

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]

QUERY MOTIFS | TARGET DATABASES | MATCHES | SETTINGS | PROGRAM INFORMATION

QUERY MOTIFS

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QUERT MIOT					INCAL TOP
Database	Name	Alt. Name	Preview	Matches	
motif group4	motif_10_25	22- GTCTTCAGGGAC	ġŢĊŢŢĊĄĠĠĠ ĄĊ	7	MA0154 MA0364
motif group4	motif_Train1_19	22- GTCTTCAGGGAC	CTCTTCAGGG _G	5	MA0154 MA0364
motif group4	motif_Train3_18	20- GTCTTCAGGGAC	[‡] GŢĊŢŢÇĄĢĢĢĄÇ	6	MA0154 MA0364
motif group4	motif_Train4_22	20- GTCTTCAGGGAC	[‡] GTCTTÇA _R Ç	5	MA0154 MA0364
motif group4	motif_Train5_21	20- GTCTTCAGGGAC	¹ GTCTTÇAşşÇ _A ş	6	MA0154 MA0026
motif group4	motif_Train6_26	22- GTCTTCAGGGAC	ETCTTÇAGGGAÇ	7	MA0154 MA0364
motif group4	motif_Train7_24	23- TCTTCAGGGA	*]TCTTCAGGGA	6	MA0154 MA0364
motif group4	motif_Train8_23	23- CKTCAGGGAY	¹ C _₹ ŢÇAGGG _A ç	8	MA0364 UP00066
motif group4	motif_Train9_20	21- GTGTCTTCAGGG	ij <mark>Ġ^{ĸĕ}ĬĊĬĬĈŸ</mark> Ġ [®] Ġ	5	MA0154 MA0364

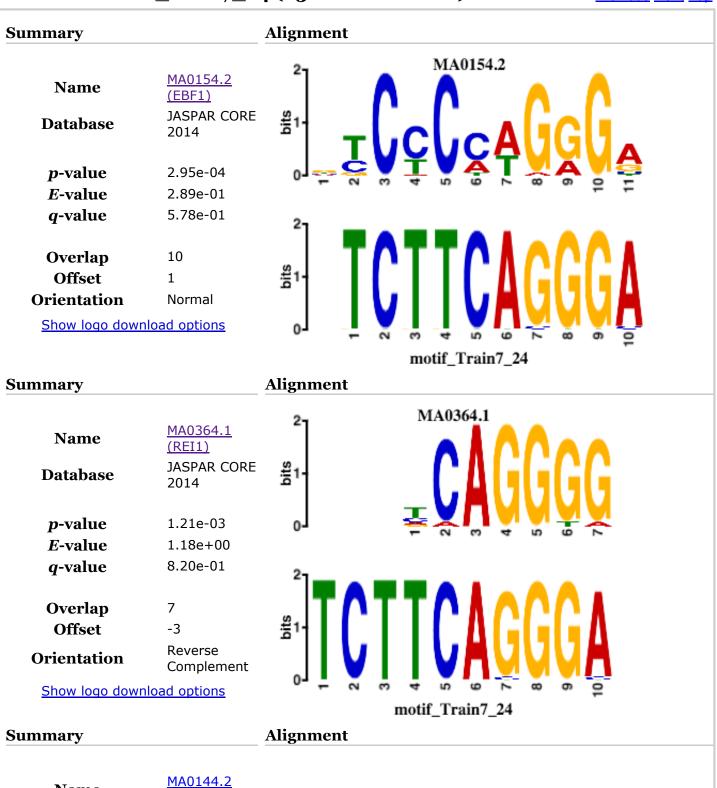
TARGET DATABASES

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

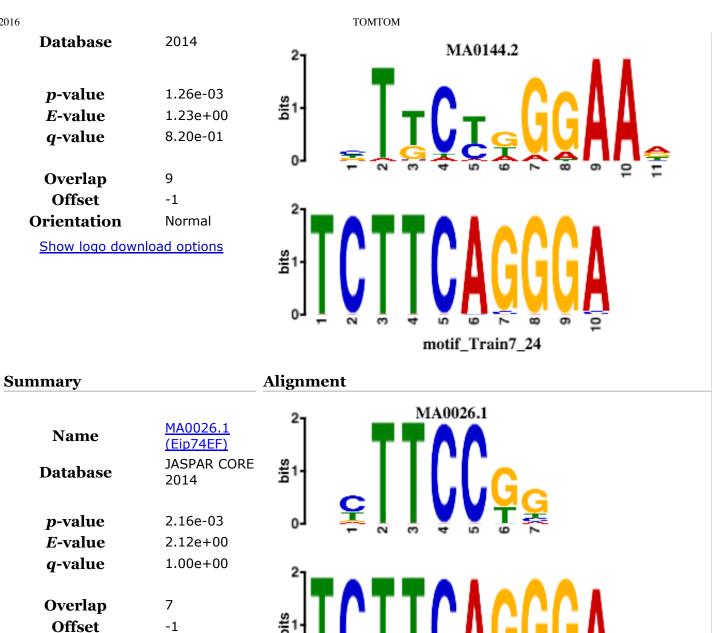
MATCHES TO MOTIF_TRAIN7_24 (23-TCTTCAGGGA)

