

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

[Input file: 75 motifs loaded](#)

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

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

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

[Download results as a PDF](#)

[Click here to run STAMP again.](#)

Multiple Alignment

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

```

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

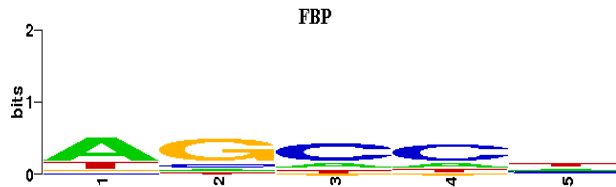
Stamp Results

12/18/13

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

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

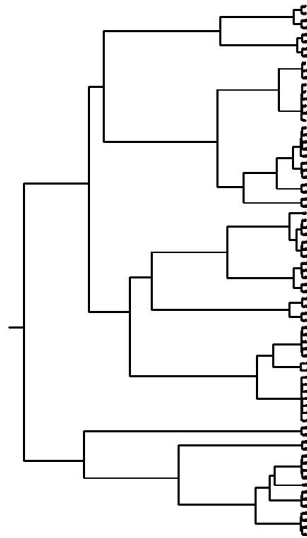
Familial Profile:
[\(click for matrix\)](#)



Motif Tree

Tree (drawn by **Phylip**)





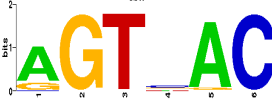



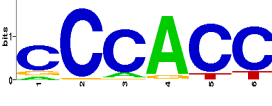



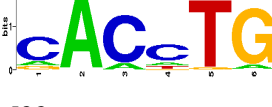

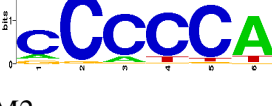

[Click here for Newick-format tree \(viewable with MEGA\)](#)

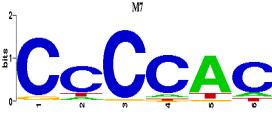

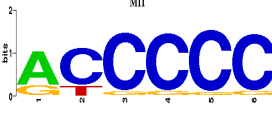



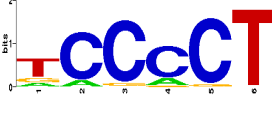



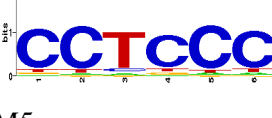

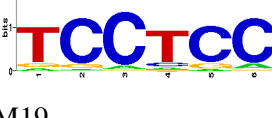

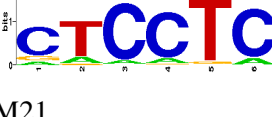



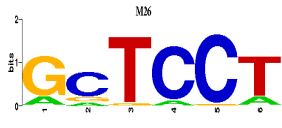

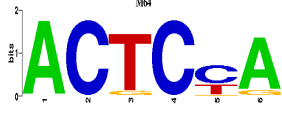

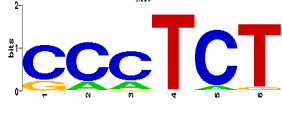

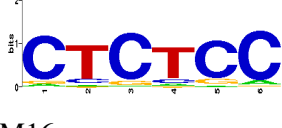




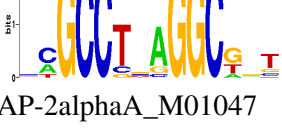
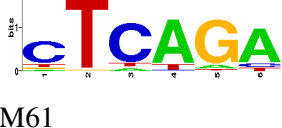
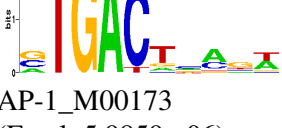


Input Motif

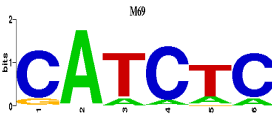

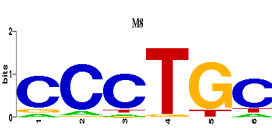



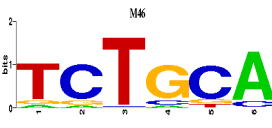

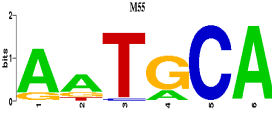
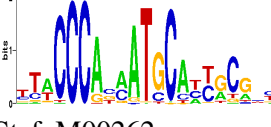
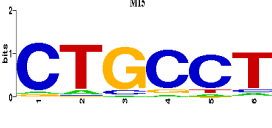




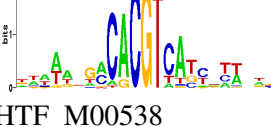
Best match in
TRANSFAC

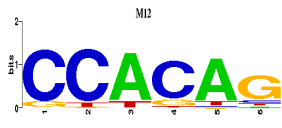

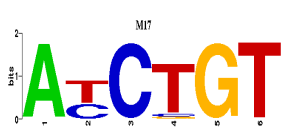

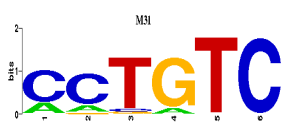



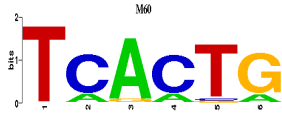

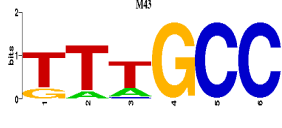
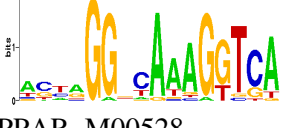
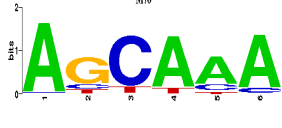

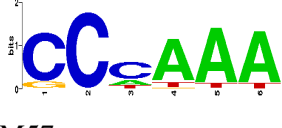
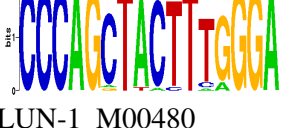
 M0	 PCF2_M00948 (E val: 1.4933e-04)
 M6	 SMAD4_M00733 (E val: 1.4949e-05)
 M29	 Poly_M00211 (E val: 2.3168e-05)
 M42	 RORalpha_M01138

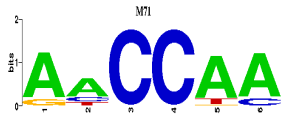

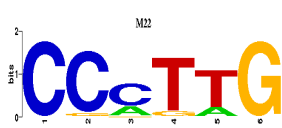
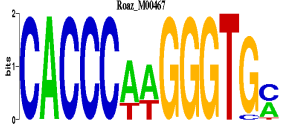
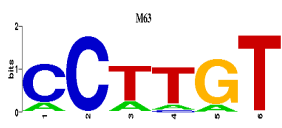

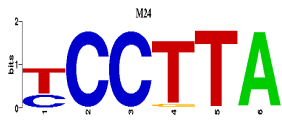

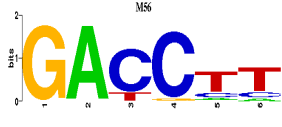

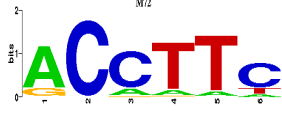





	(E val: 3.5726e-06)
 M33	 GCN4_M00204 (E val: 1.2845e-05)
 M51	 AP-1_M00926 (E val: 9.1095e-06)
 M40	 AP-1_M00188 (E val: 1.5281e-07)
 M73	 CRP_M00202 (E val: 1.7121e-06)
 M1	 CAC-binding_M00720 (E val: 3.4753e-07)
 M14	 ROM_M00700 (E val: 1.4140e-07)
 M32	 E12_M00693 (E val: 6.1257e-08)
 M2	 GBF_M00633 (E val: 1.6031e-08)


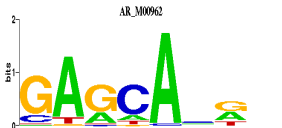


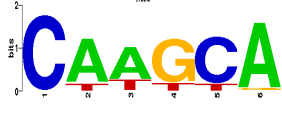

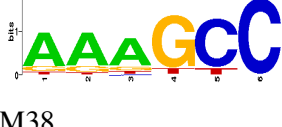
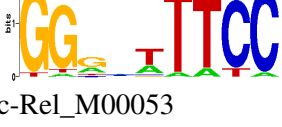
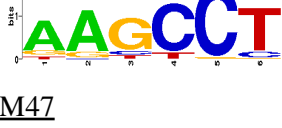
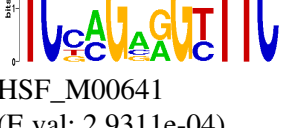
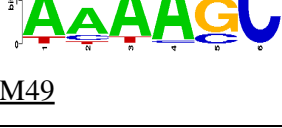
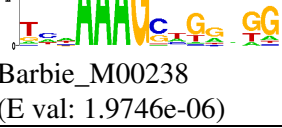
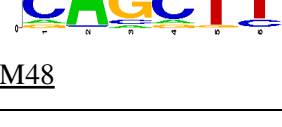
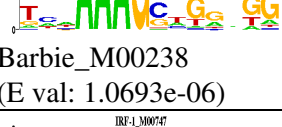
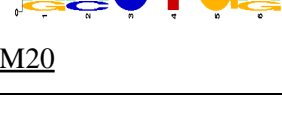
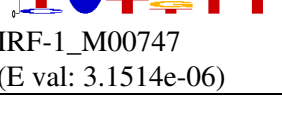
 <p>M7</p>	 <p>SREBP-1_M00221 (E val: 3.3071e-08)</p>
 <p>M11</p>	 <p>GBF_M00633 (E val: 4.7679e-08)</p>
 <p>M3</p>	 <p>STRE_M00308 (E val: 1.0178e-06)</p>
 <p>M13</p>	 <p>STRE_M00308 (E val: 1.1702e-06)</p>
 <p>M4</p>	 <p>HNF4_M01033 (E val: 2.1062e-05)</p>
 <p>M5</p>	 <p>MAZ_M00649 (E val: 1.5834e-09)</p>
 <p>M19</p>	 <p>MAZ_M00649 (E val: 1.1283e-05)</p>
 <p>M21</p>	 <p>PU.1_M00658 (E val: 2.1038e-05)</p>

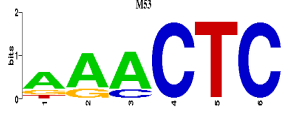



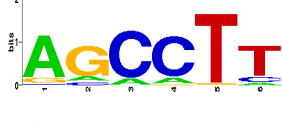

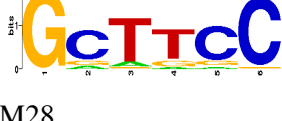

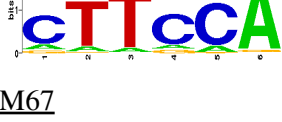
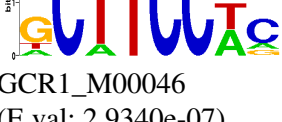
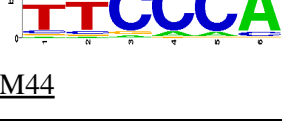
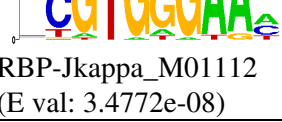
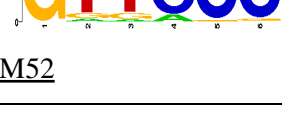
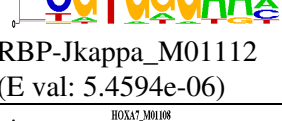

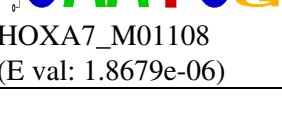
 <p>M26</p>	 <p>TFIIA_M00707 (E val: 2.2498e-04)</p>
 <p>M64</p>	 <p>FOXM1_M00630 (E val: 7.7366e-05)</p>
 <p>M10</p>	 <p>MAZ_M00649 (E val: 2.4891e-05)</p>
