



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

Input file: 71 motifs loaded

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

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

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

```

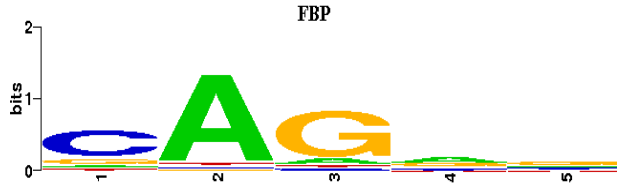
## Stamp Results

10/01/13

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

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

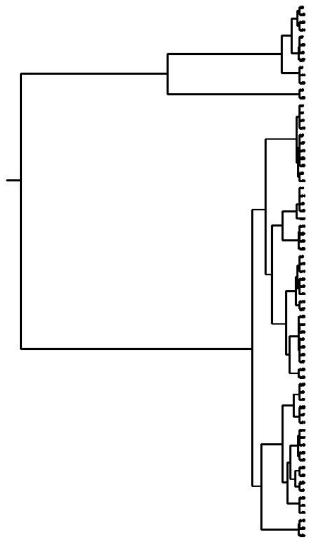
**Familial Profile:**  
[\(click for matrix\)](#)



## Motif Tree

Tree (drawn by **Phylip**)

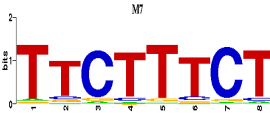



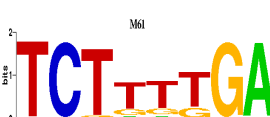

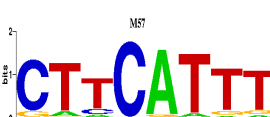

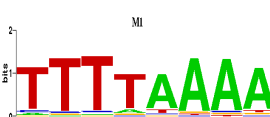
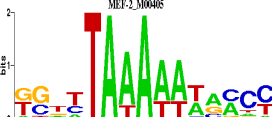
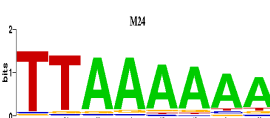
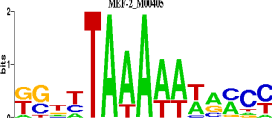
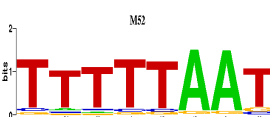



[Click here for Newick-format tree \(viewable with MEGA\)](#)

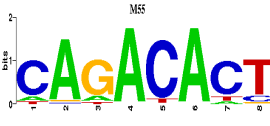

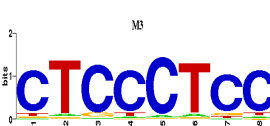

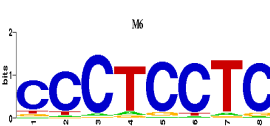

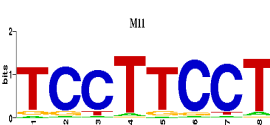

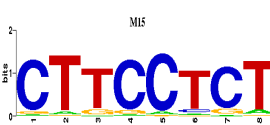

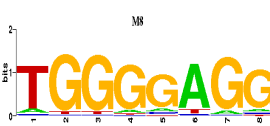

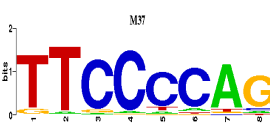
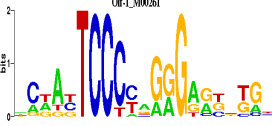
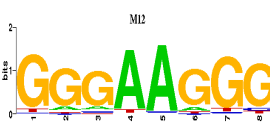



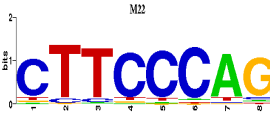





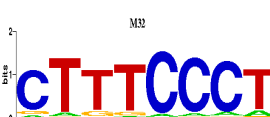

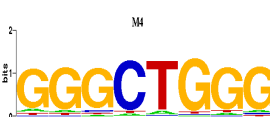

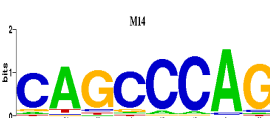

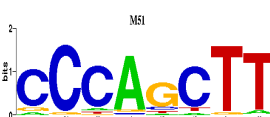

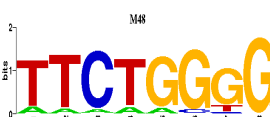

Input Motif

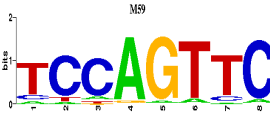

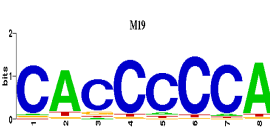

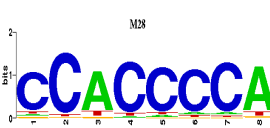

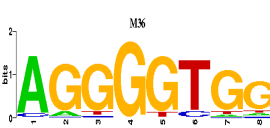

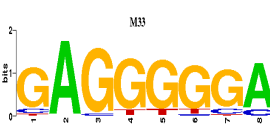

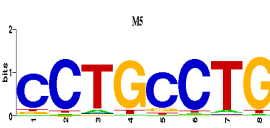

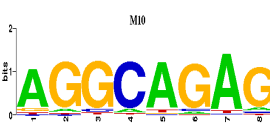

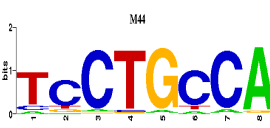

Best match in TRANSFAC

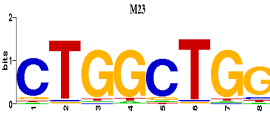

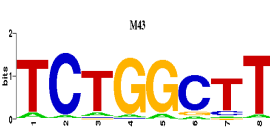

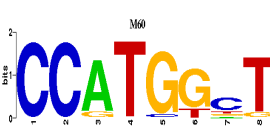

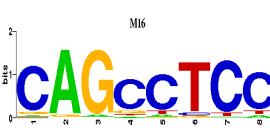

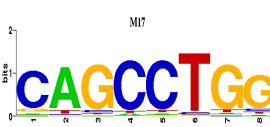
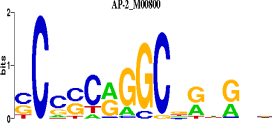
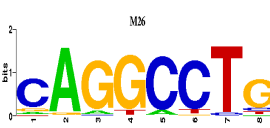

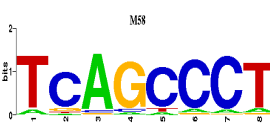

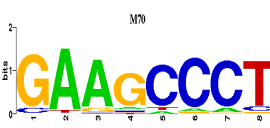

| Input Motif    | Best match in TRANSFAC                  |
|----------------|---|
| <br><b>M0</b>  | <br>Hb_M00022<br>(E val: 1.1189e-06)    |
| <br><b>M42</b> | <br>dl_M00120<br>(E val: 3.0794e-07)    |
| <br><b>M35</b> | <br>SRY_M00148<br>(E val: 3.2342e-07)   |
| <br><b>M54</b> | <br>FOXP3_M00992<br>(E val: 1.5362e-09) |
|                |   |

|  |   |
|--|---|
|  <p><b>M7</b></p>    |  <p><b>STE11_M01005</b><br/>(E val: 2.2888e-07)</p>    |
|  <p><b>M62</b></p>   |  <p><b>PR_M00960</b><br/>(E val: 6.3368e-07)</p>       |
|  <p><b>M61</b></p>   |  <p><b>Barbie_M00238</b><br/>(E val: 8.6301e-06)</p>   |
|  <p><b>M57</b></p>   |  <p><b>ICSBP_M00699</b><br/>(E val: 1.1443e-06)</p>    |
|  <p><b>M1</b></p>   |  <p><b>MEF-2_M00405</b><br/>(E val: 2.5579e-06)</p>   |
|  <p><b>M24</b></p> |  <p><b>MEF-2_M00405</b><br/>(E val: 1.8058e-07)</p>  |
|  <p><b>M52</b></p> |  <p><b>Nkx6-1_M00424</b><br/>(E val: 2.2137e-07)</p> |
|  <p><b>M2</b></p>  |  <p><b>CACD_M01113</b><br/>(E val: 1.2379e-05)</p>   |
|  |   |

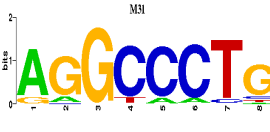

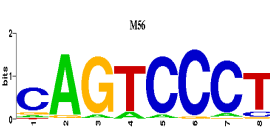

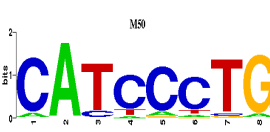

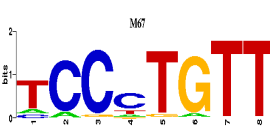

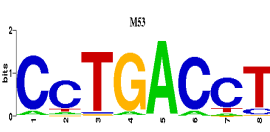

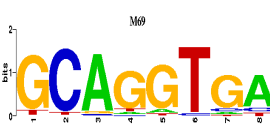

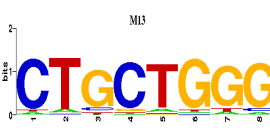

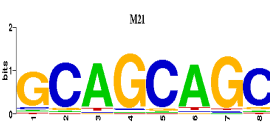
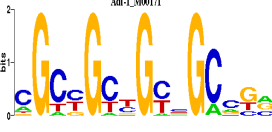
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|--|--|
|  <p><b>M55</b></p>   |  <p><b>SMAD_M00974</b><br/>(E val: 4.2037e-05)</p>        |
|  <p><b>M3</b></p>    |  <p><b>TFII-I_M00706</b><br/>(E val: 8.4995e-09)</p>      |
|  <p><b>M6</b></p>    |  <p><b>MAZ_M00649</b><br/>(E val: 2.0488e-07)</p>         |
|  <p><b>M11</b></p>   |  <p><b>Tel-2_M00678</b><br/>(E val: 7.9265e-08)</p>       |
|  <p><b>M15</b></p>  |  <p><b>PU.1_M00658</b><br/>(E val: 4.9782e-11)</p>       |
|  <p><b>M8</b></p>  |  <p><b>Sp3_M00665</b><br/>(E val: 1.4194e-08)</p>       |
|  <p><b>M37</b></p> |  <p><b>Olf-1_M00261</b><br/>(E val: 3.3799e-07)</p>     |
|  <p><b>M12</b></p> |  <p><b>UF1H3BETA_M01068</b><br/>(E val: 2.8532e-07)</p> |
|  |  |



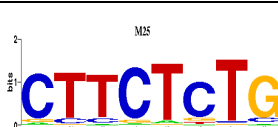
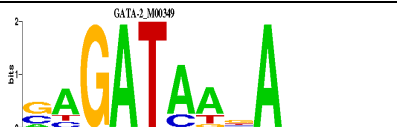
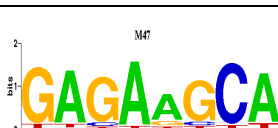
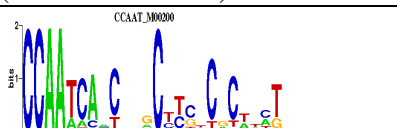






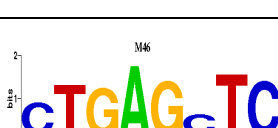


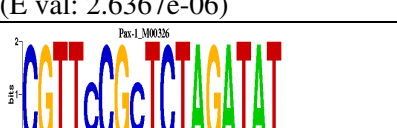
|  |  |
|--|--|
| <p>M22</p>  <p>M22</p>   | <p>Ik-3_M00088</p>  <p>Ik-3_M00088<br/>(E val: 6.8911e-07)</p>                |
| <p>M65</p>  <p>M65</p>   | <p>NF-kappaB_M00208</p>  <p>NF-kappaB_M00208<br/>(E val: 5.0309e-08)</p>      |
| <p>M9</p>  <p>M9</p>     | <p>MAZ_M00649</p>  <p>MAZ_M00649<br/>(E val: 1.0898e-06)</p>                  |
| <p>M32</p>  <p>M32</p>   | <p>BLIMP1_M01066</p>  <p>BLIMP1_M01066<br/>(E val: 2.3217e-10)</p>            |
| <p>M4</p>  <p>M4</p>    | <p>CAC-binding_M00720</p>  <p>CAC-binding_M00720<br/>(E val: 6.8691e-09)</p> |
| <p>M14</p>  <p>M14</p> | <p>YY1_M00069</p>  <p>YY1_M00069<br/>(E val: 3.7746e-05)</p>                |
| <p>M51</p>  <p>M51</p> | <p>LUN-1_M00480</p>  <p>LUN-1_M00480<br/>(E val: 2.8286e-07)</p>            |
| <p>M48</p>  <p>M48</p> | <p>STAT_M00777</p>  <p>STAT_M00777<br/>(E val: 2.1539e-06)</p>              |
|  |  |

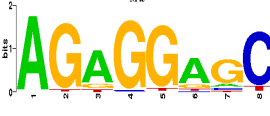

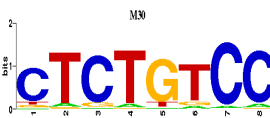

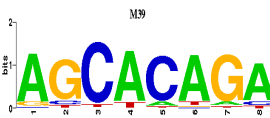





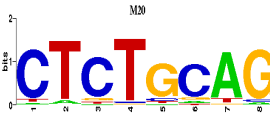

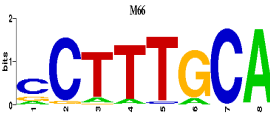

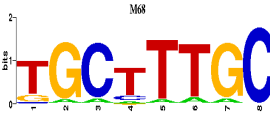

|  |  |
|--|--|
|  <p><b>M59</b></p>   |  <p><b>Pax-6_M00979</b><br/>(E val: 4.3306e-06)</p>   |
|  <p><b>M19</b></p>   |  <p><b>GBF_M00633</b><br/>(E val: 7.3608e-14)</p>     |
|  <p><b>M28</b></p>   |  <p><b>SREBP-1_M00221</b><br/>(E val: 8.6582e-09)</p> |
|  <p><b>M36</b></p>   |  <p><b>Alfin1_M00479</b><br/>(E val: 4.7442e-08)</p>  |
|  <p><b>M33</b></p>  |  <p><b>MZF1_M00084</b><br/>(E val: 3.0662e-10)</p>   |
|  <p><b>M5</b></p>  |  <p><b>E2A_M00973</b><br/>(E val: 1.0049e-05)</p>   |
|  <p><b>M10</b></p> |  <p><b>Dde_M00304</b><br/>(E val: 3.1300e-06)</p>   |
|  <p><b>M44</b></p> |  <p><b>KAISO_M01119</b><br/>(E val: 4.0625e-08)</p> |
|  |  |

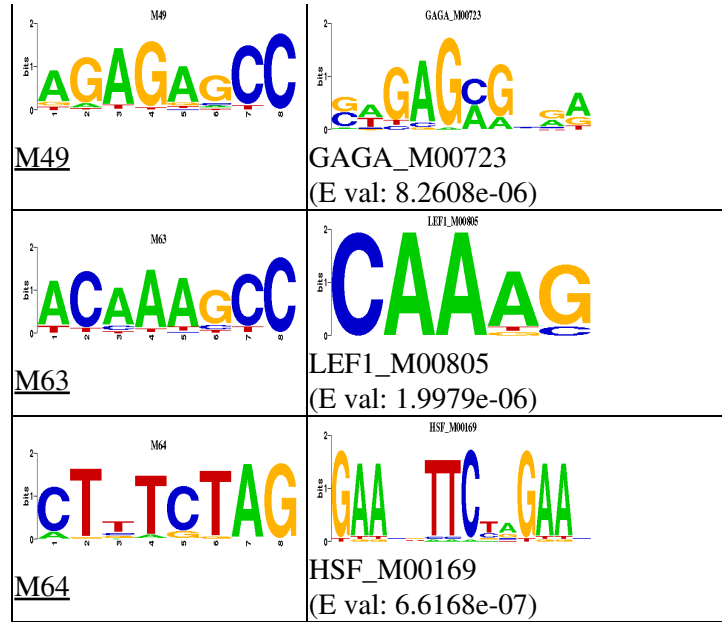
|  |   |
|--|---|
