

Jump to: [Multiple Alignment](#) [Motif Tree](#) [Motif Matching](#)

Input file: 21 motifs loaded

Settings: Metric=PCC, Alignment=SWU, Gap-open=1000, Gap-extend=1000, -nooverlapalign

Multiple Alignment=IR, Tree=UPGMA, Matching against: JASPAR

Note: All results files are removed nightly at midnight EST. Please save your results by saving "Webpage, complete".

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Multiple Alignment

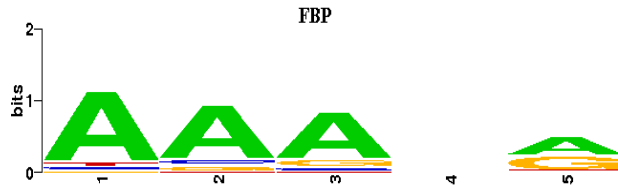
(Consensus sequence representations shown, but multiple alignment was carried out on the matrices)

```

M0 :          ---CCCCACCC----
M1 :          -----AAAAA AAA
M2 :          -----GGAAGGGA--
M3 :          ---TTTTAAAA----
M4 :          --GAAAGAAA-----
M5 :          ----AGGAAGGA---
M6 :          ---AAGGAAAA----
M7 :          ---TGGGAGAG----
M8 :          -----CAAACAA--
M9 :          -----AAAACACA-
M10 :         -----CAAAGGAG-
M11 :         TCCCCAGA-----
M12 :         -TCTGAGAA-----
M13 :         -----AAATAAAT
M14 :         ---AATTAAAA----
M15 :         -----GCAAAGGC--
M16 :         -----AAAGGGCA
M17 :         --TATTTAAA-----
M18 :         AGGGCTGA-----
M19 :         ---AGGGAAAT----
M20 :         -----AAAACAAC-

```

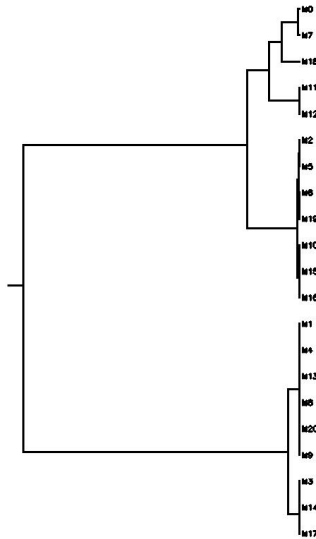
Familial Profile:
[\(click for matrix\)](#)



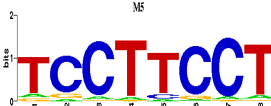
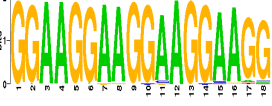
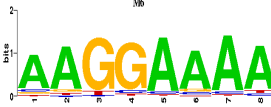
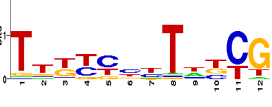
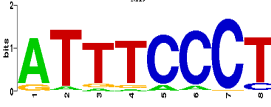

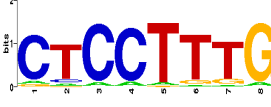

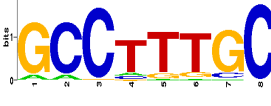
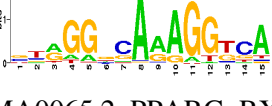
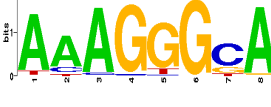

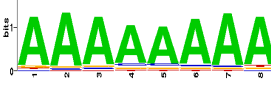



Motif Tree

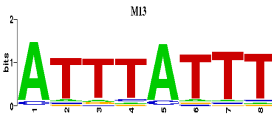
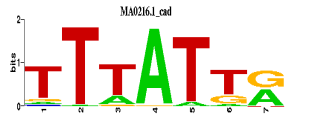
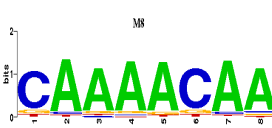
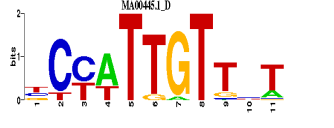
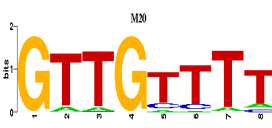

