

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

Input file: 71 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 :          -----AAAAAAAA
M1 :          --TTTTAAAA-----
M2 :          --CACACACA-----
M3 :          -----GGAGGGAG--
M4 :          ----CCCAGCCC---
M5 :          --CAGGCAGG-----
M6 :          ---GAGGAGGG----
M7 :          -----AGAAAGAA
M8 :          --TGGGGAGG-----
M9 :          ----GGGAGAGG---
M10 :         ---AGGCAGAG----
M11 :         -----AGGAAGGA
M12 :         ---GGGAAGGG----
M13 :         -CCCAGCAG-----
M14 :         -CAGCCCAG-----
M15 :         -----AGAGGAAG
M16 :         -----CAGCCTCC-
M17 :         ----CCAGGCTG--
M18 :         -----CAGAGCTG-
M19 :         CACCCCCA-----
M20 :         ---CTGCAGAG----
M21 :         ----GCAGCAGC--
M22 :         -CTTCCCAG-----

```

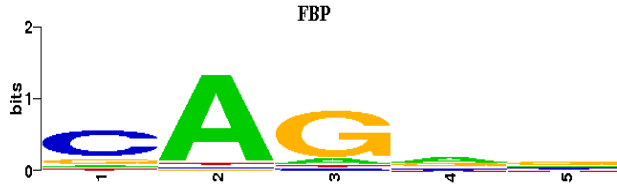
## Stamp Results

10/01/13

M23: -CCAGCCAG-----  
M24: -----TTAAAAAA--  
M25: -----CAGAGAAG-  
M26: -----CAGGCCTG-  
M27: -GGAAGCAG-----  
M28: CCACCCCA-----  
M29: --AGAGCAGA-----  
M30: ---GGACAGAG-----  
M31: -----CAGGGCCT-  
M32: -----AGGGAAAG  
M33: -----GAGGGGGA-  
M34: -----CAGAAGGA-  
M35: ----AACAAAAC---  
M36: -----AGGGGTGG  
M37: -TTCCCCAG-----  
M38: -AGGAACAG-----  
M39: --AGCACAGA-----  
M40: ----CTCAGCTC---  
M41: -AGGCTCAG-----  
M42: -----GAGAAAAA-  
M43: --AAGCCAGA-----  
M44: ---TGGCAGGA----  
M45: -----AGAGGAGC  
M46: -GAGCTCAG-----  
M47: -----GAGAAGCA-  
M48: ---CCCCAGAA----  
M49: ----AGAGAGCC--  
M50: -----CAGGGATG-  
M51: ----CCCAGCTT---  
M52: ----ATTAAAAA---  
M53: --AGGTCAGG-----  
M54: AAACAACA-----  
M55: -----CAGACACT-  
M56: -----CAGTCCCT-  
M57: ---CTTCATTT----  
M58: ----TCAGCCCT--  
M59: ----TCCAGTTC---  
M60: ---AGCCATGG----  
M61: --TCAAAAGA-----  
M62: -----AAAGAACT--  
M63: -----ACAAAGCC--  
M64: -----CTAGANAG--  
M65: --TGGGAAGT-----

M66: ----TGCAAAGG----  
 M67: ----AACAGGGA----  
 M68: ----GCAAAGCA--  
 M69: ----GCAGGTGA--  
 M70: -----AGGGCTTC

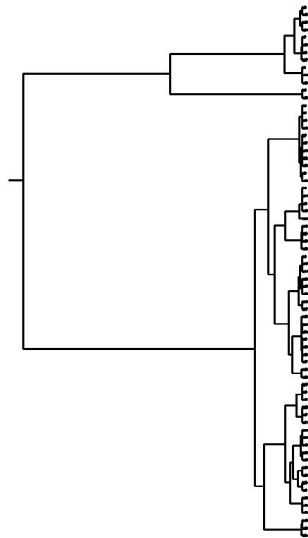
**Familial Profile:**  
[\(click for matrix\)](#)



## Motif Tree

Tree (drawn by **PhyIip**)

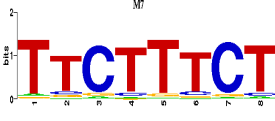

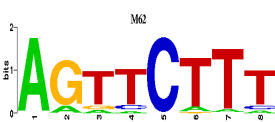

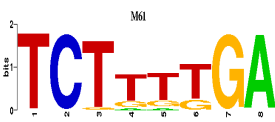

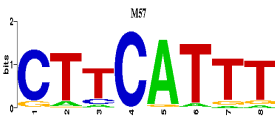

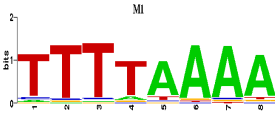

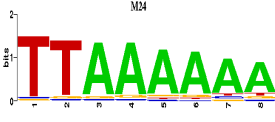
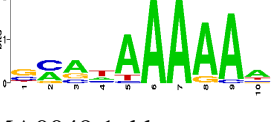
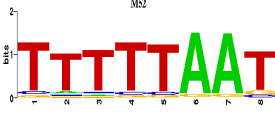

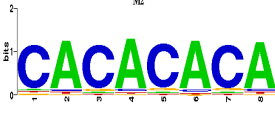

[Click here for Newick-format tree \(viewable with MEGA\)](#)

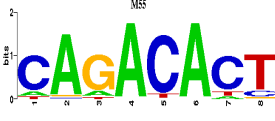

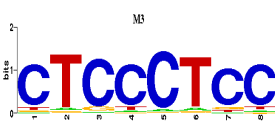

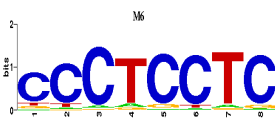
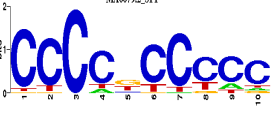
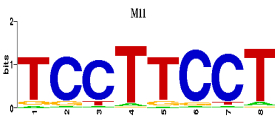
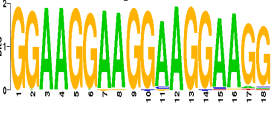
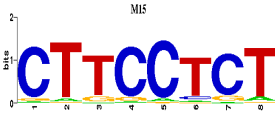

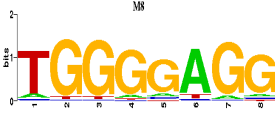
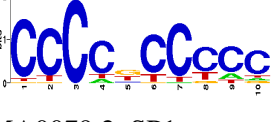
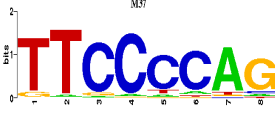

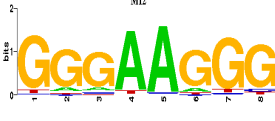
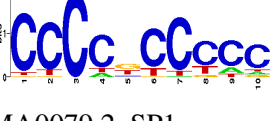


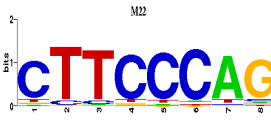
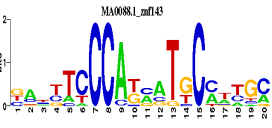
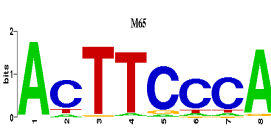

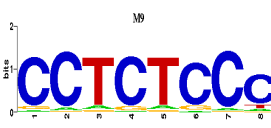
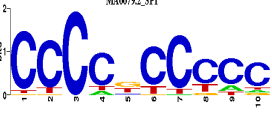
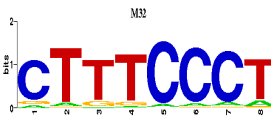
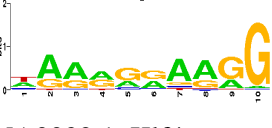
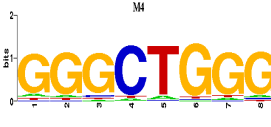
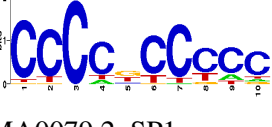
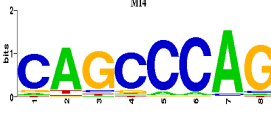

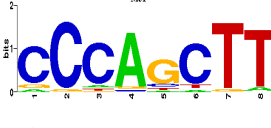

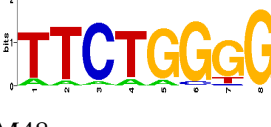

Input Motif

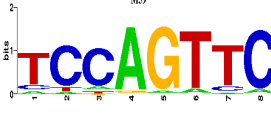
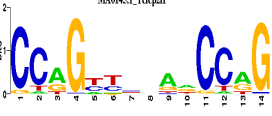
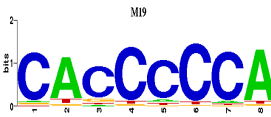
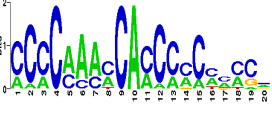
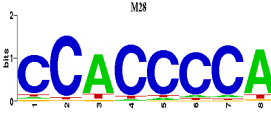
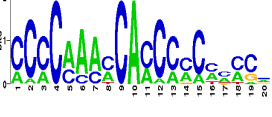
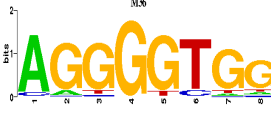

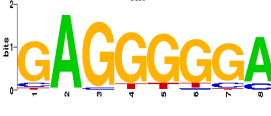
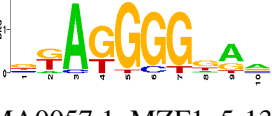
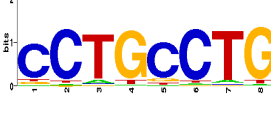



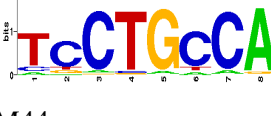

Best match in JASPAR

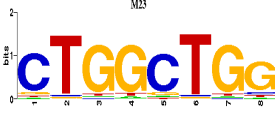

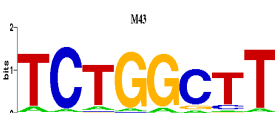


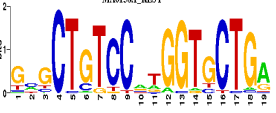
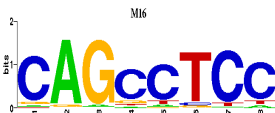

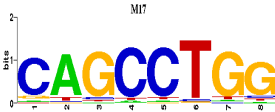
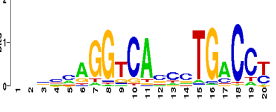
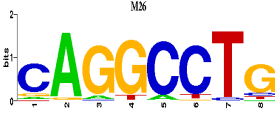
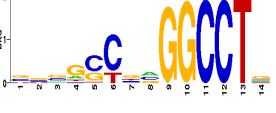
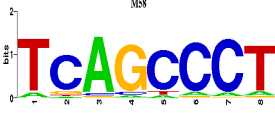

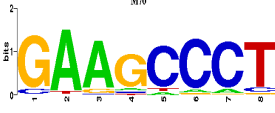

Input Motif	Best match in JASPAR
<p>M0</p>	<p>MA0277.1_AZF1</p> <p>MA0277.1_AZF1 (E val: 6.4200e-08)</p>
<p>M42</p>	<p>MA0371.1_ROX1</p> <p>MA0371.1_ROX1 (E val: 1.5302e-06)</p>
<p>M35</p>	<p>MA0137.1_STAT1</p> <p>MA0137.1_STAT1 (E val: 2.7116e-05)</p>
<p>M54</p>	<p>MA0084.1_SRY</p> <p>MA0084.1_SRY (E val: 2.9878e-05)</p>

 <p><b>M7</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 8.1623e-08)</p>
 <p><b>M62</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 1.3376e-05)</p>
 <p><b>M61</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 1.3010e-05)</p>
 <p><b>M57</b></p>	 <p><b>MA0388.1_SPT23</b> (E val: 2.2389e-06)</p>
 <p><b>M1</b></p>	 <p><b>MA0151.1_ARID3A</b> (E val: 7.0334e-05)</p>
 <p><b>M24</b></p>	 <p><b>MA0049.1_hb</b> (E val: 2.9460e-05)</p>
 <p><b>M52</b></p>	 <p><b>MA0151.1_ARID3A</b> (E val: 1.8275e-08)</p>
 <p><b>M2</b></p>	 <p><b>MA0009.1_T</b> (E val: 1.0462e-03)</p>

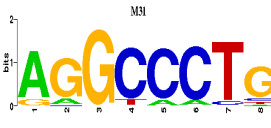

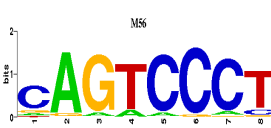
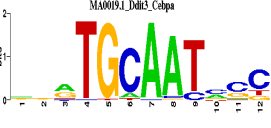
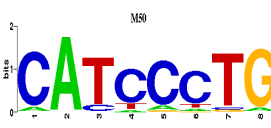

