

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

[Input file: 75 motifs loaded](#)

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

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

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

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## Multiple Alignment

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

M0 :	----AGCCCA--
M1 :	-----CCCACC-
M2 :	-----CCCCCA-
M3 :	-----CCCCTT
M4 :	----TGCCCC--
M5 :	--CCTCCC----
M6 :	---CAGCCA---
M7 :	-----CCCCAC-
M8 :	-CCCTGC-----
M9 :	---TTGCAG---
M10 :	-----CCCTCT-
M11 :	----ACCCCC--
M12 :	CCACAG-----
M13 :	----TCCCCT--
M14 :	---CCACCT---
M15 :	---CTGCCT---
M16 :	--GGAGAG----
M17 :	--ACAGRT----
M18 :	---ATGCCA---
M19 :	-----TCCTCC-
M20 :	--TCAGTT----
M21 :	GAGGAG-----
M22 :	-----CCCTTG

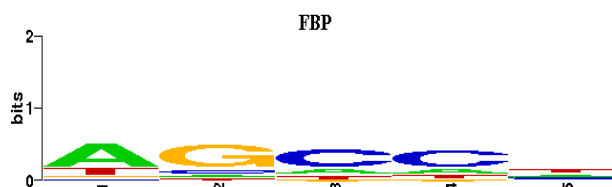
# Stamp Results

12/18/13

M23:	----AGAATT--
M24:	-----TCCTTA-
M25:	---RAGCAC---
M26:	-AGGAGC-----
M27:	-GAGAGC-----
M28:	-GGAAGC-----
M29:	---MAGACC---
M30:	-----GCCTNA-
M31:	-----CCTGTC
M32:	----CACCTG--
M33:	----AGWCAT--
M34:	-CCAAGC-----
M35:	--CAAGCA----
M36:	--TTCACC----
M37:	--ACTGCC----
M38:	--AAAGCC----
M39:	-AACAGT-----
M40:	----AGTNAC--
M41:	-TCAAGA-----
M42:	---GACCCA---
M43:	--TTTGCC----
M44:	---TTCCCA---
M45:	TCAAAG-----
M46:	-TGCAGA-----
M47:	---AAGCCT---
M48:	---CAGCTT---
M49:	-AAAAGC-----
M50:	----AGATTC--
M51:	---AAGTCA---
M52:	---GTTCCC---
M53:	---GAGTTT---
M54:	---CATCCT---
M55:	----TGCATT--
M56:	----GACCTT--
M57:	-----CCCAAA-
M58:	-----CCTGAA-
M59:	---CAGAAA---
M60:	---CAGTGA---
M61:	-CTCAGA-----
M62:	----AGCCTT--
M63:	-ACAAGG-----
M64:	-TGGAGT-----
M65:	----AGGAAA--

M66: ----AGAAAG--  
 M67: TGGAAG-----  
 M68: ---ATGANC---  
 M69: ---GAGATG---  
 M70: ----AGCAAA--  
 M71: ----AACCAA--  
 M72: -----ACCTTC-  
 M73: --TGTGAC----  
 M74: ----AGTTCA--

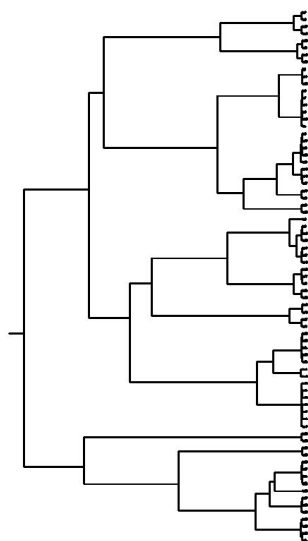
**Familial Profile:**  
[\(click for matrix\)](#)



## Motif Tree

Tree (drawn by **Phylip**)

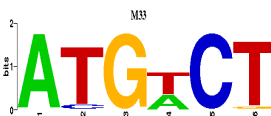



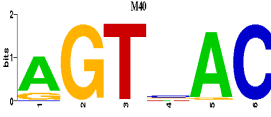
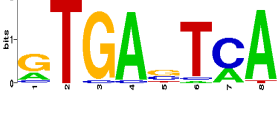
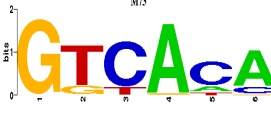

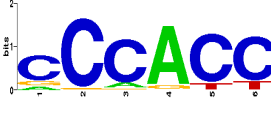


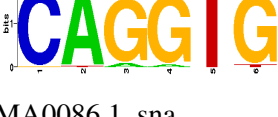
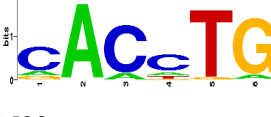
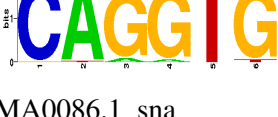
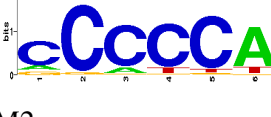

[Click here for Newick-format tree \(viewable with MEGA\)](#)

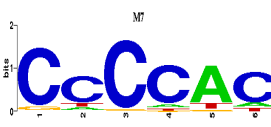

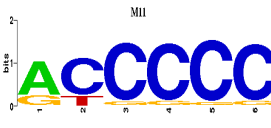
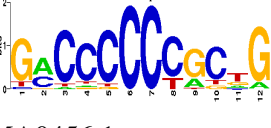
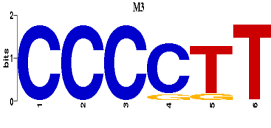

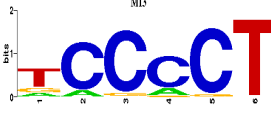



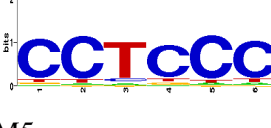
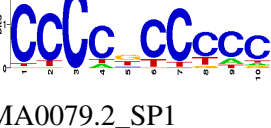
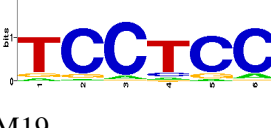
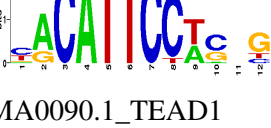
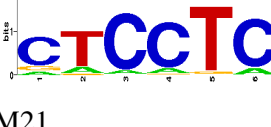



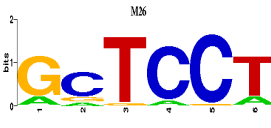

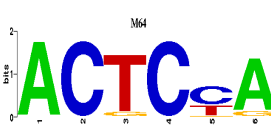
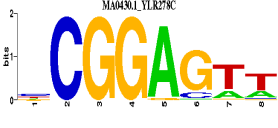
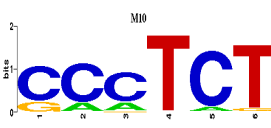

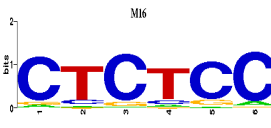

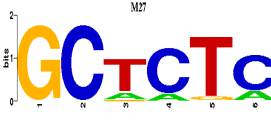
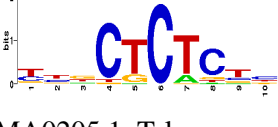
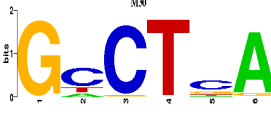
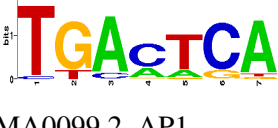
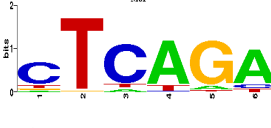


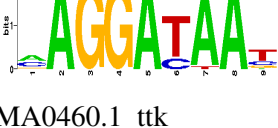
Input Motif

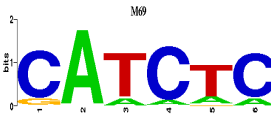

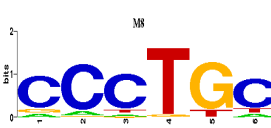



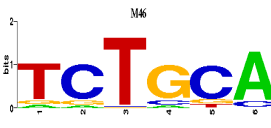
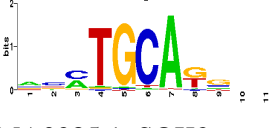
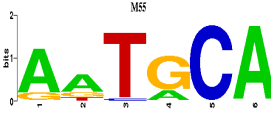
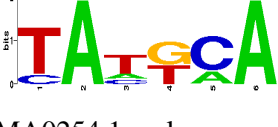
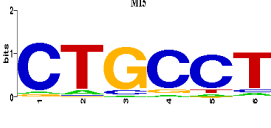


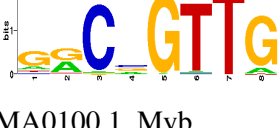


Best match in  
JASPAR

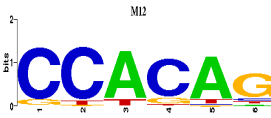

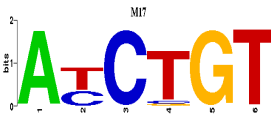




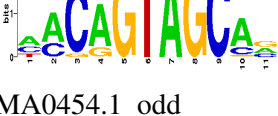
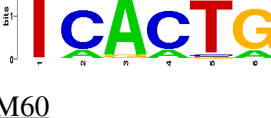
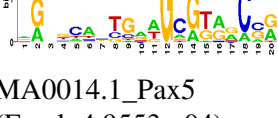

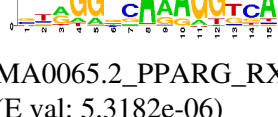
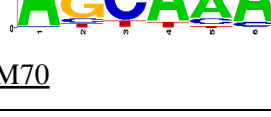
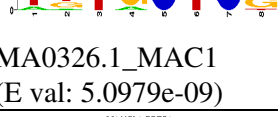
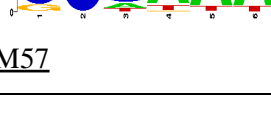
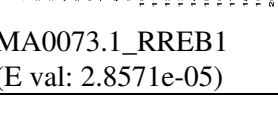
 <b>M0</b>	 MA0162.1_Egr1 (E val: 2.2523e-04)
 <b>M6</b>	 MA0285.1_CRZ1 (E val: 3.8023e-04)
 <b>M29</b>	 MA0092.1_Hand1_T (E val: 2.2745e-04)
 <b>M42</b>	 MA0359.1_RAP1

	(E val: 1.0202e-04)
 <p><b>M33</b></p>	 <p>MA0089.1_NFE2L1_MafG (E val: 1.4801e-04)</p>
 <p><b>M51</b></p>	 <p>MA0459.1_tll (E val: 6.4583e-08)</p>
 <p><b>M40</b></p>	 <p>MA0099.1_Fos (E val: 6.9702e-06)</p>
 <p><b>M73</b></p>	 <p>MA0322.1_INO4 (E val: 6.9962e-05)</p>
 <p><b>M1</b></p>	 <p>MA0436.1_YPR022C (E val: 8.2308e-06)</p>
 <p><b>M14</b></p>	 <p>MA0086.1_sna (E val: 1.3534e-06)</p>
 <p><b>M32</b></p>	 <p>MA0086.1_sna (E val: 6.6226e-11)</p>
 <p><b>M2</b></p>	 <p>MA0436.1_YPR022C (E val: 1.1657e-05)</p>

