

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

Input file: 45 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".

[Download results as a PDF](#)

[Click here to run STAMP again.](#)

## Multiple Alignment

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

```

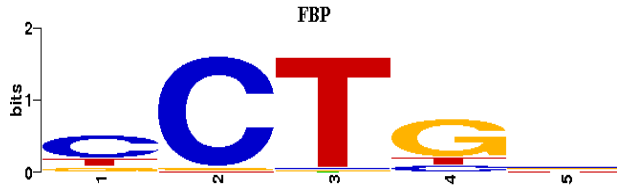
M0 :          TTTTTTATTTTTTTTTTTTTTTTTT-----
M1 :          AAATTTTTTTTTTAAAAAAAAAATT-----
M2 :          -----GTGACCTTGG-----
M3 :          ---TGTGTGTGTGTGTGTGTGTGTG-----
M4 :          -----CCCCCCCCCTCCTCCCCCCCCC-----
M5 :          -----CCCCCCCCCTCCTCCCCCCCCC-----
M6 :          -----GGGGGGCGGGGCTGGGGGGGGGG-----
M7 :          -----CCTCTGCCTCC-----
M8 :          -----TTTTTCTTTCCTTCT-----
M9 :          -----TTTTTTTTTCTTYCCTTTTTTT-----
M10 :         -----CCCAGCYCTGG-----
M11 :         -----CCCTGTCTCCT-----
M12 :         -----CCTCTGNCCCC-----
M13 :         -----TKCCCTCTGC-----
M14 :         -----CCTGACCTTG-----
M15 :         -----CTGCTGCCTGC-----
M16 :         -----CCCCTKCCCTTCTCC-----
M17 :         -----CCCCCTSCCCTCCAGCCCCCCC-----
M18 :         -----CCTGGSAGCCAGGG-----
M19 :         -----CTGWGGGTG-----
M20 :         -----CTCTGAGCT-----
M21 :         -----KCTGCCAG-----
M22 :         -----GCAGCTGGCTG-----

```

```

M23: -----CTGAGCTCC-----
M24: -----AGCCTCCACC-----
M25: -----CCCTGGCCCCCTGCC-----
M26: -----CMCCCTCTCCCCCCCC-----
M27: -----CCCCCTGTCCCTGCCCCCCCC-----
M28: -----GGGAAGCTGGG-----
M29: -----CCTTGGCYTT-----
M30: -----GGGGGCTGGNGCCTG-----
M31: -----GGCCCCCKGG-----
M32: -----CTGTGTCTCTG-----
M33: -----CAGRGCCTGC-----
M34: -----CTGCTTGGG-----
M35: -----CTGTGTGRCCTTG-----
M36: -----TTTCTTTTGA-----
M37: -----TCTGCATGCAG-----
M38: -----CCTGGAGACCTGGG-----
M39: -----CCATGTCCTT-----
M40: -----CCTGGGGA-----
M41: -----TTTCTGGG-----
M42: -----GGCCACTG-----
M43: -----CCCTTCAG-----
M44: -----GCTGACAG-----
    
```

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



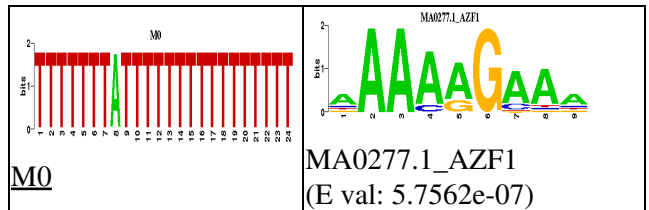
## Motif Tree

Tree (drawn by [Phylip](#))


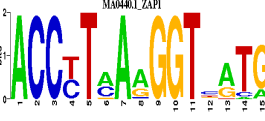


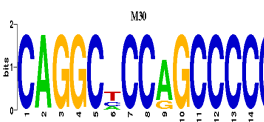
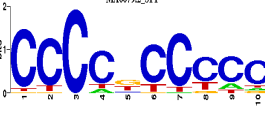






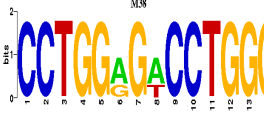


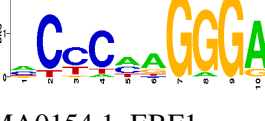
[Click here for Newick-format tree](#) (viewable with [MEGA](#))

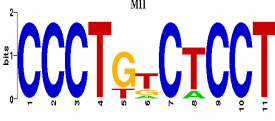

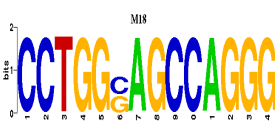

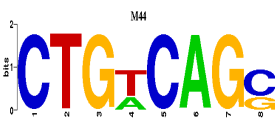








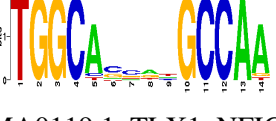
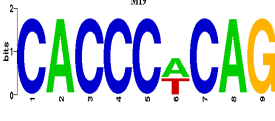

Input Motif

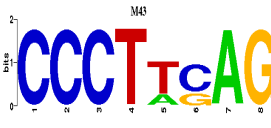



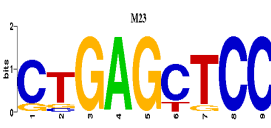

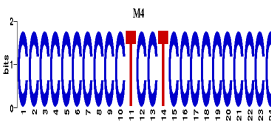
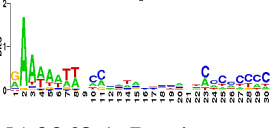
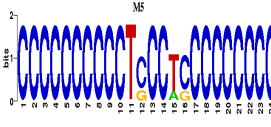
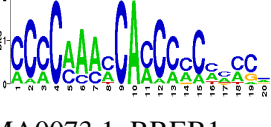
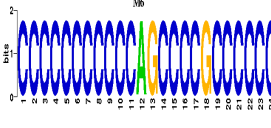
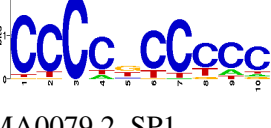

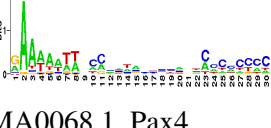

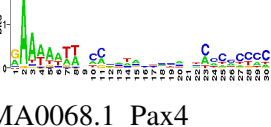
Best match in  
JASPAR

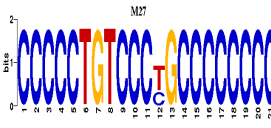
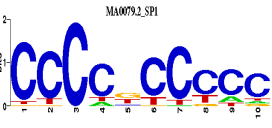




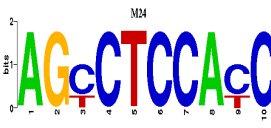
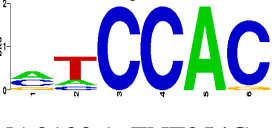

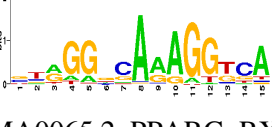



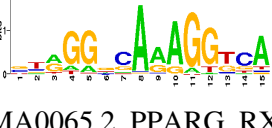
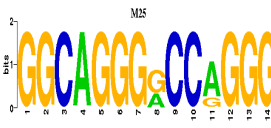
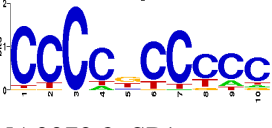




 <p><b>M39</b></p>	 <p><b>MA0440.1_ZAP1</b> (E val: 4.0578e-05)</p>
 <p><b>M10</b></p>	 <p><b>MA0344.1_NHP10</b> (E val: 3.2079e-04)</p>
 <p><b>M30</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 6.9026e-06)</p>
 <p><b>M33</b></p>	 <p><b>MA0450.1_hkb</b> (E val: 3.9370e-03)</p>
 <p><b>M21</b></p>	 <p><b>MA0320.1_IME1</b> (E val: 7.3818e-04)</p>
 <p><b>M41</b></p>	 <p><b>MA0155.1_INSM1</b> (E val: 8.4318e-06)</p>
 <p><b>M38</b></p>	 <p><b>MA0086.1_sna</b> (E val: 5.5870e-04)</p>
 <p><b>M40</b></p>	 <p><b>MA0154.1_EBF1</b> (E val: 5.6477e-06)</p>

 <p><b>M11</b></p>	 <p><b>MA0207.1_achi</b> (E val: 2.7050e-04)</p>
 <p><b>M18</b></p>	 <p><b>MA0304.1_GCR1</b> (E val: 2.2823e-05)</p>
 <p><b>M44</b></p>	 <p><b>MA0207.1_achi</b> (E val: 1.6270e-08)</p>
 <p><b>M15</b></p>	 <p><b>MA0055.1_Myf</b> (E val: 3.5872e-05)</p>
 <p><b>M22</b></p>	 <p><b>MA0048.1_NHLH1</b> (E val: 2.5597e-05)</p>
 <p><b>M34</b></p>	 <p><b>MA0314.1_HAP3</b> (E val: 1.0982e-04)</p>
 <p><b>M37</b></p>	 <p><b>MA0119.1_TLX1_NFIC</b> (E val: 6.7775e-04)</p>
 <p><b>M19</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 2.2536e-07)</p>

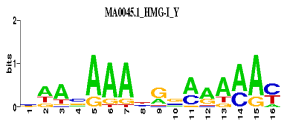

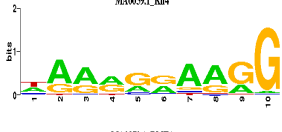




 <p><b>M43</b></p>	 <p><b>MA0247.1_tin</b> (E val: 3.1294e-05)</p>
 <p><b>M20</b></p>	 <p><b>MA0115.1_NR1H2_RXRA</b> (E val: 5.1569e-04)</p>
 <p><b>M23</b></p>	 <p><b>MA0326.1_MAC1</b> (E val: 4.3271e-03)</p>
 <p><b>M4</b></p>	 <p><b>MA0068.1_Pax4</b> (E val: 6.2811e-12)</p>
 <p><b>M5</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 5.2514e-11)</p>
 <p><b>M6</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 1.6058e-12)</p>
 <p><b>M17</b></p>	 <p><b>MA0068.1_Pax4</b> (E val: 5.6350e-07)</p>
 <p><b>M26</b></p>	 <p><b>MA0068.1_Pax4</b> (E val: 1.0410e-08)</p>
<p></p>	<p></p>