 <p>M16</p>	 <p>NRSE_M00325 (E val: 3.1938e-06)</p>
 <p>M27</p>	 <p>GAGA_M00723 (E val: 1.5669e-05)</p>
 <p>M30</p>	 <p>AP-2alphaA_M01047 (E val: 3.3057e-06)</p>
 <p>M61</p>	 <p>AP-1_M00173 (E val: 5.9859e-06)</p>
 <p>M54</p>	 <p>PEA3_M00655 (E val: 8.1511e-08)</p>

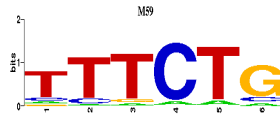

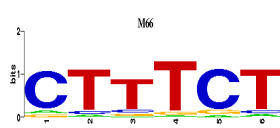

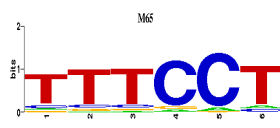



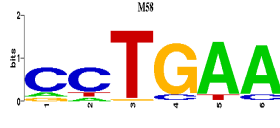

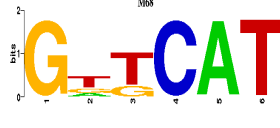



 <p>M69</p>	 <p>Sry-beta_M00666 (E val: 2.5462e-08)</p>
 <p>M8</p>	 <p>Ttk_M00009 (E val: 1.6676e-05)</p>
 <p>M9</p>	 <p>Oct-1_M00342 (E val: 1.0466e-04)</p>
 <p>M46</p>	 <p>LMAF_M01139 (E val: 2.8172e-04)</p>
 <p>M55</p>	 <p>Staf_M00262 (E val: 1.6499e-05)</p>
 <p>M15</p>	 <p>SMAD3_M00701 (E val: 7.2430e-05)</p>
 <p>M37</p>	 <p>MYB_M00773 (E val: 8.4698e-07)</p>
 <p>M18</p>	 <p>HTF_M00538 (E val: 2.8499e-04)</p>

 <p>M12</p>	 <p>SEF-1_M00214 (E val: 5.1519e-07)</p>
 <p>M17</p>	 <p>Tal-1beta-ITF-2_M00070 (E val: 1.8949e-06)</p>
 <p>M31</p>	 <p>E2A_M00973 (E val: 8.3308e-07)</p>
 <p>M39</p>	 <p>OVO_M01101 (E val: 1.0877e-07)</p>
 <p>M60</p>	 <p>Gfi1b_M01058 (E val: 4.7983e-07)</p>
 <p>M43</p>	 <p>PPAR_M00528 (E val: 6.3938e-06)</p>
 <p>M70</p>	 <p>DBP_M00624 (E val: 1.0532e-05)</p>
 <p>M57</p>	 <p>LUN-1_M00480 (E val: 4.2352e-07)</p>

 <p><u>M71</u></p>	 <p>Zec_M01081 (E val: 1.3913e-07)</p>
 <p><u>M22</u></p>	 <p>Roaz_M00467 (E val: 1.2455e-06)</p>
 <p><u>M63</u></p>	 <p>SF1_M00727 (E val: 1.2169e-05)</p>
 <p><u>M24</u></p>	 <p>SRF_M00186 (E val: 1.2289e-05)</p>
 <p><u>M56</u></p>	 <p>SF1_M00727 (E val: 5.7136e-09)</p>
 <p><u>M72</u></p>	 <p>SF1_M00727 (E val: 8.2814e-06)</p>
 <p><u>M41</u></p>	 <p>TTF1_M00432 (E val: 2.6267e-05)</p>
 <p><u>M45</u></p>	 <p>TCF-4_M00671 (E val: 2.7015e-09)</p>

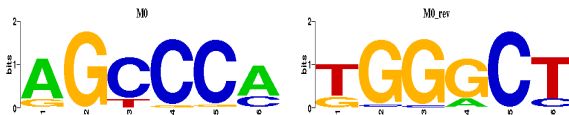
 <p>M25</p>	 <p>AR_M00962 (E val: 1.1602e-04)</p>
 <p>M34</p>	 <p>PacC_M00247 (E val: 2.2228e-05)</p>
 <p>M35</p>	 <p>Rim101p_M01030 (E val: 4.5988e-06)</p>
 <p>M38</p>	 <p>c-Rel_M00053 (E val: 7.5724e-06)</p>
 <p>M47</p>	 <p>HSF_M00641 (E val: 2.9311e-04)</p>
 <p>M49</p>	 <p>Barbie_M00238 (E val: 1.9746e-06)</p>
 <p>M48</p>	 <p>Barbie_M00238 (E val: 1.0693e-06)</p>
 <p>M20</p>	 <p>IRF-1_M00747 (E val: 3.1514e-06)</p>

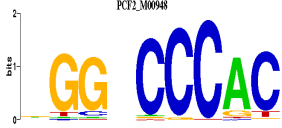


 <p>M53</p>	 <p>PXR_M01153 (E val: 4.0517e-05)</p>
 <p>M23</p>	 <p>STAT5A_M00457 (E val: 2.7288e-04)</p>
 <p>M62</p>	 <p>LRH1_M01142 (E val: 3.1879e-04)</p>
 <p>M28</p>	 <p>GCR1_M00046 (E val: 7.9996e-09)</p>
 <p>M67</p>	 <p>GCR1_M00046 (E val: 2.9340e-07)</p>
 <p>M44</p>	 <p>RBP-Jkappa_M01112 (E val: 3.4772e-08)</p>
 <p>M52</p>	 <p>RBP-Jkappa_M01112 (E val: 5.4594e-06)</p>
 <p>M50</p>	 <p>HOXA7_M01108 (E val: 1.8679e-06)</p>

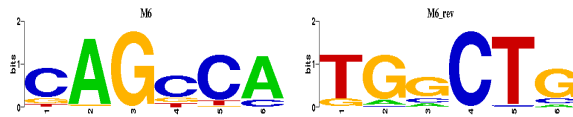
 <p>M59</p>	 <p>Rim101p_M01030 (E val: 5.7997e-05)</p>
 <p>M66</p>	 <p>BPC1_M01126 (E val: 2.1904e-06)</p>
 <p>M65</p>	 <p>Helios_M01004 (E val: 7.6911e-08)</p>
 <p>M36</p>	 <p>SREBP-1_M00221 (E val: 6.7282e-05)</p>
 <p>M58</p>	 <p>MEF-3_M00319 (E val: 2.1433e-04)</p>
 <p>M68</p>	 <p>HNF4_M01032 (E val: 9.3287e-06)</p>
 <p>M74</p>	 <p>RXR_M01152 (E val: 5.0326e-09)</p>

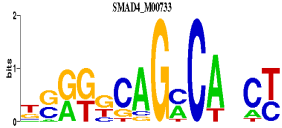



Motif Similarity Matches

M0



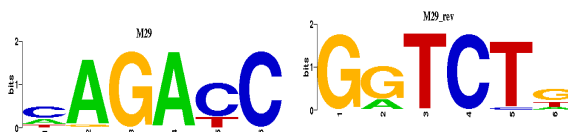
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
PCF2_M00948	1.4933e-04	-TGGGCT-- GTGGGNCCN	
Egr-1_M00243	3.2252e-04	-AGCCCA---- MCGCCCACGCA	
SREBP-1_M00749	3.7535e-04	TGGGCT TGGSGT	
Egr-3_M00245	4.3126e-04	-AGCCCA---- ACGCCCACGCA	
NGFI-C_M00244	6.5282e-04	-AGCCCA---- CCRCCCACGCA	

M6

	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SMAD4_M00733	1.4949e-05	---TGGCTG----- RGNTGKCTGNMYSN	
Dde_M00304	5.1709e-05	---CAGCCA GCTCAGCC-	
YY1_M00069	5.2781e-05	--CAGCCA----- WNSANNCAAGATGGCNGNN	
alpha-CP1_M00687	1.1940e-04	-----TGGCTG CTCATTGGCT-	

E2F-1_M00430

4.7780e-04

CAGCCA--
CCGCSAA**M29***forward**reverse complement**Name**E value**Alignment**Motif*

Poly_M00211

2.3168e-05

MAGACC--
GAGACCAC

LF-A1_M00646

4.3206e-05

MAGACC--
YWGASCC

SMAD3_M00701

6.1221e-05

---MAGACC
AGNCAGAC-

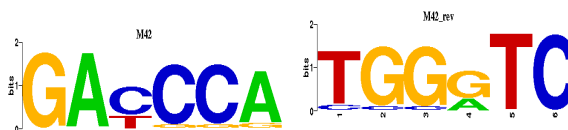
Eve_M00629

2.2100e-04

-MAGACC--
GCNGNSSWN

SMAD_M00974

2.4891e-04

-GGTCTK---
NWGTCTGNNN**M42***forward**reverse complement**Name**E value**Alignment**Motif*

Stamp Results

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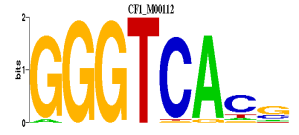
RORalpha_M01138 3.5726e-06

-GACCCA---
TGACCYANYW



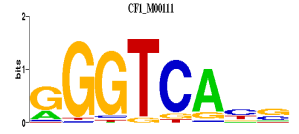