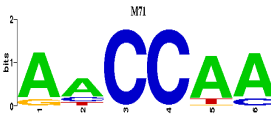

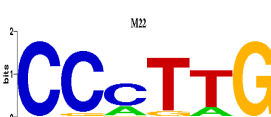

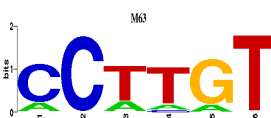
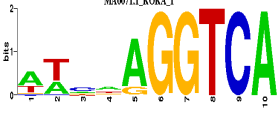
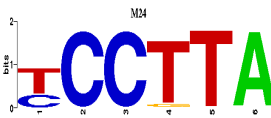

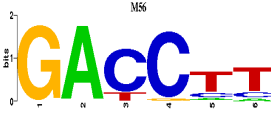
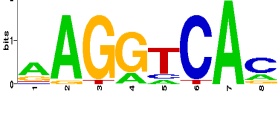
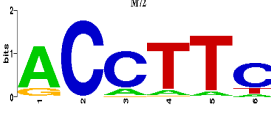
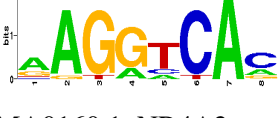


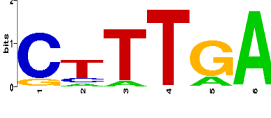

 <p><b>M7</b></p>	 <p>MA0436.1_YPR022C (E val: 2.1694e-09)</p>
 <p><b>M11</b></p>	 <p>MA0456.1_opa (E val: 2.0770e-06)</p>
 <p><b>M3</b></p>	 <p>MA0366.1_RGM1 (E val: 1.5783e-07)</p>
 <p><b>M13</b></p>	 <p>MA0342.1_MS4 (E val: 1.9302e-07)</p>
 <p><b>M4</b></p>	 <p>MA0123.1_abi4 (E val: 2.3191e-05)</p>
 <p><b>M5</b></p>	 <p>MA0079.2_SP1 (E val: 6.6034e-06)</p>
 <p><b>M19</b></p>	 <p>MA0090.1_TEAD1 (E val: 1.0867e-05)</p>
 <p><b>M21</b></p>	 <p>MA0081.1_SPIB (E val: 6.9840e-05)</p>



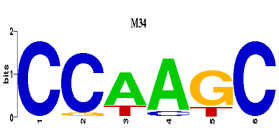

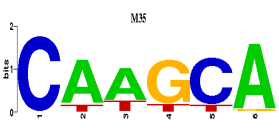

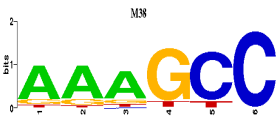

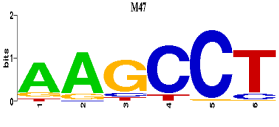

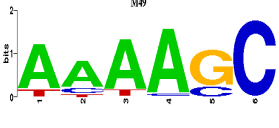

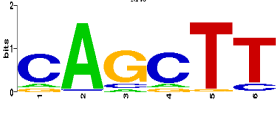



 <p><b>M26</b></p>	 <p><b>MA0454.1_odd</b> (E val: 9.6095e-04)</p>
 <p><b>M64</b></p>	 <p><b>MA0430.1_YLR278C</b> (E val: 6.9808e-05)</p>
 <p><b>M10</b></p>	 <p><b>MA0081.1_SPIB</b> (E val: 2.9851e-04)</p>
 <p><b>M16</b></p>	 <p><b>MA0354.1_PDR8</b> (E val: 2.1250e-05)</p>
 <p><b>M27</b></p>	 <p><b>MA0205.1_Trl</b> (E val: 1.7141e-04)</p>
 <p><b>M30</b></p>	 <p><b>MA0099.2_API</b> (E val: 3.3770e-05)</p>
 <p><b>M61</b></p>	 <p><b>MA0432.1_YNR063W</b> (E val: 2.4699e-04)</p>
 <p><b>M54</b></p>	 <p><b>MA0460.1_ttk</b> (E val: 8.2802e-05)</p>

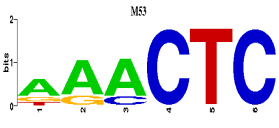



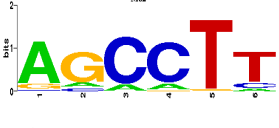
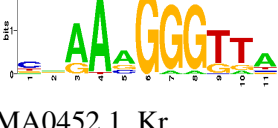
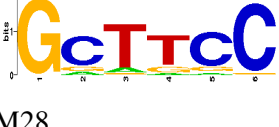
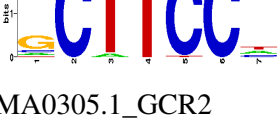
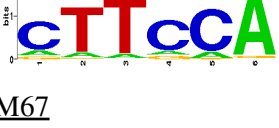
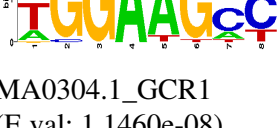
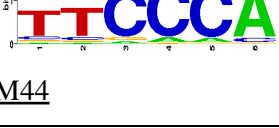
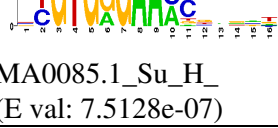
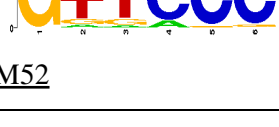
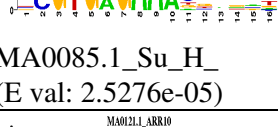

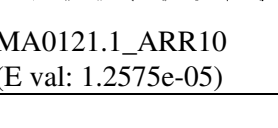
 <p><b>M69</b></p>	 <p><b>MA0354.1_PDR8</b> (E val: 3.0660e-05)</p>
 <p><b>M8</b></p>	 <p><b>MA0364.1_REI1</b> (E val: 7.1451e-06)</p>
 <p><b>M9</b></p>	 <p><b>MA0244.1_slbo</b> (E val: 9.0612e-05)</p>
 <p><b>M46</b></p>	 <p><b>MA0385.1_SOK2</b> (E val: 6.9607e-04)</p>
 <p><b>M55</b></p>	 <p><b>MA0254.1_vv1</b> (E val: 1.0196e-04)</p>
 <p><b>M15</b></p>	 <p><b>MA0340.1_MOT3</b> (E val: 3.0546e-05)</p>
 <p><b>M37</b></p>	 <p><b>MA0100.1_Myb</b> (E val: 1.0978e-04)</p>
 <p><b>M18</b></p>	 <p><b>MA0119.1_TLX1_NFIC</b> (E val: 1.8344e-06)</p>

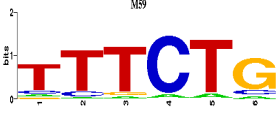

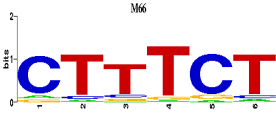
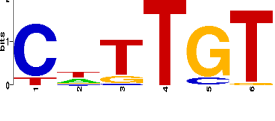
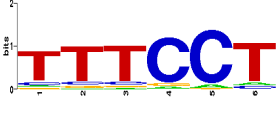


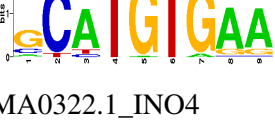
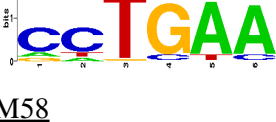
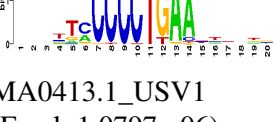

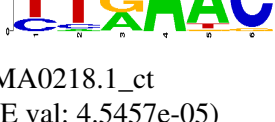

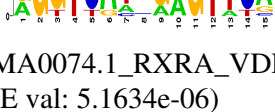
 <p><b>M12</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 5.6675e-11)</p>
 <p><b>M17</b></p>	 <p><b>MA0091.1_TAL1_TCF3</b> (E val: 5.7549e-05)</p>
 <p><b>M31</b></p>	 <p><b>MA0207.1_achi</b> (E val: 1.4047e-06)</p>
 <p><b>M39</b></p>	 <p><b>MA0454.1_odd</b> (E val: 6.5444e-07)</p>
 <p><b>M60</b></p>	 <p><b>MA0014.1_Pax5</b> (E val: 4.9553e-04)</p>
 <p><b>M43</b></p>	 <p><b>MA0065.2_PPARG_RXRA</b> (E val: 5.3182e-06)</p>
 <p><b>M70</b></p>	 <p><b>MA0326.1_MAC1</b> (E val: 5.0979e-09)</p>
 <p><b>M57</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 2.8571e-05)</p>



 <p><b>M71</b></p>	 <p><b>MA0313.1_HAP2</b> (E val: 2.1786e-05)</p>
 <p><b>M22</b></p>	 <p><b>MA0163.1_PLAG1</b> (E val: 9.7485e-07)</p>
 <p><b>M63</b></p>	 <p><b>MA0071.1_RORA_1</b> (E val: 9.3046e-05)</p>
 <p><b>M24</b></p>	 <p><b>MA0186.1_Dfd</b> (E val: 1.3801e-04)</p>
 <p><b>M56</b></p>	 <p><b>MA0160.1_NR4A2</b> (E val: 6.3908e-09)</p>
 <p><b>M72</b></p>	 <p><b>MA0160.1_NR4A2</b> (E val: 4.5554e-05)</p>
 <p><b>M41</b></p>	 <p><b>MA0266.1_ABF2</b> (E val: 4.2224e-06)</p>
 <p><b>M45</b></p>	 <p><b>MA0115.1_NR1H2_RXRA</b> (E val: 7.0161e-07)</p>

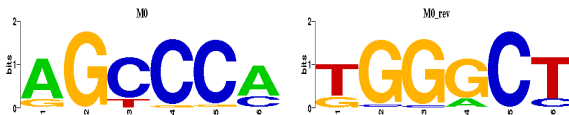
 <p><b>M25</b></p>	 <p>MA0417.1_YAP5 (E val: 8.2760e-05)</p>
 <p><b>M34</b></p>	 <p>MA0368.1_RIM101 (E val: 1.3287e-05)</p>
 <p><b>M35</b></p>	 <p>MA0417.1_YAP5 (E val: 6.9903e-05)</p>
 <p><b>M38</b></p>	 <p>MA0053.1_MNB1A (E val: 2.7841e-07)</p>
 <p><b>M47</b></p>	 <p>MA0304.1_GCR1 (E val: 5.5870e-05)</p>
 <p><b>M49</b></p>	 <p>MA0053.1_MNB1A (E val: 4.3387e-07)</p>
 <p><b>M48</b></p>	 <p>MA0164.1_Nr2e3 (E val: 7.9086e-06)</p>
 <p><b>M20</b></p>	 <p>MA0335.1_MET4 (E val: 6.5289e-05)</p>






 <p><b>M53</b></p>	 <p><b>MA0308.1_GSM1</b> (E val: 2.0297e-05)</p>
 <p><b>M23</b></p>	 <p><b>MA0325.1_LYS14</b> (E val: 5.9984e-05)</p>
 <p><b>M62</b></p>	 <p><b>MA0452.1_Kr</b> (E val: 1.9899e-03)</p>
 <p><b>M28</b></p>	 <p><b>MA0305.1_GCR2</b> (E val: 1.3984e-09)</p>
 <p><b>M67</b></p>	 <p><b>MA0304.1_GCR1</b> (E val: 1.1460e-08)</p>
 <p><b>M44</b></p>	 <p><b>MA0085.1_Su_H_</b> (E val: 7.5128e-07)</p>
 <p><b>M52</b></p>	 <p><b>MA0085.1_Su_H_</b> (E val: 2.5276e-05)</p>
 <p><b>M50</b></p>	 <p><b>MA0121.1_ARR10</b> (E val: 1.2575e-05)</p>