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(STAT3)

Name



Show logo download options

Orientation

Alignment Summary

Reverse

Complement

		2 ₇ UP00015_1	
Name	<u>UP00015 1</u> (Ehf primary)		
Database	uniprobe mouse	ET CT CG T	
<i>p</i> -value	8.38e-03	이	, -
<i>E</i> -value	8.21e+00	- 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	١ '
<i>q</i> -value	1.00e+00	21	
Overlap	10		
Offset	2	器1-	
Orientation	Reverse Complement	IVIIVAUUUA	

motif_Train7_24

Complement

L٥

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TOMTOM

motif_Train7_24

Summary Alignment

 Name
 MA0518.1 (Stat4)

 Database
 JASPAR CORE 2014

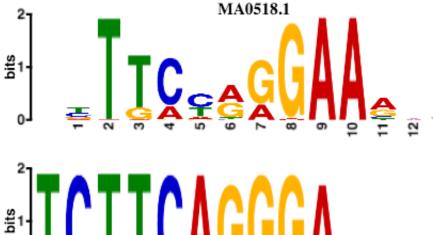
 p-value
 8.43e-03

 E-value
 8.26e+00

 q-value
 1.00e+00

Overlap 9
Offset -1
Orientation Normal

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motif_Train7_24

MATCHES TO MOTIF 10 25 (22-GTCTTCAGGGAC)

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Summary

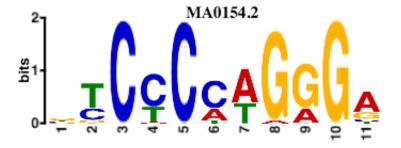
Name MA0154.2 (EBF1)
Database JASPAR CORE 2014

p-value1.86e-04E-value1.83e-01q-value3.65e-01

Overlap 11
Offset 0
Orientation Normal

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Alignment





Summary Alignment

Name MA0364.1 (REI1)

Database JASPAR CORE 2014

p-value 1.51e-03

> E-value 1.48e + 00q-value 1.00e+00 Overlap 7 **Offset** -4 Reverse Orientation Complement

> > Show logo download options





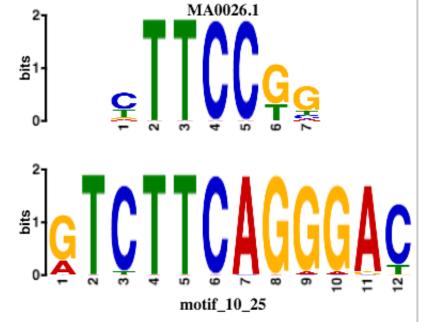
Summary

Alignment

Name Database	MA0026.1 (Eip74EF) JASPAR CORE 2014
<i>p</i> -value	2.99e-03
<i>E</i> -value	2.93e+00
<i>q</i> -value	1.00e+00
Overlan	7

Overlap **Offset** -2 Reverse Orientation Complement

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Summary

Alignment

Name Database	MA0144.2 (STAT3) JASPAR CORE 2014
<i>p</i> -value	4.03e-03
E-value	3.94e+00
<i>q</i> -value	1.00e+00
Overlap Offset	10 -2
Orientation	Normal

Show logo download options

MA0144.2

Summary Alignment

	<u>UP00049 2</u>
Name	(Sp100 secondary)

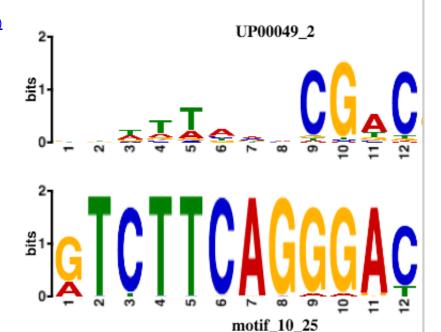
Database uniprobe mouse

p-value6.90e-03E-value6.75e+00q-value1.00e+00

Overlap 12 Offset 0

OrientationReverse
Complement

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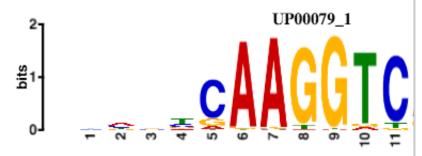
Summary

