

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

Input file: 73 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](#)

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## Multiple Alignment

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

```

M0 :          ----TTTTTTTT--
M1 :          ----TTTAAAAA--
M2 :          ----CCTCCTCC--
M3 :          --TGTGTGTG---
M4 :          ----CTCCCTCC--
M5 :          --GGGCTGGG---
M6 :          ----CTTTCTCT--
M7 :          ----TTTCTTTC--
M8 :          ---CTTTTCTT--
M9 :          ---CCTTCCC--
M10 :         ---GGCTGGGG--
M11 :         --TTTCTTCT---
M12 :         --GCCCGCC---
M13 :         --TCTTTTCT---
M14 :         ----TTTTCCTT--
M15 :         ---CTCTGCCT--
M16 :         ----CTGCTCTG--
M17 :         GGAGGCTG-----
M18 :         --CCTCTCCC---
M19 :         ---CTCTGCAG--
M20 :         ----CCTGGGCT--
M21 :         ----CCTTCCTT--
M22 :         ---GGCGGCGG--

```

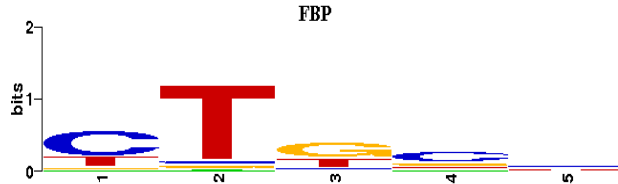
## Stamp Results

10/01/13

M23: ----CCTTCCCC-  
M24: ---CTCTTCCT--  
M25: -CTGCCTGC----  
M26: -CTTCCTTC----  
M27: -----CTGCCTCT  
M28: -----TTGTTTTG  
M29: ---CCTTTCCT--  
M30: --CTTTTTCT---  
M31: -----CTGGGGAG  
M32: ----TTGTTTTG-  
M33: --TTCCTCCT---  
M34: CTTTCCTG-----  
M35: ----CTTTCCCA-  
M36: CTCCTCCTG-----  
M37: -----CTCCCCCT  
M38: --GTTTTGTT---  
M39: ----TCTTCTTT-  
M40: -----CTGTCTCC  
M41: ---ATTTGCAT--  
M42: ATTTATTT-----  
M43: -----CTGTCCCT  
M44: ----CTTTCCTC-  
M45: -GGGTGTGG----  
M46: ---TTTTAAT--  
M47: AAATATTT-----  
M48: ---GGCTTCTG--  
M49: --GCTCTGGC---  
M50: -----CTTCCCAC  
M51: -----CTGAGGAA  
M52: ---CTCTGCCA--  
M53: -----CTGAGCTC  
M54: ----CCTCCTTT-  
M55: ----TCTGGGTG-  
M56: -GTCCCTGC----  
M57: -----CTGAAAGG  
M58: ---CTCTGGAA--  
M59: ---GGCTTTGT--  
M60: ----TTTTCCCC-  
M61: --CTTCTGCC---  
M62: ---TTCTGGGA--  
M63: ---TCCTGAGC--  
M64: GGACTCTG-----  
M65: -----CTGTTTCCT

M66: CTCACCTG-----  
 M67: --GGGTGGA---  
 M68: ----CTGACCT-  
 M69: --AAGTTTCT---  
 M70: AGTTCCTG-----  
 M71: --TGCTGGA---  
 M72: --CGCCTGCG---

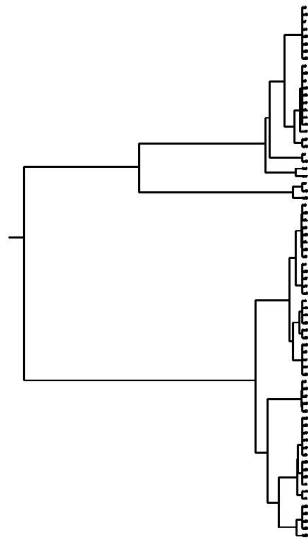
**Familial Profile:**  
[\(click for matrix\)](#)



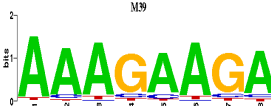

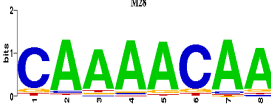

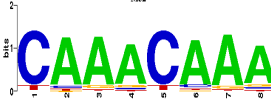
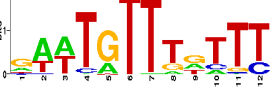
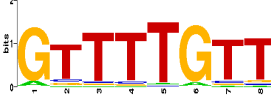
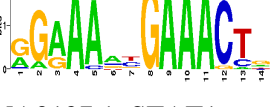
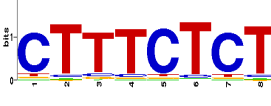

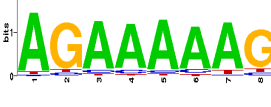



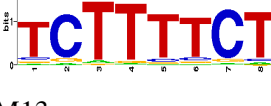

## Motif Tree

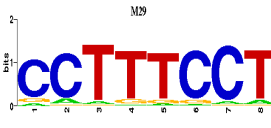
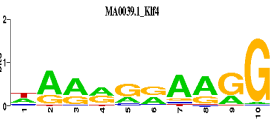
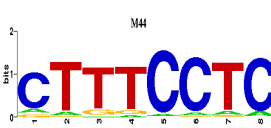
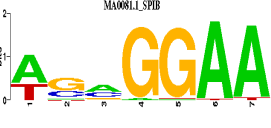
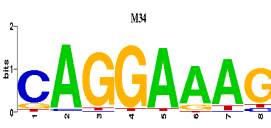

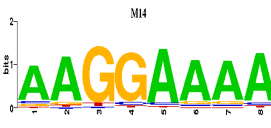
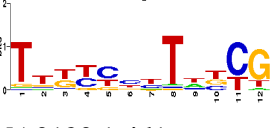
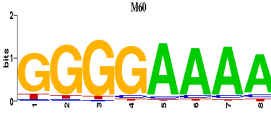
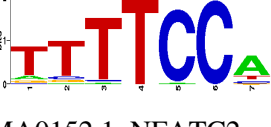
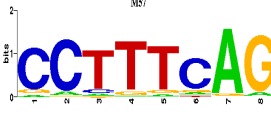
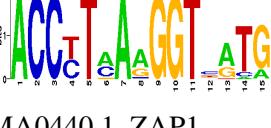




Tree (drawn by [Phylip](#))

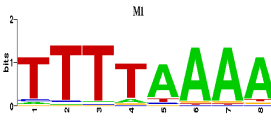

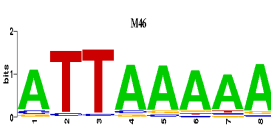

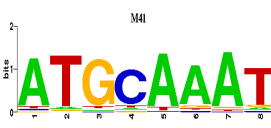

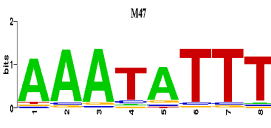

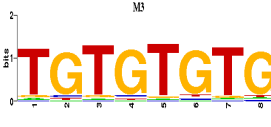

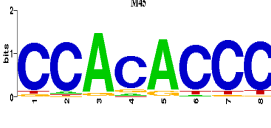


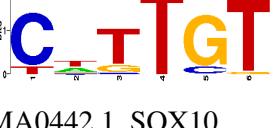
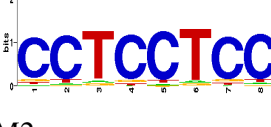
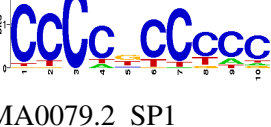
[Click here for Newick-format tree \(viewable with MEGA\)](#)

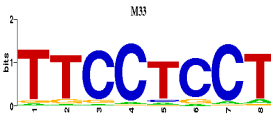
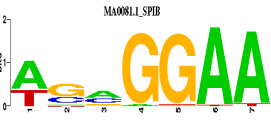
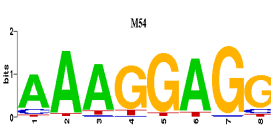

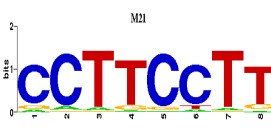
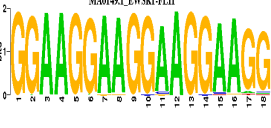
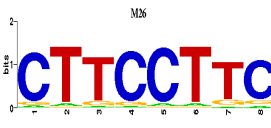

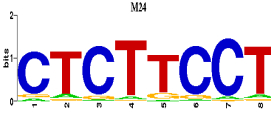

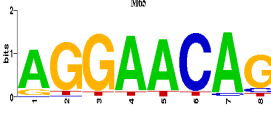
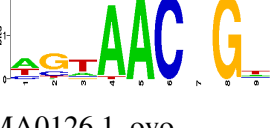
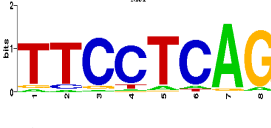

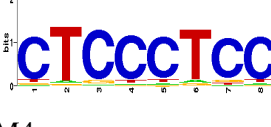



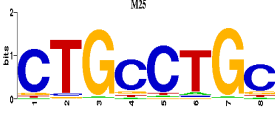

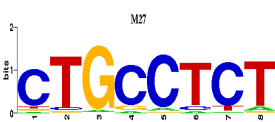
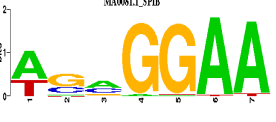
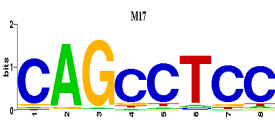

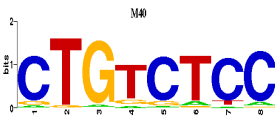

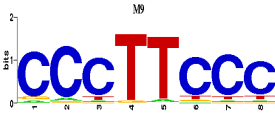
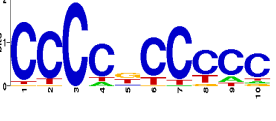
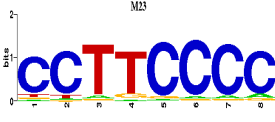
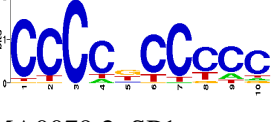
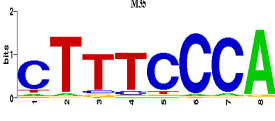
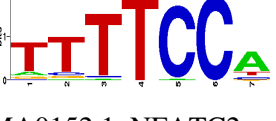
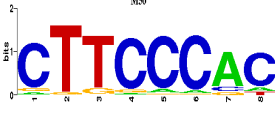
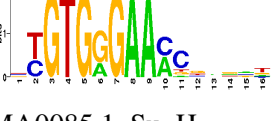
|            | Input Motif | Best match in JASPAR                  |
|------------|-------------|---------------------------------------|
| <b>M0</b>  |             | MA0277.1_AZF1<br>(E val: 6.3763e-08)  |
| <b>M42</b> |             | MA0042.1_FOXI1<br>(E val: 2.3159e-07) |
| <b>M7</b>  |             | MA0277.1_AZF1<br>(E val: 4.7405e-09)  |
| <b>M11</b> |             | MA0277.1_AZF1<br>(E val: 9.9042e-08)  |

|                                                                                                                   |                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>M39</p>  <p><b>M39</b></p>   | <p>MA0277.1_AZF1</p>  <p><b>MA0277.1_AZF1</b><br/>(E val: 8.7294e-06)</p>   |
| <p>M28</p>  <p><b>M28</b></p>   | <p>MA00445.1_D</p>  <p><b>MA00445.1_D</b><br/>(E val: 2.2104e-06)</p>       |
| <p>M32</p>  <p><b>M32</b></p>   | <p>MA0041.1_Foxd3</p>  <p><b>MA0041.1_Foxd3</b><br/>(E val: 8.4884e-07)</p> |
| <p>M38</p>  <p><b>M38</b></p>   | <p>MA0137.1_STAT1</p>  <p><b>MA0137.1_STAT1</b><br/>(E val: 2.3407e-05)</p> |
| <p>M6</p>  <p><b>M6</b></p>   | <p>MA0039.1_Klf4</p>  <p><b>MA0039.1_Klf4</b><br/>(E val: 4.2486e-06)</p> |
| <p>M30</p>  <p><b>M30</b></p> | <p>MA0277.1_AZF1</p>  <p><b>MA0277.1_AZF1</b><br/>(E val: 9.1034e-06)</p> |
| <p>M8</p>  <p><b>M8</b></p>   | <p>MA0277.1_AZF1</p>  <p><b>MA0277.1_AZF1</b><br/>(E val: 7.7419e-06)</p> |
| <p>M13</p>  <p><b>M13</b></p> | <p>MA0029.1_Evi1</p>  <p><b>MA0029.1_Evi1</b><br/>(E val: 5.8901e-06)</p> |
| <p></p>                                                                                                           | <p></p>                                                                                                                                                        |

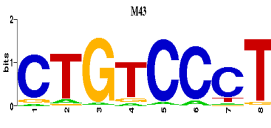
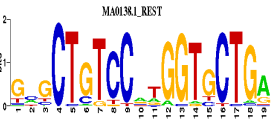
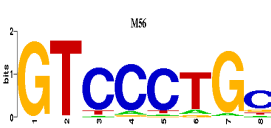

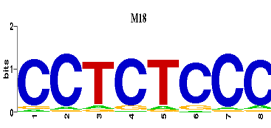
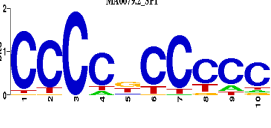
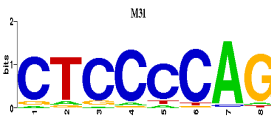

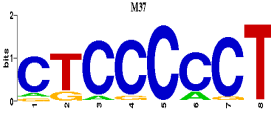
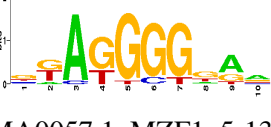
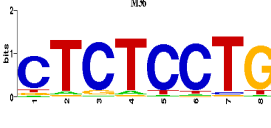