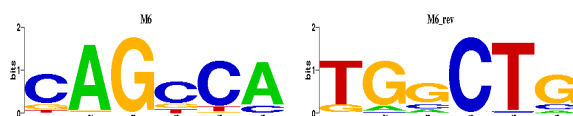
 <p><b>M59</b></p>	 <p><b>MA0287.1_CUP2</b> (E val: 2.1634e-05)</p>
 <p><b>M66</b></p>	 <p><b>MA0442.1_SOX10</b> (E val: 2.5289e-05)</p>
 <p><b>M65</b></p>	 <p><b>MA0156.1_FEV</b> (E val: 1.2491e-07)</p>
 <p><b>M36</b></p>	 <p><b>MA0322.1_INO4</b> (E val: 4.6619e-05)</p>
 <p><b>M58</b></p>	 <p><b>MA0413.1_USV1</b> (E val: 1.0797e-06)</p>
 <p><b>M68</b></p>	 <p><b>MA0218.1_ct</b> (E val: 4.5457e-05)</p>
 <p><b>M74</b></p>	 <p><b>MA0074.1_RXRA_VDR</b> (E val: 5.1634e-06)</p>





## Motif Similarity Matches

**M0**



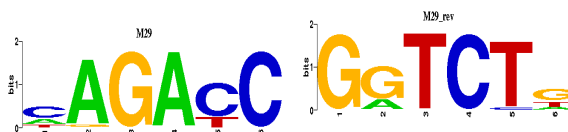
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0162.1_Egr1	2.2523e-04	-AGCCCA---- MCGCCCACGCN	
MA0450.1_hkb	8.8929e-04	---AGCCCA TCACGCCCM	
MA0083.1_SRF	8.9016e-04	-----TGGGCT CCATATATGGGC-	
MA0403.1_TBF1	1.6647e-03	--TGGGCT NTAGGGYT	
MA0443.1_btd	2.6406e-03	--AGCCCA-- YCCGCCCMCN	

**M6**

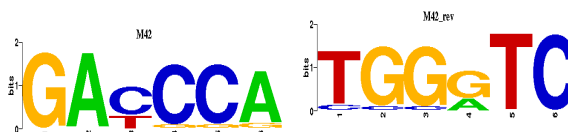
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0285.1_CRZ1	3.8023e-04	-TGGCTG-- GNGGCTNNN	
MA0263.1_ttx-3_c	1.5798e-03	--TGGCTG----- ATTGGYTTMGTTAR	
MA0161.1_NFIC	1.6109e-03	-TGGCTG TTGCN-	
MA0359.1_RAP1	3.4009e-03	----TGGCTG TGTATGGGTG	

MA0373.1\_RPN4 4.0019e-03

--TGGCTG  
GGTGGCG--

**M29***forward**reverse compliment*

Name	E value	Alignment	Motif
MA0092.1_Hand1_T	2.2745e-04	----MAGACC NWNCCAGAYN	
MA0009.1_T	2.8853e-03	---GGTCTK-- CTAGGTGTGAA	
MA0271.1_ARG80	7.2143e-03	-GGTCTK GNGTCW-	
MA0121.1_ARR10	7.2303e-03	-MAGACC- NMRNATCT	
MA0160.1_NR4A2	7.2721e-03	MAGACC-- GTGACCTT	

**M42***forward**reverse compliment*

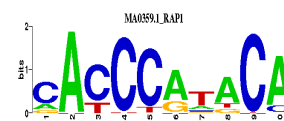
Name E value Alignment Motif

## Stamp Results

12/18/13

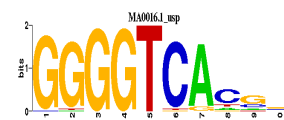
MA0359.1\_RAP1 1.0202e-04

----TGGGTC  
TGTATGGGTG



MA0016.1\_usp 1.4485e-04

----GACCCA  
NNGTGACCCC



MA0066.1\_PPARG 1.5768e-04

--TGGGTC-----  
ANTRGGTCACNNTGACCTAN



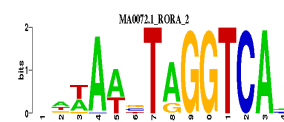
MA0295.1\_FHL1 2.7618e-04

--TGGGTC  
NNTGCGTC



MA0072.1\_RORA\_2 8.5982e-04

--GACCCA-----  
NTGACCTANTTWNN



M33

*forward**reverse compliment**Name**E value**Alignment**Motif*

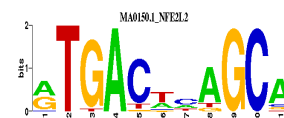
MA0089.1\_NFE2L1\_MafG 1.4801e-04

AGWCAT-  
-GTCATN



MA0150.1\_NFE2L2 2.7569e-04

-----AGWCAT  
TGCTNWGTCAY



MA0243.1\_sd 6.4130e-04

-----ATGWCT  
NYNNNRAATKWN-



MA0417.1\_YAP5 7.1219e-04

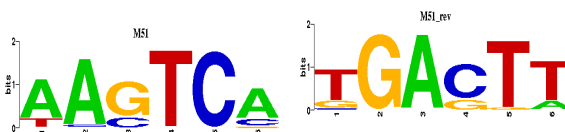
ATGWCT  
ATGCTT



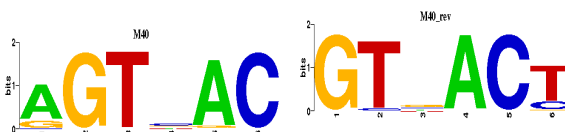
MA0272.1\_ARG81

1.1041e-03

ATGWCT--  
NTGACTCN

**M51***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0459.1_tll	6.4583e-08	--AAGTCA-- AAAAGTCAAM	
MA0272.1_ARG81	3.1177e-05	-AAGTCA- NGAGTCAN	
MA0099.2_API	3.7957e-05	-AAGTCA TGAGTCA	
MA0099.1_Fos	7.5065e-05	TGACTT-- TGANTCAC	
MA0096.1_bZIP910	1.0950e-04	-TGACTT MTGACGT	

**M40***forward**reverse compliment*

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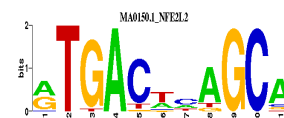
## Stamp Results

12/18/13

MA0099.1\_Fos 6.9702e-06

GTNACT--  
GTGANTCA

MA0150.1\_NFE2L2 1.4971e-05

-----AGTNAC  
TGCTNWGTCAY

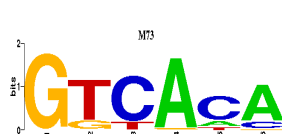
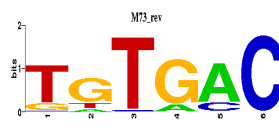
MA0272.1\_ARG81 2.5550e-05

--AGTNAC  
NGAGTCAN

MA0099.2\_AP1 3.3693e-05

--AGTNAC  
TGAGTCA-

MA0160.1\_NR4A2 5.1538e-05

GTNACT--  
GTGACCTT**M73***forward**reverse compliment**Name**E value**Alignment**Motif*

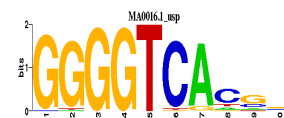
MA0322.1\_INO4 6.9962e-05

GTCACA---  
TTCACATGC

MA0160.1\_NR4A2 7.8769e-05

---GTCACA  
AAGGTCAC-

MA0016.1\_usp 9.2740e-05

---GTCACA-  
GGGGTCACNN

MA0321.1\_INO2 9.3597e-05

GTCACA---  
TTCACATGC

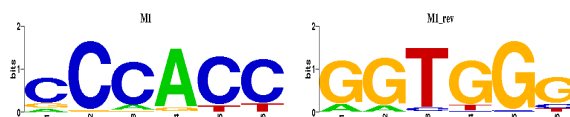
## Stamp Results

12/18/13

MA0067.1\_Pax2

1.1881e-04

—TGTGAC—  
NCRTGACN

**M1***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0436.1\_YPR022C

8.2308e-06

GGTGGG—  
NGTGGGG



MA0373.1\_RPN4

8.7818e-06

—CCCACC  
CGCCACC



MA0039.2\_Klf4

1.3844e-05

--CCCACC--  
GCCMCRCCCN



MA0268.1\_ADR1

6.0807e-05

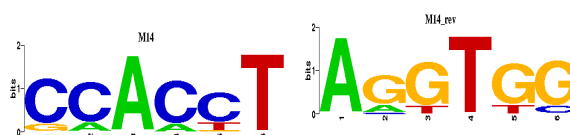
GGTGGG--  
—KTGGGGN



MA0140.1\_Tal1\_Gata1

1.1362e-04

-----CCCACC--  
NTTATCTNNNNNNNNC

**M14***forward**reverse compliment**Name**E value**Alignment**Motif*

## Stamp Results

12/18/13

MA0086.1\_sna 1.3534e-06

CCACCT-  
-CACCTG

MA0103.1\_ZEB1 2.0458e-06

-AGGTGG  
NAGGTG-

MA0373.1\_RPN4 1.1563e-05

--CCACCT  
CGCCACC-

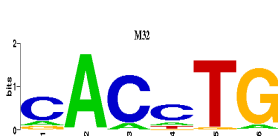
MA0009.1\_T 1.6979e-04

---CCACCT--  
TTCACACCTAG

MA0264.1\_ceh-22 3.2889e-04

----AGGTGG-  
NNTCAAGTGGN

M32

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0086.1\_sna 6.6226e-11

CACCTG  
CACCTG

MA0103.1\_ZEB1 1.8613e-06

CAGGTG  
NAGGTG

MA0004.1\_Arnt 4.5692e-05

CAGGTG  
CACGTG

MA0104.1\_Mycn 4.8188e-05

CAGGTG  
CACGTG

## Stamp Results

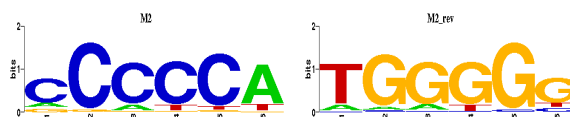
12/18/13

MA0364.1\_REI1 7.3372e-05

—CAGGTG  
NCAGGGG

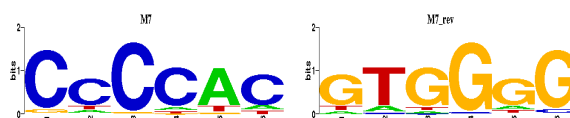


M2

*forward**reverse compliment*

Name	E value	Alignment	Motif
MA0436.1_YPR022C	1.1657e-05	--TGGGGG NGTGGGG--	
MA0268.1_ADR1	1.1834e-05	—TGGGGG KTGGGGN	
MA0155.1_INSM1	2.8732e-05	--CCCCCA---- YGCCCCCTGRCA	
MA0341.1_MSN2	9.5632e-05	CCCCCA CCCCCT—	
MA0362.1_RDS2	1.3318e-04	CCCCCA— CCCCGAN	