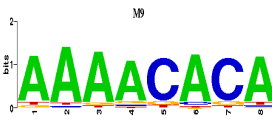

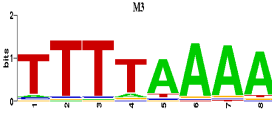

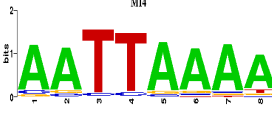

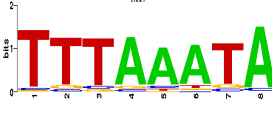
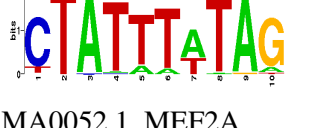
Tree (drawn by **Phylip**)

[Click here for Newick-format tree \(viewable with MEGA\)](#)



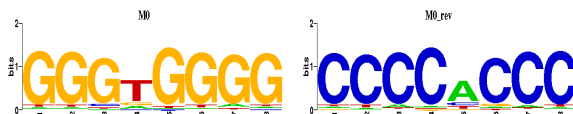
	Input Motif	Best match in JASPAR
M0		MA0039.2_Klf4 (E val: 1.7133e-09)
M7		MA0432.1_YNR063W (E val: 2.1199e-05)
M18		MA0403.1_TBF1 (E val: 1.4438e-04)
M11		MA0344.1_NHP10 (E val: 2.5828e-05)
M12		MA0432.1_YNR063W (E val: 7.1851e-06)
M2		MA0149.1_EWSR1-FLI1 (E val: 3.2841e-06)

<p>M5</p> 	<p>MA0149.1_EWSR1-FLI1 (E val: 1.1595e-10)</p> 
<p>M6</p> 	<p>MA0120.1_id1 (E val: 8.9005e-08)</p> 
<p>M19</p> 	<p>MA0428.1_YKL222C (E val: 1.0440e-06)</p> 
<p>M10</p> 	<p>MA0370.1_RME1 (E val: 7.1699e-08)</p> 
<p>M15</p> 	<p>MA0065.2_PPARG_RXRA (E val: 1.0016e-06)</p> 
<p>M16</p> 	<p>MA0065.2_PPARG_RXRA (E val: 3.4261e-07)</p> 
<p>M1</p> 	<p>MA0277.1_AZF1 (E val: 6.3784e-08)</p> 
<p>M4</p> 	<p>MA0277.1_AZF1 (E val: 4.5644e-09)</p> 

 <p>M13</p>	 <p>MA0216.1_cad (E val: 3.3032e-07)</p>
 <p>M8</p>	 <p>MA00445.1_D (E val: 2.0194e-06)</p>
 <p>M20</p>	 <p>MA00445.1_D (E val: 3.7978e-06)</p>
 <p>M9</p>	 <p>MA0233.1_mirr (E val: 4.7205e-05)</p>
 <p>M3</p>	 <p>MA0151.1_ARID3A (E val: 7.2475e-05)</p>
 <p>M14</p>	 <p>MA0151.1_ARID3A (E val: 1.6117e-08)</p>
 <p>M17</p>	 <p>MA0052.1_MEF2A (E val: 8.0212e-07)</p>

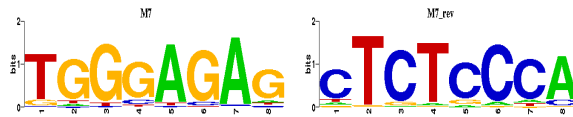
Motif Similarity Matches

M0



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0039.2_Klf4	1.7133e-09	-CCCCACCC- GCCMCRCRCCN	
MA0436.1_YPR022C	2.3038e-07	GGGTGGGG -NGTGGGG	
MA0268.1_ADR1	1.2124e-06	GGGTGGGG- --KTGGGGN	
MA0373.1_RPN4	4.1856e-06	GGGTGGGG -GGTGGCG	
MA0079.2_SP1	5.6798e-06	--GGGTGGGG GGGGGNGGGG	

