

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

Input file: 88 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 :      -----CCCCCCCCCCCCCCCC-----
M1 :      ---TTTTTTTTTTTTTTTTTCTTTTTTT---
M2 :      -----CCCCAGCCCC-----
M3 :      -----CACACACACACACACACACA
M4 :      -----CCCCCCCCCCTCCTCCCCCCCCC-----
M5 :      -----CCCCCCCCCCTCCCTCCCCCCCCC-----
M6 :      -----CCCCAGCCCC-----
M7 :      -----CCCTGCCCY-----
M8 :      -----GCGCCCCCTGCTGG-----
M9 :      -----CTGCCCTCT-----
M10 :     -----CCCCCCCCCCTCCCTCCCCCCCCC-----
M11 :     ACACACACACACACACACACACA-----
M12 :     -----GCGCCCTCTGCTGGCC-----
M13 :     -----TCTCTGCCTC-----
M14 :     -----CCCTTCCCC-----
M15 :     -----CCTCTGCTGCC-----
M16 :     -----CCCCCTCCCCA-----
M17 :     -----TCTCTCTCT-----
M18 :     -----CTGCCCTCTGCY-----
M19 :     -----CCCCCTCCCTSTCCCC-----
M20 :     -----CTGCTGGCC-----
M21 :     -----GGCTCTGGG-----
M22 :     -----CCCCCCCCCACCACCACC-----

```

Stamp Results

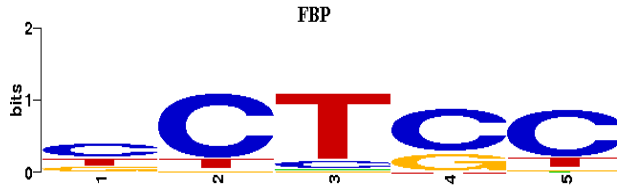
04/30/14

M23: -----CAGCCCCAGS-----  
M24: -----TCTCCAGCCTC-----  
M25: -----AGCTGCTGCTGC-----  
M26: -----CCTCCTTCTCCCC-----  
M27: -----TTCTCTCTCTCTCT-----  
M28: -----CCCAGGCCTGG-----  
M29: -----CCAGCTCCT-----  
M30: -----CAGCYCTGGG-----  
M31: -----CCCAGGCTG-----  
M32: -----CCTSCAGGG-----  
M33: -----CCAGCKCCCCCTGCTGGCC-----  
M34: -----CTGTCCCCA-----  
M35: -----AAATTATTTTTTAAAAAAAAAAAA-----  
M36: -----TCCCTGGCYCTG-----  
M37: -----CTGCCACCT-----  
M38: -----CNCTGGCCTC-----  
M39: -----TCTCTCCCM-----  
M40: -----TCTGTGGCT-----  
M41: -----AGGCTCTGGG-----  
M42: -----TCTTCTCTG-----  
M43: -----CCCCWGCTTCT-----  
M44: -----CCCCCCCCCWCCCCA-----  
M45: -----GCTCCAGGM-----  
M46: -----TTCTGCCTCC-----  
M47: -----TGCTGCCYCCT-----  
M48: -----CTCTGGGRA-----  
M49: -----TTTCCTTTCCYTT-----  
M50: -----TTTCTTCTG-----  
M51: -----TCCTTCCTTCTTT-----  
M52: -----CTCTCTCCT-----  
M53: -----CCKCCCCCTCCCCCCCC-----  
M54: -----CCTKTCTG-----  
M55: -----CCCTKCTCTGT-----  
M56: -----NCCCAGCTGC-----  
M57: -----CCCACCCAGCCCC-----  
M58: -----CTTCTTCCCTT-----  
M59: -----TCTTTCCCTG-----  
M60: -----TTTTTTTTTTCTTTCTTTTTTTTT-----  
M61: -----CTGGCTTCC-----  
M62: -----CTGCTSAGGA-----  
M63: -----TCTGTCTGIGT-----  
M64: -----TTTCCCCAGT-----  
M65: -----TTTCCTCTGT-----

```

M66: -----TTTTTTTTTTCTTTCTTTTTTTT-----
M67: -----CTGCMAGGG-----
M68: -----CCTKTCTCCT-----
M69: -----TTTTTTTTTTCTTTTTTTTTTT-----
M70: -----CCCCCCCCCACCTCTCCCC-----
M71: -----TCCCTTCTG-----
M72: -----CTGGCCAS-----
M73: -----CCTGCCTG-----
M74: -----CTGCTGGG-----
M75: -----CTGGGCTG-----
M76: -----TCCCAGG-----
M77: -----CAGCCTG-----
M78: -----CTGCAGCC-----
M79: -----CTCCTGGG-----
M80: -----CTTCCCAG-----
M81: -----CTGCTGTG-----
M82: -----CCTCAGCC-----
M83: -----CCCASCTG-----
M84: -----CAGCCTCT-----
M85: -----CTCCAGRG-----
M86: -----CTCCCCTG-----
M87: -----CTCTGTG-----
    
```

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



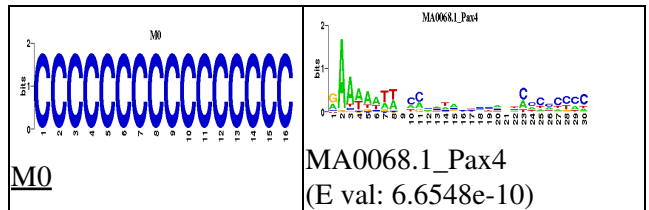
## Motif Tree

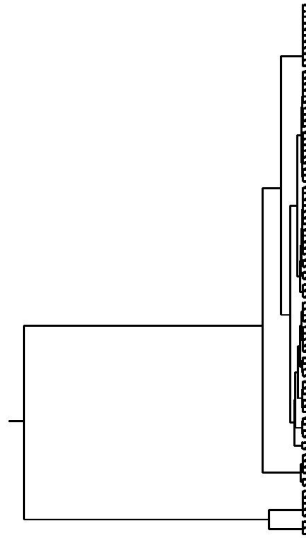
Tree (drawn by [Phylip](#))

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

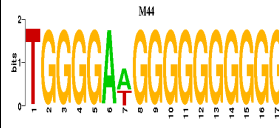
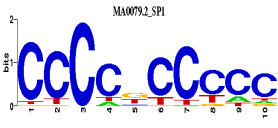
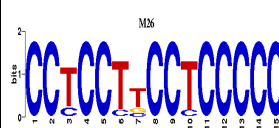
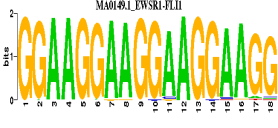

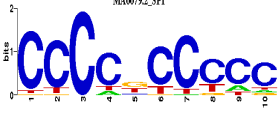

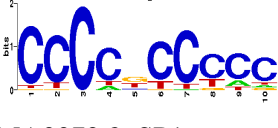

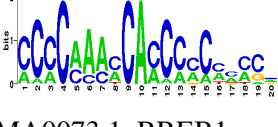

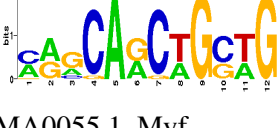

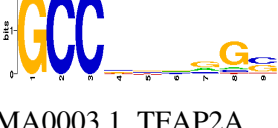


Input Motif

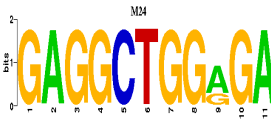


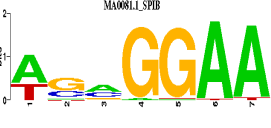



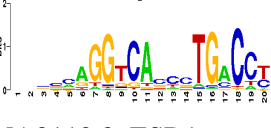



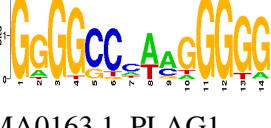

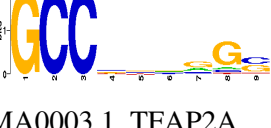


Best match in  
JASPAR


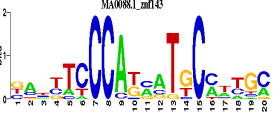



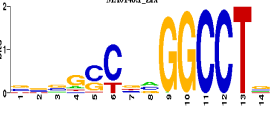





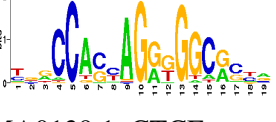

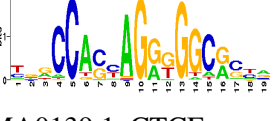
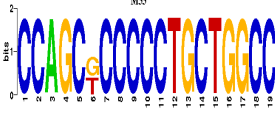
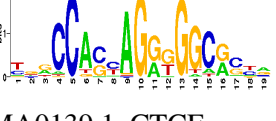


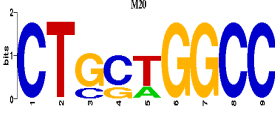




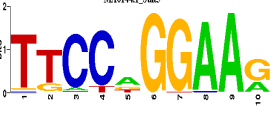



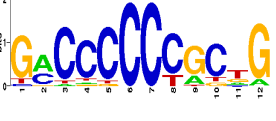
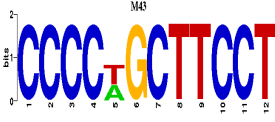

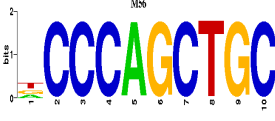





<p><b>M4</b></p>	<p>MA0068.1_Pax4 (E val: 6.2811e-12)</p>
<p><b>M5</b></p>	<p>MA0073.1_RREB1 (E val: 2.6742e-11)</p>
<p><b>M10</b></p>	<p>MA0068.1_Pax4 (E val: 1.6926e-10)</p>
<p><b>M22</b></p>	<p>MA0073.1_RREB1 (E val: 2.2204e-16)</p>
<p><b>M53</b></p>	<p>MA0079.2_SP1 (E val: 3.3641e-12)</p>
<p><b>M19</b></p>	<p>MA0079.2_SP1 (E val: 3.4259e-07)</p>
<p><b>M70</b></p>	<p>MA0073.1_RREB1 (E val: 1.3327e-10)</p>
<p><b>M16</b></p>	<p>MA0079.2_SP1 (E val: 3.5253e-10)</p>

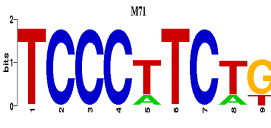

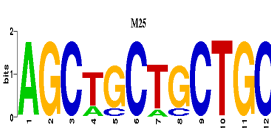
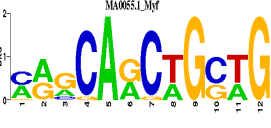




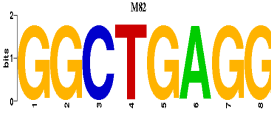


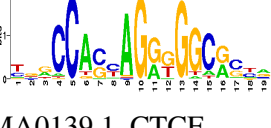

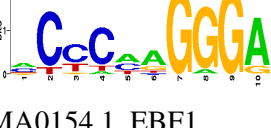

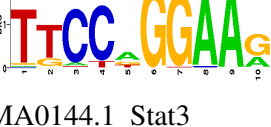
 <p><b>M44</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 3.0653e-09)</p>
 <p><b>M26</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 2.4547e-09)</p>
 <p><b>M2</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 6.1481e-08)</p>
 <p><b>M6</b></p>	 <p><b>MA0079.2_SP1</b> (E val: 6.1481e-08)</p>
 <p><b>M57</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 1.3244e-06)</p>
 <p><b>M29</b></p>	 <p><b>MA0055.1_Myf</b> (E val: 1.8829e-04)</p>
 <p><b>M23</b></p>	 <p><b>MA0003.1_TFAP2A</b> (E val: 3.6859e-05)</p>
 <p><b>M75</b></p>	 <p><b>MA0320.1_IME1</b> (E val: 2.7998e-04)</p>




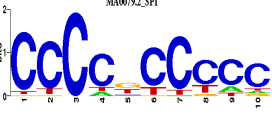


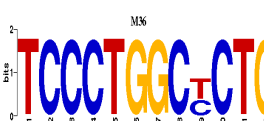




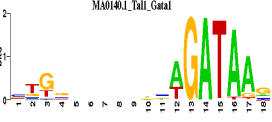
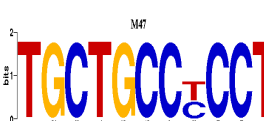
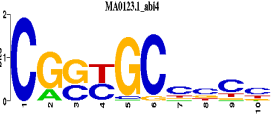


 <p><b>M24</b></p>	 <p><b>MA0344.1_NHP10</b> (E val: 1.0824e-04)</p>
 <p><b>M84</b></p>	 <p><b>MA0081.1_SPIB</b> (E val: 2.0345e-03)</p>
 <p><b>M31</b></p>	 <p><b>MA0344.1_NHP10</b> (E val: 4.6270e-05)</p>
 <p><b>M77</b></p>	 <p><b>MA0112.2_ESR1</b> (E val: 7.9587e-05)</p>
 <p><b>M21</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 3.2861e-04)</p>
 <p><b>M41</b></p>	 <p><b>MA0163.1_PLAG1</b> (E val: 7.2923e-04)</p>
 <p><b>M30</b></p>	 <p><b>MA0003.1_TFAP2A</b> (E val: 1.2648e-04)</p>
 <p><b>M48</b></p>	 <p><b>MA0137.2_STAT1</b> (E val: 1.6396e-04)</p>

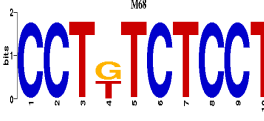
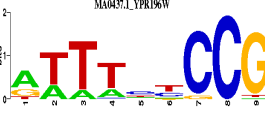
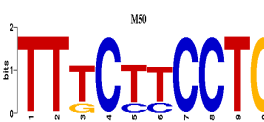


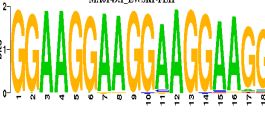
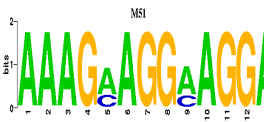
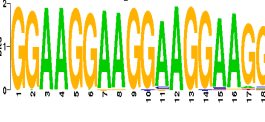



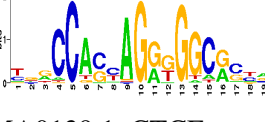

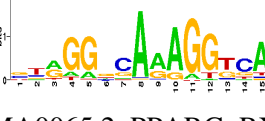


 <p><b>M80</b></p>	 <p><b>MA0088.1_znf143</b> (E val: 3.9167e-05)</p>
 <p><b>M76</b></p>	 <p><b>MA0344.1_NHP10</b> (E val: 2.1639e-06)</p>
 <p><b>M28</b></p>	 <p><b>MA0146.1_Zfx</b> (E val: 4.7836e-06)</p>
 <p><b>M38</b></p>	 <p><b>MA0114.1_HNF4A</b> (E val: 9.7235e-04)</p>
 <p><b>M67</b></p>	 <p><b>MA0155.1_INSM1</b> (E val: 8.2581e-07)</p>
 <p><b>M8</b></p>	 <p><b>MA0139.1_CTCF</b> (E val: 0.0000e+00)</p>
 <p><b>M12</b></p>	 <p><b>MA0139.1_CTCF</b> (E val: 1.3799e-12)</p>
 <p><b>M33</b></p>	 <p><b>MA0139.1_CTCF</b> (E val: 1.9921e-11)</p>

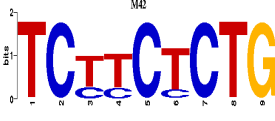


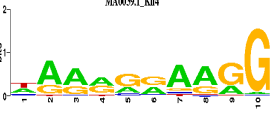
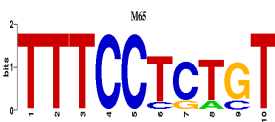
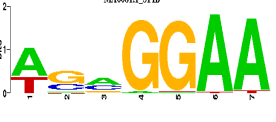

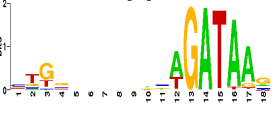
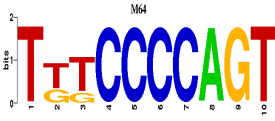
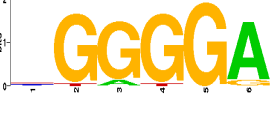

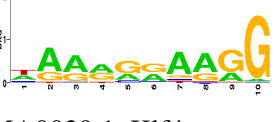
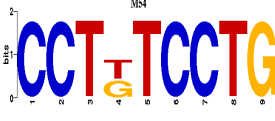



 <p><b>M20</b></p>	 <p><b>MA0402.1_SWI5</b> (E val: 2.6518e-05)</p>
 <p><b>M74</b></p>	 <p><b>MA0402.1_SWI5</b> (E val: 1.0987e-06)</p>
 <p><b>M79</b></p>	 <p><b>MA0144.1_Stat3</b> (E val: 2.4818e-05)</p>
 <p><b>M81</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 1.7502e-05)</p>
 <p><b>M15</b></p>	 <p><b>MA0456.1_opa</b> (E val: 4.3366e-05)</p>
 <p><b>M43</b></p>	 <p><b>MA0305.1_GCR2</b> (E val: 4.4479e-06)</p>
 <p><b>M56</b></p>	 <p><b>MA0048.1_NHLH1</b> (E val: 5.7398e-08)</p>
 <p><b>M83</b></p>	 <p><b>MA0086.1_sna</b> (E val: 5.6197e-07)</p>

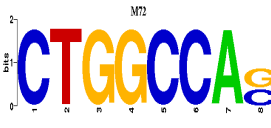
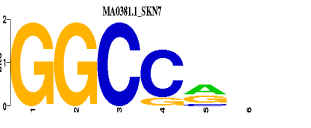



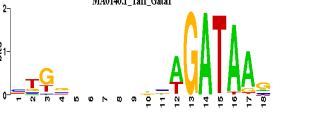

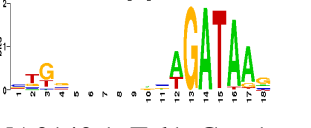
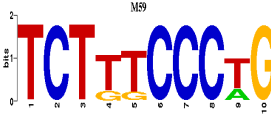
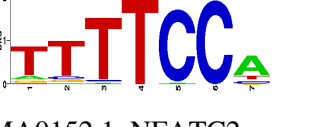
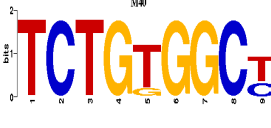



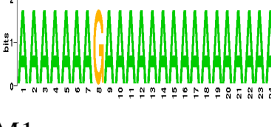



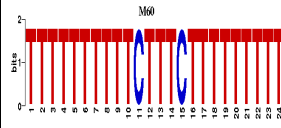

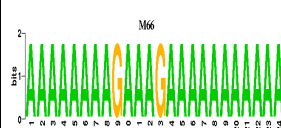

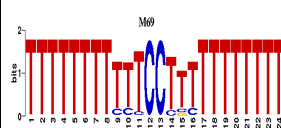

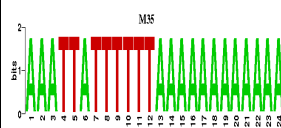


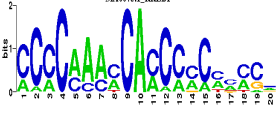
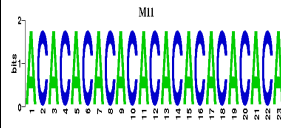
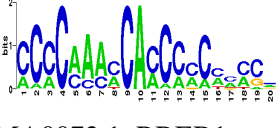

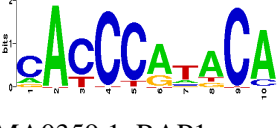
 <p><b>M71</b></p>	 <p><b>MA0154.1_EBF1</b> (E val: 6.6789e-04)</p>
 <p><b>M25</b></p>	 <p><b>MA0055.1_Myf</b> (E val: 4.4183e-11)</p>
 <p><b>M78</b></p>	 <p><b>MA0055.1_Myf</b> (E val: 3.8103e-04)</p>
 <p><b>M62</b></p>	 <p><b>MA0150.1_NFE2L2</b> (E val: 2.5268e-04)</p>
 <p><b>M82</b></p>	 <p><b>MA0283.1_CHA4</b> (E val: 3.2748e-05)</p>
 <p><b>M32</b></p>	 <p><b>MA0139.1_CTCF</b> (E val: 8.5938e-06)</p>
 <p><b>M85</b></p>	 <p><b>MA0154.1_EBF1</b> (E val: 6.6483e-06)</p>
 <p><b>M45</b></p>	 <p><b>MA0144.1_Stat3</b> (E val: 4.1410e-06)</p>

 <p><b>M7</b></p>	 <p>MA0112.2_ESR1 (E val: 6.2706e-08)</p>
 <p><b>M14</b></p>	 <p>MA0079.2_SP1 (E val: 3.0803e-09)</p>