|  <p><b>M23</b></p>   |  <p><b>BRK_M01096</b><br/>(E val: 2.0642e-05)</p>                    |
|  <p><b>M43</b></p>   |  <p><b>Grainyhead-Elf-1-NTF-1_M00951</b><br/>(E val: 1.4839e-05)</p> |
|  <p><b>M60</b></p>   |  <p><b>RFX1_M00281</b><br/>(E val: 6.2514e-07)</p>                   |
|  <p><b>M16</b></p>   |  <p><b>SMAD4_M00733</b><br/>(E val: 8.5980e-05)</p>                  |
|  <p><b>M17</b></p>  |  <p><b>AP-2_M00800</b><br/>(E val: 5.4855e-05)</p>                  |
|  <p><b>M26</b></p> |  <p><b>ZBRK1_M01105</b><br/>(E val: 5.2069e-04)</p>                |
|  <p><b>M58</b></p> |  <p><b>Dde_M00304</b><br/>(E val: 2.5519e-06)</p>                  |
|  <p><b>M70</b></p> |  <p><b>NF-kappaB_M00051</b><br/>(E val: 2.2666e-04)</p>            |
|  |   |



|  |   |
|--|---|
|  <p><b>M31</b></p>   |  <p><b>Ttk_M00009</b><br/>(E val: 8.5688e-04)</p>        |
|  <p><b>M56</b></p>   |  <p><b>NF-kappaB_M00208</b><br/>(E val: 4.6433e-05)</p>  |
|  <p><b>M50</b></p>   |  <p><b>Sry-beta_M00666</b><br/>(E val: 8.2631e-05)</p>   |
|  <p><b>M67</b></p>   |  <p><b>GATA-4_M00632</b><br/>(E val: 1.9789e-07)</p>     |
|  <p><b>M53</b></p>  |  <p><b>MEF-3_M00319</b><br/>(E val: 5.2632e-07)</p>     |
|  <p><b>M69</b></p> |  <p><b>myogenin_M00712</b><br/>(E val: 8.0518e-09)</p> |
|  <p><b>M13</b></p> |  <p><b>LMAF_M01139</b><br/>(E val: 1.4572e-06)</p>     |
|  <p><b>M21</b></p> |  <p><b>Adf-1_M00171</b><br/>(E val: 1.4313e-06)</p>    |
|  |   |

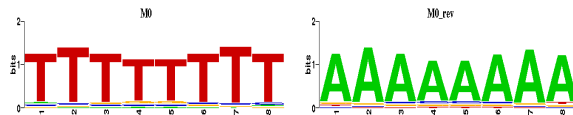
|  |  |
|--|--|
|  <p><b>M27</b></p>   |  <p><b>c-Ets-1_M00743</b><br/>(E val: 1.2242e-06)</p> |
|  <p><b>M25</b></p>   |  <p><b>GATA-2_M00349</b><br/>(E val: 2.3530e-05)</p>  |
|  <p><b>M47</b></p>   |  <p><b>CCAAT_M00200</b><br/>(E val: 5.9333e-05)</p>   |
|  <p><b>M34</b></p>   |  <p><b>KAISO_M01119</b><br/>(E val: 1.9527e-04)</p>   |
|  <p><b>M18</b></p>  |  <p><b>Eve_M00629</b><br/>(E val: 7.3252e-06)</p>    |
|  <p><b>M40</b></p> |  <p><b>CDC5_M00361</b><br/>(E val: 4.7615e-07)</p>  |
|  <p><b>M46</b></p> |  <p><b>Dde_M00304</b><br/>(E val: 2.6367e-06)</p>   |
|  <p><b>M29</b></p> |  <p><b>Pax-1_M00326</b><br/>(E val: 6.3753e-06)</p> |
|  |  |

|  |  |
|--|--|
|  <p><b>M45</b></p>   |  <p><b>Elf-1_M00746</b><br/>(E val: 4.2090e-05)</p>   |
|  <p><b>M30</b></p>   |  <p><b>NRSF_M00256</b><br/>(E val: 2.4760e-07)</p>    |
|  <p><b>M39</b></p>   |  <p><b>SEF-1_M00214</b><br/>(E val: 4.1133e-06)</p>   |
|  <p><b>M38</b></p>   |  <p><b>Ovo_M00461</b><br/>(E val: 1.7993e-05)</p>     |
|  <p><b>M41</b></p>  |  <p><b>LF-A1_M00646</b><br/>(E val: 9.1975e-07)</p>  |
|  <p><b>M20</b></p> |  <p><b>LMAF_M01139</b><br/>(E val: 1.3463e-05)</p>  |
|  <p><b>M66</b></p> |  <p><b>OCT-x_M00210</b><br/>(E val: 4.2088e-07)</p> |
|  <p><b>M68</b></p> |  <p><b>Oct-1_M00195</b><br/>(E val: 2.0779e-07)</p> |
|  |  |



### Motif Similarity Matches

**M0**

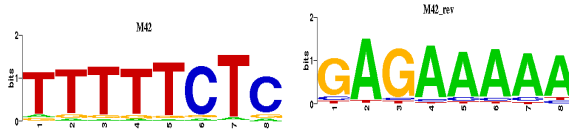


*forward*

*reverse compliment*

| Name          | E value    | Alignment                             | Motif |
|---------------|------------|---------------------------------------|-------|
| Hb_M00022     | 1.1189e-06 | -TTTTTTTT<br>NTTTTTNYK                |       |
| MEF-2_M00006  | 2.2522e-06 | ----TTTTTTTT--<br>RGRGTTATTTTTAGA     |       |
| MEF-2_M00406  | 2.9619e-06 | ----TTTTTTTT--<br>NGGGTTATTTTTAGM     |       |
| aMEF-2_M00403 | 4.3909e-06 | ----TTTTTTTT----<br>KKRGNTATTTTTARNCM |       |
| MEF-2_M00405  | 5.4389e-06 | --TTTTTTTT----<br>RGKNWTTTTTANNSM     |       |

**M42**

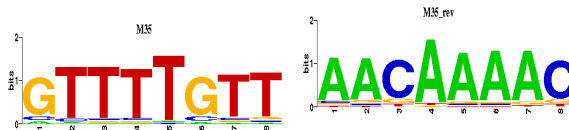


*forward*

*reverse compliment*

| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|---------------|----------------|------------------------------|--------------|
| dl_M00120     | 3.0794e-07     | --TTTTTCTC<br>NGNTTTCYC      |              |
| Alx-4_M00619  | 6.0518e-07     | --TTTTTCTC--<br>GATTATTCTCAG |              |
| ARF_M00438    | 2.0308e-06     | GAGAAAA<br>GAGACAA-          |              |
| dl_M00043     | 1.8913e-05     | GAGAAAA--<br>NGGAAAAACC      |              |
| Helios_M01004 | 1.9422e-04     | -TTTTTCTC-<br>NTTTTCTWN      |              |

**M35**

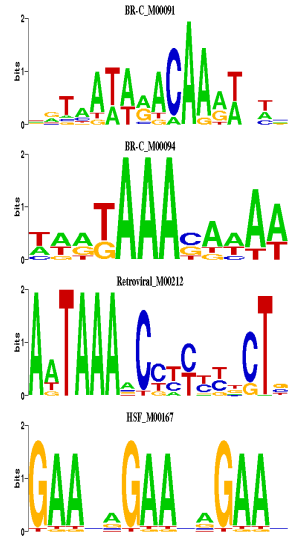


*forward*

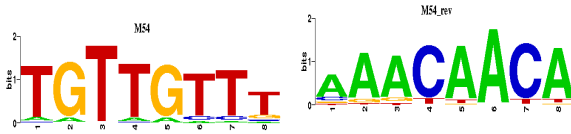
*reverse compliment*

| <i>Name</i> | <i>E value</i> | <i>Alignment</i>     | <i>Motif</i> |
|-------------|----------------|----------------------|--------------|
| SRY_M00148  | 3.2342e-07     | GTTTIGTT<br>--KNTGTT |              |

|                   |            |                                     |
|-------------------|------------|-------------------------------------|
| BR-C_M00091       | 1.5623e-06 | --GTTTGTGTT-----<br>NNNWTGTYTATNANN |
| BR-C_M00094       | 3.5675e-06 | GTTTGTGTT-----<br>-TTWISTTTAYWW     |
| Retroviral_M00212 | 5.8255e-06 | -----GTTTGTGTT<br>NAGNRRRRRGNTTTATT |
| HSF_M00167        | 7.5372e-06 | -----GTTTGTGTT-<br>NTTCNNTTCNNTTC   |



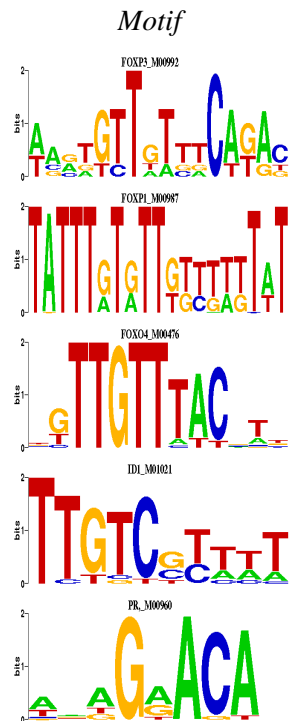
**M54**



*forward*

*reverse compliment*

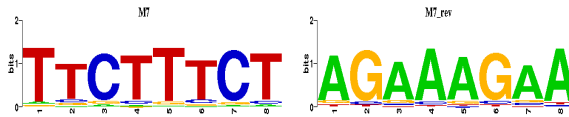
| Name                | E value           | Alignment                                 |
|---------------------|-------------------|---|
| <b>FOXP3_M00992</b> | <b>1.5362e-09</b> | ---TGTTGTTT-----<br>WNNNGTTNTNNCAPAN      |
| FOXP1_M00987        | 4.5067e-08        | -----AAACAACA-----<br>ATAAAAAACAACACAAATA |
| FOXO4_M00476        | 2.1810e-07        | -----AAACAACA<br>NANGTAAACAACN            |
| ID1_M01021          | 7.4276e-06        | -AAACAACA-<br>AWAASGACAA                  |
| PR_M00960           | 9.2862e-06        | -TGTTGTTT<br>NIGTYCNNW                    |



Stamp Results

10/01/13

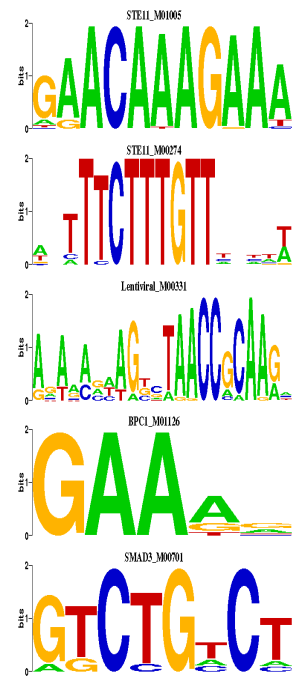
**M7**



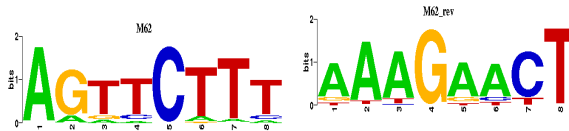
*forward*

*reverse compliment*

| Name              | E value    | Alignment                               |
|-------------------|------------|---|
| STE11_M01005      | 2.2888e-07 | -TTCTTTCT--<br>TTTCTTTGTTT              |
| STE11_M00274      | 3.2103e-06 | -----AGAAAGAA---<br>WNNNNAACAAAGAAANW   |
| Lentiviral_M00331 | 9.3538e-06 | AGAAAGAA-----<br>ANARANNAGNNTAACCGCAAGN |
| BPC1_M01126       | 1.7398e-05 | TTCTTTCT<br>--NTTTC-                    |
| SMAD3_M00701      | 2.3504e-05 | AGAAAGAA<br>AGNCAGAC                    |



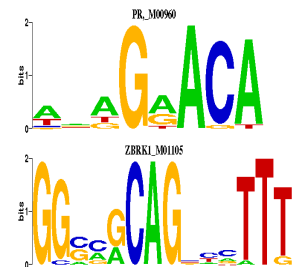
**M62**



*forward*

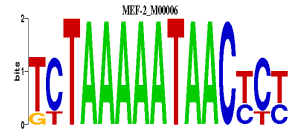
*reverse compliment*

| Name         | E value    | Alignment                      |
|--------------|------------|--------------------------------|
| PR_M00960    | 6.3368e-07 | AAAGAACT-<br>WNNGRACAN         |
| ZBRK1_M01105 | 1.7613e-06 | AAAGAACT-----<br>AAANNCTGCKSCC |