CF1_M00112 4.0526e-05

---GACCCA
NGTGACCC-



CF1_M00111 6.9776e-05

TGGGTC---
-GGGTCANN



LF-A1_M00646 8.1968e-05

--GACCCA
YWGASCC-

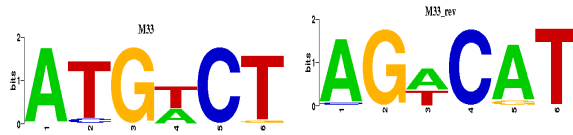


GLI_M01037 3.0742e-04

----GACCCA-
NGACCACCCAN



M33



forward

reverse compliment

Name

E value

Alignment

Motif

GCN4_M00204 1.2845e-05

--AGWCAT-
NGAGTCAYT



Bach1_M00495 2.6177e-05

-----AGWCAT---
NNATGAGTCATNNN



ARF_M00438 5.0400e-05

-AGWCAT
GAGACAA



SMAD3_M00701 6.6153e-05

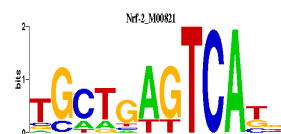
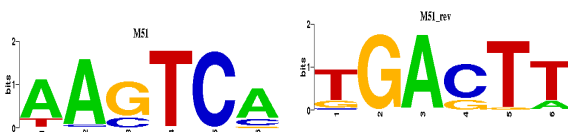
AGWCAT--
AGNCAGAC



Nrf-2_M00821

9.3301e-05

-ATGWCT-----
NNTGACTCAGCA

**M51***forward**reverse compliment**Name**E value**Alignment**Motif*

AP-1_M00926

9.1095e-06

-TGACTT
NTGACTN



AP-1_M00925

2.7455e-05

--AAGTCA
NTNAGTCA



AP-1_M00199

4.7983e-05

-TGACTT-
NTGASTCA



IRF-1_M00747

5.6941e-05

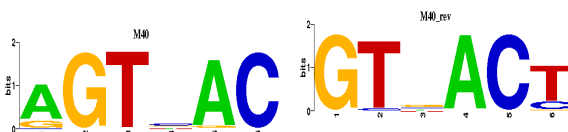
AAGTCA
AANTGA



NF-E2_M00037

8.8137e-05

-TGACTT---
RTGACTCAGC

**M40***forward**reverse compliment**Name**E value**Alignment**Motif*

Stamp Results

12/18/13

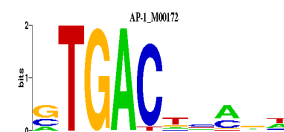
AP-1_M00188 1.5281e-07

----AGTNAC
NNTNAGTCAN



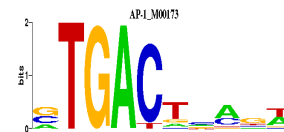
AP-1_M00172 2.2938e-07

----AGTNAC
NNKNNGTCAS



AP-1_M00173 1.2283e-06

----AGTNAC
WNKNAGTCAN



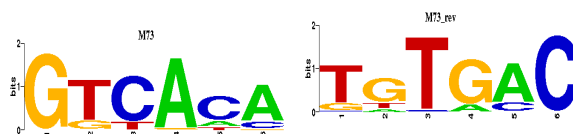
NF-E2_M00037 5.1885e-06

GTNACT----
RTGACTCAGC



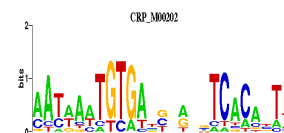
AP-1_M00926 1.0146e-05

GTNACT-
NTGACTN

**M73***forward**reverse compliment**Name**E value**Alignment**Motif*

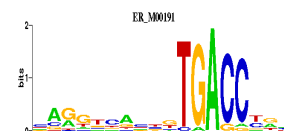
CRP_M00202 1.7121e-06

---TGTGAC-----
WANTGTGANNYNNNTCACAWTWATT



ER_M00191 8.0718e-06

----GTCACA-----
NNNGGTCANNNNNNNYNN



CF1_M00112 2.6036e-05

--GTCACA
GGGTCACN



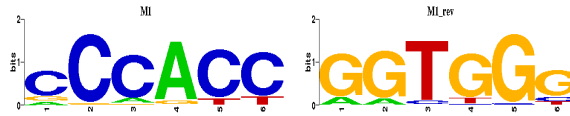
Pax-3_M00360 3.6905e-05

-----TGTGAC-
KNAAGYGTGACG

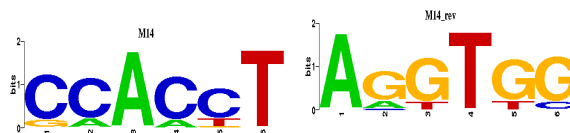


TBX5_M01044 6.6737e-05

----TGTGAC
AAGGTGTGA--

**M1***forward**reverse compliment*

Name	E value	Alignment	Motif
CAC-binding_M00720	3.4753e-07	CCCACC-- CCCASCCY	
Alfin1_M00479	4.3048e-07	----GGTGGG---- NRNRNGTGGGGNNK	
RBP-Jkappa_M01111	1.0727e-05	GGTGGG-- NGTGGGA	
ACAAT_M00309	2.2985e-05	CCCACC--- -CCACCAAT	
Zic2_M00449	2.5232e-05	-GGTGGG- GGGTGGTN	

M14*forward**reverse compliment*

Name	E value	Alignment	Motif
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Stamp Results

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ROM_M00700 1.4140e-07

--AGGTGG
TGASGTGG



AtMYB-84_M00970 2.5976e-07

CCACCT-----
SCACCTACCNCC



AtMYB-15_M00969 2.8731e-07

CCACCT-----
CCACCTACCGTN



MyoD_M00001 1.2503e-05

---AGGTGG--
NNCAGGTGNYN

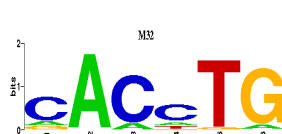
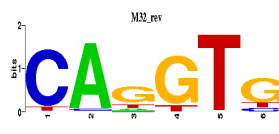


Alfin1_M00479 1.8799e-05

-----CCACCT---
MNNCCCCACNYYN



M32

*forward**reverse compliment*

Name

E value

Alignment

Motif

E12_M00693

6.1257e-08

---CACCTG-
NNNCACCTGY



MyoD_M00184

6.2178e-08

--CAGGTG-
GNCAGNTGN



AREB6_M00414

9.3201e-08

---CAGGTG--
NNMCAGGTGYN



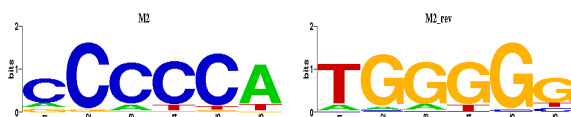
RAV1_M00344

9.9159e-08

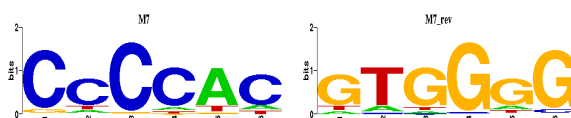
-CACCTG----
NCACCTGNNNN



myogenin_M00712 1.0138e-07

CACCTG--
CASCTGN**M2***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
GBF_M00633	1.6031e-08	TGGGGG-- TNGGGGTN	
Egr_M00807	2.6177e-07	TGGGGG---- TGGGSGCRRN	
UF1H3BETA_M01068	2.6446e-06	-----CCCCCA- GCCCCCTCCCCRC	
c-Myb_M00004	3.5234e-06	CCCCCA----- CNNNCAACNGYCNNNNN	
MOVO-B_M01104	6.5170e-06	CCCCCA CCCCCN	

M7*forward**reverse compliment*

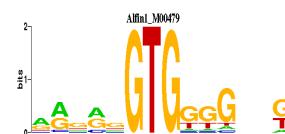
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SREBP-1_M00221	3.3071e-08	GTGGGG---- GTGGGGTGAT	

Stamp Results

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Alfin1_M00479 3.5290e-07

---CCCCAC-----
MNNCCCCACNYYN



UF1H3BETA_M01068 2.2738e-06

GTGGGG-----
GYGGGGGAGGGGC



SREBP-1_M00749 1.2793e-05

GTGGGG-
-TGGSGT

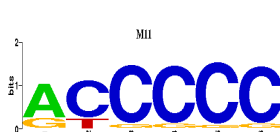


RBP-Jkappa_M01111 1.3636e-05

-GTGGGG
NGTGGGA



M11

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

GBF_M00633

4.7679e-08

-ACCCCC-
NACCCNA



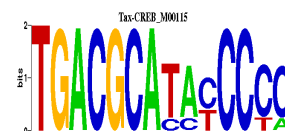
AtMYB-84_M00970 3.5790e-07

GGGGGT-----
GGNGGTAGGTGS



Tax-CREB_M00115 1.6241e-06

GGGGGT-----
GGGRTATGCGTCA



LRF_M01100

3.2454e-06

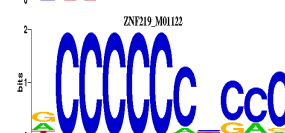
GGGGGT--
GGGGKYNN



ZNF219_M01122

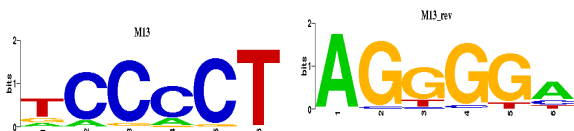
3.6511e-06

ACCCCC-----
NCCCCCNCCC



M3*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
STRE_M00308	1.0178e-06	-CCCCTT NCCCCT-	