 <p><b>M27</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 3.0326e-10)</p>
 <p><b>M16</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 1.8852e-07)</p>
 <p><b>M28</b></p>	 <p><b>MA0323.1_IXR1</b> (E val: 2.3938e-06)</p>
 <p><b>M24</b></p>	 <p><b>MA0130.1_ZNF354C</b> (E val: 9.5753e-06)</p>
 <p><b>M7</b></p>	 <p><b>MA0065.2_PPARG_RXRA</b> (E val: 2.2246e-05)</p>
 <p><b>M12</b></p>	 <p><b>MA0065.1_PPARG_RXRA</b> (E val: 1.5605e-06)</p>
 <p><b>M13</b></p>	 <p><b>MA0065.2_PPARG_RXRA</b> (E val: 3.7393e-07)</p>
 <p><b>M25</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 1.1428e-05)</p>

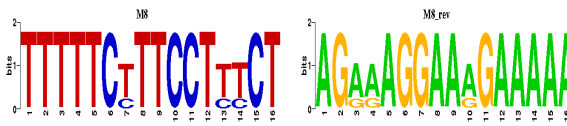






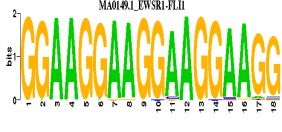
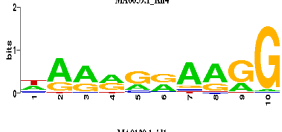
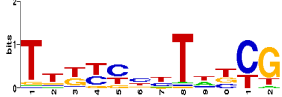
MA0045.1_HMG-I_Y	1.0095e-04	TTTTTTTTTCTTYCCTTTTTTTT- -----RTTTYKNYNTTNTNN	
MA0082.1_squamosa	1.2908e-04	-AAAAAAGGRAAGAAAAAAAAAA MCAWAWATRGNAAN-----	
MA0039.1_Klf4	2.0513e-04	AAAAAAGGRAAGAAAAAAAAAA ---NAARRRAAGG-----	
MA0370.1_RME1	5.5958e-04	TTTTTTTTTCTTYCCTTTTTTTT -----TNCCTTTNNA-	
MA0287.1_CUP2	2.3162e-03	AAAAAAGGRAAGAAAAAAAAAA -----CAGCARAAAWG--	
MA0041.1_Foxd3	2.5037e-03	--TTTTTTTTTCTTYCCTTTTTTTT NAWTGTTNTTT-----	
MA0013.1_br_Z4	2.5982e-03	TTTTTTTTTCTTYCCTTTTTTTT --WTWNTTACTA-----	








**M8**



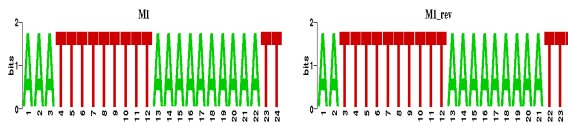
*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0149.1_EWSR1-FLI1	2.8545e-10	TTTTTCTTTCCTTTCT--- -CCTTCCTTCCTTCTTC	
MA0039.1_Klf4	1.4637e-06	AGAAAGGAAAGAAAAA -NAARRRAAGG-----	
MA0120.1_id1	4.6461e-06	AGAAAGGAAAGAAAAA ----CGNNANRRMNA	




MA0277.1_AZF1	5.7513e-06	TTTTCTTTCCTTCT --TTTCTTTT-----	
MA0370.1_RME1	7.1218e-05	TTTTCTTTCCTTCT- -----TNCCTTTNNA	
MA0156.1_FEV	4.4006e-04	TTTTCTTTCCTTCT -----AYTTCCTG---	
MA0045.1_HMG-I_Y	5.7735e-04	AGAAAGGAAAGAAAAA- -NNANAAANRNMRAAAY	
MA0081.1_SPIB	7.0547e-04	TTTTCTTTCCTTCT -----TTCKST--	
MA0050.1_IRF1	1.3062e-03	--TTTTCTTTCCTTCT GGTTTCRNTTN-----	
MA0051.1_IRF2	1.4720e-03	AGAAAGGAAAGAAAAA----- -----SGAAAGYGAAASYNWAWN	

**M1**



*forward*

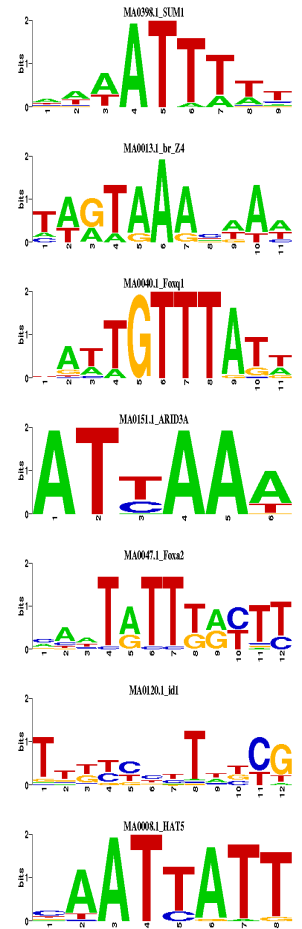
*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	5.7562e-07	AAATTTTTTTTTTAAAAAAAATT ---TTTCTTTT-----	
MA0010.1_br_Z1	1.1455e-05	AAATTTTTTTTTTAAAAAAAATT -----NTNATARACAARWN	
MA0041.1_Foxd3	5.4752e-05	AAATTTTTTTTTTAAAAAAAATT- -----AAANAAACAWTN	

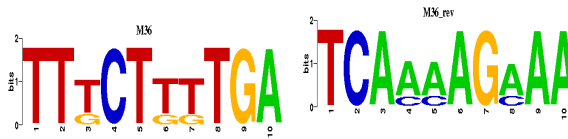
Stamp Results

04/30/14

MA0398.1_SUM1	2.8422e-04	AATTTTTTTTTTAAAAAAAAAATTT- -----NAAAATTWN
MA0013.1_br_Z4	7.5329e-04	AATTTTTTTTTTAAAAAAAAAATTT --WTWNTTTACTA-----
MA0040.1_Foxq1	1.2247e-03	AAATTTTTTTTTTAAAAAAAAAATT -----WATAAACCAATN
MA0151.1_ARID3A	3.0157e-03	AAATTTTTTTTTTAAAAAAAAAATT -----TTAAT-----
MA0047.1_Foxa2	3.4674e-03	AAATTTTTTTTTTAAAAAAAAAATT- -----AARYAAATANTN
MA0120.1_id1	3.5604e-03	AAATTTTTTTTTTAAAAAAAAAATT -----CGNNANNRRMNA--
MA0008.1_HAT5	4.0522e-03	AAATTTTTTTTTTAAAAAAAAAATT- -----ATAATTN



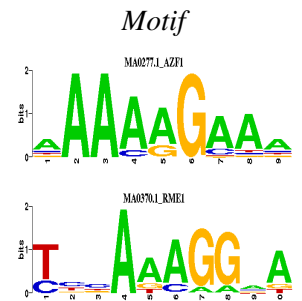
M36



*forward*

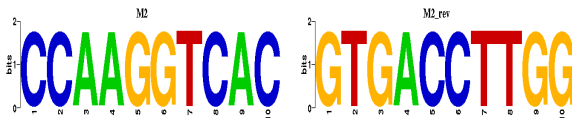
*reverse compliment*

Name	E value	Alignment
MA0277.1_AZF1	7.2267e-11	TTTCTTTTGA TTTCTTTTT-
MA0370.1_RME1	3.2612e-06	TTTCTTTTGA- -TNCCTTTNNA



MA0287.1_CUP2	3.1280e-04	--TTTCTTTTGA CWTTYTGCTG--	
MA0137.1_STAT1	9.9442e-04	-TCAAAAGAAA--- RGAAANNGAAACTN	
MA0120.1_id1	1.9112e-03	-TCAAAAGAAA- CGNNANNRRMNA	
MA0053.1_MNB1A	2.3266e-03	TTTCTTTTGA --NCTTT---	
MA0039.1_Klf4	2.4494e-03	--TTTCTTTTGA CCTTYYYTTN--	
MA0142.1_Pou5f1	3.4418e-03	----TCAAAAGAAA- ATTTGCATNACAAG	
MA0222.1_exd	3.6072e-03	--TCAAAAGAAA TGTCAAAN----	
MA0127.1_PEND	4.4423e-03	TCAAAAGAAA- -MATAAGAANT	

M2



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0160.1\_NR4A2

4.0288e-12

GTGACCTTGG  
GTGACCTT--

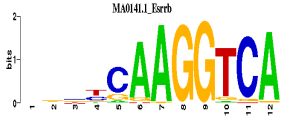
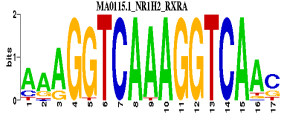
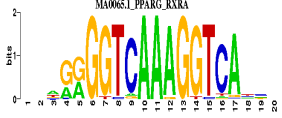
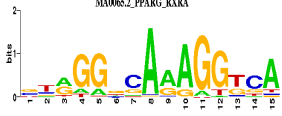