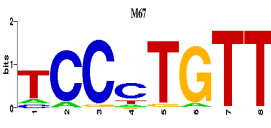

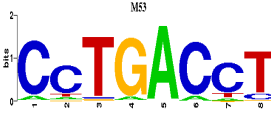
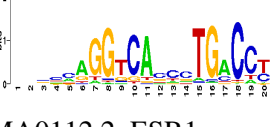
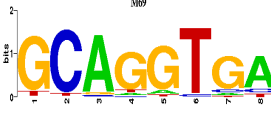

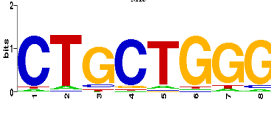


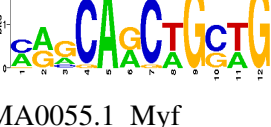
 <p><b>M55</b></p>	 <p><b>MA0271.1_ARG80</b> (E val: 2.4253e-04)</p>
 <p><b>M3</b></p>	 <p><b>MA0410.1_UGA3</b> (E val: 3.1724e-05)</p>
 <p><b>M6</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 2.1439e-06)</p>
 <p><b>M11</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 1.0801e-10)</p>
 <p><b>M15</b></p>	 <p><b>MA0081.1_SPIB</b> (E val: 9.4551e-10)</p>
 <p><b>M8</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 1.5059e-06)</p>
 <p><b>M37</b></p>	 <p><b>MA0344.1_NHP10</b> (E val: 1.5326e-05)</p>
 <p><b>M12</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 2.7847e-06)</p>


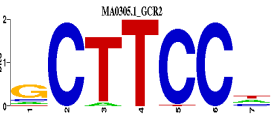
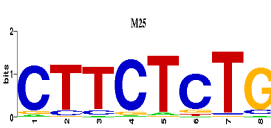

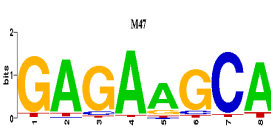
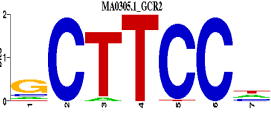
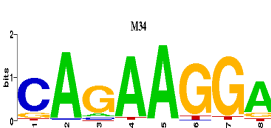
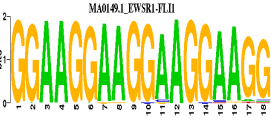
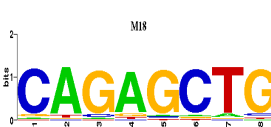
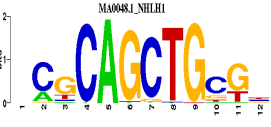
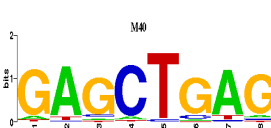
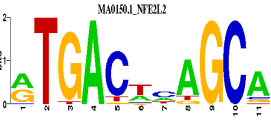

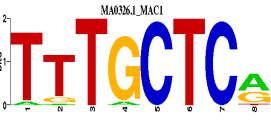


 <p><b>M22</b></p>	 <p><b>MA0088.1_znf143</b> (E val: 2.8214e-05)</p>
 <p><b>M65</b></p>	 <p><b>MA0080.2_SPI1</b> (E val: 1.9746e-07)</p>
 <p><b>M9</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 1.3427e-05)</p>
 <p><b>M32</b></p>	 <p><b>MA0039.1_Klf4</b> (E val: 1.1600e-04)</p>
 <p><b>M4</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 1.6997e-06)</p>
 <p><b>M14</b></p>	 <p><b>MA0320.1_IME1</b> (E val: 3.7050e-04)</p>
 <p><b>M51</b></p>	 <p><b>MA0323.1_IXR1</b> (E val: 1.4005e-04)</p>
 <p><b>M48</b></p>	 <p><b>MA0413.1_USV1</b> (E val: 4.1355e-06)</p>

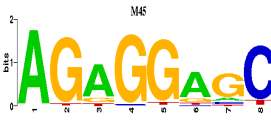
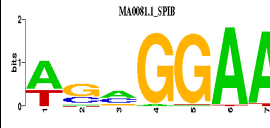
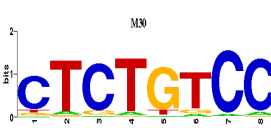
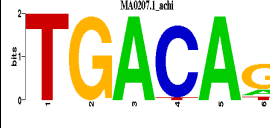
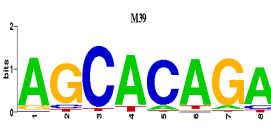

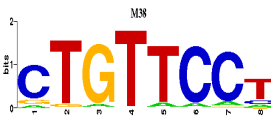
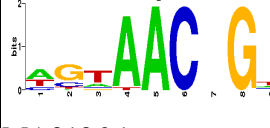
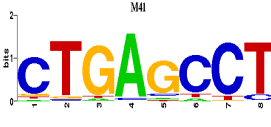
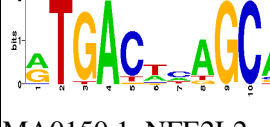
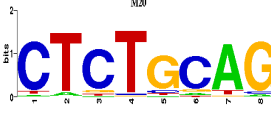

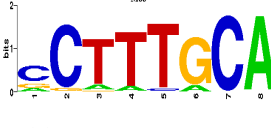
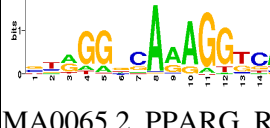


 <p><b>M59</b></p>	 <p><b>MA0145.1_Tcfp211</b> (E val: 6.0791e-06)</p>
 <p><b>M19</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 2.5755e-06)</p>
 <p><b>M28</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 5.3157e-05)</p>
 <p><b>M36</b></p>	 <p><b>MA0342.1_MSN4</b> (E val: 2.2151e-06)</p>
 <p><b>M33</b></p>	 <p><b>MA0057.1_MZF1_5-13</b> (E val: 3.0924e-09)</p>
 <p><b>M5</b></p>	 <p><b>MA0340.1_MOT3</b> (E val: 2.7119e-05)</p>
 <p><b>M10</b></p>	 <p><b>MA0283.1_CHA4</b> (E val: 3.6901e-05)</p>
 <p><b>M44</b></p>	 <p><b>MA0410.1_UGA3</b> (E val: 3.3549e-05)</p>

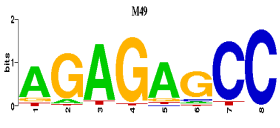
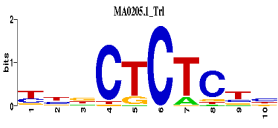
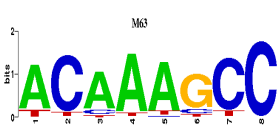
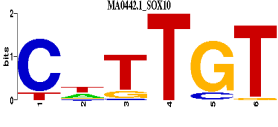
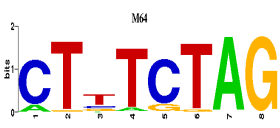

<p>M23</p>  <p>M23</p>	<p>MA0267.1_ACE2</p>  <p>MA0267.1_ACE2 (E val: 1.7466e-04)</p>
<p>M43</p>  <p>M43</p>	<p>MA0092.1_Hand1_T</p>  <p>MA0092.1_Hand1_T (E val: 1.4209e-05)</p>
<p>M60</p>  <p>M60</p>	<p>MA0138.1_REST</p>  <p>MA0138.1_REST (E val: 4.8739e-04)</p>
<p>M16</p>  <p>M16</p>	<p>MA0412.1_UME6</p>  <p>MA0412.1_UME6 (E val: 4.0527e-04)</p>
<p>M17</p>  <p>M17</p>	<p>MA0112.2_ESR1</p>  <p>MA0112.2_ESR1 (E val: 6.5558e-04)</p>
<p>M26</p>  <p>M26</p>	<p>MA0146.1_Zfx</p>  <p>MA0146.1_Zfx (E val: 5.4828e-04)</p>
<p>M58</p>  <p>M58</p>	<p>MA0403.1_TBF1</p>  <p>MA0403.1_TBF1 (E val: 8.9842e-05)</p>
<p>M70</p>  <p>M70</p>	<p>MA0260.1_che-1</p>  <p>MA0260.1_che-1 (E val: 4.8726e-07)</p>



 <p><b>M31</b></p>	 <p><b>MA0364.1_REI1</b> (E val: 1.9333e-04)</p>
 <p><b>M56</b></p>	 <p><b>MA0019.1_Ddit3_Cebpa</b> (E val: 1.4190e-03)</p>
 <p><b>M50</b></p>	 <p><b>MA0364.1_REI1</b> (E val: 1.9305e-04)</p>
 <p><b>M67</b></p>	 <p><b>MA0364.1_REI1</b> (E val: 1.9358e-04)</p>
 <p><b>M53</b></p>	 <p><b>MA0112.2_ESR1</b> (E val: 1.3664e-09)</p>
 <p><b>M69</b></p>	 <p><b>MA0086.1_sna</b> (E val: 4.1135e-09)</p>
 <p><b>M13</b></p>	 <p><b>MA0402.1_SWI5</b> (E val: 1.8271e-06)</p>
 <p><b>M21</b></p>	 <p><b>MA0055.1_Myf</b> (E val: 2.6234e-07)</p>

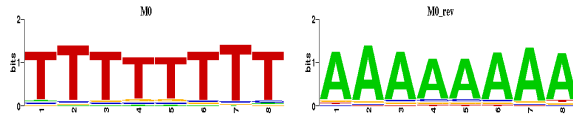
 <p><b>M27</b></p>	 <p><b>MA0305.1_GCR2</b> (E val: 2.0562e-07)</p>
 <p><b>M25</b></p>	 <p><b>MA0035.2_Gata1</b> (E val: 3.6360e-04)</p>
 <p><b>M47</b></p>	 <p><b>MA0305.1_GCR2</b> (E val: 1.9828e-04)</p>
 <p><b>M34</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 2.7059e-04)</p>
 <p><b>M18</b></p>	 <p><b>MA0048.1_NHLH1</b> (E val: 2.0035e-03)</p>
 <p><b>M40</b></p>	 <p><b>MA0150.1_NFE2L2</b> (E val: 1.0617e-04)</p>
 <p><b>M46</b></p>	 <p><b>MA0326.1_MAC1</b> (E val: 1.9038e-03)</p>
 <p><b>M29</b></p>	 <p><b>MA0326.1_MAC1</b> (E val: 3.1157e-05)</p>

 <p><b>M45</b></p>	 <p><b>MA0081.1_SPIB</b> (E val: 9.2233e-06)</p>
 <p><b>M30</b></p>	 <p><b>MA0207.1_achi</b> (E val: 2.8180e-05)</p>
 <p><b>M39</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 1.9428e-05)</p>
 <p><b>M38</b></p>	 <p><b>MA0126.1_ovo</b> (E val: 4.8176e-06)</p>
 <p><b>M41</b></p>	 <p><b>MA0150.1_NFE2L2</b> (E val: 4.9391e-04)</p>
 <p><b>M20</b></p>	 <p><b>MA0150.1_NFE2L2</b> (E val: 4.9716e-04)</p>
 <p><b>M66</b></p>	 <p><b>MA0065.2_PPARG_RXRA</b> (E val: 2.0970e-06)</p>