STRE_M00154	7.1605e-06	-CCCCTT NCCCCTN	
KR_M01089	1.3368e-04	---AAGGGG-- NNAAAGGGTNN	
VDR_M00444	2.3427e-04	----CCCCTT---- TSWCCYYNYTNMCC	
MZF1_M00084	3.3814e-04	---CCCCTT--- TTNCCCCCTCNNN	

M13*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
STRE_M00308	1.1702e-06	TCCCCT NCCCCT	
STRE_M00154	8.1025e-06	TCCCCT- NCCCCTN	

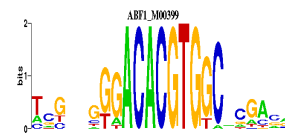
Stamp Results

12/18/13

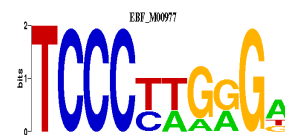
MZF1_M00083 1.1508e-05

TCCCCT-
TCCCCNN

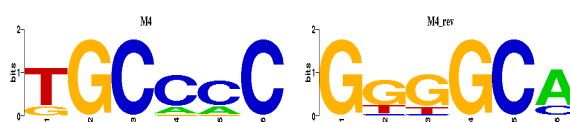
ABF1_M00399 2.0557e-05

-----TCCCCT---
NNTCNGCCACGTGTCCCNNNW

EBF_M00977 5.8209e-05

----AGGGGA
NCYCWRGGGA

M4

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

HNF4_M01033

2.1062e-05

TGCCCC
TGNNC-

Sp1_M00933

1.5394e-04

-GGGGCA--
NGGGGMGGG

bZIP910_M00356

3.3397e-04

TGCCCC-----
KGCCACGTCAT

CG1_M00440

3.3579e-04

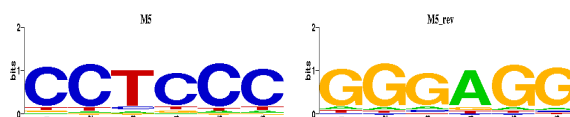
TGCCCC-----
TGNCACGTGN

CF1_M00111

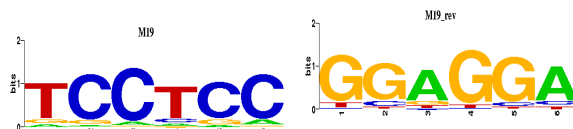
3.4516e-04

--TGCCCC
NNTGACCC

M5



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MAZ_M00649	1.5834e-09	-CCTCCC CCCTCCC	MAZ_M00649
Tra-1_M01048	2.8458e-08	-CCTCCC ACCWCCC	Tra-1_M01048
TFII-I_M00706	1.3663e-07	CCTCCC-- CCTMCNTC	TFII-I_M00706
UF1H3BETA_M01068	4.1335e-07	---CCTCCC--- GCCCCTCCCCRC	UF1H3BETA_M01068
Lyf-1_M00141	8.3465e-07	CCTCCC-- YCTCCCAA	Lyf-1_M00141

M19

	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MAZ_M00649	1.1283e-05	-GGAGGA GGGAGGG	MAZ_M00649
PU.1_M00658	1.3281e-05	--TCCTCC CTTCCTC-	PU.1_M00658
GAL4_M00049	1.7027e-05	----GGAGGA----- STTCGGASNANWGTNNNCCGNN	GAL4_M00049

Stamp Results

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GAL4_M00198 5.1234e-05

-----GGAGGA-----
NGYTCGNNNNANAGNNNNCCG

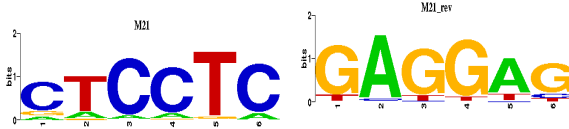


Ttk_M00009 6.0370e-05

GGAGGA-
GCAGGAC








M21

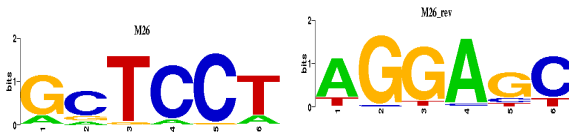


forward

reverse compliment



<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
PU.1_M00658	2.1038e-05	-CTCCTC CTTCCTC	
Elf-1_M00746	2.2984e-04	--CTCCTC-- AYTTCCTCTTN	
ROM_M00700	3.2634e-04	-GAGGAG- TGASGTGG	
GCR1_M00046	4.3240e-04	GAGGAG-- GWGGAAGC	
Nrf-2_M00108	1.0352e-03	CTCCTC-- SNCTTCCGG	

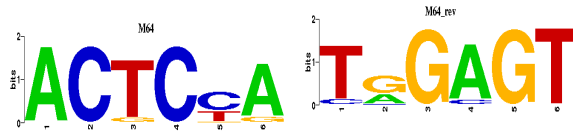
M26







forward

reverse compliment

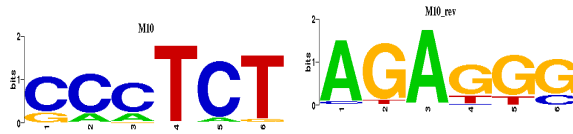
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
TFIIA_M00707	2.2498e-04	GCTCCT----- SNYCCTYNNAK	
YY1_M00069	1.9762e-03	AGGAGC----- WNSANNCAAGATGGCNGNN	
Sn_M00060	2.2414e-03	--GCTCCT----- NKRCACCTGTYN	
Ttk_M00009	2.3029e-03	GCTCCT-- -GTCCTGC	
LUN-1_M00480	2.3392e-03	-----AGGAGC----- TCCCAAAGTAGCTGGG	

M64*forward**reverse compliment*

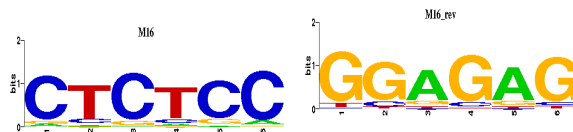
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
FOXMI_M00630	7.7366e-05	ACTCCA-- ANTCNANY	
ZID_M00085	3.7199e-04	-----TGGAGT- GRTGATRGAGCC	
p300_M00033	3.8573e-04	-----ACTCCA-- NNNNNACTCCNNN	
SREBP-1_M00749	4.0965e-04	TGGAGT TGGSGT	

ADR1_M00048

1.0593e-03

ACTCCA
MCCCC-**M10***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MAZ_M00649	2.4891e-05	CCCTCT- CCCTCCC	
NF-muE1_M00651	6.3756e-05	AGAGGG-- AGATGGCC	
Elf-1_M00746	2.6840e-04	---CCCTCT-- AYTTCCTCTTN	
TFII-I_M00706	2.9362e-04	---CCCTCT CCTMCNTC-	
COUPTF_M01036	3.1052e-04	-----CCCTCT----- NNNNTGACCTTTNMCNYYNMN	

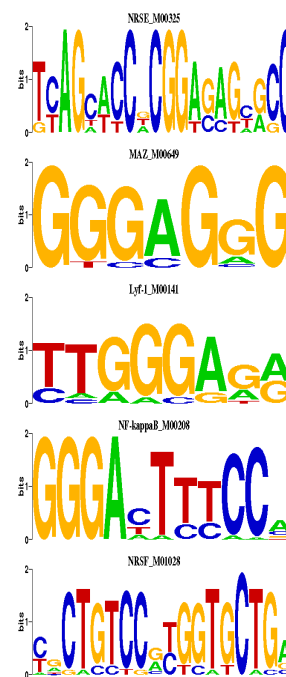
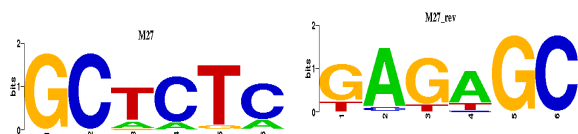
M16*forward**reverse compliment*

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

12/18/13

NRSE_M00325	3.1938e-06	-----GGAGAG----- TCAGCACCNCGGAGAGYGCC
MAZ_M00649	1.5153e-05	CTCTCC-- CCCTCCC
Lyf-1_M00141	2.5227e-04	CTCTCC--- -YCTCCCAA
NF-kappaB_M00208	4.9923e-04	-GGAGAG----- NGGAAARTCCC
NRSF_M01028	1.0947e-03	-----GGAGAG-- TCAGCACCRYGGACAGNR

**M27***forward**reverse compliment*

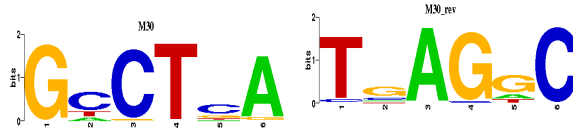
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
GAGA_M00723	1.5669e-05	--GCTCTC-- TYNCKCTCWS	
NRSE_M00325	4.6982e-05	---GCTCTC----- GGCRCTCTCCGNGGTGCTGA	
Pax-1_M00326	7.3416e-04	-----GCTCTC----- CGTTCCGCTCTAGATAT	
Poly_M00211	1.6635e-03	GAGAGC-- GAGACCAC	

TGIF_M00418

1.7629e-03

GCTCTC----

GCTGTCANNW

**M30***forward**reverse compliment**Name**E value**Alignment**Motif*

AP-2alphaA_M01047 3.3057e-06

---GCCTNA-----

ANMGCCTNAGGCKN



AP-2alphaA_M01045 4.9051e-05

-----TNAGGC--

NNNSCCTNAGGCNN



ROM_M00700 1.0140e-04

TNAGGC--

TGASGTGG



MAF_M00983 1.7583e-04

--GCCTNA--

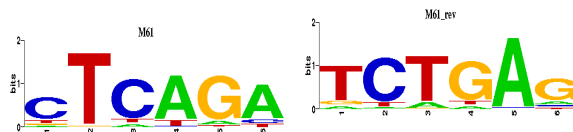
NTGACTCANC



AP-1_M00925 2.3377e-04

-GCCTNA-

TGACTNAN

**M61***forward**reverse compliment**Name**E value**Alignment**Motif*

Stamp Results