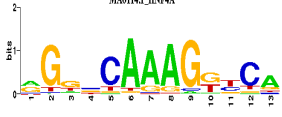
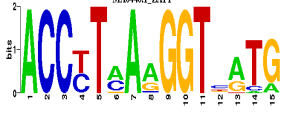
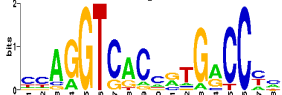


MA0071.1\_RORA\_1

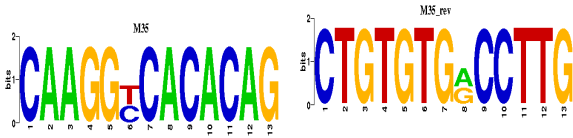
1.6138e-09

GTGACCTTGG-  
-TGACCTNNWW




MA0141.1_Esrrb	6.1661e-09	---CCAAGGTCAC NNNYCAAGGTCA-	
MA0115.1_NR1H2_RXRA	9.6627e-07	-GTGACCTTGG----- STTGACCTTTGACCTTT	
MA0065.1_PPARG_RXRA	2.2759e-06	--GTGACCTTGG----- NNNTGACCTTTGACCYCNNN	
MA0065.2_PPARG_RXRA	3.3737e-06	-----CCAAGGTCAC NNRGGNCAAAGGKCA-	
MA0017.1_NR2F1	5.0787e-06	GTGACCTTGG----- -TGAMCTTTGNMCNN	
MA0114.1_HNF4A	5.6006e-06	----CCAAGGTCAC RGNNCAAAGKNCA-	
MA0440.1_ZAP1	2.2633e-05	-GTGACCTTGG----- CATNACCTTKARGGT	
MA0112.1_ESR1	1.3715e-04	-----GTGACCTTGG NNGGYCANNGTGACCTNN-	

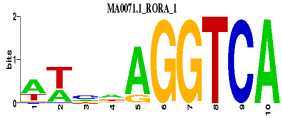
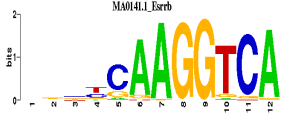

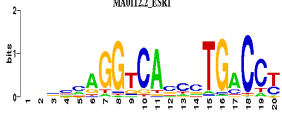



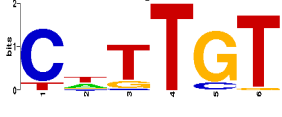
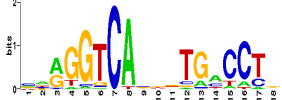
**M35**



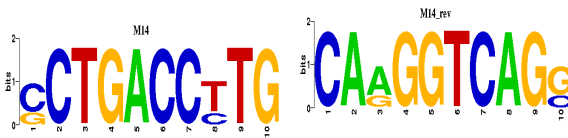
*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0160.1_NR4A2	8.1140e-10	CTGTGTGRCCTTG ----GTGACCTT-	

MA0071.1_RORA_1	7.8752e-07	CTGTGTGRCCTTG-- -----TGACCTNNWW	
MA0141.1_Esrrb	7.9884e-06	----CAAGGYCACACAG NNNYCAAGGTCA-----	
MA0334.1_MET32	1.2246e-04	CTGTGTGRCCTTG ---TG TG GCN---	
MA0112.2_ESR1	1.9712e-04	----CTGTGTGRCCTTG--- RGGTCANNNTGACCTNNNNN	
MA0332.1_MET28	2.0428e-04	CAAGGYCACACAG -----CCACAG	
MA0115.1_NR1H2_RXRA	9.4505e-04	CAAGGYCACACAG---- AAAGGTCAAAGGTCAAS	
MA0114.1_HNF4A	1.5653e-03	CTGTGTGRCCTTG----- -----TGNMCTTTGNNCY	
MA0442.1_SOX10	2.2883e-03	CAAGGYCACACAG -----ACA AWG	
MA0258.1_ESR2	2.4685e-03	CAAGGYCACACAG----- -NAGGNCANNNTGACCYNN	

**M14**



*forward*

*reverse compliment*

*Name*

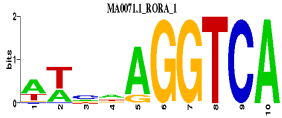
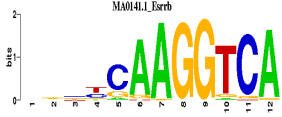
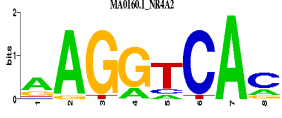
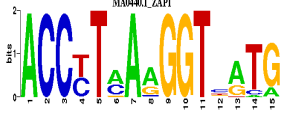
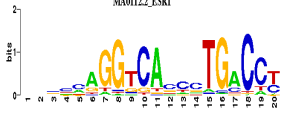
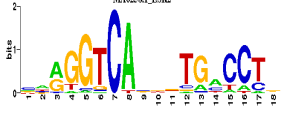
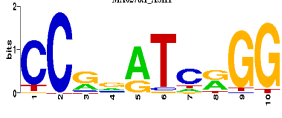


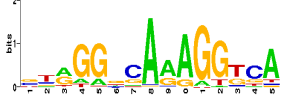
*E value*

*Alignment*

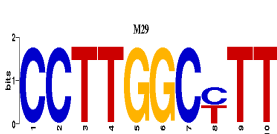
*Motif*

Stamp Results

04/30/14

MA0071.1_RORA_1	1.7369e-09	CCTGACCTTG-- --TGACCTNNWW	
MA0141.1_Esrrb	1.1539e-08	----CAAGGTCAGG NNNYCAAGGTCA--	
MA0160.1_NR4A2	3.0573e-08	CCTGACCTTG -GTGACCTT-	
MA0440.1_ZAP1	1.0574e-06	CCTGACCTTG----- CATNACCTTKARGGT	
MA0112.2_ESR1	1.1360e-06	CAAGGTCAGG----- --RGGTCANNNTGACCTNNNNN	
MA0258.1_ESR2	2.1460e-05	-----CCTGACCTTG NAGGNCANNNTGACCYNN	
MA0276.1_ASH1	3.1669e-05	CCTGACCTTG CCYGATNYGG	
MA0115.1_NR1H2_RXRA	5.0426e-05	CCTGACCTTG----- STTGACCTTTGACCTTT	
MA0017.1_NR2F1	1.2220e-04	-----CAAGGTCAGG NNGKNCAAAGKTCA--	
MA0065.2_PPARG_RXRA	1.3293e-04	-----CAAGGTCAGG NNRGGNCAAAGGKCA--	

M29



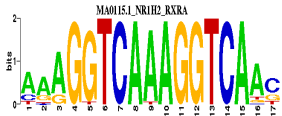

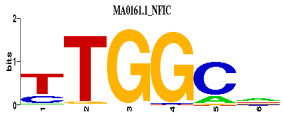

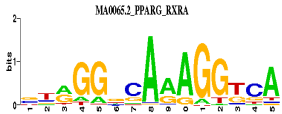





*forward*



*reverse complement*



<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0368.1_RIM101	1.1714e-06	CCTTGGCYTT -CTTGGCR--	
MA0459.1_tll	4.4923e-05	-AARGCCAAGG AAAAGTCAAM-	
MA0115.1_NR1H2_RXRA	9.4569e-05	-----CCTTGGCYTT- STTGACCTTTGACCTTT	
MA0290.1_DAL81	1.0859e-04	-----CCTTGGCYTT- AATCCCGCCCGCGCTTTT	
MA0161.1_NFIC	1.2171e-04	AARGCCAAGG --NGCCAA--	
MA0053.1_MNB1A	2.4300e-04	CCTTGGCYTT -----NCTTT	
MA0065.2_PPARG_RXRA	2.4975e-04	---CCTTGGCYTT-- TGMCCTTTGNCYNN	
MA0313.1_HAP2	2.9053e-04	AARGCCAAGG ---RCCAA--	
MA0064.1_PBF	3.4984e-04	CCTTGGCYTT -----RCTTT	
MA0263.1_ttx-3_c	3.9180e-04	CCTTGGCYTT----- -ATTGGYTTMGTTAR	

M39



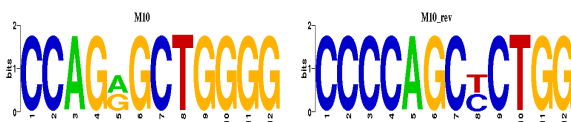
*forward*



*reverse compliment*



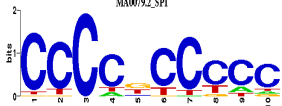







Name	E value	Alignment	Motif
MA0440.1_ZAP1	4.0578e-05	CCATGTCCTT----- -CATNACCTTKARGGT	
MA0328.1_MATALPHA2	1.1373e-04	CCATGTCCTT -CATGTAATT	
MA0405.1_TEA1	1.5798e-04	CCATGTCCTT --NWGYSCGC	
MA0106.1_TP53	4.0332e-04	-----CCATGTCCTT ACATGCCCGGGCATGTCNN	
MA0160.1_NR4A2	7.0757e-04	CCATGTCCTT --GTGACCTT	
MA0059.1_MYC_MAX	2.8245e-03	-CCATGTCCTT ACCACGTGSTN	
MA0312.1_HAP1	3.4510e-03	CCATGTCCTT -NAWNTCCG-	
MA0120.1_id1	4.1790e-03	----AAGGACATGG CGNNANRRMNA--	
MA0156.1_FEV	5.1203e-03	CCATGTCCTT --AYTTCCTG	
MA0097.1_bZIP911	5.7607e-03	--CCATGTCCTT GCCACGTCAYC	