 <p><b>M68</b></p>	 <p><b>MA0053.1_MNB1A</b> (E val: 3.2108e-06)</p>

 <p><b>M49</b></p>	 <p><b>MA0205.1_Tr1</b> (E val: 3.5326e-03)</p>
 <p><b>M63</b></p>	 <p><b>MA0442.1_SOX10</b> (E val: 9.3353e-08)</p>
 <p><b>M64</b></p>	 <p><b>MA0266.1_ABF2</b> (E val: 1.8431e-04)</p>


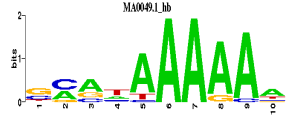
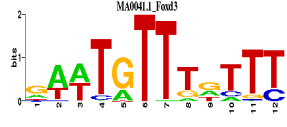
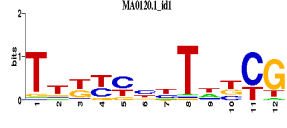

### Motif Similarity Matches

**M0**

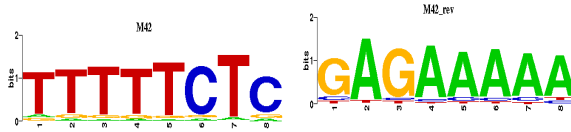


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0277.1_AZF1	6.4200e-08	-TTTTTTTT TTTCTTTTT	
MA0049.1_hb	3.0959e-06	-TTTTTTTT- NTTTTTNYKS	
<b>MA0041.1_Foxd3</b>	7.9439e-05	AAAAAAA---- AAANAAACAWTN	
MA0120.1_id1	4.3480e-04	----AAAAAAA CGNANNRRMNA	
MA0010.1_br_Z1	1.1818e-03	-TTTTTTTT----- NWYTTGTYTATNAN	

**M42**

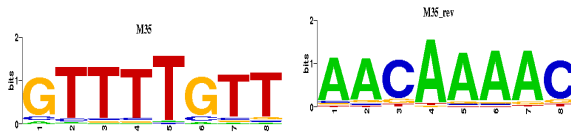


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0371.1_ROX1	1.5302e-06	GAGAAAA---- GAGAACAATNGR	
MA0390.1_STB3	8.7365e-06	-----GAGAAAA----- NNNNANTGAAAAAWTNNNNNN	
MA0294.1_EDS1	1.0213e-05	-TTTTTCTC NTTNTTCN	
MA0326.1_MAC1	1.3360e-05	-GAGAAAA YGAGCAA-	
MA0022.1_dl_1	1.5676e-05	----TTTTTCTC SGGGTTTTTCCN	

**M35**



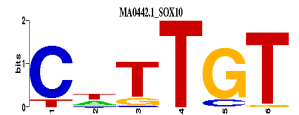
*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0137.1_STAT1	2.7116e-05	----AACAAAAC-- RGAAANNGAAACTN	

MA0442.1\_SOX10 1.4325e-04

AACAAAAC  
-ACAAWG-



MA0087.1\_Sox5 1.7552e-04

GTTTTGTT-  
--ATTGTTN



MA0010.1\_br\_Z1 2.7696e-04

-----AACAAAAC  
NTNATARACAARWN

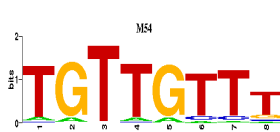


MA0013.1\_br\_Z4 4.0427e-04

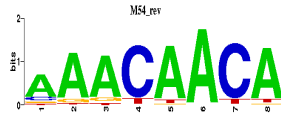
GTTTTGTT-----  
--WTWNTTTACTA



**M54**



*forward*



*reverse compliment*

*Name* *E value*

*Alignment*

*Motif*

MA0084.1\_SRY 2.9878e-05

TGTTGTTT--  
-ATTGTTWNN



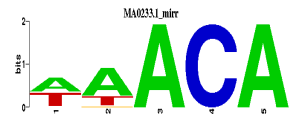
MA0040.1\_Foxq1 5.2836e-05

---AAACAACA  
WATAACAATN



MA0233.1\_mirr 7.6332e-05

TGTTGTTT  
---TGTTW



MA0030.1\_FOXP2 1.1147e-04

TGTTGTTT-----  
-NNTGTTTACSNNTN

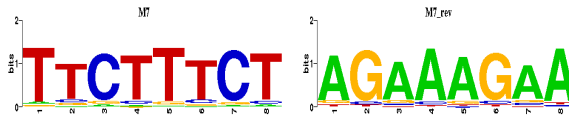


MA0013.1\_br\_Z4 1.1747e-04

TGTTGTTT-----  
-WTWNTTTACTA



**M7**



*forward*

*reverse compliment*

*Name*                      *E value*                      *Alignment*                      *Motif*

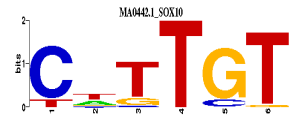
MA0277.1\_AZF1                      8.1623e-08

-TTCTTTCT  
TTCTTTTT



MA0442.1\_SOX10                      3.7760e-04

TTCTTTCT  
--CWTGT



MA0080.2\_SPI1                      5.6956e-04

AGAAAGAA  
AGGAAGT-



MA0149.1\_EWSR1-FLI1                      1.0460e-03

-----TTCTTTCT  
CCTTCCTTCCTTCCTTC

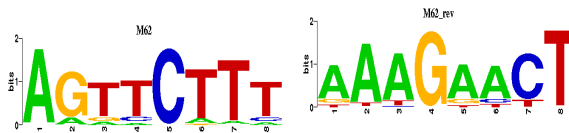


MA0053.1\_MNB1A                      1.8396e-03

TTCTTTCT  
-NCTTT--



**M62**



*forward*

*reverse compliment*

*Name*                      *E value*                      *Alignment*                      *Motif*

MA0277.1\_AZF1                      1.3376e-05

--AAAGAACT  
AAAAAGAAA-



MA0407.1\_THI2                      2.1928e-04

AGTTCCTT-----  
-GTTCTTASRGTTKCC

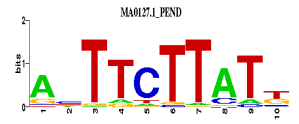


Stamp Results

10/01/13

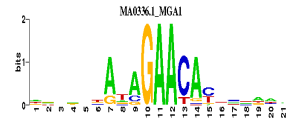
MA0127.1\_PEND 3.3038e-04

--AAAGAACT  
MATAAGAANT



MA0336.1\_MGA1 1.3012e-03

-----AAAGAACT-----  
NNNNNNANAGAACYNNNNNN

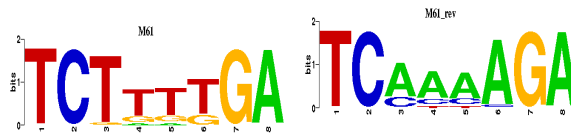


MA0053.1\_MNB1A 1.9079e-03

AGTTCITT  
---NCTTT



M61



*forward*

*reverse complement*

*Name*

*E value*

*Alignment*

*Motif*

MA0277.1\_AZF1

1.3010e-05

--TCTTTTGA  
TTTCTTTT--



MA0370.1\_RME1

6.8043e-05

-TCTTTTGA-  
TNCCTTTNNA



MA0222.1\_exd

8.8076e-04

TCTTTTGA--  
--NTTTGACA



MA0237.1\_pan

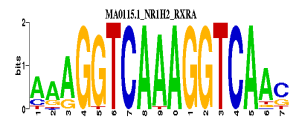
1.5411e-03

--TCAAAGA  
NATCAAN--

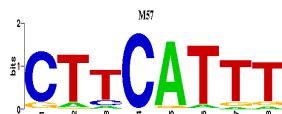


MA0115.1\_NR1H2\_RXRA 1.8839e-03

-----TCAAAGA-----  
AAAGGTCAAAGGTCAAS



M57





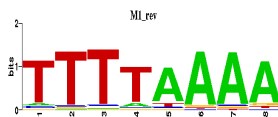
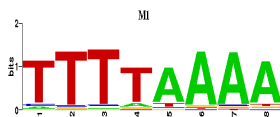
*forward*



*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0388.1_SPT23	2.2389e-06	CTTCATTT- -TTSATTTY	
MA0137.1_STAT1	4.1299e-06	---CTTCATTT--- NAGTTTCNNTTTCY	
MA0235.1_onecut	3.1320e-05	AAATGAAG NAATCAA-	
MA0277.1_AZF1	1.6642e-04	CTTCATTT- TTTCTTTTT	
MA0186.1_Dfd	1.9916e-04	CTTCATTT- --TCATTAA	

**M1**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0151.1_ARID3A	7.0334e-05	TTTTAAAA -TTTAAT-	
MA0218.1_ct	1.3021e-03	TTTTAAAA GTTYAA--	

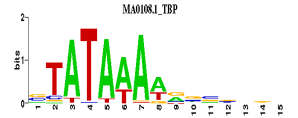
MA0173.1\_CG11617 1.5552e-03

-TTTTAAAA  
ATGTWAA--



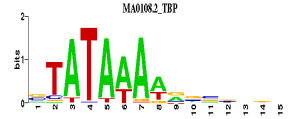
MA0108.1\_TBP 1.5780e-03

-----TTTTAAAA  
NNNNNNYWTTTATAN

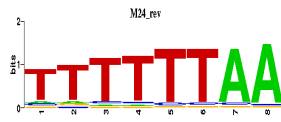
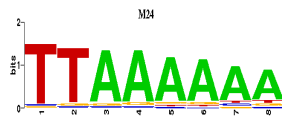


MA0108.2\_TBP 1.5827e-03

-----TTTTAAAA  
NNNNNNYWTTTATAN



**M24**



*forward*

*reverse compliment*

*Name*

*E value*

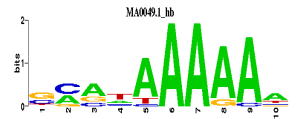
*Alignment*

*Motif*

MA0049.1\_hb

2.9460e-05

TTTTTTAA--  
NTTTTTNYKS



MA0151.1\_ARID3A

6.1153e-05

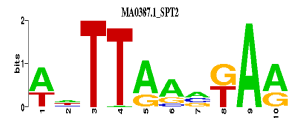
TTTTTTAA-  
---TTTAAT



MA0387.1\_SPT2

7.6603e-05

TTTTTTAA--  
TTMNTTAANT



MA0216.1\_cad

8.8252e-05

TTAAAAAA  
-YAATAAA

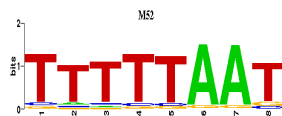


MA0174.1\_CG42234 8.9796e-05

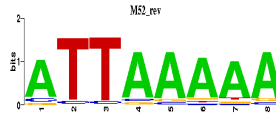
TTAAAAAA  
-TMATWAA



**M52**



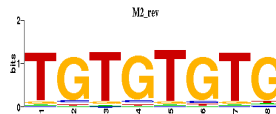
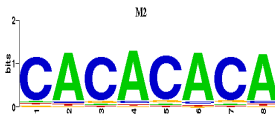
*forward*



*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0151.1_ARID3A	1.8275e-08	ATTA AAAA ATTAAA--	
MA0049.1_hb	2.6865e-05	--ATTA AAAA-- SMRNAAAAAN	
MA0244.1_slbo	3.2569e-05	ATTA AAAA ATTRCNMA	