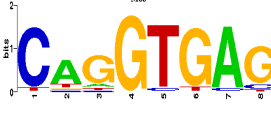

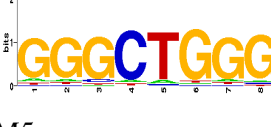
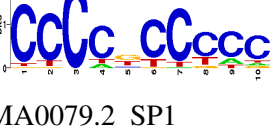
|                                                                                                                        |                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <p>M29</p>  <p><b>CCTTTCCT</b></p>   | <p>MA0039.1_Klf4</p>  <p>(E val: 9.2885e-07)</p>    |
| <p>M44</p>  <p><b>cTTTCCTC</b></p>   | <p>MA0081.1_SPIB</p>  <p>(E val: 2.3525e-06)</p>    |
| <p>M34</p>  <p><b>CAGGAAG</b></p>    | <p>MA0156.1_FEV</p>  <p>(E val: 1.8958e-08)</p>     |
| <p>M14</p>  <p><b>AAGGAAA</b></p>    | <p>MA0120.1_id1</p>  <p>(E val: 8.8880e-08)</p>     |
| <p>M60</p>  <p><b>GGGGAAA</b></p>   | <p>MA0152.1_NFATC2</p>  <p>(E val: 1.6200e-07)</p> |
| <p>M57</p>  <p><b>CCTTTCAG</b></p> | <p>MA0440.1_ZAP1</p>  <p>(E val: 1.3391e-04)</p>  |
| <p>M69</p>  <p><b>AAGTTTCT</b></p> | <p>MA0137.1_STAT1</p>  <p>(E val: 1.2286e-04)</p> |
| <p>M70</p>  <p><b>CAGGAACT</b></p> | <p>MA0156.1_FEV</p>  <p>(E val: 1.9906e-07)</p>   |
|                                                                                                                        |                                                                                                                                        |

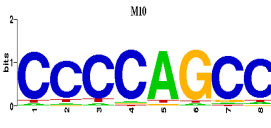

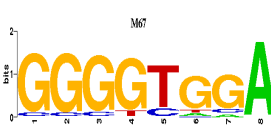
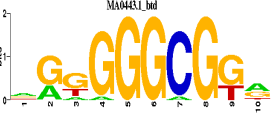
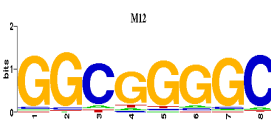

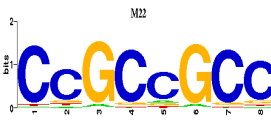

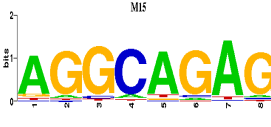

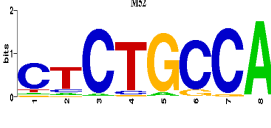

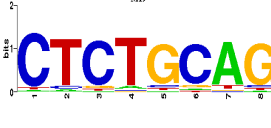

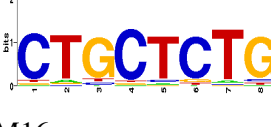

|                                                                                                        |                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>M1</b></p>    |  <p><b>MA0151.1_ARID3A</b><br/>(E val: 7.0631e-05)</p>  |
|  <p><b>M46</b></p>   |  <p><b>MA0151.1_ARID3A</b><br/>(E val: 1.8531e-08)</p>  |
|  <p><b>M41</b></p>   |  <p><b>MA0453.1_nub</b><br/>(E val: 2.6303e-11)</p>     |
|  <p><b>M47</b></p>   |  <p><b>MA0153.1_HNF1B</b><br/>(E val: 1.7194e-06)</p>   |
|  <p><b>M3</b></p>   |  <p><b>MA0009.1_T</b><br/>(E val: 1.0678e-03)</p>      |
|  <p><b>M45</b></p> |  <p><b>MA0039.2_Klf4</b><br/>(E val: 1.1836e-09)</p>  |
|  <p><b>M59</b></p> |  <p><b>MA0442.1_SOX10</b><br/>(E val: 8.1154e-08)</p> |
|  <p><b>M2</b></p>  |  <p><b>MA0079.2_SP1</b><br/>(E val: 1.5063e-06)</p>   |
|                                                                                                        |                                                                                                                                            |

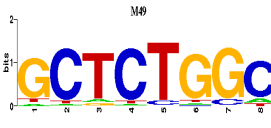
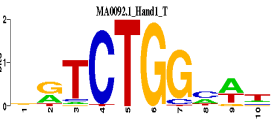

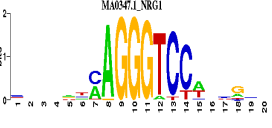
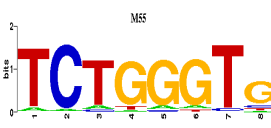

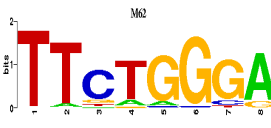
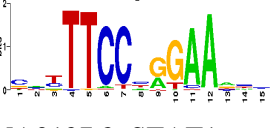
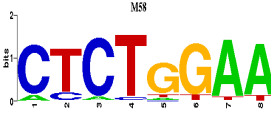
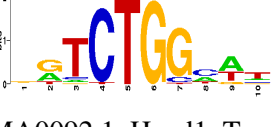
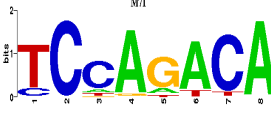

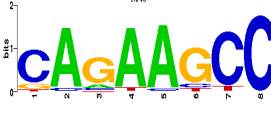
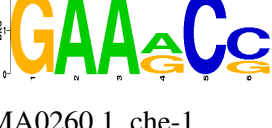
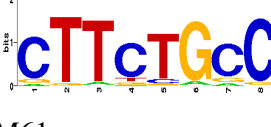
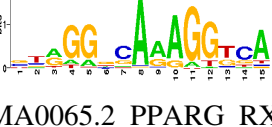
|                                                                                                        |                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>M33</b></p>   |  <p><b>MA0081.1_SPIB</b><br/>(E val: 1.4339e-06)</p>       |
|  <p><b>M54</b></p>   |  <p><b>MA0370.1_RME1</b><br/>(E val: 3.1380e-05)</p>       |
|  <p><b>M21</b></p>   |  <p><b>MA0149.1_EWSR1-FLI1</b><br/>(E val: 1.1154e-10)</p> |
|  <p><b>M26</b></p>   |  <p><b>MA0149.1_EWSR1-FLI1</b><br/>(E val: 1.1272e-10)</p> |
|  <p><b>M24</b></p>  |  <p><b>MA0062.1_GABPA</b><br/>(E val: 4.0856e-08)</p>     |
|  <p><b>M65</b></p> |  <p><b>MA0126.1_ovo</b><br/>(E val: 7.3187e-06)</p>      |
|  <p><b>M51</b></p> |  <p><b>MA0081.1_SPIB</b><br/>(E val: 3.8551e-07)</p>     |
|  <p><b>M4</b></p>  |  <p><b>MA0410.1_UGA3</b><br/>(E val: 2.9183e-05)</p>     |
|                                                                                                        |                                                                                                                                               |

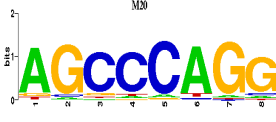

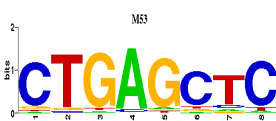

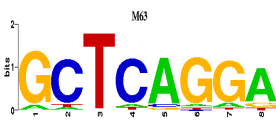

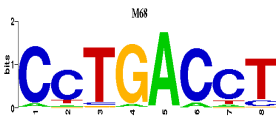
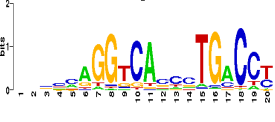
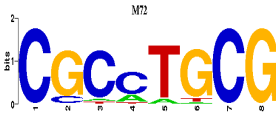
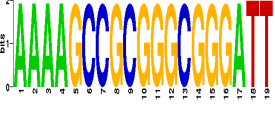
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|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>M25</b></p>   |  <p><b>MA0340.1_MOT3</b><br/>(E val: 2.6388e-05)</p>     |
|  <p><b>M27</b></p>   |  <p><b>MA0081.1_SPIB</b><br/>(E val: 7.1008e-05)</p>     |
|  <p><b>M17</b></p>   |  <p><b>MA0412.1_UME6</b><br/>(E val: 5.6801e-04)</p>     |
|  <p><b>M40</b></p>   |  <p><b>MA0207.1_achi</b><br/>(E val: 2.6733e-05)</p>     |
|  <p><b>M9</b></p>   |  <p><b>MA0079.2_SP1</b><br/>(E val: 2.6719e-06)</p>     |
|  <p><b>M23</b></p> |  <p><b>MA0079.2_SP1</b><br/>(E val: 5.9128e-06)</p>    |
|  <p><b>M35</b></p> |  <p><b>MA0152.1_NFATC2</b><br/>(E val: 1.7158e-06)</p> |
|  <p><b>M50</b></p> |  <p><b>MA0085.1_Su_H</b><br/>(E val: 6.9363e-07)</p>   |
|                                                                                                        |                                                                                                                                             |



|                                                                                                                   |                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>M43</p>  <p><b>M43</b></p>   | <p>MA0138.1_REST</p>  <p><b>MA0138.1_REST</b><br/>(E val: 2.5745e-05)</p>            |
| <p>M56</p>  <p><b>M56</b></p>   | <p>MA0364.1_REI1</p>  <p><b>MA0364.1_REI1</b><br/>(E val: 1.8664e-04)</p>            |
| <p>M18</p>  <p><b>M18</b></p>   | <p>MA0079.2_SP1</p>  <p><b>MA0079.2_SP1</b><br/>(E val: 1.3331e-05)</p>              |
| <p>M31</p>  <p><b>M31</b></p>   | <p>MA0344.1_NHP10</p>  <p><b>MA0344.1_NHP10</b><br/>(E val: 1.8009e-05)</p>          |
| <p>M37</p>  <p><b>M37</b></p>  | <p>MA0057.1_MZF1_5-13</p>  <p><b>MA0057.1_MZF1_5-13</b><br/>(E val: 2.3558e-07)</p> |
| <p>M36</p>  <p><b>M36</b></p> | <p>MA0086.1_sna</p>  <p><b>MA0086.1_sna</b><br/>(E val: 1.2610e-04)</p>            |
| <p>M66</p>  <p><b>M66</b></p> | <p>MA0086.1_sna</p>  <p><b>MA0086.1_sna</b><br/>(E val: 3.9706e-09)</p>            |
| <p>M5</p>  <p><b>M5</b></p>   | <p>MA0079.2_SP1</p>  <p><b>MA0079.2_SP1</b><br/>(E val: 1.7529e-06)</p>            |
| <p></p>                                                                                                           | <p></p>                                                                                                                                                                 |

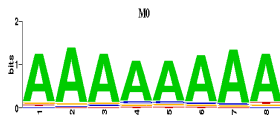
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| <p>M10</p>  <p>M10</p>   | <p>MA0344.1_NHP10</p>  <p>MA0344.1_NHP10<br/>(E val: 1.4041e-05)</p>     |
| <p>M67</p>  <p>M67</p>   | <p>MA0443.1_btd</p>  <p>MA0443.1_btd<br/>(E val: 1.6602e-06)</p>         |
| <p>M12</p>  <p>M12</p>   | <p>MA0039.2_Klf4</p>  <p>MA0039.2_Klf4<br/>(E val: 2.6071e-09)</p>       |
| <p>M22</p>  <p>M22</p>   | <p>MA0320.1_IME1</p>  <p>MA0320.1_IME1<br/>(E val: 2.5702e-06)</p>       |
| <p>M15</p>  <p>M15</p>  | <p>MA0283.1_CHA4</p>  <p>MA0283.1_CHA4<br/>(E val: 3.3590e-05)</p>      |
| <p>M52</p>  <p>M52</p> | <p>MA0283.1_CHA4</p>  <p>MA0283.1_CHA4<br/>(E val: 2.0097e-05)</p>     |
| <p>M19</p>  <p>M19</p> | <p>MA0150.1_NFE2L2</p>  <p>MA0150.1_NFE2L2<br/>(E val: 3.6382e-04)</p> |
| <p>M16</p>  <p>M16</p> | <p>MA0451.1_kni</p>  <p>MA0451.1_kni<br/>(E val: 1.0504e-04)</p>       |
|                                                                                                            |                                                                                                                                                             |

|                                                                                                 |                                                                                                                                          |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <p>M49</p>    | <p>MA0092.1_Hand1_T<br/>(E val: 3.0205e-05)</p>       |
| <p>M64</p>    | <p>MA0347.1_NRG1<br/>(E val: 4.0436e-05)</p>          |
| <p>M55</p>    | <p>MA0359.1_RAP1<br/>(E val: 5.7763e-07)</p>          |
| <p>M62</p>    | <p>MA0137.2_STAT1<br/>(E val: 2.5441e-06)</p>         |
| <p>M58</p>   | <p>MA0092.1_Hand1_T<br/>(E val: 1.0534e-05)</p>      |
| <p>M71</p>  | <p>MA0092.1_Hand1_T<br/>(E val: 2.9253e-05)</p>     |
| <p>M48</p>  | <p>MA0260.1_che-1<br/>(E val: 1.2673e-06)</p>       |
| <p>M61</p>  | <p>MA0065.2_PPARG_RXRA<br/>(E val: 3.4421e-04)</p>  |
|                                                                                                 |                                                                                                                                          |

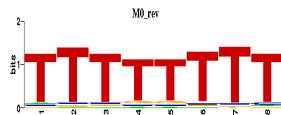
|                                                                                                       |                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>M20</b></p>  |  <p>MA0162.1_Egr1<br/>(E val: 4.0524e-04)</p>   |
|  <p><b>M53</b></p>  |  <p>MA0326.1_MAC1<br/>(E val: 1.9063e-03)</p>   |
|  <p><b>M63</b></p>  |  <p>MA0156.1_FEV<br/>(E val: 8.0177e-04)</p>    |
|  <p><b>M68</b></p>  |  <p>MA0112.2_ESR1<br/>(E val: 1.3216e-09)</p>   |
|  <p><b>M72</b></p> |  <p>MA0290.1_DAL81<br/>(E val: 1.0133e-05)</p> |