MEF-2\_M00006 1.2030e-05

-----AAAGAACT--  
TCTAAAATAACYCY



PEND\_M01015 1.7763e-05

AGTTCTTT  
ACTTCTT-

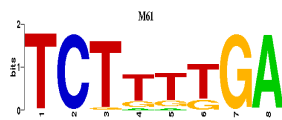


STE11\_M01005 2.9361e-05

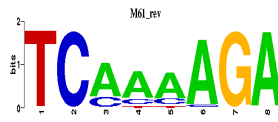
----AAAGAACT  
GAACAAAGAAA-



**M61**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

Barbie\_M00238

8.6301e-06

-----TCTTTTGA  
CMNNCNSCTTTNNN



BRCA1-USF2\_M01082 1.7360e-04

TCAAAAGA  
-CAACNNN



HP1\_M00725

1.8130e-04

TCTTTTGA----  
-CTGTTGAAWAT



RAV1\_M00343

3.3229e-04

--TCTTTTGA-  
NNWNTGTTGCN



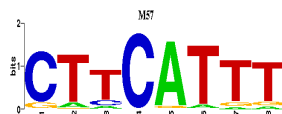
TCF-4\_M00671

4.2025e-04

-TCAAAAGA  
WTCAAAG--



**M57**





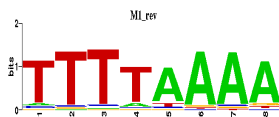
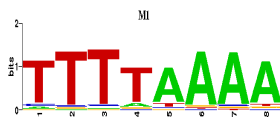
*forward*



*reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                | <i>Motif</i> |
|-------------------|----------------|---------------------------------|--------------|
| ICSBP_M00699      | 1.1443e-06     | ---CTTCATTT<br>CAGTTTCAYTT      |              |
| Lentiviral_M00318 | 3.6114e-06     | CTTCATTT<br>CTTTATT-            |              |
| IRF_M00772        | 1.6831e-05     | ----CTTCATTT--<br>NNNSTTTCANTYY |              |
| OCT-x_M00210      | 7.0304e-05     | CTTCATTT-----<br>--TNATTGTCATY  |              |
| DEC_M00997        | 7.5573e-05     | -CTTCATTT---<br>NNNTCACNTGNN    |              |

**M1**

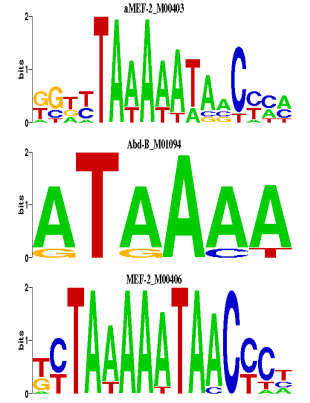


*forward*

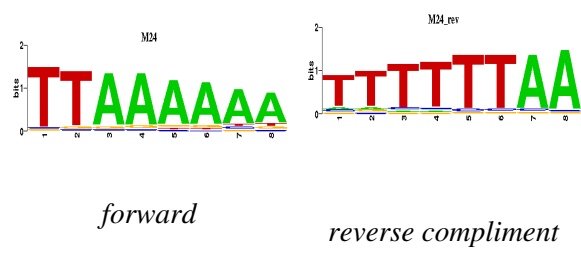
*reverse compliment*

| <i>Name</i>  | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|--------------|----------------|-----------------------------------|--------------|
| MEF-2_M00405 | 2.5579e-06     | -TTTTAAAA-----<br>KSNNTAAAAAWNMCY |              |
| TATA_M00216  | 5.7085e-06     | -TTTTAAAA<br>NTTTTATAG            |              |

|               |            |                                     |
|---------------|------------|-------------------------------------|
| aMEF-2_M00403 | 1.7211e-05 | -----TTTAAAA--<br>KCRGNTATTTTTARNCM |
| Abd-B_M01094  | 2.5255e-05 | TTTTAAAA<br>TTTTAT--                |
| MEF-2_M00406  | 1.3126e-04 | TTTTAAAA-----<br>-KCTAAAAATAACCCN   |

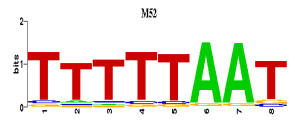


**M24**

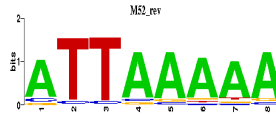


| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>                      | <i>Motif</i> |
|---------------|----------------|---------------------------------------|--------------|
| MEF-2_M00405  | 1.8058e-07     | ----TTTTTTAA---<br>RGKNWTTTTTANNMS    |              |
| aMEF-2_M00403 | 5.2532e-06     | -----TTTTTTAA---<br>KCRGNTATTTTTARNCM |              |
| Hb_M00022     | 1.2098e-05     | TTTTTTAA-<br>NTTTTTNYK                |              |
| Abd-B_M01094  | 2.3550e-05     | TTTTTTAA<br>--TTTTAT                  |              |
| MEF-2_M00406  | 3.7864e-05     | -----TTTTTTAA-<br>NCGGTTATTTTTAGM     |              |

**M52**

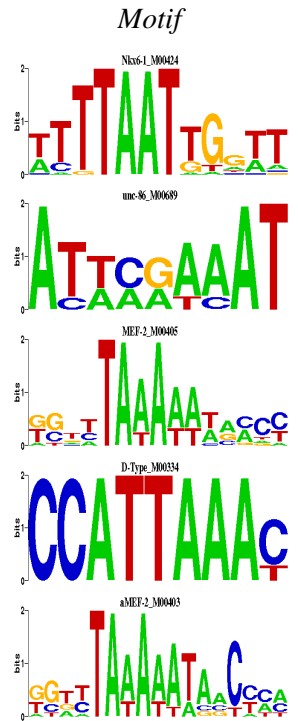


*forward*

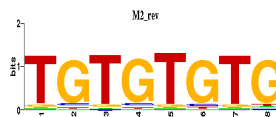
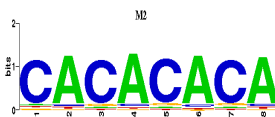


*reverse compliment*

| Name          | E value    | Alignment                             |
|---------------|------------|---------------------------------------|
| Nkx6-1_M00424 | 2.2137e-07 | -----ATTAAAAA<br>AANCAATTAAAW--       |
| unc-86_M00689 | 2.6586e-07 | ATTAAAAA--<br>ATWMRAAAT               |
| MEF-2_M00405  | 4.4936e-06 | -----TTTTTAAT--<br>RGKNWTTTTTANNSM    |
| D-Type_M00334 | 5.2287e-06 | --ATTAAAAA<br>CCATTAAAC--             |
| aMEF-2_M00403 | 5.8950e-06 | -----TTTTTAAT--<br>KKRGN TATTTTTARNCM |



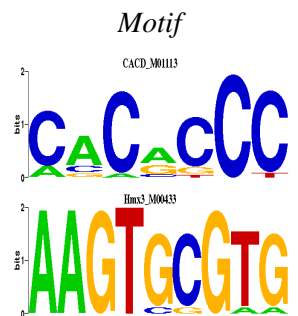
**M2**



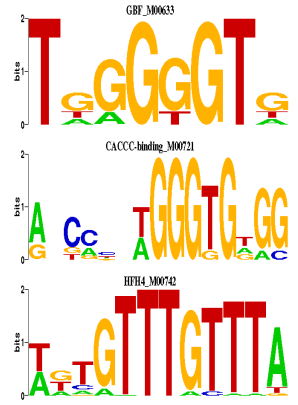
*forward*

*reverse compliment*

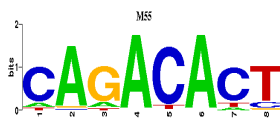
| Name        | E value    | Alignment               |
|-------------|------------|-------------------------|
| CACD_M01113 | 1.2379e-05 | TGTGTGTG<br>-GGYGTG     |
| Hmx3_M00433 | 6.5951e-05 | CACACACA--<br>CACGCACTT |



|                      |            |                                   |
|----------------------|------------|-----------------------------------|
| GBF_M00633           | 7.6377e-05 | CACACACA<br>NACCCNA               |
| CACCC-binding_M00721 | 8.0038e-05 | -CACACACA-----<br>CCNCACCCWNNKGNT |
| HFH4_M00742          | 8.3123e-05 | ----CACACACA<br>TAAACAAACAMW      |



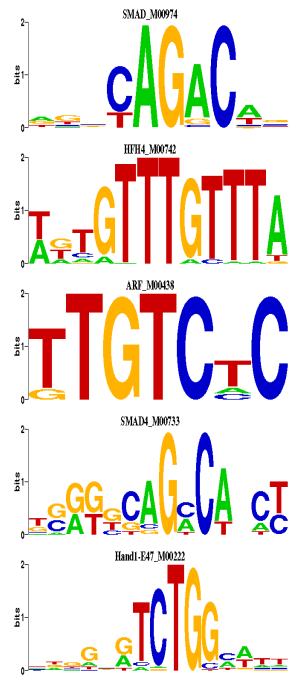
**M55**



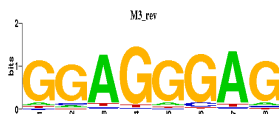
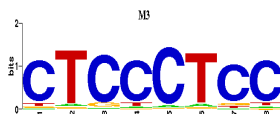
*forward*

*reverse compliment*

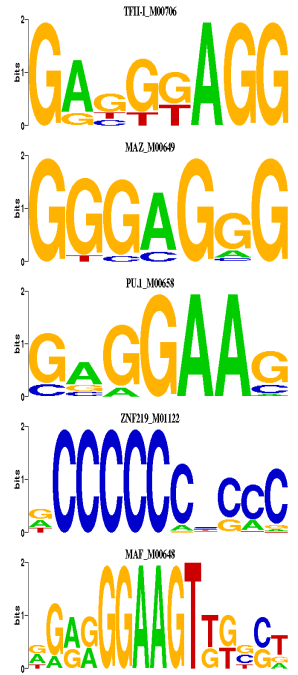
| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|------------------|----------------|-----------------------------------|--------------|
| SMAD_M00974      | 4.2037e-05     | AGTGTCTG---<br>-NWGTC TGNNN       |              |
| HFH4_M00742      | 1.2318e-04     | ----CAGACACT<br>TAAACAAACAMW      |              |
| ARF_M00438       | 2.2424e-04     | CAGACACT<br>GAGACAA-              |              |
| SMAD4_M00733     | 3.1275e-04     | -AGTGTCTG-----<br>RGNTGKCTGNMYSN  |              |
| Hand1-E47_M00222 | 4.8732e-04     | --AGTGTCTG-----<br>NNNGNRTCTGGNWN |              |



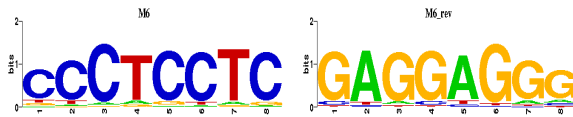
**M3**



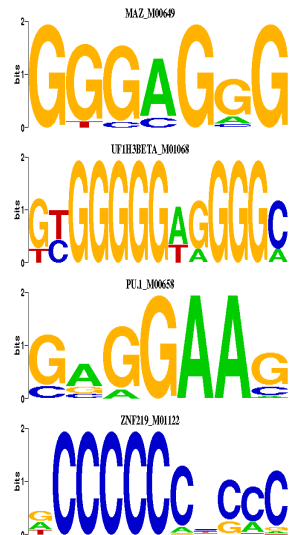
|               | <i>forward</i> | <i>reverse compliment</i>        |
|---------------|----------------|----------------------------------|
| <i>Name</i>   | <i>E value</i> | <i>Alignment</i>                 |
| TFII-I_M00706 | 8.4995e-09     | -CTCCCTCC<br>CCTMCNTC-           |
| MAZ_M00649    | 2.0980e-07     | CTCCCTCC-<br>--CCCTCCC           |
| PU.1_M00658   | 9.4197e-06     | CTCCCTCC<br>CTTCCTC-             |
| ZNF219_M01122 | 2.5632e-05     | -GGAGGGAG--<br>GGNGGGGGGN        |
| MAF_M00648    | 1.0996e-04     | -----CTCCCTCC<br>NSNMMACTTCCYYCN |



**M6**



|                  | <i>forward</i> | <i>reverse compliment</i>    |
|------------------|----------------|------------------------------|
| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>             |
| MAZ_M00649       | 2.0488e-07     | CCCTCCTC<br>CCCTCCC-         |
| UF1H3BETA_M01068 | 3.5570e-06     | --CCCTCCTC---<br>GCCCTCCCCRC |
| PU.1_M00658      | 7.2739e-06     | CCCTCCTC<br>-CTTCCTC         |
| ZNF219_M01122    | 2.2704e-05     | -CCCTCCTC--<br>NCCCCCNCCC    |



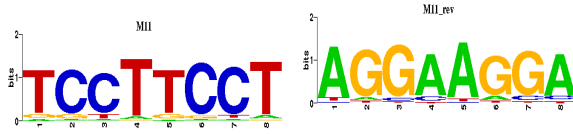
Sp1\_M00933

4.3938e-05

CCCTCCTC-  
CCCKCCCN



**M11**

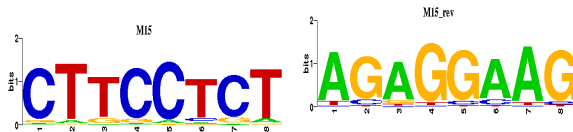


*forward*

*reverse compliment*

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>       | <i>Motif</i> |
|----------------|----------------|------------------------|--------------|