12/18/13

AP-1_M00173 5.9859e-06

TCTGAG-----
WNKNAGTCAN

Dde_M00304 2.6114e-05

-CTCAGA-
GCTCAGCC

CDC5_M00361 7.2355e-05

---TCTGAG-
NSCGCTGAGS

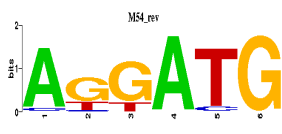
MAF_M00983 1.4714e-04

----CTCAGA
NTGACTCANC

Alx-4_M00619 1.7960e-04

-----CTCAGA
GATTATTCTCAG-

M54

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

PEA3_M00655 8.1511e-08

AGGATG
MGGAWG

Ets_M00971 7.5992e-05

-AGGATG
NAGGAAG

c-Ets-1_M00743 8.0348e-05

-CATCCT
GCTTCK

Skn-1_M00229 1.3777e-04

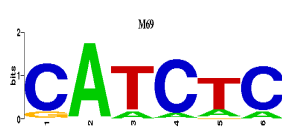
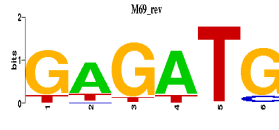
AGGATG-----
NNNATGACAWN

AR_M00481

1.7903e-04

----CATCCT----

AGNACANNNTGTWC

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

Sry-beta_M00666

2.5462e-08

-GAGATG-

AGWGATGC



NIT2_M00142

1.0526e-05

GAGATG

KWGAT-



NF-muE1_M00651

3.6198e-05

GAGATG---

-AGATGGCC



RP58_M00532

1.5908e-04

--GAGATG---

TCCAGATGTTN

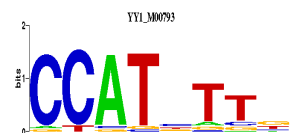
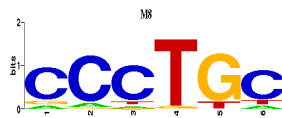
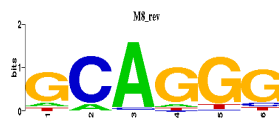


YY1_M00793

2.1650e-04

-GAGATG-

NAANATGG

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

Stamp Results

12/18/13

Ttk_M00009 1.6676e-05

GCAGGG--
GCAGGAC

KAISO_M01119 4.7024e-05

---GCAGGG
NTNGCAGGA

Sp1_M00008 9.7647e-05

--GCAGGG--
RGGCRGGGW

MAZ_M00649 9.9768e-05

CCCTGC--
CCCTCCC

Eve_M00629 1.1430e-04

GCAGGG---
GCNGNSSWN

M9

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

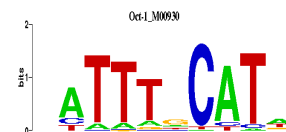
Oct-1_M00342

1.0466e-04

---TTGCAG
NATTTGCAT

Oct-1_M00930

2.6005e-04

---TTGCAG--
NATTTNCATN

Octamer_M00795

3.3577e-04

-CTGCAA---
NATGCAAATN

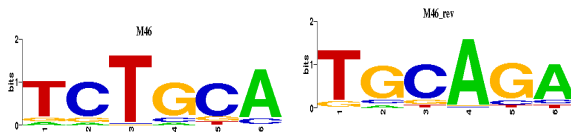
CHOP-C-EBPalph_M00249 3.6168e-04

-----TTGCAG--
GGSNATTGCAYN

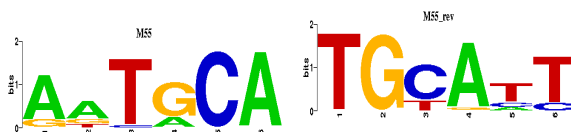
OCT-x_M00210

4.7247e-04

--CTGCAA-----
RTATGCAAATNA

M46*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
LMAF_M01139	2.8172e-04	-TGCAGA- CTGCTGAS	
Nrf-2_M00821	7.1440e-04	-----TCTGCA NNTGACTCAGCA	
Oct-1_M00342	7.2893e-04	-TGCAGA-- ATGCAAATN	
Eve_M00629	8.6525e-04	----TCTGCA NWSSNCNGC-	
TAL1_M00993	8.6529e-04	---TCTGCA CCANCTGNY	

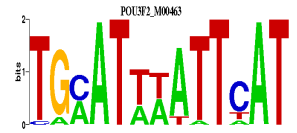
M55*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Staf_M00262	1.6499e-05	-----AATGCA----- NTWCCCANMATGCANYRCGNN	

Oct-1_M00930 2.8482e-05

AATGCA----
NATGNAAATN

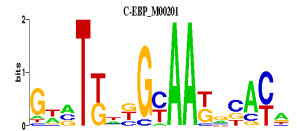
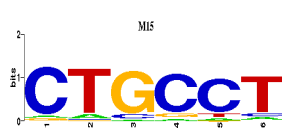
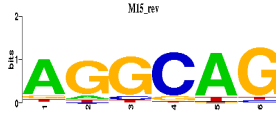
POU3F2_M00463 4.4672e-05

-----AATGCA
ATGAATWAATKCA

Oct-1_M00342 6.8647e-05

----TGCATT
NATTTGCAT-

C-EBP_M00201 7.5153e-05

-----AATGCA--
GWNTKNNGYAAKNNACN**M15***forward**reverse compliment**Name**E value**Alignment**Motif*

SMAD3_M00701 7.2430e-05

AGGCAG--
AGNCAGAC

Ets_M00971 2.0684e-04

-AGGCAG
NAGGAAG

PU.1_M00658 2.3061e-04

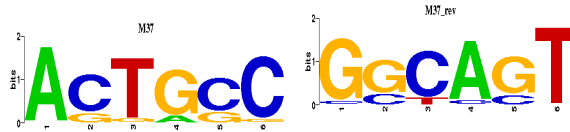
-AGGCAG
GAGGAAG

SMAD4_M00733 3.1987e-04

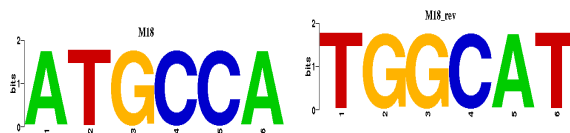
-----CTGCCT--
RGNTGKCTGNMYSN

E2A_M00973 3.8880e-04

AGGCAG--
-RNCAGNT

M37*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MYB_M00773	8.4698e-07	--ACTGCC-- NAACKGNNNN	
LXR_M00766	7.8676e-06	-----ACTGCC----- GGTTACTNNCGGTC	
MYBAS1_M00798	1.3713e-04	GGCAGT---- RNNNGTTRNN	
Gfi1b_M01058	3.1250e-04	GGCAGT----- WGCMGTGATTT	
E2A_M00973	6.2434e-04	GGCAGT- RNCAGNT	

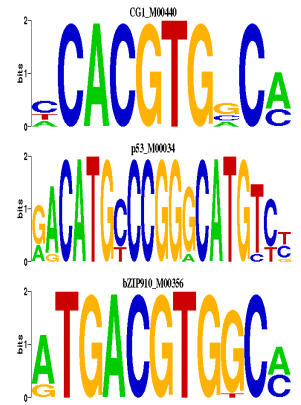
M18*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
HTF_M00538	2.8499e-04	-----TGGCAT----- NNNWNRRNTGACGTGKNNWNWNN	
Oct-1_M00342	3.5713e-04	---TGGCAT NATTGTCAT	

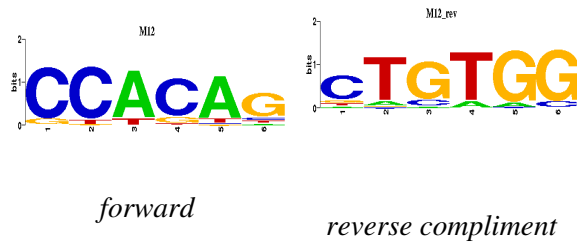
Stamp Results

12/18/13

CG1_M00440	4.7184e-04	-----TGGCAT NCACGTGNCA--
p53_M00034	5.7563e-04	----ATGCCA----- RGACATGCCCGGGCATGTC
bZIP910_M00356	6.8514e-04	ATGCCA----- -KGCCACGTCAT



M12



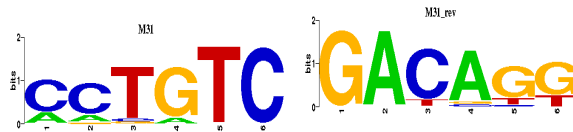
Name	E value	Alignment	Motif
SEF-1_M00214	5.1519e-07	--CCACAG----- RACCACAGATATCCGTGT	
Osf2_M00731	1.1476e-05	-CTGTGG KNTGTGG	
AML_M00769	1.7224e-05	---CTGTGG----- NNNNTGTGGTYWNN	
PEBP_M00984	2.0586e-05	----CCACAG----- NTNACCACARNNNN	
AP-4_M00005	7.8697e-05	----CCACAG----- MNGNCNNCAGCTGNNNN	

M17



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Tal-1beta-ITF-2_M00070	1.8949e-06	-----AYCTGT--- NNNACCATCTGTNN	
Tal-1alpha-E47_M00066	2.1883e-06	-----AYCTGT--- NNNAMCATCTGTNN	
Tal-1beta-E47_M00065	2.3993e-06	-----AYCTGT--- NNNACCATCTGTNN	
MyoD_M00184	2.6839e-06	--AYCTGT- NCANCTGNC	
SEF-1_M00214	2.7074e-06	----ACAGRT----- RACCACAGATATCCGTGT	

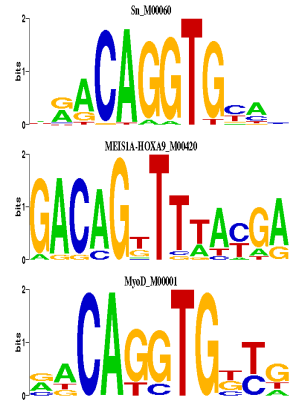