M7

*forward**reverse compliment*

Name	E value	Alignment	Motif
MA0436.1_YPR022C	2.1694e-09	—GTGGGG NGTGGGG	

## Stamp Results

12/18/13

MA0268.1\_ADR1 5.2022e-09

GTGGGG-  
KTGGGGN

MA0339.1\_MIG3 5.1127e-07

-GTGGGG  
NGYGGGG

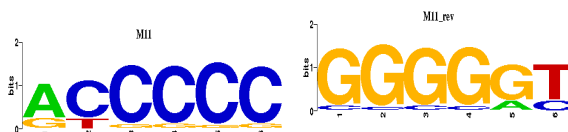
MA0337.1\_MIG1 5.7298e-07

GTGGGG-  
SYGGGGN

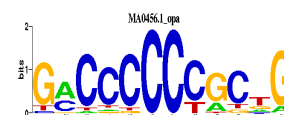
MA0338.1\_MIG2 1.0295e-06

-GTGGGG  
NGYGGGG

## M11

*forward**reverse complement**Name**E value**Alignment**Motif*

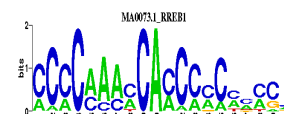
MA0456.1\_opa 2.0770e-06

-----GGGGGT-  
CNGCGGGGGGKC

MA0105.1\_NFKB1 3.0726e-05

-----ACCCCC  
GGGAATCCCC

MA0073.1\_RREB1 1.0377e-04

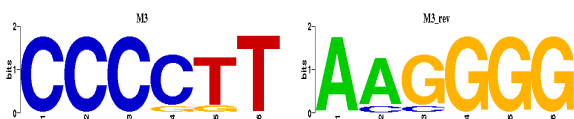
-----GGGGGT-----  
NGKKKGKGGGTGKTTTGGG

MA0016.1\_usp 1.2131e-04

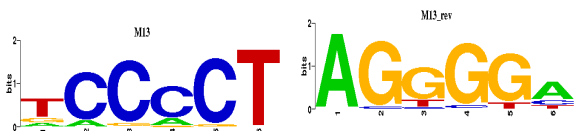
-----ACCCCC  
NNGTGACCCC-

MA0155.1\_INSM1 1.3509e-04

-ACCCCC-----  
YGCCCCCTGRCA

**M3***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0366.1_RGM1	1.5783e-07	CCCCTT CCCCT-	
MA0342.1_MSN4	1.9002e-07	CCCCTT CCCCT-	
MA0341.1_MSN2	6.0237e-07	AAGGGG -AGGGG	
MA0163.1_PLA1	9.9259e-07	-CCCCTT----- CCCCCTTNGGCCCC	
MA0364.1_REI1	7.2995e-06	-AAGGGG NCAGGGG	

**M13***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0342.1_MSN4	1.9302e-07	TCCCCT -CCCCT	
MA0366.1_RGM1	2.2461e-07	TCCCCT -CCCCT	

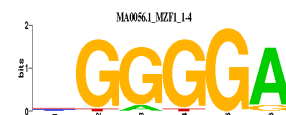
## Stamp Results

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MA0341.1\_MSN2 5.7879e-07

TCCCCT  
-CCCCT

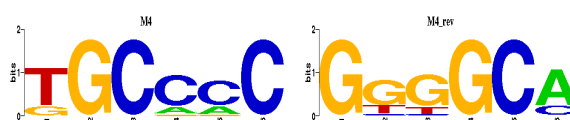
MA0056.1\_MZF1\_1-4 2.6974e-06

TCCCCT  
TCCCCN

MA0364.1\_REI1 8.5561e-06

TCCCCT--  
-CCCCTGN

## M4

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0123.1\_abi4

2.3191e-05

-GGGGCA---  
NGNNGCRSCG

MA0065.2\_PPARG\_RXRA 3.8132e-05

--GGGGCA-----  
NNRGGNCAAAGGKCA

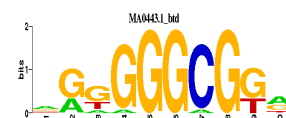
MA0155.1\_INSM1

8.1233e-05

TGCCCC-----  
YGCCCCCTGRCA

MA0443.1\_btd

2.2091e-04

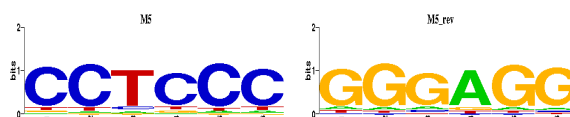
--TGCCCC--  
YCCGCCCMCN

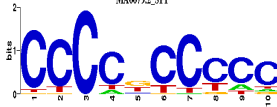
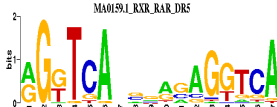
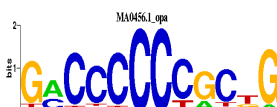


MA0039.2\_Klf4

2.8748e-04

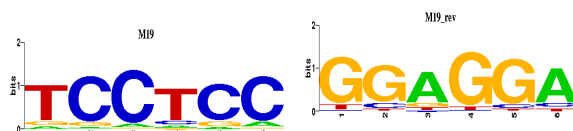
TGCCCC-----  
-GCCMCRCCCN




## M5



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	6.6034e-06	--CCTCCC-- CCCNCCCCC	MA0079.2_SP1 
MA0159.1_RXR_RAR_DR5	6.9379e-04	-----GGGAGG--- RGKTCANNNRNAGGTCA	MA0159.1_RXR_RAR_DR5 
MA0456.1_opa	9.4892e-04	----GGGAGG-- CNGCGGGGGGKC	MA0456.1_opa 
MA0056.1_MZF1_1-4	1.1891e-03	CCTCCC-- --TCCCN	MA0056.1_MZF1_1-4 
MA0443.1_btd	1.2196e-03	-CCTCCC-- YCCGCCCMCN	MA0443.1_btd 

## M19



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0090.1_TEAD1	1.0867e-05	-GGAGGA----- CNSWGAATGTR	MA0090.1_TEAD1 
MA0081.1_SPIB	6.3014e-05	-TCCTCC TTCKST	MA0081.1_SPIB 
MA0283.1_CHA4	9.5216e-04	--TCCTCC NCTCCGCC	MA0283.1_CHA4 



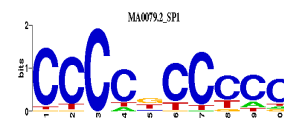
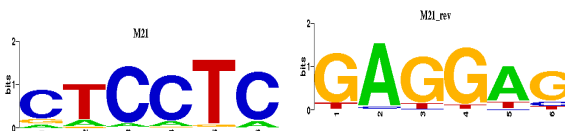
MA0062.1\_GABPA 1.4051e-03

---TCCTCC---  
 SNCTTCCGGT



MA0079.2\_SP1 2.0465e-03

----TCCTCC  
 CCCNCCCCC

**M21***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0081.1\_SPIB 6.9840e-05

CTCCTC-  
 TTCKST



MA0130.1\_ZNF354C 5.4164e-04

GAGGAG  
 GTGGAK



MA0283.1\_CHA4 6.1247e-04

-GAGGAG-  
 GCGGAGN



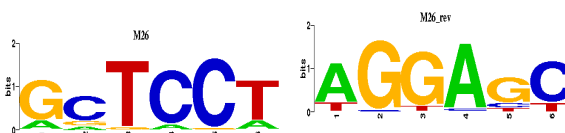
MA0062.1\_GABPA 1.6046e-03






CTCCTC----  
 SNCTTCCGGT

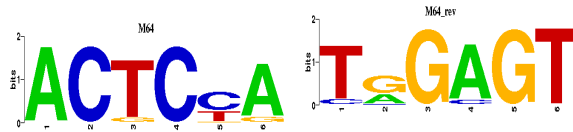



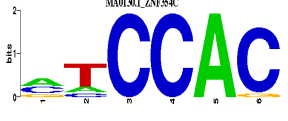
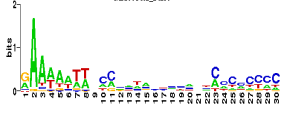

MA0090.1\_TEAD1 2.4555e-03

--GAGGAG----  
 CNSWGAATGTR

**M26***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0454.1_odd	9.6095e-04	--GCTCCT-- NTGCTACTGTN	
MA0366.1_RGM1	4.1761e-03	GCTCCT -CCCT	
MA0342.1_MSN4	4.5593e-03	GCTCCT -CCCT	
MA0080.2_SPI1	5.3059e-03	-GCTCCT ACTTCCT	
MA0430.1_YLR278C	7.1866e-03	-GCTCCT- AACTCCGN	

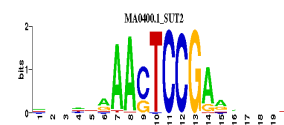
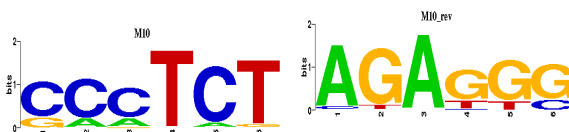
**M64***forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0430.1_YLR278C	6.9808e-05	-ACTCCA- AACTCCGN	
MA0130.1_ZNF354C	2.9175e-04	-TGGAGT GTGGAK-	
MA0068.1_Pax4	4.8593e-04	-----ACTCCA----- RAAWAWWWNNMNNNNNNNNNNNNMNNNNNYMC	
MA0312.1_HAP1	2.5286e-03	--ACTCCA NAWNTCCG	