| Tel-2_M00678   | 7.9265e-08     | -AGGAAGGA<br>CAGGAAGTA |              |
| Ets_M00971     | 2.3693e-07     | TCCTTCCT-<br>--CTTCCTN |              |
| PU.1_M00658    | 4.7301e-07     | TCCTTCCT-<br>--CTTCCTC |              |
| PEA3_M00655    | 1.0132e-06     | AGGAAGGA<br>MGGAWG--   |              |
| c-Ets-1_M00743 | 2.1939e-06     | TCCTTCCT<br>-GCTTCCK   |              |






**M15**



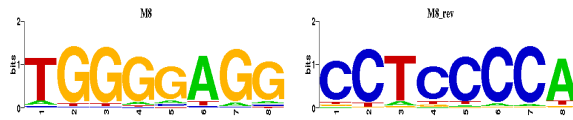
*forward*

*reverse compliment*

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






|              |            |                               |   |
|--------------|------------|-------------------------------|---|
| PU.1_M00658  | 4.9782e-11 | CTTCCTCT<br>CTTCCTC-          |  |
| Elf-1_M00746 | 3.4033e-10 | -CTTCCTCT--<br>AYTTCCTCTTN    |  |
| GCR1_M00046  | 1.7312e-08 | AGAGGAAG-<br>-GWGGAAGC        |  |
| Ets_M00971   | 3.1796e-07 | CTTCCTCT<br>CTTCCTN-          |  |
| GCR1_M00337  | 4.8556e-07 | ---AGAGGAAG--<br>AAWAGTGAAGCC |  |

**M8**

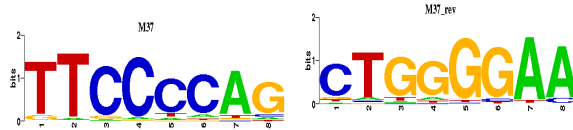


*forward*

*reverse compliment*

| Name             | E value    | Alignment                      | Motif   |
|------------------|------------|--------------------------------|---|
| Sp3_M00665       | 1.4194e-08 | ----TGGGGAGG-<br>SMCTTGGGSRGGG |  |
| UF1H3BETA_M01068 | 1.8332e-07 | ---CCTCCCCA--<br>GCCCTCCCCRC   |  |
| MAZ_M00649       | 2.2358e-07 | -CCTCCCCA<br>CCCTCCC--         |  |
| Tra-1_M01048     | 2.0310e-06 | TGGGGAGG-<br>--GGWGGT          |  |
| Lyf-1_M00141     | 3.1366e-06 | TGGGGAGG<br>TTGGGAGR           |  |

**M37**

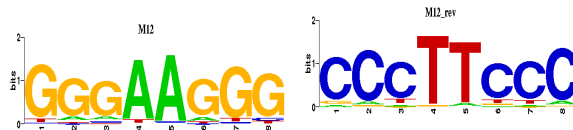


*forward*

*reverse compliment*

| Name           | E value    | Alignment                                    | Motif |
|----------------|------------|--|-------|
| Olf-1_M00261   | 3.3799e-07 | -----CTGGGGAA-----<br>NCMNNYTCCCNRRGGGANTNGN |       |
| XPF-1_M00684   | 3.0299e-06 | CTGGGGAA-<br>CNGRNSAMC                       |       |
| MZF1_M00084    | 8.8895e-05 | TTCCCCAG-----<br>TTNCCCCTCINN                |       |
| EBF_M00977     | 9.2375e-05 | TTCCCCAG---<br>-TCCCYWGRGN                   |       |
| SREBP-1_M00749 | 9.6258e-05 | CTGGGGAA<br>-TGSGT-                          |       |

**M12**



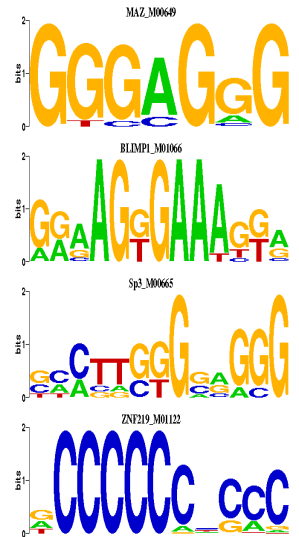
*forward*

*reverse compliment*

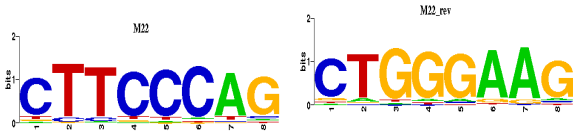
| Name             | E value    | Alignment                     | Motif |
|------------------|------------|-------------------------------|-------|
| UF1H3BETA_M01068 | 2.8532e-07 | -CCCTTCCC-----<br>GCCCTCCCCRC |       |



|               |            |                                 |
|---------------|------------|---------------------------------|
| MAZ_M00649    | 3.2776e-06 | CCCTTCCC<br>-CCCTCCC            |
| BLIMP1_M01066 | 6.3370e-06 | -----CCCTTCCC<br>YMCTTTCMCTTYC- |
| Sp3_M00665    | 2.5392e-05 | -----GGGAAGGG<br>SMCTTGGGSRGGG  |
| ZNF219_M01122 | 3.1620e-05 | GGGAAGGG---<br>GGGNGGGGGGN      |



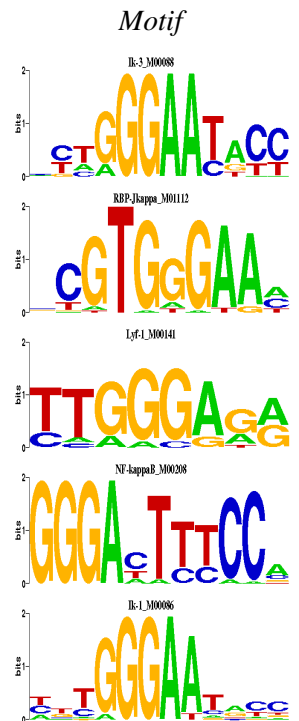
**M22**



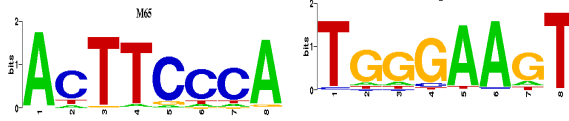
*forward*

*reverse compliment*

| Name              | E value    | Alignment                    |
|-------------------|------------|------------------------------|
| Ik-3_M00088       | 6.8911e-07 | -CTGGGAAG---<br>NYNGGGAATACC |
| RBP-Jkappa_M01112 | 1.3485e-05 | CTTCCCAG--<br>KTTCCACGN      |
| Lyf-1_M00141      | 1.7006e-05 | CTTCCCAG<br>YCTCCAA          |
| NF-kappaB_M00208  | 3.2101e-05 | CTGGGAAG----<br>-NGGAAARTCCC |
| Ik-1_M00086       | 7.3584e-05 | ---CTTCCCAG-<br>NNNATTCCANN  |



**M65**

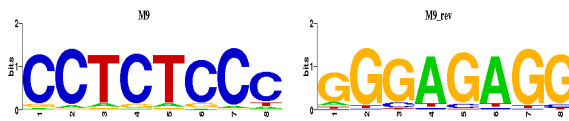


*forward*

*reverse compliment*

| Name              | E value    | Alignment                          | Motif |
|-------------------|------------|------------------------------------|-------|
| NF-kappaB_M00208  | 5.0309e-08 | TGGGAAGT---<br>NGGAAARTCCC         |       |
| STAT1_M00492      | 8.2947e-07 | ACTTCCCA<br>ANTTCCS-               |       |
| MAF_M00648        | 9.5773e-07 | -----ACTTCCCA--<br>NSNMMACTTCCYYCN |       |
| Tel-2_M00678      | 5.6602e-06 | TGGGAAGT-<br>CAGGAAGTA             |       |
| RBP-Jkappa_M01112 | 1.3776e-05 | ---TGGGAAGT<br>NCGTGGGAAM-         |       |

**M9**



*forward*

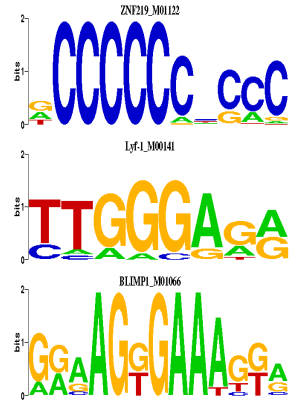
*reverse compliment*

| Name             | E value    | Alignment                      | Motif |
|------------------|------------|--------------------------------|-------|
| MAZ_M00649       | 1.0898e-06 | CCTCTCCC<br>-CCCTCCC           |       |
| UF1H3BETA_M01068 | 4.0593e-06 | --GGGAGAGG---<br>GYGGGGGAGGGGC |       |

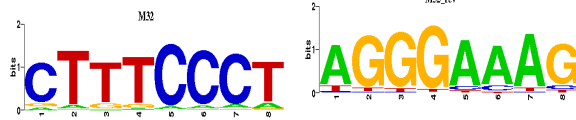
Stamp Results

10/01/13

|               |            |                                |
|---------------|------------|--------------------------------|
| ZNF219_M01122 | 2.5272e-05 | GGGAGAGG---<br>GGGNGGGGGGN     |
| Lyf-1_M00141  | 4.6585e-05 | CCTCTCCC--<br>--YCTCCCAA       |
| BLIMP1_M01066 | 6.6999e-05 | -CCTCTCCC----<br>YMCTTTCMCTTYC |



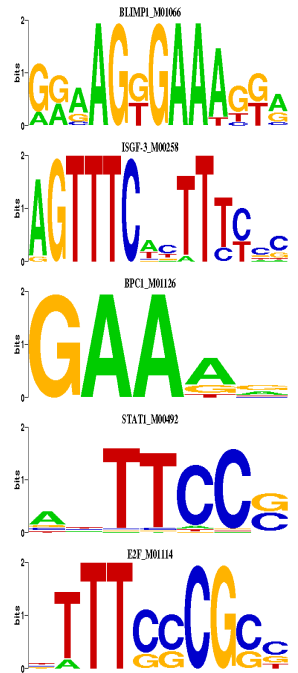
M32



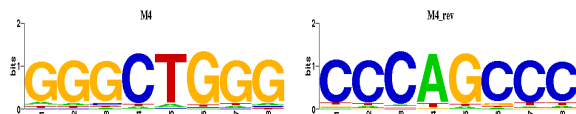
*forward*

*reverse compliment*

| Name          | E value    | Alignment                       |
|---------------|------------|---------------------------------|
| BLIMP1_M01066 | 2.3217e-10 | ---AGGGAAG--<br>GRAAGKGAAGKR    |
| ISGF-3_M00258 | 2.3107e-06 | -----CTTTCCT<br>AGTTTCWNTTTCNC- |
| BPC1_M01126   | 2.5463e-05 | CTTTCCT<br>NTTTC---             |
| STAT1_M00492  | 3.9521e-05 | AGGGAAG<br>-SGGAANT             |
| E2F_M01114    | 5.3290e-05 | --AGGGAAG<br>NGCGGGAAN          |

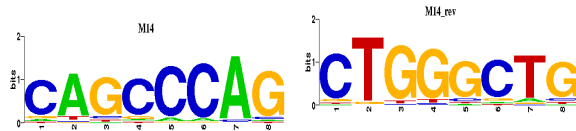


M4



|                    | <i>forward</i> | <i>reverse compliment</i>     |              |
|--------------------|----------------|-------------------------------|--------------|
| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
| CAC-binding_M00720 | 6.8691e-09     | CCCAGCCC<br>CCCASCCY          |              |
| Sp1_M00931         | 6.7070e-08     | GGGCTGGG-<br>GGGCGGGN         |              |
| Sp1_M00932         | 1.1711e-06     | --CCCAGCCC--<br>NNCCCCGCCCN   |              |
| Sp1_M00196         | 1.3435e-06     | --CCCAGCCC--<br>NNCCCCGCCCN   |              |
| KROX_M00982        | 4.6453e-06     | ----CCCAGCCC-<br>CCGCCCCNCNNC |              |

**M14**



|                | <i>forward</i> | <i>reverse compliment</i>              |              |
|----------------|----------------|--|--------------|
| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>                       | <i>Motif</i> |
| YY1_M00069     | 3.7746e-05     | --CAGCCCAG-----<br>WNSANNCAAGATGGCNGNN |              |