**M10**

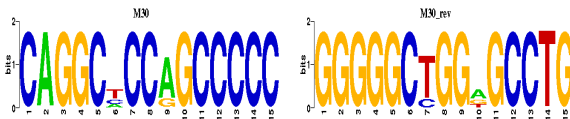


*forward*

*reverse compliment*

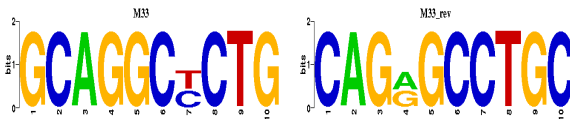
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	3.2079e-04	CCAGRGCTGGGG-- -----NCCGGGGA	
MA0276.1_ASH1	7.8154e-04	CCAGRGCTGGGG CCRNATCRGG--	
MA0079.2_SP1	1.0480e-03	CCAGRGCTGGGG -GGGGNGGGG-	
MA0332.1_MET28	1.1280e-03	CCCCAGCYCTGG CCACAG-----	
MA0267.1_ACE2	1.6178e-03	CCAGRGCTGGGG ----NGCTGGN-	
MA0083.1_SRF	1.7645e-03	CCAGRGCTGGGG CCATATATGGGC	
MA0268.1_ADR1	1.8944e-03	CCAGRGCTGGGG-- -----KTGGGGN	
MA0436.1_YPR022C	1.9463e-03	CCAGRGCTGGGG -----NGTGGGG	
MA0335.1_MET4	2.9850e-03	CCAGRGCTGGGG CCACAGNT----	
MA0402.1_SWI5	5.2738e-03	CCCCAGCYCTGG NACCAGCA----	

**M30**



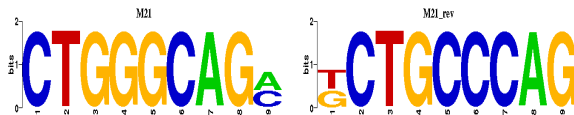
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	6.9026e-06	CAGGCNCCAGCCCC -----CCCCNCCCC	
MA0443.1_btd	3.6204e-04	-GGGGGCTGGNGCCTG NGKGGGCGGR-----	
MA0450.1_hkb	1.1550e-03	CAGGCNCCAGCCCC -----TCACGCCM-	
MA0213.1_brk	1.6673e-03	CAGGCNCCAGCCCC --RGCGCCRS-----	
MA0039.2_Klf4	1.9151e-03	CAGGCNCCAGCCCC ---GCCMCRCCN--	
MA0145.1_Tcfcp2l1	3.1728e-03	GGGGGCTGGNGCCTG -CYGNTNNRNCYGG	
MA0267.1_ACE2	3.9360e-03	GGGGGCTGGNGCCTG ---NGCTGGN-----	
MA0410.1_UGA3	4.4562e-03	CAGGCNCCAGCCCC -----TCCGCCN--	
MA0341.1_MSN2	5.2481e-03	GGGGGCTGGNGCCTG AGGGG-----	
MA0146.1_Zfx	5.4259e-03	CAGGCNCCAGCCCC NAGGCCNNGCANN-	

M33



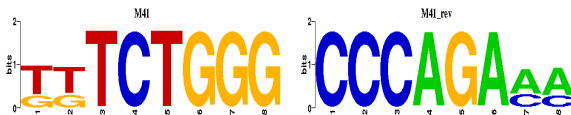
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0450.1_hkb	3.9370e-03	GCAGGCYCTG TCACGCCCM-	
MA0364.1_REI1	5.6260e-03	-CAGRGCCTGC NCAGGG-----	
MA0106.1_TP53	1.4563e-02	-----CAGRGCCTGC----- ACATGCCCGGGCATGTCCNN	
MA0086.1_sna	1.4724e-02	CAGRGCCTGC ---CACCTG-	
MA0340.1_MOT3	2.0691e-02	CAGRGCCTGC ---TRCCTN-	
MA0316.1_HAP5	2.5533e-02	-----CAGRGCCTGC ACCAATNAGMNSSN-	
MA0366.1_RGM1	3.0272e-02	CAGRGCCTGC -AGGGG----	
MA0342.1_MSN4	3.2523e-02	GCAGGCYCTG ----CCCCT-	
MA0138.1_REST	3.4347e-02	-----CAGRGCCTGC-- TCAGCACWNGGACAGCNC	
MA0007.1_Ar	3.4511e-02	----GCAGGCYCTG----- NNNAGNACANNNTGTNCCNNMN	


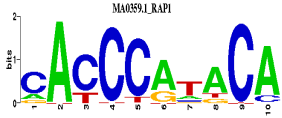
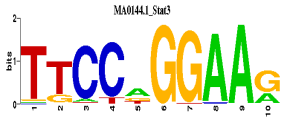
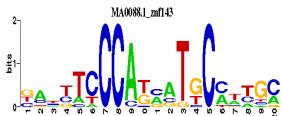
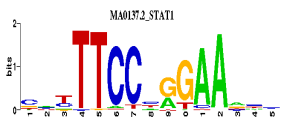

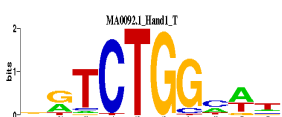

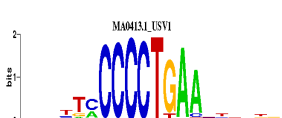

M21



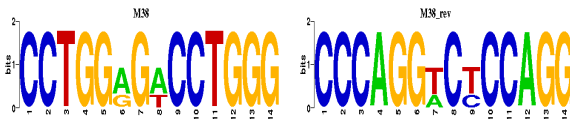
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0320.1_IME1	7.3818e-04	CTGGGCAGM CTCGGCGG-	
MA0138.1_REST	9.5388e-04	-----CTGGGCAGM-- TCAGCACCCWNGGACAGCNC	
MA0138.2_REST	1.4222e-03	---KCTGCCAG----- GNNCTGTCCNNGGTGCTGAN	
MA0368.1_RIM101	2.1210e-03	CTGGGCAGM CTTGCCR--	
MA0123.1_abi4	2.8164e-03	CTGGGCAGM- NGNNGCRSCG	
MA0065.2_PPARG_RXRA	4.4095e-03	-----KCTGCCAG- TGMCCTTTGNCCYNN	
MA0140.1_Tal1_Gata1	6.0279e-03	----KCTGCCAG----- NTTATCTNNNNNNNCNN	
MA0162.1_Egr1	7.4854e-03	KCTGCCAG--- -MCGCCACGCN	
MA0326.1_MAC1	8.4301e-03	CTGGGCAGM -YGAGCAA	
MA0106.1_TP53	9.1701e-03	-KCTGCCAG----- ACATGCCCGGGCATGTCCNN	








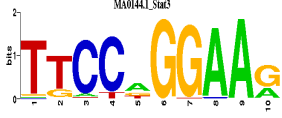
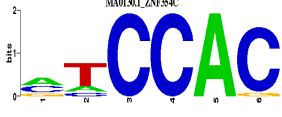

M41



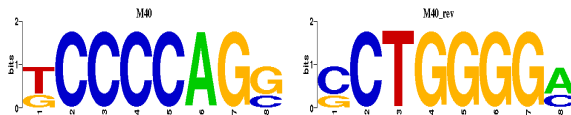
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0155.1_INSM1	8.4318e-06	----CCCAGAAA YGCCCCCTGRCA	
MA0359.1_RAP1	1.4832e-04	TTTCTGGG-- TGTATGGGTG	
MA0144.1_Stat3	5.9531e-04	-TTTCTGGG- CTTCCNGGAA	
MA0088.1_znf143	1.0704e-03	-----TTTCTGGG----- KCNKGMANNMTGGANNNN	
MA0137.2_STAT1	1.0967e-03	----CCCAGAAA-- NNYTTCNGGAANNN	
MA0362.1_RDS2	1.1680e-03	TTTCTGGG -NTCGGGG	
MA0092.1_Hand1_T	1.9111e-03	TTTCTGGG-- NRCTGTGNWN	
MA0402.1_SWI5	2.9397e-03	-CCCAGAAA NACCAGCA-	
MA0413.1_USV1	3.3309e-03	-----TTTCTGGG----- NNNNNNTTCAGGGGKANNNN	
MA0026.1_Eip74EF	3.3804e-03	TTTCTGGG YTTCGG-	

M38



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0086.1_sna	5.5870e-04	CCTGGAGACCTGGG -----CACCTG--	
MA0018.1_CREB1	6.8615e-04	CCCAGGTCTCCAGG --NACGTCANCMNN	
MA0128.1_EmBP-1	2.1511e-03	CCCAGGTCTCCAGG -CCACGTST-----	
MA0097.1_bZIP911	2.3407e-03	-CCCAGGTCTCCAGG GGCCACGTCAYC---	
MA0154.1_EBF1	3.4016e-03	--CCTGGAGACCTGGG TCCCTNGGGN-----	
MA0160.1_NR4A2	3.5205e-03	CCTGGAGACCTGGG ----GTGACCTT--	
MA0112.1_ESR1	4.8839e-03	CCCAGGTCTCCAGG----- -NNAGGTCACNNTGRCCNN	
MA0144.1_Stat3	7.4749e-03	---CCTGGAGACCTGGG CTTCCNGGAA-----	
MA0130.1_ZNF354C	1.0994e-02	CCTGGAGACCTGGG -GTGGAK-----	
MA0163.1_PLAG1	1.8221e-02	---CCCAGGTCTCCAGG CCCCCTTNGGCCCC---	