MA0400.1\_SUT2

2.6944e-03

-----TGGAGT-----  
 NNNNNNTCGGAGTTNNNNN

**M10***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0081.1\_SPIB

2.9851e-04

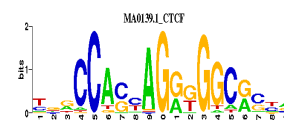
-CCCTCT  
 TTCKST



MA0139.1\_CTCF

3.5785e-04

-----CCCTCT-----  
 NNSYGCCMCCTRSTGGNNR



MA0366.1\_RGM1

6.6655e-04

-CCCTCT  
 CCCCT--



MA0342.1\_MSN4

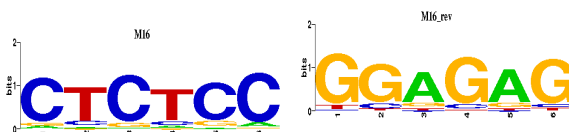
7.4637e-04

AGAGGG-  
 --AGGGG



MA0057.1\_MZF1\_5-13 8.9694e-04

----CCCTCT  
 NTNCCCCTMN

**M16***forward**reverse compliment**Name**E value**Alignment**Motif*

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MA0354.1\_PDR8 2.1250e-05

CTCTCC--  
ATCTCCGN



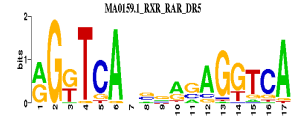
MA0432.1\_YNR063W 2.5104e-05

CTCTCC--  
ATCTCCGA



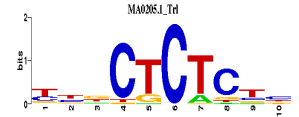
MA0159.1\_RXR\_RAR\_DR5 9.6365e-05

---CTCTCC-----  
TGACCTNYNNNTGAMCY



MA0205.1\_Trl 1.3171e-04

-GGAGAG---  
NNGAGAGNNR

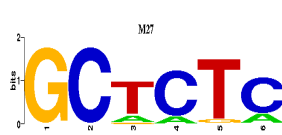


MA0312.1\_HAP1 2.1998e-04

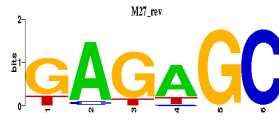
-CTCTCC-  
NAWNTCCG



**M27**



*forward*



*reverse compliment*

*Name*

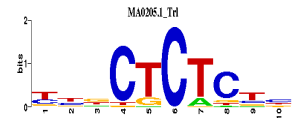
*E value*

*Alignment*

*Motif*

MA0205.1\_Trl 1.7141e-04

--GCTCTC--  
YNNCTCTCNN



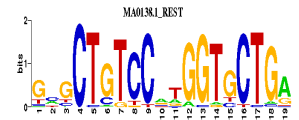
MA0451.1\_kni 6.9473e-04

--GCTCTC----  
NTGCTCTANTTT



MA0138.1\_REST 3.0023e-03

-----GAGAGC--  
TCAGCACCWNGGACAGCNC



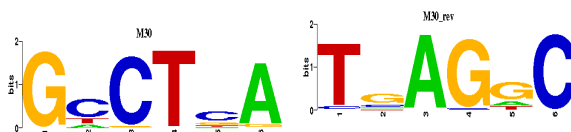
MA0037.1\_GATA3 4.0750e-03

GCTCTC-  
-YTATCN

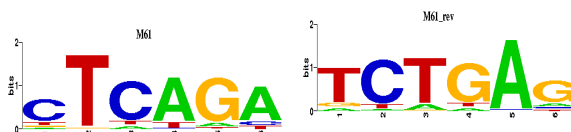


MA0298.1\_FZF1 4.1969e-03

—GAGAGC  
TGATAG—

**M30***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0099.2_API	3.3770e-05	TNAGGC— TGAGTCA	
MA0334.1_MET32	8.7683e-05	TNAGGC— TGTGCCN	
MA0099.1_Fos	7.0324e-04	—GCCTNA— TGANTCAC	
MA0394.1_STP1	2.2563e-03	--GCCTNA NMGCCGCR	
MA0150.1_NFE2L2	2.3425e-03	--GCCTNA--- RTGACWNAGCA	

**M61***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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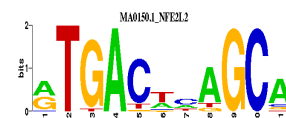
MA0432.1\_YNR063W 2.4699e-04

--CTCAGA  
ATCTCCGA



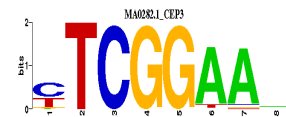
MA0150.1\_NFE2L2 4.0368e-04

-TCTGAG----  
TGCTNWTGTCAY



MA0282.1\_CEP3 6.7756e-04

--TCTGAG  
NTTCCGAR



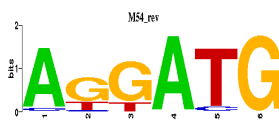
MA0314.1\_HAP3 2.2430e-03

-----CTCAGA  
NYYNRRCCAATSAGA



MA0316.1\_HAP5 2.8318e-03

----CTCAGA-----  
ACCAATNAGMNNSSN

**M54***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0460.1\_ttk

8.2802e-05

-AGGATG--  
MAGGATAAY



MA0080.2\_SPI1

2.3176e-04

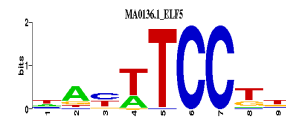
-CATCCT  
ACTTCCT



MA0136.1\_ELF5

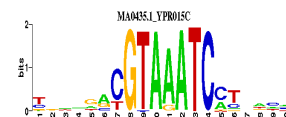
3.3468e-04

-AGGATG--  
NMGGAARTN



MA0435.1\_YPR015C 1.3115e-03

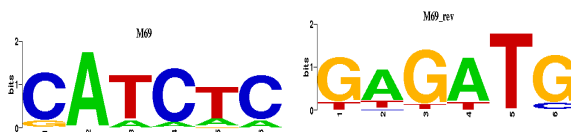
----AGGATG-----  
NNNNAKGATTACGNNNNNN



MA0035.1\_Gata1

1.8726e-03

-CATCCT  
NNATCN-

**M69***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0354.1\_PDR8

3.0660e-05

---GAGATG  
NCGGAGAT-



MA0432.1\_YNR063W

6.0731e-05

---GAGATG  
TCGGAGAT-



MA0312.1\_HAP1

1.6858e-04

CATCTC--  
NAWNTCCG



MA0091.1\_TAL1\_TCF3

4.8592e-04

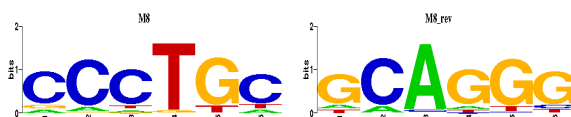
--GAGATG----  
AMCAGATGKTNN



MA0422.1\_YDR520C

5.5989e-04

---GAGATG-  
NCGGANWTAN

**M8***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0364.1\_REI1 7.1451e-06

GCAGGG--  
NCAGGGG

MA0344.1\_NHP10 1.8106e-04

--CCCTGC  
TCCCCGN

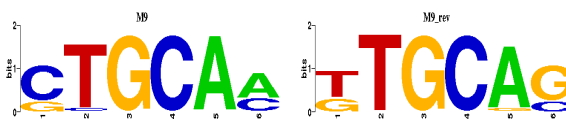
MA0366.1\_RGM1 3.8949e-04

-CCCTGC  
CCCCT--

MA0342.1\_MSN4 4.4537e-04

-CCCTGC  
CCCCT--

MA0079.1\_SP1 4.5882e-04

-CCCTGC---  
ACCCNGCCNN**M9***forward**reverse complement**Name**E value**Alignment**Motif*

MA0244.1\_slbo

9.0612e-05

-TTGCAG-  
TKNGYAAT

MA0019.1\_Ddit3\_Cebpa 3.6168e-04

----TTGCAG--  
GSNATTGCAYNN

MA0453.1\_nub

9.5218e-04

-----TTGCAG-  
NTNATTTGCATA

MA0269.1\_AFT1

1.0786e-03

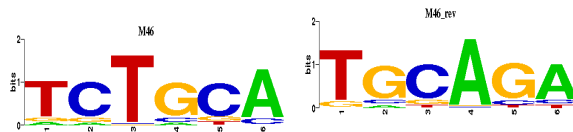
-----CTGCAA-----  
NNNNNNGGGTGCAMTANNNNN

MA0385.1\_SOK2

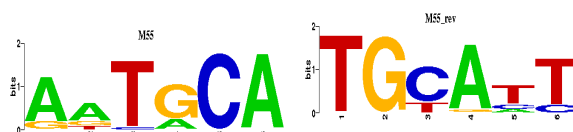
1.3670e-03

---CTGCAA--  
NNNMTGCAKNN



**M46***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0385.1_SOK2	6.9607e-04	--TCTGCA--- NNNMTGCAKNN	
MA0254.1_vv1	9.4275e-04	TGCAGA TGMATA	
MA0244.1_slbo	9.6327e-04	TCTGCA-- TKNGYAAT	
MA0142.1_Pou5f1	1.2879e-03	-TCTGCA----- ATTGTCATNACAAG	
MA0143.1_Sox2	1.7203e-03	TCTGCA----- TNTGTCATNACAAWGG	

**M55***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0254.1_vv1	1.0196e-04	AATGCA TATKCA	

MA0244.1\_slbo 3.2904e-04

--TGCATT  
TKNGYAAT



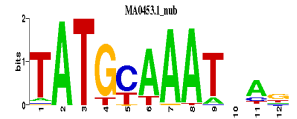
MA0045.1\_HMG-I\_Y 6.1542e-04

-----TGCATT-----  
RTTYKYNNTTTNTNN



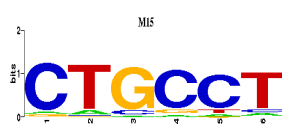
MA0453.1\_nub 7.1391e-04

AATGCA-----  
TATGCAAATNAN



MA0142.1\_Pou5f1 7.7582e-04

---TGCATT-----  
ATTGTCATNACAAWG

**M15***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0340.1\_MOT3 3.0546e-05

CTGCCT-  
-TRCCTN



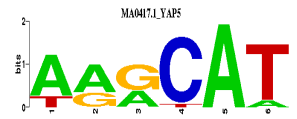
MA0080.2\_SPI1 1.5822e-04

AGGCAG-  
AGGAAGT



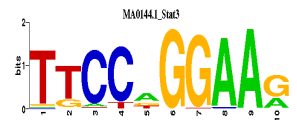
MA0417.1\_YAP5 1.3325e-03

CTGCCT  
ATGCTT



MA0144.1\_Stat3 2.3320e-03

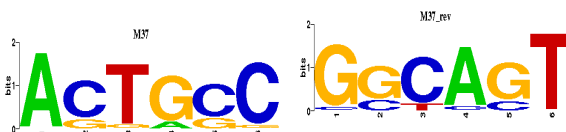
CTGCCT----  
CTTCNGGAA



MA0055.1\_Myf 3.2327e-03

-----CTGCCT  
CAGCAGYTGCYK



**M37***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0100.1\_Myb

1.0978e-04

--ACTGCC  
CAACNGYC



MA0080.2\_SPI1

2.6123e-04

-GGCAGT  
AGGAAGT



MA0076.1\_ELK4

2.3874e-03

ACTGCC--  
ACTTCCGGT



MA0062.2\_GABPA

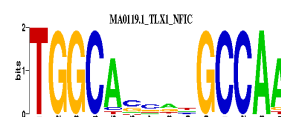
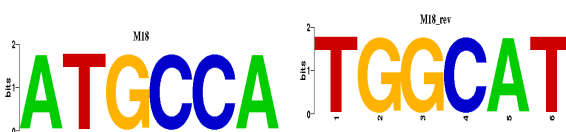
2.9533e-03

--GGCAGT--  
CCGGAAGTGNN



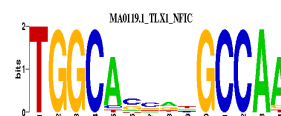
MA0119.1\_TLX1\_NFIC 7.0933e-03

-GGCAGT-----  
TGGCASNNGCCAA

**M18***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0119.1\_TLX1\_NFIC 1.8344e-06

-TGGCAT-----  
TTGGCNNNSTGCCA



MA0365.1\_RFX1

5.3778e-04

TGGCAT--  
TRGCAACN



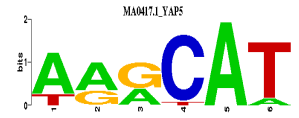
## Stamp Results

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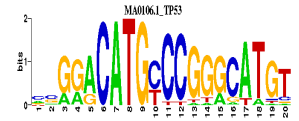
MA0092.1\_Hand1\_T 7.0869e-04

ATGCCA----  
NWNCCAGAYN

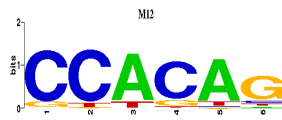
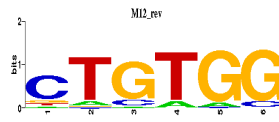
MA0417.1\_YAP5 1.1095e-03