 <p><b>M13</b></p>	 <p>MA0065.2_PPARG_RXRA (E val: 1.3765e-04)</p>
 <p><b>M36</b></p>	 <p>MA0344.1_NHP10 (E val: 7.1944e-07)</p>
 <p><b>M37</b></p>	 <p>MA0373.1_RPN4 (E val: 8.2821e-07)</p>
 <p><b>M46</b></p>	 <p>MA0140.1_Tal1_Gata1 (E val: 9.1941e-05)</p>
 <p><b>M47</b></p>	 <p>MA0123.1_abi4 (E val: 3.6987e-05)</p>
 <p><b>M52</b></p>	 <p>MA0354.1_PDR8 (E val: 1.5359e-03)</p>

 <p><b>M68</b></p>	 <p><b>MA0437.1_YPR196W</b> (E val: 8.2689e-05)</p>
 <p><b>M50</b></p>	 <p><b>MA0156.1_FEV</b> (E val: 1.3157e-06)</p>
 <p><b>M58</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 7.6385e-07)</p>
 <p><b>M51</b></p>	 <p><b>MA0149.1_EWSR1-FLI1</b> (E val: 1.3323e-15)</p>
 <p><b>M73</b></p>	 <p><b>MA0340.1_MOT3</b> (E val: 3.2869e-05)</p>
 <p><b>M9</b></p>	 <p><b>MA0139.1_CTCF</b> (E val: 6.7276e-05)</p>
 <p><b>M18</b></p>	 <p><b>MA0065.2_PPARG_RXRA</b> (E val: 2.2442e-08)</p>
 <p><b>M86</b></p>	 <p><b>MA0364.1_REI1</b> (E val: 1.4987e-07)</p>

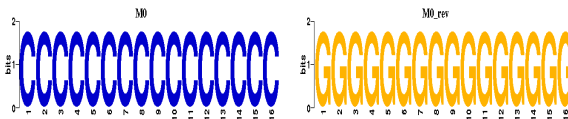
 <p><b>M42</b></p>	 <p><b>MA0029.1_Evi1</b> (E val: 1.6087e-04)</p>
 <p><b>M55</b></p>	 <p><b>MA0039.1_Klf4</b> (E val: 2.7522e-03)</p>
 <p><b>M65</b></p>	 <p><b>MA0081.1_SPIB</b> (E val: 4.4572e-09)</p>
 <p><b>M34</b></p>	 <p><b>MA0140.1_Tal1_Gata1</b> (E val: 1.6143e-08)</p>
 <p><b>M64</b></p>	 <p><b>MA0056.1_MZF1_1-4</b> (E val: 1.1400e-04)</p>
 <p><b>M49</b></p>	 <p><b>MA0039.1_Klf4</b> (E val: 2.7706e-07)</p>
 <p><b>M54</b></p>	 <p><b>MA0156.1_FEV</b> (E val: 1.2864e-06)</p>
 <p><b>M61</b></p>	 <p><b>MA0304.1_GCR1</b> (E val: 8.0987e-09)</p>

 <p><b>M72</b></p>	 <p><b>MA0381.1_SKN7</b> (E val: 1.3090e-04)</p>
 <p><b>M17</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 6.8317e-03)</p>
 <p><b>M27</b></p>	 <p><b>MA0140.1_Tal1_Gata1</b> (E val: 6.7213e-03)</p>
 <p><b>M39</b></p>	 <p><b>MA0140.1_Tal1_Gata1</b> (E val: 7.8904e-06)</p>
 <p><b>M59</b></p>	 <p><b>MA0152.1_NFATC2</b> (E val: 9.9386e-04)</p>
 <p><b>M40</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 1.4100e-08)</p>
 <p><b>M87</b></p>	 <p><b>MA0332.1_MET28</b> (E val: 6.2435e-06)</p>
 <p><b>M1</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 1.0088e-11)</p>

 <p><b>M60</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 1.0088e-11)</p>
 <p><b>M66</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 1.0088e-11)</p>
 <p><b>M69</b></p>	 <p><b>MA0045.1_HMG-I_Y</b> (E val: 4.2048e-08)</p>
 <p><b>M35</b></p>	 <p><b>MA0277.1_AZF1</b> (E val: 5.7562e-07)</p>
 <p><b>M3</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 4.5541e-05)</p>
 <p><b>M11</b></p>	 <p><b>MA0073.1_RREB1</b> (E val: 5.4545e-05)</p>
 <p><b>M63</b></p>	 <p><b>MA0359.1_RAP1</b> (E val: 1.1792e-04)</p>

### Motif Similarity Matches

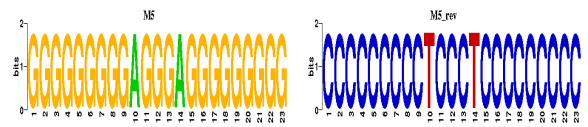
**M0**





	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0068.1_Pax4	6.2811e-12	GGGGGGGGGGAGGAGGGGGGGGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	
MA0073.1_RREB1	1.4953e-10	GGGGGGGGGGAGGAGGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-----	
MA0079.2_SP1	1.4226e-08	CCCCCCCCCTCCTCCCCCCCCCC CCCNCCCC-----	
MA0149.1_EWSR1-FLI1	7.7235e-06	CCCCCCCCCTCCTCCCCCCCCCC ---CCTTCCTTCCTTCCTTCC---	
MA0443.1_btd	6.6132e-05	CCCCCCCCCTCCTCCCCCCCCCC -----YCCGCCMCN-----	
MA0366.1_RGM1	9.1437e-05	CCCCCCCCCTCCTCCCCCCCCCC -----CCCCT-----	
MA0342.1_MSN4	9.5799e-05	GGGGGGGGGGAGGAGGGGGGGGGG -----AGGG-----	
MA0456.1_opa	1.4927e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----CNGCGGGGGGKC	
MA0163.1_PLA1	1.8929e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----GGGGCCNAAGGGG-----	
MA0341.1_MSN2	2.2379e-04	GGGGGGGGGGAGGAGGGGGGGGGG -----AGGG-----	

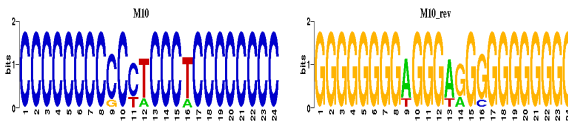
M5

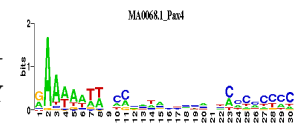
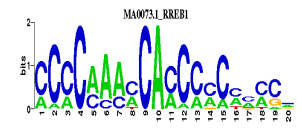
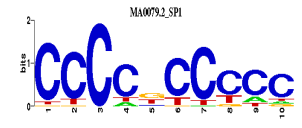
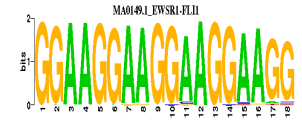
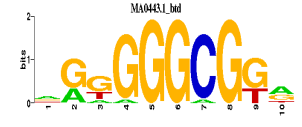

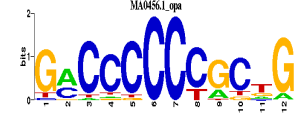


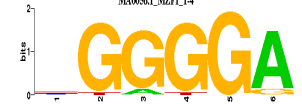




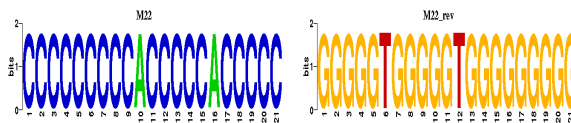
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	2.6742e-11	-GGGGGGGGGAGGGAGGGGGGGGG NGKKKGKGGGTGKTTTGGGG----	
MA0068.1_Pax4	2.3944e-10	GGGGGGGGGAGGGAGGGGGGGGG----- -GKRNNNNKNNNNNNNNNNNNKNNWWWTTTY	
MA0079.2_SP1	3.9976e-08	GGGGGGGGGAGGGAGGGGGGGGG ----GGGGGNGGGG-----	
MA0149.1_EWSR1-FLI1	4.9012e-06	CCCCCCCCCTCCCTCCCCCCCCC --CCTTCCTTCCTTCCTTC--	
MA0366.1_RGM1	8.4483e-05	CCCCCCCCCTCCCTCCCCCCCCC ----CCCCT-----	
MA0342.1_MSN4	8.8494e-05	GGGGGGGGGAGGGAGGGGGGGGG -----AGGGG-----	
MA0443.1_btd	1.0056e-04	CCCCCCCCCTCCCTCCCCCCCCC -----YCCGCCMCN	
MA0456.1_opa	1.1041e-04	GGGGGGGGGAGGGAGGGGGGGGG- -----CNGCGGGGGK	
MA0341.1_MSN2	2.0604e-04	GGGGGGGGGAGGGAGGGGGGGGG -----AGGGG-----	
MA0163.1_PLAG1	5.9283e-04	GGGGGGGGGAGGGAGGGGGGGGG ----GGGGCCNAAGGGG----	

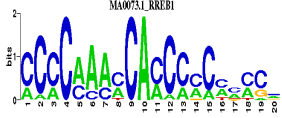
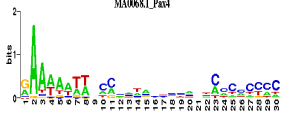
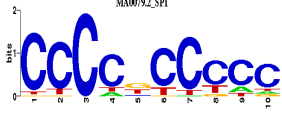
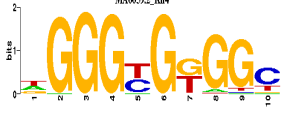



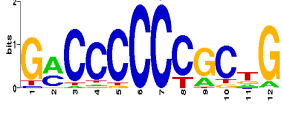


**M10**



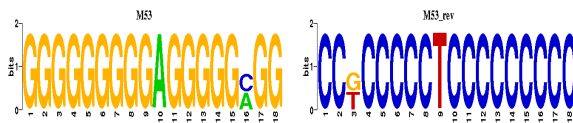
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0068.1_Pax4	1.6926e-10	GGGGGGGGAGGGAGGGGGGGGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	
MA0073.1_RREB1	2.7487e-09	--GGGGGGGGAGGGAGGGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-----	
MA0079.2_SP1	2.0708e-08	CCCCCCCCCTCCCTCCCCCCC CCCNCCCC-----	
MA0149.1_EWSR1-FLI1	2.3196e-06	CCCCCCCCCTCCCTCCCCCCC ---CCTTCCTTCCTTCCTTC--	
MA0443.1_btd	1.3845e-04	CCCCCCCCCTCCCTCCCCCCC- -----YCCGCCMCN	
MA0366.1_RGM1	1.7794e-04	CCCCCCCCCTCCCTCCCCCCC -----CCCCT-----	
MA0456.1_opa	2.1224e-04	CCCCCCCCCTCCCTCCCCCCC -GMCCCCCGCNG-----	
MA0342.1_MSNA	2.1586e-04	CCCCCCCCCTCCCTCCCCCCC -----CCCCT-----	
MA0341.1_MSNA	6.7732e-04	GGGGGGGGAGGGAGGGGGGGGGGG -----AGGG-----	
MA0056.1_MZF1_1-4	1.4833e-03	CCCCCCCCCTCCCTCCCCCCC -----TCCCN---	

**M22**



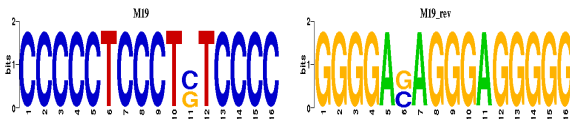
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	2.2204e-16	GGGGGTGGGGGTGGGGGGGGG -NGKKKGKGGGTGKTTTGGGG	
MA0068.1_Pax4	1.5896e-11	GGGGGTGGGGGTGGGGGGGGG----- -GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	
MA0079.2_SP1	8.4190e-08	CCCCCCCCACCCCCACCCCC -----CCCNCCCC-----	
MA0039.2_Klf4	2.7129e-05	CCCCCCCCACCCCCACCCCC -----GCCMCRCNN-----	
MA0436.1_YPR022C	4.3236e-05	GGGGGTGGGGGTGGGGGGGGG ---NGTGGGG-----	
MA0268.1_ADR1	1.3747e-04	GGGGGTGGGGGTGGGGGGGGG ---KTGGGGN-----	
MA0373.1_RPN4	3.8348e-04	GGGGGTGGGGGTGGGGGGGGG ---GGTGGCG-----	
MA0456.1_opa	7.4132e-04	GGGGGTGGGGGTGGGGGGGGG -----CNGCGGGGGGKC-	
MA0443.1_btd	9.3652e-04	CCCCCCCCACCCCCACCCCC YCCGCCMCN-----	
MA0337.1_MIG1	1.0473e-03	GGGGGTGGGGGTGGGGGGGGG ---SYGGGN-----	

**M53**



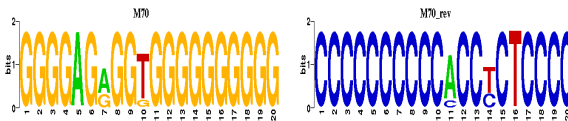
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.3641e-12	GGGGGGGGGAGGGGGMGG ----GGGGNNGGGG----	
MA0073.1_RREB1	1.2942e-07	-GGGGGGGGGAGGGGGMGG- NGKKKGKGGGTGKTTTGGGG	
MA0068.1_Pax4	2.2525e-07	GGGGGGGGGAGGGGGMGG----- -GKRNNNNKNNNNNNNNNNKNNWWWTTTY	
MA0443.1_btd	1.0648e-05	-CCKCCCCCTCCCCCCCCC YCCGCCMCN-----	
MA0163.1_PLAG1	2.8877e-05	CCKCCCCCTCCCCCCCCC ---CCCCCTTNGGCC--	
MA0366.1_RGM1	4.8282e-05	CCKCCCCCTCCCCCCCCC ----CCCT-----	
MA0342.1_MSN4	5.0603e-05	GGGGGGGGGAGGGGGMGG -----AGGG-----	
MA0341.1_MSN2	1.1916e-04	GGGGGGGGGAGGGGGMGG -----AGGG-----	
MA0140.1_Tal1_Gata1	4.5969e-04	CCKCCCCCTCCCCCCCCC-- --NTTATCTNNNNNNNNCNN	
MA0056.1_MZF1_1-4	5.5865e-04	CCKCCCCCTCCCCCCCCC -----TCCCN-----	

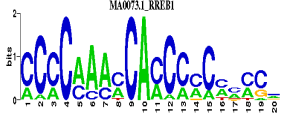
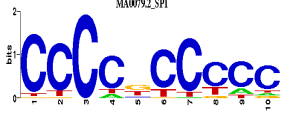
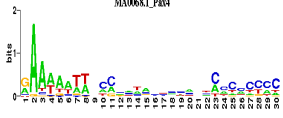



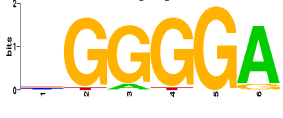

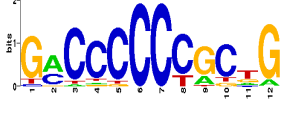
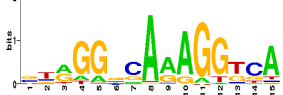
**M19**



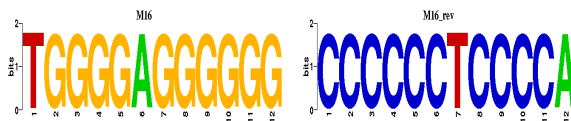
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.4259e-07	CCCCCTCCCTSTCCCC -CCCNCCCC-----	
MA0366.1_RGM1	3.6566e-05	CCCCCTCCCTSTCCCC -CCCT-----	
MA0342.1_MSX4	3.8326e-05	GGGASAGGGAGGGG -----AGGG-	
MA0341.1_MSX2	9.0391e-05	GGGASAGGGAGGGG -----AGGG-	
MA0159.1_RXR_RAR_DR5	2.3527e-04	--CCCCCTCCCTSTCCCC TGACCTNYNNNTGAMCY-	
MA0073.1_RREB1	2.3783e-04	CCCCCTCCCTSTCCCC---- CCCCAAMCACCCMCMMMC	
MA0056.1_MZF1_1-4	4.0138e-04	CCCCCTCCCTSTCCCC- -----TCCCN	
MA0057.1_MZF1_5-13	8.5330e-04	GGGASAGGGAGGGG-- -----NKAGGGNAN	
MA0068.1_Pax4	1.1283e-03	-----CCCCCTCCCTSTCCCC RAAWAWWWNNMNNNNNNNNNNMNNNNNYMC--	
MA0456.1_opa	1.1669e-03	GGGASAGGGAGGGG- -----CNGCGGGGGKC	

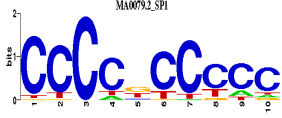



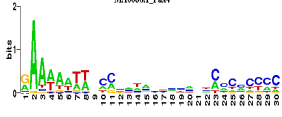

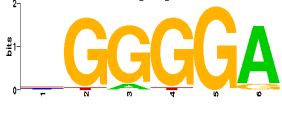


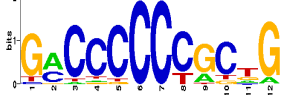
**M70**



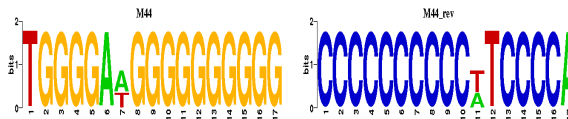
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	1.3327e-10	-GGGGAGAGGTGGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-	
MA0079.2_SP1	8.0984e-09	CCCCCCCCCACCTCTCCCC CCCNCCCC-----	
MA0068.1_Pax4	2.7975e-08	-GGGGAGAGGTGGGGGGGGGG----- GKRNNNNKNNNNNNNNNNKNNWWWTWTYY	
MA0436.1_YPR022C	5.4966e-05	GGGGAGAGGTGGGGGGGGGG -----NGTGGGG-----	
MA0268.1_ADR1	1.9660e-04	GGGGAGAGGTGGGGGGGGGG -----KTGGGGN-----	
MA0373.1_RPN4	3.9724e-04	GGGGAGAGGTGGGGGGGGGG -----GGTGGCG-----	
MA0056.1_MZF1_1-4	8.3456e-04	CCCCCCCCCACCTCTCCCC- -----TCCCN	
MA0443.1_btd	8.4406e-04	CCCCCCCCCACCTCTCCCC YCCGCCMCN-----	
MA0456.1_opa	1.0654e-03	GGGGAGAGGTGGGGGGGGGG -----CNGCGGGGGKGC--	
MA0065.2_PPARG_RXRA	1.3888e-03	---GGGGAGAGGTGGGGGGGGGG NNRGGNCAAAGGKCA-----	

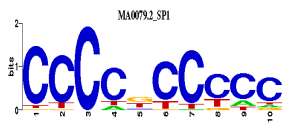
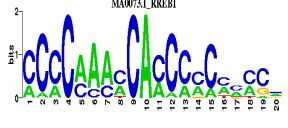
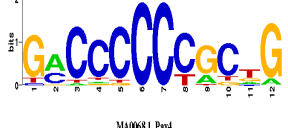
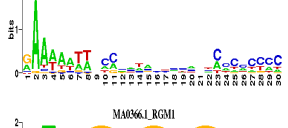

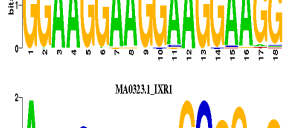



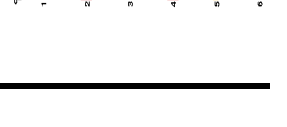