Nama	<u>UP00079 1</u>
Name	(Esrra primary)
Database	uniprobe mouse

p-value7.18e-03E-value7.03e+00q-value1.00e+00

Overlap 11
Offset -1
Orientation Normal

Show logo download options



Alignment



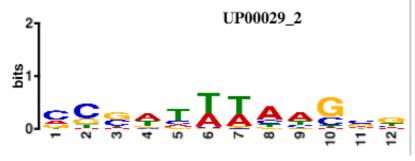
Summary Alignment

Name Database	<u>UP00029 2</u> <u>(Tbp secondary)</u> uniprobe mouse
<i>p</i> -value	9.55e-03

 p-value
 9.55e-03

 E-value
 9.35e+00

 a-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		Alignment
Name	MA0154.2 (EBF1)	MA0154.2
Database	JASPAR CORE 2014	#1 TUCUCALIGUA
<i>p</i> -value	8.44e-05	이= 등 출 표 집 중 [중 중 집 등
<i>E</i> -value	8.27e-02	- " " - " - " - " - " - " - " - " - " -
<i>q</i> -value	1.65e-01	21
Overlap	11	
Offset	0	£11
Orientation	Normal	MIVIIVAYUUAY
Show logo dov	VIIIOUU OPEIOIIS	motif_Train1_19 Alignment
Name	MA0364.1 (REI1)	MA0364.1
Database	JASPAR CORE 2014	[£] ¹ C∆GGG
<i>p</i> -value	1.40e-03	
<i>E</i> -value	1.37e+00	- 2 6 4 5 9 7
<i>q</i> -value	1.00e+00	21
Overlap	7	
Offset	-4	約 1
Orientation	Reverse Complement	JUIVIIVMXUVAY
Show logo dow	vnload options	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		motif_Train1_19
Summary		Alignment

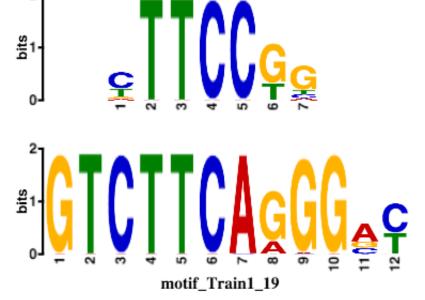
Name	<u>MA0026.1</u> (Eip74EF)
Database	JASPAR CORE 2014
<i>p</i> -value	3.87e-03
<i>E</i> -value	3.79e+00
<i>q</i> -value	1.00e+00
01	7

 Overlap
 7

 Offset
 -2

Orientation Reverse Complement

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MA0026.1

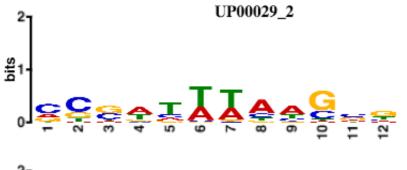
Summary

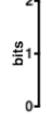
Alignment

TOMTOM

Name Database	UP00029 2 (Tbp_secondary) uniprobe mouse
p-valueE-valueq-value	8.21e-03 8.04e+00 1.00e+00
Overlap Offset Orientation	12 2 Normal

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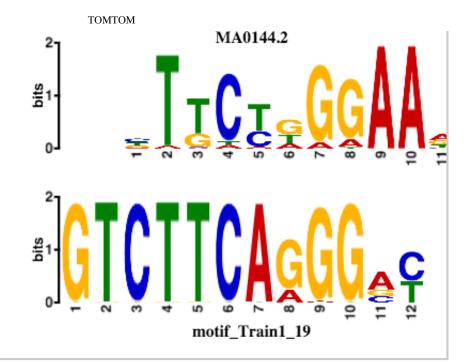






Summary

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



MATCHES TO MOTIF_TRAIN5_21 (20-GTCTTCAGGGAC)