M31*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
E2A_M00973	8.3308e-07	GACAGG- RNCAGNT	
MyoD_M00184	1.8845e-06	GACAGG--- GNCAGNTGN	

Stamp Results

12/18/13

Sn_M00060	8.8610e-06	-----CCTGTC- NKRCACCTGTYN
MEIS1A-HOXA9_M00420	1.0662e-05	-----CCTGTC TCRTAAAMCTGTC
MyoD_M00001	1.3251e-05	-----CCTGTC NRNCACCTGNN



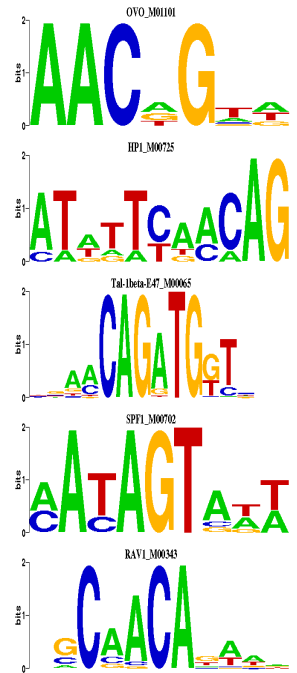
M39



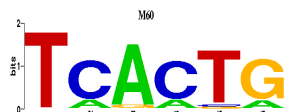
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
OVO_M01101	1.0877e-07	-ACTGTT NNCNGTT	
HP1_M00725	1.6067e-04	-----AACAGT ATWTTCAACAG-	
Tal-1beta-E47_M00065	3.6993e-04	-----ACTGTT-- NNNACCATCTGTNN	
SPF1_M00702	3.8144e-04	---ACTGTT WWTACTATK	
RAV1_M00343	4.1286e-04	--ACTGTT--- NNWNTGTTGCN	

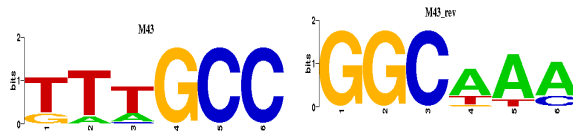


M60



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Gfi1b_M01058	4.7983e-07	--CAGTGA-- WGCMGTGATT	
IRF-1_M00747	2.0346e-05	CAGTGA AANTGA	
ER_M00191	2.0594e-05	-----CAGTGA----- NNNGGTCANNNNNNNNYNN	
LXR_M00647	1.7429e-04	-----CAGTGA----- TGACNNNAGTRACCCC	
IRF_M00972	3.0064e-04	---TCACTG- NTTTCWNTTT	

M43*forward**reverse compliment*

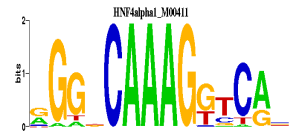
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
PPAR_M00528	6.3938e-06	-----TTTGCC----- TGACCTTTGNCCNNNN	
RFX1_M00626	1.0532e-05	TTTGCC----- KTTGCCTRGTAAAC	

Stamp Results

12/18/13

HNF4alpha1_M00411 1.3670e-05

-----TTTGCC--
NTGACCTTTGNCCY



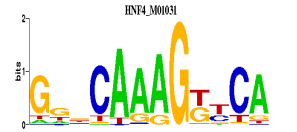
DBP_M00624 1.4990e-05

-TTTGCC
NWN TGC-

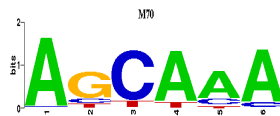


HNF4_M01031 2.9102e-05

-----TTTGCC-
NTGRMCTTTGNNC



M70



forward



reverse compliment

Name

E value

Alignment

Motif

DBP_M00624

1.0532e-05

AGCAAA-
-GCANWN



HNF3alpha_M00724 3.5069e-05

---AGCAAA-
NWRARCAAA



Oct-1_M00342

5.7351e-05

-AGCAAA-
ATGCAAATN



Oct-1_M00930

1.0961e-04

--AGCAAA-
NATGNAAATN



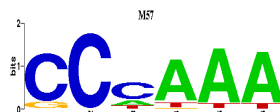
Octamer_M00795

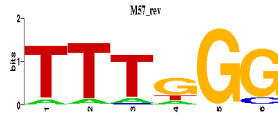
1.2253e-04

--AGCAAA-
NATGCAAATN

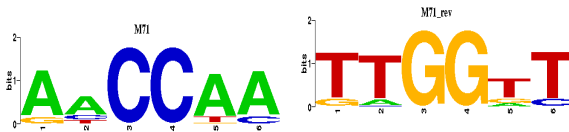


M57



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
LUN-1_M00480	4.2352e-07	-----CCCAAA----- TCCCAAAGTAGCTGGG	<p>Sequence logo for LUN-1_M00480 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is CCCAAGCTTGGGA, with positions 1-4 (CCCA) and 8-10 (TGGGA) being highly conserved.</p>
RREB-1_M00257	6.0590e-07	-----TTTGGG GGGGTGGTTTGGG	<p>Sequence logo for RREB-1_M00257 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is CCCAAAccACCCc, with positions 1-4 (CCCA) and 8-10 (ACCC) being highly conserved.</p>
Ik-1_M00086	3.8617e-05	-----CCCAAA NNNATTCCANN	<p>Sequence logo for Ik-1_M00086 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is GGGAA, with positions 3-5 (GGG) being highly conserved.</p>
Lyf-1_M00141	4.9498e-05	---CCCAAA YCTCCCAA-	<p>Sequence logo for Lyf-1_M00141 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is TTGGGAGA, with positions 1-4 (TTGG) and 7-10 (GAGA) being highly conserved.</p>
MCM1+SFF_M01051	1.0789e-04	-----TTTGGG-- TTRTTTANNTWTTNCCNNWTTNGGNA	<p>Sequence logo for MCM1+SFF_M01051 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is TTTGGG, with positions 1-3 (TTT) and 4-6 (GGG) being highly conserved.</p>

M71*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Zec_M01081	1.3913e-07	--AACCAA---- GCAACCAACCTT	<p>Sequence logo for Zec_M01081 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is AAGGTTGGTTGc, with positions 1-4 (AAGG) and 7-10 (TTGGTTGc) being highly conserved.</p>
Nkx6-1_M00424	6.8665e-07	-----TTGGTT WTTTAATTGNNT	<p>Sequence logo for Nkx6-1_M00424 motif. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The motif is TTTAAATIGTT, with positions 1-4 (TTTAA) and 7-10 (ATIGTT) being highly conserved.</p>

NF-Y_M00185

1.3705e-06

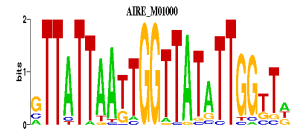
----TTGGTT
NYNATTGGYY



AIRE_M01000

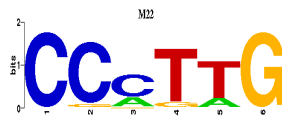
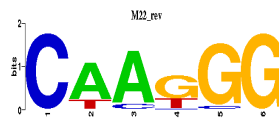
1.4862e-06

-----TTGGTT-----
NTTATTAATTGGTTATATTGGKTN



Grainyhead-Elf-1-NTF-1_M00951 2.3529e-05

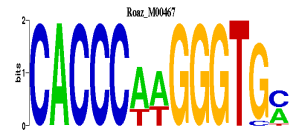
-AACCAA
AAACCRG

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

Roaz_M00467

1.2455e-06

---CCCTTG---
KCACCCTTGGGTG



EBF_M00977

1.3028e-06

---CAAGGG-
NCYCWRGGGA



SF1_M00727

1.5821e-05

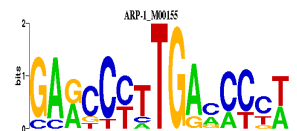
CAAGGG-
CAAGGTC



ARP-1_M00155

3.0019e-05

-----CAAGGG---
WRGGKTCAARGGYTC

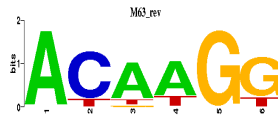


SF1_M01132

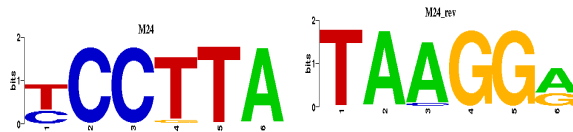
5.3130e-05

-CAAGGG-
NCAAGGTN

**M63**

forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SF1_M00727	1.2169e-05	--CCTTGT GACCTTG--	