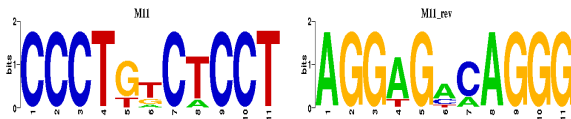
**M40**



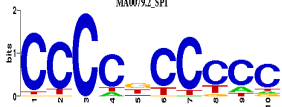


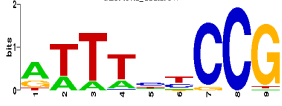








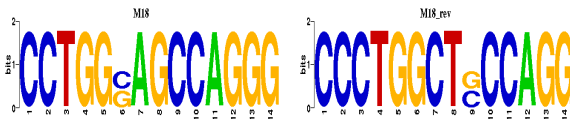
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0154.1_EBF1	5.6477e-06	--CCTGGGGA TCCCTNGGGN	
MA0344.1_NHP10	3.3640e-05	CCTGGGGA NCCGGGGA	
MA0056.1_MZF1_1-4	5.6212e-05	TCCCAGG TCCCN--	
MA0332.1_MET28	1.6557e-04	TCCCAGG -CCACAG-	
MA0003.1_TFAP2A	1.7170e-04	-CCTGGGGA SCNNNNGGC	
MA0268.1_ADR1	2.1007e-04	CCTGGGGA -KTGGGN	
MA0436.1_YPR022C	2.1708e-04	CCTGGGGA NGTGGG-	
MA0018.1_CREB1	5.3225e-04	----TCCCAGG NACGTCANCMNN	
MA0116.1_Zfp423	6.3775e-04	-----CCTGGGGA-- GNMMCCYTRGGKSC	
MA0337.1_MIG1	1.0349e-03	CCTGGGGA -SYGGGN	

**M11**



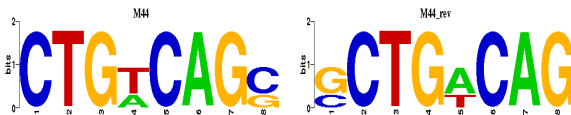
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0207.1_achi	2.7050e-04	CCCTGTCTCCT --CTGTCA---	
MA0227.1_hth	5.4192e-04	CCCTGTCTCCT --CTGTCA---	
MA0079.2_SP1	6.7536e-04	AGGAGACAGGG -GGGGNGGGG	
MA0364.1_REI1	1.2232e-03	AGGAGACAGGG- -----NCAGGGG	
MA0115.1_NR1H2_RXRA	3.4282e-03	----CCCTGTCTCCT-- STTGACCTTTGACCTTT	
MA0437.1_YPR196W	4.5820e-03	AGGAGACAGGG CGGRNAAAT--	
MA0366.1_RGM1	5.5788e-03	AGGAGACAGGG- -----AGGGG	
MA0342.1_MS4	6.1085e-03	-CCCTGTCTCCT CCCCT-----	
MA0354.1_PDR8	6.4662e-03	CCCTGTCTCCT- ----ATCTCCGN	
MA0432.1_YNR063W	6.6268e-03	CCCTGTCTCCT- ----ATCTCCGA	








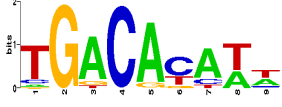
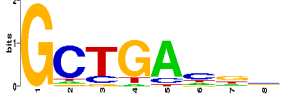

**M18**



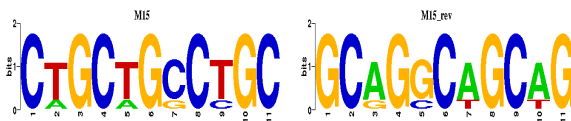
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0304.1_GCR1	2.2823e-05	CCCTGGCTSCCAGG ----GGCTTCCA--	
MA0344.1_NHP10	6.1097e-04	-CCCTGGCTSCCAGG TCCCCGN-----	
MA0116.1_Zfp423	1.3039e-03	----CCCTGGCTSCCAGG GNMMCCYTRGGKKS---	
MA0364.1_REI1	2.5560e-03	CCTGGSAGCCAGGG- -----NCAGGGG	
MA0213.1_brk	3.8482e-03	CCTGGSAGCCAGGG ----RGCGCCRS--	
MA0163.1_PLAG1	5.5225e-03	---CCCTGGCTSCCAGG CCCCCTTNGGCCCC---	
MA0366.1_RGM1	1.0042e-02	CCTGGSAGCCAGGG- -----AGGGG	
MA0368.1_RIM101	1.0825e-02	CCTGGSAGCCAGGG -----YGCCAAG-	
MA0342.1_MSN4	1.0947e-02	-CCCTGGCTSCCAGG CCCCT-----	
MA0155.1_INSM1	1.1277e-02	----CCCTGGCTSCCAGG YGCCCCCTGRCA-----	







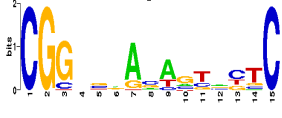
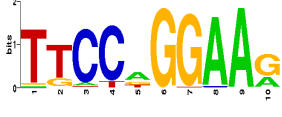
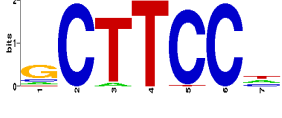

M44



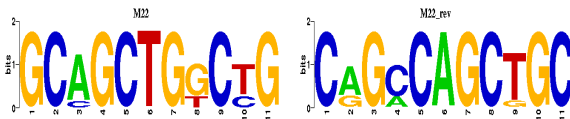
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0207.1_achi	1.6270e-08	CTGTCAGC CTGTCA--	
MA0227.1_hth	5.0816e-08	CTGTCAGC CTGTCA--	
MA0252.1_vis	4.2645e-05	CTGTCAGC NTGTCA--	
MA0298.1_FZF1	3.6181e-04	GCTGACAG --TGATAG	
MA0155.1_INSM1	8.5187e-04	-----GCTGACAG YGCCCCCTGRCA--	
MA0408.1_TOS8	1.2706e-03	GCTGACAG NTTGACAN	
MA0204.1_Six4	2.2296e-03	CTGTCAGC GTNTCA--	
MA0288.1_CUP9	2.6720e-03	---CTGTCAGC WWTGTGTCA--	
MA0117.1_MafB	2.7124e-03	CTGTCAGC NNNTCAGC	
MA0096.1_bZIP910	3.3843e-03	GCTGACAG -MTGACGT	

M15



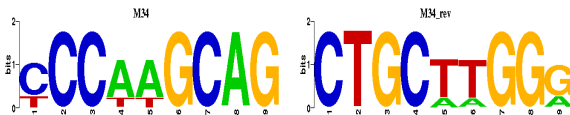
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0055.1_Myf	3.5872e-05	---CTGCTGCCTGC CAGCAGYTG CYK---	
MA0340.1_MOT3	3.2125e-04	CTGCTGCCTGC ----TRCC TN-	
MA0323.1_IXR1	6.4012e-04	--CTGCTGCCTGC-- CMCCGCTTCCGGYTT	
MA0405.1_TEA1	3.2260e-03	CTGCTGCCTGC ---NWGYSCGC	
MA0048.1_NHLH1	3.7839e-03	GCAGGCAGCAG--- --NCGCAGCTGCGN	
MA0156.1_FEV	4.1138e-03	CTGCTGCCTGC --AYTTCTCG-	
MA0299.1_GAL4	4.6552e-03	-----CTGCTGCCTGC GANNRNTNTNNNCCG-	
MA0144.1_Stat3	5.0307e-03	CTGCTGCCTGC-- ---CTTCCNGGAA	
MA0305.1_GCR2	6.4248e-03	GCAGGCAGCAG --NGGAAGC--	
MA0080.2_SPI1	7.6139e-03	CTGCTGCCTGC --ACTTCT--	

M22



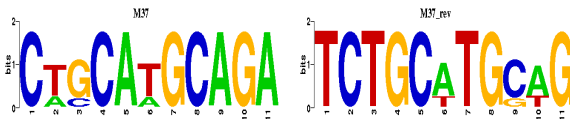
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0048.1_NHLH1	2.5597e-05	--GCAGCTGGCTG NCGCAGCTGCGN-	
MA0055.1_Myf	1.1180e-04	--GCAGCTGGCTG CAGCAGYTGCYK-	
MA0290.1_DAL81	4.7886e-04	----CAGCCAGCTGC---- AATCCCGCCCGGGCTTTT	
MA0086.1_sna	1.0067e-03	GCAGCTGGCTG -CACCTG----	
MA0267.1_ACE2	1.5556e-03	GCAGCTGGCTG --NGCTGGN--	
MA0091.1_TAL1_TCF3	5.0640e-03	CAGCCAGCTGC- NNAMCATCTGKT	
MA0402.1_SWI5	5.6553e-03	CAGCCAGCTGC -NACCAGCA--	
MA0138.2_REST	7.0315e-03	-----CAGCCAGCTGC NTCAGCACCNNGGACAGCNC	
MA0373.1_RPN4	8.5220e-03	CAGCCAGCTGC -CGCCACC---	
MA0456.1_opa	1.0529e-02	--CAGCCAGCTGC GMCCCCCGCNG-	

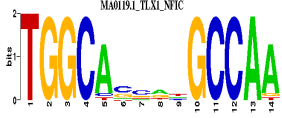
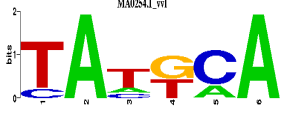
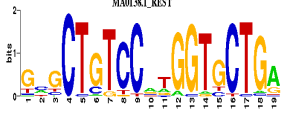


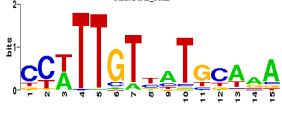
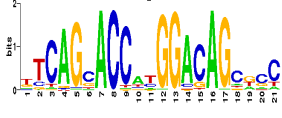