MA0279.1_CAD1	6.7813e-05	--TTTTTAA T GCTTACTAAT	
MA0226.1_hbn	1.7752e-04	--ATTA AAAA YAATTAA---	

**M2**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0009.1_T	1.0462e-03	--CACACACA-- TTCACACCTAG	
MA0359.1_RAP1	1.4347e-03	--CACACACA CACCCATACA	

MA0327.1\_MATA1 1.8403e-03

--TGTGTGTG  
ATTGTGY---



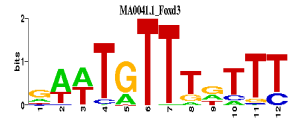
MA0288.1\_CUP9 2.5451e-03

TGTGTGTG-  
WWTGTGTCA

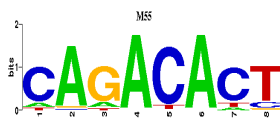


MA0041.1\_Foxd3 2.5784e-03

-CACACACA---  
AAANAAACAWTN



**M55**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0271.1\_ARG80 2.4253e-04

AGTGTCTG  
-GNGTCW-



MA0204.1\_Six4 9.0150e-04

AGTGTCTG  
-GTNTCA-



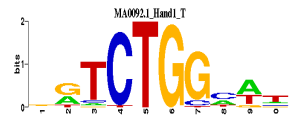
MA0288.1\_CUP9 2.2510e-03

--AGTGTCTG  
WWTGTGTCA-



MA0092.1\_Hand1\_T 6.2532e-03

----CAGACACT  
NWNCCAGAYN--

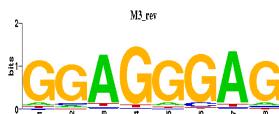
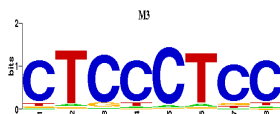



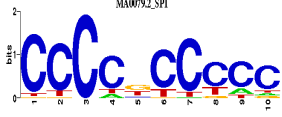
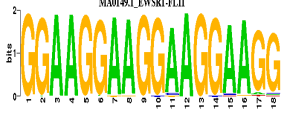
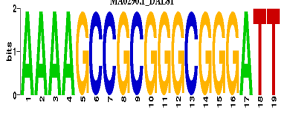

MA0207.1\_achi 6.6183e-03

AGTGTCTG  
-CTGTCA-

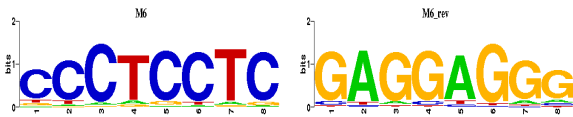


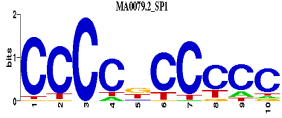

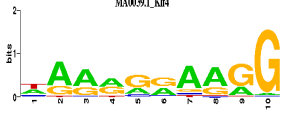

**M3**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0410.1_UGA3	3.1724e-05	CTCCCTCC- -TCCCGCCN	
MA0079.2_SP1	3.9697e-04	CTCCCTCC--- -CCCNCCCC	
MA0149.1_EWSR1-FLI1	1.4187e-03	----GGAGGGAG----- GGAAGGAAGGAAGGAAGG	
MA0290.1_DAL81	1.5268e-03	-CTCCCTCC----- AATCCCGCCCGCGGCTTTT	
MA0080.2_SPI1	1.6825e-03	-CTCCCTCC ACTTCCT--	

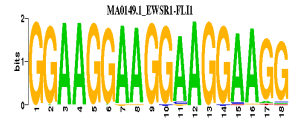
**M6**



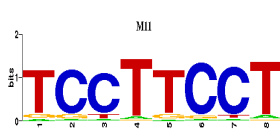
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
<b>MA0079.2_SP1</b>	2.1439e-06	-GAGGAGGG- GGGGNGGGG	
MA0081.1_SPIB	8.1542e-04	CCCTCCTC- --TTCKST	
MA0039.1_Klf4	8.4961e-04	CCCTCCTC-- CCTTYYTNTN	
MA0080.2_SPI1	1.3474e-03	CCCTCCTC ACTTCCT-	

MA0149.1\_EWSR1-FLI1 1.4357e-03

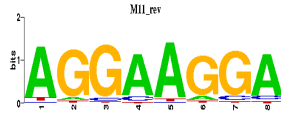
-----CCCTCCTC--  
CCTTCCTTCCTTCCTTC



**M11**



*forward*



*reverse compliment*

*Name*

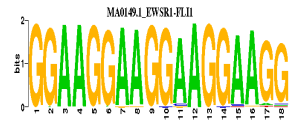
*E value*

*Alignment*

*Motif*

**MA0149.1\_EWSR1-FLI1** 1.0801e-10

---TCCTTCCT-----  
CCTTCCTTCCTTCCTTC



MA0080.2\_SPI1

2.1576e-07

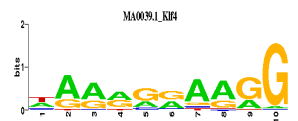
TCCTTCCT  
-ACTTCCT



MA0039.1\_Klf4

7.4657e-06

---AGGAAGGA  
NAARRRAAGG-



MA0156.1\_FEV

3.8486e-05

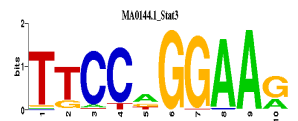
-AGGAAGGA  
CAGGAART-



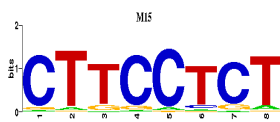
MA0144.1\_Stat3

4.0221e-05

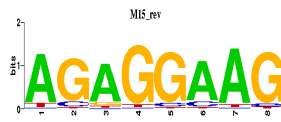
TCCTTCCT----  
--CTTCNGGAA



**M15**



*forward*



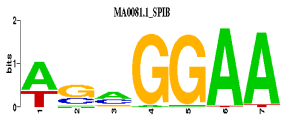

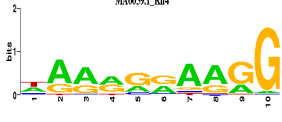

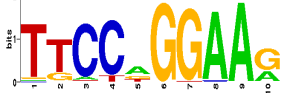
*reverse compliment*

*Name*

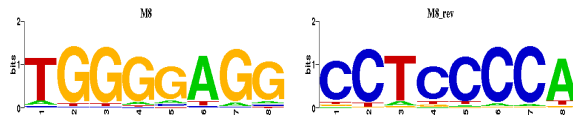
*E value*

*Alignment*

*Motif*

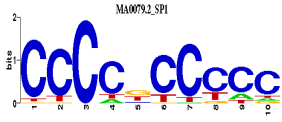

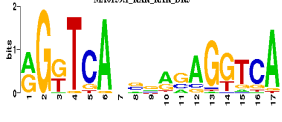


MA0081.1_SPIB	9.4551e-10	CTTCCTCT -TTCKST	
MA0080.2_SPI1	2.2296e-07	-CTTCCTCT ACTTCCT--	
MA0039.1_Klf4	9.9474e-06	-CTTCCTCT- CCTTYYTTN	
MA0080.1_SPI1	4.2818e-05	CTTCCTCT STTCN--	
MA0144.1_Stat3	5.0238e-05	CTTCCTCT-- CTTCNGGAA	

M8

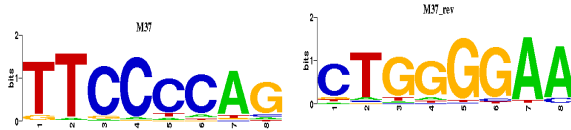


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SPI1	1.5059e-06	--CCTCCCCA CCCCNCCCC	
MA0056.1_MZF1_1-4	2.1989e-05	CCTCCCCA --TCCCN	
MA0159.1_RXR_RAR_DR5	1.8859e-04	---CCTCCCCA----- TGACCTNYNNNTGAMCY	
MA0268.1_ADR1	2.0552e-04	-TGGGGAGG KTGGGGN--	
MA0436.1_YPR022C	2.3041e-04	--TGGGGAGG NGTGGGG---	

**M37**

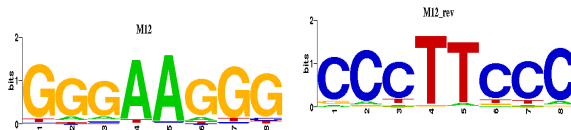


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	1.5326e-05	TTCCCCAG- -TCCCCGGN	
MA0056.1_MZF1_1-4	1.9291e-05	TTCCCCAG -TCCCN-	
MA0332.1_MET28	1.5278e-04	TTCCCCAG --CCACAG	
MA0105.1_NFKB1	1.6548e-04	CTGGGGAA----- --GGGAATCCCC	
MA0268.1_ADR1	2.2617e-04	CTGGGGAA KTGGGN-	

**M12**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	2.7847e-06	-CCCTTCCC- CCCCNCCCC	

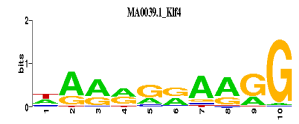


Stamp Results

10/01/13

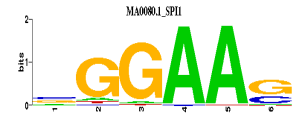
MA0039.1\_Klf4 2.1230e-05

CCCTTCCC---  
-CCTTYYYTTN



MA0080.1\_SPI1 5.4658e-05

GGGAAGGG  
NGGAAS--



MA0080.2\_SPI1 1.7377e-04

CCCTTCCC  
-ACTTCCT

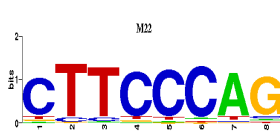


MA0305.1\_GCR2 1.7839e-04

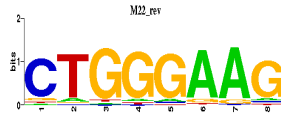
GGGAAGGG  
NGGAAGC-



M22



*forward*



*reverse compliment*

*Name*

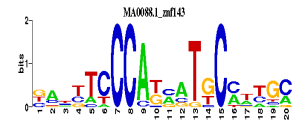
*E value*

*Alignment*

*Motif*

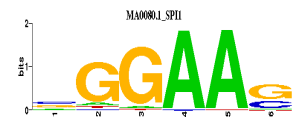
MA0088.1\_znf143 2.8214e-05

-----CTGGGAAG--  
KCNNKGMANNMTGGGANNNN



MA0080.1\_SPI1 4.5598e-05

CTTCCCAG  
STTCN--



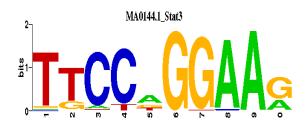
MA0282.1\_CEP3 5.2278e-05

CTTCCCAG  
NTTCGAR



MA0144.1\_Stat3 1.1628e-04

CTTCCCAG--  
CTTCNGGAA

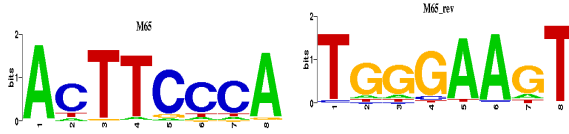


MA0080.2\_SPI1 1.7779e-04

-CTTCCCAG  
ACTTCCT--



**M65**

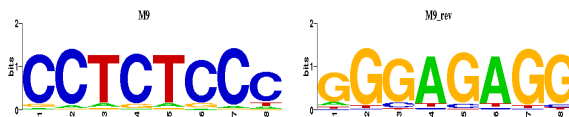


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0080.2_SPI1	1.9746e-07	ACTTCCCA ACTTCT-	
MA0088.1_znf143	4.2429e-07	-----TGGGAAGT- KCNNKGMANNMTGGGANNNN	
MA0076.1_ELK4	1.4853e-05	ACTTCCCA- ACTTCCGGT	
MA0156.1_FEV	2.2984e-05	ACTTCCCA AYTTCCTG	
MA0062.2_GABPA	4.3223e-05	TGGGAAGT--- CCGGAAGTGN	

**M9**



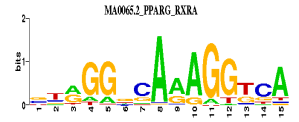
*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0079.2_SP1	1.3427e-05	GGGAGAGG-- GGGGNGGGG	
MA0159.1_RXR_RAR_DR5	8.7441e-05	---CCTCTCCC----- TGACCTNYNNNTGAMCY	

MA0065.2\_PPARG\_RXRA 1.2229e-04

---CCTCTCCC---  
TGMCCTTTGNCYYNN



MA0062.1\_GABPA 4.8135e-04

CCTCTCCC---  