ATGCCA  
ATGCTT

MA0106.1\_TP53 1.2181e-03

--ATGCCA-----  
ACATGCCCGGGCATGTCCNN

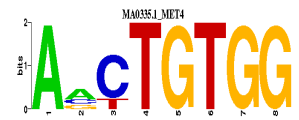
## M12

*forward**reverse compliment**Name**E value**Alignment**Motif*

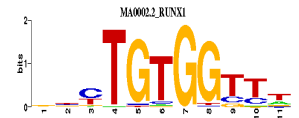
MA0332.1\_MET28 5.6675e-11

CCACAG  
CCACAG

MA0335.1\_MET4 7.0577e-09

CCACAG--  
CCACAGNT

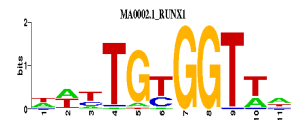
MA0002.2\_RUNX1 2.6917e-07

--CTGTGG---  
NNYTGTGGTTN

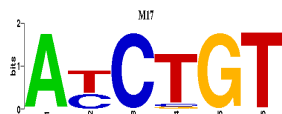
MA0334.1\_MET32 8.6281e-06

CTGTGG--  
-TGTGGCN

MA0002.1\_RUNX1 2.4282e-04

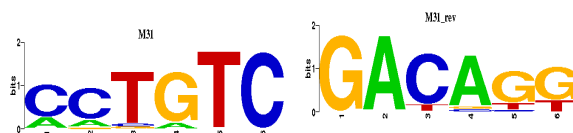
--CTGTGG---  
WWYTGTGGTTN

## M17



*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0091.1_TAL1_TCF3	5.7549e-05	-----AYCTGT- NNAMCATCTGKT	
MA0086.1_sna	9.4720e-05	-AYCTGT CACCTG-	
MA0140.1_Tal1_Gata1	4.3625e-04	---AYCTGT----- NTTATCTNNNNNNNNNCNN	
MA0332.1_MET28	1.1284e-03	--ACAGRT CCACAG--	
MA0207.1_achi	1.3305e-03	AYCTGT-- --CTGTCA	

**M31***forward**reverse compliment*

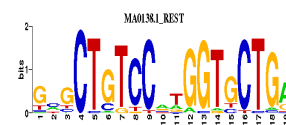
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0207.1_achi	1.4047e-06	CCTGTC- -CTGTCA	
MA0227.1_hth	1.6788e-06	CCTGTC- -CTGTCA	

## Stamp Results

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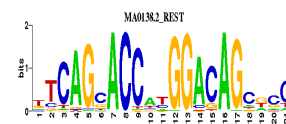
MA0138.1\_REST 8.2216e-04

-----GACAGG--  
TCAGCACCWNGGACAGCNC



MA0138.2\_REST 1.1167e-03

---CCTGTC-----  
GNNGCTGTCCNNGGTGCTGAN



MA0252.1\_vis 1.1764e-03

CCTGTC-  
-NTGTCA



## M39

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0454.1\_odd

6.5444e-07

-----ACTGTT  
NTGCTACTGTN



MA0335.1\_MET4

1.6541e-04

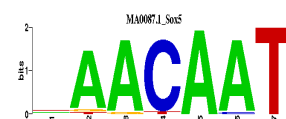
-AACAGT-  
CCACAGNT



MA0087.1\_Sox5

2.3377e-04

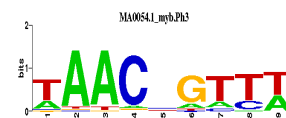
ACTGTT-  
ATTGTTN



MA0054.1\_myb.Ph3

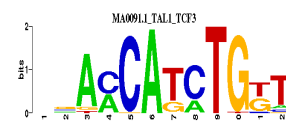
3.6716e-04

-AACAGT-  
WAACNGTTA

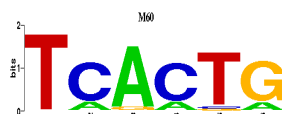


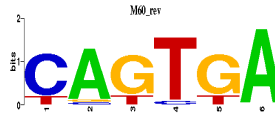
MA0091.1\_TAL1\_TCF3 3.9054e-04

-----ACTGTT  
NNAMCATCTGKT

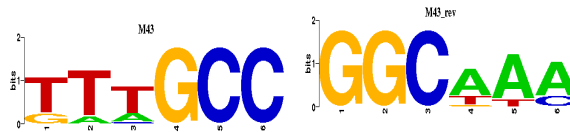


## M60

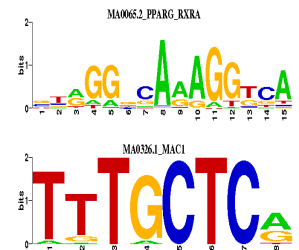


*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0014.1_Pax5	4.9553e-04	-----CAGTGA--- YSGYYMCGCWNCRNNNNNCN	MA0014.1_Pax5
MA0390.1_STB3	1.1950e-03	---CAGTGA----- NNNNANTGAAAAWTNNNNNN	MA0390.1_STB3
MA0265.1_ABF1	4.2268e-03	---TCACTG----- NNRTCNYNNNNNACGR	MA0265.1_ABF1
MA0050.1_IRF1	4.3619e-03	----TCACTG-- GGTTTCRNTTTN	MA0050.1_IRF1
MA0066.1_PPARG	4.8257e-03	-----CAGTGA----- ANTRGGTCACNNTGACCTAN	MA0066.1_PPARG

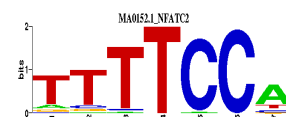
**M43***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.2_PPARG_RXRA	5.3182e-06	-----TTTGCC----- TGMCCTTTGNCCYNN	MA0065.2_PPARG_RXRA
MA0326.1_MAC1	4.4480e-05	--GGCAAA YGAGCAAA	MA0326.1_MAC1



MA0152.1\_NFATC2 1.4456e-04

—GGCAAA  
TGGAAAA



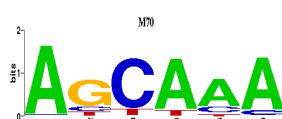
MA0114.1\_HNF4A 1.6036e-04

-----TTTGCC--  
TGNMCTTTGNNCY



MA0024.1\_E2F1 2.8098e-04

--GGCAAA  
GCGCSAAA

**M70***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0326.1\_MAC1 5.0979e-09

--AGCAAA  
YGAGCAAA



MA0446.1\_fkh 1.5237e-05

---AGCAAA--  
NTRNNYAAACA



MA0148.1\_FOXA1 1.5933e-05

---AGCAAA--  
NWRWGYAAACA



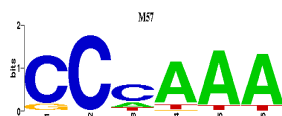
MA0287.1\_CUP2 2.9704e-05

----TTTGCT-  
CWTTTGTGCTG

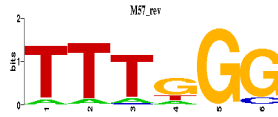


MA0453.1\_nub 3.1917e-04

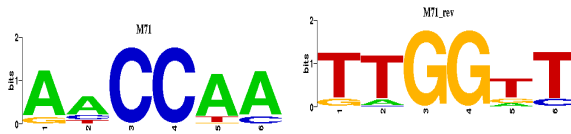
----TTTGCT--  
NTNATTGTCATA

**M57**



*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	2.8571e-05	-----TTTGGG- NGKKKGKGGGTGKTTTGGGG	
MA0372.1_RPH1	1.6897e-04	TTTGGG-- TTAGGGGN	
MA0331.1_MCM1	2.7008e-04	----TTTGGG-- CCNNWTTTRGGAA	
MA0024.1_E2F1	3.9559e-04	TTTGGG-- TTTSGCGC	
MA0313.1_HAP2	4.9367e-04	CCCAAA RCCAA-	

**M71***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0313.1_HAP2	2.1786e-05	AACCAA -RCCAA	
MA0193.1_Lag1	7.0010e-05	TTGGTT- TTGGTRG	

MA0235.1\_onecut 1.3667e-04

—AACCAA  
NAATCAA



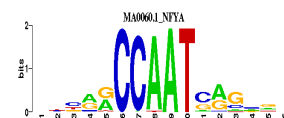
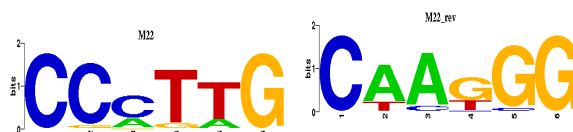
MA0388.1\_SPT23 1.4189e-04

TTGGTT--  
TTSATTTY



MA0060.1\_NFYA 1.8896e-04

-----TTGGTT--  
NNNCYSATTGGYYNNN

**M22***forward**reverse compliment**Name**E value**Alignment**Motif*

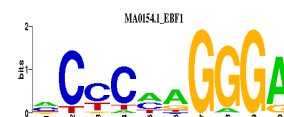
MA0163.1\_PLAG1 9.7485e-07

--CCCTTG-----  
CCCCCTTNGGCCCC



MA0154.1\_EBF1 1.9942e-06

—CCCTTG---  
TCCCTNGGGN



MA0077.1\_SOX9 1.0260e-04

---CAAGGG  
NAACAATRG



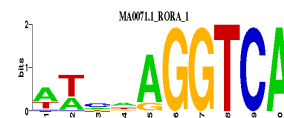
MA0364.1\_REI1 2.0388e-04

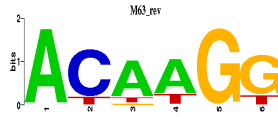
CCCTTG--  
CCCCTGN



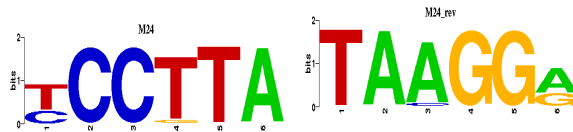
MA0071.1\_RORA\_1 3.1261e-04

--CCCTTG--  
TGACCTNNWW

**M63**

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0071.1_RORA_1	9.3046e-05	---CCTTGT- TGACCTNNWW	
MA0442.1_SOX10	2.8597e-04	ACAAGG ACAAGW	
MA0141.1_Esrrb	3.7096e-04	---CCTTGT--- TGACCTTGRNNN	
MA0078.1_Sox17	1.2954e-03	--CCTTGT- NNYATTGTS	
MA0154.1_EBF1	1.3688e-03	--CCTTGT-- TCCCTNGGGN	

**M24***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0186.1_Dfd	1.3801e-04	TCCTTA- TCATTAA	
MA0124.1_NKX3-1	1.6534e-04	TAAGGA- TAAGTAT	