**M16**



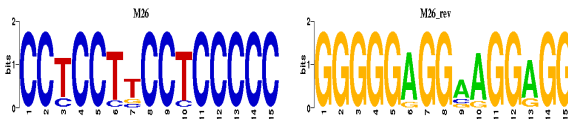
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.5253e-10	CCCCCCTCCCCA --CCCNCCCCC	
MA0366.1_RGM1	1.5007e-05	CCCCCCTCCCCA --CCCCT-----	
MA0342.1_MSN4	1.5750e-05	TGGGGAGGGGGG -----AGGGG--	
MA0341.1_MSN2	3.8085e-05	TGGGGAGGGGGG -----AGGGG--	
MA0068.1_Pax4	4.7656e-05	-----CCCCCCTCCCCA--- RAAWAWWWNNMNNNNNNNNNNMNNNNNYMC	
MA0323.1_IXR1	5.9901e-05	CCCCCCTCCCCA--- CMCCGCTTCCGGYTT	
MA0056.1_MZF1_1-4	1.7505e-04	CCCCCCTCCCCA -----TCCCN	
MA0057.1_MZF1_5-13	1.8793e-04	TGGGGAGGGGGG- ---NKAGGGGNAN	
MA0039.2_Klf4	5.2767e-04	CCCCCCTCCCCA -GCCMCRCN-	
MA0456.1_opa	5.3973e-04	TGGGGAGGGGGG-- --CNGCGGGGGK	

**M44**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.0653e-09	CCCCCCCCCWCCCCA CCCCNCCCCC-----	
MA0073.1_RREB1	4.7460e-06	----TGGGGAWGGGGGGGGG NGKKKGKGGGTGKTTTGGGG-	
MA0456.1_opa	6.7778e-05	TGGGGAWGGGGGGGGGG -----CNGCGGGGGGKC	
MA0068.1_Pax4	1.7738e-04	TGGGGAWGGGGGGGGGG----- --GKRNNNNKNNNNNNNNNNNNKNNWWWTWT TY	
MA0366.1_RGM1	2.1431e-04	CCCCCCCCCWCCCCA -----CCCCT-----	
MA0149.1_EWSR1-FLI1	2.4476e-04	TGGGGAWGGGGGGGGGG---- ---GGAAGGAAGGAAGGAAGG	
MA0323.1_IXR1	2.6688e-04	CCCCCCCCCWCCCCA-- ----CMCCGCTTCGGYTT	
MA0342.1_MSN4	3.2820e-04	TGGGGAWGGGGGGGGGG -----AGGGG-----	
MA0443.1_btd	4.5941e-04	CCCCCCCCCWCCCCA YCCGCCMCN-----	
MA0056.1_MZF1_1-4	5.3767e-04	CCCCCCCCCWCCCCA -----TCCCCN	

**M26**

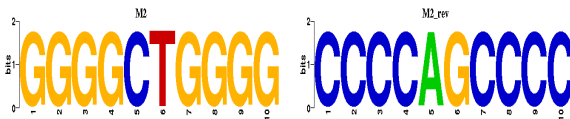




*forward* *reverse compliment*

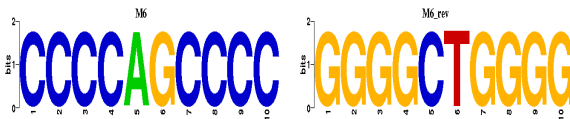
Name	E value	Alignment	Motif
MA0149.1_EWSR1-FLI1	2.4547e-09	-CCTCCTTCCTCCCC-- CCTTCCTTCCTTCCTTCC	
MA0079.2_SPI1	4.4062e-06	GGGGGAGGAAGGAGG GGGGGNGGGG-----	
MA0443.1_btd	1.5450e-05	CCTCCTTCCTCCCC-- -----YCCGCCMCN	
MA0080.2_SPI1	1.7044e-05	CCTCCTTCCTCCCC ---ACTTCCT-----	
MA0163.1_PLAG1	3.0514e-05	CCTCCTTCCTCCCC CCCCCTTNGGCCCC--	
MA0081.1_SPIB	1.1579e-04	CCTCCTTCCTCCCC -----TTCKST---	
MA0056.1_MZF1_1-4	3.6373e-04	CCTCCTTCCTCCCC -----TCCCN	
MA0090.1_TEAD1	4.9369e-04	GGGGGAGGAAGGAGG --CNSWGAATGTR--	
MA0039.1_Klf4	5.5837e-04	GGGGGAGGAAGGAGG --NAARRRAAGG---	
MA0068.1_Pax4	6.8869e-04	-GGGGGAGGAAGGAGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY	

M2



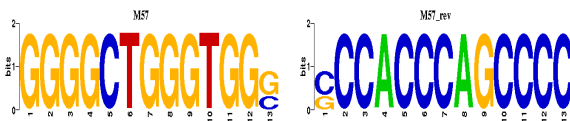
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	6.1481e-08	-GGGGCTGGGG GGGGGNGGGG-	
MA0344.1_NHP10	1.0450e-04	GGGGCTGGGG- ---NCCGGGGA	
MA0039.2_Klf4	3.0507e-04	-CCCCAGCCCC GCCMCRCNN-	
MA0332.1_MET28	5.3056e-04	CCCCAGCCCC CCACAG----	
MA0079.1_SP1	6.1064e-04	CCCCAGCCCC ACCCNGCCNN	
MA0267.1_ACE2	6.9099e-04	GGGGCTGGGG --NGCTGGN-	
MA0268.1_ADR1	8.1934e-04	GGGGCTGGGG- ----KTGGGGN	
MA0436.1_YPR022C	8.4360e-04	GGGGCTGGGG ---NGTGGGG	
MA0443.1_btd	8.6093e-04	--GGGGCTGGGG NGKGGGCGGR--	
MA0065.2_PPARG_RXRA	1.9722e-03	--GGGGCTGGGG--- NNRGGNCAAAGGKCA	

M6

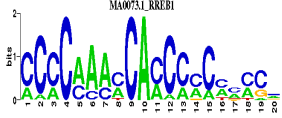
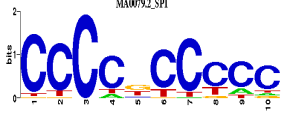

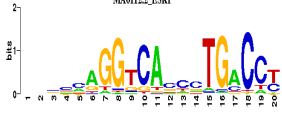

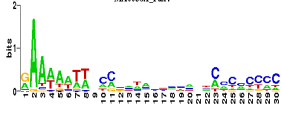

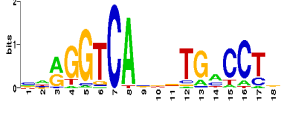




	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	6.1481e-08	-GGGGCTGGGG GGGGGNGGGG-	
MA0344.1_NHP10	1.0450e-04	GGGGCTGGGG- ---NCCGGGGA	
MA0039.2_Klf4	3.0507e-04	-CCCCAGCCCC GCCMCRCNN-	
MA0332.1_MET28	5.3056e-04	CCCCAGCCCC CCACAG----	
MA0079.1_SP1	6.1064e-04	CCCCAGCCCC ACCCNGCCNN	
MA0267.1_ACE2	6.9099e-04	GGGGCTGGGG --NGCTGGN-	
MA0268.1_ADR1	8.1934e-04	GGGGCTGGGG- ----KTGGGGN	
MA0436.1_YPR022C	8.4360e-04	GGGGCTGGGG ---NGTGGGG	
MA0443.1_btd	8.6093e-04	--GGGGCTGGGG NGKGGGCGGR--	
MA0065.2_PPARG_RXRA	1.9722e-03	--GGGGCTGGGG--- NNRGGNCAAAGGKCA	

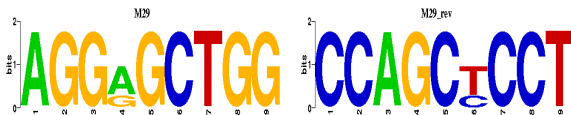
**M57**



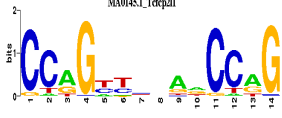
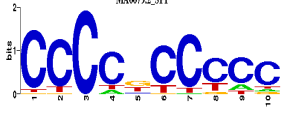





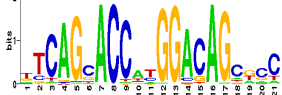


*forward*                      *reverse compliment*

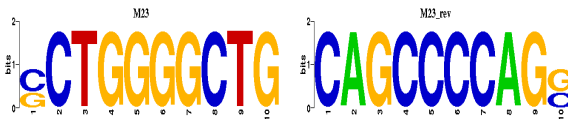
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	1.3244e-06	-----GGGGCTGGGTGGG-- NGKKKGKGGGTGKTTTGGGG	
MA0079.2_SP1	1.4487e-06	-GGGGCTGGGTGGG GGGGNGGGG-----	
MA0079.1_SP1	4.4040e-05	CCCACCCAGCCCC ---ACCCNGCCNN	
MA0112.2_ESR1	2.0005e-04	GGGGCTGGGTGGG----- RGGTCANNNTGACCTNNNNN	
MA0373.1_RPN4	6.6971e-04	GGGGCTGGGTGGG- -----GGTGGCG	
MA0068.1_Pax4	8.9062e-04	-----CCCACCCAGCCCC- RAAWAWWWNNMNNNNNNNNNNMNNNNNYMC	
MA0039.2_Klf4	1.1750e-03	GGGGCTGGGTGGG-- -----NGGGYGKGGC	
MA0258.1_ESR2	1.4318e-03	---CCCACCCAGCCCC-- NAGGNCANNNTGACCYN	
MA0009.1_T	1.8817e-03	GGGGCTGGGTGGG-- ----CTAGGTGTGAA	
MA0267.1_ACE2	2.0422e-03	GGGGCTGGGTGGG --NGCTGN-----	

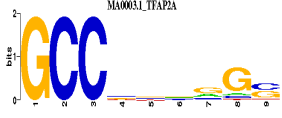
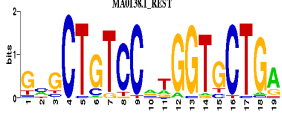

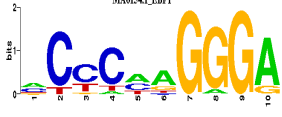
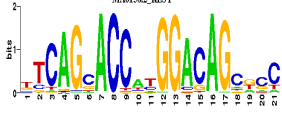




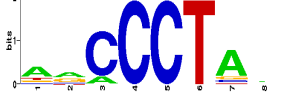
M29



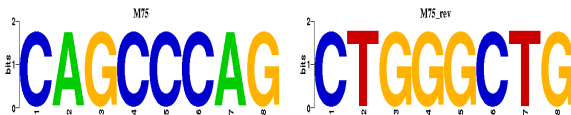
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0055.1_Myf	1.8829e-04	--CCAGCTCCT- CAGCAGYTG CYK	
MA0267.1_ACE2	3.9729e-04	AGGAGCTGG- ---NGCTGGN	
MA0145.1_Tcfcp2l1	4.3082e-04	-----AGGAGCTGG CYGGNTNNRNCYGG	
MA0079.2_SP1	9.4986e-04	-CCAGCTCCT CCCCNCCCC	
MA0402.1_SWI5	1.5039e-03	AGGAGCTGG-- ---TGCTGGTN	
MA0048.1_NHLH1	1.6147e-03	-AGGAGCTGG-- NCGCAGCTGCGN	
MA0366.1_RGM1	1.8408e-03	CCAGCTCCT ----CCCCT	
MA0342.1_MSNA	1.9060e-03	CCAGCTCCT ----CCCCT	
MA0341.1_MSNA	3.5864e-03	AGGAGCTGG AGGGG----	
MA0138.2_REST	4.9744e-03	AGGAGCTGG----- -GNNCTGTCCNNGGTGCTGAN	

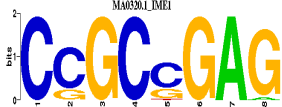




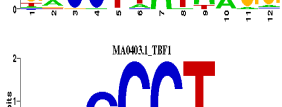
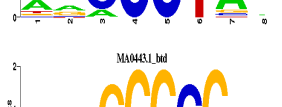



M23



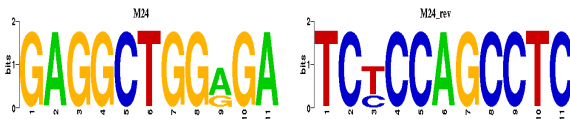
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0003.1_TFAP2A	3.6859e-05	-SCTGGGGCTG SCNNNNGGC--	
MA0138.1_REST	9.9661e-05	-CAGCCCCAGS----- TCAGCACCWNGGACAGCNC	
MA0213.1_brk	1.7897e-04	CAGCCCCAGS -RGCGCCRS-	
MA0154.1_EBF1	2.4451e-04	--SCTGGGGCTG TCCCTNGGGN--	
MA0138.2_REST	2.6401e-04	-----SCTGGGGCTG-- GNNCTGTCCNNGGTGCTGAN	
MA0332.1_MET28	5.3056e-04	CAGCCCCAGS ---CCACAG-	
MA0268.1_ADR1	8.1934e-04	SCTGGGGCTG -KTGGGGN--	
MA0436.1_YPR022C	8.4360e-04	SCTGGGGCTG NGTGGGG---	
MA0163.1_PLAG1	1.9172e-03	---SCTGGGGCTG- CCCCCTTNGGCCCC	
MA0403.1_TBF1	2.5651e-03	SCTGGGGCTG -NTAGGGYT-	





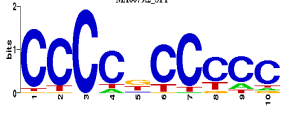
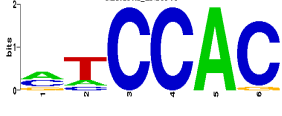




M75



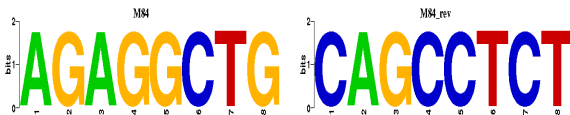
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0320.1_IME1	2.7998e-04	CTGGGCTG CTCGGCCG	
MA0368.1_RIM101	1.0523e-03	CTGGGCTG CTTGCCR-	
MA0162.1_Egr1	2.4628e-03	CAGCCCAG--- MCGCCCACGCN	
MA0145.1_Tcfcp211	7.8645e-03	-----CTGGGCTG- CYGGNTNNRNCYGG	
MA0083.1_SRF	9.7960e-03	-----CTGGGCTG CCATATATGGGC--	
MA0403.1_TBF1	1.2131e-02	-CTGGGCTG NTAGGGYT-	
MA0443.1_btd	1.5198e-02	-CAGCCCAG- YCCGCCMCN	
MA0436.1_YPR022C	2.0287e-02	-CTGGGCTG NGTGGGG--	
MA0267.1_ACE2	2.0734e-02	CTGGGCTG-- ---NGCTGGN	
MA0412.1_UME6	2.2103e-02	-----CAGCCCAG AwwTAGCCGCCSA-	

M24









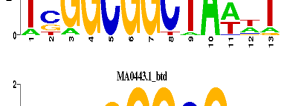



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	1.0824e-04	GAGGCTGGAGA ---NCCGGGGGA	
MA0410.1_UGA3	7.7215e-04	TCTCCAGCCTC --TCCCGCCN-	
MA0267.1_ACE2	1.0967e-03	GAGGCTGGAGA --NGCTGGN--	
MA0402.1_SWI5	4.3852e-03	GAGGCTGGAGA --TGCTGGTN-	
MA0079.2_SP1	4.7052e-03	TCTCCAGCCTC- --CCCCNCCCC	
MA0130.1_ZNF354C	5.0765e-03	GAGGCTGGAGA ----GTGGAk-	
MA0354.1_PDR8	6.8288e-03	-TCTCCAGCCTC ATCTCCGN----	
MA0432.1_YNR063W	7.0950e-03	GAGGCTGGAGA- ----TCGGAGAT	
MA0450.1_hkb	7.6937e-03	GAGGCTGGAGA KGGGCGTGA--	
MA0152.1_NFATC2	7.7414e-03	GAGGCTGGAGA- -----TGGAAAA	

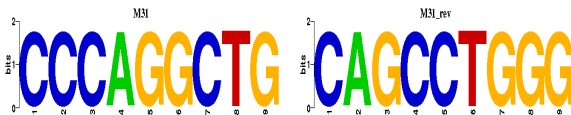
M84


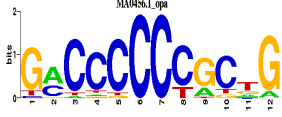


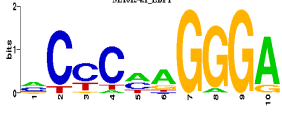
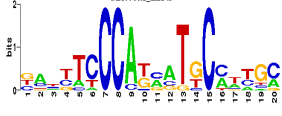
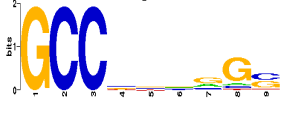
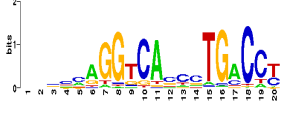
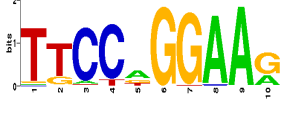
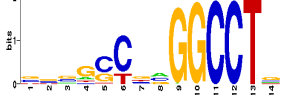




	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0081.1_SPIB	2.0345e-03	CAGCCTCT -TTCKST	
MA0285.1_CRZ1	6.8474e-03	AGAGGCTG-- -GNGGCTNNN	
MA0271.1_ARG80	7.5241e-03	CAGCCTCT --GNGTCW	
MA0366.1_RGM1	1.0276e-02	AGAGGCTG AGGGG---	
MA0342.1_MSN4	1.0580e-02	CAGCCTCT ---CCCCT	
MA0341.1_MSN2	1.7887e-02	AGAGGCTG AGGGG---	
MA0267.1_ACE2	2.0734e-02	AGAGGCTG-- ---NGCTGGN	
MA0412.1_UME6	2.7719e-02	---CAGCCTCT-- AWWTAGCCGCCSA	
MA0443.1_btd	3.3155e-02	-CAGCCTCT- YCCGCCMCN	
MA0340.1_MOT3	3.6170e-02	CAGCCTCT -TRCCTN-	

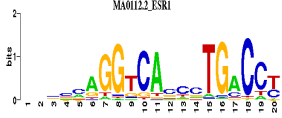
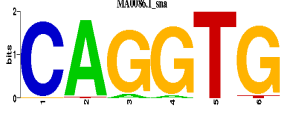

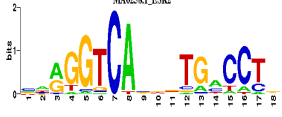

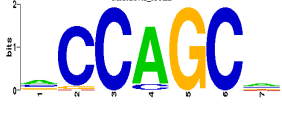




M31



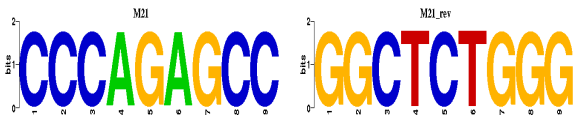
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	4.6270e-05	-CCCAGGCTG TCCCCGN--	
MA0456.1_opa	1.6178e-04	CAGCCTGGG--- CNGCGGGGGGKC	
MA0116.1_Zfp423	7.9540e-04	--CAGCCTGGG---- GNMMCCYTRGGKSC	
MA0162.1_Egr1	1.1758e-03	CAGCCTGGG--- -NGCGTGGGCGK	
MA0154.1_EBF1	2.6869e-03	CAGCCTGGG-- -TCCCTNGGGN	
MA0088.1_znf143	2.8345e-03	-----CAGCCTGGG----- KCNNKGMANNMTGGGANNNN	
MA0003.1_TFAP2A	3.1333e-03	--CCCAGGCTG SCNNNNGGC--	
MA0112.2_ESR1	3.7636e-03	--CCCAGGCTG----- RGGTCANNNTGACCTNNNNN	
MA0144.1_Stat3	4.3740e-03	CAGCCTGGG- CTTCNGGAA	
MA0146.1_Zfx	4.7261e-03	-CAGCCTGGG---- NAGGCCNNGGCNNN	




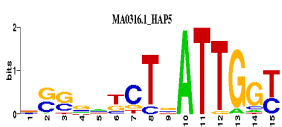

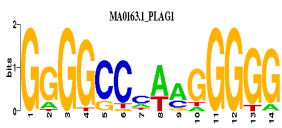
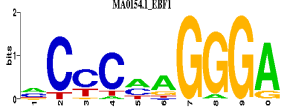

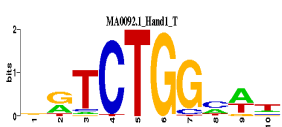
M77



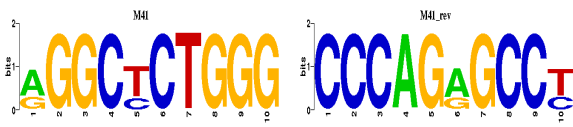
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0112.2_ESR1	7.9587e-05	----CAGGCTG----- RGGTCANNNTGACCTNNNNN	
MA0086.1_sna	3.4527e-03	CAGCCTG -CACCTG	
MA0340.1_MOT3	5.2131e-03	CAGCCTG -TRCCTN	
MA0258.1_ESR2	5.5022e-03	----CAGCCTG----- NAGGNCANNNTGACCYN	
MA0364.1_REI1	1.0481e-02	-CAGGCTG NCAGGGG-	