-SNCTTCCGGT

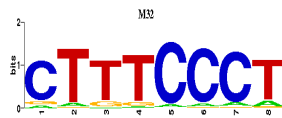


MA0323.1\_IXR1 5.1957e-04

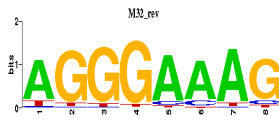
--CCTCTCCC-----  
CMCCGCTTCCGGYTT



**M32**



*forward*



*reverse complement*

*Name*

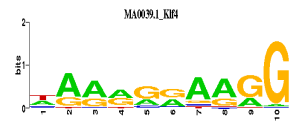
*E value*

*Alignment*

*Motif*

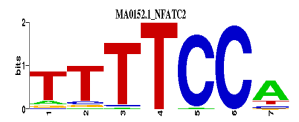
MA0039.1\_Klf4 1.1600e-04

CTTTCCT--  
CCTTYYTNN



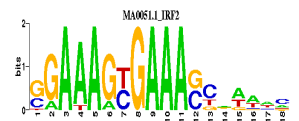
MA0152.1\_NFATC2 1.9403e-04

AGGGAAAG  
-TGGAAA



MA0051.1\_IRF2 2.2986e-04

----AGGGAAAG-----  
SGAAAGYGAAASYNWNN



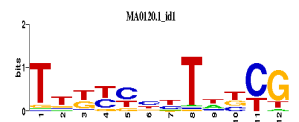
MA0438.1\_YRM1 7.0363e-04

CTTTCCT  
ATNTCCGN

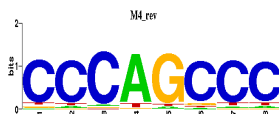
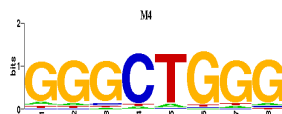


MA0120.1\_id1 7.2730e-04

----AGGGAAAG  
CGNNANNRRMNA-

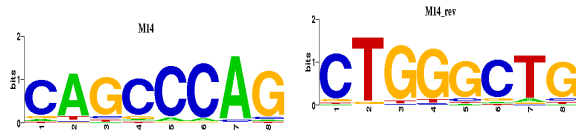


**M4**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	1.6997e-06	--GGGCTGGG GGGGGNGGGG	
MA0039.2_Klf4	5.0511e-05	-CCCAGCCC- GCCMCRCNN	
MA0079.1_SP1	5.9854e-05	-CCCAGCCC- ACCCNGCCNN	
MA0267.1_ACE2	1.8637e-04	GGGCTGGG -NGCTGGN	
MA0402.1_SWI5	5.4290e-04	-CCCAGCCC NACCAGCA-	

**M14**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0320.1_IME1	3.7050e-04	CAGCCCAG CCGCCGAG	
MA0368.1_RIM101	8.5632e-04	CTGGGCTG CTTGGCR-	
MA0162.1_Egr1	2.8556e-03	CAGCCCAG--- MCGCCCACGCN	

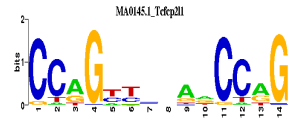
MA0083.1\_SRF 1.0375e-02

CAGCCCAG-----  
--GCCCATATATGG

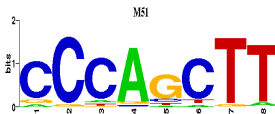


MA0145.1\_Tcfcp211 1.1782e-02

-----CTGGGCTG-  
CYGNTNNRNCYGG



**M51**



*forward*



*reverse compliment*

*Name E value Alignment Motif*

MA0323.1\_IXR1 1.4005e-04

-----AAGCTGGG  
AARCCGGAAGCGGKG



MA0164.1\_Nr2e3 1.7446e-04

AAGCTGGG  
AAGCTTN-



MA0267.1\_ACE2 1.7838e-04

AAGCTGGG  
-NGCTGGN



MA0048.1\_NHLH1 2.2529e-04

-CCCAGCTT---  
NCGCAGCTGCGN

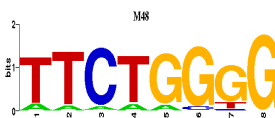


MA0402.1\_SWI5 4.0580e-04

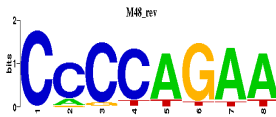
-CCCAGCTT  
NACCAGCA-



**M48**



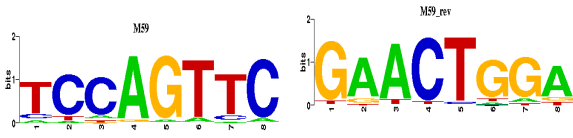
*forward*



*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0413.1_USV1	4.1355e-06	-----TTCTGGGG----- NNNNNNTTCAGGGGKANNNN	
MA0155.1_INSM1	4.1377e-05	-TTCTGGGG--- TGYCAGGGGGCR	
MA0332.1_MET28	2.4318e-04	TTCTGGGG --CTGTGG	
MA0436.1_YPR022C	2.6433e-04	TTCTGGGG -NGTGGGG	
MA0268.1_ADR1	2.9948e-04	TTCTGGGG- --KTGGGGN	

**M59**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
<b>MA0145.1_Tcfcp2l1</b>	6.0791e-06	-----GAACTGGA CYGGNTNNRNCYGG-	
MA0451.1_kni	3.3561e-04	----TCCAGTTC NTGCTCTANTTT	
MA0074.1_RXRA_VDR	6.7433e-04	-----TCCAGTTC- GGGTCANNRGTTC	
MA0335.1_MET4	1.8539e-03	-TCCAGTTC CCACAGNT-	

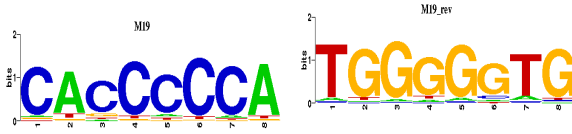
MA0188.1\_Dr

2.1754e-03

GAACTGGA  
TAATTGG-



**M19**

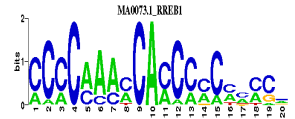


*forward*

*reverse compliment*

*Name E value Alignment Motif*

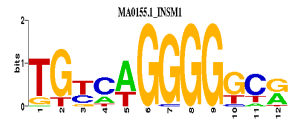
MA0073.1\_RREB1 2.5755e-06 -----TGGGGGTG-----  
NGKKKGKGGGTGKTTTGGGG



MA0450.1\_hkb 1.8383e-05 -CACCCCCA  
TCACGCCM



MA0155.1\_INSM1 2.0473e-04 CACCCCCA----  
YGCCCCCTGRCA



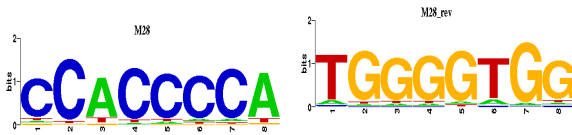
MA0268.1\_ADR1 2.0817e-04 -TGGGGGTG  
KTGGGN--



MA0436.1\_YPR022C 2.1974e-04 --TGGGGGTG  
NGTGGGG---



**M28**



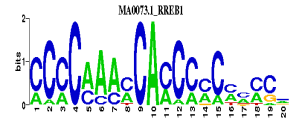
*forward*

*reverse compliment*

*Name E value Alignment Motif*

MA0073.1\_RREB1 5.3157e-05

-----TGGGGTGG-----  
 NGKKGKGGGTGKTTTGGGG



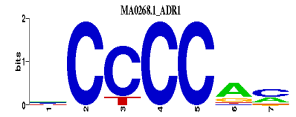
MA0436.1\_YPR022C 2.0653e-04

--TGGGGTGG  
 NGTGGGG---



MA0268.1\_ADR1 2.0891e-04

-TGGGGTGG  
 KTGGGNN--



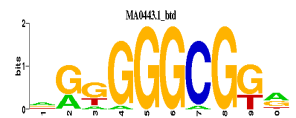
MA0373.1\_RPN4 2.5376e-04

--CCACCCCA  
 CGCCACC---

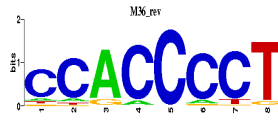
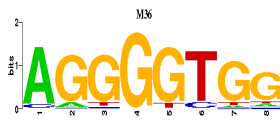


MA0443.1\_btd 3.6731e-04

-CCACCCCA-  
 YCCGCCMCN



**M36**



*forward*

*reverse compliment*

*Name* *E value*

*Alignment*

*Motif*

MA0342.1\_MSN4 2.2151e-06

AGGGGTGG  
 AGGGG---



MA0366.1\_RGM1 2.2328e-06

CCACCCCT  
 ---CCCCT



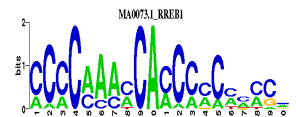
MA0341.1\_MSN2 6.0389e-06

CCACCCCT  
 ---CCCCT



MA0073.1\_RREB1 5.5397e-05

-----AGGGGTGG-----  
 NGKKGKGGGTGKTTTGGGG





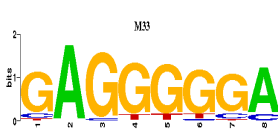
MA0443.1\_btd

1.0419e-04

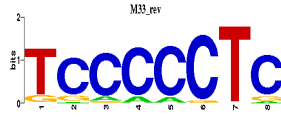
-CCACCCCT-  
YCCGCCMCN



**M33**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0057.1\_MZF1\_5-13 3.0924e-09

-GAGGGGGA-  
NKAGGGGNAN



MA0342.1\_MSN4 2.2265e-06

TCCCCTC  
--CCCCT-



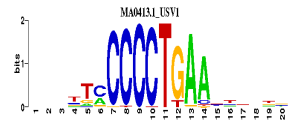
MA0366.1\_RGM1 2.3823e-06

TCCCCTC  
--CCCCT-



MA0413.1\_USV1 2.6971e-06

----TCCCCTC-----  
NNNNTMCCCCTGAANNNNNN

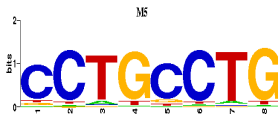


MA0341.1\_MSN2 5.8829e-06

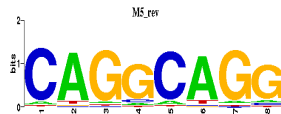
GAGGGGGA  
-AGGGG--



**M5**



*forward*



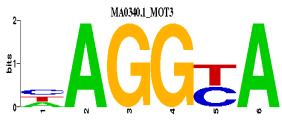
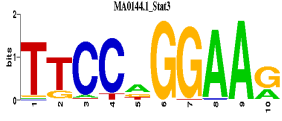

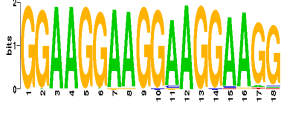

*reverse compliment*

*Name*

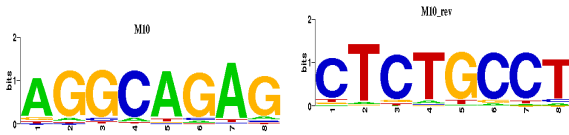
*E value*

*Alignment*

*Motif*


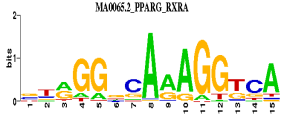


MA0340.1_MOT3	2.7119e-05	CCTGCCTG --TRCCTN	
MA0144.1_Stat3	1.8097e-04	CCTGCCTG--- -CTTCCNGGAA	
MA0156.1_FEV	2.3988e-04	CCTGCCTG AYTTCCTG	
MA0149.1_EWSR1-FLI1	8.7125e-04	----CCTGCCTG----- CCTTCCTTCCTTCCTTC	
MA0026.1_Eip74EF	8.9848e-04	CCTGCCTG -YTTCGGG	

**M10**



*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0283.1_CHA4	3.6901e-05	-CTCTGCCT NCTCCGCC-	
MA0065.2_PPARG_RXRA	9.2710e-05	----CTCTGCCT--- TGMCCTTTGNCCYNN	
MA0062.1_GABPA	2.5803e-04	CTCTGCCT-- SNCTTCCGGT	
MA0340.1_MOT3	3.2126e-04	CTCTGCCT- ---TRCCTN	