### Motif Similarity Matches


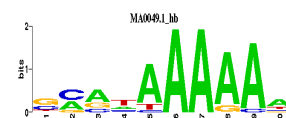
**M0**



*forward*

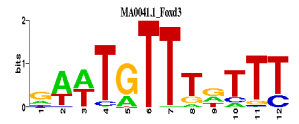


*reverse compliment*

| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>        | <i>Motif</i>                                                                          |
|---------------|----------------|-------------------------|---------------------------------------------------------------------------------------|
| MA0277.1_AZF1 | 6.3763e-08     | -TTTTTTTT<br>TTTCTTTT   |  |
| MA0049.1_hb   | 2.9693e-06     | -TTTTTTTT-<br>NTTTTNYKS |  |

MA0041.1\_Foxd3 7.8581e-05

AAAAAAAA-----  
AAANAAACAWTN



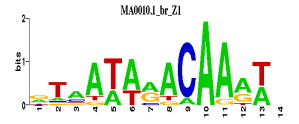
MA0120.1\_id1 4.6001e-04

-----AAAAAAAA  
CGNNANNRRMNA

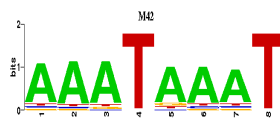


MA0010.1\_br\_Z1 1.2065e-03

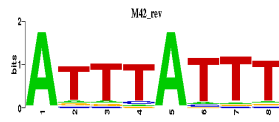
-----AAAAAAAA--  
NTNATARACAARWN



**M42**



*forward*



*reverse complement*

*Name*

*E value*

*Alignment*

*Motif*

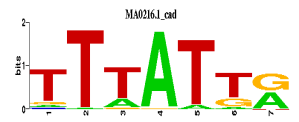
MA0042.1\_FOXI1 2.3159e-07

AAATAAAT-----  
AWAYAAAYANNN



MA0216.1\_cad 3.1410e-07

AAATAAAT  
YAATAAA-



MA0047.1\_Foxa2 3.3489e-07

AAATAAAT-----  
AARYAAATANTN



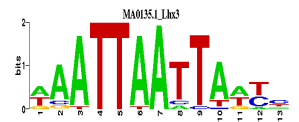
MA0174.1\_CG42234 1.0503e-05

ATTTATTT  
-TTWATKA

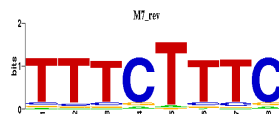
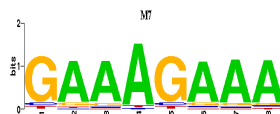



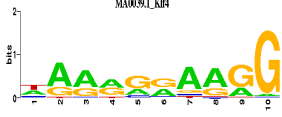

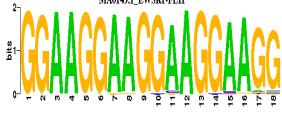

MA0135.1\_Lhx3 1.2140e-05

-----ATTTATTT  
NRWTAATTAATTW

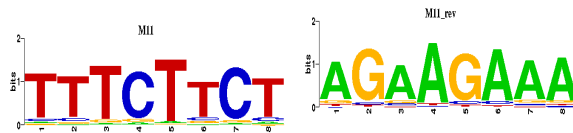


**M7**





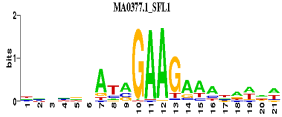
|                     | <i>forward</i> | <i>reverse compliment</i>              |                                                                                     |
|---------------------|----------------|----------------------------------------|-------------------------------------------------------------------------------------|
| <i>Name</i>         | <i>E value</i> | <i>Alignment</i>                       | <i>Motif</i>                                                                        |
| MA0277.1_AZF1       | 4.7405e-09     | TTTCTTTC-<br>TTTCTTTTT                 |  |
| MA0039.1_Klf4       | 2.8047e-05     | --TTTCTTTC<br>CCTTYYYTTN               |  |
| MA0370.1_RME1       | 5.8100e-05     | TTTCTTTC--<br>TNCCTTTNNA               |  |
| MA0149.1_EWSR1-FLI1 | 1.4572e-03     | -----TTTCTTTC-<br>CCTTCCTTCCTTCCTTC    |  |
| MA0051.1_IRF2       | 1.5424e-03     | -----GAAAGAAA---<br>SGAAAGYGAAASYNWNNN |  |

**M11**



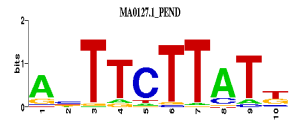
*forward*

*reverse compliment*

| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>                            | <i>Motif</i>                                                                          |
|---------------|----------------|---------------------------------------------|---------------------------------------------------------------------------------------|
| MA0277.1_AZF1 | 9.9042e-08     | -AGAAGAAA<br>AAAAAGAAA                      |  |
| MA0287.1_CUP2 | 4.0034e-06     | --TTTCTTCT-<br>CWTTYTGCTG                   |  |
| MA0377.1_SFL1 | 6.2949e-06     | -----TTTCTTCT-----<br>WNWNNNTCTTCNNTNNTNNNN |  |

MA0127.1\_PEND 3.4833e-05

-AGAAGAAA-  
MATAAGAANT

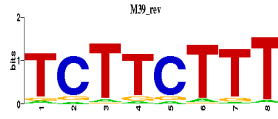
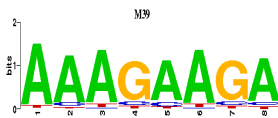


MA0081.1\_SPIB 3.8204e-05

TTTCTTCT  
-TTCKST



**M39**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0277.1\_AZF1

8.7294e-06

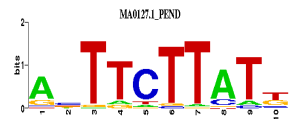
TCTTCTTT--  
-TTTCTTTTT



MA0127.1\_PEND

2.2132e-05

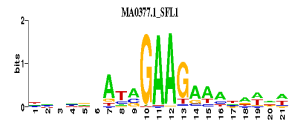
--AAAGAAGA  
MATAAGAANT



MA0377.1\_SFL1

5.2070e-05

-----TCTTCTTT-----  
WNWNNNWCTTCNNTNNNNNN



MA0080.2\_SPI1

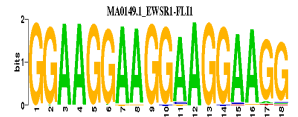
1.1358e-03

TCTTCTTT  
ACTTCT-

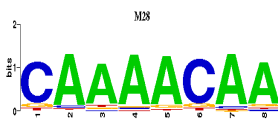


MA0149.1\_EWSR1-FLI1 1.7350e-03

-----TCTTCTTT--  
CCTTCCTTCCTTCCTTC


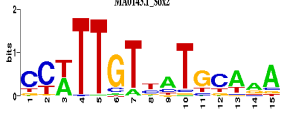

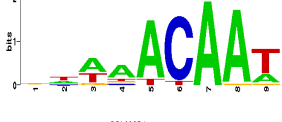



**M28**

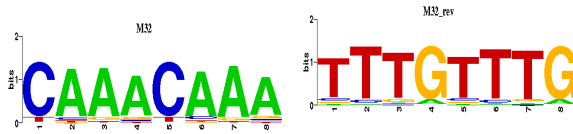


*forward*

*reverse compliment*


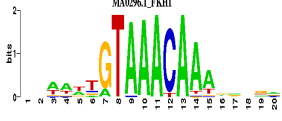


| <i>Name</i>          | <i>E value</i> | <i>Alignment</i>                   | <i>Motif</i>                                                                        |
|----------------------|----------------|------------------------------------|-------------------------------------------------------------------------------------|
| MA00445.1_D          | 2.2104e-06     | CAAACAA-----<br>-ANAACAATRGN       |  |
| <b>MA0143.1_Sox2</b> | 3.9507e-06     | -----CAAACAA---<br>TNTGCATNACAAWGG |  |
| MA0142.1_Pou5f1      | 7.8465e-06     | --TTGTTTTG-----<br>CWTGTGNATGCAAA  |  |
| MA0084.1_SRY         | 2.0064e-05     | -TTGTTTTG<br>ATTGTTWNN             |  |
| MA0235.1_onecut      | 3.5490e-05     | CAAACAA<br>-NAATCAA                |  |

**M32**



*forward*

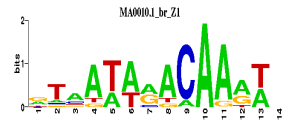
*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>                          | <i>Motif</i>                                                                          |
|----------------|----------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| MA0041.1_Foxd3 | 8.4884e-07     | CAAACAA-----<br>-AAANAAACAWTN             |  |
| MA0296.1_FKH1  | 1.0230e-06     | -----TTTGTTTG-----<br>NNNNNTTGTTTACANNWNN |  |
| MA0042.1_FOXI1 | 1.3242e-06     | -----TTTGTTTG<br>NNNRTTTTRTWT-            |  |
| MA0013.1_br_Z4 | 1.3355e-06     | TTTGTTTG---<br>WIWNITTACTA                |  |

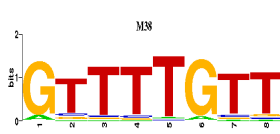


MA0010.1\_br\_Z1 1.7396e-05

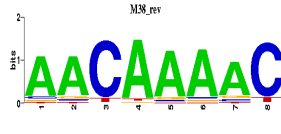
--TTTGTGGT----  
NWYTTGTYTATNAN



**M38**



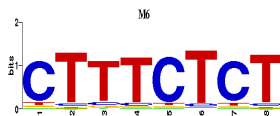
*forward*



*reverse compliment*

| Name           | E value    | Alignment                        | Motif |
|----------------|------------|----------------------------------|-------|
| MA0137.1_STAT1 | 2.3407e-05 | --GTTTTGTT----<br>NAGTTTCNNTTTCY |       |
| MA0442.1_SOX10 | 1.5733e-04 | AACAAAAC<br>-ACAAG-              |       |
| MA0087.1_Sox5  | 1.7061e-04 | GTTTTGTT-<br>--ATTGTTN           |       |
| MA0041.1_Foxd3 | 2.8803e-04 | -AACAAAAC---<br>AAANAAACAWTN     |       |
| MA0010.1_br_Z1 | 3.0919e-04 | GTTTTGTT-----<br>NWYTTGTYTATNAN  |       |

**M6**



*forward*

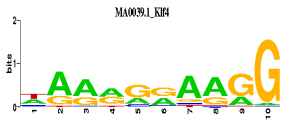


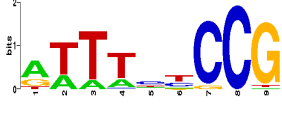



*reverse compliment*

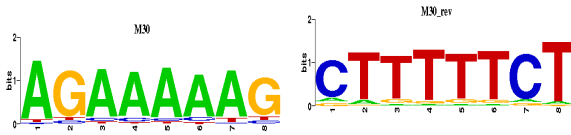
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13



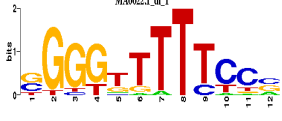

|                  |            |                                          |                                                                                     |
|------------------|------------|------------------------------------------|-------------------------------------------------------------------------------------|
| MA0039.1_Klf4    | 4.2486e-06 | -CTTTCTCT-<br>CCTTYYYTTN                 |  |
| MA0081.1_SPIB    | 3.7364e-05 | CTTTCTCT<br>-TTCKST                      |  |
| MA0277.1_AZF1    | 6.9966e-05 | --AGAGAAAG<br>AAAAAGAAA-                 |  |
| MA0437.1_YPR196W | 9.9230e-05 | -AGAGAAAG<br>CGGRNAAAT                   |  |
| MA0051.1_IRF2    | 3.4144e-04 | ----AGAGAAAG-----<br>SGAAAGYGAAA SYNWWNN |  |

**M30**



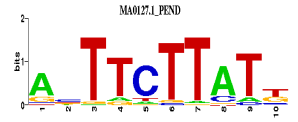
*forward*

*reverse compliment*

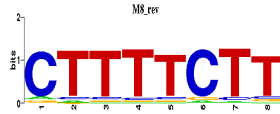
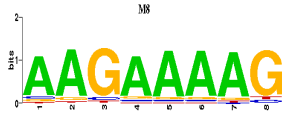
| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i>                                                                          |
|-----------------|----------------|-----------------------------|---------------------------------------------------------------------------------------|
| MA0277.1_AZF1   | 9.1034e-06     | ---CTTTTCT<br>TTTCTTTT---   |  |
| MA0294.1_EDS1   | 1.0289e-05     | CTTTTCT-<br>NTTNTCCN        |  |
| MA0022.1_dl_1   | 1.3673e-04     | -AGAAAAAG---<br>NGGAAAAACCS |  |
| MA0152.1_NFATC2 | 1.8350e-04     | -AGAAAAAG<br>TGGAAAA--      |  |

MA0127.1\_PEND 3.0821e-04

-CTTTTCT-  
ANTTCTTATK



**M8**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

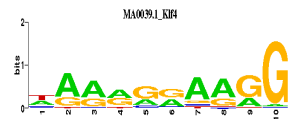
MA0277.1\_AZF1 7.7419e-06

---AAGAAAAG  
AAAAAGAAA--



MA0039.1\_Klf4 1.1111e-05

--AAGAAAAG  
NAARRRAAGG



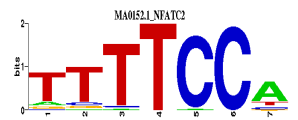
MA0287.1\_CUP2 9.8659e-05

CTTTTCTT---  
CWTTYTGCTG



MA0152.1\_NFATC2 1.7650e-04

AAGAAAAG  
TGGAAA-

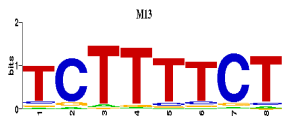


MA0035.2\_Gata1 4.6813e-04

--CTTTTCTT-  
NNTTATCTNN



**M13**



*forward*

*reverse compliment*

*Name*




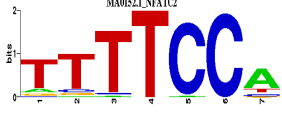

*E value*

*Alignment*

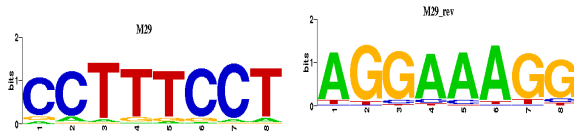
*Motif*

Stamp Results

10/01/13

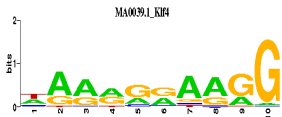

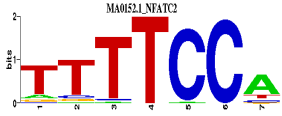

|                 |            |                                   |                                                                                     |
|-----------------|------------|-----------------------------------|-------------------------------------------------------------------------------------|
| MA0029.1_Evi1   | 5.8901e-06 | -----TCTTTTCT--<br>NNTTATCTTRTCTN |  |
| MA0277.1_AZF1   | 9.1656e-06 | --TCTTTTCT<br>TTTCTTTTT--         |  |
| MA0287.1_CUP2   | 9.6679e-05 | ----AGAAAAGA<br>CAGCARAAAWG--     |  |
| MA0152.1_NFATC2 | 1.7396e-04 | -AGAAAAGA<br>TGGAAAA--            |  |
| MA0035.2_Gata1  | 4.7380e-04 | -TCTTTTCT--<br>NNTTATCTNN         |  |