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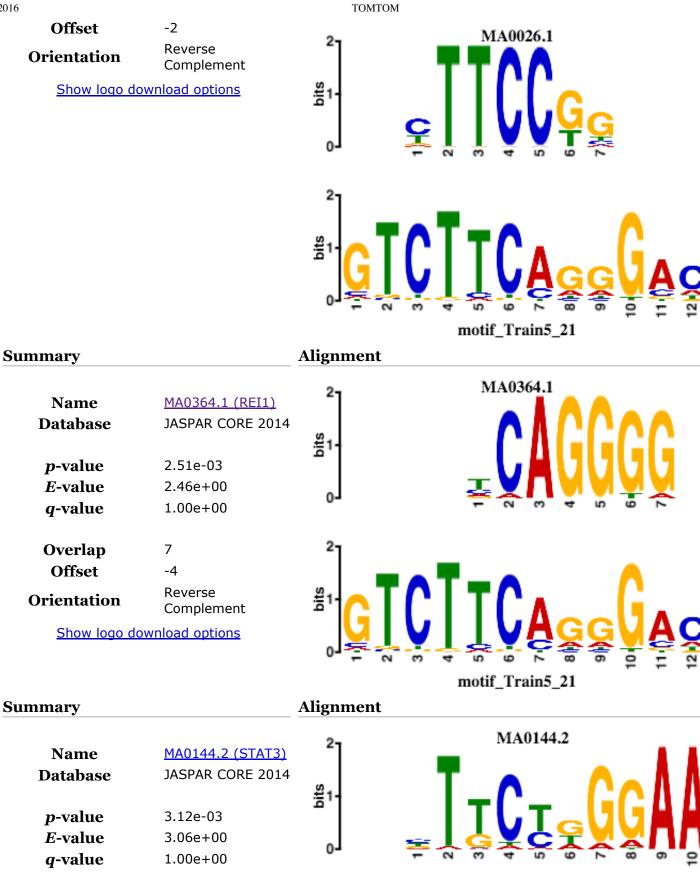
Alignment Summary MA0154.2 Name MA0154.2 (EBF1) **Database** JASPAR CORE 2014 *p*-value 8.66e-05 E-value 8.48e-02 q-value 1.70e-01 Overlap 11 Offset 0 Orientation Normal Show logo download options motif_Train5_21 Alignment **Summary**

Database	JASPAR CORE 2014
<i>p</i> -value	2.15e-03
E-value	2.10e+00

E-value 2.10e+00 **q-value** 1.00e+00

Overlap 7

Name



10

-2

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Normal

Overlap

Offset

Orientation

Summary Alignment

Nama	<u>UP00049_2</u>		
Name	(Sp100 secondary)		

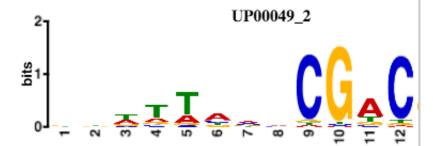
Database uniprobe mouse

p-value 7.11e-03*E*-value 6.96e+00*q*-value 1.00e+00

Overlap 12 Offset 0

Orientation Reverse Complement

Show logo download options





Summary

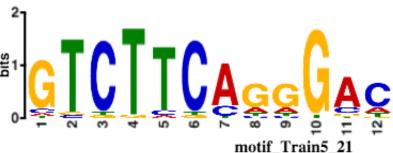
Marras	<u>UP00079 1</u>
Name	(Esrra primary)
Database	uniprobe mouse

p-value8.41e-03E-value8.23e+00q-value1.00e+00

Overlap 11
Offset -1
Orientation Normal

Show logo download options





Matches to motif_Train6_26 (22-GTCTTCAGGGAC)

Alignment

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Sun	ımarv	
Sun	marv	

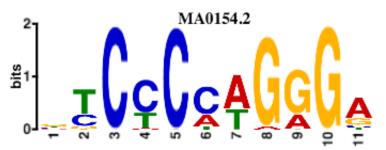
Alignment

Name	MA0154.2 (EBF1)
Database	JASPAR CORE 2014

p-value1.87e-04E-value1.83e-01q-value3.67e-01

Overlap 11
Offset 0
Orientation Normal

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Summary

Alignment

Name	MA0364.1 (REI1)
Database	JASPAR CORE 2014

p-value1.55e-03E-value1.52e+00q-value1.00e+00

Overlap 7 Offset -4

Orientation Reverse Complement

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Summary Alignment

Name MA0026.1 (Eip74EF)

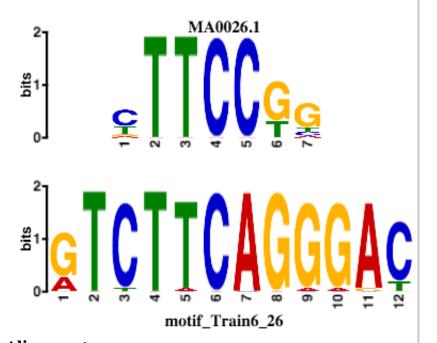
Database JASPAR CORE 2014

p-value 3.08e-03*E*-value 3.01e+00*q*-value 1.00e+00

Overlap 7
Offset -2

Orientation Reverse Complement

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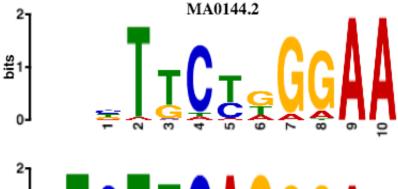
Summary