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MA0370.1\_RME1 2.3236e-04

---TCCTTA---  
TNCCTTTNNA



MA0203.1\_Scr 2.3522e-04

TCCTTA-  
TCATTAR

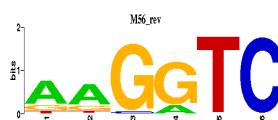


MA0215.1\_btn 3.5969e-04

TCCTTA-  
TCATTAN



## M56

*forward**reverse compliment*

Name

E value

Alignment

Motif

MA0160.1\_NR4A2

6.3908e-09

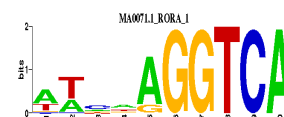
--GACCTT  
GTGACCTT



MA0071.1\_RORA\_1

7.7730e-08

-GACCTT---  
TGACCTNNWW



MA0141.1\_Esrrb

1.3351e-07

-----AAGGTC-  
NNNYCAAGGTCA



MA0115.1\_NR1H2\_RXRA 4.9747e-07

-AAGGTC-----  
AAAGGTCAAAGGTCAAS

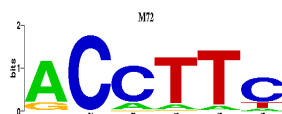


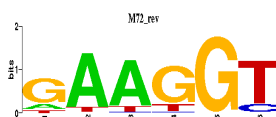
MA0065.1\_PPARG\_RXRA 1.0566e-06

-----AAGGTC-----  
NNNGRGGTCAAAGGTCAANN

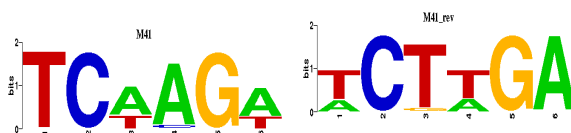


## M72



*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0160.1_NR4A2	4.5554e-05	---ACCTTC GTGACCTT-	MA0160.1_NR4A2 
MA0406.1_TEC1	1.2916e-04	ACCTTC-- RCATTCCN	MA0406.1_TEC1 
MA0141.1_Esrrb	2.3586e-04	--ACCTTC---- TGACCTTGRNN	MA0141.1_Esrrb 
MA0071.1_RORA_1	2.4034e-04	--ACCTTC-- TGACCTNNWW	MA0071.1_RORA_1 
MA0090.1_TEAD1	5.2993e-04	-----GAAGGT- CNSWGAATGTR	MA0090.1_TEAD1 

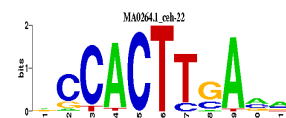
**M41***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0266.1_ABF2	4.2224e-06	TCAAGA- TCTAGAN	MA0266.1_ABF2 
MA0253.1_vnd	2.1661e-05	-TCTTGA-- YACTTGARA	MA0253.1_vnd 

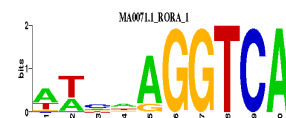
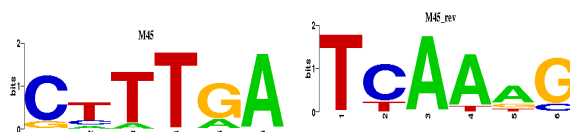
MA0247.1\_tin 3.1285e-05

-TCTTGA-  
CACTTGAR

MA0264.1\_ceh-22 2.2542e-04

---TCTTGA--  
NCCACTTGANN

MA0071.1\_RORA\_1 4.4698e-04

---TCTTGA-  
TGACCTNNWW**M45***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0115.1\_NR1H2\_RXRA 7.0161e-07

-----CTTTGA-----  
STTGACCTTTGACCTTT

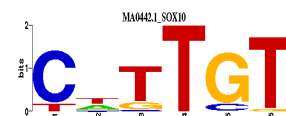
MA0065.1\_PPARG\_RXRA 1.3740e-06

-----CTTTGA-----  
NNNTGACCTTTGACCYCINN

MA0017.1\_NR2F1 2.5329e-06

----TCAAAG----  
NNGKNCAAAGKTCA

MA0442.1\_SOX10 2.4405e-05

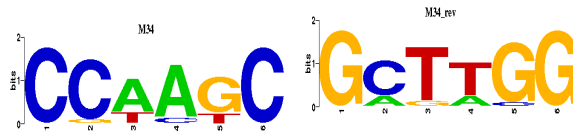
TCAAAG  
ACAAGW

MA0222.1\_exd 3.6965e-05

--TCAAAG  
TGTCAAAN**M25**

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0417.1_YAP5	8.2760e-05	GTGCTY ATGCTT	
MA0014.1_Pax5	4.7696e-04	-----GTGCTY- YSGYYMCGCWNCRNNNNNCN	
MA0138.1_REST	8.7335e-04	-RAGCAC----- TCAGCACCWNGGACAGCNC	
MA0138.2_REST	1.2845e-03	-----GTGCTY-- GNNGCTGTCCNNGGTGCTGAN	
MA0053.1_MNB1A	1.3170e-03	GTGCTY- --NCTTT	

**M34***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0368.1_RIM101	1.3287e-05	GCTTGG-- -CTTGGCR	
MA0313.1_HAP2	5.2408e-04	-CCAAGC RCCAA--	

MA0163.1\_PLAG1 7.9832e-04

---GCTTGG-----  
CCCCCTTNGGCCCC



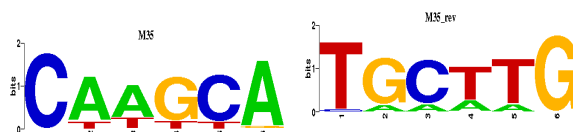
MA0315.1\_HAP4 9.1321e-04

-----GCTTGG--  
NNNNNNYTGATTGGN



MA0053.1\_MNB1A 1.0358e-03

GCTTGG  
NCTTT-

**M35***forward**reverse complement**Name**E value**Alignment**Motif*

MA0417.1\_YAP5 6.9903e-05

CAAGCA-  
-AAGCAT



MA0070.1\_PBX1 4.6749e-04

--TGCTTG----  
NTTGATTGATNN



MA0402.1\_SWI5 5.6622e-04

--CAAGCA  
NACCAGCA



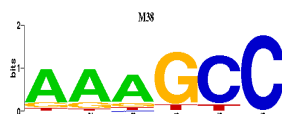
MA0053.1\_MNB1A 8.5911e-04

TGCTTG  
-NCTTT



MA0064.1\_PBF 9.0951e-04

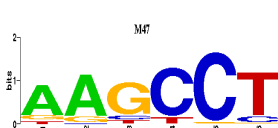
TGCTTG  
-RCTTT

**M38**



*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0053.1_MNB1A	2.7841e-07	GGCTTT -NCTTT	
MA0064.1_PBF	3.1761e-07	GGCTTT -RCTTT	
MA0290.1_DAL81	4.8183e-07	-----GGCTTT- AATCCCGCCCGCGGCTTTT	
MA0020.1_Dof2	1.3720e-06	GGCTTT NGCTTT	
MA0021.1_Dof3	2.4833e-06	GGCTTT NRCTTT	

**M47***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0304.1_GCR1	5.5870e-05	AGGCTT--- -GGCTTCCA	
MA0164.1_Nr2e3	9.5796e-05	AGGCTT- AAGCTTN	

## Stamp Results

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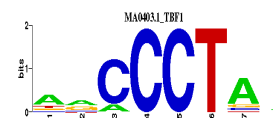
MA0260.1\_che-1 1.5901e-04

AGGCTT-  
-GGYTTC

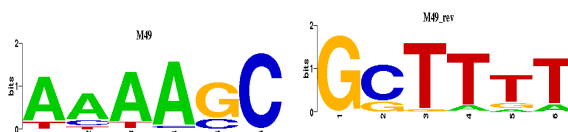
MA0417.1\_YAP5 3.0056e-04

AGGCTT  
ATGCTT

MA0403.1\_TBF1 5.5920e-04

--AGGCTT  
NTAGGGYT

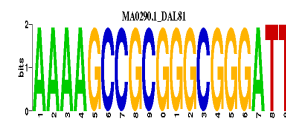
## M49

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0053.1\_MNB1A 4.3387e-07

GCTTTT  
NCTTT-

MA0290.1\_DAL81 6.5520e-07

AAAAGC-----  
AAAAGCCGCGGGCGGGATT

MA0064.1\_PBF 7.2371e-07

AAAAGC  
-AAAGY

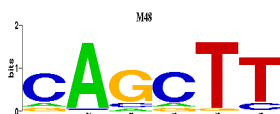
MA0020.1\_Dof2 1.5747e-06

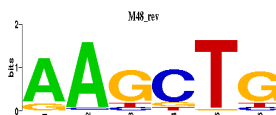
-GCTTTT  
NGCTTT-

MA0021.1\_Dof3 1.7657e-05

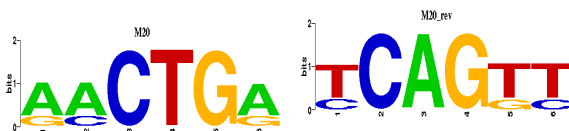
-GCTTTT  
NRCCTT-

## M48



*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0164.1_Nr2e3	7.9086e-06	AAGCTG- AAGCTTN	MA0164.1_Nr2e3 
MA0048.1_NHLH1	1.8584e-04	---CAGCTT--- NCGCAGCTGCGN	MA0048.1_NHLH1 
MA0053.1_MNB1A	8.5823e-04	CAGCTT- --NCTTT	MA0053.1_MNB1A 
MA0064.1_PBF	8.7831e-04	CAGCTT- --RCTTT	MA0064.1_PBF 
MA0020.1_Dof2	1.4652e-03	CAGCTT- -NGCTTT	MA0020.1_Dof2 

**M20***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0335.1_MET4	6.5289e-05	--TCAGTT CCACAGNT	MA0335.1_MET4 
MA0086.1_sna	1.9757e-03	-AACTGA CACCTG-	MA0086.1_sna 

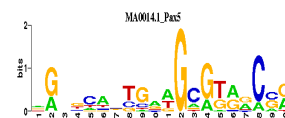
## Stamp Results

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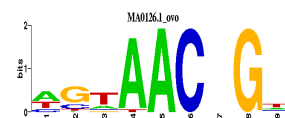
MA0100.1\_Myb 2.4779e-03

-AACTGA-  
CAACNGYC

MA0014.1\_Pax5 2.5215e-03

-----TCAGTT-----  
YSGYYMCGCWNCRNNNNNCN

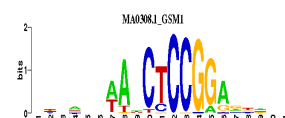
MA0126.1\_ovo 4.3666e-03

TCAGTT---  
NCNGTTACW

## M53

*forward**reverse compliment**Name**E value**Alignment**Motif*

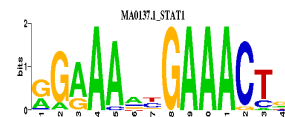
MA0308.1\_GSM1 2.0297e-05

-----AAAGTC-----  
NNNNNNWANCCTCCGGANNNNN

MA0430.1\_YLR278C 1.2074e-04

AAAGTC---  
-AACTCCGN

MA0137.1\_STAT1 6.3671e-04

-----AAAGTC  
RGAAANNGAAACTN

MA0271.1\_ARG80 7.1988e-04

AAAGTC  
WGACNC

MA0107.1\_RELA 8.4172e-04

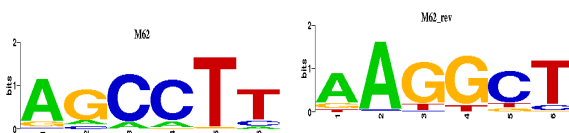
--AAAGTC--  
GGAAANTCCC

## M23



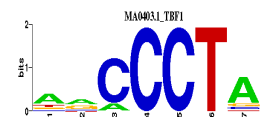
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0325.1_LYS14	5.9984e-05	AATTCT-- AATTCGN	
MA0437.1_YPR196W	7.1489e-04	---AGAATT CGGRNAAAT	
MA0110.1_ATHB-5	7.2794e-04	-AGAATT-- AATMATTGN	
MA0075.1_Prrx2	1.0391e-03	AGAATT -TAATT	
MA0008.1_HAT5	1.2025e-03	-AATTCT- NAATTATT	