**M29**



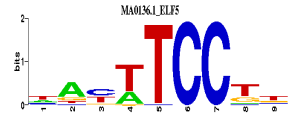
*forward*

*reverse compliment*

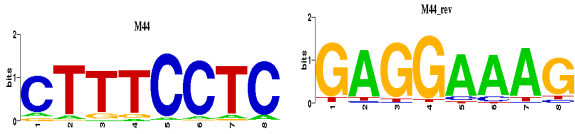
| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>         | <i>Motif</i>                                                                          |
|-----------------|----------------|--------------------------|---------------------------------------------------------------------------------------|
| MA0039.1_Klf4   | 9.2885e-07     | CCTTTCCT--<br>CCTTYYYTTN |  |
| MA0156.1_FEV    | 2.4600e-05     | CCTTTCCT--<br>-AYTTCCTG  |  |
| MA0152.1_NFATC2 | 1.8710e-04     | AGGAAAGG<br>TGGAAAA--    |  |
| MA0080.2_SPI1   | 2.3425e-04     | CCTTTCCT<br>-ACTTCCT     |  |

MA0136.1\_ELF5 5.1532e-04

-AGGAAAGG  
NMGGAARTN



**M44**

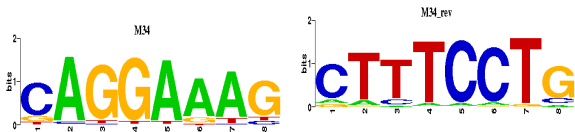


*forward*

*reverse compliment*

| Name           | E value    | Alignment                   | Motif |
|----------------|------------|-----------------------------|-------|
| MA0081.1_SPIB  | 2.3525e-06 | CTTTCCTC-<br>--TTCKST       |       |
| MA0090.1_TEAD1 | 6.0132e-06 | --GAGGAAAG--<br>CNSWGAATGTR |       |
| MA0326.1_MAC1  | 1.7589e-05 | -GAGGAAAG<br>YGAGCAA-       |       |
| MA0156.1_FEV   | 2.7045e-05 | CTTTCCTC<br>AYTTCCTG        |       |
| MA0243.1_sd    | 7.2905e-05 | --GAGGAAAG--<br>NYNNAATKWN  |       |


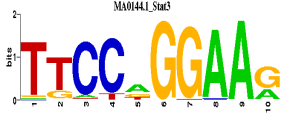


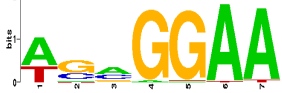
**M34**



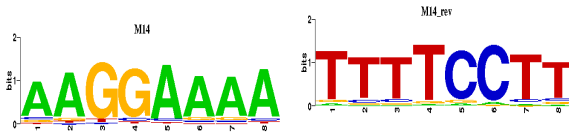
*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|


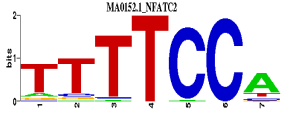


|                  |            |                             |                                                                                     |
|------------------|------------|-----------------------------|-------------------------------------------------------------------------------------|
| MA0156.1_FEV     | 1.8958e-08 | CTTTCCTG<br>AYTTCCTG        |  |
| MA0144.1_Stat3   | 1.9705e-05 | ---CAGGAAAG<br>TTCNGGAAG-   |  |
| MA0026.1_Eip74EF | 6.7686e-05 | CTTTCCTG<br>-YTTCCGG        |  |
| MA0090.1_TEAD1   | 1.3937e-04 | --CAGGAAAG--<br>CNSWGAATGTR |  |
| MA0081.1_SPIB    | 1.5223e-04 | -CAGGAAAG<br>ASMGAA--       |  |

**M14**



*forward*

*reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i>                                                                          |
|-----------------|----------------|------------------------------|---------------------------------------------------------------------------------------|
| MA0120.1_id1    | 8.8880e-08     | TTTTTCCTT----<br>TNKYNNNTNCG |  |
| MA0152.1_NFATC2 | 1.5467e-07     | AAGGAAAA<br>-TGGAAAA         |  |
| MA0277.1_AZF1   | 7.6868e-06     | TTTTTCCTT--<br>-TTTCTTTTT    |  |
| MA0294.1_EDS1   | 1.3220e-05     | --TTTTTCCTT<br>NTTNTTCN-     |  |

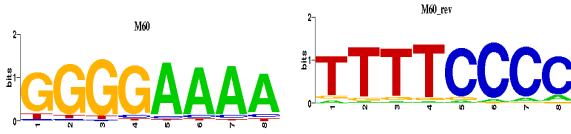
MA0156.1\_FEV

1.5307e-05

AAGGAAAA  
CAGGAART



**M60**

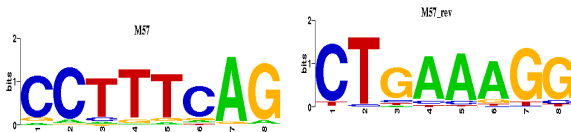


*forward*

*reverse compliment*

| Name              | E value    | Alignment                      | Motif |
|-------------------|------------|--------------------------------|-------|
| MA0152.1_NFATC2   | 1.6200e-07 | GGGGAAAA<br>-TGGAAAA           |       |
| MA0022.1_dI_1     | 4.5881e-06 | GGGGAAAA-----<br>-NGGAAAAACCCS |       |
| MA0294.1_EDS1     | 9.8216e-06 | --TTTTCCCC<br>NTTNTCCN-        |       |
| MA0437.1_YPR196W  | 1.2438e-05 | -GGGGAAAA<br>CGGRNAAAT         |       |
| MA0056.1_MZF1_1-4 | 2.1749e-05 | TTTTCCCC-<br>---TCCCN          |       |

**M57**








*forward*

*reverse compliment*

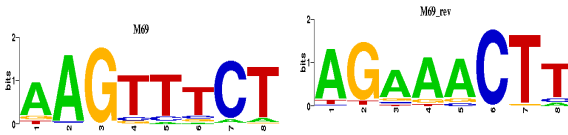
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13

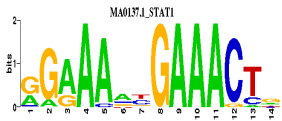
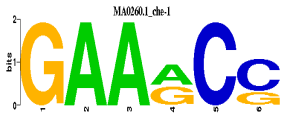


|                |            |                                    |                                                                                     |
|----------------|------------|------------------------------------|-------------------------------------------------------------------------------------|
| MA0440.1_ZAP1  | 1.3391e-04 | --CTGAAAGG-----<br>ACCYTMAAGGTNATG |  |
| MA0207.1_achi  | 1.5779e-04 | CCTTTCAG<br>-CTGICA-               |  |
| MA0298.1_FZF1  | 1.8472e-04 | CTGAAAGG<br>-TGATAG-               |  |
| MA0393.1_STE12 | 2.2039e-04 | CCTTTCAG<br>YGTTTCA-               |  |
| MA0227.1_hth   | 2.2145e-04 | CCTTTCAG<br>-CTGICA-               |  |

**M69**



*forward*

*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>                | <i>Motif</i>                                                                          |
|----------------|----------------|---------------------------------|---------------------------------------------------------------------------------------|
| MA0137.1_STAT1 | 1.2286e-04     | AAGTTTCT-----<br>NAGTTTCNNTTTCY |  |
| MA0260.1_che-1 | 1.8552e-04     | AGAACTT<br>-GAARCC-             |  |
| MA0393.1_STE12 | 1.9706e-04     | AAGTTTCT<br>-YGTTTCA            |  |
| MA0164.1_Nr2e3 | 8.1966e-04     | AGAACTT-<br>--AAGCTTN           |  |

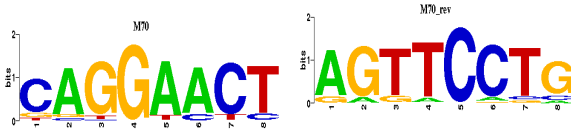


MA0124.1\_NKX3-1 1.3466e-03

AGAAACTT-  
--ATACTTA



**M70**

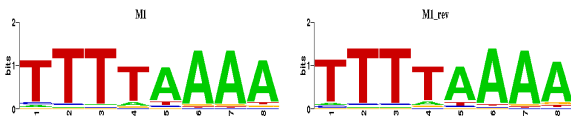


*forward*

*reverse compliment*

| Name             | E value    | Alignment                  | Motif |
|------------------|------------|----------------------------|-------|
| MA0156.1_FEV     | 1.9906e-07 | AGTTCCTG<br>AYTTCCTG       |       |
| MA0080.2_SPI1    | 4.0613e-06 | AGTTCCTG<br>ACTTCCT-       |       |
| MA0144.1_Stat3   | 3.0781e-05 | AGTTCCTG---<br>-CTTCCNGGAA |       |
| MA0026.1_Eip74EF | 1.0203e-04 | AGTTCCTG<br>-YTCCGG        |       |
| MA0420.1_YBR239C | 1.1592e-04 | AGTTCCTG-<br>-GTTCCGRN     |       |




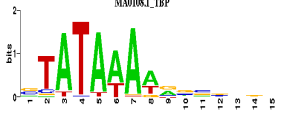
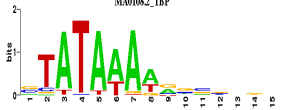
**M1**



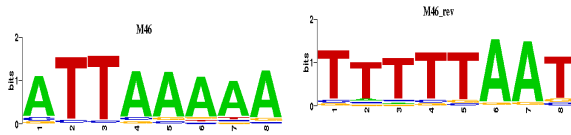
*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|


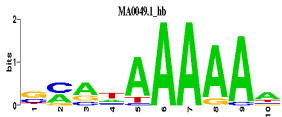


|                  |            |                                  |                                                                                     |
|------------------|------------|----------------------------------|-------------------------------------------------------------------------------------|
| MA0151.1_ARID3A  | 7.0631e-05 | TTTTAAAA<br>-TTTAAT-             |  |
| MA0218.1_ct      | 1.3223e-03 | TTTTAAAA<br>GTTYAA--             |  |
| MA0173.1_CG11617 | 1.5489e-03 | TTTTAAAA-<br>--TTWACAT           |  |
| MA0108.1_TBP     | 1.5521e-03 | -----TTTTAAAA<br>NNNNNNYWTTTATAN |  |
| MA0108.2_TBP     | 1.5565e-03 | -----TTTTAAAA<br>NNNNNNYWTTTATAN |  |

**M46**



*forward*

*reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>         | <i>Motif</i>                                                                          |
|-----------------|----------------|--------------------------|---------------------------------------------------------------------------------------|
| MA0151.1_ARID3A | 1.8531e-08     | TTTTTAAT<br>--TTTAAT     |  |
| MA0049.1_hb     | 2.7188e-05     | -TTTTTAAT-<br>NTTTTTNYKS |  |
| MA0244.1_slbo   | 3.3483e-05     | TTTTTAAT<br>TKNGYAAT     |  |
| MA0279.1_CAD1   | 6.4563e-05     | --TTTTTAAT<br>GCTTACTAAT |  |

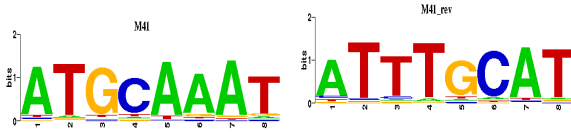
MA0229.1\_inv

1.7148e-04

--ATTAAAAA  
TAATTARW--



**M41**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0453.1\_nub

2.6303e-11

---ATTTGCAT-  
NTNATTGCATA



**MA0142.1\_Pou5f1**

8.0244e-11

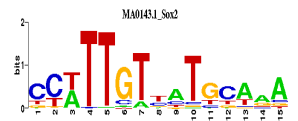
ATTTGCAT-----  
ATTTGCATNACAAG



MA0143.1\_Sox2

5.3923e-07

-----ATGCAAAT  
CCWTTGTNATGCANA-



MA0274.1\_ARR1

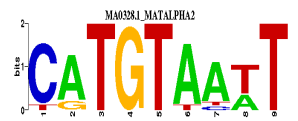
6.8890e-07

ATGCAAAT  
ATTCARNT

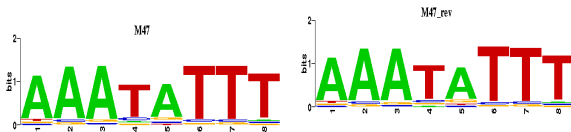


MA0328.1\_MATALPHA2 1.0896e-05

ATTTGCAT-  
AATTACATG



**M47**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

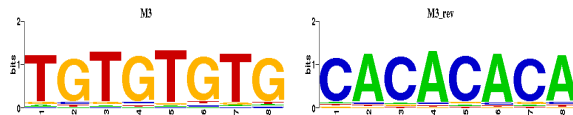
*Motif*

Stamp Results

10/01/13

|                 |            |                                             |  |
|-----------------|------------|---------------------------------------------|--|
| MA0153.1_HNF1B  | 1.7194e-06 | -AAATATTT---<br>TTAATRWTTAAC                |  |
| MA0047.1_Foxa2  | 1.8164e-06 | AAATATTT----<br>NANTATTTTRYTT               |  |
| MA0008.1_HAT5   | 1.9361e-05 | -AAATATTT<br>NAATTATT-                      |  |
| MA0378.1_SFP1   | 3.2006e-05 | -----AAATATTT-----<br>NNNNRNAAAAWTTTTYNNNNN |  |
| MA0110.1_ATHB-5 | 1.0352e-04 | --AAATATTT<br>NCAATKATT-                    |  |