M34



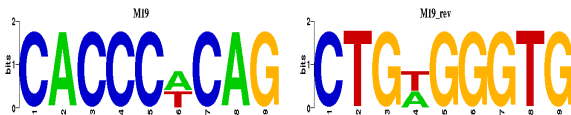
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0314.1_HAP3	1.0982e-04	-----CCCAAGCAG-- NYYNRRCCAATSAGA	
MA0316.1_HAP5	1.2008e-04	CCCAAGCAG----- ACCAATNAGMNNSSN	
MA0060.1_NFYA	2.6024e-04	---CTGCTTGGG---- NNNCYSATTGGYNNN	
MA0331.1_MCM1	3.1027e-04	---CTGCTTGGG TTCCYAAWNNGG	
MA0359.1_RAP1	3.8118e-04	--CCCAAGCAG CACCCATACA-	
MA0368.1_RIM101	5.4576e-04	CTGCTTGGG-- ---CTTGGCR	
MA0417.1_YAP5	6.6569e-04	CCCAAGCAG ---AAGCAT	
MA0154.1_EBF1	1.0601e-03	CTGCTTGGG-- TCCCTNGGNN	
MA0163.1_PLAG1	1.2007e-03	----CCCAAGCAG-- GGGGCCNAAGGGGG	
MA0162.1_Egr1	3.3070e-03	---CCCAAGCAG MCGCCACGCN-	

M37



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0119.1_TLX1_NFIC	6.7775e-04	---CTGCATGCAGA TGGCASNNNGCCAA	
MA0254.1_vv1	1.4974e-03	TCTGCATGCAG --TGMATA---	
MA0138.1_REST	4.9925e-03	----CTGCATGCAGA---- TCAGCACCWNGGACAGCNC	
MA0322.1_INO4	8.2929e-03	TCTGCATGCAG TTCACATGC--	
MA0142.1_Pou5f1	9.7022e-03	---CTGCATGCAGA- CWTGTNATGCAAAT	
MA0143.1_Sox2	1.0044e-02	TCTGCATGCAG---- TNTGCATNACAAWGG	
MA0138.2_REST	1.0215e-02	----CTGCATGCAGA---- NTCAGCACCNNGGACAGCNC	
MA0304.1_GCR1	1.2730e-02	TCTGCATGCAG --GGCTTCCA-	
MA0453.1_nub	1.4336e-02	----TCTGCATGCAG NTNATTTGCATA---	
MA0274.1_ARR1	1.5637e-02	CTGCATGCAGA- ----ATTCARNT	

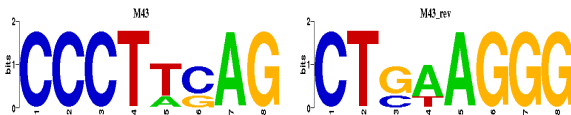
**M19**





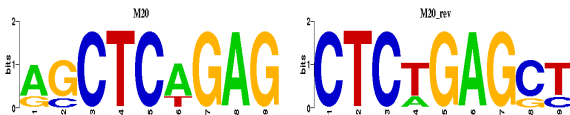
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	2.2536e-07	CACCCWCAG ---CCACAG	
MA0335.1_MET4	4.8933e-05	CACCCWCAG-- ---CCACAGNT	
MA0359.1_RAP1	5.1757e-05	-CTGWGGGTG TGTATGGGTG	
MA0002.2_RUNX1	5.7576e-05	CACCCWCAG-- NAACCACARNN	
MA0112.2_ESR1	1.4982e-03	-----CACCCWCAG-- NNNNNAGGTCANNNTGACCY	
MA0270.1_AFT2	1.5039e-03	CTGWGGGTG-- ---NGGGTGTN	
MA0334.1_MET32	2.0137e-03	CTGWGGGTG -TGTGGCN-	
MA0436.1_YPR022C	2.0800e-03	CTGWGGGTG -NGTGGGG-	
MA0162.1_Egr1	2.4856e-03	-CACCCWCAG- MCGCCCACGCN	
MA0073.1_RREB1	3.9916e-03	---CTGWGGGTG----- NGKKKGKGGGTGKTTTGGGG	

M43



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0247.1_tin	3.1294e-05	CTGAAGGG YTCAAGTG	
MA0154.1_EBF1	8.6455e-05	-CCCTTCAG- TCCCTNGGGN	
MA0014.1_Pax5	4.1616e-04	-----CTGAAGGG----- NGNNNNNYGNWGCGRCSR	
MA0163.1_PLAG1	1.6533e-03	--CCCTTCAG---- CCCCCTNGGCCCC	
MA0366.1_RGM1	1.7687e-03	CTGAAGGG- ----AGGGG	
MA0342.1_MSND	1.9583e-03	-CCCTTCAG CCCCT----	
MA0069.1_Pax6	2.1322e-03	--CTGAAGGG---- MANTSAWGCCTGAA	
MA0253.1_vnd	2.3280e-03	-CTGAAGGG TYTCAAGTR	
MA0264.1_ceh-22	3.4157e-03	-CTGAAGGG-- NNTCAAGTGGN	
MA0341.1_MSND	3.6912e-03	CTGAAGGG- ----AGGGG	

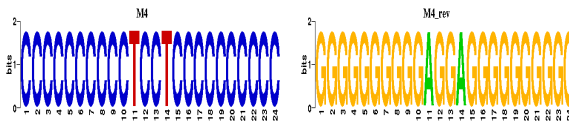
M20





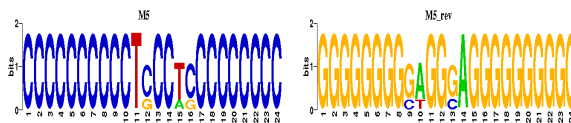
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0326.1_MAC1	4.3271e-03	CTGAGCTCC -YGAGCAA	
MA0316.1_HAP5	4.3834e-03	----CTGAGCTCC-- ACCAATNAGMNNSSN	
MA0354.1_PDR8	7.6958e-03	CTGAGCTCC-- ---ATCTCCGN	
MA0159.1_RXR_RAR_DR5	1.0073e-02	CTGAGCTCC----- -TGACCTNYNNNTGAMCY	
MA0048.1_NHLH1	1.3737e-02	--GGAGCTCAG- NCGCAGCTGCGN	
MA0432.1_YNR063W	1.4963e-02	CTGAGCTCC-- ---ATCTCCGA	
MA0160.1_NR4A2	1.5081e-02	CTGAGCTCC GTGACCTT-	
MA0430.1_YLR278C	1.9903e-02	GGAGCTCAG- --AACTCCGN	
MA0350.1_TOD6	2.2949e-02	-----CTGAGCTCC----- NNNNNGCGATGAGSTNNNNNN	
MA0112.2_ESR1	2.4584e-02	-----CTGAGCTCC NNNNNAGGTCANNNTGACCY--	

M4



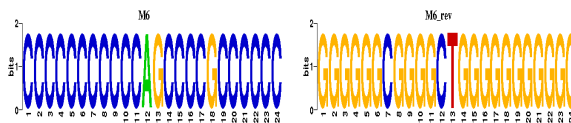
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0068.1_Pax4	6.2811e-12	GGGGGGGGGGAGGAGGGGGGGGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	
MA0073.1_RREB1	1.4953e-10	GGGGGGGGGGAGGAGGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-----	
MA0079.2_SP1	1.4226e-08	CCCCCCCCCTCCTCCCCCCCCCC CCCNCCCC-----	
MA0149.1_EWSR1-FLI1	7.7235e-06	CCCCCCCCCTCCTCCCCCCCCCC ---CCTTCCTTCCTTCCTTCC---	
MA0443.1_btd	6.6132e-05	CCCCCCCCCTCCTCCCCCCCCCC -----YCCGCCMCN-----	
MA0366.1_RGM1	9.1437e-05	CCCCCCCCCTCCTCCCCCCCCCC -----CCCCT-----	
MA0342.1_MSN4	9.5799e-05	GGGGGGGGGGAGGAGGGGGGGGGG -----AGGG-----	
MA0456.1_opa	1.4927e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----CNGCGGGGGK	
MA0163.1_PLAG1	1.8929e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----GGGGCCNAAGGGG-----	
MA0341.1_MSN2	2.2379e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----AGGG-----	

M5



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	5.2514e-11	-GGGGGGGGGAGGGAGGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-----	
MA0068.1_Pax4	6.9607e-09	GGGGGGGGGAGGGAGGGGGGGGGG----- -GKRNNNNKNNNNNNNNNNNNKNNWWWTTTY	
MA0079.2_SP1	1.4226e-08	CCCCCCCCCTCCCTCCCCCCCCC CCCNCCCC-----	
MA0149.1_EWSR1-FLI1	1.4350e-05	CCCCCCCCCTCCCTCCCCCCCCC ---CCTTCCTTCCTTCCTTCC---	
MA0366.1_RGM1	9.1437e-05	CCCCCCCCCTCCCTCCCCCCCCC -----CCCT-----	
MA0342.1_MSN4	9.5799e-05	GGGGGGGGGAGGGAGGGGGGGGGG -----AGGG-----	
MA0456.1_opa	1.4927e-04	GGGGGGGGGAGGGAGGGGGGGGGG -----CNGCGGGGGK	
MA0341.1_MSN2	2.2379e-04	GGGGGGGGGAGGGAGGGGGGGGGG -----AGGG-----	
MA0443.1_btd	2.6673e-04	CCCCCCCCCTCCCTCCCCCCCCC -----YCCGCCMCN	
MA0140.1_Tal1_Gata1	4.2070e-04	CCCCCCCCCTCCCTCCCCCCCCC-- -----NTTATCTNNNNNNNNC	