| SREBP-1_M00221 | 8.5172e-05     | --CAGCCCAG<br>ATCACCCCAC               |              |
| SREBP_M00776   | 2.0687e-04     | CTGGGCTG----<br>-TRGGGTGANNN           |              |

Stamp Results

10/01/13

CP2\_M00072

3.0225e-04

CTGGGCTG--  
CTGGKTNGNG



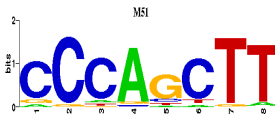
SREBP-1\_M00749

5.9755e-04

CAGCCCAG  
-ACSCCA-



M51



*forward*



*reverse compliment*

Name

E value

Alignment

Motif

LUN-1\_M00480

2.8286e-07

-----AAGCTGGG  
TCCCAAAGTAGCTGGG



Barbie\_M00238

8.4738e-07

----AAGCTGGG--  
NNNAAAGSNGNNKG



HEB\_M00698

1.0719e-06

CCCAGCTT  
-CCWGCTG



LBP-1\_M00644

2.4888e-06

AAGCTGGG  
-NGCTGS-



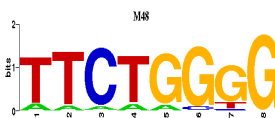
AP-4\_M00176

1.2699e-05

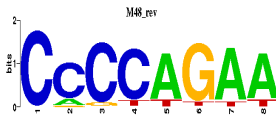
CCCAGCTT-  
NNCAGCTGN





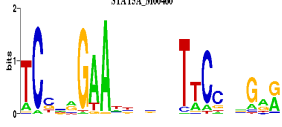
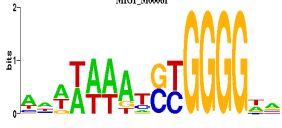

M48



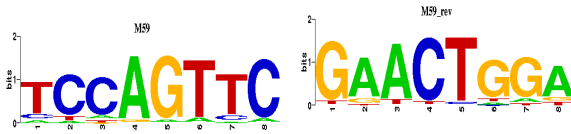
*forward*



*reverse compliment*


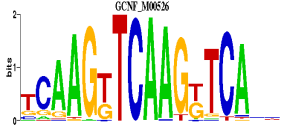
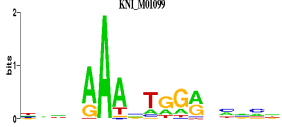

| <i>Name</i>    | <i>E value</i> | <i>Alignment</i>                        | <i>Motif</i>  |
|----------------|----------------|---|---|
| STAT_M00777    | 2.1539e-06     | CCCCAGAA-----<br>TCCNAGAANNNN           |  |
| STATx_M00223   | 1.0179e-05     | TTCTGGGG<br>TTMYGGGA                    |  |
| STAT5A_M00460  | 4.8419e-05     | -----TTCTGGGG<br>YNCNNGGAANNNNNTTCNNNGA |  |
| MIG1_M00061    | 6.8741e-05     | --CCCCAGAA-----<br>NNCCCCRSNTTWWNN      |  |
| SREBP-1_M00749 | 8.4763e-05     | TTCTGGGG-<br>---TGGSGT                  |  |

**M59**



*forward*

*reverse compliment*

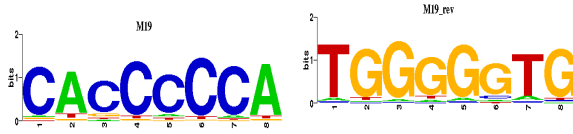
| <i>Name</i>  | <i>E value</i> | <i>Alignment</i>                       | <i>Motif</i>  |
|--------------|----------------|--|---|
| Pax-6_M00979 | 4.3306e-06     | ----TCCAGTTC-<br>KAGTTCAGGTCA          |  |
| GCNF_M00526  | 2.3169e-05     | -----GAACTGGA<br>NNTGAMCTTGA ACTTGA    |  |
| KNI_M01099   | 7.6629e-05     | ----GAACTGGA-----<br>NNNNAAANTRGRNNNNN |  |
| RXR_M01152   | 2.5579e-04     | -GAACTGGA<br>TGA ACTN--                |  |

PXR\_M01153 3.4929e-04

-GAACTGGA  
TGAACTN--



**M19**

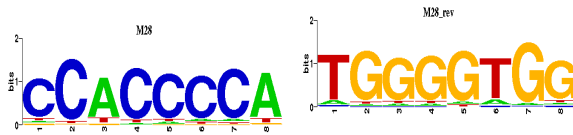


*forward*

*reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>               | <i>Motif</i> |
|------------------|----------------|--------------------------------|--------------|
| GBF_M00633       | 7.3608e-14     | CACCCCA<br>NACCCNA             |              |
| UF1H3BETA_M01068 | 1.5052e-07     | -TGGGGGTG----<br>GYGGGGGAGGGC  |              |
| Egr_M00807       | 2.4031e-06     | TGGGGGTG--<br>TGGGSGCRN        |              |
| CACD_M01113      | 7.2411e-06     | CACCCCA<br>CACRCC-             |              |
| Alfin1_M00479    | 1.0220e-05     | CACCCCA-----<br>MNNCCCCACNYNYN |              |

**M28**



*forward*

*reverse compliment*

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

Stamp Results

10/01/13

SREBP-1\_M00221 8.6582e-09

-TGGGGTGG-  
GTGGGGTGAT



SREBP-1\_M00749 5.0333e-08

TGGGGTGG  
TGGSGT--



ROM\_M00700 5.3885e-08

CCACCCCA  
CCACSTCA



SREBP\_M00776 2.0015e-07

TGGGGTGG---  
TRGGGTGANN

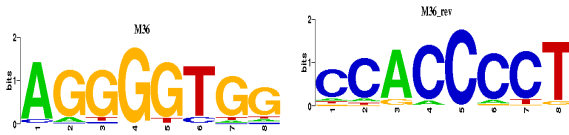


Tra-1\_M01049 8.3459e-07

-CCACCCCA  
ACCNCCC--



M36



*forward*

*reverse compliment*

*Name*

*E value*

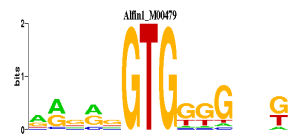
*Alignment*

*Motif*

Alfin1\_M00479

4.7442e-08

-AGGGGTGG-----  
NRNRNGTGGGGNNK



CAC-binding\_M00720 7.3374e-07

AGGGGTGG-  
-RGGSTGGG



Zic2\_M00449

1.4994e-06

--CCACCCCT  
NACCACCC--



Tra-1\_M01049

1.5210e-06

-CCACCCCT  
ACCNCCC--





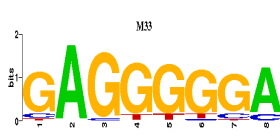
GBF\_M00633

2.6562e-06

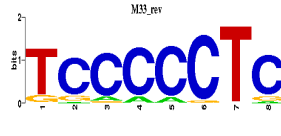
CCACCCCT-  
-NACCCNA



**M33**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

MZF1\_M00084

3.0662e-10

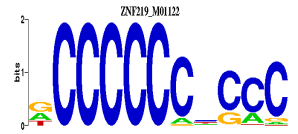
-TCCCCCTC---  
TTNCCCCTCNNN



ZNF219\_M01122

1.5287e-06

--GAGGGGA-  
GGGNGGGGGN



STRE\_M00308

2.0293e-05

TCCCCCTC  
-NCCCCT-



UF1H3BETA\_M01068 2.2636e-05

-----TCCCCCTC  
GCCCTCCCCRC



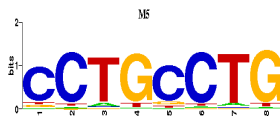
ROM\_M00700

2.9360e-05

-GAGGGGA  
TGASGTGG-



**M5**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

E2A\_M00973 1.0049e-05

CAGGCAGG--  
--RNCAGNT



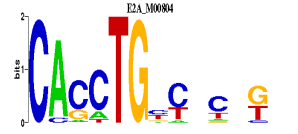
Tel-2\_M00678 3.5670e-05

CAGGCAGG--  
CAGGAAGTA



E2A\_M00804 1.2019e-04

--CCTGCCTG---  
CACCTGNCNCNKN



TFII-I\_M00706 1.8054e-04

CCTGCCTG  
CCTMCNTC

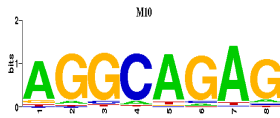


Ttk\_M00009 2.2426e-04

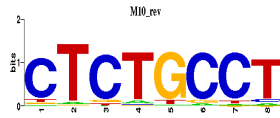
CAGGCAGG--  
---GCAGGAC



**M10**



*forward*



*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

Dde\_M00304 3.1300e-06

AGGCAGAG--  
--GGCTGAGC



SMAD3\_M00701 5.1077e-06

CTCTGCCT  
GTCGNCT



Nrf-2\_M00108 1.2079e-04

CTCTGCCT--  
SNCTTCCGG



Eve\_M00629 3.0639e-04

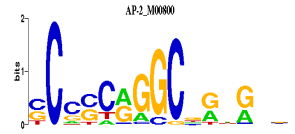
AGGCAGAG---  
--GCNGNSSWN



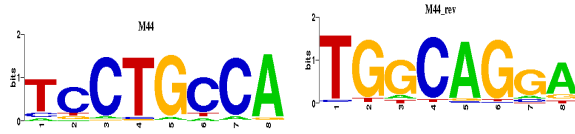
AP-2\_M00800

8.6154e-04

--CTCTGCCT-----  
NNYNYNGCCYGSSGS



**M44**



*forward*

*reverse compliment*

*Name E value Alignment Motif*

KAISO\_M01119 4.0625e-08

-TGGCAGGA  
NTNGCAGGA



Ttk\_M00009 3.6023e-07

TGGCAGGA-  
--GCAGGAC



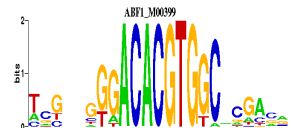
E2A\_M00973 1.0622e-05

TGGCAGGA  
-RNCAGNT



ABF1\_M00399 1.9805e-05

--TCCTGCCA-----  
NNTCNNGCCACGTGTCCCNNNNW

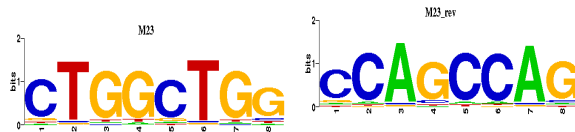


NERF1a\_M00531 5.3857e-05

TGGCAGGA-----  
-RNCAGGAAGYRNSTNNS



**M23**



*forward*

*reverse compliment*

*Name E value Alignment Motif*

Stamp Results

10/01/13

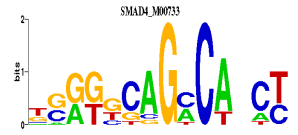
BRK\_M01096 2.0642e-05

CTGGCTGG  
NTGGCG--



SMAD4\_M00733 2.2302e-05

--CTGGCTGG----  
RGNTGKCTGNMYSN



GLI\_M01037 2.5200e-05

---CCAGCCAG  
NGACCACCCAN



CAC-binding\_M00720 9.3921e-05

-CCAGCCAG  
CCCASCCY-

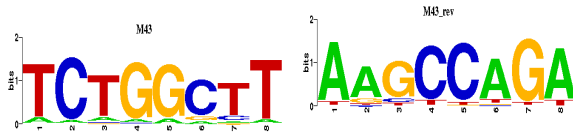


HEB\_M00698 6.4814e-04

CTGGCTGG  
-CAGCWGG



M43



*forward*

*reverse compliment*

| Name                          | E value    | Alignment                         | Motif |
|-------------------------------|------------|-----------------------------------|-------|
| Grainyhead-Elf-1-NTF-1_M00951 | 1.4839e-05 | AAGCCAGA<br>AAACCRG-              |       |
| BRK_M01096                    | 2.4591e-05 | TCTGGCTT<br>-NTGGCG-              |       |
| Hand1-E47_M00222              | 1.9735e-04 | -AAGCCAGA-----<br>NNWNCCAGAYNCNNN |       |
| SMAD3_M00701                  | 2.6679e-04 | -TCTGGCTT<br>GTCTGNCT-            |       |

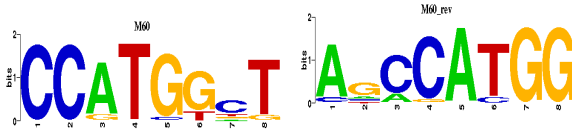
MEF-3\_M00319

1.4834e-03

--AAGCCAGA--  
NGWAACCTGASC