Alignment

Name MA0144.2 (STAT3) **Database** JASPAR CORE 2014 *p*-value 4.05e-03 E-value 3.96e + 00q-value 1.00e+00 Overlap 10

Offset -2 Orientation Normal

Show logo download options





Summary

	11000040	27		UP00	049_2
Name	<u>UP00049 2</u> (Sp100 secondary)				
Database	uniprobe mouse	<u>第</u> 1-			
<i>p</i> -value	6.89e-03		T	T _	UUAU
<i>E</i> -value	6.74e+00	07	- & €	_ 2	8
q-value	1.00e+00				
		27 -			_
Overlap	12				
Offset	0	ಕ್ಕ		TIN	
Orientation	Reverse Complement	ة '1 G			UUUA C

Show logo download options



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

Show logo download options

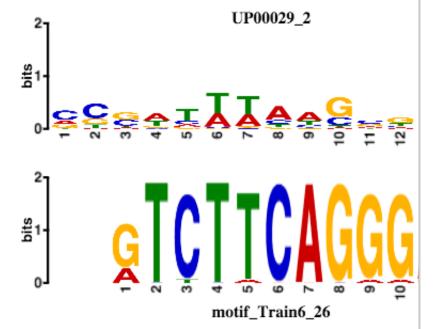




Summary

Alignment

Name	<u>UP00029 2</u> (Tbp_secondary)
Database	uniprobe mouse
<i>p</i> -value	9.54e-03
E-value	9.34e+00
<i>q</i> -value	1.00e+00
Overlap	12
Offset	2
Orientation	Normal
Show logo do	wnload options



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

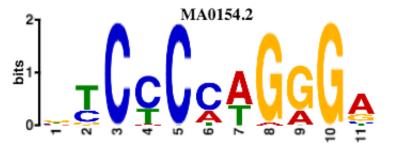
 E-value
 8.75e-02

 q-value
 1.75e-01

Overlap 11
Offset 0
Orientation Normal

Show logo download options

Alignment





Summary

Alignment

Name	MA0364.1 (REI1)
Database	JASPAR CORE 2014
<i>p</i> -value	2.44e-03
<i>E</i> -value	2.39e+00
<i>q</i> -value	1.00e+00
Overlap	7
Offset	-4
Orientation	Reverse Complement

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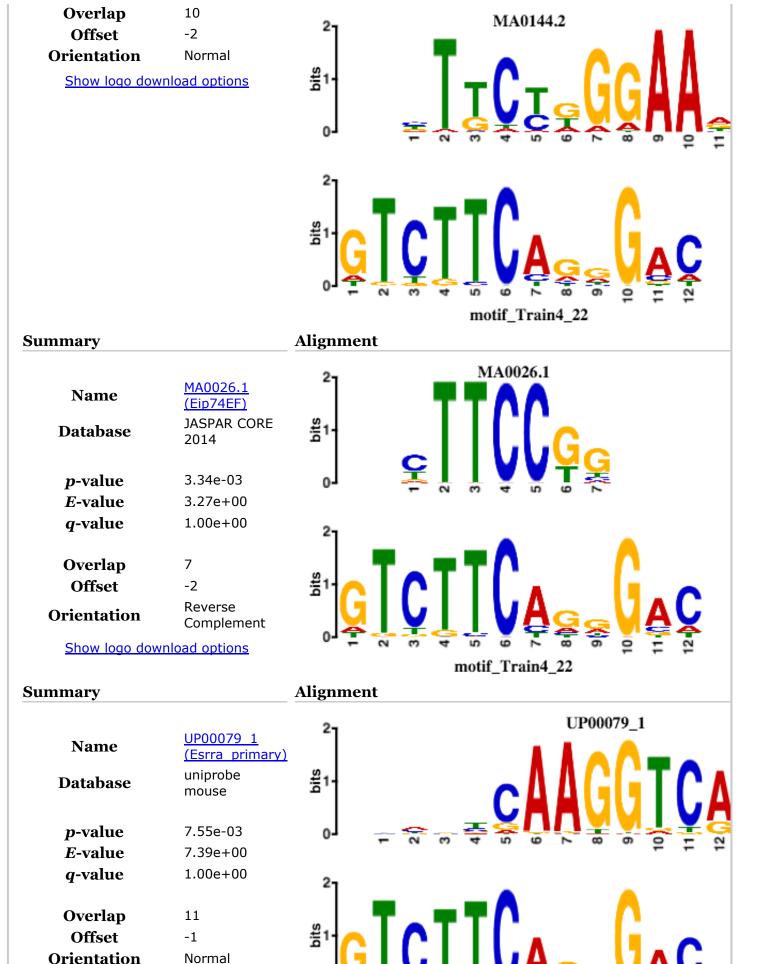