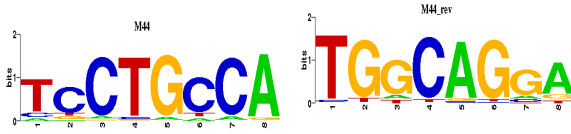
MA0080.2\_SPI1

8.7230e-04

CTCTGCCT  
-ACTTCCT



**M44**

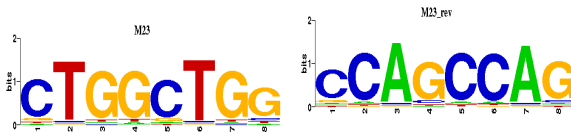


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0410.1_UGA3	3.3549e-05	TCCTGCCA TCCCGCCN	
MA0119.1_TLX1_NFIC	6.1368e-05	-----TCCTGCCA TTGGCNNNSTGCCA	
MA0207.1_achi	1.4164e-04	TCCTGCCA --CTGTCA	
MA0227.1_hth	2.6973e-04	TCCTGCCA --CTGTCA	
MA0144.1_Stat3	3.8960e-04	TGGCAGGA-- TTCNGGAAG	

**M23**



*forward*

*reverse compliment*

Name	E value	Alignment	Motif
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Stamp Results

10/01/13

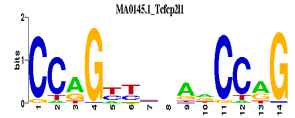
MA0267.1\_ACE2 1.7466e-04

--CCAGCCAG  
NCCAGCN--



MA0145.1\_Tcfcp211 4.1509e-04

-----CCAGCCAG  
CCRGNYNNANCCRG



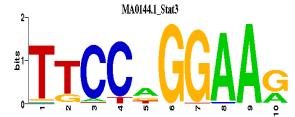
MA0402.1\_SWI5 6.2449e-04

--CCAGCCAG  
NACCAGCA--



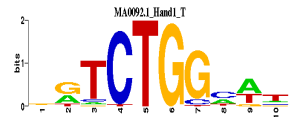
MA0144.1\_Stat3 1.8226e-03

CTGGCTGG--  
CTTCCNGGAA

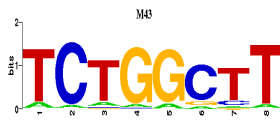


MA0092.1\_Hand1\_T 2.6825e-03

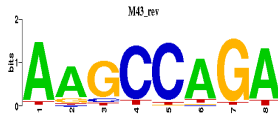
---CTGGCTGG  
NRTC TGGNWN-



M43



*forward*



*reverse compliment*

*Name*

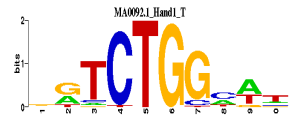
*E value*

*Alignment*

*Motif*

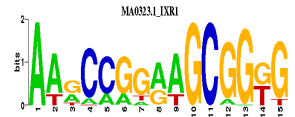
MA0092.1\_Hand1\_T 1.4209e-05

AAGCCAGA--  
NWNCCAGAYN



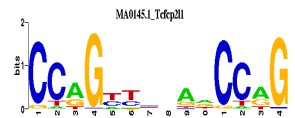
MA0323.1\_IXR1 1.7562e-05

AAGCCAGA-----  
AARCCGGAAGCGGKG



MA0145.1\_Tcfcp211 1.9110e-04

TCTGGCTT-----  
-CYGGNTNRRNCYGG



MA0263.1\_ttx-3\_c 6.5146e-04

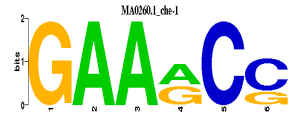
-----AAGCCAGA  
YTAACKAARCCAAT



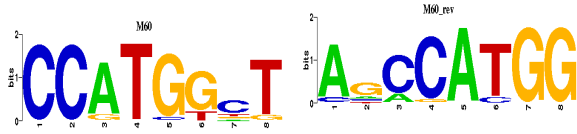
MA0260.1\_che-1

1.1104e-03

TCTGGCTT-  
---GGYTTC



**M60**

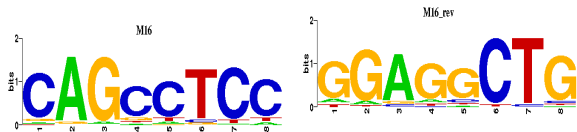


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0138.1_REST	4.8739e-04	----AGCCATGG----- TCAGCACCWNGGACAGCNC	
MA0138.2_REST	5.7584e-04	-----CCATGGCT----- GNNGCTGTCCNNGGTGCTGAN	
MA0368.1_RIM101	1.5909e-03	CCATGGCT -CTTGCR	
MA0077.1_SOX9	1.6609e-03	CCATGGCT- CYATTGTTN	
MA0371.1_ROX1	3.1973e-03	---AGCCATGG- GAGAACAATNGR	

**M16**



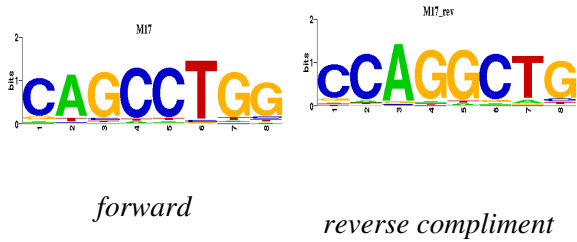
*forward*

*reverse compliment*

Name	E value	Alignment	Motif
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MA0412.1_UME6	4.0527e-04	---CAGCCTCC-- AWWTAGCCGCCSA	
MA0079.2_SP1	5.7846e-04	--CAGCCTCC CCCCNCCCC	
MA0305.1_GCR2	1.0611e-03	-GGAGGCTG NGGAAGC--	
MA0443.1_btd	1.7284e-03	-CAGCCTCC- YCCGCCMCN	
MA0373.1_RPN4	2.1662e-03	GGAGGCTG GGTGGCG-	

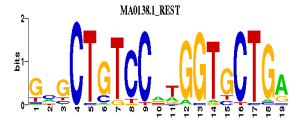
**M17**



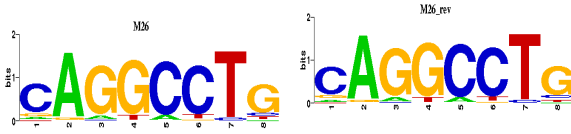
Name	E value	Alignment	Motif
MA0112.2_ESR1	6.5558e-04	---CCAGGCTG----- RGGTCANNNTGACCTNNNNN	
MA0144.1_Stat3	1.1767e-03	CAGCCTGG-- CTTCNGGAA	
MA0344.1_NHP10	3.3375e-03	--CCAGGCTG TCCCCGN--	
MA0456.1_opa	4.3736e-03	----CCAGGCTG GMCCCCCGCNG	

MA0138.1\_REST 5.6914e-03

----CAGCCTGG-----  
TCAGCACCWNGGACAGCNC



**M26**

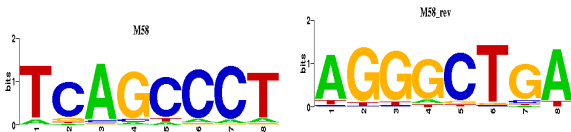


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0146.1_Zfx	5.4828e-04	-----CAGGCCTG NNNGCCNNGGCTN	
MA0450.1_hkb	6.4408e-03	-CAGGCCTG TCAGCCCM	
MA0086.1_sna	6.6536e-03	CAGGCCTG --CACCTG	
MA0381.1_SKN7	7.4309e-03	CAGGCCTG NYGGCC--	
MA0340.1_MOT3	1.3854e-02	CAGGCCTG --TRCCTN	

**M58**



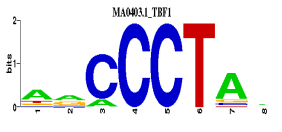
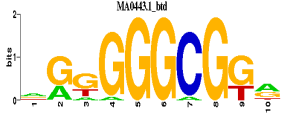


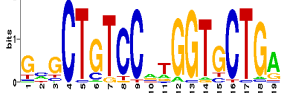
*forward*

*reverse compliment*

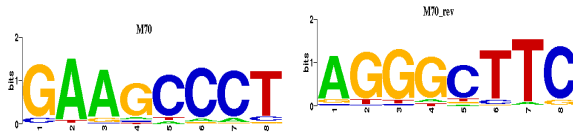
Name	E value	Alignment	Motif
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Stamp Results

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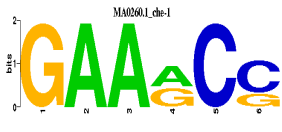



MA0403.1_TBF1	8.9842e-05	--AGGGCTGA NTAGGGYT--	
MA0443.1_btd	6.1645e-04	TCAGCCCT-- YCCGCCMCN	
MA0009.1_T	7.4897e-04	-TCAGCCCT-- TTCACACCTAG	
MA0117.1_Mafb	8.8127e-04	---TCAGCCCT NNNTCAGC---	
MA0138.1_REST	1.6859e-03	-----AGGGCTGA GNGCTGTCCNWWGTGCTGA	

**M70**



*forward*

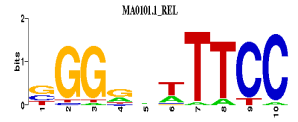
*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0260.1_che-1	4.8726e-07	AGGGCTTC --GGYTTC	
MA0304.1_GCR1	3.0800e-06	--GAAGCCCT TGGAAGCC--	
MA0403.1_TBF1	8.4059e-05	--AGGGCTTC NTAGGGYT--	
MA0305.1_GCR2	2.0472e-04	--GAAGCCCT NGGAAGC---	

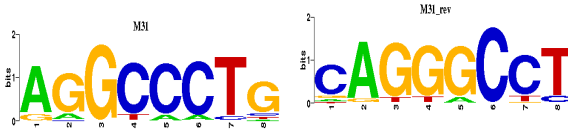


MA0101.1\_REL 1.8808e-03

--GAAGCCCT  
GGAAWNYCCN



**M31**

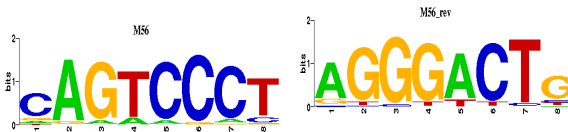


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0364.1_REI1	1.9333e-04	-CAGGGCCT NCAGGGG--	
MA0366.1_RGM1	1.9796e-03	AGGCCCTG --CCCCT-	
MA0342.1_MSN4	2.0392e-03	AGGCCCTG --CCCCT-	
MA0341.1_MSN2	3.4413e-03	CAGGGCCT -AGGGG--	
MA0086.1_sna	7.1535e-03	AGGCCCTG --CACCTG	

**M56**



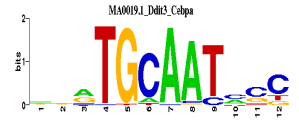
*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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MA0019.1\_Ddit3\_Cebpa 1.4190e-03

AGGGACTG-----  
-GSNATTGCAYNN



MA0342.1\_MSN4 1.8502e-03

CAGTCCCT  
---CCCCT



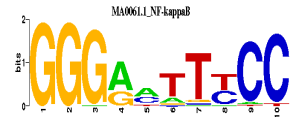
MA0366.1\_RGM1 1.9078e-03

CAGTCCCT  
---CCCCT



MA0061.1\_NF-kappaB 2.2919e-03

AGGGACTG---  
-GGGAMTTYCC

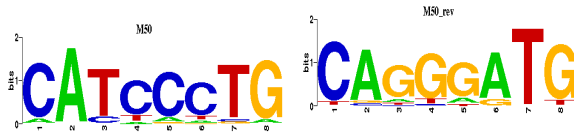


MA0341.1\_MSN2 2.7725e-03

CAGTCCCT  
---CCCCT



**M50**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0364.1\_REI1 1.9305e-04

CATCCCTG--  
--CCCCTGN



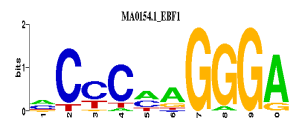
MA0090.1\_TEAD1 2.6775e-04

--CAGGGATG--  
CNSWGGAAATGTR



MA0154.1\_EBF1 6.2208e-04

CATCCCTG----  
--TCCCTNGGGN



MA0366.1\_RGM1 1.9636e-03

CATCCCTG  
--CCCCT--

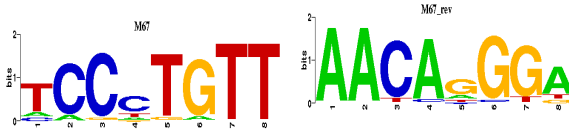


MA0348.1\_OAF1 2.0382e-03

CATCCCTG-  
