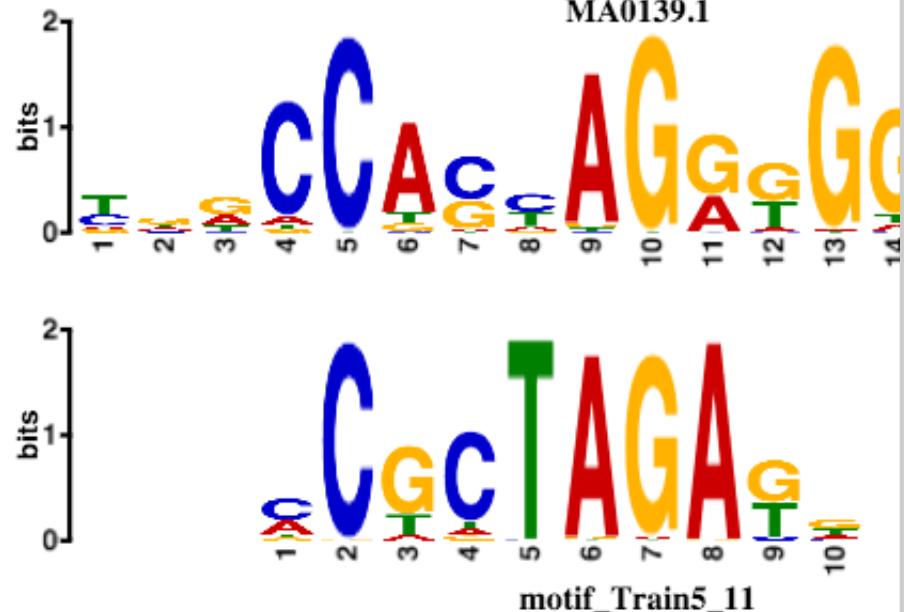
Alignment



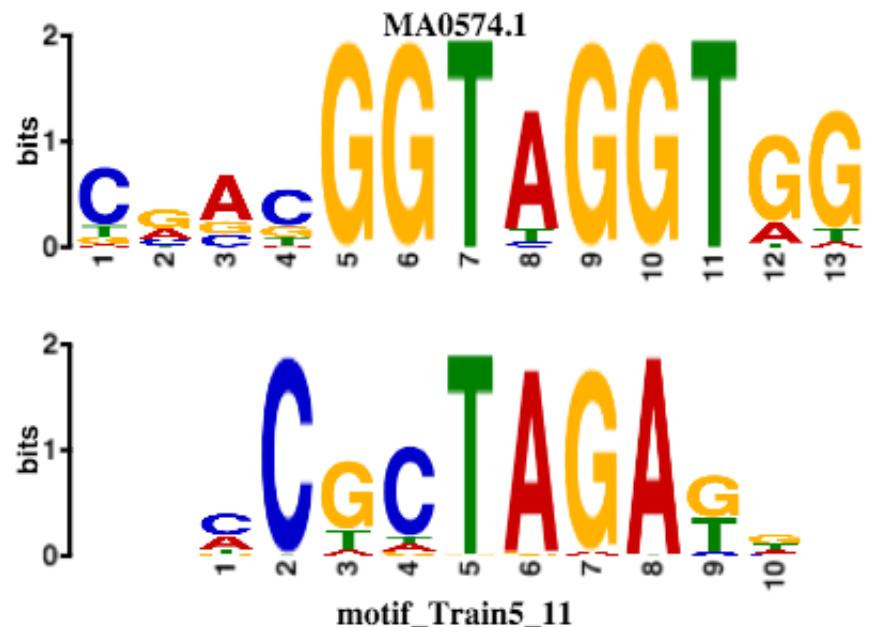
Summary

Alignment

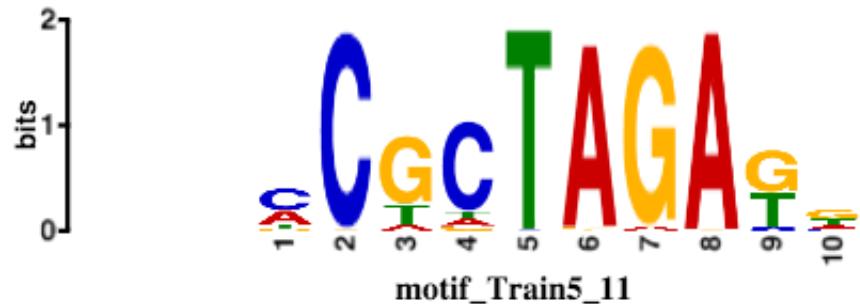
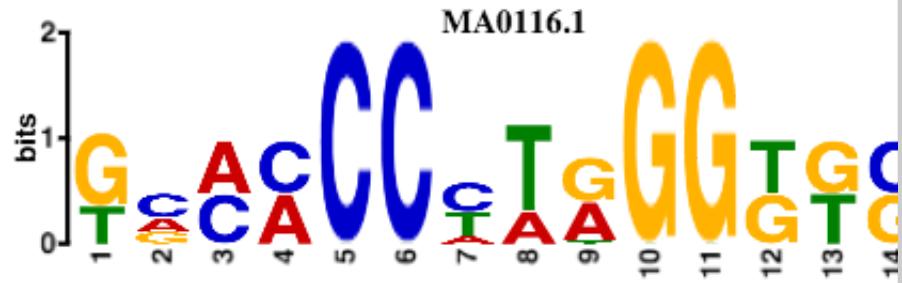
Name	MA0139.1 (CTCF)
Database	JASPAR CORE 2014
p-value	1.79e-03
E-value	1.75e+00
q-value	1.00e+00
Overlap	10
Offset	3
Orientation	Normal
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**Summary****Alignment**

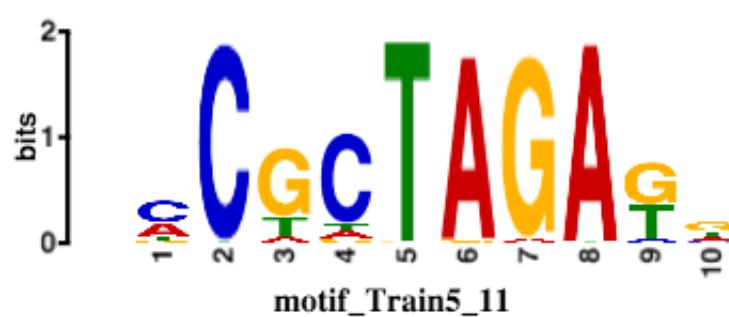
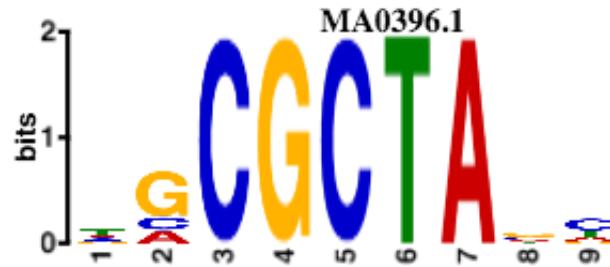
Name	MA0574.1 (AtMYB15)
Database	JASPAR CORE 2014
p-value	5.83e-03
E-value	5.71e+00
q-value	1.00e+00
Overlap	10
Offset	2
Orientation	Normal
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**Summary****Alignment**

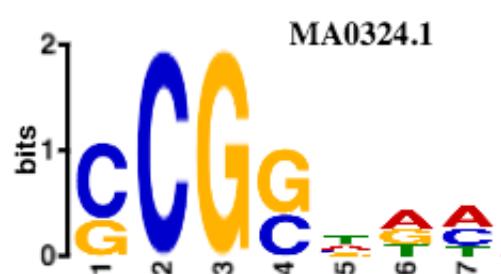
Name	MA0116.1 (Zfp423)
Database	JASPAR CORE 2014
p-value	5.96e-03
E-value	5.83e+00
q-value	1.00e+00
Overlap	10
Offset	3
Orientation	Reverse Complement

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

Name	MA0396.1 (STP3)
Database	JASPAR CORE 2014
p-value	5.98e-03
E-value	5.86e+00
q-value	1.00e+00
Overlap	8
Offset	1
Orientation	Reverse Complement

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

Name	MA0324.1 (LEU3)
Database	JASPAR CORE 2014
p-value	6.11e-03
E-value	5.98e+00
q-value	1.00e+00
Overlap	10
Offset	0
Orientation	Reverse Complement



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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 -evalue -thresh 10.0 motif_group1.txt
```

Result calculation took 6.616 seconds