MA0267.1_ACE2	1.0684e-02	CAGGCTG-- --NGCTGGN	
MA0006.1_Arnt_Ahr	1.6938e-02	CAGCCTG -NGCGTG	
MA0402.1_SWI5	2.0287e-02	---CAGCCTG NACCAGCA--	
MA0117.1_Mafb	2.3724e-02	----CAGCCTG NNNTCAGC---	
MA0156.1_FEV	2.4956e-02	CAGGCTG- CAGGAART	

**M21**



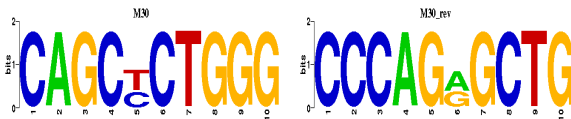
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	3.2861e-04	CCCAGAGCC -CCACAG--	
MA0451.1_kni	1.4422e-03	--CCCAGAGCC-- AAANTAGAGCAN	
MA0278.1_BAS1	1.6687e-03	-----CCCAGAGCC----- NNNNRGCCNGAGTCARNWNNN	
MA0362.1_RDS2	2.3363e-03	GGCTCTGGG --NTCGGG	
MA0316.1_HAP5	2.5247e-03	----CCCAGAGCC-- ACCAATNAGMNNSSN	
MA0003.1_TFAP2A	2.6155e-03	-CCCAGAGCC SCNNNNGGC-	
MA0163.1_PLAG1	5.4631e-03	---CCCAGAGCC-- CCCCCTTNGGCCCC	
MA0154.1_EBF1	7.3654e-03	GGCTCTGGG-- -TCCCTNNGGN	
MA0335.1_MET4	7.4877e-03	CCCAGAGCC -CCACAGNT	
MA0092.1_Hand1_T	7.6330e-03	--CCCAGAGCC NWNCCAGAYN-	

**M41**



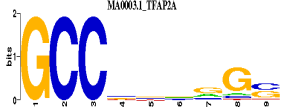

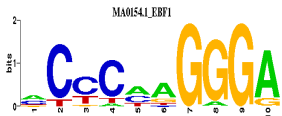
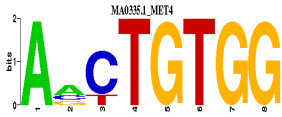


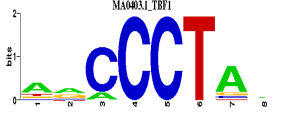
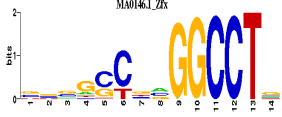
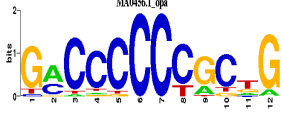

	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0163.1_PLAG1	7.2923e-04	---CCCAGAGCCT- CCCCCTTNGGCCCC	
MA0003.1_TFAP2A	8.4953e-04	-CCCAGAGCCT SCNNNNGGC--	
MA0332.1_MET28	8.6720e-04	CCCAGAGCCT -CCACAG---	
MA0451.1_kni	2.6420e-03	AGGCTCTGGG-- NTGCTCTANTTT	
MA0154.1_EBF1	3.0030e-03	AGGCTCTGGG-- --TCCCTNGGGN	
MA0362.1_RDS2	5.4854e-03	AGGCTCTGGG ---NTCGGGG	
MA0278.1_BAS1	8.2179e-03	-----AGGCTCTGGG----- NNNWNNTGACTCNGGCYNNNN	
MA0316.1_HAP5	1.0075e-02	----CCCAGAGCCT- ACCAATNAGMNSSSN	
MA0335.1_MET4	1.6851e-02	CCCAGAGCCT -CCACAGNT-	
MA0092.1_Hand1_T	1.9265e-02	--CCCAGAGCCT NWNCCAGAYN--	

M30

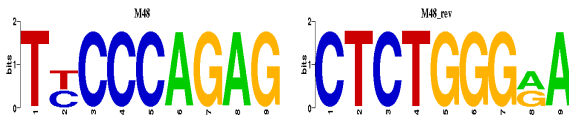


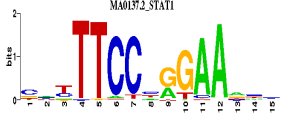

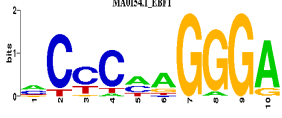

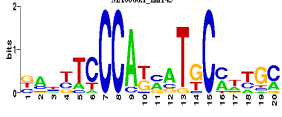




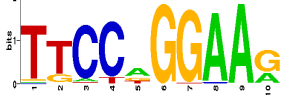
*forward*

*reverse compliment*

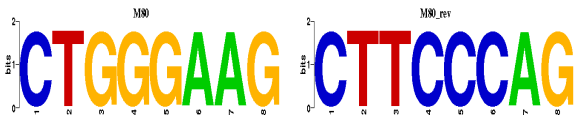
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0003.1_TFAP2A	1.2648e-04	-CCCAGRGCTG SCNNNNGGC--	
MA0116.1_Zfp423	2.6978e-04	-CAGCYCTGGG---- GNMMCCYTRGGKSC	
MA0154.1_EBF1	5.9531e-04	CAGCYCTGGG-- --TCCCTNGGGN	
MA0335.1_MET4	7.1617e-04	CCCAGRGCTG -CCACAGNT-	
MA0332.1_MET28	2.8652e-03	CCCAGRGCTG -CCACAG---	
MA0451.1_kni	3.3279e-03	CAGCYCTGGG-- NIGCTCTANTTT	
MA0403.1_TBF1	6.4543e-03	CCCAGRGCTG -NTAGGGYT-	
MA0146.1_Zfx	8.2435e-03	CAGCYCTGGG---- NAGGCCNNGGCNNN	
MA0456.1_opa	8.5816e-03	CAGCYCTGGG-- CNGCGGGGGGKC	
MA0364.1_REI1	8.5827e-03	CCCAGRGCTG -NCAGGG--	

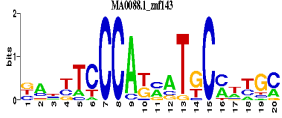

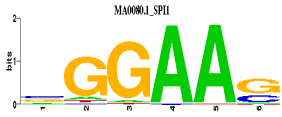
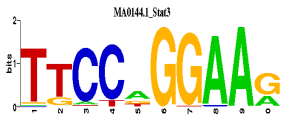
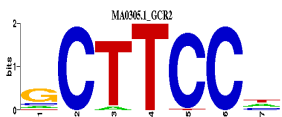





**M48**



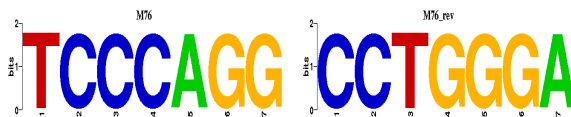
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0137.2_STAT1	1.6396e-04	---TYCCCAGAG--- NNYTTCNNGGAANN	
MA0332.1_MET28	3.2861e-04	TYCCCAGAG ---CCACAG	
MA0154.1_EBF1	4.0992e-04	-CTCTGGGRA TCCCTNGGGN	
MA0344.1_NHP10	5.5384e-04	TYCCCAGAG TCCCCGGN-	
MA0088.1_znf143	6.3592e-04	-----CTCTGGGRA--- KCNNKGMANNMTGGGANNNN	
MA0056.1_MZF1_1-4	7.0723e-04	TYCCCAGAG TCCCN---	
MA0282.1_CEP3	1.1698e-03	CTCTGGGRA- --YTCCGAAN	
MA0085.1_Su_H_	1.2974e-03	-----TYCCCAGAG NNNNNGKTTCCCACRN	
MA0436.1_YPR022C	1.8314e-03	CTCTGGGRA -NGTGGGG-	
MA0144.1_Stat3	2.0904e-03	-TYCCCAGAG CTTCCNGGAA	

M80



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0088.1_znf143	3.9167e-05	-----CTGGAAG-- KCNNKGMANNMTGGGANNNN	
MA0282.1_CEP3	4.1229e-05	CTGGAAG YTCGAAN	
MA0080.1_SPI1	4.2939e-05	CTTCCAG STCCN--	
MA0144.1_Stat3	1.1438e-04	CTTCCAG-- CTTCNGGAA	
MA0305.1_GCR2	1.6884e-04	-CTTCCAG GCTTCN--	
MA0080.2_SPI1	1.8260e-04	-CTTCCAG ACTTCCT--	
MA0085.1_Su_H_	2.7348e-04	-----CTTCCAG-- NNNNNGKTTCCACRN	
MA0026.1_Eip74EF	3.0129e-04	CTTCCAG YTCCGG-	
MA0137.2_STAT1	5.3695e-04	--CTTCCAG----- NNYTTCNGGAANN	
MA0304.1_GCR1	6.5017e-04	--CTTCCAG GGCTTCCA--	

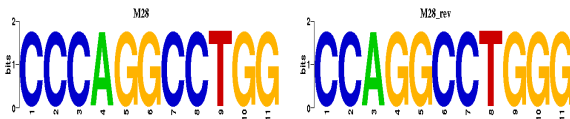
M76





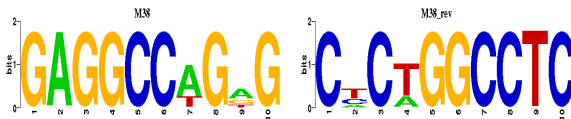
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	2.1639e-06	TCCCAGG- TCCCCGGN	
MA0144.1_Stat3	5.3212e-05	---CCTGGGA CTTCCNGGAA	
MA0154.1_EBF1	1.6543e-04	--CCTGGGA- TCCCTNGGGN	
MA0116.1_Zfp423	8.9340e-04	-----CCTGGGA---- GNMMCCYTRGGKKSC	
MA0358.1_PUT3	1.0574e-03	-CCTGGGA- C-CCGGGNN	
MA0088.1_znf143	1.5394e-03	-----CCTGGGA----- KCNNKGMANNMTGGGANNNN	
MA0282.1_CEP3	2.7548e-03	CCTGGGA-- -YTCGGAAN	
MA0086.1_sna	3.4527e-03	--CCTGGGA CACCTG---	
MA0056.1_MZF1_1-4	3.5942e-03	TCCCAGG TCCCN-	
MA0353.1_PDR3	5.2117e-03	-CCTGGGA TCCGCGGA	

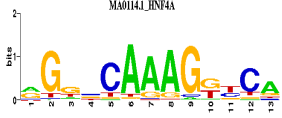
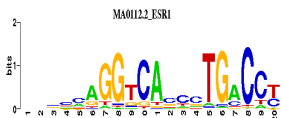
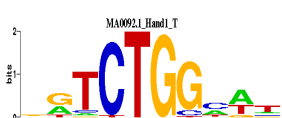




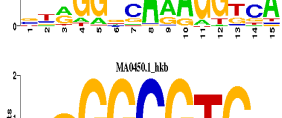
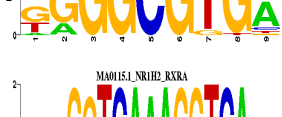

M28



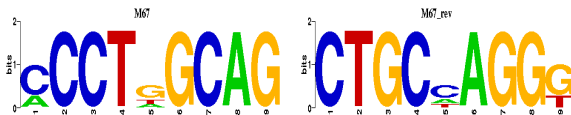
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0146.1_Zfx	4.7836e-06	CCAGGCCTGGG---- -NAGGCCNNGGCNNN	
MA0344.1_NHP10	1.9410e-04	-CCCAGGCCTGG TCCCCGN-----	
MA0106.1_TP53	2.5271e-04	-----CCCAGGCCTGG----- ACATGCCCGGGCATGTCCNN	
MA0162.1_Egr1	6.4520e-03	CCAGGCCTGGG--- ---NGCGTGGGCGK	
MA0003.1_TFAP2A	8.6302e-03	-CCCAGGCCTGG SCNNNNGGC---	
MA0276.1_ASH1	9.4323e-03	CCCAGGCCTGG -CCYGATNYGG	
MA0154.1_EBF1	1.0549e-02	CCAGGCCTGGG-- ---TCCCTNGGGN	
MA0358.1_PUT3	1.6105e-02	AGGCCTGGG-- ---CCCGGGNN	
MA0116.1_Zfp423	1.7238e-02	CCAGGCCTGGG---- GNMMCCYTRGGKSC	
MA0086.1_sna	1.9814e-02	CCCAGGCCTGG ----CACCTG-	

M38



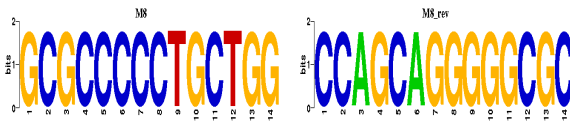
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0114.1_HNF4A	9.7235e-04	----CNCTGGCCTC TGNMCTTTGNNCY-	
MA0112.2_ESR1	1.1663e-03	GAGGCCAGNG----- -RGGTCANNNTGACCTNNNNN	
MA0092.1_Hand1_T	1.3430e-03	GAGGCCAGNG- -NWNCCAGAYN	
MA0065.1_PPARG_RXRA	1.3833e-03	---GAGGCCAGNG----- NNNGRGGTCAAAGGTCANNN	
MA0381.1_SKN7	1.5714e-03	CNCTGGCCTC --NYGGCC--	
MA0332.1_MET28	1.7545e-03	GAGGCCAGNG ----CCACAG	
MA0065.2_PPARG_RXRA	2.1155e-03	----CNCTGGCCTC- TGMCTTTGNCCYNN	
MA0450.1_hkb	2.5068e-03	CNCTGGCCTC -TCACGCCCM	
MA0115.1_NR1H2_RXRA	3.5444e-03	-----CNCTGGCCTC- STTGACCTTTGACCTTT	
MA0018.2_CREB1	4.4847e-03	CNCTGGCCTC- ---TGACGTCA	

**M67**



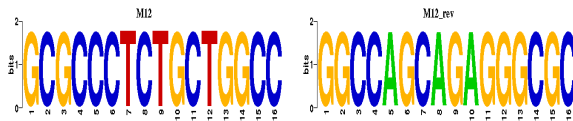
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0155.1_INSM1	8.2581e-07	----CCCTKGCAG YGCCCCCTGRCA-	
MA0344.1_NHP10	1.1054e-04	-CCCTKGCAG TCCCCGN--	
MA0144.1_Stat3	2.4560e-04	--CCCTKGCAG CTTCCNGGAA-	
MA0207.1_achi	5.7510e-04	CCCTKGCAG --CTGTCA-	
MA0106.1_TP53	6.6882e-04	--CTGCMAGGG----- ACATGCCCGGGCATGTCCNN	
MA0154.1_EBF1	6.9677e-04	-CCCTKGCAG TCCCTNGGGN	
MA0092.1_Hand1_T	7.1878e-04	-CCCTKGCAG NRTCTGGNWN	
MA0364.1_REI1	7.2394e-04	CTGCMAGGG- ---NCAGGGG	
MA0227.1_hth	1.1829e-03	CCCTKGCAG --CTGTCA-	
MA0368.1_RIM101	2.9803e-03	CCCTKGCAG -CTTGCR-	

M8



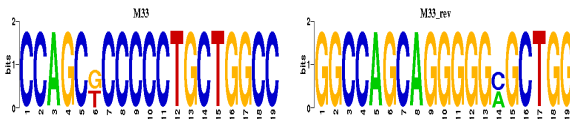
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0139.1_CTCF	0.0000e+00	---CCAGCAGGGGGCGC-- YNNCCASYAGGKGGCRSNN	
MA0456.1_opa	6.2888e-09	CCAGCAGGGGGCGC -CNGCGGGGGGKC-	
MA0155.1_INSM1	1.4498e-07	GCGCCCCCTGCTGG -YGCCCCCTGRCA-	
MA0364.1_REI1	7.8045e-06	CCAGCAGGGGGCGC ---NCAGGGG----	
MA0366.1_RGM1	2.2577e-05	GCGCCCCCTGCTGG ----CCCT-----	
MA0342.1_MSN4	2.3691e-05	CCAGCAGGGGGCGC -----AGGGG----	
MA0290.1_DAL81	3.2438e-05	----GCGCCCCCTGCTGG- AATCCCGCCCCGCGCTTTT	
MA0373.1_RPN4	4.4500e-05	GCGCCCCCTGCTGG -CGCCACC-----	
MA0443.1_btd	5.4442e-05	-GCGCCCCCTGCTGG YCCGCCMCN-----	
MA0341.1_MSN2	5.7130e-05	CCAGCAGGGGGCGC -----AGGGG----	

**M12**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0139.1_CTCF	1.3799e-12	--GCGCCCTCTGCTGGCC-- NNSYGCCMCCTRSTGGNNR	
MA0456.1_opa	5.6414e-05	GGCCAGCAGAGGGCGC ---CNGCGGGGGKC---	
MA0402.1_SWI5	2.0218e-04	GCGCCCTCTGCTGGCC -----TGCTGNTN	
MA0290.1_DAL81	2.5438e-04	----GCGCCCTCTGCTGGCC AATCCCGCCCGCGGCTTTT-	
MA0155.1_INSM1	5.1271e-04	GCGCCCTCTGCTGGCC -YGCCCCCTGRCA---	
MA0323.1_I XR1	1.3265e-03	GCGCCCTCTGCTGGCC-- --CMCCGCTTCCGGYTT	
MA0381.1_SKN7	1.9767e-03	GCGCCCTCTGCTGGCC -----NYGGCC	
MA0287.1_CUP2	2.7534e-03	GGCCAGCAGAGGGCGC ---CAGCARAAWG--	
MA0062.1_GABPA	2.8886e-03	GCGCCCTCTGCTGGCC -----SNCTTCCGGT-	
MA0065.2_PPARG_RXRA	2.9001e-03	GGCCAGCAGAGGGCGC NNRGGNCAAAGKCA-	

M33

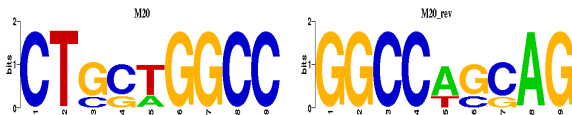


*forward*

*reverse compliment*

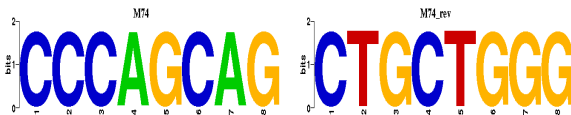
Name	E value	Alignment	Motif
MA0139.1_CTCF	1.9921e-11	-GGCCAGCAGGGGGMGCTGG YNNCCASYAGGKGGCRSNN-	
MA0456.1_opa	7.8703e-08	GGCCAGCAGGGGGMGCTGG ---CNGCGGGGGK----	
MA0155.1_INSM1	7.9976e-06	CCAGCKCCCCCTGCTGGCC ----YGCCCCCTGRCA---	
MA0364.1_REI1	2.4285e-05	GGCCAGCAGGGGGMGCTGG -----NCAGGGG-----	
MA0079.2_SP1	3.0430e-05	GGCCAGCAGGGGGMGCTGG -----GGGGNGGGG-	
MA0366.1_RGM1	5.2311e-05	CCAGCKCCCCCTGCTGGCC -----CCCCT-----	
MA0342.1_MSN4	5.4844e-05	GGCCAGCAGGGGGMGCTGG -----AGGGG-----	
MA0341.1_MSN2	1.2992e-04	GGCCAGCAGGGGGMGCTGG -----AGGGG-----	
MA0323.1_IXR1	1.5925e-04	CCAGCKCCCCCTGCTGGCC -CMCCGTTCCGGYTT---	
MA0123.1_abi4	1.9786e-04	GGCCAGCAGGGGGMGCTGG -----NGNNGCRSCG-	

M20



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0402.1_SWI5	2.6518e-05	GGCCAGCAG NACCAGCA-	
MA0139.1_CTCF	8.9239e-04	-GGCCAGCAG----- YNNCCASYAGGKGGCRSNN	
MA0055.1_Myf	1.0421e-03	GGCCAGCAG----- ---CAGCAGYTGCYK	
MA0373.1_RPN4	1.2163e-03	GGCCAGCAG CGCCACC--	
MA0381.1_SKN7	1.2511e-03	CTGCTGGCC ---NYGGCC	
MA0267.1_ACE2	1.4177e-03	CTGCTGGCC -NGCTGGN-	
MA0287.1_CUP2	8.9639e-03	-----CTGCTGGCC CWITTTYTGCTG---	
MA0304.1_GCR1	1.1019e-02	GGCCAGCAG GGCTTCCA-	
MA0213.1_brk	1.1735e-02	--GGCCAGCAG RGCGCCRS---	
MA0138.1_REST	1.2731e-02	-----GGCCAGCAG TCAGCACCWNGGACAGCNC	

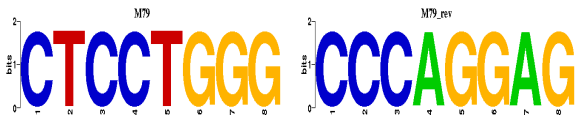
M74





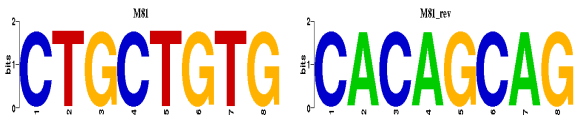