**M60**

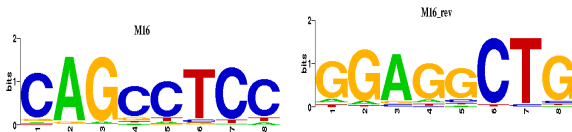


*forward*

*reverse compliment*

| Name             | E value    | Alignment                              | Motif |
|------------------|------------|--|-------|
| RFX1_M00281      | 6.2514e-07 | -----CCATGGCT---<br>NNGTTRCYANNNGYNACN |       |
| Roaz_M00467      | 2.5240e-04 | --AGCCATGG---<br>KCACCCCTGGGTG         |       |
| Opaque-2_M00374  | 2.7546e-04 | CCATGGCT-<br>CCATRTCAT                 |       |
| NF-muE1_M00651   | 7.3909e-04 | AGCCATGG<br>GGCCATCT                   |       |
| alpha-CP1_M00687 | 1.0304e-03 | AGCCATGG--<br>AGCCAATGAG               |       |

**M16**



*forward*

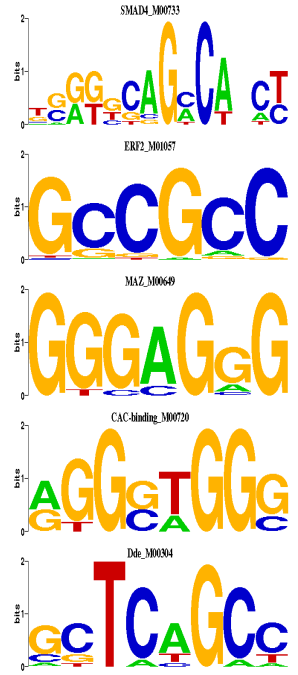
*reverse compliment*

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

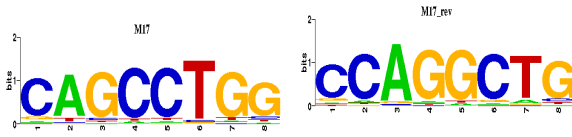
Stamp Results

10/01/13

|                    |            |                                  |
|--------------------|------------|----------------------------------|
| SMAD4_M00733       | 8.5980e-05 | -----CAGCCTCC-<br>NSRKNCAGMCANCY |
| ERF2_M01057        | 2.2401e-04 | GGAGGCTG<br>GGCGGC--             |
| MAZ_M00649         | 2.3287e-04 | CAGCCTCC-<br>--CCCTCCC           |
| CAC-binding_M00720 | 4.9000e-04 | --CAGCCTCC<br>CCCASCCY--         |
| Dde_M00304         | 9.1625e-04 | GGAGGCTG---<br>---GGCTGAGC       |



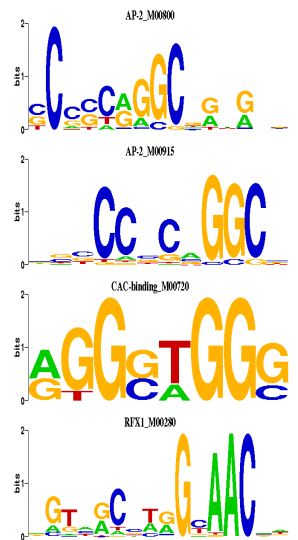
**M17**



*forward*

*reverse compliment*

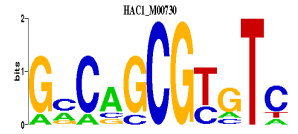
| Name               | E value    | Alignment                           |
|--------------------|------------|-------------------------------------|
| AP-2_M00800        | 5.4855e-05 | ----CAGCCTGG---<br>NNYNYNGCCYGSSGS  |
| AP-2_M00915        | 2.1917e-04 | CAGCCTGG-----<br>-NGCCNGNGGNNN      |
| CAC-binding_M00720 | 3.8769e-04 | CCAGGCTG--<br>--RGGSTGGG            |
| RFX1_M00280        | 6.7914e-04 | -----CCAGGCTG--<br>NNGTTRCYWNGYNACN |



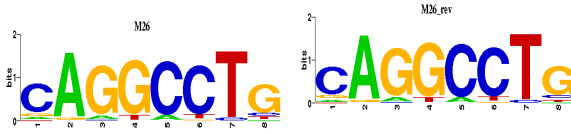
HAC1\_M00730

7.5766e-04

--CCAGGCTG--  
GACACGCTGKC



**M26**

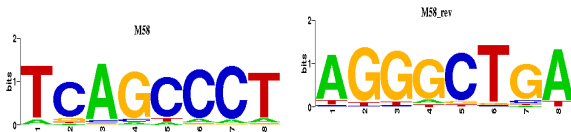


*forward*

*reverse compliment*

| Name         | E value    | Alignment                              | Motif |
|--------------|------------|--|-------|
| ZBRK1_M01105 | 5.2069e-04 | -CAGGCCTG-----<br>AAANNCTGCKSCC        |       |
| Ttk_M00009   | 9.8717e-04 | -CAGGCCTG<br>GCAGGAC--                 |       |
| Eve_M00629   | 1.2843e-03 | -CAGGCCTG<br>GCNGNSSWN                 |       |
| p53_M00272   | 6.2002e-03 | --CAGGCCTG<br>GRCWTGYCY-               |       |
| p53_M00034   | 7.9610e-03 | -----CAGGCCTG---<br>GACATGCCCGGCATGTCY |       |

**M58**








*forward*

*reverse compliment*

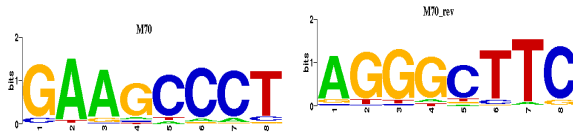
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13





|                |            |                                 |   |
|----------------|------------|---------------------------------|---|
| Dde_M00304     | 2.5519e-06 | AGGGCTGA--<br>--GGCTGAGC        |  |
| ZBRK1_M01105   | 3.8985e-05 | --AGGGCTGA----<br>AAANNCTGCKSCC |  |
| SREBP-1_M00221 | 7.6667e-05 | -AGGGCTGA-<br>GTGGGGTGAT        |  |
| TBX5_M01044    | 1.9451e-04 | -AGGGCTGA<br>AAGGTGTGA          |  |
| CDC5_M00361    | 2.1440e-04 | AGGGCTGA--<br>NSCGCTGAGS        |  |

**M70**



*forward*

*reverse compliment*

| Name             | E value    | Alignment                        | Motif   |
|------------------|------------|----------------------------------|---|
| NF-kappaB_M00051 | 2.2666e-04 | --GAAGCCCT<br>GGGRATCCC-         |  |
| GCR1_M00337      | 4.0442e-04 | -----GAAGCCCT<br>AAWAGTGAAGCC--  |  |
| ZBRK1_M01105     | 6.0444e-04 | ----GAAGCCCT--<br>GGSMGCAGNNNTTT |  |
| c-Ets-1_M00743   | 6.7639e-04 | AGGGCTTC--<br>---GCTTCK          |  |



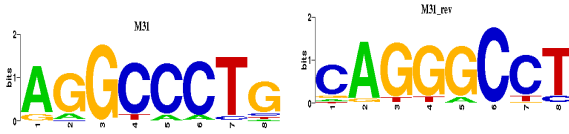
GCR1\_M00046

8.4253e-04

---GAAGCCCT  
GWGGAAGC---



**M31**



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

Ttk\_M00009

8.5688e-04

AGGCCCTG--  
--GTCCTGC



SF1\_M00727

1.7910e-03

CAGGGCCT  
CAAGGTC-



LRH1\_M01142

1.9995e-03

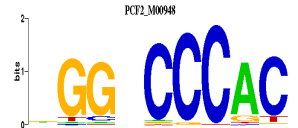
AGGCCCTG---  
NRRCCTTGNaN



PCF2\_M00948

2.4553e-03

--AGGCCCTG  
GTGGNCCN-



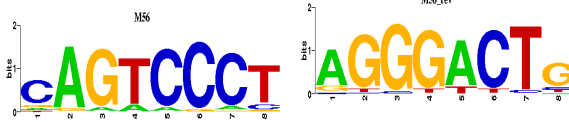
SF1\_M01132

3.3870e-03

-CAGGGCCT  
NCAAGGTN-



**M56**



*forward*

*reverse compliment*

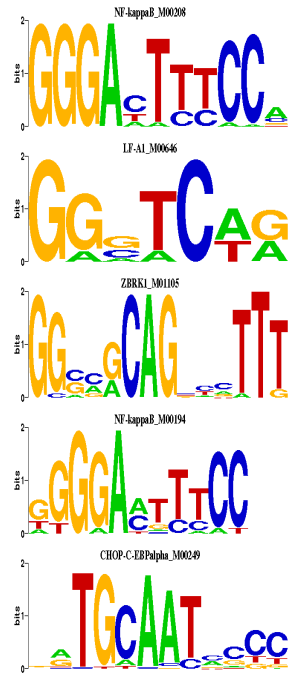
*Name*

*E value*

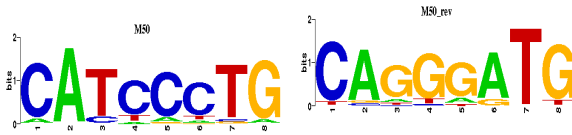
*Alignment*

*Motif*

|                        |            |                                 |
|------------------------|------------|---------------------------------|
| NF-kappaB_M00208       | 4.6433e-05 | ----CAGTCCCT<br>NGGAAARTCCC-    |
| LF-A1_M00646           | 5.7269e-04 | AGGGACTG<br>-GGSTCWR            |
| ZBRK1_M01105           | 7.8915e-04 | -AGGGACTG-----<br>AAANNCTGCKSCC |
| NF-kappaB_M00194       | 8.8002e-04 | -----CAGTCCCT<br>NNGGAAAKTCCC   |
| CHOP-C-EBPalpha_M00249 | 1.4190e-03 | AGGGACTG----<br>GGSNATTGCAYN    |



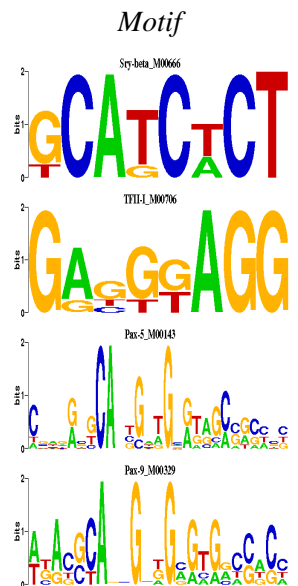
**M50**



*forward*

*reverse compliment*

| Name            | E value    | Alignment  |
|-----------------|------------|--|
| Sry-beta_M00666 | 8.2631e-05 | CAGGGATG-<br>-AGWGATGC                           |
| TFII-I_M00706   | 1.3552e-04 | CAGGGATG<br>GANGKAGG                             |
| Pax-5_M00143    | 2.1409e-04 | -----CATCCCTG-----<br>NNNSYSGCYMYNCWNCNNTGMNYNNG |
| Pax-9_M00329    | 2.6624e-04 | -----CATCCCTG-----<br>NGNSNNCNCNCNNCNNTGSNTNW    |

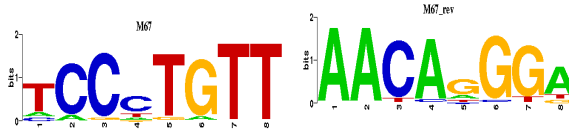


Gfi1b\_M01058 3.3738e-04

--CAGGGATG--  
WCGMGTGATTT



**M67**

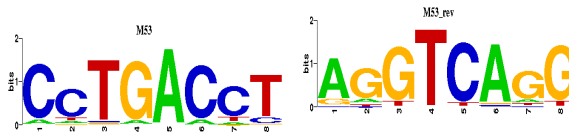


*forward*

*reverse compliment*

| Name          | E value    | Alignment                         | Motif |
|---------------|------------|-----------------------------------|-------|
| GATA-4_M00632 | 1.9789e-07 | ---AACAGGGA<br>GATANMAGRSA        |       |
| Elk-1_M00007  | 2.7332e-04 | -----TCCCTGTT--<br>NNGNACTTCKGTNN |       |
| Sn_M00044     | 2.9453e-04 | ----AACAGGGA--<br>TNNNANCANNTNN   |       |
| SED_M01128    | 4.4448e-04 | AACAGGGA--<br>NAAAGNNNA           |       |
| Sn_M00060     | 6.1078e-04 | ---TCCCTGTT--<br>NKRCACCTGTYN     |       |

**M53**




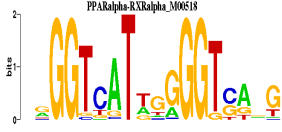



*forward*

*reverse compliment*

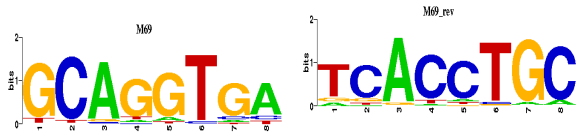
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13





|                           |            |                                     |   |
|---------------------------|------------|-------------------------------------|---|
| MEF-3_M00319              | 5.2632e-07 | -----CCTGACCT<br>NGWAACCTGASC-      |  |
| PPARalpha-RXRalpha_M00518 | 6.2111e-06 | CCTGACCT-----<br>CNTSACCCCNATGACCNN |  |