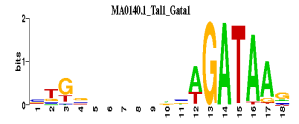
M7



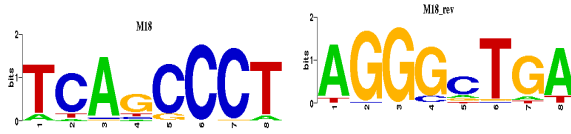
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0432.1_YNR063W	2.1199e-05	TGGGAGAG TCGGAGAT	
MA0354.1_PDR8	6.6302e-04	CTCTCCCA ATCTCCGN	
MA0062.1_GABPA	6.8723e-04	--TGGGAGAG ACCGGAAGNS	
MA0088.1_znf143	1.0557e-03	-----TGGGAGAG- KCNNKGMANNMTGGGANNNN	

MA0140.1_Tal1_Gata1 2.0679e-03

-----CTCTCCCA-----
 NTTATCTNNNNNNNNCNN



M18

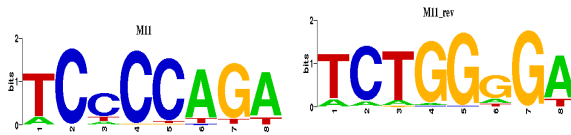


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0403.1_TBF1	1.4438e-04	--AGGGCTGA NTAGGGYT--	
MA0443.1_btd	5.7714e-04	--AGGGCTGA NGKGGCGGR	
MA0117.1_Mafb	8.5974e-04	---TCAGCCCT NNNTCAGC---	
MA0009.1_T	1.6904e-03	-TCAGCCCT-- TTCACACCTAG	
MA0366.1_RGM1	1.9037e-03	TCAGCCCT ---CCCCT	






M11



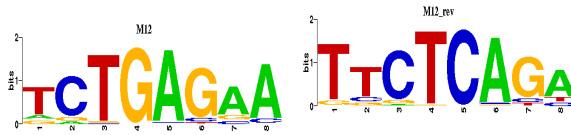
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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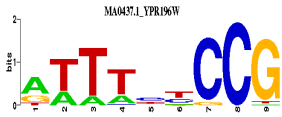


MA0344.1_NHP10	2.5828e-05	TCCCAGA TCCCAGN	
MA0056.1_MZF1_1-4	2.6312e-05	TCCCAGA TCCCN--	
MA0155.1_INSM1	6.6320e-05	--TCCCAGA-- YGCCCCCTGRCA	
MA0353.1_PDR3	1.6714e-04	TCCCAGA TCGCGGA	
MA0332.1_MET28	1.9837e-04	TCTGGGA -CTGTG-	

M12



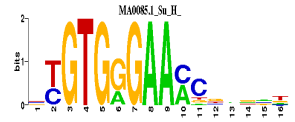
forward

reverse compliment

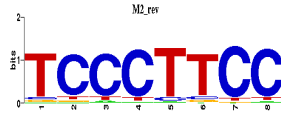
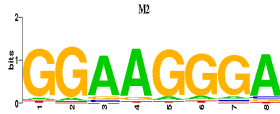
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0432.1_YNR063W	7.1851e-06	TCTGAGAA TCGAGAT	
MA0437.1_YPR196W	5.7591e-04	TCTGAGAA-- -CGGRNAAAT	
MA0407.1_THI2	1.9590e-03	-----TCTGAGAA- GGMAACYSTAAGAAC	
MA0137.2_STAT1	2.2093e-03	----TCTGAGAA---- NNNTCCNGGAARNN	