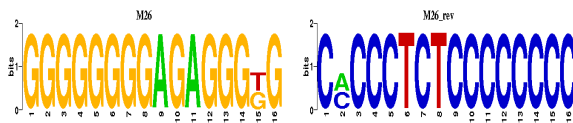
**M6**





	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0068.1_Pax4	5.6350e-07	GGGGGGGCTGGAGGGSAGGGGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	
MA0079.2_SP1	5.9241e-07	CCCCCTSCCCTCCAGCCCCCCC --CCCNCCCC-----	
MA0149.1_EWSR1-FLI1	1.4869e-05	CCCCCTSCCCTCCAGCCCCCCC CCTTCCTTCCTTCCTTCC-----	
MA0073.1_RREB1	7.3882e-05	GGGGGGGCTGGAGGGSAGGGGGG -NGKKKGKGGGTGKTTTGGGG--	
MA0366.1_RGM1	8.4483e-05	CCCCCTSCCCTCCAGCCCCCCC --CCCT-----	
MA0342.1_MSN4	8.8494e-05	GGGGGGGCTGGAGGGSAGGGGGG -----AGGGG--	
MA0341.1_MSN2	2.0604e-04	GGGGGGGCTGGAGGGSAGGGGGG -----AGGGG--	
MA0163.1_PLAG1	3.4907e-04	CCCCCTSCCCTCCAGCCCCCCC -----CCCCTTNGCCCC--	
MA0456.1_opa	7.6802e-04	----GGGGGGGCTGGAGGGSAGGGGGG CNGCGGGGGGKC-----	
MA0364.1_REI1	1.0496e-03	GGGGGGGCTGGAGGGSAGGGGGG -----NCAGGGG--	

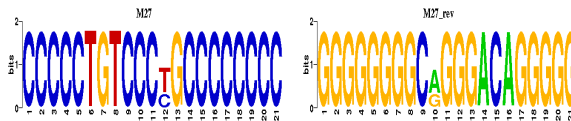
M26





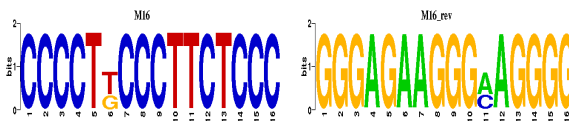
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0068.1_Pax4	1.0410e-08	GGGGGGGAGAGGGK----- GKRNNNNKNNNNNNNNNNKNNWWTWTYY	
MA0079.2_SP1	5.9528e-08	GGGGGGGAGAGGGK ---GGGGNGGGG---	
MA0163.1_PLAG1	4.1131e-06	CMCCCTCTCCCCCCCC CCCCCTTNGGCCCC--	
MA0443.1_btd	2.0618e-05	CMCCCTCTCCCCCCCC- -----YCCGCCMCN	
MA0140.1_Tal1_Gata1	6.9106e-05	-CMCCCTCTCCCCCCCC- NTTATCTNNNNNNNNCNN	
MA0073.1_RREB1	7.2946e-05	CMCCCTCTCCCCCCCC---- CCCCAAMCACCCMCMCCN	
MA0056.1_MZF1_1-4	4.0138e-04	CMCCCTCTCCCCCCCC -----TCCCN---	
MA0450.1_hkb	4.3037e-04	CMCCCTCTCCCCCCCC -----TCACGCCM	
MA0065.2_PPARG_RXRA	5.8967e-04	CMCCCTCTCCCCCCCC TGMCCTTGNCCYNN-	
MA0342.1_MSNA	6.8565e-04	CMCCCTCTCCCCCCCC -CCCCT-----	


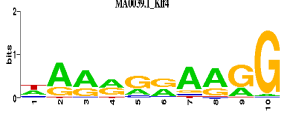


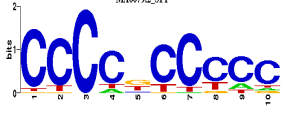

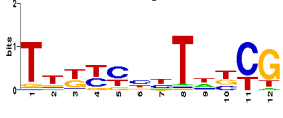

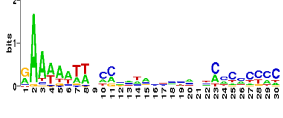
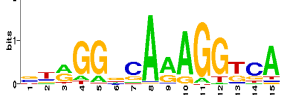
**M27**



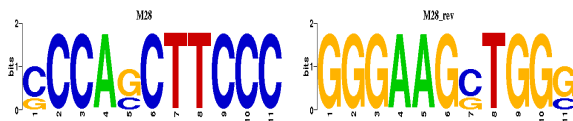
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.0326e-10	GGGGGGGGCAGGGACAGGGGG ---GGGGNGGGG-----	
MA0068.1_Pax4	2.8591e-06	-GGGGGGGGCAGGGACAGGGGG----- GKRNNNNNKNNNNNNNNNNNNNNKNNWWWTWT TY	
MA0364.1_REI1	3.2905e-05	GGGGGGGGCAGGGACAGGGGG -----NCAGGGG-	
MA0443.1_btd	4.3680e-05	CCCCCTGTCCCTGCCCCCCC -----YCCGCCMCN--	
MA0366.1_RGM1	6.9890e-05	CCCCCTGTCCCTGCCCCCCC -CCCCT-----	
MA0342.1_MSN4	7.3228e-05	GGGGGGGGCAGGGACAGGGGG -----AGGGG-	
MA0159.1_RXR_RAR_DR5	1.4943e-04	CCCCCTGTCCCTGCCCCCCC TGACCTNYNNNTGAMCY----	
MA0039.2_Klf4	1.5371e-04	CCCCCTGTCCCTGCCCCCCC- -----GCCMCRCN	
MA0341.1_MSN2	1.7139e-04	GGGGGGGGCAGGGACAGGGGG -----AGGGG-	
MA0140.1_Tal1_Gata1	1.8986e-04	--GGGGGGGGCAGGGACAGGGGG NNGNNNNNNNNAGATAAN-----	

**M16**



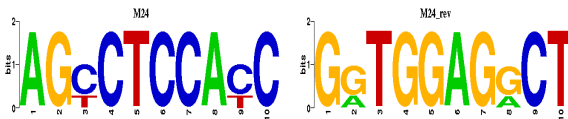
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0149.1_EWSR1-FLI1	1.8852e-07	GGGAGAAGGGMAGGGG-- GGAAGGAAGGAAGGAAGG	
MA0039.1_Klf4	2.3736e-06	GGGAGAAGGGMAGGGG ----NAARRRAAGG--	
MA0366.1_RGM1	3.6566e-05	CCCCTKCCCTTCTCCC CCCCT-----	
MA0342.1_MSN4	3.8326e-05	GGGAGAAGGGMAGGGG -----AGGGG	
MA0079.2_SP1	4.2111e-05	GGGAGAAGGGMAGGGG -----GGGGNGGGG	
MA0341.1_MSN2	9.0391e-05	GGGAGAAGGGMAGGGG -----AGGGG	
MA0120.1_id1	1.3128e-04	GGGAGAAGGGMAGGGG -CGNNANNRRMNA---	
MA0364.1_REI1	5.7518e-04	GGGAGAAGGGMAGGGG -----NCAGGGG	
MA0068.1_Pax4	9.4412e-04	-----CCCCTKCCCTTCTCCC----- RAAWAWWWNNMNNNNNNNNNNNNMNNNNNYMC	
MA0065.2_PPARG_RXRA	1.5708e-03	---GGGAGAAGGGMAGGGG NNRGGNCAAAGGKCA----	

M28



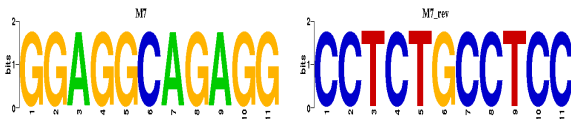
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0323.1_IXR1	2.3938e-06	CCCAGCTTCCC---- CMCCGCTTCCGGYTT	
MA0305.1_GCR2	4.6904e-06	CCCAGCTTCCC ----GCTTCN	
MA0304.1_GCR1	1.3821e-04	CCCAGCTTCCC ---GGCTTCCA	
MA0080.1_SPI1	2.4265e-04	CCCAGCTTCCC -----STTCN	
MA0080.2_SPI1	1.1459e-03	CCCAGCTTCCC ----ACTTCCT	
MA0079.2_SP1	1.2143e-03	CCCAGCTTCCC CCCCNCCCC-	
MA0048.1_NHLH1	1.6537e-03	-CCCAGCTTCCC NCGCAGCTGCGN	
MA0164.1_Nr2e3	1.7514e-03	GGGAAGCTGGG ---AAGCTTN-	
MA0026.1_Eip74EF	1.7577e-03	CCCAGCTTCCC- -----YTTCCGG	
MA0267.1_ACE2	1.9967e-03	GGGAAGCTGGG ----NGCTGGN	

M24



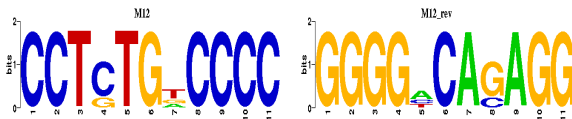
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0130.1_ZNF354C	9.5753e-06	GGTGGAGGCT -GTGGAK---	
MA0373.1_RPN4	3.6143e-05	GGTGGAGGCT GGTGGCG---	
MA0140.1_Tal1_Gata1	3.0401e-04	-----AGCCTCCACC-- NTTATCTNNNNNNNNNCNN	
MA0283.1_CHA4	3.6756e-04	AGCCTCCACC --NCTCCGCC	
MA0304.1_GCR1	4.2843e-04	AGCCTCCACC GGCTTCCA--	
MA0079.2_SP1	9.3004e-04	GGTGGAGGCT GGGGNGGGG	
MA0305.1_GCR2	6.0709e-03	GGTGGAGGCT --NGGAAGC-	
MA0436.1_YPR022C	6.2750e-03	GGTGGAGGCT NGTGGGG---	
MA0412.1_UME6	7.6902e-03	----AGCCTCCACC AWWTAGCCGCCSA-	
MA0268.1_ADR1	8.9185e-03	GGTGGAGGCT -KTGGGGN--	

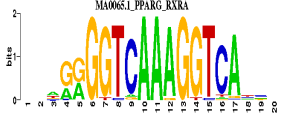
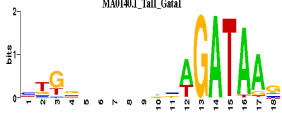