**M62***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0452.1_Kr	1.9899e-03	--AGCCTT-- TAACCCYTTNN	
MA0340.1_MOT3	2.8535e-03	AGCCTT TRCCTN	

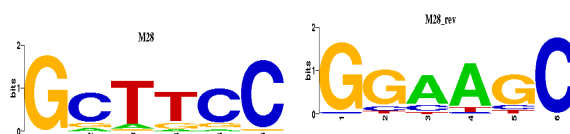
MA0403.1\_TBF1 4.6163e-03

--AAGGCT  
NTAGGGYT

MA0064.1\_PBF 7.2569e-03

AGCCTT  
-RCTTT

MA0053.1\_MNB1A 7.4631e-03

AAGGCT  
AAAGN-**M28***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0305.1\_GCR2 1.3984e-09

-GGAAGC  
NGGAAGC

MA0304.1\_GCR1 8.1212e-09

-GCTTCC-  
GGCTTCCA

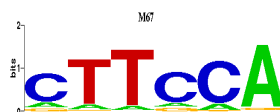
MA0080.1\_SPI1 2.6781e-06

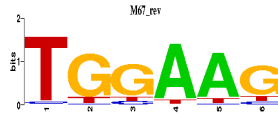
GCTTCC-  
-STTCN

MA0323.1\_IXR1 6.4601e-06

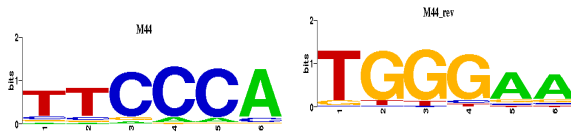
----GCTTCC----  
CMCCGCTTCCGGYTT

MA0080.2\_SPI1 1.2027e-05

GCTTCC-  
ACTTCCT**M67**

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0304.1_GCR1	1.1460e-08	--CTTCCA GGCTTCCA	
MA0080.1_SPI1	3.4227e-06	TGGAAG NGGAAS	
MA0305.1_GCR2	8.5562e-06	-CTTCCA GCTTCN	
MA0152.1_NFATC2	8.8141e-06	-CTTCCA TTTCCA	
MA0080.2_SPI1	1.2786e-05	-CTTCCA ACTTCCT	

**M44***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0085.1_Su_H_	7.5128e-07	---TGGGAA----- NYGTGGGAAMCNNNNN	
MA0088.1_znf143	5.5627e-06	-----TGGGAA--- KCNKGMANNMTGGGANNNN	

# Stamp Results

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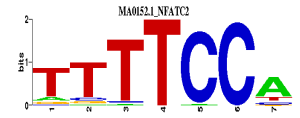
MA0331.1\_MCM1 1.9457e-05

TTCCCA-----  
TTCCYAAWNNGG



MA0152.1\_NFATC2 1.2150e-04

-TTCCCA  
TTTTCCA

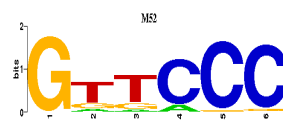


MA0391.1\_STB4 1.3364e-04

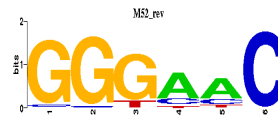
TTCCCA-  
TTCCGAR



## M52



*forward*



*reverse compliment*

*Name*

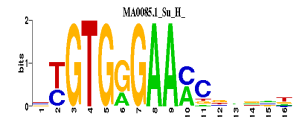
*E value*

*Alignment*

*Motif*

MA0085.1\_Su\_H\_ 2.5276e-05

-----GTTCCC-----  
NNNNNGKTTCCACRN



MA0420.1\_YBR239C 5.1659e-05

GTTCCC--  
GTTCCGRN



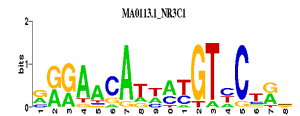
MA0105.1\_NFKB1 3.0649e-04

-GGGAAC-----  
GGGAATCCCC



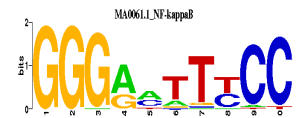
MA0113.1\_NR3C1 3.7364e-04

-----GTTCCC  
NYNGNACRKNNTGTTTCYN



MA0061.1\_NF-kappaB 5.9852e-04

----GTTCCC  
GGRAAKTCCC



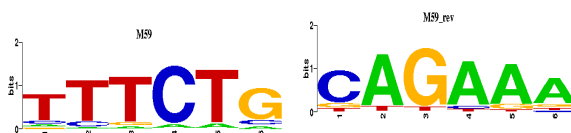
## M50





*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0121.1_ARR10	1.2575e-05	AGATTC-- AGATNYKN	
MA0406.1_TEC1	3.9408e-04	--GAATCT NGGAATGY	
MA0190.1_Gsc	8.1630e-04	AGATTC GGATTA	
MA0212.1_bcd	1.1546e-03	GAATCT TAATCC	
MA0234.1_oc	1.1602e-03	AGATTC GGATTA	

**M59***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0287.1_CUP2	2.1634e-05	--TTTCTG-- CWTTTYTGCTG	
MA0277.1_AZF1	7.4094e-05	TTTCTG-- TTTCTTTT	

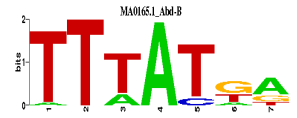
MA0438.1\_YRM1 2.4602e-04

—TTTCTG—  
ATNTCCGN



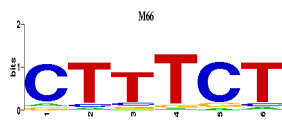
MA0165.1\_Abd-B 4.5600e-04

—CAGAAA  
TMATAAA



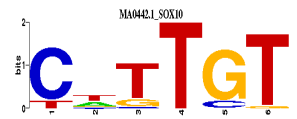
MA0156.1\_FEV 5.0724e-04

--TTTCTG  
AYTTCCTG

**M66***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0442.1\_SOX10 2.5289e-05

CTTTCT  
CWTGT



MA0277.1\_AZF1 5.9426e-05

CTTTCT----  
—TTTCTTTTT



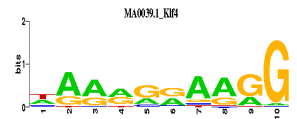
MA0080.2\_SPI1 7.1593e-05

—CTTTCT  
ACTTCCT



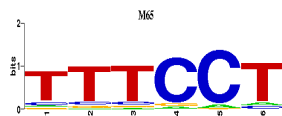
MA0039.1\_Klf4 1.4025e-04

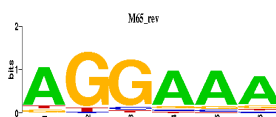
---AGAAAG—  
NAARRRAAGG



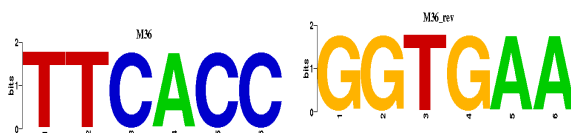
MA0053.1\_MNB1A 3.7999e-04

—CTTTCT  
NCTTT—

**M65**

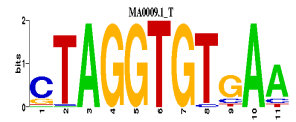
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0156.1_FEV	1.2491e-07	-TTTCCT- AYTTCCTG	
MA0136.1_ELF5	5.5404e-06	--TTTCCT- NAYTTCCKN	
MA0152.1_NFATC2	6.7526e-06	AGGAAA- TGGAAAA	
MA0080.2_SPI1	8.5983e-06	-TTTCCT ACTTCCT	
MA0438.1_YRM1	1.8953e-05	-TTTCCT- ATNTCCGN	

**M36***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0322.1_INO4	4.6619e-05	---GGTGAA GCATGTGAA	
MA0321.1_INO2	4.9456e-05	---GGTGAA GCATGTGAA	

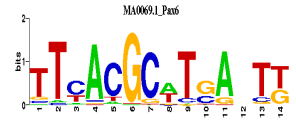
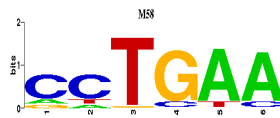
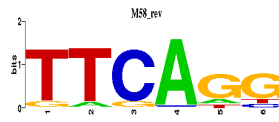
MA0009.1\_T 1.3438e-04

-----GGTGAA  
CTAGGTGTGAA

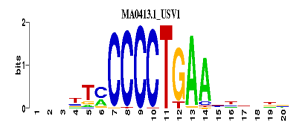
MA0421.1\_YDR026C 4.2553e-04

----GGTGAA  
NCCGGGTAAA

MA0069.1\_Pax6 4.7499e-04

-----GGTGAA  
MANTSAWGC GTGAA**M58***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0413.1\_USV1 1.0797e-06

-----TTCAGG-----  
NNNNNNTTCAGGGGKANNNN

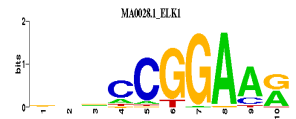
MA0026.1\_Eip74EF 1.1115e-04

-TTCAGG  
YTTCCGG

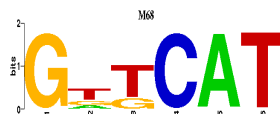
MA0274.1\_ARR1 1.2019e-04

-TTCAGG-  
ATTCARNT

MA0028.1\_ELK1 2.7133e-04

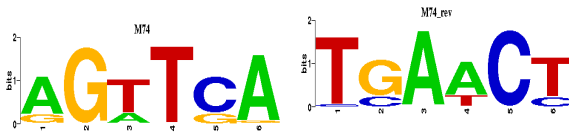
---CCTGAA-  
NNNCCGGAAR

MA0076.1\_ELK4 5.1737e-04

-CCTGAA--  
ACCGGAAGT**M68**

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0218.1_ct	4.5457e-05	GNTCAT GTTYAA	MA0218.1_ct 
MA0159.1_RXR_RAR_DR5	2.7064e-04	-----ATGANC- TGACCTNYYNNNTGAMCY	MA0159.1_RXR_RAR_DR5 
MA0074.1_RXRA_VDR	1.3307e-03	ATGANC----- -TGAACYCNNTGACCC	MA0074.1_RXRA_VDR 
MA0089.1_NFE2L1_MafG	1.6363e-03	GNTCAT- -GTCATN	MA0089.1_NFE2L1_MafG 
MA0017.1_NR2F1	1.7731e-03	--GNTCAT----- NNGKNCAAAGKTCA	MA0017.1_NR2F1 

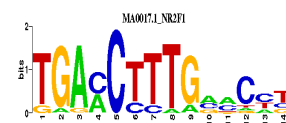
**M74***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0074.1_RXRA_VDR	5.1634e-06	TGAACT----- TGAACYCNNTGACCC	MA0074.1_RXRA_VDR 
MA0218.1_ct	3.8122e-05	-TGAAC TTRAAC-	MA0218.1_ct 

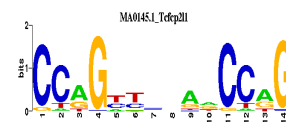
## Stamp Results

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MA0017.1\_NR2F1 5.4643e-05

-----AGTTCA  
NNGKNCAAAGKTCA

MA0145.1\_Tcfcp2l1 6.4705e-05

--AGTTCA-----  
CCRGNYNNANCCRG

MA0114.1\_HNF4A 2.3211e-04

TGAACT-----  
TGNMCTTTGNNCY

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