SF1_M01132	3.9717e-05	ACAAGG-- NCAAGGTN	
LRH1_M01142	1.8943e-04	--ACAAGG-- NTNCAAGGYN	
RORalpha1_M00156	2.1770e-04	----CCTTGT-- NTGACCTNNWWN	
Roaz_M00467	4.3189e-04	----CCTTGT-- KCACCCTTGGGTG	

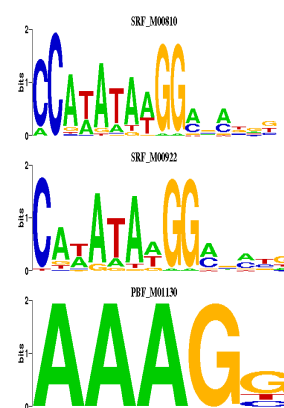
M24*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SRF_M00186	1.2289e-05	-TCCTTA----- NNCCWTATWTGGN	
TFIIA_M00707	2.3356e-05	--TCCTTA-- SNYCCYYNNAK	

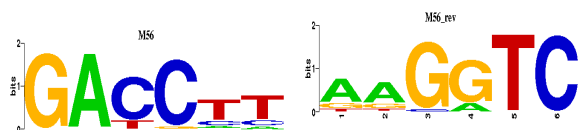
Stamp Results

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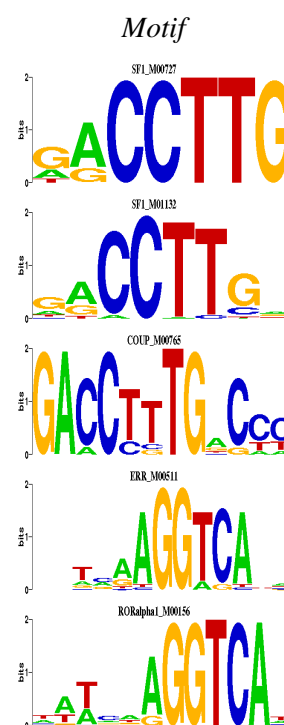
SRF_M00810	5.1501e-05	-----TCCTTA----- NNNNKNCCTTATATGG
SRF_M00922	1.0618e-04	----TCCTTA---- NNKNKCCWTATWTG
PBF_M01130	4.9471e-04	TCCTTA -CCTTT



M56

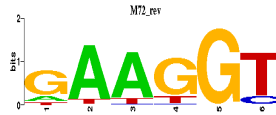
*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
SF1_M00727	5.7136e-09	-AAGGTC CAAGGTC
SF1_M01132	2.1189e-08	--AAGGTC NCAAGGTN
COUP_M00765	1.9040e-07	GACCTT----- GACCTTTGNCCC
ERR_M00511	2.0665e-07	---GACCTT--- NNTGACCTTNNNN
RORalpha1_M00156	2.4995e-07	--GACCTT--- NTGACCTNNWWN

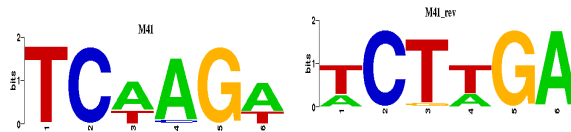


M72



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SF1_M00727	8.2814e-06	GAAGGT- CAAGGTC	
SF1_M01132	2.8000e-05	-GAAGGT- NCAAGGTN	
TBX5_M01044	8.7001e-05	GAAGGT---- -AAGGTGTGA	
ZAP1_M00754	9.1422e-05	ACCTTC---- ACCTTKAGGG	
Zec_M01081	2.4934e-04	-----ACCTTC GCAACCAACCTT-	

M41*forward**reverse compliment*

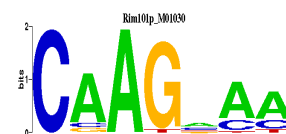
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
TTF1_M00432	2.6267e-05	--TCTTGA- AYACTTGAS	
Evi-1_M00011	5.7866e-05	---TCTTGA TTATCTTG-	

Stamp Results

12/18/13

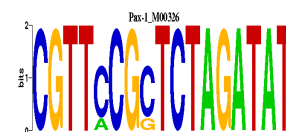
Rim101p_M01030 1.5010e-04

--TCTTGA
TTNCTTG-



Pax-1_M00326 3.9843e-04

---TCAAGA-----
ATATCTAGAGCGGAACG

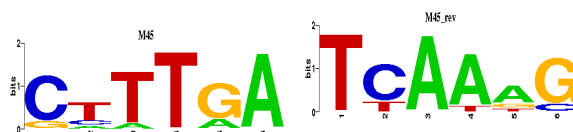


Nkx2-5_M01043 8.9161e-04

TCAAGA---
KSAAGTGRN



M45

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

TCF-4_M00671 2.7015e-09

-TCAAAG
WTCAAAG



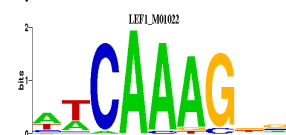
dTCF_M00362 5.4160e-08

CTTTGA----
CTTTGATCTT



LEF1_M01022 6.4465e-08

--CTTTGA-
NNCTTTGAW



HNF4_M00764 1.7653e-07

---TCAAAG---
NGNCAAAGKTC



PPAR_M00762 1.8161e-07

----CTTTGA--
TGACCTTTGNCC

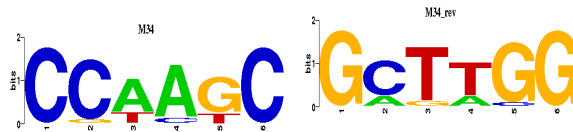


M25



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
AR_M00962	1.1602e-04	--GTGCTY NNNTGCTC	
core-binding_M00722	1.7608e-04	-RAGCAC WNACCAC	
Nkx2-2_M00485	3.3484e-04	RAGCAC--- AASYACTTA	
c-Myc_M01145	3.9507e-04	RAGCAC----- GAGCACGTGGT	
Gfi1b_M01058	4.2890e-04	----GTGCTY- WGCMGTGATTT	

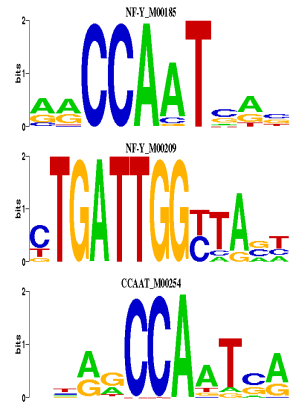
M34*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
PacC_M00247	2.2228e-05	-----GCTTGG----- NNNNNNKCYTGGCNGN	
MIF-1_M00279	1.7497e-04	-----CCAAGC----- SCNGTTRCCWGWCAACN	

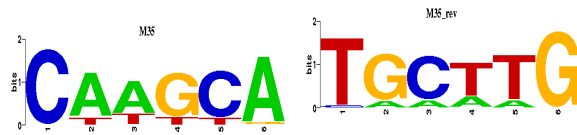
Stamp Results

12/18/13

NF-Y_M00185	3.3686e-04	--GCTTGG-- NYNATTGGYY
NF-Y_M00209	4.0062e-04	--GCTTGG----- CTGATTGGYTANN
CCAAT_M00254	6.3807e-04	-GCTTGG----- TSATTGGYYNN



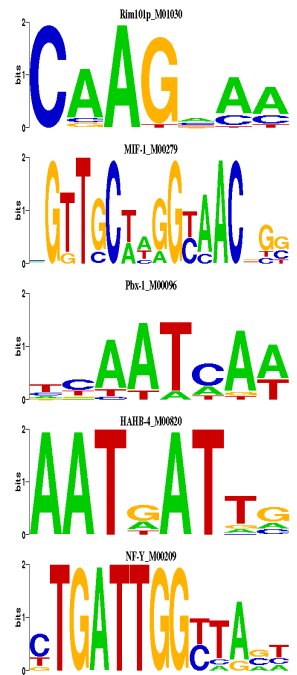
M35



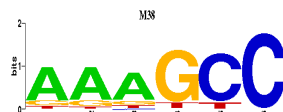
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Rim101p_M01030	4.5988e-06	-TGCTTG TTNCTTG	
MIF-1_M00279	1.0987e-04	-----CAAGCA--- SCNGTTRCCWWGCAACN	
Pbx-1_M00096	2.4774e-04	-TGCTTG- TTGATTRN	
HAHB-4_M00820	2.6374e-04	CAAGCA-- NAATYATT	
NF-Y_M00209	8.4483e-04	-----CAAGCA- NNTARCCAATCAG	

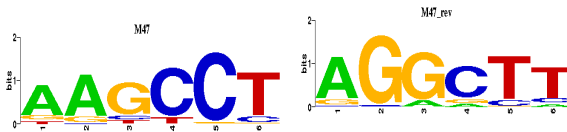


M38



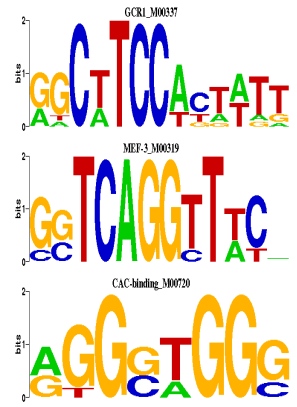
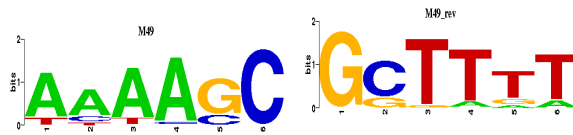
forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
c-Rel_M00053	7.5724e-06	--AAAGCC-- GGAAWNYYCC	
PBF_M01130	4.4307e-04	GGCTTT -CCTTT	
LEF1_M00805	5.0086e-04	-AAAGCC CAAAG--	
Barbie_M00238	6.1105e-04	-----GGCTTT-- CMNNCNSCTTTNNN	
dI_M00043	8.0806e-04	----AAAGCC NGGAAAAACC	

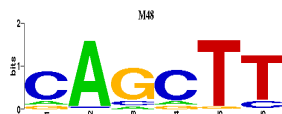
M47*forward**reverse compliment*

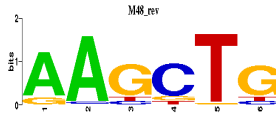
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
HSF_M00641	2.9311e-04	-AAGCCT----- GAARCYNCKNGA	
KR_M01089	6.0396e-04	----AGGCTT- NNAAAGGGTNN	

GCR1_M00337	1.5387e-03	-----AAGCCT AAWAGTGGAAGCC-
MEF-3_M00319	2.1038e-03	--AAGCCT---- NGWAACCTGASC
CAC-binding_M00720	3.5451e-03	--AAGCCT CCCASCY

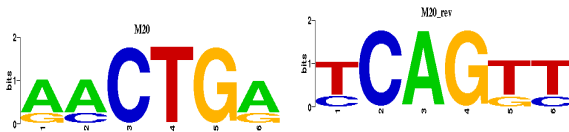
**M49***forward**reverse compliment*

Name	E value	Alignment	Motif
Barbie_M00238	1.9746e-06	--AAAAGC----- NNNAAAGSNGNKG	
IRF-1_M00062	5.5807e-06	AAAAGC----- AAAAGYGAAACC	
IRF-2_M00063	8.0964e-06	-----GCTTTT RSTTTTCRCTTTT	
dI_M00043	1.4857e-04	----AAAAGC NGGAAAAACC	