MA0085.1_Su_H_ 2.4027e-03

-----TTCTCAGA--
NNNNNGKTTCCACRN



M2

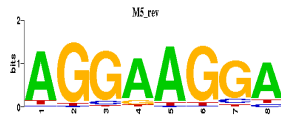
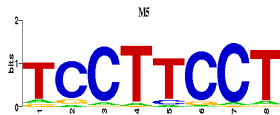


forward

reverse compliment

Name	E value	Alignment	Motif
MA0149.1_EWSR1-FLI1	3.2841e-06	-----TCCCTTCC CCTTCCTTCCTTCCTTC	
MA0080.1_SPI1	5.1496e-05	-GGAAGGGA NGGAAS---	
MA0154.1_EBF1	1.4530e-04	--GGAAGGGA NCCCNAGGGA	
MA0305.1_GCR2	1.7580e-04	-GGAAGGGA NGGAAGC--	
MA0080.2_SPI1	1.7627e-04	TCCCTTCC- --ACTTCCT	

M5



forward

reverse compliment

Name	E value	Alignment	Motif
MA0149.1_EWSR1-FLI1	1.1595e-10	---TCCTTCCT----- CCTTCCTTCCTTCCTTC	

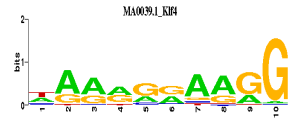
MA0080.2_SPI1 2.5416e-07

AGGAAGGA
AGGAAGT-



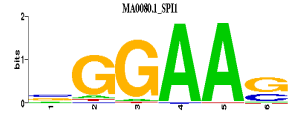
MA0039.1_Klf4 1.2388e-05

TCCTTCCT---
-CCTTYYTTN



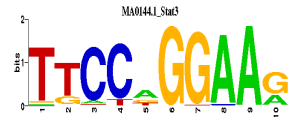
MA0080.1_SPI1 5.1502e-05

TCCTTCCT
--STCCN

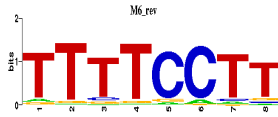
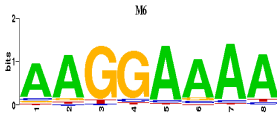


MA0144.1_Stat3 5.7670e-05

TCCTTCCT----
--CTTCNGGAA



M6



forward

reverse compliment

Name

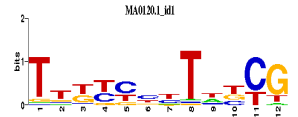
E value

Alignment

Motif

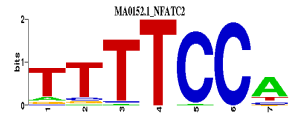
MA0120.1_id1 8.9005e-08

TTTTTCCTT----
TNKYNNNTNCG



MA0152.1_NFATC2 1.5869e-07

AAGGAAAA
-TGGAAAA



MA0277.1_AZF1 8.0564e-06

TTTTTCCTT--
-TTTCTTTTT



MA0294.1_EDS1 1.1277e-05

--TTTTTCCTT
NTTNTTCN-

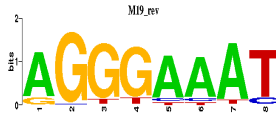
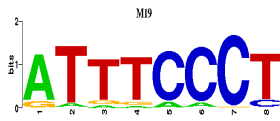


MA0156.1_FEV 2.4403e-05

TTTTTCCTT
AYTTCCTG



M19

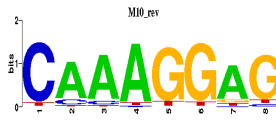
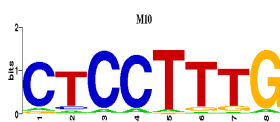


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0428.1_YKL222C	1.0440e-06	ATTTCCCT- ATYTCCGTN	
MA0438.1_YRM1	1.6007e-06	ATTTCCCT ATNTCCGN	
MA0437.1_YPR196W	1.1278e-05	-AGGGAAAT CGGRNAAAT	
MA0156.1_FEV	1.8089e-05	ATTTCCCT AYTTCCTG	
MA0107.1_REL A	1.8435e-05	----ATTTCCCT GGGANTTTCC--	