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0402.1_SWI5	1.0987e-06	-CCCAGCAG NACCAGCA-	
MA0267.1_ACE2	1.7345e-04	CTGCTGGG -NGCTGGN	
MA0139.1_CTCF	2.2889e-04	--CCCAGCAG----- YNNCCASYAGGKGGCRSNN	
MA0150.1_NFE2L2	5.8831e-04	----CCCAGCAG RTGACWNAGCA-	
MA0055.1_Myf	8.7668e-04	-----CTGCTGGG MRGCARCTGCTG--	
MA0287.1_CUP2	8.8292e-04	CCCAGCAG----- --CAGCARAAAWG	
MA0088.1_znf143	8.9681e-04	-----CTGCTGGG----- KCNNKGMANNMTGGGANNNN	
MA0048.1_NHLH1	1.3735e-03	-CCCAGCAG--- NCGCAGCTGCGN	
MA0456.1_opa	2.4571e-03	----CCCAGCAG GMCCCCCGCNG	
MA0454.1_odd	3.0343e-03	---CTGCTGGG NTGCTACTGTN	

M79



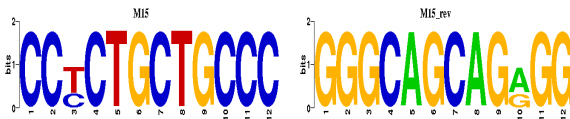
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0144.1_Stat3	2.4818e-05	-CTCCTGGG- CTTCNNGGAA	
MA0086.1_sna	1.7218e-04	CTCCTGGG CACCTG--	
MA0156.1_FEV	8.1991e-04	--CTCCTGGG AYTTCCTG--	
MA0154.1_EBF1	8.4846e-04	CTCCTGGG-- TCCCTNGGGN	
MA0364.1_REI1	1.2021e-03	CCCAGGAG -NCAGGGG	
MA0116.1_Zfp423	1.3835e-03	---CTCCTGGG--- GNMMCCYTRGGKKSC	
MA0402.1_SWI5	3.0100e-03	CTCCTGGG- -TGCTGGTN	
MA0454.1_odd	3.0343e-03	---CTCCTGGG NTGCTACTGTN	
MA0344.1_NHP10	3.1086e-03	CTCCTGGG- -NCCGGGGA	
MA0358.1_PUT3	3.1219e-03	CCTGGG-- CCCGGGNN	

**M81**



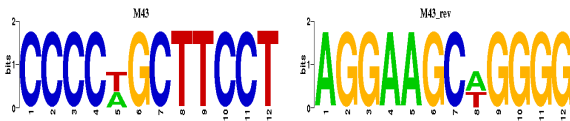
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	1.7502e-05	-CACAGCAG CCACAG---	
MA0150.1_NFE2L2	2.2019e-05	----CACAGCAG RTGACWNAGCA-	
MA0454.1_odd	9.1272e-05	---CTGCTGTG NTGCTACTGTN	
MA0335.1_MET4	7.2735e-04	-CACAGCAG CCACAGNT-	
MA0402.1_SWI5	7.5032e-04	-CACAGCAG NACCAGCA-	
MA0055.1_Myf	8.7668e-04	-----CTGCTGTG MRGCARCTGCTG--	
MA0287.1_CUP2	8.8292e-04	CACAGCAG----- --CAGCARAAAWG	
MA0048.1_NHLH1	2.0238e-03	-CACAGCAG--- NCGCAGCTGCGN	
MA0242.1_run_Bgb	4.5866e-03	CTGCTGTG- TTGCGGTTW	
MA0207.1_achi	7.2423e-03	CTGCTGTG- ---CTGTCA	



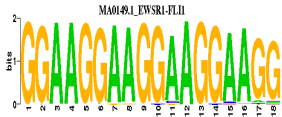







M15



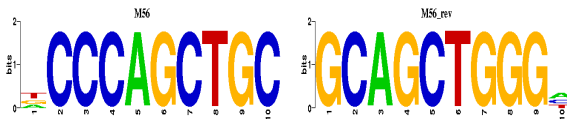
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0456.1_opa	4.3366e-05	GGGCAGCAGAGG--- ---CNGCGGGGGGKC	
MA0139.1_CTCF	9.8613e-05	-----CCTCTGCTGCCC- NNSYGCCMCTRSTGGNNR	
MA0364.1_REI1	4.4619e-04	GGGCAGCAGAGG -----NCAGGGG	
MA0055.1_Myf	1.0699e-03	GGGCAGCAGAGG MRGCARCTGCTG	
MA0287.1_CUP2	1.1396e-03	GGGCAGCAGAGG-- ---CAGCARAAWG	
MA0111.1_Spz1	1.7382e-03	CCTCTGCTGCCC- --GCTGWTACCCT	
MA0163.1_PLAG1	1.8699e-03	-CCTCTGCTGCCC- CCCCCTTNGGCCCC	
MA0123.1_abi4	1.9636e-03	--GGGCAGCAGAGG NGNNGCRSCG----	
MA0366.1_RGM1	2.1046e-03	CCTCTGCTGCCC CCCCT-----	
MA0342.1_MSN4	2.1788e-03	CCTCTGCTGCCC CCCCT-----	

**M43**



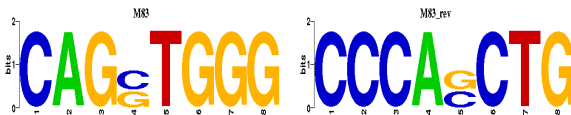
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0305.1_GCR2	4.4479e-06	CCCCWGCTTCCT -----GCTTCN	
MA0080.2_SPI1	5.0362e-06	CCCCWGCTTCCT -----ACTTCCT	
MA0149.1_EWSR1-FL11	6.6992e-06	CCCCWGCTTCCT----- -CCTTCCTTCCTTCCTTCC	
MA0323.1_IXR1	7.8313e-06	CCCCWGCTTCCT---- -CMCCGCTTCCGGYTT	
MA0364.1_REI1	3.2625e-05	AGGAAGCWGGGG -----NCAGGGG	
MA0304.1_GCR1	4.8240e-05	CCCCWGCTTCCT ----GGCTTCCA	
MA0366.1_RGM1	1.3664e-04	CCCCWGCTTCCT CCCCT-----	
MA0055.1_Myf	1.7528e-04	CCCCWGCTTCCT CAGCAGYTGCYK	
MA0342.1_MSN4	2.1702e-04	CCCCWGCTTCCT CCCCT-----	
MA0080.1_SPI1	3.5037e-04	CCCCWGCTTCCT -----STTCN	



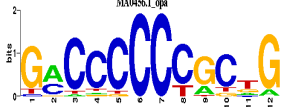







**M56**



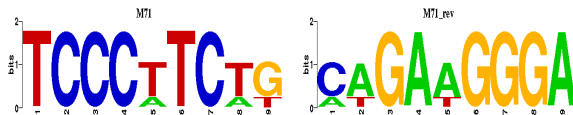
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0048.1_NHLH1	5.7398e-08	NCCCAGCTGC-- NCGCAGCTGCGN	
MA0055.1_Myf	2.4733e-05	--GCAGCTGGGN MRGCARCTGCTG	
MA0456.1_opa	1.1716e-04	GCAGCTGGGN--- -CNGCGGGGGK	
MA0086.1_sna	6.2415e-04	NCCCAGCTGC ---CACCTG-	
MA0267.1_ACE2	6.9099e-04	GCAGCTGGGN --NGCTGGN-	
MA0402.1_SWI5	2.2346e-03	NCCCAGCTGC NACCAGCA--	
MA0091.1_TAL1_TCF3	4.6621e-03	-NCCCAGCTGC- NNAMCATCTGKT	
MA0147.1_Myc	7.4546e-03	NCCCAGCTGC- -NCCACGTGSN	
MA0338.1_MIG2	9.2422e-03	GCAGCTGGGN --NGYGGGG-	
MA0323.1_IXR1	1.0790e-02	NCCCAGCTGC----- -CMCCGCTTCCGGYTT	

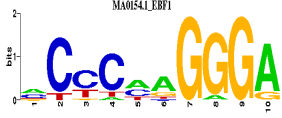



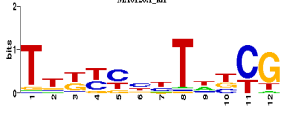

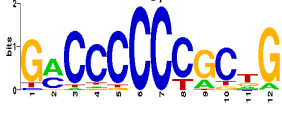

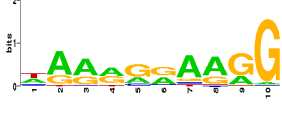

M83



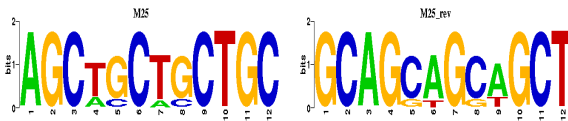
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0086.1_sna	5.6197e-07	CCCASCTG --CACCTG	
MA0048.1_NHLH1	3.6900e-06	-CCCASCTG--- NCGCAGCTGCGN	
MA0456.1_opa	5.3183e-05	CAGSTGGG---- CNGCGGGGGGKC	
MA0103.1_ZEB1	5.1081e-04	CAGSTGGG NAGGTG--	
MA0055.1_Myf	6.2133e-04	-CCCASCTG--- CAGCAGYTGCYK	
MA0128.1_EmBP-1	7.3318e-04	CCCASCTG- -CCACGTST	
MA0267.1_ACE2	1.0509e-03	CAGSTGGG -NGCTGGN	
MA0104.2_Mycn	2.0338e-03	CCCASCTG-- GCCACGTGSN	
MA0091.1_TAL1_TCF3	2.1836e-03	--CCCASCTG-- NNAMCATCTGKT	
MA0147.1_Myc	2.1968e-03	CCCASCTG-- NCCACGTGSN	

**M71**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0154.1_EBF1	6.6789e-04	TCCCTTCTG- TCCCTNGGGN	
MA0366.1_RGM1	3.6515e-03	CAGAAGGGA ----AGGGG	
MA0091.1_TAL1_TCF3	3.8316e-03	-TCCCTTCTG-- NNAMCATCTGKT	
MA0342.1_MS4	4.6024e-03	TCCCTTCTG CCCCT----	
MA0120.1_id1	6.0288e-03	CAGAAGGGA--- CGNNANNRRMNA	
MA0149.1_EWSR1-FLI1	7.0773e-03	-----TCCCTTCTG CCTTCCTTCCTTCCTTCC-	
MA0456.1_opa	7.3220e-03	CAGAAGGGA--- CNGCGGGGGGKC	
MA0026.1_Eip74EF	7.5353e-03	-CAGAAGGGA CCGGAAR---	
MA0039.1_Klf4	1.0465e-02	TCCCTTCTG-- -CCTYYYYTTN	
MA0056.1_MZF1_1-4	1.0806e-02	TCCCTTCTG TCCCN---	

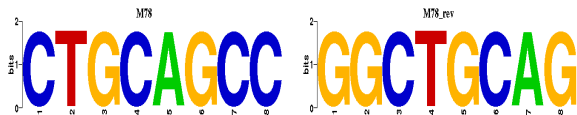
M25





	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0055.1_Myf	4.4183e-11	-AGCTGCTGCTGC CAGCAGYTGCYK-	
MA0454.1_odd	3.0344e-05	AGCTGCTGCTGC- --NTGCTACTGTN	
MA0048.1_NHLH1	7.3504e-05	-AGCTGCTGCTGC NCGCAGCTGCGN-	
MA0402.1_SWI5	1.0586e-03	GCAGCAGCAGCT -NACCAGCA---	
MA0138.1_REST	4.8234e-03	GCAGCAGCAGCT----- TCAGCACCWNGGACAGCNC	
MA0287.1_CUP2	5.5008e-03	AGCTGCTGCTGC CWTTTTYTGCTG-	
MA0138.2_REST	7.3722e-03	-----AGCTGCTGCTGC- GNNGCTGTCCNNGGTGCTGAN	
MA0456.1_opa	2.6062e-02	-AGCTGCTGCTGC GMCCCCCGCNG-	
MA0111.1_Spz1	4.9403e-02	---GCAGCAGCAGCT AGGGTAWCAGC----	
MA0126.1_ovo	4.9467e-02	GCAGCAGCAGCT --WGTAACNGN-	

M78



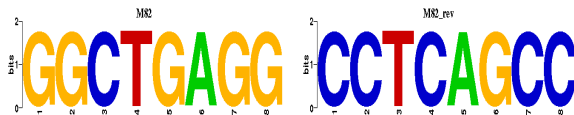
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0055.1_Myf	3.8103e-04	CTGCAGCC---- CAGCAGYTGCYK	
MA0385.1_SOK2	8.1510e-04	GGCTGCAG--- NNMTGCAKNNN	
MA0269.1_AFT1	2.6876e-03	-----GGCTGCAG----- NNNNNNGGGTGCAMTANNNNN	
MA0260.1_che-1	3.5833e-03	GGCTGCAG GGYTTC--	
MA0410.1_UGA3	3.8568e-03	CTGCAGCC- -TCCCGCCN	
MA0304.1_GCR1	5.1298e-03	CTGCAGCC TGGAAGCC	
MA0213.1_brk	6.5010e-03	CTGCAGCC SYGGCGCY	
MA0048.1_NHLH1	6.6315e-03	----GGCTGCAG NCGCAGCTGCGN	
MA0394.1_STP1	1.9325e-02	-GGCTGCAG NMGCCGCR-	
MA0267.1_ACE2	2.0734e-02	GGCTGCAG NGCTGGN-	

**M62**



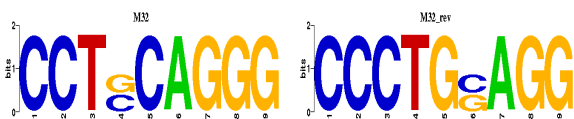
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0150.1_NFE2L2	2.5268e-04	--TCCTSAGCAG RTGACWNAGCA--	
MA0081.1_SPIB	7.5141e-04	-TCCTSAGCAG TTCKST----	
MA0326.1_MAC1	8.7520e-04	-CTGCTSAGGA TTTGCTCR---	
MA0332.1_MET28	3.0640e-03	TCCTSAGCAG -CCACAG---	
MA0344.1_NHP10	3.0896e-03	CTGCTSAGGA --NCCGGGGA	
MA0320.1_IME1	6.3817e-03	CTGCTSAGGA CCGCCGAG--	
MA0276.1_ASH1	1.1063e-02	TCCTSAGCAG-- -CCRNATCRGG	
MA0402.1_SWI5	1.2236e-02	TCCTSAGCAG -NACCAGCA--	
MA0117.1_Mafb	1.7911e-02	CTGCTSAGGA --GCTGANN	
MA0138.1_REST	2.1098e-02	TCCTSAGCAG----- ---TCAGCACCWNGGACAGCNC	

M82



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0283.1_CHA4	3.2748e-05	CCTCAGCC NCTCCGCC	
MA0150.1_NFE2L2	1.0510e-04	GGCTGAGG--- TGCTNWTGTCAY	
MA0332.1_MET28	1.6557e-04	CCTCAGCC CCACAG--	
MA0065.2_PPARG_RXRA	6.0908e-04	----GGCTGAGG--- NNRGGNCAAAGGKCA	
MA0117.1_MafB	8.0685e-04	-CCTCAGCC NNNTCAGC-	
MA0335.1_MET4	3.6086e-03	CCTCAGCC CCACAGNT	
MA0320.1_IME1	4.7059e-03	CCTCAGCC- -CTCGGCGG	
MA0146.1_Zfx	6.7985e-03	--GGCTGAGG---- NNNGCCNNGGCTN	
MA0096.1_bZIP910	8.4184e-03	-CCTCAGCC ACGTCAK--	
MA0039.2_Klf4	8.8218e-03	-CCTCAGCC- GCCMCRCCTN	

M32

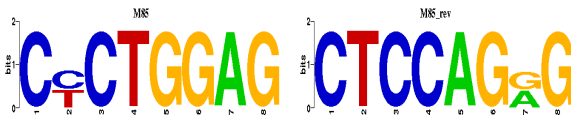


*forward*

*reverse compliment*

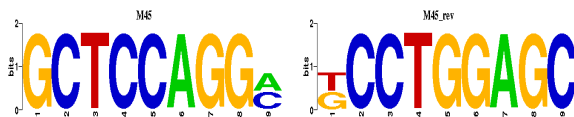
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0139.1_CTCF	8.5938e-06	-----CCCTGSAGG--- NNSYGCCMCCTRSTGGNNR	
MA0154.1_EBF1	1.7831e-04	CCTSCAGGG- NCCCNAGGGA	
MA0364.1_REI1	3.8715e-04	CCTSCAGGG- ---NCAGGGG	
MA0144.1_Stat3	1.6884e-03	--CCCTGSAGG CTTCCNGGAA-	
MA0366.1_RGM1	2.9116e-03	CCTSCAGGG- -----AGGGG	
MA0342.1_MSN4	3.2069e-03	-CCCTGSAGG CCCCT-----	
MA0116.1_Zfp423	4.4497e-03	----CCCTGSAGG-- GNMMCCYTRGGKKSC	
MA0456.1_opa	5.5968e-03	CCTSCAGGG---- -CNGCGGGGGGK	
MA0341.1_MSN2	5.8483e-03	CCTSCAGGG- -----AGGGG	
MA0440.1_ZAP1	6.3334e-03	----CCCTGSAGG- CATNACCTTKARGGT	

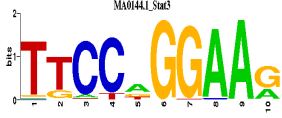
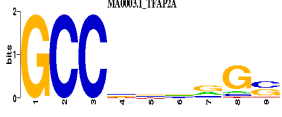



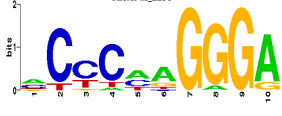
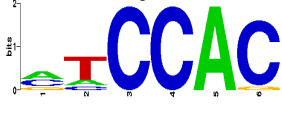
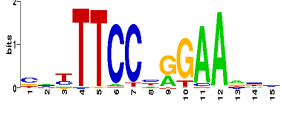

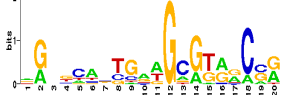
M85



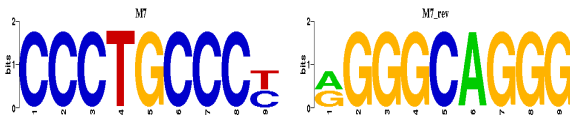
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0154.1_EBF1	6.6483e-06	-CYCTGGAG- TCCTNNGGN	
MA0139.1_CTCF	2.2178e-04	-----CYCTGGAG----- NNSYGCCMCCRSTGNNR	
MA0144.1_Stat3	2.5264e-04	--CYCTGGAG CTTCCNGGAA	
MA0130.1_ZNF354C	8.7226e-04	CYCTGGAG --GTGGAK	
MA0247.1_tin	1.0603e-03	CYCTGGAG CACTTGAR	
MA0364.1_REI1	1.2628e-03	CTCCAGRG- --NCAGGGG	
MA0332.1_MET28	2.5813e-03	CYCTGGAG CTGTGG--	
MA0380.1_SIP4	5.9436e-03	CTCCAGRG -YCCGGAN	
MA0138.1_REST	6.2279e-03	-----CYCTGGAG----- TCAGCACCWNGGACAGCNC	
MA0370.1_RME1	7.0588e-03	---CYCTGGAG TNCCTTTNNA-	

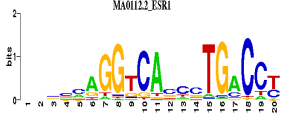
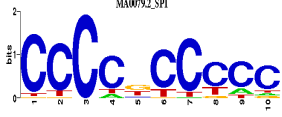
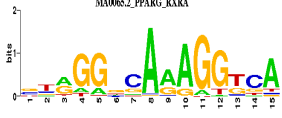
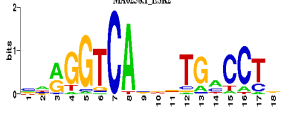
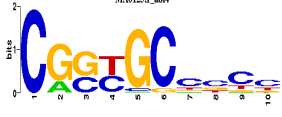

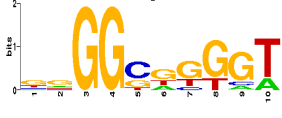


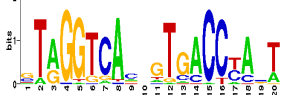
M45



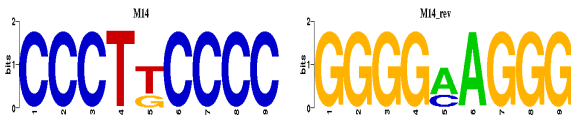
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0144.1_Stat3	4.1410e-06	--KCCTGGAGC CTTCNNGGAA--	