NATCYCCGN



**M67**

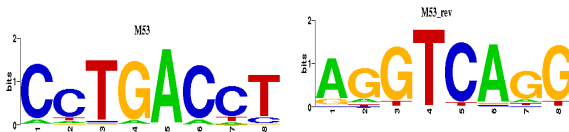


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0364.1_REI1	1.9358e-04	AACAGGGA -NCAGGGG	
MA0154.1_EBF1	7.2086e-04	TCCCTGTT-- TCCCTNGGGN	
MA0217.1_caup	2.0194e-03	TCCCTGTT- ----TGTTA	
MA0366.1_RGM1	2.0217e-03	AACAGGGA ---AGGGG	
MA0342.1_MSN4	2.2944e-03	AACAGGGA ---AGGGG	

**M53**



*forward*

*reverse compliment*

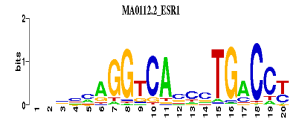
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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Stamp Results

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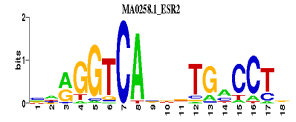
MA0112.2\_ESR1 1.3664e-09

-----CCTGACCT  
NNNNNAGGTCANNNTGACCY



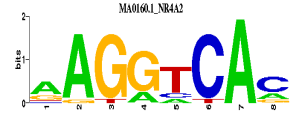
MA0258.1\_ESR2 1.5696e-07

-----CCTGACCT--  
NAGGNCANNNTGACCYN



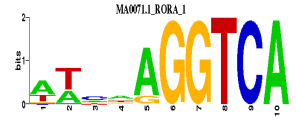
MA0160.1\_NR4A2 2.2013e-06

-AGGTCAGG  
AAGGTCAC-



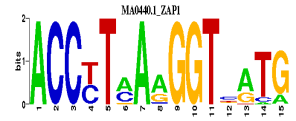
MA0071.1\_RORA\_1 1.3554e-05

CCTGACCT----  
--TGACCTNNWW

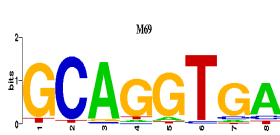


MA0440.1\_ZAP1 2.3408e-05

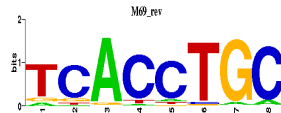
-----AGGTCAGG  
ACCYTMAAGGTNATG



**M69**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0086.1\_sna 4.1135e-09

GCAGGTGA  
-CAGGTG-



MA0322.1\_INO4 6.4999e-08

-TCACCTGC  
TTCACATGC



MA0321.1\_INO2 8.9828e-08

-TCACCTGC  
TTCACATGC



MA0409.1\_TYE7 3.1120e-06

TCACCTGC  
TCACGTG-

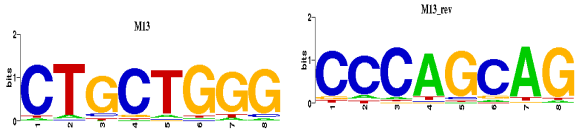


MA0281.1\_CBF1 1.6590e-05

TCACCTGC  
TCACGTGN



**M13**

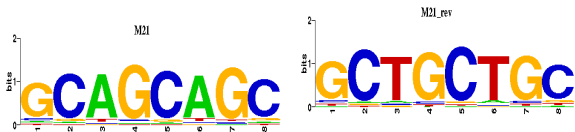


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0402.1_SWI5	1.8271e-06	-CCCAGCAG NACCAGCA-	
MA0267.1_ACE2	1.8878e-04	CTGCTGGG -NGCTGGN	
MA0139.1_CTCF	2.6367e-04	-----CTGCTGGG-- NNSYGCCMCTRSTGGNNR	
MA0150.1_NFE2L2	4.1342e-04	CTGCTGGG---- -TGCTNWGTCAY	
MA0055.1_Myf	6.2607e-04	CCCAGCAG----- --CAGCAGYTGCYK	

**M21**








*forward*

*reverse compliment*

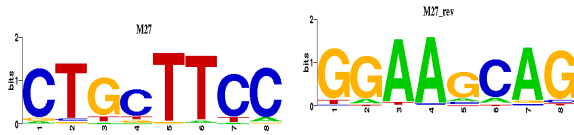
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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Stamp Results

10/01/13

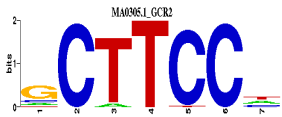



MA0055.1_Myf	2.6234e-07	--GCTGCTGC-- CAGCAGYTGCYK	
MA0048.1_NHLH1	5.0061e-07	--GCAGCAGC-- NCGCAGCTGCGN	
MA0454.1_odd	2.5507e-04	-GCAGCAGC-- NACAGTAGCAN	
MA0402.1_SWI5	7.7342e-04	--GCAGCAGC NACCAGCA--	
MA0287.1_CUP2	9.9826e-04	----GCTGCTGC CWTTTYTGCTG-	

**M27**



*forward*

*reverse compliment*

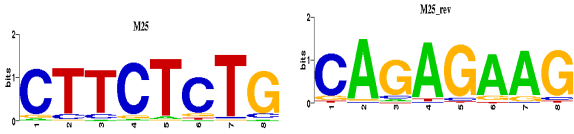
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0305.1_GCR2	2.0562e-07	-GGAAGCAG NGGAAGC--	
MA0304.1_GCR1	1.6253e-06	CTGCTTCC- -GGCTTCCA	
MA0323.1_IXR1	8.5398e-06	--CTGCTTCC----- CMCCGCTTCCGGYTT	
MA0080.1_SPI1	4.3068e-05	CTGCTTCC- ---STTCCN	

MA0080.2\_SPI1 1.8093e-04

CTGCTTCC-  
--ACTTCCT



**M25**

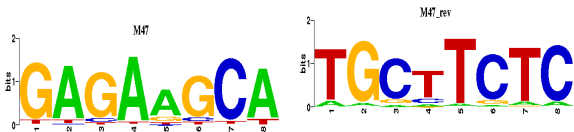


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0035.2_Gata1	3.6360e-04	--CTTCTCTG- NNNTTATCTNN	
MA0437.1_YPR196W	4.7836e-04	CAGAGAAG- CGGRNAAAT	
MA0287.1_CUP2	1.0981e-03	---CAGAGAAG CAGCARAAAWG	
MA0289.1_DAL80	1.2583e-03	CTTCTCTG CTTATCG-	
MA0029.1_Evi1	1.9061e-03	-----CTTCTCTG NNTTATCTTRTCTN	

**M47**



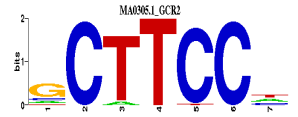
*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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MA0305.1\_GCR2 1.9828e-04

GAGAAGCA  
NGGAAGC-



MA0417.1\_YAP5 2.2924e-04

-TGCTTCTC  
ATGCTT---



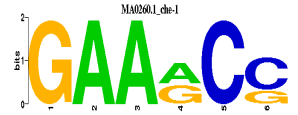
MA0454.1\_odd 2.8169e-04

-TGCTTCTC--  
NTGCTACTGTN



MA0260.1\_che-1 5.8666e-04

TGCTTCTC  
GGYTTC--

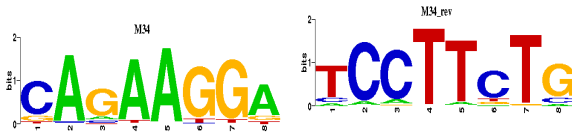


MA0304.1\_GCR1 9.0421e-04

TGCTTCTC  
GGCTTCCA



**M34**



*forward*

*reverse compliment*

*Name*

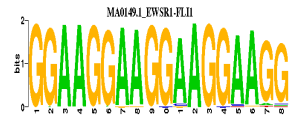
*E value*

*Alignment*

*Motif*

MA0149.1\_EWSR1-FLI1 2.7059e-04

-----TCCTTCTG  
CCTTCCTTCCTTCCTTCC-



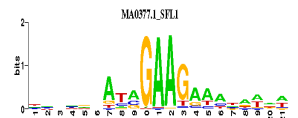
MA0454.1\_odd 1.5072e-03

-TCCTTCTG--  
NTGCTACTGTN



MA0377.1\_SFL1 2.3509e-03

-----TCCTTCTG-----  
WNWNNNWTCTTCNNTNNTNNNN



MA0091.1\_TAL1\_TCF3 2.7654e-03

--CAGAAGGA--  
AMCAGATGKTNN

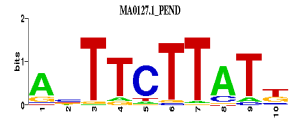




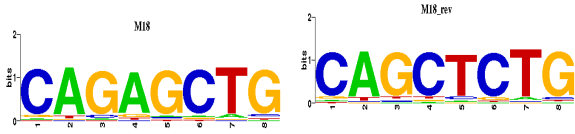
MA0127.1\_PEND

3.8092e-03

TCCTTCTG---  
-ANTTCTTATK



**M18**

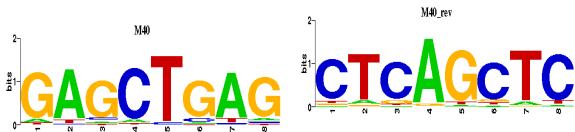


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0048.1_NHLH1	2.0035e-03	-CAGAGCTG--- NCGCAGCTGCGN	
MA0335.1_MET4	3.9908e-03	-CAGAGCTG CCACAGNT-	
MA0389.1_SRD1	4.7666e-03	-CAGAGCTG NNAGATCT-	
MA0451.1_kni	1.0856e-02	----CAGAGCTG AAANTAGAGCAN	
MA0145.1_Tcfcp211	1.1385e-02	-CAGCTCTG----- CCRGNYNNANCCRG	



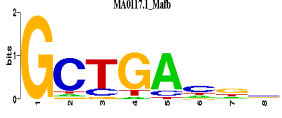
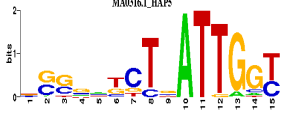
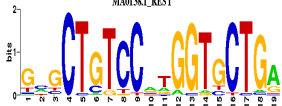
**M40**



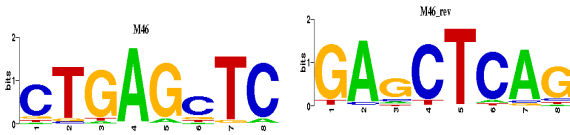
*forward*

*reverse compliment*

Name	E value	Alignment	Motif
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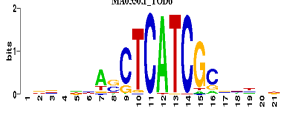
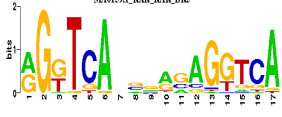
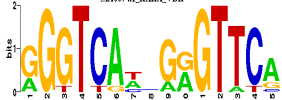
MA0150.1_NFE2L2	1.0617e-04	GAGCTGAG---- -TGCTNWTGTCAY	
MA0048.1_NHLH1	2.0310e-04	---GAGCTGAG- NCGCAGCTGCGN	
MA0117.1_MafB	8.2148e-04	GAGCTGAG-- --GCTGANNN	
MA0316.1_HAP5	1.1366e-03	----CTCAGCTC--- ACCAATNAGMNNSSN	
MA0138.1_REST	1.6008e-03	-----GAGCTGAG GNGCTGTCCNWGGTGTCTGA-	

**M46**



*forward*

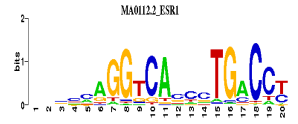
*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0326.1_MAC1	1.9038e-03	CTGAGCTC- -YGAGCAA	
MA0350.1_TOD6	3.1229e-03	-----CTGAGCTC----- NNNNNGCGATGAGSTNNNNN	