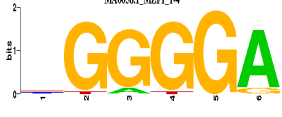

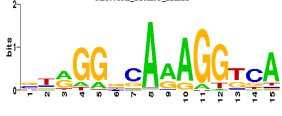



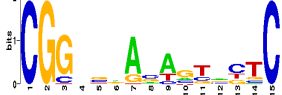
M7



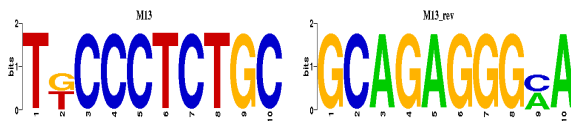
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.2_PPARG_RXRA	2.2246e-05	---CCTCTGCCTCC- TGMCCCTTTGNCCYNN	
MA0079.2_SP1	3.1774e-04	GGAGGCAGAGG GGGGNGGGG-	
MA0283.1_CHA4	4.0311e-04	CCTCTGCCTCC NCTCCGCC---	
MA0140.1_Tal1_Gata1	6.0211e-04	--CCTCTGCCTCC----- NTTATCTNNNNNNNNNCNN	
MA0443.1_btd	1.0025e-03	CCTCTGCCTCC- --YCCGCCMCN	
MA0340.1_MOT3	1.3149e-03	CCTCTGCCTCC ----TRCCTN-	
MA0065.1_PPARG_RXRA	2.7166e-03	-----CCTCTGCCTCC--- NNNTGACCTTTGACCYCINN	
MA0146.1_Zfx	4.7749e-03	GGAGGCAGAGG---- -NAGCCNNGGCINN	
MA0364.1_REI1	5.1630e-03	GGAGGCAGAGG ----NCAGGGG	
MA0099.2_API	5.6464e-03	GGAGGCAGAGG TGAGTCA----	

M12



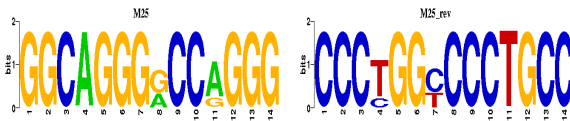
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.1_PPARG_RXRA	1.5605e-06	-----CCTCTGNCCCC-- NNNTGACCTTTGACCYCINN	
MA0140.1_Tal1_Gata1	2.1392e-05	--CCTCTGNCCCC----- NTTATCTNNNNNNNNCNN	
MA0163.1_PLAG1	1.9594e-04	---CCTCTGNCCCC CCCCCTTNGGCCCC	
MA0056.1_MZF1_1-4	4.6592e-04	CCTCTGNCCCC- -----TCCCN	
MA0016.1_usp	5.8155e-04	CCTCTGNCCCC -NNGTGACCCC	
MA0065.2_PPARG_RXRA	6.3695e-04	---CCTCTGNCCCC- TGMCCCTTGNCYNN	
MA0207.1_achi	6.7854e-04	CCTCTGNCCCC ---CTGTCA--	
MA0227.1_hth	1.3610e-03	CCTCTGNCCCC ---CTGTCA--	
MA0115.1_NR1H2_RXRA	2.0527e-03	-----CCTCTGNCCCC- STTGACCTTTGACCTTT	
MA0299.1_GAL4	2.3948e-03	--CCTCTGNCCCC-- GANNRNTNTNNCCG	

M13



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.2_PPARG_RXRA	3.7393e-07	-----GCAGAGGGMA NNRGGNCAAAGGKCA	
MA0139.1_CTCF	2.9811e-05	---TKCCCTCTGC----- NNSYGCCMCCTRSTGGNNR	
MA0155.1_INSM1	1.1668e-04	TKCCCTCTGC-- YGCCCCCTGRCA	
MA0120.1_id1	3.3001e-04	-GCAGAGGGMA- CGNNANNRRMNA	
MA0114.1_HNF4A	1.3350e-03	---GCAGAGGGMA RGNNCAAAGKNCA	
MA0159.1_RXR_RAR_DR5	2.1254e-03	TKCCCTCTGC----- TGACCTNYNNNTGAMCY	
MA0081.1_SPIB	2.5188e-03	TKCCCTCTGC -TTCKST--	
MA0364.1_REI1	3.4713e-03	GCAGAGGGMA NCAGGG---	
MA0366.1_RGM1	4.0551e-03	GCAGAGGGMA ----AGGGG-	
MA0017.1_NR2F1	4.3014e-03	TKCCCTCTGC---- TGAMCTTTGNMCNN	

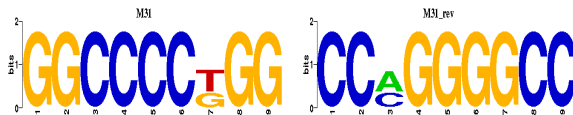
M25





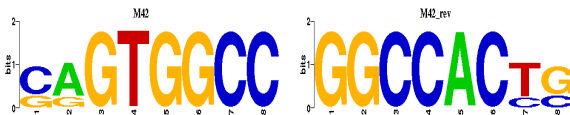
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	1.1428e-05	GGCAGGGGCCAGGG ----GGGGGNGGGG	
MA0155.1_INSM1	2.3947e-05	CCCTGGCCCCTGCC- ---YGCCCCCTGRCA	
MA0364.1_REI1	2.4115e-05	GGCAGGGGCCAGGG -NCAGGGG-----	
MA0449.1_h	6.0850e-05	CCCTGGCCCCTGCC ----GNCACGTGNC	
MA0366.1_RGM1	7.1657e-05	CCCTGGCCCCTGCC -----CCCCT---	
MA0342.1_MSN4	1.0343e-04	CCCTGGCCCCTGCC -----CCCCT---	
MA0344.1_NHP10	2.1918e-04	-CCCTGGCCCCTGCC TCCCCGN-----	
MA0341.1_MSN2	2.2787e-04	GGCAGGGGCCAGGG ---AGGGG-----	
MA0323.1_IXR1	3.6193e-04	CCCTGGCCCCTGCC- CMCCGCTTCCGGYTT	
MA0213.1_brk	3.9532e-04	GGCAGGGGCCAGGG ----RCGCCRS---	

M31



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0364.1_REI1	3.8066e-06	CCMGGGGCC NCAGGGG--	
MA0366.1_RGM1	3.0607e-05	GGCCCCCKGG --CCCCT--	
MA0342.1_MSN4	4.9357e-05	GGCCCCCKGG --CCCCT--	
MA0155.1_INSM1	8.7897e-05	-GGCCCCCKGG-- YGCCCCCTGRCA	
MA0341.1_MSN2	1.2015e-04	CCMGGGGCC --AGGGG--	
MA0003.1_TFAP2A	1.4243e-04	-CCMGGGGCC SCNNNNGGC-	
MA0139.1_CTCF	1.8021e-04	----GGCCCCCKGG----- NNSYGCCMCTRSTGGNNR	
MA0344.1_NHP10	1.9893e-04	GGCCCCCKGG -TCCCCGGN	
MA0358.1_PUT3	1.9997e-04	--CCMGGGGCC NNCCCCGGG---	
MA0154.1_EBF1	3.5467e-04	GGCCCCCKGG-- -TCCCTNGGGN	

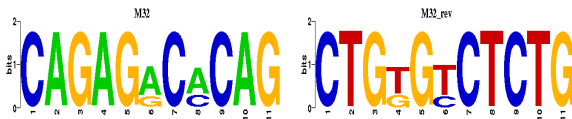
M42















	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	4.5541e-05	TGTGTGTGTGTGTGTGTGTGTG NGKKKGKGGGTGKTTTGGGG--	
MA0359.1_RAP1	6.9966e-05	TGTGTGTGTGTGTGTGTGTGTG TGTATGGGTG-----	
MA0068.1_Pax4	3.0926e-02	-----CACACACACACACACACACA AWAWWWNNNNNNNNNNNNMNNNNYMC--	
MA0162.1_Egr1	4.0856e-02	CACACACACACACACACACACA -MCGCCACGCN-----	
MA0327.1_MATA1	4.2268e-02	--TGTGTGTGTGTGTGTGTGTGTG ATTGTGY-----	
MA0041.1_Foxd3	6.6057e-02	CACACACACACACACACACACA -AAANAAACAWTN-----	
MA0332.1_MET28	7.9802e-02	-CACACACACACACACACACACA CCACAG-----	
MA0045.1_HMG-I_Y	1.0146e-01	TGTGTGTGTGTGTGTGTGTGTG -RTTTYKYNNTTNTNN-----	
MA0288.1_CUP9	1.0770e-01	--TGTGTGTGTGTGTGTGTGTGTG WWTGTGTCA-----	
MA0270.1_AFT2	1.1274e-01	TGTGTGTGTGTGTGTGTGTGTG NGGTGTN-----	

M32



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	2.3997e-04	CAGAGACACAG -----CCACAG	
MA0288.1_CUP9	7.0925e-04	-CTGTGTCTCTG WWTGTGTCA---	
MA0150.1_NFE2L2	1.8751e-03	--CTGTGTCTCTG TGCTNWTGTCAY--	
MA0327.1_MATA1	3.9107e-03	-CTGTGTCTCTG ATTGTGY-----	
MA0442.1_SOX10	4.0024e-03	CTGTGTCTCTG CWTGTG-----	
MA0335.1_MET4	8.3706e-03	CAGAGACACAG-- -----CCACAGNT	
MA0204.1_Six4	1.1257e-02	CTGTGTCTCTG --GTNTCA---	
MA0287.1_CUP2	1.1816e-02	CTGTGTCTCTG CWTTTYTGCTG	
MA0271.1_ARG80	1.3992e-02	CTGTGTCTCTG --GNGTCW---	
MA0334.1_MET32	1.6154e-02	CTGTGTCTCTG -TGTGGCN---	

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