M3

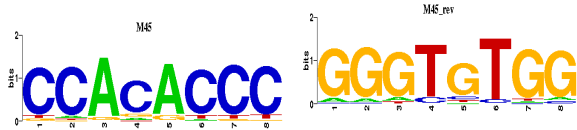


*forward*

*reverse compliment*

| Name           | E value    | Alignment                    | Motif |
|----------------|------------|------------------------------|-------|
| MA0009.1_T     | 1.0678e-03 | --CACACACA-<br>TTCACACCTAG   |       |
| MA0359.1_RAP1  | 1.4094e-03 | TGTGTGTG--<br>TGTATGGGTG     |       |
| MA0327.1_MATA1 | 1.7713e-03 | --TGTGTGTG<br>ATTGTGY---     |       |
| MA0041.1_Foxd3 | 2.4557e-03 | -CACACACA---<br>AAANAAACAWTN |       |
| MA0288.1_CUP9  | 2.5278e-03 | TGTGTGTG-<br>WWTGTGTCA       |       |

**M45**

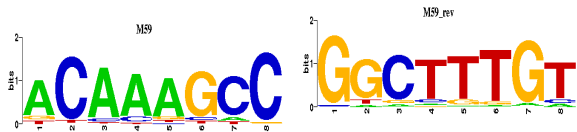


*forward*

*reverse compliment*

| Name           | E value    | Alignment                  | Motif |
|----------------|------------|----------------------------|-------|
| MA0039.2_Klf4  | 1.1836e-09 | -CCACACCC-<br>GCCMCRCCCN   |       |
| MA0270.1_AFT2  | 2.1789e-06 | CCACACCC-<br>-NACACCCN     |       |
| MA0332.1_MET28 | 1.8992e-05 | CCACACCC<br>CCACAG--       |       |
| MA0450.1_hkb   | 2.9522e-05 | CCACACCC-<br>TCACGCCM      |       |
| MA0009.1_T     | 3.1341e-05 | -CCACACCC--<br>TTCACACCTAG |       |





**M59**



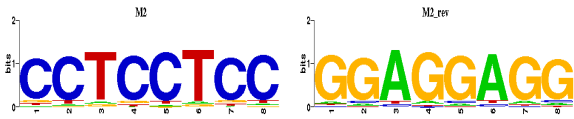
*forward*

*reverse compliment*

| Name           | E value    | Alignment            | Motif |
|----------------|------------|----------------------|-------|
| MA0442.1_SOX10 | 8.1154e-08 | ACAAAGCC<br>ACAANG-- |       |

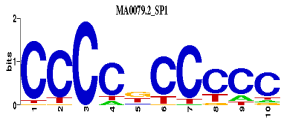


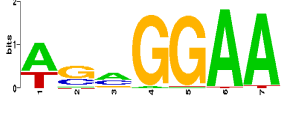

|                |            |                      |                                                                                     |
|----------------|------------|----------------------|-------------------------------------------------------------------------------------|
| MA0053.1_MNB1A | 2.5705e-06 | GGCTTTGT<br>-NCTTT-- |  |
| MA0064.1_PBF   | 4.9535e-06 | GGCTTTGT<br>-RCTTT-- |  |
| MA0020.1_Dof2  | 1.9282e-05 | GGCTTTGT<br>NGCTTT-- |  |
| MA0021.1_Dof3  | 6.2942e-05 | GGCTTTGT<br>NRCTTT-- |  |

M2

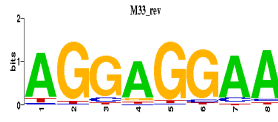
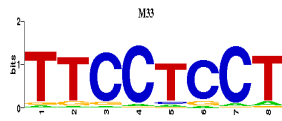


*forward*

*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i>                                                                          |
|----------------|----------------|----------------------------|---------------------------------------------------------------------------------------|
| MA0079.2_SP1   | 1.5063e-06     | --CCTCCTCC<br>CCCCNCCCC    |  |
| MA0283.1_CHA4  | 2.9716e-05     | CCTCCTCC<br>NCTCCGCC       |  |
| MA0062.1_GABPA | 3.3574e-04     | CCTCCTCC---<br>-SNCTTCCGGT |  |
| MA0081.1_SPIB  | 8.0499e-04     | CCTCCTCC<br>-TTCKST        |  |
| MA0080.2_SPI1  | 8.4109e-04     | -CCTCCTCC<br>ACTTCT--      |  |

**M33**

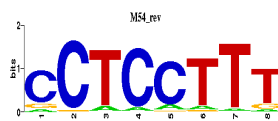
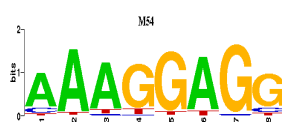


*forward*

*reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
|--------------------|----------------|-------------------------------|--------------|
| MA0081.1_SPIB      | 1.4339e-06     | TTCCTCCT<br>TTCCKST-          |              |
| MA0090.1_TEAD1     | 3.1239e-06     | AGGAGGAA----<br>CNSWGGAAATGTR |              |
| MA0080.2_SPI1      | 2.0843e-04     | --TTCCTCCT<br>ACTTCCT---      |              |
| MA0057.1_MZF1_5-13 | 6.7235e-04     | TTCCTCCT--<br>NTNCCCCTMN      |              |
| MA0156.1_FEV       | 8.7171e-04     | --TTCCTCCT<br>AYTTCCTG--      |              |

**M54**



*forward*

*reverse compliment*

| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>          | <i>Motif</i> |
|---------------|----------------|---------------------------|--------------|
| MA0370.1_RME1 | 3.1380e-05     | ---AAAGGAGG<br>TNNAAGGNA- |              |
| MA0039.1_Klf4 | 4.6335e-05     | -CCTCCTTT-<br>CCTTYYYTNN  |              |

Stamp Results

10/01/13

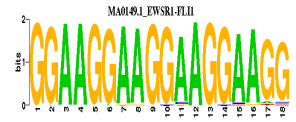
MA0072.1\_RORA\_2 1.0910e-03

----CCTCCTTT--  
NTGACCTANTTWN



MA0149.1\_EWSR1-FLI1 1.4104e-03

-----CCTCCTTT-  
CCTTCCTTCCTTCCTTC

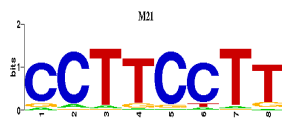


MA0080.2\_SPI1 1.5192e-03

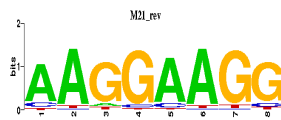
-CCTCCTTT  
ACTTCCT--



**M21**



*forward*



*reverse compliment*

*Name*

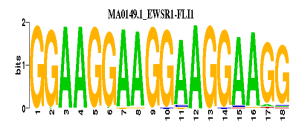
*E value*

*Alignment*

*Motif*

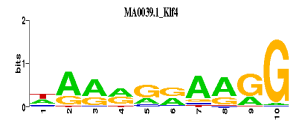
**MA0149.1\_EWSR1-FLI1** 1.1154e-10

CCTTCCTT-----  
CCTTCCTTCCTTCCTTC



MA0039.1\_Klf4 2.0730e-08

CCTTCCTT--  
CCTTYYYT



MA0080.2\_SPI1 2.2454e-07

CCTTCCTT  
ACTTCCT-



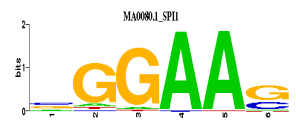
MA0370.1\_RME1 2.8697e-05

----AAGGAAGG  
TNNAAGGNA--

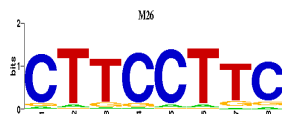


MA0080.1\_SPI1 4.8701e-05

CCTTCCTT  
-STTCN-

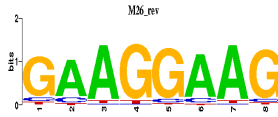


**M26**





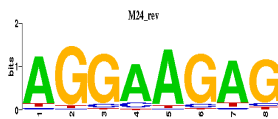
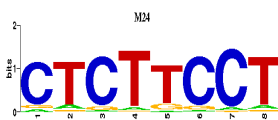
*forward*



*reverse compliment*

| Name                | E value    | Alignment                           | Motif |
|---------------------|------------|-------------------------------------|-------|
| MA0149.1_EWSR1-FLI1 | 1.1272e-10 | -----GAAGGAAG-<br>GGAAGGAAGGAAGGAAG |       |
| MA0080.2_SPI1       | 2.4134e-07 | -CTTCCTTC<br>ACTTCCT--              |       |
| MA0370.1_RME1       | 3.1390e-05 | CTTCCTTC---<br>-TNCCTTTNNA          |       |
| MA0039.1_Klf4       | 3.3462e-05 | -CTTCCTTC-<br>CCTTYYYTNN            |       |
| MA0080.1_SPI1       | 4.2146e-05 | CTTCCTTC<br>STTCN--                 |       |

**M24**



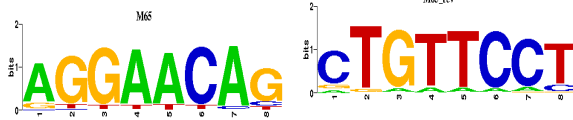
*forward*

*reverse compliment*

| Name           | E value    | Alignment               | Motif |
|----------------|------------|-------------------------|-------|
| MA0062.1_GABPA | 4.0856e-08 | --AGGAAGAG<br>ACCGAAGNS |       |
| MA0080.2_SPI1  | 2.5623e-07 | CTCTTCCT<br>-ACTTCCT    |       |

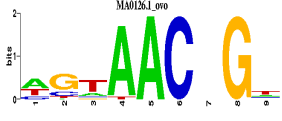
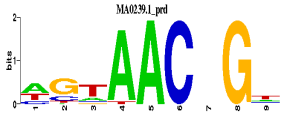



|                |            |                             |                                                                                     |
|----------------|------------|-----------------------------|-------------------------------------------------------------------------------------|
| MA0080.1_SPI1  | 3.9214e-05 | CTCTTCCT<br>--STTCN         |  |
| MA0144.1_Stat3 | 6.1207e-05 | ----AGGAAGAG<br>TTCNGGAAG-- |  |
| MA0156.1_FEV   | 7.9106e-05 | CTCTTCCT-<br>-AYTTCCTG      |  |

**M65**

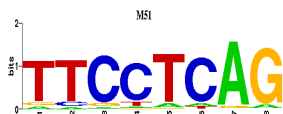


*forward*

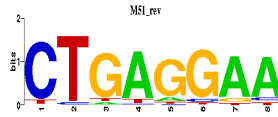
*reverse compliment*

| Name            | E value    | Alignment               | Motif                                                                                 |
|-----------------|------------|-------------------------|---------------------------------------------------------------------------------------|
| MA0126.1_ovo    | 7.3187e-06 | -CTGTTTCCT<br>NCNGTTACW |  |
| MA0239.1_prd    | 7.3187e-06 | -CTGTTTCCT<br>NCNGTTACW |  |
| MA0261.1_lin-14 | 8.5637e-05 | CTGTTTCCT<br>NYGTTCC--  |  |
| MA0080.2_SPI1   | 2.0450e-04 | CTGTTTCCT<br>-ACTTCCT   |  |
| MA0062.1_GABPA  | 3.9342e-04 | --AGGAACAG<br>ACCGAAGNS |  |

**M51**



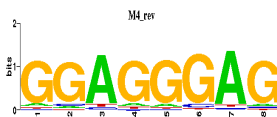
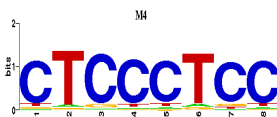
*forward*



*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
|----------------|----------------|-----------------------------|--------------|
| MA0081.1_SPIB  | 3.8551e-07     | CTGAGGAA<br>-ASMGGAA        |              |
| MA0326.1_MAC1  | 4.3528e-05     | -TTCCTCAG<br>TTTGCTCR-      |              |
| MA0332.1_MET28 | 1.1558e-04     | TTCCTCAG<br>--CCACAG        |              |
| MA0080.2_SPI1  | 2.2504e-04     | --TTCCTCAG<br>ACTTCCT---    |              |
| MA0090.1_TEAD1 | 2.3731e-04     | CTGAGGAA----<br>CNSWGAATGTR |              |

**M4**



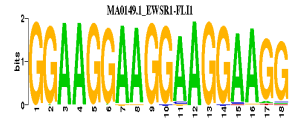
*forward*

*reverse compliment*

| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>          | <i>Motif</i> |
|---------------|----------------|---------------------------|--------------|
| MA0410.1_UGA3 | 2.9183e-05     | CTCCCTCC-<br>-TCCCGCCN    |              |
| MA0079.2_SPI1 | 3.6194e-04     | ---GGAGGGAG<br>GGGGNGGGG- |              |

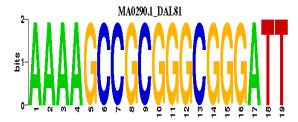
MA0149.1\_EWSR1-FLI1 9.7992e-04

----GGAGGGAG-----  
GGAAGGAAGGAAGGAAG



MA0290.1\_DAL81 1.4422e-03

-CTCCCTCC-----  
AATCCCGCCC GCGGCTTTT

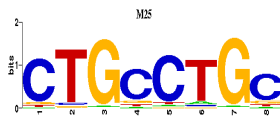


MA0080.2\_SPI1 1.5825e-03

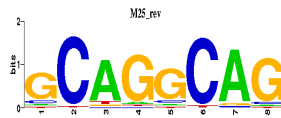
-CTCCCTCC  
ACTTCCT--



M25



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

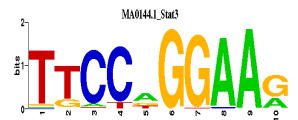
MA0340.1\_MOT3 2.6388e-05

GCAGGCAG  
-NAGGYA-



MA0144.1\_Stat3 2.7553e-04

--GCAGGCAG  
TTCCNGGAAG



MA0156.1\_FEV 4.3438e-04

-CTGCCTGC  
AYTTCCTG-



MA0080.2\_SPI1 1.3266e-03

-CTGCCTGC  
ACTTCCT--

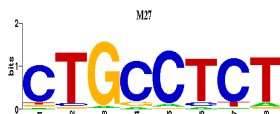


MA0026.1\_Eip74EF 1.4447e-03

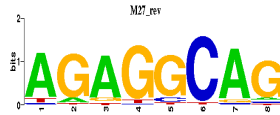
GCAGGCAG  
-CCGGAAR



M27



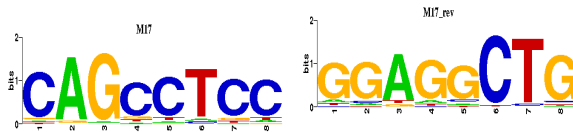
*forward*



*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>      | <i>Motif</i> |
|----------------|----------------|-----------------------|--------------|
| MA0081.1_SPIB  | 7.1008e-05     | CTGCCTCT<br>-TTCKST   |              |
| MA0340.1_MOT3  | 2.5943e-04     | CTGCCTCT<br>-TRCTN-   |              |
| MA0099.2_AP1   | 1.2264e-03     | AGAGGCAG<br>TGAGTCA-  |              |
| MA0080.2_SPI1  | 1.4310e-03     | -CTGCCTCT<br>ACTTCT-- |              |
| MA0272.1_ARG81 | 3.2867e-03     | AGAGGCAG<br>NGAGTCAN  |              |