M10



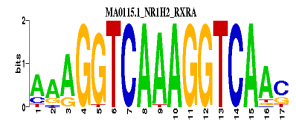
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0370.1_RME1	7.1699e-08	CTCCTTTG-- TNCCTTTNNA	
MA0442.1_SOX10	1.3514e-04	-CAAAGGAG ACA AWG---	

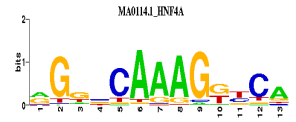
MA0115.1_NR1H2_RXRA 2.3986e-04

---CTCCTTTG-----
STTGACCTTTGACCTTT



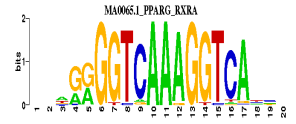
MA0114.1_HNF4A 3.3414e-04

-CTCCTTTG----
TGNMCTTTGNNCY

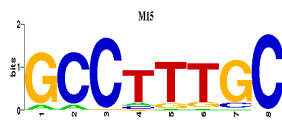


MA0065.1_PPARG_RXRA 4.2895e-04

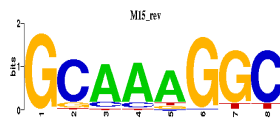
----CTCCTTTG-----
NNNTGACCTTTGACCYCNN



M15



forward



reverse complement

Name

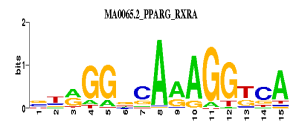
E value

Alignment

Motif

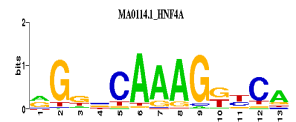
MA0065.2_PPARG_RXRA 1.0016e-06

--GCCTTTGC-----
TGMCTTTGNCCYNN



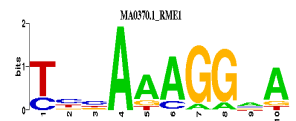
MA0114.1_HNF4A 6.7211e-06

---GCAAAGGC--
RGNNCAAAGKNCA



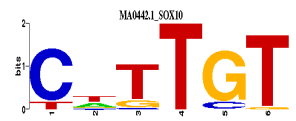
MA0370.1_RME1 5.9579e-05

-GCCTTTGC-
TNCCTTTNNA



MA0442.1_SOX10 1.1594e-04

GCCTTTGC
--CWTTGT

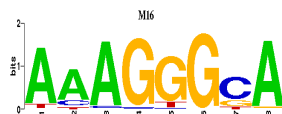


MA0017.1_NR2F1 2.5144e-04

----GCAAAGGC--
NNGKNCAAAGKTCA



M16



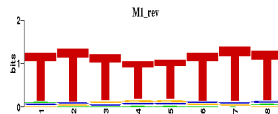
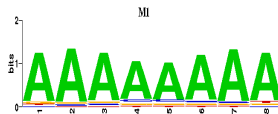
forward



reverse compliment

Name	E value	Alignment	Motif
MA0065.2_PPARG_RXRA	3.4261e-07	TGCCCTTT----- TGMCCTTTGNCCYNN	
MA0115.1_NR1H2_RXRA	5.6052e-06	-----AAAGGGCA-- AAAGGTCAAAGGTCAAS	
MA0114.1_HNF4A	5.7460e-06	TGCCCTTT----- TGNMCTTTGNNCY	
MA0065.1_PPARG_RXRA	1.2994e-05	---TGCCCTTT----- NNNTGACCTTTGACCYCINN	
MA0017.1_NR2F1	2.5263e-05	TGCCCTTT----- TGAMCTTTGNMCNN	

M1



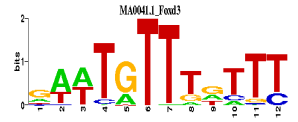
forward

reverse compliment

Name	E value	Alignment	Motif
MA0277.1_AZF1	6.3784e-08	AAAAAAAAA- AAAAAGAAA	
MA0049.1_hb	2.9398e-06	-TTTTTTTTT- NTTTTTNYKS	