| v-ErbA_M00239             | 1.4218e-05 | ---CCTGACCT---<br>NNSNGTGACCTYANN   |  |
| ER_M00959                 | 1.4481e-05 | --CCTGACCT<br>RNNNTGACCT            |  |
| LF-A1_M00646              | 3.4306e-05 | CCTGACCT<br>-YWGASCC                |  |

**M69**



*forward*

*reverse compliment*

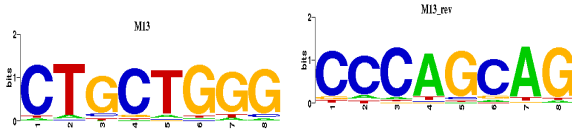
| Name            | E value    | Alignment                        | Motif   |
|-----------------|------------|----------------------------------|---|
| myogenin_M00712 | 8.0518e-09 | TCACCTGC<br>-CASCTGN             |  |
| E12_M00693      | 7.4794e-08 | --TCACCTGC<br>NNNCACCTGY         |  |
| E47_M00002      | 2.1006e-07 | ----TCACCTGC--<br>NNNNACACCTGCNS |  |
| MyoD_M00184     | 3.6548e-06 | TCACCTGC-<br>NCANCTGNC           |  |

bHLH66\_M01054 4.0788e-06

TCACCTGC  
-CACGTGC



**M13**

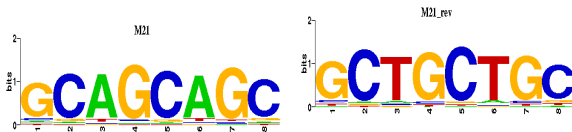


*forward*

*reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|--------------------|----------------|-----------------------------------|--------------|
| LMAF_M01139        | 1.4572e-06     | CTGCTGGG<br>CTGCTGAS              |              |
| HEB_M00698         | 5.2033e-06     | CCCAGCAG<br>-CCWGCTG              |              |
| AP-4_M00176        | 7.6297e-05     | CCCAGCAG-<br>NNCAGCTGN            |              |
| CAC-binding_M00720 | 1.3051e-04     | CCCAGCAG<br>CCCASCCY              |              |
| LUN-1_M00480       | 1.7070e-04     | -----CTGCTGGG<br>TCCCAAAGTAGCTGGG |              |

**M21**



*forward*

*reverse compliment*

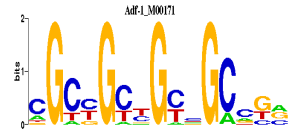
| <i>Name</i> | <i>E value</i> | <i>Alignment</i> | <i>Motif</i> |
|-------------|----------------|------------------|--------------|
|-------------|----------------|------------------|--------------|

Stamp Results

10/01/13

Adf-1\_M00171 1.4313e-06

-----GCAGCAGC--  
NMNGCNRRCRGCRCGC



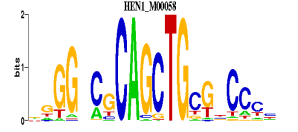
LMAF\_M01139 1.4643e-06

GCTGCTGC--  
-CTGCTGAS



HEN1\_M00058 6.7883e-06

-----GCAGCAGC-----  
NNNGGNCGCAGCTGCGNCCNN



AP-4\_M00927 1.4989e-05

GCAGCAGC  
RCAGCTGN

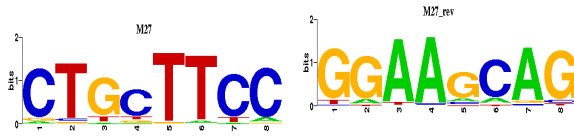


HEB\_M00698 1.6730e-05

GCAGCAGC  
-CAGCWGG



M27



*forward*

*reverse compliment*

Name E value

Alignment

Motif

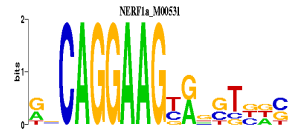
c-Ets-1\_M00743 1.2242e-06

-GGAAGCAG  
MGAAGC--



NERF1a\_M00531 1.6655e-06

----GGAAGCAG-----  
RNCAGGAAGYRNSTNNS



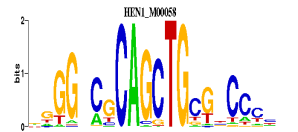
GCR1\_M00046 1.6964e-06

--GGAAGCAG  
GWGAAGC--



HEN1\_M00058 7.5685e-06

---GGAAGCAG-----  
NNNGGNCGCAGCTGCGNCCNN



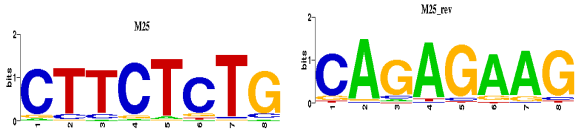
Tel-2\_M00678

5.5494e-05

--GGAAGCAG  
CAGGAAGTA-



**M25**

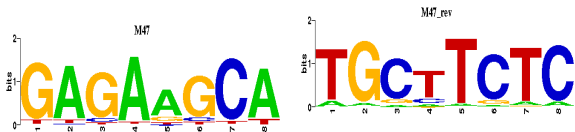


*forward*

*reverse compliment*

| Name            | E value    | Alignment                 | Motif |
|-----------------|------------|---------------------------|-------|
| GATA-2_M00349   | 2.3530e-05 | -CTTCTCTG<br>TNTTATCTS    |       |
| Sry-beta_M00666 | 9.1735e-05 | CAGAGAAG-<br>-AGWGATGC    |       |
| GATA-1_M00347   | 1.1529e-04 | -CTTCTCTG<br>YNTTATCTN    |       |
| GATA-3_M00350   | 1.9524e-04 | -CTTCTCTG<br>TNTTATCTY    |       |
| STE11_M01005    | 1.9792e-04 | CTTCTCTG---<br>TTTCTTTGTC |       |

**M47**



*forward*

*reverse compliment*

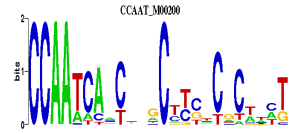
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13

CCAAT\_M00200 5.9333e-05

-----TGCTTCTC-----  
CCAATCANCNNNCYNNCNCWNNT



Sry-beta\_M00666 6.8891e-05

-GAGAAGCA  
AGWGATGC-



PEND\_M01015 3.3659e-04

TGCTTCTC  
-ACTTCTT



c-Ets-1\_M00743 6.1352e-04

TGCTTCTC  
-GCTTCK

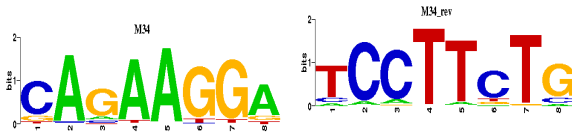


GCR1\_M00046 8.8156e-04

-GAGAAGCA  
GWGGAAGC-



M34



*forward*

*reverse compliment*

*Name* *E value*

*Alignment*

*Motif*

KAISO\_M01119 1.9527e-04

-CAGAAGGA  
NTNGCAGGA



HEB\_M00698 2.1481e-04

CAGAAGGA  
CAGCWGG-



PEND\_M01015 3.0488e-04

TCCTTCTG  
-ACTTCTT



TAL1\_M00993 7.9909e-04

--CAGAAGGA  
RNCAGNTGG-





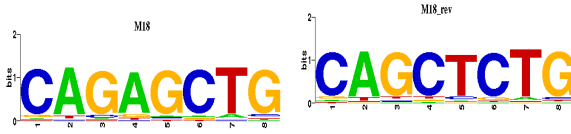
MAF\_M00648

1.2664e-03

-----TCCTTCTG  
NSNMMACTTCCYYCN-



**M18**

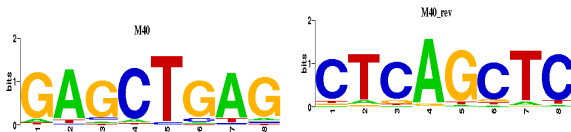


*forward*

*reverse compliment*

| Name            | E value    | Alignment                               | Motif |
|-----------------|------------|---|-------|
| Eve_M00629      | 7.3252e-06 | -CAGAGCTG<br>GCNGNSSWN                  |       |
| Sry-beta_M00666 | 9.8667e-06 | CAGAGCTG-<br>-AGWGATGC                  |       |
| AP-4_M00005     | 3.5989e-05 | -----CAGAGCTG-----<br>MNGNCNNCAGCTGNNNN |       |
| LBP-1_M00644    | 3.7179e-05 | -CAGCTCTG<br>SCAGCN---                  |       |
| HEB_M00698      | 4.8291e-04 | CAGAGCTG-<br>--CAGCWGG                  |       |

**M40**








*forward*

*reverse compliment*

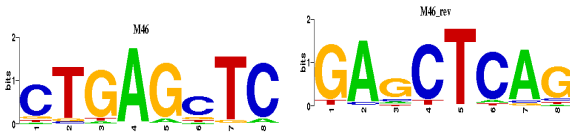
| Name | E value | Alignment | Motif |
|------|---------|-----------|-------|
|------|---------|-----------|-------|

Stamp Results

10/01/13





|              |            |                              |   |
|--------------|------------|------------------------------|---|
| CDC5_M00361  | 4.7615e-07 | -GAGCTGAG-<br>NSCGCTGAGS     |  |
| Dde_M00304   | 2.3816e-06 | -CTCAGCTC<br>GCTCAGCC-       |  |
| MAF_M00983   | 3.0529e-05 | ----CTCAGCTC<br>NTGACTCANC-- |  |
| AP-4_M00175  | 3.4082e-05 | --GAGCTGAG<br>NNCAGCTGN-     |  |
| NF-E2_M00037 | 3.7977e-05 | ----CTCAGCTC<br>RTGACTCAGC-- |  |

**M46**



*forward*

*reverse compliment*

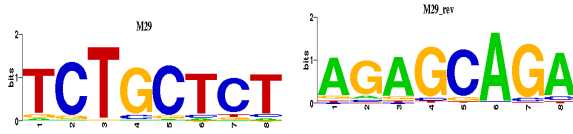
| <i>Name</i> | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i>  |
|-------------|----------------|------------------------------|---|
| Dde_M00304  | 2.6367e-06     | --CTGAGCTC<br>GGCTGAGC--     |  |
| CDC5_M00361 | 2.2433e-05     | GAGCTCAG----<br>--SCTCAGCGSN |  |
| PXR_M01153  | 2.3771e-05     | CTGAGCTC<br>-TGA ACTN        |  |
| Pax_M00808  | 2.3348e-04     | CTGAGCTC--<br>GTKAGTTCCA     |  |

GATA-2\_M00349 6.2612e-04

-CTGAGCTC  
TNTTATCTS



**M29**



*forward*

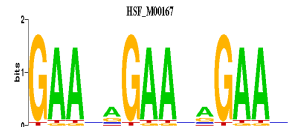
*reverse compliment*

*Name E value Alignment Motif*

Pax-1\_M00326 6.3753e-06 -----AGAGCAGA---  
ATATCTAGAGCGGAACG



HSF\_M00167 6.6940e-06 --TCTGCTCT----  
NTTCNNTTCNNTTC



HSF\_M00170 6.6940e-06 --TCTGCTCT----  
NTTCNNTTCNNGAA



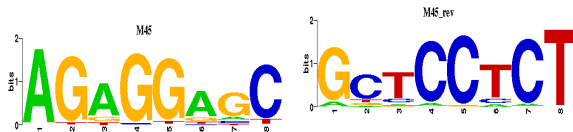
GATA-2\_M00349 2.0338e-04 TCTGCTCT-  
TNTTATCTS



TAL1\_M00993 2.5035e-04 ---TCTGCTCT  
CCANCTGNY--



**M45**



*forward*

*reverse compliment*

*Name E value Alignment Motif*

Stamp Results

10/01/13

Elf-1\_M00746 4.2090e-05

-GTCCTCT--  
AYTTCCTCTTN



TFIIA\_M00707 4.9804e-05

GTCCTCT---  
SNYCCTYNNAK