**M17**



*forward*

*reverse compliment*

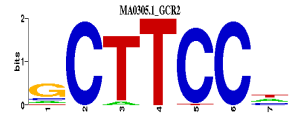
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
|---------------|----------------|-------------------------------|--------------|
| MA0412.1_UME6 | 5.6801e-04     | --GGAGGCTG--<br>TSGGCGGCTAWWT |              |
| MA0079.2_SPI1 | 6.9841e-04     | GGAGGCTG--<br>GGGGNGGGG       |              |

Stamp Results

10/01/13

MA0305.1\_GCR2 1.0852e-03

-GGAGGCTG  
NGGAAGC--



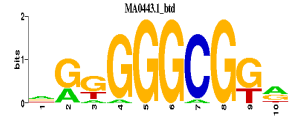
MA0373.1\_RPN4 1.4878e-03

CAGCCTCC  
-CGCCACC

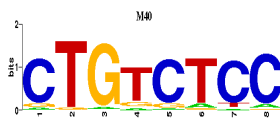


MA0443.1\_btd 2.2489e-03

-CAGCCTCC-  
YCCGCCMCN



M40



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0207.1\_achi

2.6733e-05

CTGTCTCC  
CTGTCA--



MA0227.1\_hth

5.5222e-05

GGAGACAG  
--TGACAG



MA0354.1\_PDR8

7.0927e-04

CTGTCTCC--  
--ATCTCCGN



MA0432.1\_YNR063W

7.9224e-04

CTGTCTCC--  
--ATCTCCGA



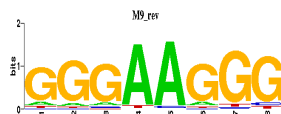
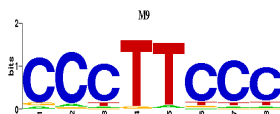
MA0422.1\_YDR520C

8.8444e-04

CTGTCTCC--  
NTAWNTC CGN

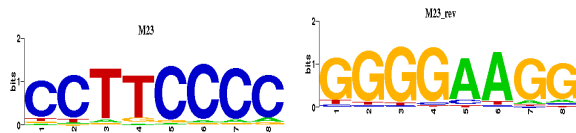


M9



|               | <i>forward</i> | <i>reverse compliment</i>   |              |
|---------------|----------------|-----------------------------|--------------|
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
| MA0079.2_SP1  | 2.6719e-06     | -GGGAAGGG-<br>GGGGGNGGGG    |              |
| MA0039.1_Klf4 | 1.1692e-05     | CCCTTCCC---<br>-CCTTYYYT TN |              |
| MA0080.1_SPI1 | 5.2599e-05     | CCCTTCCC<br>--STTCN         |              |
| MA0080.2_SPI1 | 1.7309e-04     | CCCTTCCC<br>-ACTTCCT        |              |
| MA0305.1_GCR2 | 1.7589e-04     | GGGAAGGG<br>NGGAAGC-        |              |

**M23**



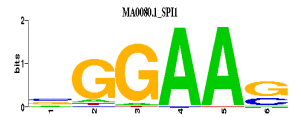
|                   | <i>forward</i> | <i>reverse compliment</i> |              |
|-------------------|----------------|---------------------------|--------------|
| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>          | <i>Motif</i> |
| MA0079.2_SP1      | 5.9128e-06     | GGGGAAGG--<br>GGGGGNGGGG  |              |
| MA0056.1_MZF1_1-4 | 2.2331e-05     | CCTTCCCC-<br>---TCCCN     |              |
| MA0039.1_Klf4     | 3.4040e-05     | --GGGGAAGG<br>NAARRRAAGG  |              |

Stamp Results

10/01/13

MA0080.1\_SPI1 5.3094e-05

CCTTCCCC  
-STCCN-

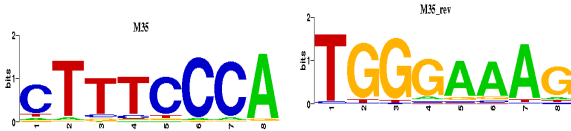


MA0105.1\_NFKB1 1.4272e-04

GGGGAAGG---  
GGGGAATCCCC



M35



*forward*

*reverse compliment*

*Name*

*E value*

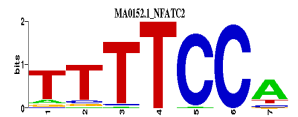
*Alignment*

*Motif*

MA0152.1\_NFATC2

1.7158e-06

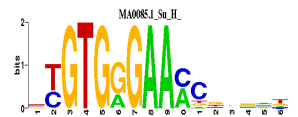
CTTTCCCA  
-TTTTCCA



MA0085.1\_Su\_H\_

1.0743e-05

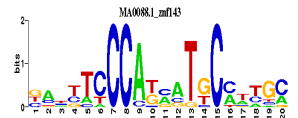
-----CTTTCCCA---  
NNNNNGKTTCCCACRN



MA0088.1\_znf143

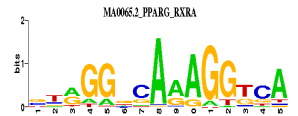
1.9055e-05

-----TGGGAAAG-  
KCNNKGMANNMTGGGANNNN



MA0065.2\_PPARG\_RXRA 5.8861e-04

----CTTTCCCA---  
TGMCCTTTGNCCYNN



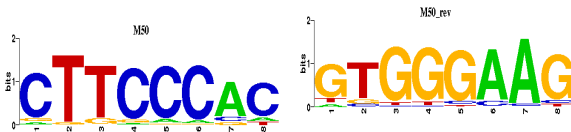
MA0438.1\_YRM1

6.3297e-04

CTTTCCCA  
ATNTCCGN



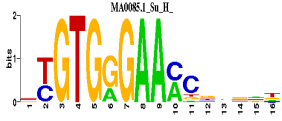
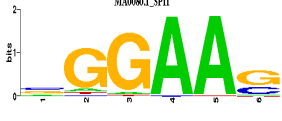



M50



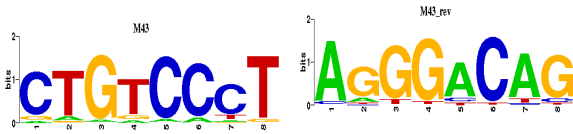
*forward*

*reverse compliment*



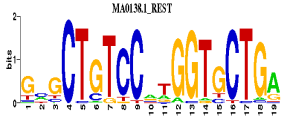

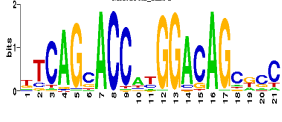

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                    | <i>Motif</i>                                                                        |
|------------------|----------------|-------------------------------------|-------------------------------------------------------------------------------------|
| MA0085.1_Su_H_   | 6.9363e-07     | -----CTTCCCAC--<br>NNNNNGKTTCCCACRN |  |
| MA0080.1_SPI1    | 4.1192e-05     | GTGGGAAG<br>--NGGAAS                |  |
| MA0305.1_GCR2    | 1.8390e-04     | GTGGGAAG--<br>--NGGAAGC             |  |
| MA0009.1_T       | 1.8512e-04     | CTTCCCAC----<br>-TTCACACCTAG        |  |
| MA0436.1_YPR022C | 1.8596e-04     | -GTGGGAAG<br>NGTGGGG--              |  |

**M43**



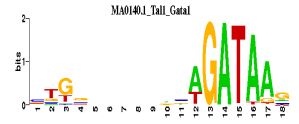
*forward*

*reverse compliment*

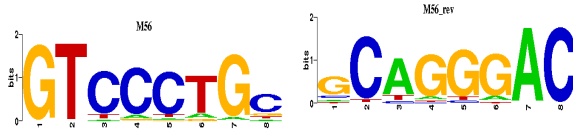
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>                           | <i>Motif</i>                                                                          |
|---------------|----------------|--------------------------------------------|---------------------------------------------------------------------------------------|
| MA0138.1_REST | 2.5745e-05     | ---CTGTCCCT-----<br>GNGCTGTCCNWGGTGCTGA    |  |
| MA0207.1_achi | 2.6987e-05     | CTGTCCCT<br>CTGTCA--                       |  |
| MA0138.2_REST | 5.0781e-05     | -----AGGGACAG----<br>NTCAGCACCNNGGACAGCNNC |  |
| MA0227.1_hth  | 5.9953e-05     | CTGTCCCT<br>CTGTCA--                       |  |

MA0140.1\_Tal1\_Gata1 2.8886e-04

-----CTGTCCCT-----  
 NTTATCTNNNNNNNNNCNN



**M56**

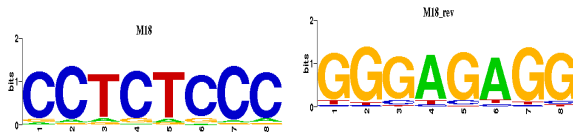


*forward*

*reverse compliment*

| Name          | E value    | Alignment                  | Motif |
|---------------|------------|----------------------------|-------|
| MA0364.1_REI1 | 1.8664e-04 | GTCCCTGC<br>-CCCCTGN       |       |
| MA0154.1_EBF1 | 7.0611e-04 | GTCCCTGC---<br>-TCCCTNGGGN |       |
| MA0366.1_RGM1 | 1.9195e-03 | GTCCCTGC<br>-CCCCT--       |       |
| MA0342.1_MSN4 | 2.3613e-03 | GTCCCTGC<br>-CCCCT--       |       |
| MA0156.1_FEV  | 3.1011e-03 | GCAGGGAC-<br>-CAGGAART     |       |

**M18**



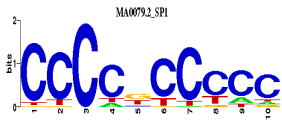
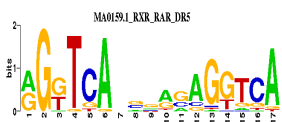
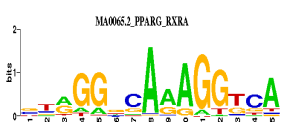


*forward*

*reverse compliment*

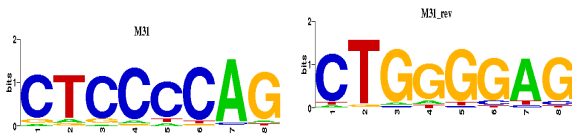
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13

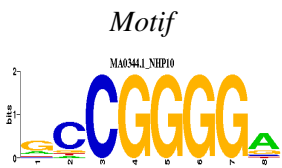



|                      |            |                                       |                                                                                     |
|----------------------|------------|---------------------------------------|-------------------------------------------------------------------------------------|
| MA0079.2_SP1         | 1.3331e-05 | --CCTCTCCC<br>CCCCNCCCCC              |  |
| MA0159.1_RXR_RAR_DR5 | 8.8261e-05 | ---CCTCTCCC-----<br>TGACCTNYNNNTGAMCY |  |
| MA0065.2_PPARG_RXRA  | 1.4730e-04 | ---CCTCTCCC-----<br>TGMCCITTTGNCYYNN  |  |
| MA0062.1_GABPA       | 4.8584e-04 | ---GGGAGAGG<br>ACCGGAAGNS-            |  |
| MA0323.1_IXR1        | 5.8614e-04 | --CCTCTCCC-----<br>CMCCGCTTCCGGYTT    |  |

M31



*forward*

*reverse compliment*

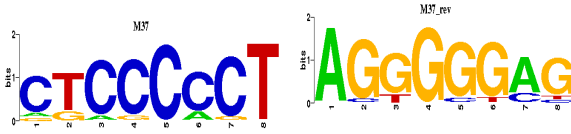
| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>      | <i>Motif</i>                                                                          |
|-------------------|----------------|-----------------------|---------------------------------------------------------------------------------------|
| MA0344.1_NHP10    | 1.8009e-05     | CTCCCCAG-<br>-TCCCCGN |  |
| MA0056.1_MZF1_1-4 | 2.1928e-05     | CTCCCCAG<br>-TCCCN-   |  |
| MA0332.1_MET28    | 1.3555e-04     | CTCCCCAG<br>--CCACAG  |  |
| MA0268.1_ADR1     | 2.4653e-04     | CTGGGGAG<br>KTGGGN-   |  |

MA0436.1\_YPR022C 2.7222e-04

-CTGGGGAG  
NGTGGGG--



**M37**

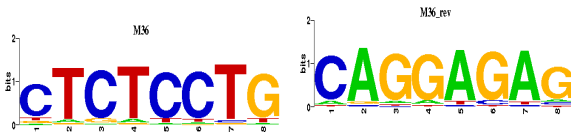


*forward*

*reverse compliment*

| Name               | E value    | Alignment                                | Motif |
|--------------------|------------|------------------------------------------|-------|
| MA0057.1_MZF1_5-13 | 2.3558e-07 | --AGGGGGAG<br>NKAGGGGNAN                 |       |
| MA0079.2_SP1       | 3.0551e-07 | ---CTCCCCCT<br>CCCCNCCCC--               |       |
| MA0366.1_RGM1      | 2.1487e-06 | CTCCCCCT<br>---CCCCT                     |       |
| MA0413.1_USV1      | 2.2673e-06 | -----AGGGGGAG---<br>NNNNNNTTCAGGGGKANNNN |       |
| MA0342.1_MSN4      | 2.4217e-06 | CTCCCCCT<br>---CCCCT                     |       |