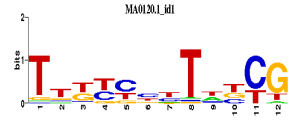
MA0041.1_Foxd3 8.0050e-05

AAAAAAAA----
AAANAAACAWTN



MA0120.1_id1 4.5887e-04

----AAAAAAAA
CGNNANNRRMNA

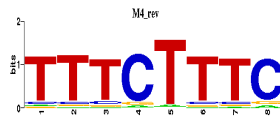
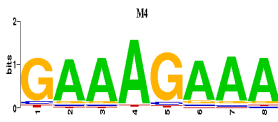


MA0010.1_br_Z1 1.2433e-03

-TTTTTTTTT-----
NWYTTGTYTATNAN



M4



forward

reverse compliment

Name

E value

Alignment

Motif

MA0277.1_AZF1

4.5644e-09

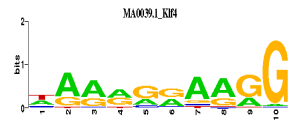
TTTCTTTC-
TTTCTTTTT



MA0039.1_Klf4

2.9771e-05

--TTTCTTTC
CCTTYYYTNN



MA0370.1_RME1

5.6768e-05

TTTCTTTC--
TNCCTTTNNA



MA0407.1_THI2

1.3989e-03

TTTCTTTC-----
GTTCTTASRGTTKCC

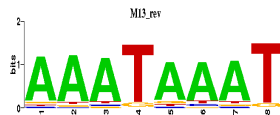
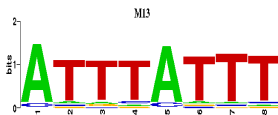


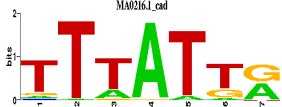




MA0149.1_EWSR1-FLI1 1.4357e-03

-----TTTCTTTC-
CCTTCCTTCCTTCCTTC

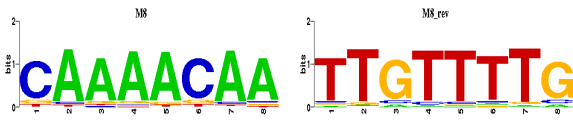





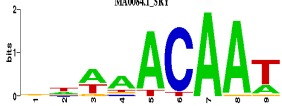
M13



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0216.1_cad	3.3032e-07	AAATAAAAT YAATAAA-	
MA0042.1_FOXI1	3.6716e-07	----ATTTATTT NNNTRTTTTRTWT	
MA0047.1_Foxa2	5.1523e-07	----ATTTATTT NANTATTTTRYTT	
MA0174.1_CG42234	1.0699e-05	AAATAAAAT TMATWAA-	
MA0135.1_Lhx3	1.2611e-05	----ATTTATTT NRWTAATTAATTW	

M8



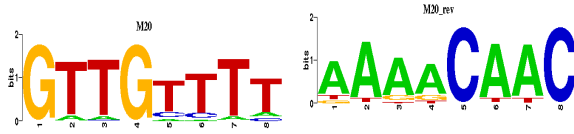
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA00445.1_D	2.0194e-06	CAAAACAA---- -ANAACAATRGN	
MA0143.1_Sox2	4.4545e-06	----CAAAACAA--- TNTGCATNACAAWGG	
MA0142.1_Pou5f1	8.6898e-06	--TTGTTTTG----- CWTGTGNATGCAAAT	
MA0084.1_SRY	2.1614e-05	CAAAACAA- NNWAACAAT	

MA0235.1_onecut 3.4241e-05

TTGTTTGG
TTGATTN-



M20

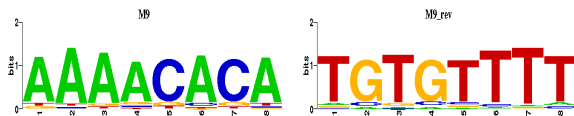


forward

reverse compliment

Name	E value	Alignment	Motif
MA00445.1_D	3.7978e-06	AAAACAAC--- ANAACAATRGN	
MA0044.1_HMG-1	8.9378e-06	-AAAACAAC GANNACAAC	
MA0084.1_SRY	1.9449e-05	GTTGTTTT- ATTGTTWNN	
MA0233.1_mirr	4.0185e-05	GTGTTTT --TGTTW-	
MA0040.1_Foxq1	4.4161e-05	-GTTGTTTT-- NATTGTTTATW	