MA0003.1_TFAP2A	4.9106e-04	GCTCCAGGM SCN>NNNGGC	
MA0323.1_IXR1	5.6441e-04	----GCTCCAGGM-- CMCCGCTTCCGGYTT	
MA0213.1_brk	7.9660e-04	-GCTCCAGGM RGCGCCRS--	
MA0451.1_kni	9.9478e-04	--GCTCCAGGM- NTGCTCTANTTT	
MA0154.1_EBF1	1.4235e-03	-KCCTGGAGC TCCCTNNGGN	
MA0130.1_ZNF354C	1.5817e-03	KCCTGGAGC --GTGGAK--	
MA0137.2_STAT1	2.0245e-03	--GCTCCAGGM---- NNNTTCCNNGGAARNN	
MA0086.1_sna	1.0436e-02	-KCCTGGAGC CACCTG----	
MA0014.1_Pax5	1.0741e-02	----KCCTGGAGC----- NGNNNNNYGNWCGKRRCRSR	

M7



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0112.2_ESR1	6.2706e-08	RGGGCAGGG----- RGGTCANNNTGACCTNNNNN	
MA0079.2_SP1	2.0097e-07	-RGGGCAGGG GGGGGNGGGG	
MA0065.2_PPARG_RXRA	6.4012e-06	--RGGGCAGGG---- NNRGGNCAAAGGKCA	
MA0258.1_ESR2	7.6157e-06	--RGGGCAGGG----- NNRGGTCANNNTGNCCTN	
MA0123.1_abi4	3.2192e-05	CCCTGCCCY- CGSYGCNNCN	
MA0039.2_Klf4	2.1363e-04	-CCCTGCCCY GCCMCRCNN	
MA0079.1_SP1	2.2123e-04	-CCCTGCCCY ACCCNGCCNN	
MA0364.1_REI1	3.8715e-04	RGGGCAGGG- ---NCAGGGG	
MA0112.1_ESR1	3.9525e-04	-----CCCTGCCCY- NNAGGTCACNNTGRCCNN	
MA0066.1_PPARG	7.3076e-04	-----CCCTGCCCY-- ANTRGGTCACNNTGACCTAN	

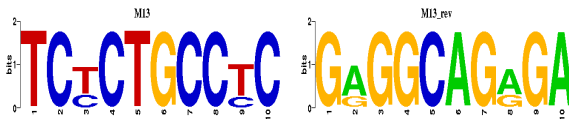
M14





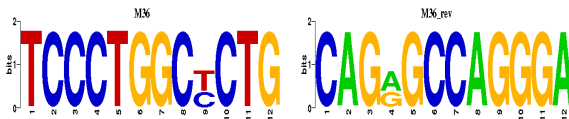
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0079.2_SP1	3.0803e-09	-GGGGAAGGG GGGGGNGGGG	
MA0065.2_PPARG_RXRA	9.5705e-05	---GGGGAAGGG--- NNRGGNCAAAGGKCA	
MA0056.1_MZF1_1-4	1.0693e-04	CCCTTCCCC- ----TCCCN	
MA0039.1_Klf4	1.2446e-04	CCCTTCCCC-- -CCTYYYTTN	
MA0080.1_SPI1	1.7926e-04	CCCTTCCCC --STCCN-	
MA0305.1_GCR2	7.1440e-04	GGGGAAGGG -NGGAAGC-	
MA0080.2_SPI1	7.6596e-04	CCCTTCCCC -ACTTCCT-	
MA0112.2_ESR1	8.1643e-04	GGGGAAGGG----- RGGTCANNNTGACCTNNNNN	
MA0123.1_abi4	9.6656e-04	-GGGGAAGGG NGNNGCRSCG	
MA0105.1_NFKB1	1.0528e-03	GGGGAAGGG-- GGGGAATCCCC	


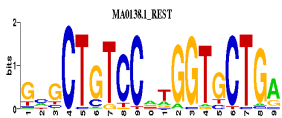
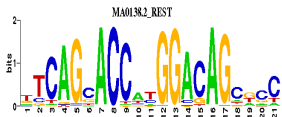



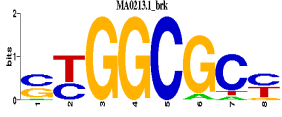
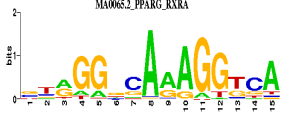
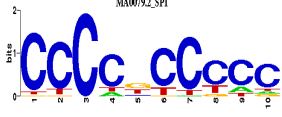

**M13**



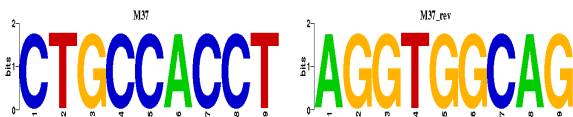
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.2_PPARG_RXRA	1.3765e-04	---TCTCTGCCTC-- TGMCCTTTGNCYNN	
MA0283.1_CHA4	1.4981e-04	TCTCTGCCTC NCTCCGCC--	
MA0140.1_Tal1_Gata1	2.0546e-04	--TCTCTGCCTC----- NTTATCTNNNNNNNNCNN	
MA0079.2_SPI1	2.3263e-04	TCTCTGCCTC- -CCCNCCCC	
MA0340.1_MOT3	1.2915e-03	GAGGCAGAGA NAGGYA----	
MA0443.1_btd	1.9347e-03	TCTCTGCCTC-- --YCCGCCMCN	
MA0123.1_abi4	3.5512e-03	-GAGGCAGAGA NGNNGCRSCG-	
MA0080.2_SPI1	4.2147e-03	TCTCTGCCTC --ACTTCCT-	
MA0099.2_AP1	6.5149e-03	-GAGGCAGAGA TGAGTCA----	
MA0062.1_GABPA	7.7471e-03	TCTCTGCCTC- -SNCTCCGGT	

M36



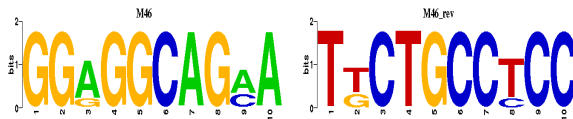
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0344.1_NHP10	7.1944e-07	TCCCTGGCYCTG TCCCCGN----	
MA0138.1_REST	4.9078e-05	-----TCCCTGGCYCTG- GNGCTGTCCNWGGTGCTGA	
MA0138.2_REST	1.8774e-04	--CAGRGCCAGGGA----- NTCAGCACCNNGGACAGCNNC	
MA0154.1_EBF1	2.0721e-04	TCCCTGGCYCTG TCCCTNGGGN--	
MA0364.1_REI1	1.5812e-03	CAGRGCCAGGGA -----NCAGGGG	
MA0371.1_ROX1	2.1690e-03	CAGRGCCAGGGA GAGAACAATNGR	
MA0213.1_brk	2.3534e-03	CAGRGCCAGGGA -RGCGCCRS---	
MA0065.2_PPARG_RXRA	2.8581e-03	--TCCCTGGCYCTG- TGMCCTTTGNCCYNN	
MA0079.2_SP1	3.7332e-03	CAGRGCCAGGGA -GGGGGNGGGG-	
MA0155.1_INSM1	4.6217e-03	---TCCCTGGCYCTG YGCCCCCTGRCA---	

M37



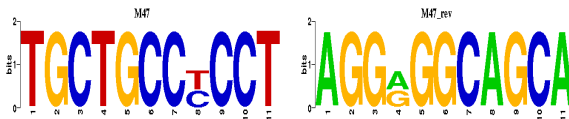
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0373.1_RPN4	8.2821e-07	AGGTGGCAG -GGTGGCG-	
MA0139.1_CTCF	3.6930e-05	--CTGCCACCT----- NNSYGCCMCTRSTGGNNR	
MA0086.1_sna	4.0503e-05	CTGCCACCT- ----CACCTG	
MA0103.1_ZEB1	4.2061e-05	-AGGTGGCAG NAGGTG----	
MA0334.1_MET32	3.8834e-04	AGGTGGCAG -TGTTGCN-	
MA0207.1_achi	3.9014e-04	CTGCCACCT CTGTCA---	
MA0155.1_INSM1	4.7744e-04	CTGCCACCT---- -YGCCCCCTGRCA	
MA0104.2_Mycn	5.0093e-04	CTGCCACCT--- --GCCACGTGSN	
MA0227.1_hth	7.9459e-04	CTGCCACCT CTGTCA---	
MA0009.1_T	1.8265e-03	--AGGTGGCAG CTAGGTGTGAA	

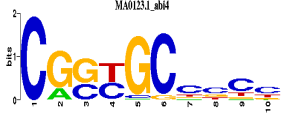



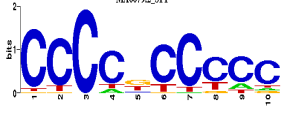


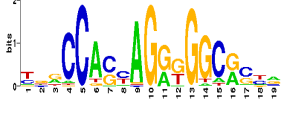
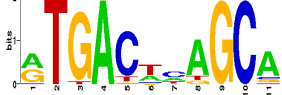
M46



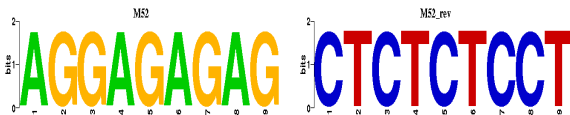
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0140.1_Tal1_Gata1	9.1941e-05	---TTCTGCCTCC----- NTTATCTNNNNNNNNNCNN	
MA0443.1_btd	8.7785e-04	TTCTGCCTCC- -YCCGCCCMCN	
MA0340.1_MOT3	1.0532e-03	GGAGGCAGAA -NAGGYA---	
MA0079.2_SP1	1.5970e-03	GGAGGCAGAA GGGGGNGGGG	
MA0080.2_SPI1	3.8353e-03	TTCTGCCTCC -ACTTCT--	
MA0305.1_GCR2	4.8092e-03	-GGAGGCAGAA NGGAAGC----	
MA0099.2_AP1	5.1726e-03	GGAGGCAGAA TGAGTCA---	
MA0373.1_RPN4	7.7794e-03	TTCTGCCTCC ---CGCCACC	
MA0123.1_abi4	1.0634e-02	GGAGGCAGAA NGNNGCRSCG	
MA0149.1_EWSR1-FLI1	1.0724e-02	---TTCTGCCTCC----- CCTTCCTTCCTTCCTTC	

M47



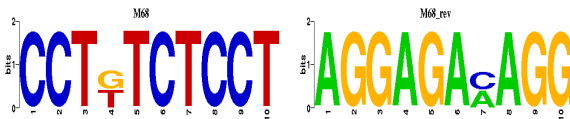
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0123.1_abi4	3.6987e-05	AGGRGGCAGCA -NGNNGCRSCG	
MA0155.1_INSM1	7.8066e-05	TGCTGCCYCCT---- ---YGCCCCCTGRCA	
MA0366.1_RGM1	2.6172e-04	TGCTGCCYCCT -----CCCCT	
MA0342.1_MSN4	2.7262e-04	TGCTGCCYCCT -----CCCCT	
MA0079.2_SP1	2.7379e-04	AGGRGGCAGCA -GGGGNGGGG	
MA0341.1_MSN2	5.7342e-04	AGGRGGCAGCA AGGGG-----	
MA0443.1_btd	7.2953e-04	AGGRGGCAGCA NGKGGGCGGR-	
MA0140.1_Tal1_Gata1	1.2525e-03	---TGCTGCCYCCT---- NTTATCTNNNNNNNNCNN	
MA0139.1_CTCF	1.3660e-03	TGCTGCCYCCT----- NNSYGCCMCCTRSTGGNNR	
MA0150.1_NFE2L2	2.0938e-03	TGCTGCCYCCT TGCTINWGTCAY	

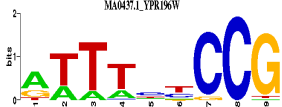

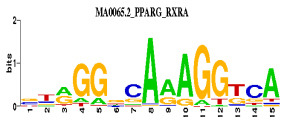


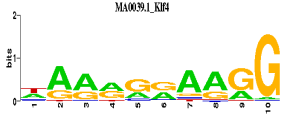

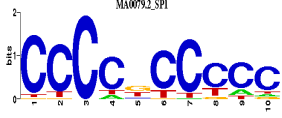


M52



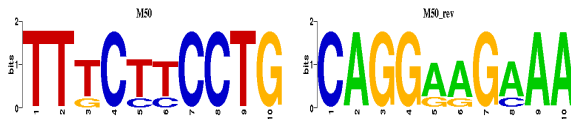
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0354.1_PDR8	1.5359e-03	CTCTCTCCT-- --ATCTCCGN	
MA0432.1_YNR063W	1.6070e-03	-AGGAGAGAG TCGGAGAT--	
MA0437.1_YPR196W	2.4426e-03	AGGAGAGAG CGGRNAAAT	
MA0422.1_YDR520C	2.6633e-03	CTCTCTCCT-- NTAWNTCCGN	
MA0009.1_T	4.0622e-03	CTCTCTCCT-- TTCACACCTAG	
MA0140.1_Tal1_Gata1	5.4697e-03	---CTCTCTCCT----- NTTATCTNNNNNNNNCNN	
MA0312.1_HAP1	8.3486e-03	CTCTCTCCT -NAWNTCCG	
MA0205.1_Trl	9.1893e-03	AGGAGAGAG- NNGAGAGNNR	
MA0439.1_YRR1	1.3504e-02	-AGGAGAGAG- NCGGANATANN	
MA0348.1_OAF1	1.4736e-02	CTCTCTCCT-- -NATCYCCGN	

**M68**




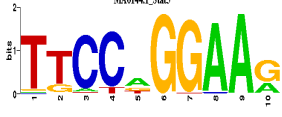
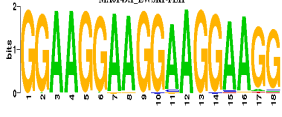



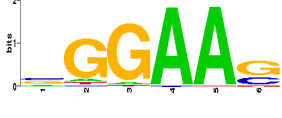



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0437.1_YPR196W	8.2689e-05	AGGAGAMAGG CGGRNAAAT-	
MA0115.1_NR1H2_RXRA	1.2853e-04	-----CCTKTCTCCT-- STTGACCTTTGACCTTT	
MA0065.2_PPARG_RXRA	6.4899e-04	---CCTKTCTCCT-- TGMCCTTTGNCCYNN	
MA0207.1_achi	8.6505e-04	CCTKTCTCCT -CTGTCA---	
MA0287.1_CUP2	9.5369e-04	-AGGAGAMAGG CAGCARAAAWG	
MA0039.1_Klf4	1.2328e-03	AGGAGAMAGG NAARRRAAGG	
MA0227.1_hth	1.5464e-03	CCTKTCTCCT -CTGTCA---	
MA0079.2_SP1	2.1540e-03	AGGAGAMAGG- -GGGGNGGGG	
MA0354.1_PDR8	2.8039e-03	CCTKTCTCCT- ---ATCTCCGN	
MA0432.1_YNR063W	2.9249e-03	-AGGAGAMAGG TCGGAGAT---	

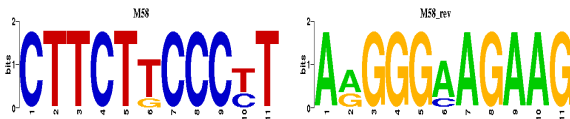
**M50**


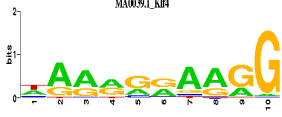
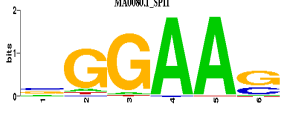

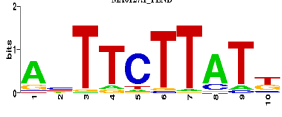
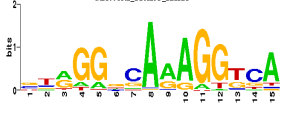


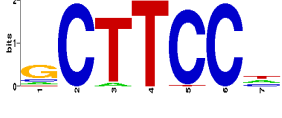





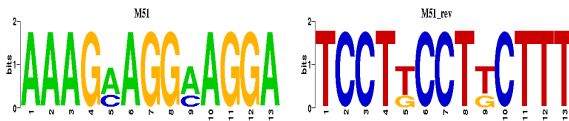
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0156.1_FEV	1.3157e-06	TTTCTTCCTG --AYTTCCTG	
MA0026.1_Eip74EF	2.4410e-06	CAGGAAGAAA CCGGAAR---	
MA0080.2_SPI1	2.5179e-06	TTTCTTCCTG --ACTTCCT-	
MA0144.1_Stat3	3.9184e-06	TTTCTTCCTG--- ---CTTCCNGGAA	
MA0149.1_EWSR1-FL11	4.1979e-06	-----TTTCTTCCTG-- CCTTCCTTCCTTCCTTCC	
MA0062.1_GABPA	1.3753e-05	-CAGGAAGAAA ACCGGAAGNS-	
MA0277.1_AZF1	1.6107e-05	TTTCTTCCTG TTTCTTTTT-	
MA0287.1_CUP2	1.3214e-04	CAGGAAGAAA- CAGCARAAAWG	
MA0080.1_SPI1	2.6209e-04	TTTCTTCCTG ---STCCN-	
MA0076.1_ELK4	9.1745e-04	TTTCTTCCTG- --ACTTCCGGT	

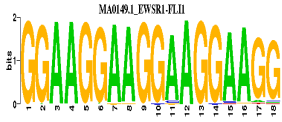

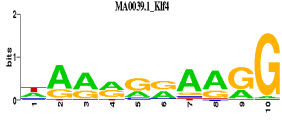



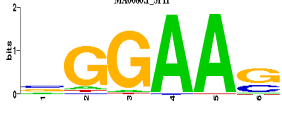


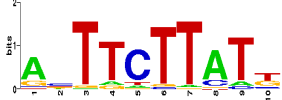
M58



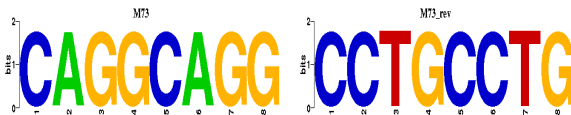
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0149.1_EWSR1-FLI1	7.6385e-07	-CTTCTTCCTT----- CCTTCCTTCCTTCCTTCC	
MA0039.1_Klf4	9.2313e-06	-AAGGGAAGAAG NAARRRAAGG--	
MA0080.1_SPI1	2.8947e-04	CTTCTTCCTT ---STTCN--	
MA0062.1_GABPA	4.1378e-04	AAGGGAAGAAG ACCGGAAGNS-	
MA0127.1_PEND	7.3674e-04	AAGGGAAGAAG- --MATAAGAANT	
MA0065.2_PPARG_RXRA	7.4807e-04	---CTTCTTCCTT- TGMCCTTTGNCCYNN	
MA0366.1_RGM1	1.2063e-03	CTTCTTCCTT -----CCCCT	
MA0342.1_MSN4	1.2510e-03	CTTCTTCCTT -----CCCCT	
MA0305.1_GCR2	1.2673e-03	AAGGGAAGAAG --NGGAAGC--	
MA0080.2_SPI1	1.3539e-03	CTTCTTCCTT --ACTTCT--	

M51



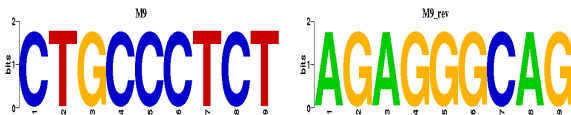
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0149.1_EWSR1-FL11	1.3323e-15	--AAAGAAGGAAGGA--- GGAAGGAAGGAAGGAAGG	
MA0080.2_SPI1	1.2814e-05	TCCTTCCTTCTTT -ACTTCCT-----	
MA0039.1_Klf4	3.6335e-05	AAAGAAGGAAGGA --NAARRRAAGG-	
MA0323.1_IXR1	1.2893e-04	---TCCTTCCTTCTTT CMCCGCTTCCGGYTT-	
MA0277.1_AZF1	3.3585e-04	AAAGAAGGAAGGA -AAAAAGAAA---	
MA0156.1_FEV	5.4870e-04	TCCTTCCTTCTTT -AYTTCCTG-----	
MA0080.1_SPI1	7.4143e-04	TCCTTCCTTCTTT --STTCN-----	
MA0026.1_Eip74EF	1.3176e-03	AAAGAAGGAAGGA ----CCGGAAR--	
MA0053.1_MNB1A	1.5731e-03	TCCTTCCTTCTTT -----NCTTT	
MA0127.1_PEND	2.5723e-03	--AAAGAAGGAAGGA MATAAGAANT-----	

M73



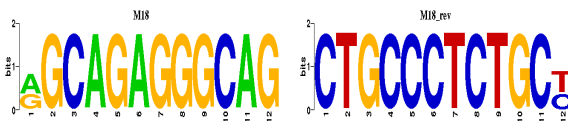
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0340.1_MOT3	3.2869e-05	CCTGCCTG --TRCCTN	
MA0144.1_Stat3	2.7419e-04	CCTGCCTG--- -CTTCCNGGAA	
MA0156.1_FEV	3.7452e-04	CCTGCCTG AYTTCCTG	
MA0026.1_Eip74EF	1.1590e-03	CCTGCCTG -YTTCCGG	
MA0149.1_EWSR1-FL11	1.1750e-03	----CCTGCCTG----- CCTTCCTTCTTCCTTCC	
MA0080.2_SPI1	1.2216e-03	CCTGCCTG ACTTCCT-	