MA0159.1_RXR_RAR_DR5	5.4865e-03	CTGAGCTC----- -TGACCTNYNNNTGAMCY	
MA0074.1_RXRA_VDR	5.6831e-03	CTGAGCTC----- -TGAACYCNNTGACCC	

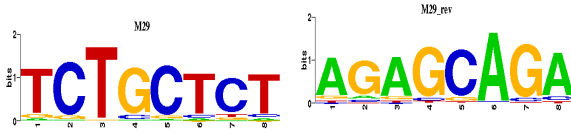
MA0112.2\_ESR1

7.4875e-03

-----CTGAGCTC  
NNNNNAGGTCANNNTGACCY-



**M29**



*forward*

*reverse compliment*

*Name*                      *E value*                      *Alignment*                      *Motif*

MA0326.1\_MAC1

3.1157e-05

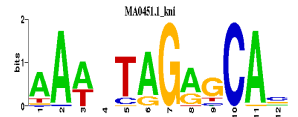
TCTGCTCT  
TTTGCTCR



MA0451.1\_kni

8.8537e-05

TCTGCTCT-----  
-NTGCTCTANTTT



MA0287.1\_CUP2

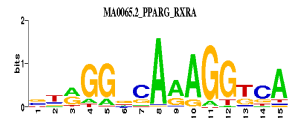
9.6891e-04

----TCTGCTCT  
CWITTTYTGCTG-



MA0065.2\_PPARG\_RXRA 1.1964e-03

----TCTGCTCT--  
TGMCCITTTGNCCYNN



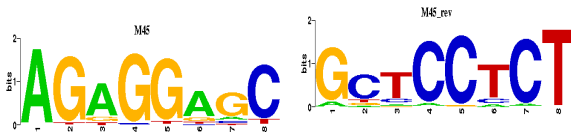
MA0148.1\_FOXA1

2.8390e-03

-AGAGCAGA--  
NWRWGYAAACA








**M45**



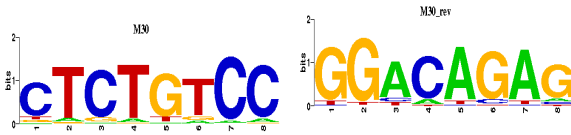
*forward*

*reverse compliment*

*Name*                      *E value*                      *Alignment*                      *Motif*





MA0081.1_SPIB	9.2233e-06	AGAGGAGC ASMGGA-	
MA0454.1_odd	1.2985e-03	--GCTCCTCT- NTGCTACTGTN	
MA0130.1_ZNF354C	5.3148e-03	AGAGGAGC -GTGGAK-	
MA0342.1_MSN4	6.8791e-03	GCTCCTCT ---CCCCT	
MA0366.1_RGM1	6.9394e-03	AGAGGAGC AGGGG---	

**M30**



*forward*

*reverse compliment*

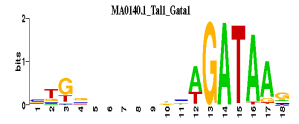
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0207.1_achi	2.8180e-05	CTCTGTCC --CTGTCA	
MA0138.1_REST	4.1448e-05	-----GGACAGAG- TCAGCACCWNGGACAGCNC	
MA0138.2_REST	6.2744e-05	-----GGACAGAG-- NTCAGCACCNNGGACAGCNC	
MA0227.1_hth	6.5397e-05	GGACAGAG TGACAG--	

Stamp Results

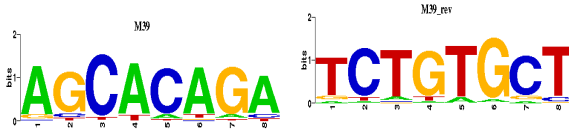
10/01/13

MA0140.1\_Tal1\_Gata1 1.7309e-04

---CTCTGTCC-----  
NTTATCTNNNNNNNNCNN



M39

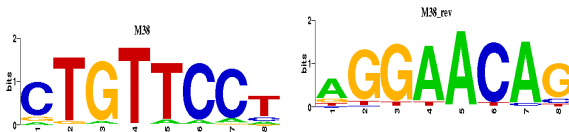


*forward*

*reverse compliment*

Name	E value	Alignment	Motif
MA0332.1_MET28	1.9428e-05	AGCACAGA -CCACAG-	
MA0002.2_RUNX1	3.2139e-04	--AGCACAGA- NAACCACARNN	
MA0335.1_MET4	7.2671e-04	AGCACAGA- -CCACAGNT	
MA0326.1_MAC1	1.3106e-03	--AGCACAGA YGAGCAA--	
MA0014.1_Pax5	1.5079e-03	-----TCTGTGCT-- YSGYYMCGCWNCRRNNNNNCN	

M38



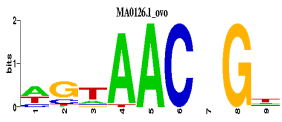
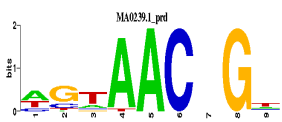



*forward*

*reverse compliment*

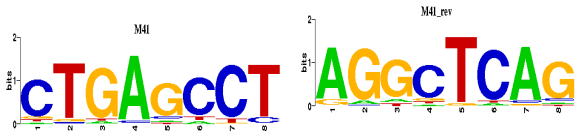
Name	E value	Alignment	Motif
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Stamp Results

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MA0126.1_ovo	4.8176e-06	-CTGTTCT NCNGTTACW	
MA0239.1_prd	4.8176e-06	-CTGTTCT NCNGTTACW	
MA0261.1_lin-14	8.1445e-05	CTGTTCT NYGTTCT--	
MA0080.2_SPI1	2.1675e-04	CTGTTCT -ACTTCT	
MA0062.1_GABPA	3.6914e-04	CTGTTCT-- SNCTTCCGGT	

**M41**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0150.1_NFE2L2	4.9391e-04	-AGGCTCAG-- RTGACWNAGCA	
MA0326.1_MAC1	1.9173e-03	CTGAGCCT-- -YGAGCAA	
MA0099.2_API	2.7293e-03	AGGCTCAG TGACTCA-	
MA0263.1_ttx-3_c	5.9649e-03	--AGGCTCAG---- ATTGGYTTMGTAR	

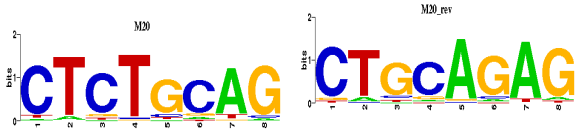
MA0099.1\_Fos

8.6578e-03

AGGCTCAG  
TGANTCAC



**M20**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

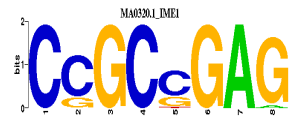
MA0150.1\_NFE2L2 4.9716e-04

CTGCAGAG----  
-TGCTNWTCA Y



MA0320.1\_IME1 6.9340e-04

CTCTGCAG  
CTCGGCGG



MA0385.1\_SOK2 1.1777e-03

CTCTGCAG---  
NNMTGCAKNNN



MA0287.1\_CUP2 2.5616e-03

---CTCTGCAG  
CWTTTYTGCTG

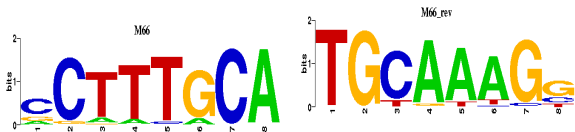


MA0062.1\_GABPA 2.7968e-03

CTCTGCAG--  
SNCTTCCGGT



**M66**



*forward*

*reverse compliment*

*Name*

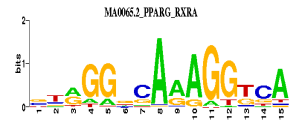
*E value*

*Alignment*

*Motif*

MA0065.2\_PPARG\_RXRA 2.0970e-06

---CCTTTGCA---  
TGMCCTTTGNCCYNN



MA0370.1\_RME1 2.2229e-06

--CCTTTGCA  
TNCCTTTNNA



MA0017.1\_NR2F1 4.3159e-06

---CCTTTGCA---  
TGAMCCTTTGNMCNN



MA0244.1\_slbo 5.9365e-05

CCTTTGCA--  
--TKNGYAAT

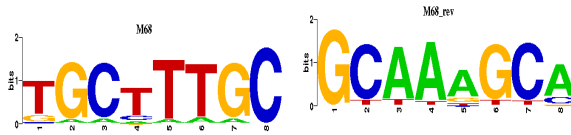


MA0453.1\_nub 8.2579e-05

--CCTTTGCA--  
NTNATTTGCATA



**M68**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0053.1\_MNB1A 3.2108e-06

TGCTTTGC  
-NCTTT--



MA0064.1\_PBF 4.2707e-06

TGCTTTGC  
-RCITT--



MA0020.1\_Dof2 2.1566e-05

TGCTTTGC  
NGCTTT--



MA0021.1\_Dof3 2.8768e-05

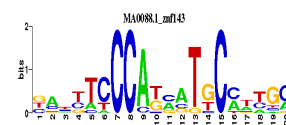
TGCTTTGC  
NRCITT--



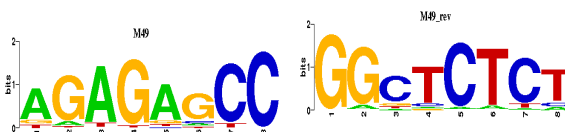


MA0088.1\_znf143 1.8725e-04

GCAAAGCA-----  
KCNNKGMANNMTGGGANNNN



**M49**

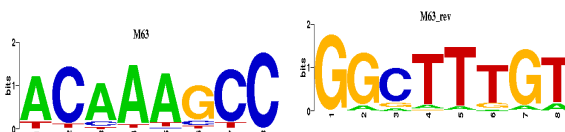


*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0205.1_Tr1	3.5326e-03	-AGAGAGCC- NNGAGAGNNR	
MA0101.1_REL	8.9065e-03	AGAGAGCC-- GGAAWNYCCN	
MA0384.1_SNT2	1.0453e-02	-GGCTCTCT-- NNGCGCTAYCA	
MA0451.1_kni	1.1453e-02	-GGCTCTCT--- NTGCTCTANTTT	
MA0053.1_MNB1A	1.4086e-02	GGCTCTCT -NCTTT--	

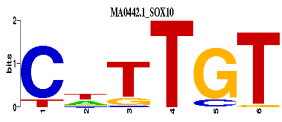




**M63**



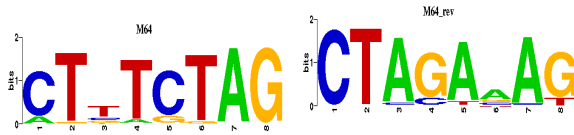
*forward*

*reverse compliment*

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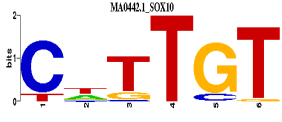


MA0442.1_SOX10	9.3353e-08	ACAAAGCC ACAANG--	
MA0053.1_MNB1A	3.0660e-06	GGCTTTGT -NCTTT--	
MA0064.1_PBF	3.7276e-06	GGCTTTGT -RCTTT--	
MA0020.1_Dof2	2.1992e-05	GGCTTTGT NGCTTT--	
MA0021.1_Dof3	4.2423e-05	GGCTTTGT NRCTTT--	

**M64**



*forward*

*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0266.1_ABF2	1.8431e-04	CTNTCTAG-- ---TCTAGAN	
MA0442.1_SOX10	1.8950e-04	CTAGANAG --ACAANG	
MA0279.1_CAD1	2.2304e-04	-CTAGANAG- ATTAGTAAGC	
MA0253.1_vnd	2.5767e-04	--CTAGANAG YACTTGARA-	

# Stamp Results

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MA0419.1\_YAP7 4.6622e-04

-CTAGANAG--  
ATTAGTAAKCN



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