Summary

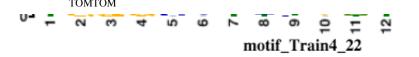
Nama	MA0144.2
Name	(STAT3)

Database JASPAR CORE 2014

p-value2.69e-03E-value2.63e+00q-value1.00e+00



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MATCHES TO MOTIF_TRAIN8_23 (23-CKTCAGGGAY)

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Alignment **Summary** MA0364.1 Name MA0364.1 (REI1) JASPAR CORE **Database** 2014 *p*-value 6.63e-04 *E*-value 6.49e-01 *q*-value 1.00e+00 **Overlap** 7 Offset -2 Reverse Orientation Complement Show logo download options motif_Train8_23

Summary

Summary

Alignment

Name Database	UP00066 1 (Hnf4a primary) uniprobe mouse	21 sig 1-	UP00066_1
<i>p</i> -value <i>E</i> -value <i>q</i> -value	1.85e-03 1.81e+00 1.00e+00	0 4	
Overlap Offset Orientation	10 0 Normal wnload options		AGGGAS

Alignment

Name MA0154.2 (EBF1) JASPAR CORE **Database** 2014

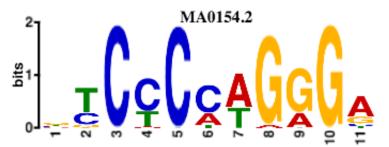
p-value 2.11e-03 motif_Train8_23

E-value 2.07e+00 **q-value** 1.00e+00

Overlap 9 Offset 2

Orientation Normal

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motif_Train8_23

Summary

Alignment

Name	<u>UP00015 1</u> (Ehf primary)
Database	uniprobe mouse

 p-value
 2.19e-03

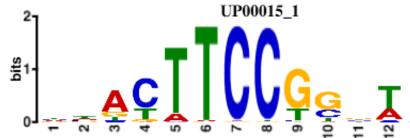
 E-value
 2.14e+00

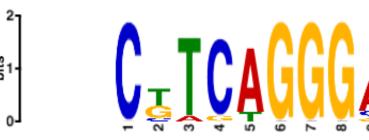
 q-value
 1.00e+00

Overlap 10 Offset 3

Orientation Reverse Complement

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motif_Train8_23

Summary

Alignment

Name Database	MA0144.2 (STAT3) JASPAR CORE 2014
<i>p</i> -value	2.72e-03
E-value	2.66e+00
<i>q</i> -value	1.00e+00
Overlap	10
Offset	0

EDCAGGGAS

Show loan download ontions

Orientation

Normal

2

motif_Train8_23

Summary

Alignment

TOMTOM

Name MA0440.1 (ZAP1)

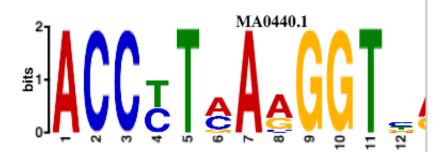
JASPAR CORE

Database 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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motif_Train8_23

Summary

Alignment

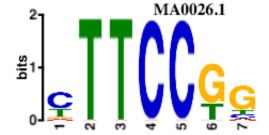
Marra	MA0026.1
Name	(Eip74EF)
Database	JASPAR CORE
Database	2014