MA0410.1_UGA3	6.2002e-03	-CCTGCCTG TCCCGCCN-	
MA0086.1_sna	6.4886e-03	--CCTGCCTG CACCTG----	
MA0079.1_SP1	6.5644e-03	--CCTGCCTG ACCCNGCCNN	
MA0290.1_DAL81	6.5738e-03	---CCTGCCTG----- AATCCCGCCCGCGGCTTTT	

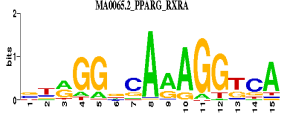
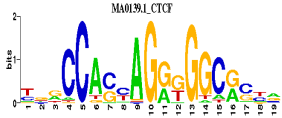

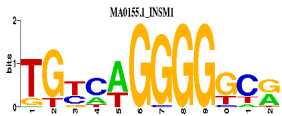
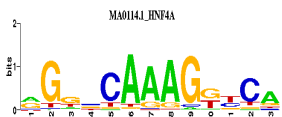

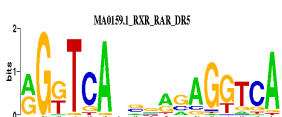



**M9**



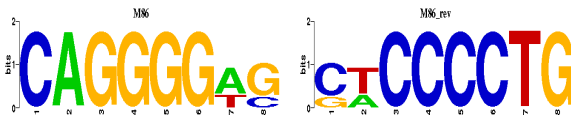
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0139.1_CTCF	6.7276e-05	-----AGAGGGCAG-- YNNCCASYAGGKGGCRSNN	
MA0159.1_RXR_RAR_DR5	1.9525e-04	-----AGAGGGCAG RGKTCANNRNAGGTCA-	
MA0065.2_PPARG_RXRA	2.3735e-04	-----AGAGGGCAG NNRGGNCAAAGGKCA-	
MA0155.1_INSM1	5.2178e-04	----AGAGGGCAG TGYCAGGGGGCR-	
MA0405.1_TEA1	2.8339e-03	AGAGGGCAG -GCGSRCWN	
MA0366.1_RGM1	2.9116e-03	AGAGGGCAG --AGGGG--	
MA0342.1_MSN4	3.2069e-03	CTGCCCTCT --CCCCT--	
MA0081.1_SPIB	3.9044e-03	CTGCCCTCT --TTCKST	
MA0443.1_btd	5.0143e-03	-CTGCCCTCT YCCGCCMCN	
MA0140.1_Tal1_Gata1	5.2834e-03	-----CTGCCCTCT----- NTTATCTNNNNNNNNCNN	

**M18**



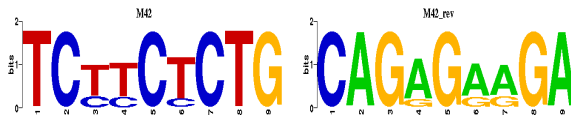
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0065.2_PPARG_RXRA	2.2442e-08	----RGCAGAGGGCAG NNRGGNCAAAGGKCA-	
MA0139.1_CTCF	1.0137e-06	-----RGCAGAGGGCAG-- YNNCCASYAGGKGGCRSNN	
MA0290.1_DAL81	5.1891e-05	---CTGCCCTCTGCY--- AATCCCGCCCGGGCTTTT	
MA0155.1_INSM1	1.8270e-04	CTGCCCTCTGCY- -YGCCCCCTGRCA	
MA0114.1_HNF4A	1.8902e-04	--RGCAGAGGGCAG RGNNCAAAGKNCA-	
MA0283.1_CHA4	2.6329e-03	CTGCCCTCTGCY ----NCTCCGCC	
MA0159.1_RXR_RAR_DR5	2.7842e-03	CTGCCCTCTGCY----- -TGACCTNYNNNTGAMCY	
MA0456.1_opa	4.6521e-03	-RGCAGAGGGCAG CNGCGGGGGGKCA-	
MA0017.1_NR2F1	5.0799e-03	CTGCCCTCTGCY--- -TGAMCTTTGNMCNN	
MA0115.1_NR1H2_RXRA	7.0989e-03	-CTGCCCTCTGCY---- STTGACCTTTGACTTT	



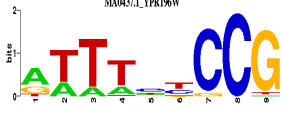


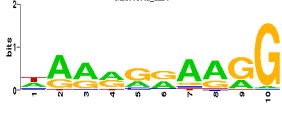

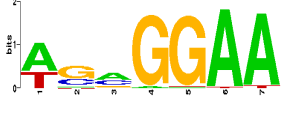


M86



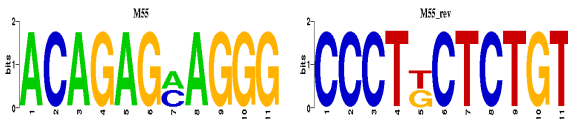
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0364.1_REI1	1.4987e-07	-CAGGGGAG NCAGGGG--	
MA0366.1_RGM1	1.7889e-06	CTCCCCTG --CCCCT--	
MA0342.1_MSN4	1.8863e-06	CAGGGGAG -AGGGG--	
MA0341.1_MSN2	4.9834e-06	CAGGGGAG -AGGGG--	
MA0344.1_NHP10	3.7048e-05	-CAGGGGAG NCCGGGGA-	
MA0056.1_MZF1_1-4	5.5272e-05	CTCCCCTG -TCCCN-	
MA0155.1_INSM1	1.4445e-04	-CTCCCCTG--- YGCCCCCTGRCA	
MA0086.1_sna	1.7218e-04	CTCCCCTG --CACCTG	
MA0413.1_USV1	3.9817e-04	-----CAGGGGAG----- NNNNNNTTCAGGGGKANNNN	
MA0154.1_EBF1	5.7907e-04	CTCCCCTG--- -TCCCTNGGGN	

**M42**

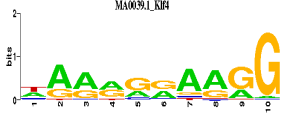






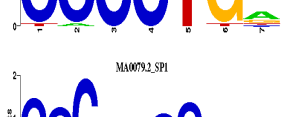
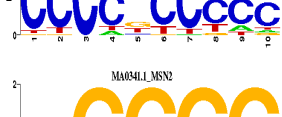



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0029.1_Evi1	1.6087e-04	-----TCTTCTCTG NNTTATCTTRTCTN	
MA0377.1_SFL1	7.7378e-04	-----CAGAGAAGA----- NNNNNNNANNGAAGAWNNNWNW	
MA0437.1_YPR196W	1.7888e-03	TCTTCTCTG ATTTNYCCG	
MA0035.2_Gata1	2.2694e-03	-TCTTCTCTG- NNNTTATCTNN	
MA0287.1_CUP2	3.5058e-03	--TCTTCTCTG CWTTYTGCTG	
MA0039.1_Klf4	4.7093e-03	TCTTCTCTG- CCTTYYYTTN	
MA0289.1_DAL80	5.1348e-03	CAGAGAAGA -CGATAAG-	
MA0081.1_SPIB	5.2402e-03	-TCTTCTCTG TTCKST---	
MA0371.1_ROX1	5.8837e-03	CAGAGAAGA----- --GAGAACAATNGR	
MA0354.1_PDR8	9.1598e-03	TCTTCTCTG- --ATCTCCGN	

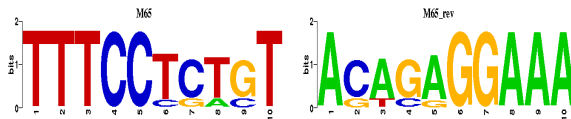
M55








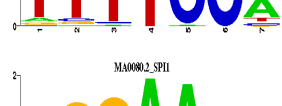






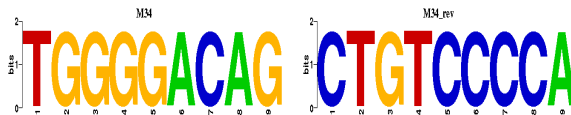
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0039.1_Klf4	2.7522e-03	CCCTKCTCTGT CCTTYYT TN-	
MA0276.1_ASH1	3.2619e-03	ACAGAGMAGGG CCRNATCRGG-	
MA0442.1_SOX10	4.8205e-03	ACAGAGMAGGG ACAAWG-----	
MA0366.1_RGM1	5.5788e-03	ACAGAGMAGGG- -----AGGGG	
MA0083.1_SRF	5.9825e-03	ACAGAGMAGGG- CCATATATGGGC	
MA0342.1_MSN4	6.1085e-03	-CCCTKCTCTGT CCCCT-----	
MA0364.1_REI1	6.3669e-03	ACAGAGMAGGG- -----NCAGGGG	
MA0079.2_SP1	6.6704e-03	ACAGAGMAGGG -GGGGGNGGGG	
MA0341.1_MSN2	1.0723e-02	ACAGAGMAGGG- -----AGGGG	
MA0456.1_opa	1.1128e-02	ACAGAGMAGGG-- -CNGCGGGGGGKC	

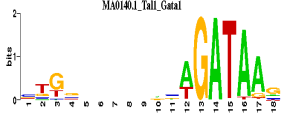








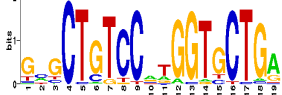
**M65**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0081.1_SPIB	4.4572e-09	TTTCCTCTGT -TTCCKST--	
MA0370.1_RME1	2.3636e-05	TTTCCTCTGT- -TNCCTTTNNA	
MA0287.1_CUP2	6.5338e-05	--TTTCCTCTGT CWTTTTYGCTG-	
MA0090.1_TEAD1	1.3280e-04	ACAGAGGAAA--- -CNSWGGAAATGTR	
MA0156.1_FEV	1.4668e-04	-TTTCCTCTGT AYTTCCTG---	
MA0326.1_MAC1	1.5174e-04	ACAGAGGAAA --YGAGCAAA	
MA0152.1_NFATC2	6.7478e-04	ACAGAGGAAA- ----TGGAAA	
MA0080.2_SPI1	7.1496e-04	-TTTCCTCTGT ACTTCCT----	
MA0277.1_AZF1	9.2702e-04	TTTCCTCTGT TTTCTTTT-	
MA0047.2_Foxa2	1.7328e-03	ACAGAGGAAA-- NNWRWGTAACA	

M34



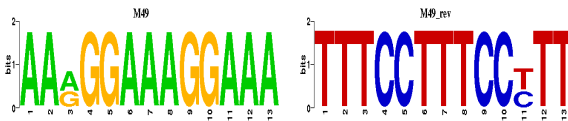
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0140.1_Tal1_Gata1	1.6143e-08	-----CTGTCCCCA----- NTTATCTNNNNNNNNNCNN	
MA0299.1_GAL4	3.7551e-05	-----CTGTCCCCA- GANNRNTNTNNCCG	
MA0056.1_MZF1_1-4	4.2872e-05	CTGTCCCCA ---TCCCCN	
MA0207.1_achi	4.7322e-05	CTGTCCCCA CTGTCA---	
MA0227.1_hth	1.0690e-04	CTGTCCCCA CTGTCA---	
MA0016.1_usp	4.0180e-04	--CTGTCCCCA NNGTGACCC-	
MA0268.1_ADR1	4.7486e-04	-TGGGGACAG KTGGGN---	
MA0436.1_YPR022C	4.8959e-04	--TGGGGACAG NGTGGG----	
MA0344.1_NHP10	1.6034e-03	CTGTCCCCA-- ---TCCCCGN	
MA0138.1_REST	2.1644e-03	-----TGGGGACAG--- TCAGCACCWNGGACAGCNC	

**M64**



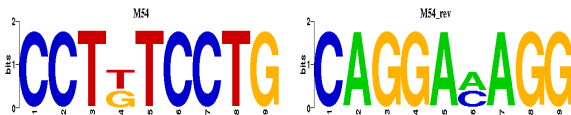
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0056.1_MZF1_1-4	1.1400e-04	TTTCCCCAGT --TCCCN--	
MA0421.1_YDR026C	1.1969e-04	TTTCCCCAGT TTTACCCGGN	
MA0344.1_NHP10	1.5382e-04	TTTCCCCAGT --TCCCGGN	
MA0335.1_MET4	2.4885e-04	TTTCCCCAGT- ---CCACAGNT	
MA0437.1_YPR196W	5.2825e-04	ACTGGGGAAA- --CGGRNAAAT	
MA0332.1_MET28	5.3056e-04	TTTCCCCAGT ---CCACAG-	
MA0268.1_ADR1	8.1934e-04	ACTGGGGAAA -KTGGGGN--	
MA0436.1_YPR022C	8.4360e-04	ACTGGGGAAA NGTGGGG---	
MA0152.1_NFATC2	2.1754e-03	ACTGGGGAAA- ----TGGAAAA	
MA0337.1_MIG1	3.3619e-03	ACTGGGGAAA -SYGGGGN--	

**M49**



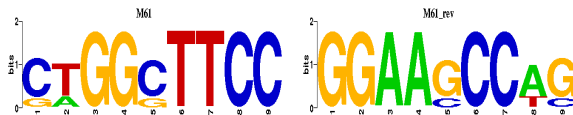
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0039.1_Klf4	2.7706e-07	AARGGAAAGGAAA NAARRRAAGG---	
MA0137.1_STAT1	6.3859e-07	---TTTCCTTTCCYTT NAGTTTCNNTTTCY--	
MA0277.1_AZF1	1.6162e-06	TTTCCTTTCCYTT TTTCTTTTT----	
MA0120.1_id1	8.3195e-06	AARGGAAAGGAAA- --CGNNANRRMNA	
MA0370.1_RME1	1.6591e-05	TTTCCTTTCCYTT -TNCCTTTNNA--	
MA0051.1_IRF2	2.6404e-05	---TTTCCTTTCCYTT--- NNWWNRSTTTTCRCTTCS	
MA0045.1_HMG-I_Y	1.0460e-04	---TTTCCTTTCCYTT RTTYKKNYNTTTNTNN	
MA0156.1_FEV	5.3671e-04	-TTTCCTTTCCYTT AYTTCCTG-----	
MA0081.1_SPIB	7.8631e-04	TTTCCTTTCCYTT -TTCKST-----	
MA0152.1_NFATC2	1.9983e-03	AARGGAAAGGAAA --TGAAAA-----	

M54



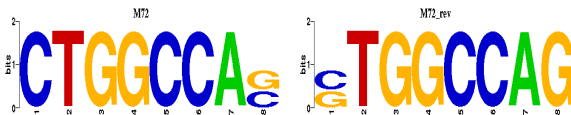
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0156.1_FEV	1.2864e-06	CCTKTCCTG -AYTTCCTG	
MA0039.1_Klf4	2.3829e-05	CCTKTCCTG- CCTTYYTNN	
MA0144.1_Stat3	4.3366e-04	CCTKTCCTG--- --CTTCCNGGAA	
MA0207.1_achi	9.2285e-04	CCTKTCCTG -CTGTCA--	
MA0026.1_Eip74EF	9.9291e-04	CCTKTCCTG --YTCCGG	
MA0227.1_hth	1.6333e-03	CCTKTCCTG -CTGTCA--	
MA0113.1_NR3C1	2.6313e-03	-CAGGAMAGG----- NYNGNACRKNNTGTTCYN	
MA0080.2_SPI1	3.0872e-03	CCTKTCCTG -ACTTCCT-	
MA0152.1_NFATC2	3.1151e-03	CAGGAMAGG -TGGAAAA-	
MA0112.2_ESR1	4.4049e-03	CAGGAMAGG----- -RGGTCANNNTGACCTNNNNN	

**M61**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0304.1_GCR1	8.0987e-09	CTGGCTTCC- --GGCTTCCA	
MA0305.1_GCR2	7.6009e-07	-GGAAGCCAG NGGAAGC---	
MA0260.1_che-1	3.9460e-06	CTGGCTTCC --GGYTTC-	
MA0080.1_SPI1	4.7205e-05	CTGGCTTCC- ----STCCN	
MA0263.1_ttx-3_c	3.2135e-04	----GGAAGCCAG- YTAACKAARCCAAT	
MA0080.2_SPI1	5.1286e-04	CTGGCTTCC- ---ACTTCCT	
MA0149.1_EWSR1-FL11	5.1841e-04	----CTGGCTTCC---- CCTTCCTTCCTTCCTTC	
MA0026.1_Eip74EF	1.0870e-03	CTGGCTTCC-- ----YTTCGG	
MA0116.1_Zfp423	1.6487e-03	-----CTGGCTTCC GNMMCCYTRGGKKSC	
MA0145.1_Tcfcp2l1	2.7154e-03	CTGGCTTCC----- CYGGNTNNRNCYGG	

M72

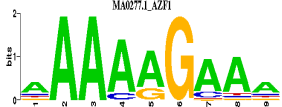
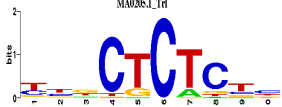
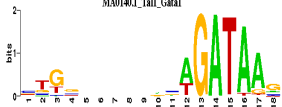
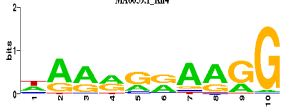
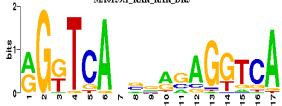


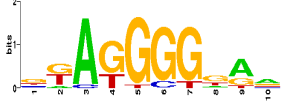

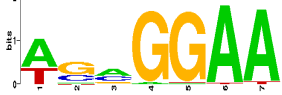


	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0381.1_SKN7	1.3090e-04	CTGGCCAS NYGGCC--	
MA0138.1_REST	1.2930e-03	-----STGGCCAG---- TCAGCACCCWNGGACAGCNC	
MA0213.1_brk	2.0110e-03	STGGCCAG SYGGCGCY	
MA0138.2_REST	2.1818e-03	----CTGGCCAS----- GNNGCTGTCCNNGGTGCTGAN	
MA0097.1_bZIP911	2.3120e-03	-----STGGCCAG GRTGACGTGGCC--	
MA0334.1_MET32	2.6803e-03	-STGGCCAG TGTGGCN--	
MA0373.1_RPN4	2.7019e-03	-STGGCCAG GGTGGCG--	
MA0365.1_RFX1	3.7567e-03	CTGGCCAS- -TRGCAACN	
MA0161.1_NFIC	5.9708e-03	STGGCCAG --NGCCAA	
MA0092.1_Hand1_T	6.3353e-03	STGGCCAG--- -NWNCCAGAYN	

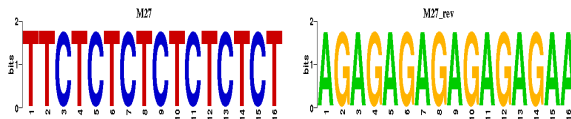
M17





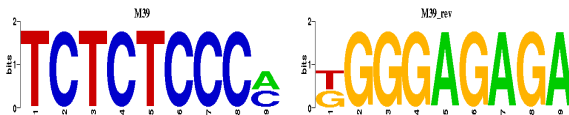
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	6.8317e-03	AGAGAGAGA AAAAAGAAA	
MA0205.1_Tr1	9.1893e-03	-AGAGAGAGA NNGAGAGNNR	
MA0140.1_Tal1_Gata1	1.1257e-02	-----AGAGAGAGA----- NNGNNNNNNNNAGATAAN	
MA0039.1_Klf4	2.1497e-02	TCTCTCTCT- CCTTYYTTN	
MA0159.1_RXR_RAR_DR5	2.5942e-02	---TCTCTCTCT----- TGACCTNYNNNTGAMCY	
MA0050.1_IRF1	3.4038e-02	----TCTCTCTCT GGTTTCRNTTN-	
MA0298.1_FZF1	3.8021e-02	AGAGAGAGA TGATAG---	
MA0057.1_MZF1_5-13	3.8756e-02	-TCTCTCTCT NTNCCCCTMN	
MA0207.1_achi	4.4982e-02	TCTCTCTCT -CTGTCA--	
MA0081.1_SPIB	4.9710e-02	TCTCTCTCT TTCKST--	

M27



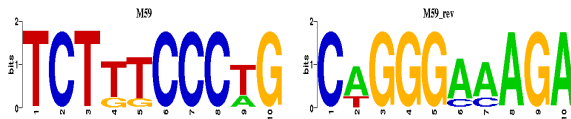
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0140.1_Tal1_Gata1	6.7213e-03	-TTCTCTCTCTCTCTCT- NTTATCTNNNNNNNNNCNN	
MA0149.1_EWSR1-FLI1	1.6550e-02	AGAGAGAGAGAGAGAA-- GGAAGGAAGGAAGGAAGG	
MA0120.1_id1	1.7155e-02	AGAGAGAGAGAGAGAA ----CGNNANRRMNA	