**M36**

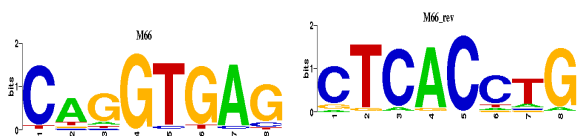






*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

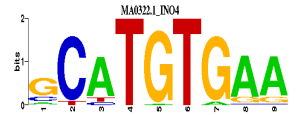
|                  |            |                         |                                                                                     |
|------------------|------------|-------------------------|-------------------------------------------------------------------------------------|
| MA0086.1_sna     | 1.2610e-04 | CTCTCCTG<br>--CACCTG    |  |
| MA0156.1_FEV     | 2.8001e-04 | CAGGAGAG<br>CAGGAART    |  |
| MA0354.1_PDR8    | 6.5772e-04 | CTCTCCTG<br>ATCTCCGN    |  |
| MA0432.1_YNR063W | 7.1500e-04 | CTCTCCTG<br>ATCTCCGA    |  |
| MA0062.1_GABPA   | 1.1868e-03 | --CAGGAGAG<br>ACCGAAGNS |  |

**M66***forward**reverse compliment*

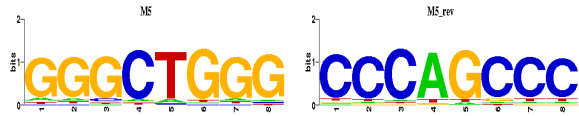
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>       | <i>Motif</i>                                                                          |
|---------------|----------------|------------------------|---------------------------------------------------------------------------------------|
| MA0086.1_sna  | 3.9706e-09     | CTCACCTG<br>--CACCTG   |  |
| MA0409.1_TYE7 | 2.9267e-06     | CTCACCTG<br>-TCACGTG   |  |
| MA0281.1_CBF1 | 1.6995e-05     | CTCACCTG-<br>-TCACGTGN |  |
| MA0103.1_ZEB1 | 2.1032e-05     | CAGGTGAG<br>NAGGTG--   |  |

MA0322.1\_INO4 4.7339e-05

CTCACCTG-  
TTCACATGC



**M5**

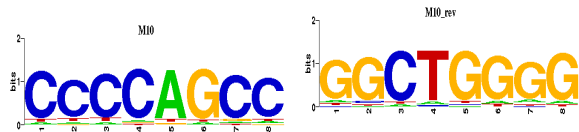


*forward*

*reverse compliment*

| Name          | E value    | Alignment                | Motif |
|---------------|------------|--------------------------|-------|
| MA0079.2_SP1  | 1.7529e-06 | --GGGCTGGG<br>GGGGGNGGGG |       |
| MA0039.2_Klf4 | 5.2571e-05 | -CCCAGCCC-<br>GCCMCRCCCN |       |
| MA0079.1_SP1  | 6.3974e-05 | -CCCAGCCC-<br>ACCCNGCCNN |       |
| MA0267.1_ACE2 | 1.8610e-04 | GGGCTGGG<br>-NGCTGGN     |       |
| MA0402.1_SWI5 | 5.3247e-04 | GGGCTGGG-<br>-TGCTGGTN   |       |



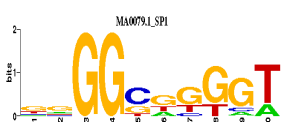


**M10**



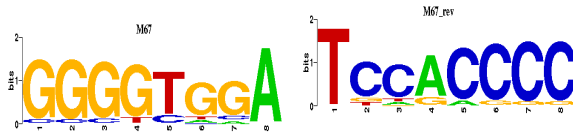
*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|



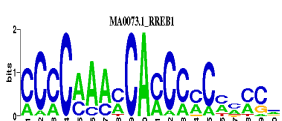

|                |            |                              |                                                                                     |
|----------------|------------|------------------------------|-------------------------------------------------------------------------------------|
| MA0344.1_NHP10 | 1.4041e-05 | -CCCCAGCC<br>TCCCCGGN-       |  |
| MA0039.2_Klf4  | 2.3116e-05 | -CCCCAGCC-<br>GCCMCRCCCN     |  |
| MA0079.1_SP1   | 6.0741e-05 | CCCCAGCC--<br>ACCNGGCCNN     |  |
| MA0155.1_INSM1 | 1.4739e-04 | ---CCCCAGCC-<br>YGCCCCCTGRCA |  |
| MA0332.1_MET28 | 1.4896e-04 | CCCCAGCC<br>CCACAG--         |  |

**M67**



*forward*

*reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                         | <i>Motif</i>                                                                          |
|------------------|----------------|------------------------------------------|---------------------------------------------------------------------------------------|
| MA0443.1_btd     | 1.6602e-06     | --GGGGTGGGA<br>NGKGGGCGGR                |  |
| MA0130.1_ZNF354C | 2.9486e-05     | GGGGTGGGA-<br>---GTGGAK                  |  |
| MA0073.1_RREB1   | 9.4238e-05     | -----TCCACCCC-----<br>CCCCAAAMCACCMMCMCN |  |
| MA0373.1_RPN4    | 3.5492e-04     | -TCCACCCC<br>CGCCACC--                   |  |

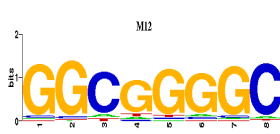
MA0039.2\_Klf4

7.1578e-04

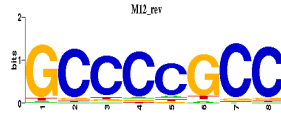
--TCCACCCC  
GCCMCRCCCN



**M12**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0039.2\_Klf4

2.6071e-09

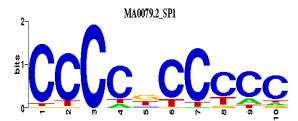
GCCCCGCC--  
GCCMCRCCCN



MA0079.2\_SP1

1.3090e-07

---GGCGGGGC  
GGGGGNGGGG-



MA0079.1\_SP1

2.1757e-07

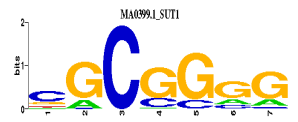
GCCCCGCC--  
ACCCNGCCNN



MA0399.1\_SUT1

6.2092e-07

GGCGGGGC  
CGCGGGG-



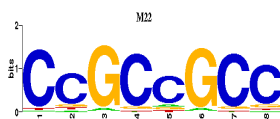
MA0338.1\_MIG2

8.7756e-07

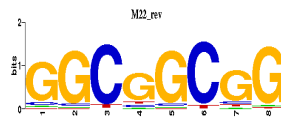
GCCCCGCC  
-CCCCRCN



**M22**



*forward*



*reverse compliment*

*Name*

*E value*

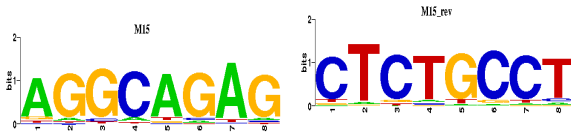
*Alignment*

*Motif*




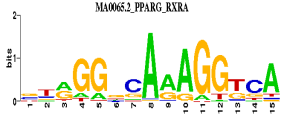


|               |            |                         |                                                                                     |
|---------------|------------|-------------------------|-------------------------------------------------------------------------------------|
| MA0320.1_IME1 | 2.5702e-06 | GCGGCGG<br>CTCGGCGG     |  |
| MA0443.1_btd  | 2.5849e-06 | -CCGCCGCC-<br>YCCGCCMCN |  |
| MA0373.1_RPN4 | 3.4241e-06 | CCGCCGCC<br>-CGCCACC    |  |
| MA0079.2_SP1  | 4.1336e-06 | GCGGCGG--<br>GGGGNGGGG  |  |
| MA0394.1_STP1 | 9.5016e-06 | CCGCCGCC<br>NMGCCGR     |  |

**M15**



*forward*

*reverse compliment*

| Name                | E value    | Alignment                         | Motif                                                                                 |
|---------------------|------------|-----------------------------------|---------------------------------------------------------------------------------------|
| MA0283.1_CHA4       | 3.3590e-05 | -CTCTGCCT<br>NCTCCGCC-            |  |
| MA0065.2_PPARG_RXRA | 9.2717e-05 | ----CTCTGCCT---<br>TGMCCITTGCCYNN |  |
| MA0062.1_GABPA      | 2.5649e-04 | CTCTGCCT--<br>SNCTTCCGGT          |  |
| MA0340.1_MOT3       | 3.1476e-04 | CTCTGCCT-<br>---TRCCTN            |  |

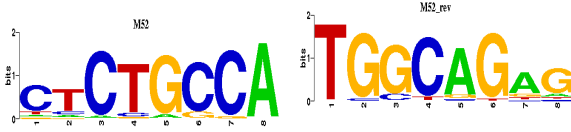
MA0080.2\_SPI1

8.5418e-04

CTCTGCCT  
-ACTTCCT



**M52**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MA0283.1\_CHA4

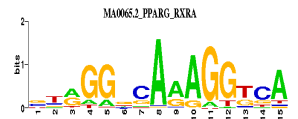
2.0097e-05

-CTCTGCCA  
NCTCCGCC-



MA0065.2\_PPARG\_RXRA 1.1941e-04

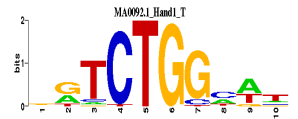
----CTCTGCCA----  
TGMCCTTTGNCCYNN



MA0092.1\_Hand1\_T

2.4959e-04

-TGGCAGAG-  
NWNCCAGAYN



MA0207.1\_achi

2.8822e-04

TGGCAGAG  
TGACAG--



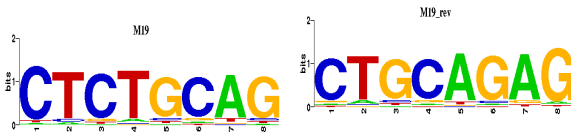
MA0227.1\_hth

5.2398e-04

CTCTGCCA  
--CTGTCA



**M19**



*forward*

*reverse compliment*

*Name*

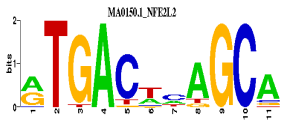
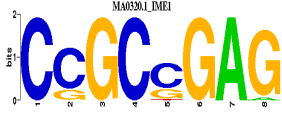


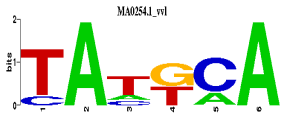
*E value*

*Alignment*

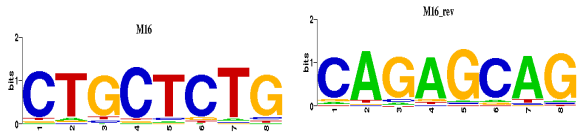
*Motif*

Stamp Results

10/01/13



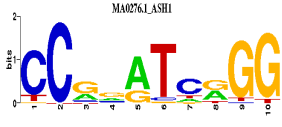

|                 |            |                               |                                                                                     |
|-----------------|------------|-------------------------------|-------------------------------------------------------------------------------------|
| MA0150.1_NFE2L2 | 3.6382e-04 | CTGCAGAG----<br>-TGCTNWTGTCAY |  |
| MA0320.1_IME1   | 8.2000e-04 | CTGCAGAG<br>CCGCCGAG          |  |
| MA0385.1_SOK2   | 9.2422e-04 | -CTCTGCAG--<br>NNNMTGCAKNN    |  |
| MA0062.1_GABPA  | 2.5284e-03 | CTCTGCAG--<br>SNCTTCCGGT      |  |
| MA0254.1_vv1    | 2.6631e-03 | CTGCAGAG<br>-TGMATA-          |  |

M16



*forward*

*reverse compliment*

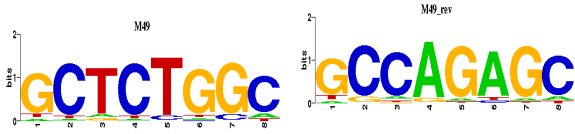
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i>                                                                          |
|---------------|----------------|------------------------------|---------------------------------------------------------------------------------------|
| MA0451.1_kni  | 1.0504e-04     | ----CAGAGCAG<br>AAANTAGAGCAN |  |
| MA0326.1_MAC1 | 6.4579e-04     | CAGAGCAG-<br>-YGAGCAA        |  |
| MA0276.1_ASH1 | 4.2272e-03     | -CTGCTCTG-<br>CCYGATNYGG     |  |
| MA0081.1_SPIB | 8.2785e-03     | CTGCTCTG<br>TTCKST-          |  |

MA0053.1\_MNB1A 1.3457e-02

CAGAGCAG  
-AAAGN--



**M49**



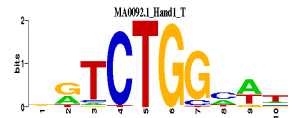
*forward*

*reverse compliment*

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

MA0092.1\_Hand1\_T 3.0205e-05

--GCCAGAGC  
NWNCCAGAYN



MA0278.1\_BAS1 4.3391e-05

-----GCTCTGGC-----  
NNNWNWYTGACTCNGGCYNNNN

MA0332.1\_MET28 2.3304e-04

GCCAGAGC  
-CCACAG-



MA0451.1\_kni 3.6195e-04

--GCCAGAGC--  
AAANTAGAGCAN

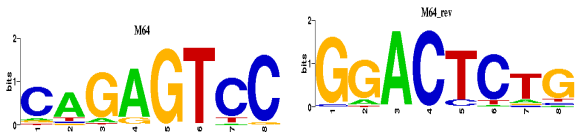


MA0334.1\_MET32 1.5052e-03

GCTCTGGC-  
--TGTGGCN



**M64**



*forward*

*reverse compliment*

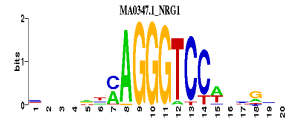
*Name*                      *E value*                      *Alignment*                      *Motif*