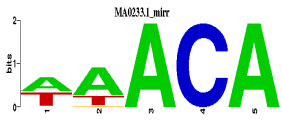




M9



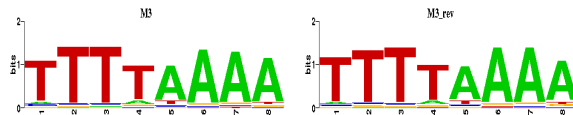
forward

reverse compliment

Name	E value	Alignment	Motif
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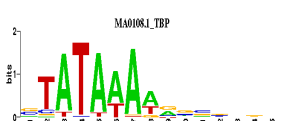
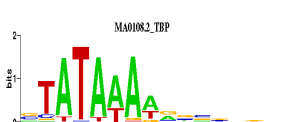
MA0233.1_mirr	4.7205e-05	TGTGTTTT --TGTTW-	
MA0210.1_ara	1.5718e-04	TGTGTTTT --TGTTW-	
MA0297.1_FKH2	1.7266e-04	TGTGTTTT- --TGTTTAC	
MA0002.2_RUNX1	2.5526e-04	AAAACACA--- NAACCACARNN	
MA0022.1_dl_1	4.3650e-04	----AAAACACA NGGAAAAACCCS	

M3

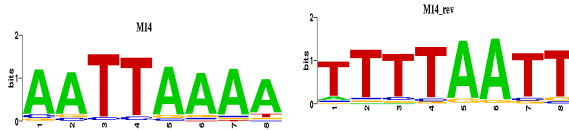


forward

reverse compliment

Name	E value	Alignment	Motif
MA0151.1_ARID3A	7.2475e-05	TTTTAAAA -TTTAAT-	
MA0218.1_ct	1.3352e-03	TTTTAAAA --TTRAAC	
MA0173.1_CG11617	1.5695e-03	-TTTTAAAA ATGTWAA--	
MA0108.1_TBP	1.5824e-03	-----TTTTAAAA NNNNNNYWTTTATAN	
MA0108.2_TBP	1.5862e-03	-----TTTTAAAA NNNNNNYWTTTATAN	

M14

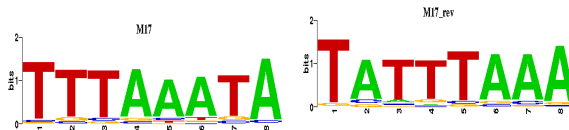


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0151.1_ARID3A	1.6117e-08	TTTTAATT -TTTAAAT-	
MA0226.1_hbn	1.5905e-07	TTTTAATT- --TAAATTR	
MA0194.1_Lim1	1.6384e-07	-AATTAAAA TAATTAA--	
MA0208.1_al	1.7506e-07	TTTTAATT- --TTAATTA	
MA0240.1_repo	1.7920e-07	-AATTAAAA TAATTAA--	

M17



forward

reverse compliment

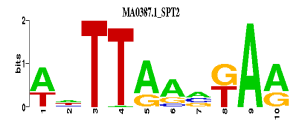
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0052.1_MEF2A	8.0212e-07	-TTTAAATA- CTATAAATAG	

Stamp Results

10/01/13

MA0387.1_SPT2 1.2839e-06

-TTTAAATA-
ANTTAANKAA



MA0153.1_HNF1B 1.3861e-06

TTTAAATA----
GTAAWYATTAA



MA0194.1_Lim1 1.8338e-06

TTTAAATA
-TTAATTA



MA0208.1_al 1.8719e-06

TTTAAATA
-TTAATTA



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 STAMP is written by [Shaun Mahony](#)