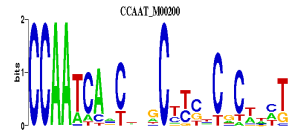
PU.1\_M00658 3.3377e-04

GTCCTCT  
CTTCCTC-



CCAAT\_M00200 7.8031e-04

-----GTCCTCT-----  
CCAATCANCNNNCYNNNCNCWNNNT

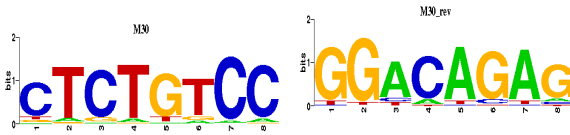


UF1H3BETA\_M01068 8.5885e-04

-----AGAGGAGC  
GYGGGGGAGGGGC



M30



*forward*

*reverse compliment*

*Name*

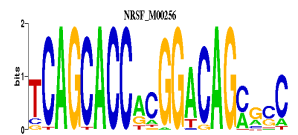
*E value*

*Alignment*

*Motif*

NRSF\_M00256 2.4760e-07

-----GGACAGAG--  
TCAGCACCACGGACAGCRSC



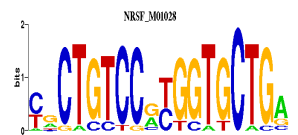
SMAD3\_M00701 5.4659e-06

GGACAGAG  
AGNCAGAC



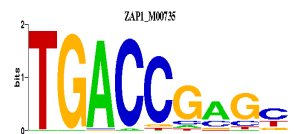
NRSF\_M01028 2.5061e-05

-----GGACAGAG  
TCAGCACCRYGGACAGNR



ZAP1\_M00735 7.7567e-05

-CTCTGTCC  
RCTCGGTCA



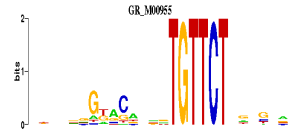
Stamp Results

10/01/13

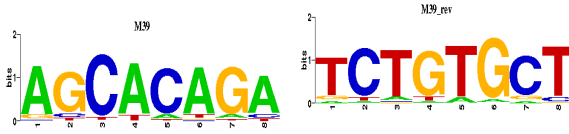
GR\_M00955

8.1255e-05

-----GGACAGAG-----  
 NNNNNNGNCCNNNTGTCTNNNNNN



M39

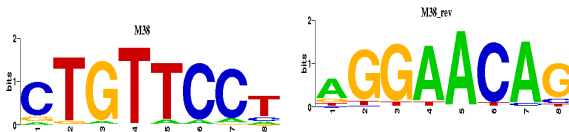


*forward*

*reverse compliment*

| Name         | E value    | Alignment                            | Motif |
|--------------|------------|--------------------------------------|-------|
| SEF-1_M00214 | 4.1133e-06 | -----TCTGTGCT-<br>ACACGGATATCTGTGGTY |       |
| HSF_M00167   | 5.7586e-06 | --TCTGTGCT----<br>NTTCNNTTCNNTTC     |       |
| HSF_M00170   | 5.7586e-06 | --TCTGTGCT----<br>NTTCNNTTCNNGAA     |       |
| PEBP_M00984  | 4.2310e-05 | ---TCTGTGCT---<br>NNNNYTGTGGTNAN     |       |
| AR_M00962    | 2.0164e-04 | TCTGTGCT-<br>-NNNTGCTC               |       |

M38



*forward*

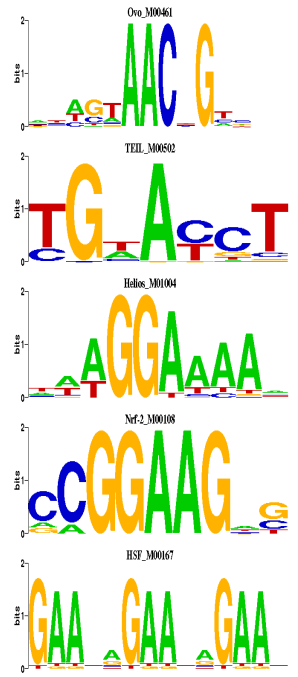
*reverse compliment*

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

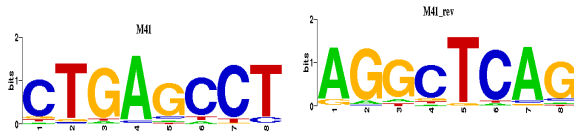
Stamp Results

10/01/13

|               |            |                                 |
|---------------|------------|---------------------------------|
| Ovo_M00461    | 1.7993e-05 | ----CTGTTCT--<br>NNNNCNGTTACWNN |
| TEIL_M00502   | 8.2365e-05 | AGGAACAG<br>AGRTWCA-            |
| Helios_M01004 | 1.3220e-04 | CTGTTCT--<br>NTTTTCTWN          |
| Nrf-2_M00108  | 1.7675e-04 | CTGTTCT--<br>SNCTTCCGG          |
| HSF_M00167    | 1.9017e-04 | GAACAG-----<br>GAANNGAANNGAAN   |



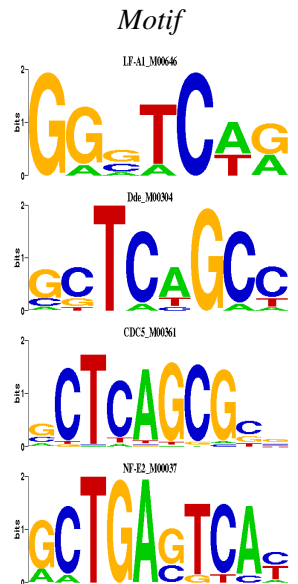
M41



*forward*

*reverse compliment*

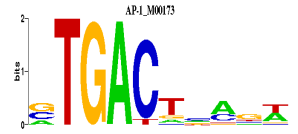
| <i>Name</i>  | <i>E value</i> | <i>Alignment</i>             |
|--------------|----------------|------------------------------|
| LF-A1_M00646 | 9.1975e-07     | AGGCTCAG<br>-GGSTCWR         |
| Dde_M00304   | 3.0860e-06     | AGGCTCAG--<br>--GCTCAGCC     |
| CDC5_M00361  | 3.0643e-05     | ----CTGAGCCT<br>NSCGCTGAGS-- |
| NF-E2_M00037 | 2.1012e-04     | -AGGCTCAG-<br>RTGACTCAGC     |



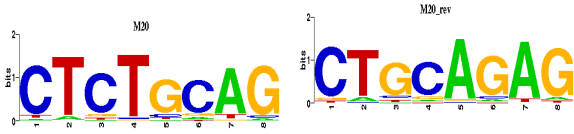
AP-1\_M00173

2.6508e-04

-CTGAGCCT-  
WKNAGTCAN



**M20**



*forward*

*reverse compliment*

| Name         | E value    | Alignment                             | Motif |
|--------------|------------|---------------------------------------|-------|
| LMAF_M01139  | 1.3463e-05 | CTCTGCAG<br>STCAGCAG                  |       |
| Nrf-2_M00821 | 1.8525e-04 | -----CTCTGCAG<br>NNTGACTCAGCA-        |       |
| Eve_M00629   | 4.3898e-04 | ---CTCTGCAG<br>NWSSNCNGC--            |       |
| v-Maf_M00035 | 8.4078e-04 | --CTGCAGAG-----<br>NNNTGCNNNGTCAGCANN |       |
| Adf-1_M00923 | 1.0477e-03 | -----CTGCAGAG<br>CRMNKKCAGCGRCKGCRGCS |       |

**M66**



*forward*

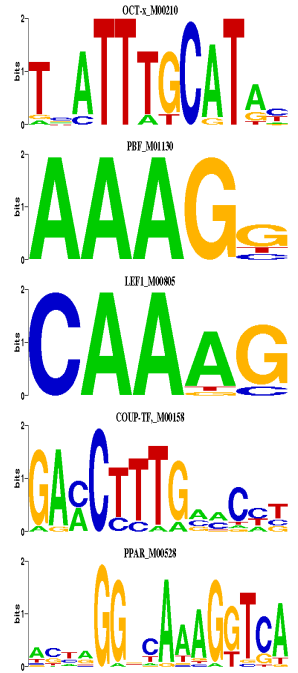
*reverse compliment*

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

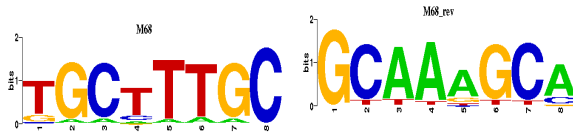
Stamp Results

10/01/13

|                 |            |                                      |
|-----------------|------------|--------------------------------------|
| OCT-x_M00210    | 4.2088e-07 | ---TGCAAAGG-<br>RTATGCAAATNA         |
| PBF_M01130      | 1.8143e-06 | CCTTTGCA<br>CCTTT---                 |
| LEF1_M00805     | 2.0906e-06 | CCTTTGCA<br>-CTTTG--                 |
| COUP-TF,_M00158 | 2.8813e-06 | --CCTTTGCA---<br>GAMCTTTGNMCNN       |
| PPAR_M00528     | 3.4532e-06 | ---CCTTTGCA-----<br>TGACCTTTGNCCNNNN |



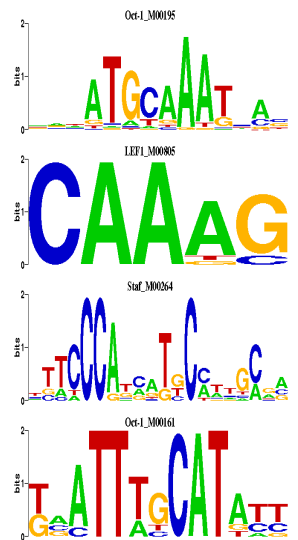
**M68**



*forward*

*reverse compliment*

| Name         | E value    | Alignment                               |
|--------------|------------|---|
| Oct-1_M00195 | 2.0779e-07 | -----GCAAAGCA-<br>NNNATGCAAATNAN        |
| LEF1_M00805  | 2.2920e-06 | TGCTTTGC<br>--CTTTG-                    |
| Staf_M00264  | 1.1268e-04 | --GCAAAGCA-----<br>NNGCNNKGNANNNTGGGANN |
| Oct-1_M00161 | 1.6150e-04 | -----GCAAAGCA<br>RRTATGCAAATNM          |



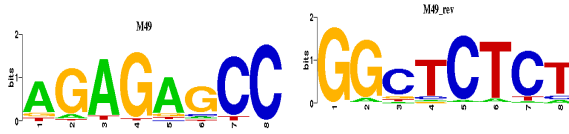


TCF-4\_M00671 2.2002e-04

-GCAAAGCA  
WTCAAAG--



**M49**

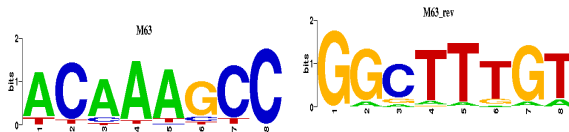


*forward*

*reverse compliment*

| Name           | E value    | Alignment                             | Motif |
|----------------|------------|---------------------------------------|-------|
| GAGA_M00723    | 8.2608e-06 | -AGAGAGCC-<br>SWGAGMGNRA              |       |
| ZID_M00085     | 1.9857e-05 | GGCTCTCT----<br>GGCTCYATCAYC          |       |
| SMAD3_M00701   | 4.6202e-05 | AGAGAGCC<br>AGNCAGAC                  |       |
| NRSE_M00325    | 6.9759e-05 | GGCTCTCT-----<br>GGCRCTCTCCGNGGTGCTGA |       |
| NF-muE1_M00651 | 1.4321e-04 | AGAGAGCC<br>AGATGGCC                  |       |

**M63**



*forward*

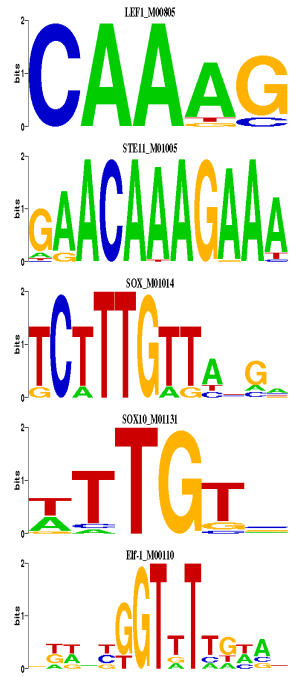
*reverse compliment*

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

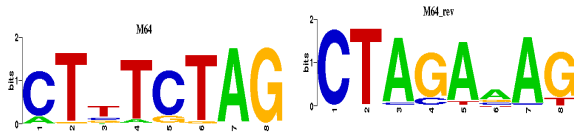
Stamp Results

10/01/13

|                   |            |                                    |
|-------------------|------------|------------------------------------|
| LEF1_M00805       | 1.9979e-06 | ACAAAGCC<br>-CAAAG--               |
| STE11_M01005      | 3.1120e-05 | -GGCTTTGT--<br>TTTCTTTGTTC         |
| <b>SOX_M01014</b> | 5.3147e-05 | -----ACAAAGCC<br>NCNTAACAAAGA-     |
| SOX10_M01131      | 1.8089e-04 | -ACAAAGCC<br>NACAAW---             |
| Elf-1_M00110      | 2.0400e-04 | --ACAAAGCC-----<br>NNNNNANACCNNNNN |



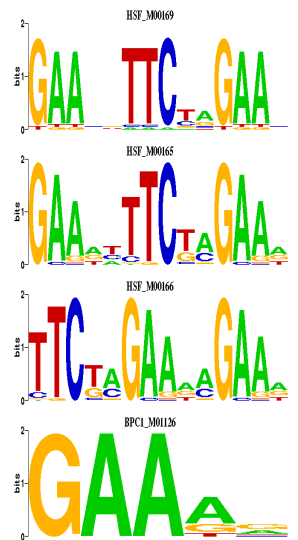
**M64**



*forward*

*reverse compliment*

| Name        | E value    | Alignment                        |
|-------------|------------|----------------------------------|
| HSF_M00169  | 6.6168e-07 | ---CTAGANAG---<br>NTTCNNGAANNTTC |
| HSF_M00165  | 2.6871e-06 | ---CTAGANAG---<br>NTTCTAGAANNTTC |
| HSF_M00166  | 2.6871e-06 | ----CTNTCTAG--<br>NTTCTNTTCTAGAA |
| BPC1_M01126 | 3.2205e-05 | CTNTCTAG<br>NTTTC---             |



# Stamp Results

10/01/13

Rim101p\_M01030 3.7696e-05

CTNCTAG  
-TTNCTTG



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