MA0277.1_AZF1	2.3172e-02	-TTCTCTCTCTCTCTCT TTTCTTTTT-----	
MA0050.1_IRF1	3.4569e-02	AGAGAGAGAGAGAGAA--- -----NAAANYGAAACC	
MA0051.1_IRF2	5.6780e-02	AGAGAGAGAGAGAGAA---- --SGAAAGYGAAASYNWWNN	
MA0081.1_SPIB	7.1204e-02	-TTCTCTCTCTCTCTCT TTCKKST-----	
MA0011.1_br_Z2	8.6844e-02	TTCTCTCTCTCTCTCT WNCTATTT-----	
MA0307.1_GLN3	8.9826e-02	TTCTCTCTCTCTCTCT TTATC-----	
MA0205.1_Trl	9.1285e-02	-AGAGAGAGAGAGAGAA NNGAGAGNNR-----	

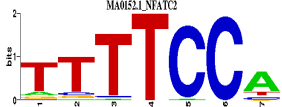


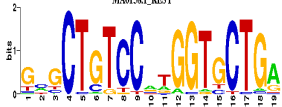
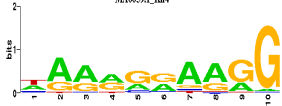

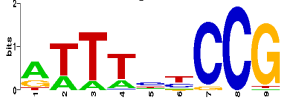
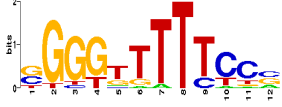

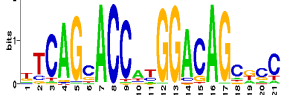
M39



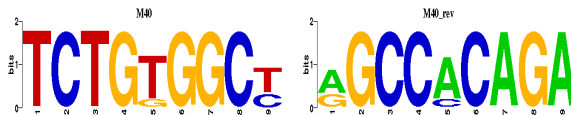
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0140.1_Tal1_Gata1	7.8904e-06	----TCTCTCCCM----- NTTATCTNNNNNNNNNCNN	
MA0450.1_hkb	1.0132e-05	TCTCTCCCM TCACGCCCM	
MA0432.1_YNR063W	2.1272e-04	TCTCTCCCM -ATCTCCGA	
MA0079.2_SP1	3.2575e-04	-KGGGAGAGA GGGGGNGGGG	
MA0056.1_MZF1_1-4	5.6261e-04	TCTCTCCCM- ----TCCCN	
MA0062.1_GABPA	1.3055e-03	TCTCTCCCM-- -SNCTTCCGGT	
MA0354.1_PDR8	1.5359e-03	TCTCTCCCM -ATCTCCGN	
MA0437.1_YPR196W	2.4426e-03	KGGGAGAGA- -CGGRNAAAT	
MA0422.1_YDR520C	2.6633e-03	-TCTCTCCCM NTAWN TCCGN	
MA0065.2_PPARG_RXRA	5.2073e-03	---TCTCTCCCM--- TGM CCTTGNCCYNN	








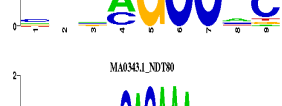
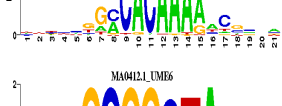
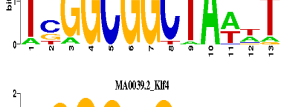
M59



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0152.1_NFATC2	9.9386e-04	CAGGGAAAGA --TGGAAAA--	
MA0364.1_REI1	1.0116e-03	-CAGGGAAAGA NCAGGGG----	
MA0294.1_EDS1	1.2259e-03	CAGGGAAAGA- --NGGAANAAN	
MA0138.1_REST	1.6088e-03	--TCTTTCCCTG----- GNGCTGTCCNWWGGTGCTGA	
MA0039.1_Klf4	1.6103e-03	TCTTTCCCTG- -CCTTYYTTN	
MA0111.1_Spz1	1.7071e-03	CAGGGAAAGA-- -AGGGTAWCAGC	
MA0437.1_YPR196W	2.1348e-03	CAGGGAAAGA CGGRNAAAT-	
MA0022.1_dI_1	2.3417e-03	CAGGGAAAGA---- --NGGAAAAACCCS	
MA0149.1_EWSR1-FLI1	2.3493e-03	-----CAGGGAAAGA---- GGAAGGAAGGAAGGAAGG	
MA0138.2_REST	3.1861e-03	-----CAGGGAAAGA---- NTCAGCACCNNGGACAGCNC	





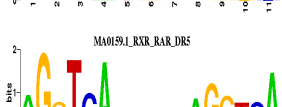
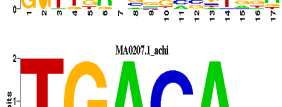
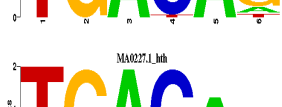



**M40**



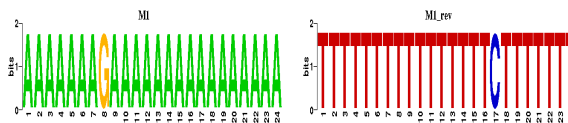
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	1.4100e-08	AGCCACAGA --CCACAG--	
MA0334.1_MET32	6.2374e-07	TCTGTGGCT --TGTGGCN	
MA0002.2_RUNX1	3.2086e-06	-AGCCACAGA- NAACCACARN	
MA0335.1_MET4	6.8875e-06	AGCCACAGA- --CCACAGNT	
MA0373.1_RPN4	3.8594e-04	AGCCACAGA CGCCACC--	
MA0002.1_RUNX1	5.7799e-04	-AGCCACAGA- NAACCACARWW	
MA0285.1_CRZ1	6.7001e-04	TCTGTGGCT--- ---GNGGCTNNN	
MA0343.1_NDT80	7.8286e-04	-----TCTGTGGCT----- NNNNGNTTTTGTGKCNNNNNN	
MA0412.1_UME6	7.9786e-04	----AGCCACAGA AwwTAGCCGCCSA	
MA0039.2_Klf4	2.2238e-03	AGCCACAGA-- -GCCMCRCcCN	

M87



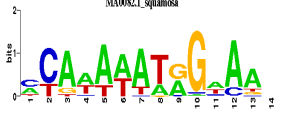
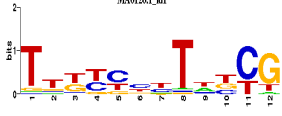
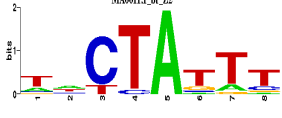

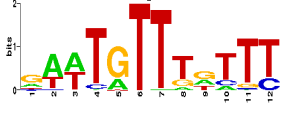





	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0332.1_MET28	6.2435e-06	-CACAGAG CCACAG--	
MA0335.1_MET4	2.0192e-04	-CACAGAG CCACAGNT	
MA0442.1_SOX10	5.9546e-04	CACAGAG -ACAAWG	
MA0002.2_RUNX1	2.3166e-03	----CACAGAG NAACCACARNN	
MA0159.1_RXR_RAR_DR5	2.8910e-03	-----CTCTGTG----- TGACCTNYNNNTGAMCY	
MA0207.1_achi	3.8877e-03	CTCTGTG- --CTGTCA	
MA0227.1_hth	7.0136e-03	CTCTGTG- --CTGTCA	
MA0327.1_MATA1	1.0426e-02	CTCTGTG- -ATTGTGY	
MA0334.1_MET32	1.0642e-02	CTCTGTG--- ---TGTGGCN	
MA0002.1_RUNX1	1.2220e-02	----CACAGAG NAACCACARWW	

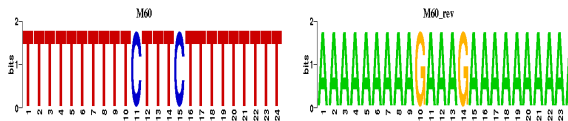
**M1**


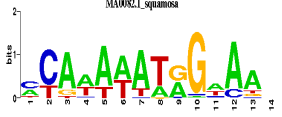
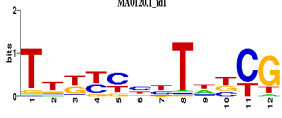
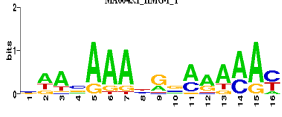
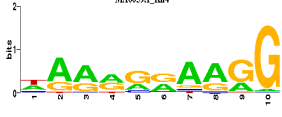

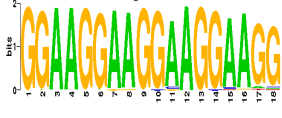


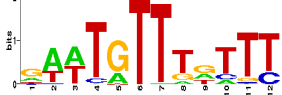


*forward*                      *reverse compliment*

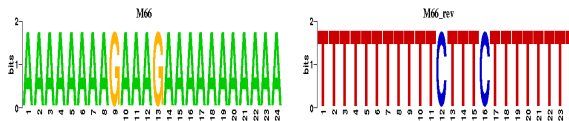
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	1.0088e-11	TTTTTTTTTTTTTTTTCTTTTTT -----TTTCTTTT---	
MA0045.1_HMG-I_Y	6.2762e-06	TTTTTTTTTTTTTTTTCTTTTTT- -----RTTYKNYNTTNTNN	
MA0082.1_squamosa	2.1382e-05	TTTTTTTTTTTTTTTTCTTTTTT-- -----NTTNCYATWTWTGK	
MA0120.1_id1	7.4808e-05	AAAAAAAAAAAAAAAAAAAAAAAA -----CGNNANRRMNA-----	
MA0011.1_br_Z2	9.6944e-04	AAAAAAAAAAAAAAAAAAAAAAAA --AAATAGNW-----	
MA0287.1_CUP2	2.0231e-03	AAAAAAAAAAAAAAAAAAAAAAAA -----CAGCARAAWG-----	
MA0041.1_Foxd3	2.0231e-03	TTTTTTTTTTTTTTTTCTTTTTT AWTGTNTNTT-----	
MA0013.1_br_Z4	2.2874e-03	TTTTTTTTTTTTTTTTCTTTTTT -----WTWNTTACTA-----	
MA0010.1_br_Z1	2.4224e-03	-AAAAAAAAAAAAAAAAAAAAAAAA N-NTNATARACAARWN-----	
MA0459.1_tll	4.0409e-03	TTTTTTTTTTTTTTTTCTTTTTT -----KTTGACTTT---	

**M60**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	1.0088e-11	TTTTTTTTTCTTTCTTTTTTTTT -----TTCTTTT-----	
MA0082.1_squamosa	2.1382e-05	TTTTTTTTTCTTTCTTTTTTTTT -----NTTNCYATWTWTGK	
MA0120.1_id1	7.4808e-05	AAAAAAAAAGAAAGAAAAAAAAAA -----CGNNANNRRMNA	
MA0045.1_HMG-I_Y	2.7986e-04	TTTTTTTTTCTTTCTTTTTTTTT --RTTYKNYNTTNTNN-----	
MA0039.1_Klf4	5.5143e-04	AAAAAAAAAGAAAGAAAAAAAAAA -----NAARRRAAG-----	
MA0011.1_br_Z2	9.6944e-04	AAAAAAAAAGAAAGAAAAAAAAAA ----AAATAGNW-----	
MA0149.1_EWSR1-FLI1	1.4782e-03	AAAAAAAAAGAAAGAAAAAAAAAA GGAAGGAAGGAAGGAAG-----	
MA0287.1_CUP2	2.0231e-03	AAAAAAAAAGAAAGAAAAAAAAAA -----CAGCARAAWG--	
MA0013.1_br_Z4	2.2874e-03	TTTTTTTTTCTTTCTTTTTTTTT --WTWNTTACTA-----	
MA0041.1_Foxd3	2.3743e-03	TTTTTTTTTCTTTCTTTTTTTTT -----NAWTGTTTNTT--	

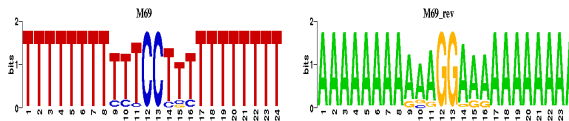
**M66**



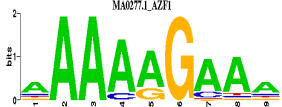




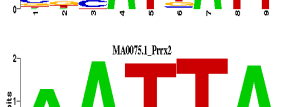
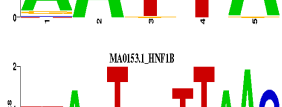





	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	1.0088e-11	TTTTTTTTTTCTTTCTTTTTTTT -----TTTCTTTT---	
MA0082.1_squamosa	2.1382e-05	TTTTTTTTTTCTTTCTTTTTTTT- -----NTTNCYATWTWTGK	
MA0045.1_HMG-I_Y	5.7420e-05	-TTTTTTTTTTCTTTCTTTTTTTT RTTYKYNNTTNTNN-----	
MA0120.1_id1	7.4808e-05	AAAAAAAAAGAAAGAAAAAAAAAAA -----CGNNANRRMNA-	
MA0039.1_Klf4	5.5143e-04	AAAAAAAAAGAAAGAAAAAAAAAAA ---NAARRRAAG-----	
MA0011.1_br_Z2	9.6944e-04	AAAAAAAAAGAAAGAAAAAAAAAAA ---AAATAGNW-----	
MA0149.1_EWSR1-FLI1	1.4782e-03	-AAAAAAAAAGAAAGAAAAAAAAAAA GGAAGGAAGGAAGGAAG-----	
MA0287.1_CUP2	2.0231e-03	AAAAAAAAAGAAAGAAAAAAAAAAA -----CAGCARAAWG---	
MA0041.1_Foxd3	2.0231e-03	-TTTTTTTTTTCTTTCTTTTTTTT NAWTGTTTNTT-----	
MA0013.1_br_Z4	2.2874e-03	TTTTTTTTTTCTTTCTTTTTTTT ---WTWNTTACTA-----	

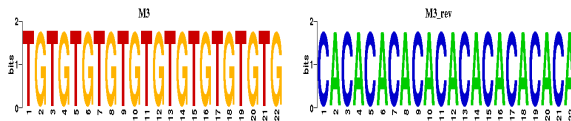
**M69**



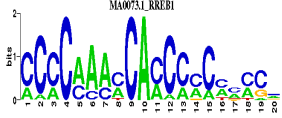
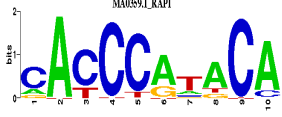
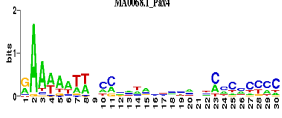


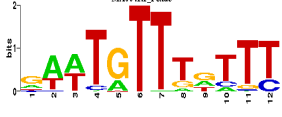

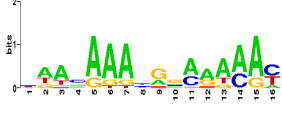




	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0277.1_AZF1	5.7562e-07	TTTTTTTTTTTTAAAAATAATTT TTTCTTTTT-----	
MA0008.1_HAT5	1.7591e-06	TTTTTTTTTTTTAAAAATAATTT -----AATAATTN	
MA0010.1_br_Z1	3.9429e-05	TTTTTTTTTTTTAAAAATAATTT NWYTTGYTATNAN-----	
MA0135.1_Lhx3	4.5213e-05	AAATTATTTTTTAAAAAAAAAAAA WAATTAATTAWYN-----	
MA0110.1_ATHB-5	4.6821e-05	TTTTTTTTTTTTAAAAATAATTT- -----AATMATTGN	
MA0075.1_Prrx2	8.4567e-05	TTTTTTTTTTTTAAAAATAATTT -----TAATT-	
MA0153.1_HNF1B	4.1072e-04	TTTTTTTTTTTTAAAAATAATTT -----GTAAWYATTAA---	
MA0013.1_br_Z4	7.5329e-04	TTTTTTTTTTTTAAAAATAATTT --WTWNTTACTA-----	
MA0041.1_Foxd3	7.5844e-04	TTTTTTTTTTTTAAAAATAATTT -----AAANAAACAWTN-	
MA0426.1_YHP1	1.1225e-03	AAATTATTTTTTAAAAAAAAAAAA CAATTA-----	

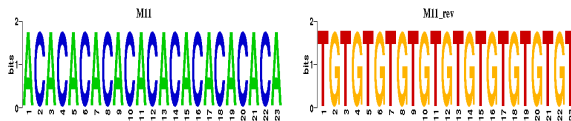
M3



*forward*                      *reverse compliment*

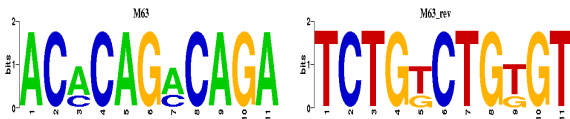
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	4.5541e-05	TGTGTGTGTGTGTGTGTGTGTG NGKKKGKGGGTGKTTTGGGG--	
MA0359.1_RAP1	6.9966e-05	TGTGTGTGTGTGTGTGTGTGTG TGTATGGGTG-----	
MA0068.1_Pax4	3.0926e-02	-----CACACACACACACACACACA AWAWWWNNMNNNNNNNNNNMNNNNYMC--	
MA0162.1_Egr1	4.0856e-02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

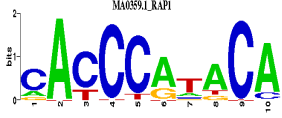



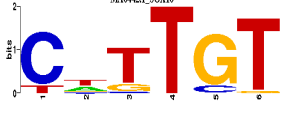
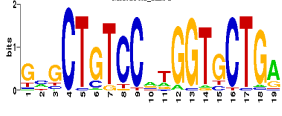
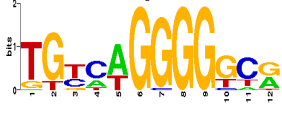
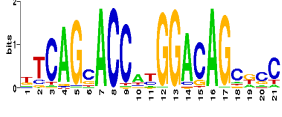

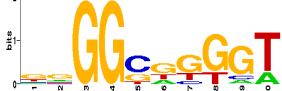
**M11**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0073.1_RREB1	5.4545e-05	TGTGTGTGTGTGTGTGTGTGTGT NGKKKGKGGGTGKTTTGGGG---	
MA0359.1_RAP1	7.7748e-05	TGTGTGTGTGTGTGTGTGTGTGT TGTATGGGTG-----	
MA0068.1_Pax4	3.6475e-02	-----ACACACACACACACACACACA AWAWWWNNNNNNNNNNNNMNNNNNYMC--	
MA0162.1_Egr1	4.3479e-02	ACACACACACACACACACACACA MCGCCACGCN-----	
MA0327.1_MATA1	4.4684e-02	--TGTGTGTGTGTGTGTGTGTGTGT ATTGTGY-----	
MA0041.1_Foxd3	6.9130e-02	ACACACACACACACACACACACA AAANAAACAWTN-----	
MA0332.1_MET28	8.3965e-02	ACACACACACACACACACACACA CCACAG-----	
MA0045.1_HMG-I_Y	1.0975e-01	TGTGTGTGTGTGTGTGTGTGTGT -RTTTYKNYNTTNTNN-----	
MA0288.1_CUP9	1.1356e-01	--TGTGTGTGTGTGTGTGTGTGTGT WWTGTGTCA-----	
MA0270.1_AFT2	1.1759e-01	TGTGTGTGTGTGTGTGTGTGTGT NGGGTGTN-----	

**M63**



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0359.1_RAP1	1.1792e-04	TCTGTCTGTGT- --TGTATGGGTG	
MA0332.1_MET28	1.8812e-04	ACACAGACAGA CCACAG-----	
MA0207.1_achi	2.6469e-04	TCTGTCTGTGT -CTGTCA----	
MA0227.1_hth	5.4985e-04	TCTGTCTGTGT -CTGTCA----	
MA0442.1_SOX10	2.1014e-03	ACACAGACAGA ACAAG-----	
MA0138.1_REST	4.3451e-03	--TCTGTCTGTGT----- GNGCTGTCCNWGGTGTCTGA	
MA0155.1_INSM1	5.0270e-03	---ACACAGACAGA YGCCCCCTGRCA--	
MA0138.2_REST	6.4388e-03	-----ACACAGACAGA--- NTCAGCACCNNGGACAGCNC	
MA0335.1_MET4	7.1630e-03	ACACAGACAGA CCACAGNT---	
MA0079.1_SP1	8.0562e-03	ACACAGACAGA ACCCNGCCNN-	

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