p-value 4.59e-03 E-value 4.50e+00 q-value 1.00e+00

Overlap 7 Offset 0

Reverse Orientation Complement

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motif_Train8_23

Summary

Alignment

UP00005 1 Name (Tcfap2a primary) **Database** uniprobe mouse

p-value 7.35e-03 7 100±00 F_walua

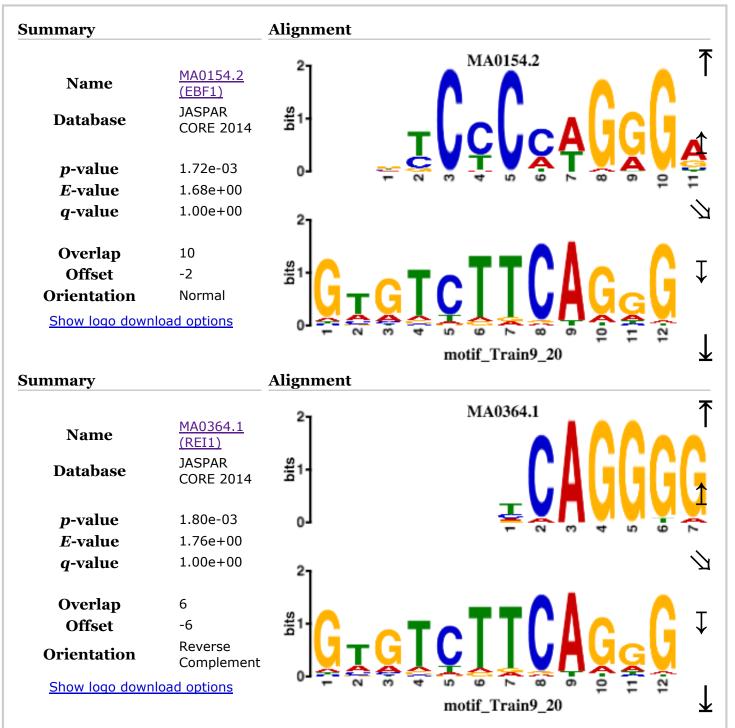
pits

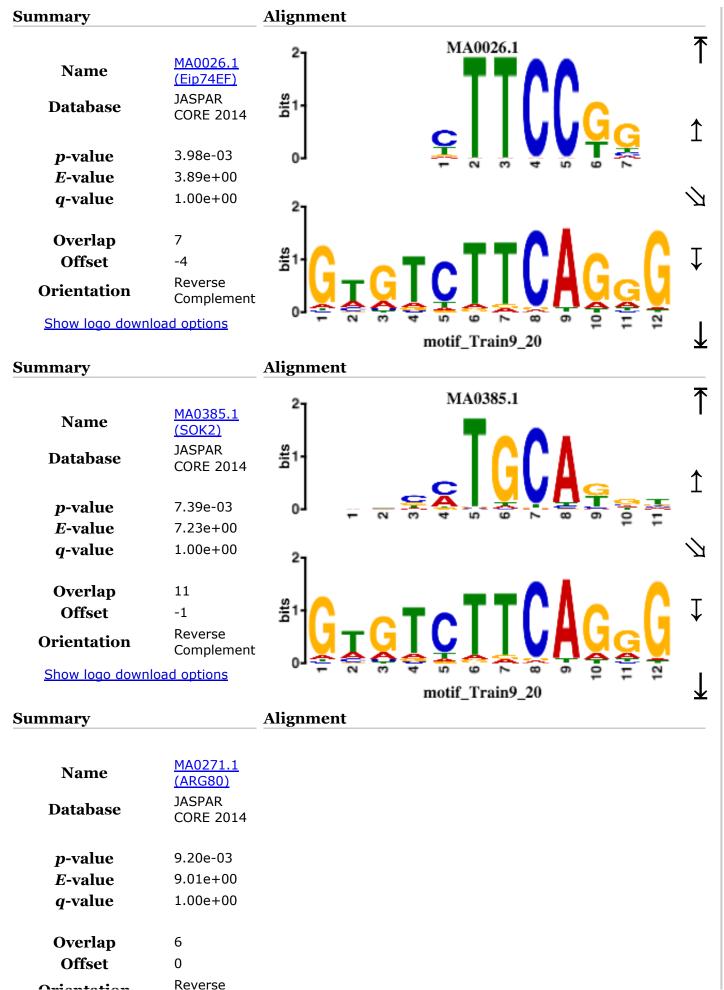
UP00005_1

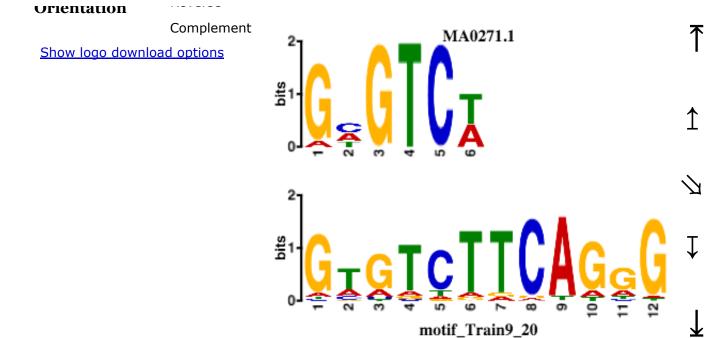
MATCHES TO MOTIF_TRAIN9_20 (21-GTGTCTTCAGGG)