Stamp Results

10/01/13

MA0347.1\_NRG1 4.0436e-05

-----GGACTCTG-----  
NNNNNWGGACCCTKNNNNNN

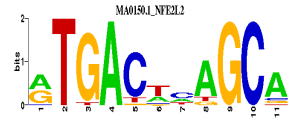


MA0278.1\_BAS1 5.5106e-05

-----CAGAGTCC-----  
NNNNRGCCNGAGTCARNWNNN

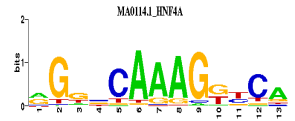
MA0150.1\_NFE2L2 3.2643e-04

--CAGAGTCC--  
TGCTNWTGTCAY



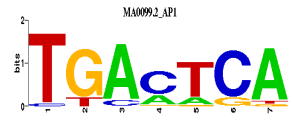
MA0114.1\_HNF4A 4.2677e-04

-GGACTCTG----  
TGNMCTTTGNNCY

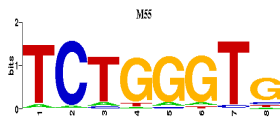


MA0099.2\_API 5.2845e-04

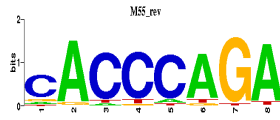
CAGAGTCC  
-TGAGTCA



M55



*forward*



*reverse compliment*

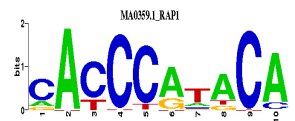
Name E value

Alignment

Motif

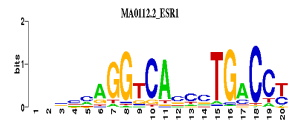
MA0359.1\_RAP1 5.7763e-07

CACCCAGA--  
CACCCATACA



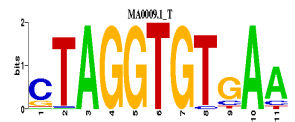
MA0112.2\_ESR1 1.0082e-05

-----CACCCAGA---  
NNNNNAGGTCANNNTGACCY



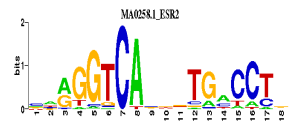
MA0009.1\_T 2.0918e-04

----CACCCAGA  
TTCACACCTAG-



MA0258.1\_ESR2 2.4853e-04

-----CACCCAGA-----  
NAGGNCANNNTGACCYNN

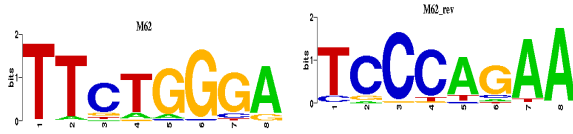


MA0155.1\_INSM1 5.6313e-04

--CACCCAGA--  
YGCCCCCTGRCA



**M62**

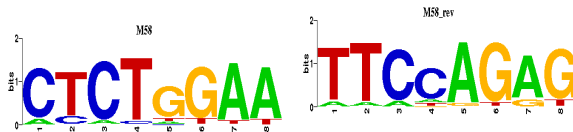


*forward*

*reverse compliment*

| Name            | E value    | Alignment                                   | Motif |
|-----------------|------------|---------------------------------------------|-------|
| MA0137.2_STAT1  | 2.5441e-06 | ---TTCTGGGA---<br>NNNTTCCNGGAARNN           |       |
| MA0088.1_znf143 | 7.9186e-06 | -----TTCTGGGA-----<br>KCNNKGMANNMTGGGANNNN  |       |
| MA0144.1_Stat3  | 1.0055e-04 | TTCTGGGA--<br>TTCCNGGAAG                    |       |
| MA0413.1_USV1   | 1.2779e-03 | -----TTCTGGGA-----<br>NNNNNNNTTCAGGGGKANNNN |       |
| MA0362.1_RDS2   | 1.5203e-03 | TTCTGGGA<br>NTCGGGG-                        |       |

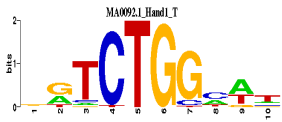
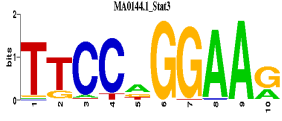
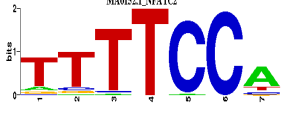


**M58**



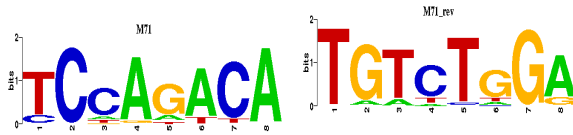
*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

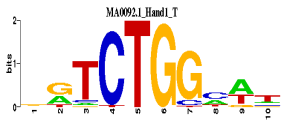
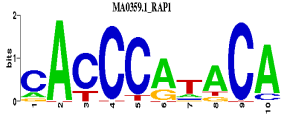


|                  |            |                          |                                                                                     |
|------------------|------------|--------------------------|-------------------------------------------------------------------------------------|
| MA0092.1_Hand1_T | 1.0534e-05 | -TTCCAGAG-<br>NWNCCAGAYN |  |
| MA0144.1_Stat3   | 3.1720e-05 | TTCCAGAG--<br>TTCCNGGAAG |  |
| MA0152.1_NFATC2  | 2.0294e-04 | CTCTGGAA--<br>---TGGAAAA |  |
| MA0332.1_MET28   | 2.4784e-04 | TTCCAGAG<br>--CCACAG     |  |
| MA0319.1_HSF1    | 7.5317e-04 | --TTCCAGAG<br>NNTTCCAT-- |  |

**M71**



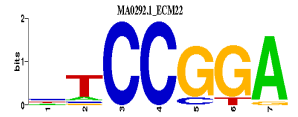
*forward*

*reverse compliment*

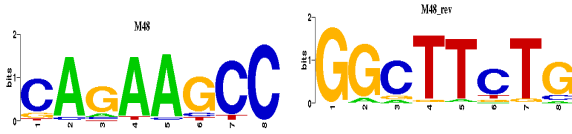
| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i>                                                                          |
|------------------|----------------|------------------------------|---------------------------------------------------------------------------------------|
| MA0092.1_Hand1_T | 2.9253e-05     | TGTCTGGA--<br>NRTCCTGGNWN    |  |
| MA0359.1_RAP1    | 9.5897e-05     | TGTCTGGA--<br>TGTATGGGTG     |  |
| MA0155.1_INSM1   | 1.4714e-04     | ----TCCAGACA<br>YGCCCCCTGRCA |  |
| MA0266.1_ABF2    | 1.0652e-03     | TGTCTGGA-<br>--TCTAGAN       |  |

MA0292.1\_ECM22 1.1986e-03

TCCAGACA  
TCCGGAN-



**M48**

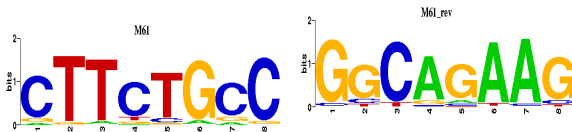


*forward*

*reverse compliment*

| Name           | E value    | Alignment                            | Motif |
|----------------|------------|--------------------------------------|-------|
| MA0260.1_che-1 | 1.2673e-06 | GGCTTCTG<br>GGYTTC--                 |       |
| MA0304.1_GCR1  | 3.0141e-06 | GGCTTCTG<br>GGCTTCCA                 |       |
| MA0454.1_odd   | 1.8287e-04 | -GGCTTCTG--<br>NTGCTACTGTN           |       |
| MA0305.1_GCR2  | 1.8836e-04 | GGCTTCTG<br>-GCTTCCN                 |       |
| MA0290.1_DAL81 | 1.0773e-03 | -----GGCTTCTG<br>AATCCCGCCCGGGCTTTT- |       |

**M61**



*forward*

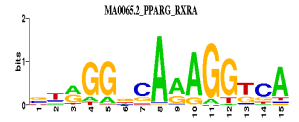
*reverse compliment*

Name E value Alignment Motif



MA0065.2\_PPARG\_RXRA 3.4421e-04

---CTTCTGCC---  
TGMCCTTTGNCCYNN



MA0287.1\_CUP2 5.1650e-04

--CTTCTGCC-  
CWTTTTYGCTG



MA0026.1\_Eip74EF 2.5053e-03

CTTCTGCC  
YTTCGG-



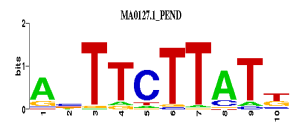
MA0360.1\_RDR1 2.5231e-03

CTTCTGCC  
NTTCGCN

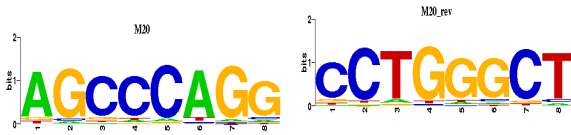


MA0127.1\_PEND 3.8075e-03

-GGCAGAAG-  
MATAAGAANT



**M20**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

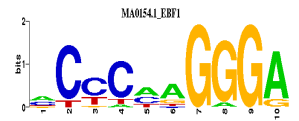
MA0162.1\_Egr1 4.0524e-04

-AGCCCAGG--  
MCGCCCACGCN



MA0154.1\_EBF1 8.0215e-04

--CCTGGGCT  
TCCCTNGGNN



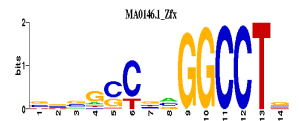
MA0368.1\_RIM101 8.7558e-04

AGCCCAGG  
YGCCAAG-



MA0146.1\_Zfx 1.5097e-03

--AGCCCAGG---  
NNGCCNNGCCTN

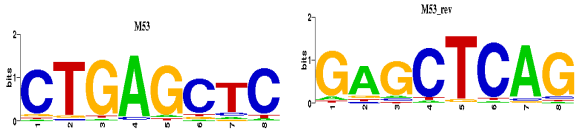


MA0163.1\_PLAG1 1.5415e-03

--AGCCCAGG----  
GGGGCCNAAGGGGG



**M53**

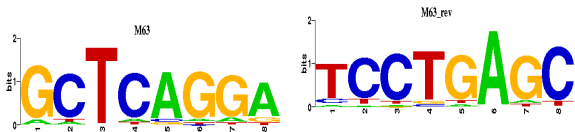


*forward*

*reverse compliment*

| Name                 | E value    | Alignment                                 | Motif |
|----------------------|------------|-------------------------------------------|-------|
| MA0326.1_MAC1        | 1.9063e-03 | CTGAGCTC--<br>-YGAGCAAA                   |       |
| MA0350.1_TOD6        | 3.0924e-03 | -----GAGCTCAG-----<br>NNNNNNASCATCGCNNNNN |       |
| MA0074.1_RXRA_VDR    | 5.2452e-03 | CTGAGCTC-----<br>-TGAACYCNNTGACCC         |       |
| MA0159.1_RXR_RAR_DR5 | 5.4122e-03 | CTGAGCTC-----<br>-TGACCTNYNNNTGAMCY       |       |
| MA0112.2_ESR1        | 6.2525e-03 | GAGCTCAG-----<br>-RGGTCANNNTGACCTNNNNN    |       |

**M63**



*forward*

*reverse compliment*

| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13

MA0156.1\_FEV 8.0177e-04

---TCCTGAGC  
AYTTCCTG---



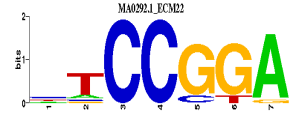
MA0150.1\_NFE2L2 8.8497e-04

TCCTGAGC---  
TGCTNWTCA Y



MA0292.1\_ECM22 1.0974e-03

GCTCAGGA  
-NTCCGGA



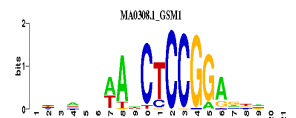
MA0326.1\_MAC1 1.8992e-03

TCCTGAGC---  
---YGAGCAA

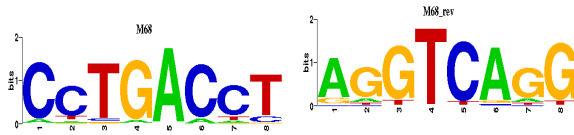


MA0308.1\_GSM1 2.1978e-03

-----TCCTGAGC-----  
NNNNNTCCGGAGNTWNNNNNN



M68



*forward*

*reverse compliment*

*Name*

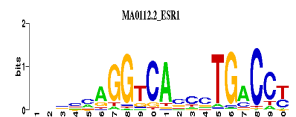
*E value*

*Alignment*

*Motif*

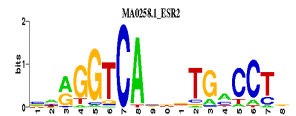
MA0112.2\_ESR1 1.3216e-09

AGGTCAGG-----  
RGGTCANNNTGACCTNNNNN



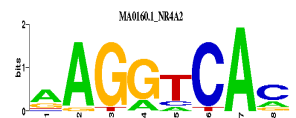
MA0258.1\_ESR2 1.5340e-07

-----CCTGACCT--  
NAGGNCANNNTGACCYYN



MA0160.1\_NR4A2 2.2209e-06

-AGGTCAGG  
AAGGTCAC-



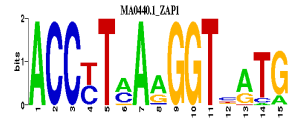
MA0071.1\_RORA\_1 1.3521e-05

CCTGACCT----  
--TGACCTNNWW

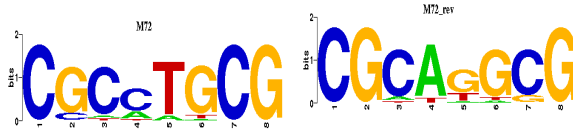


MA0440.1\_ZAP1 2.6263e-05

-----AGGTCAGG  
ACCYTMAAGGTNATG



**M72**



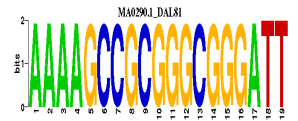
*forward*

*reverse compliment*

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

MA0290.1\_DAL81 1.0133e-05

-----CGCCTGCG-----  
AATCCCGCCCCGCGGCTTTT



MA0086.1\_sna 3.9293e-04

CGCCTGCG  
CACCTG--



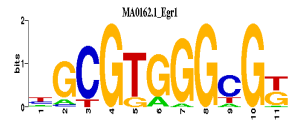
MA0364.1\_REI1 7.3043e-04

CGCAGGCG  
-NCAGGGG



MA0162.1\_Egr1 1.5152e-03

-CGCCTGCG--  
MCGCCCACGCN



MA0048.1\_NHLH1 3.6914e-03

---CGCCTGCG-  
NCGCAGCTGCGN



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