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motif_Train8_23



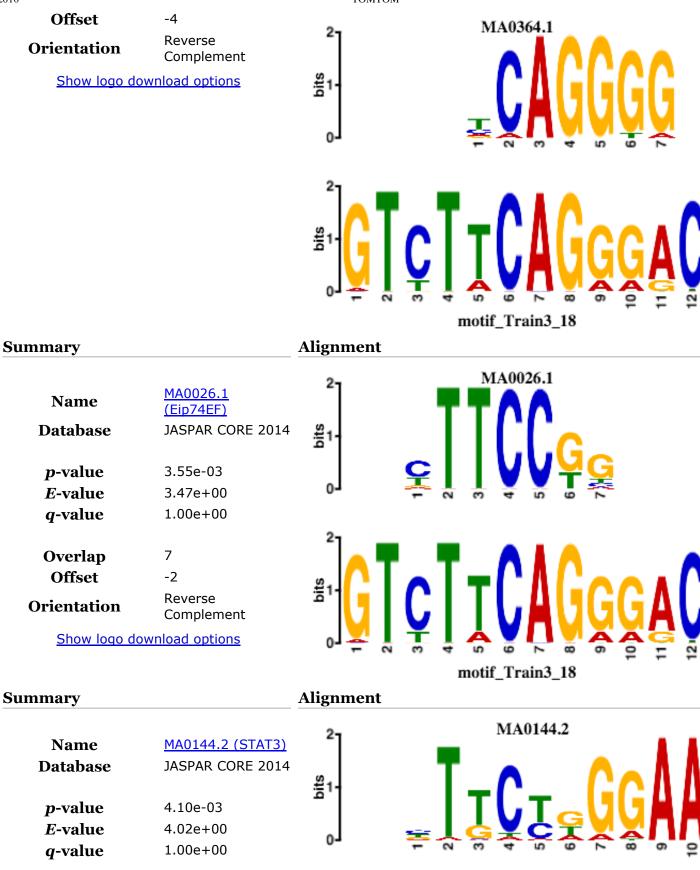




MATCHES TO MOTIF_TRAIN3_18 (20-GTCTTCAGGGAC)

Previous Next Top

Summary		Alignment
Name Database	MA0154.2 (EBF1) JASPAR CORE 2014	型 型 1
<i>p</i> -value	1.27e-04	* TUCUCAUGUA
E-value	1.24e-01	A STYATE
<i>q</i> -value	2.48e-01	2 6 4 5 9 6 11
Overlap	11	21 -
Offset	0	
Orientation	Normal	용네
Show logo do	ownload options	motif_Train3_18
Summary		Alignment
Name	MA0364.1 (REI1)	
Database	JASPAR CORE 2014	
<i>p</i> -value	1.78e-03	
<i>E</i> -value	1.75e+00	
<i>q</i> -value	1.00e+00	
Overlap	7	



10

-2

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Normal

Overlap

Offset

Orientation

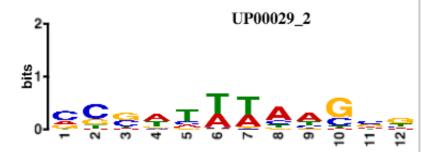
Summary Alignment

Mana	<u>UP00029 2</u>
Name	(Tbp_secondary)
Database	uniprobe mouse

p-value6.95e-03E-value6.80e+00q-value1.00e+00

Overlap 12
Offset 2
Orientation Normal

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Summary

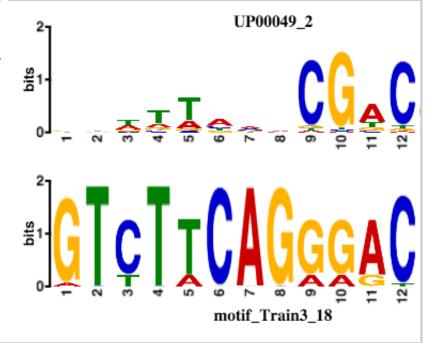
Alignment

Name Database	<u>UP00049 2</u> (<u>Sp100 secondary</u>) uniprobe mouse		
<i>p</i> -value	7.24e-03		
E-value	7.08e+00		
<i>a</i> -value	1.00e+00		

Overlap 12 Offset 0

Orientation Reverse Complement

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SETTINGS Previous Next Top

Background

Name Adenine Cytosine	Bg. 0.250 0.250	A C	~ ~	T G	Bg. 0.250 0.250	Name Thymine Guanine
Other Setti	ngs					
Strand Ha	andling	Motif matc	•	be rev	erse compl	emented before comparison to find a better
Dista: Meas		Pearson correlation coefficient				
Match Thi	reshold	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_group4.txt

Result calculation took 9.364 seconds