Dof_M01136	1.5451e-04	--GCTTTT-- NNNCTTTTTN	

M48

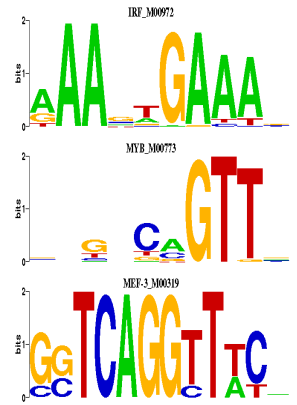
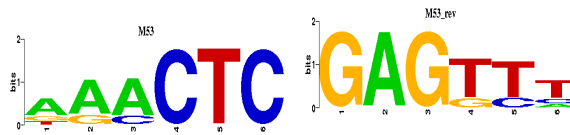
forward*reverse compliment*



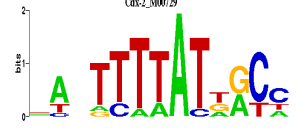

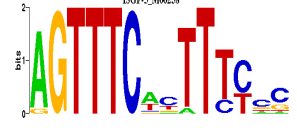
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Barbie_M00238	1.0693e-06	----CAGCTT---- CMNNCNSCTTTNNN	<p>Sequence logo for Barbie_M00238. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is AAGCTG, with 'A' at position 1, 'A' at position 2, 'G' at position 3, 'C' at position 4, 'T' at position 5, and 'G' at position 6.</p>
LBP-1_M00644	2.1626e-06	-CAGCTT SCAGCN-	<p>Sequence logo for LBP-1_M00644. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is GCTG, with 'G' at position 1, 'C' at position 2, 'T' at position 3, and 'G' at position 4.</p>
AP-4_M00927	2.4130e-05	-AAGCTG- RCAGCTGN	<p>Sequence logo for AP-4_M00927. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is CAGCTG, with 'C' at position 1, 'A' at position 2, 'G' at position 3, 'C' at position 4, 'T' at position 5, and 'G' at position 6.</p>
HEB_M00698	4.1130e-05	AAGCTG- CAGCWGG	<p>Sequence logo for HEB_M00698. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is CCAGCTG, with 'C' at position 1, 'C' at position 2, 'A' at position 3, 'G' at position 4, 'C' at position 5, and 'T' at position 6.</p>
AP-4_M00175	5.4566e-05	--AAGCTG- NNCAGCTGN	<p>Sequence logo for AP-4_M00175. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is CAGCTG, with 'C' at position 1, 'A' at position 2, 'G' at position 3, 'C' at position 4, 'T' at position 5, and 'G' at position 6.</p>

M20*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
IRF-1_M00747	3.1514e-06	AACTGA AANTGA	<p>Sequence logo for IRF-1_M00747. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is TCAGTT, with 'T' at position 1, 'C' at position 2, 'A' at position 3, 'G' at position 4, 'T' at position 5, and 'T' at position 6.</p>
MYB_M00913	1.0269e-04	--TCAGTT NNCNGTT	<p>Sequence logo for MYB_M00913. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows positions 1 through 6. The motif is AACG, with 'A' at position 1, 'A' at position 2, 'C' at position 3, and 'G' at position 4.</p>

IRF_M00972	2.1635e-04	---TCAGTT-- NTTTCWNTTT
MYB_M00773	2.5418e-04	-AACTGA--- NAACKGNNNN
MEF-3_M00319	2.6994e-04	----AACTGA-- NGWAACCTGASC

**M53***forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
PXR_M01153	4.0517e-05	-AAACTC TGAACNT	
ICSBP_M00699	2.6507e-04	GAGTTT----- CAGTTTCAYTT	
Cdx-2_M00729	3.9531e-04	-----AAACTC NGYNATAAAANTN	
MEIS1A-HOXA9_M00420	4.9935e-04	--GAGTTT----- GACAGKTTTAYGA	
ISGF-3_M00258	5.3212e-04	-----AAACTC GNGAAANWGAAACT-	

M23

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

STAT5A_M00457

2.7288e-04

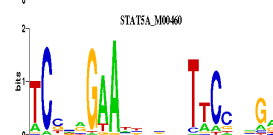
-----AGAATT
NRNTTCCNRGAANY



STAT5A_M00460

3.0847e-04

-----AATTCT-----
YNCNNGGAANNNNNTTCNNNGA



Alx-4_M00619

3.4742e-04

---AATTCT---
GATTATTCTCAG



PEND_M01015

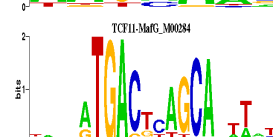
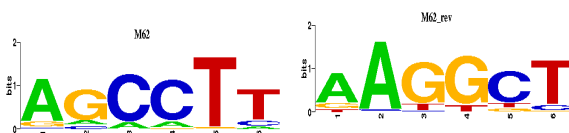
3.8291e-04

AATTCT-
ACTTCTT



TCF11-MafG_M00284 5.8014e-04

-----AATTCT-
NNNNATGACNCAGCANNTNNG

**M62***forward**reverse compliment**Name**E value**Alignment**Motif*

LRH1_M01142

3.1879e-04

-AGCCTT-----
NRRCCTTGNAN



PBF_M01130

5.2203e-04

AGCCTT-
--CCTTT



Stamp Results

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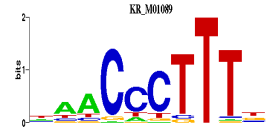
ARP-1_M00155 5.8030e-04

-----AAGGCT--
WRGGKTCAARGGYTC



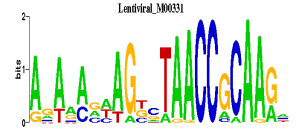
KR_M01089 6.6787e-04

---AAGGCT--
NNAAAGGGTNN

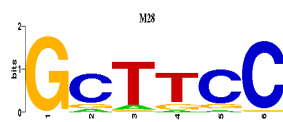


Lentiviral_M00331 1.3686e-03

-----AGCCTT-----
NCTTGCGGTTANNCTNNTYTNT



M28



forward



reverse compliment

Name

E value

Alignment

Motif

GCR1_M00046 7.9996e-09

--GGAAGC
GWGGAAGC



c-Ets-1_M00743 9.9441e-09

-GGAAGC
MGGAAGC



GCR1_M00337 3.7066e-07

-----GGAAGC--
AAWAGTGGAAGCC



PU.1_M00658 1.1890e-05

GCTTCC--
-CTTCCTC

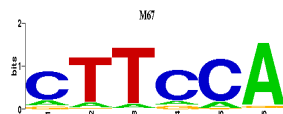


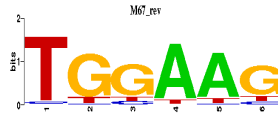
Ets_M00971 1.5273e-05

--GGAAGC
NAGGAAG-

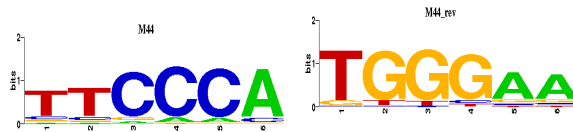


M67



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
GCR1_M00046	2.9340e-07	-TGGAAG- GWGGAAGC	
GCR1_M00337	5.4761e-07	-----TGGAAG-- AAWAGTGGAAGCC	
c-Ets-1_M00743	1.0014e-05	-CTTCCA GCTTCCK	
PU.1_M00658	1.4792e-05	CTTCCA- CTTCCTC	
Ets_M00971	1.5491e-05	-TGGAAG NAGGAAG	

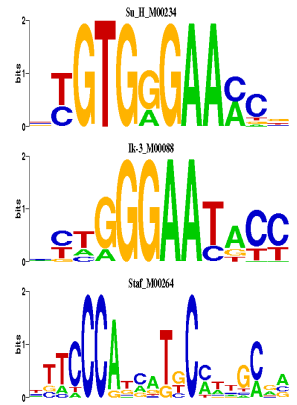
M44*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
RBP-Jkappa_M01112	3.4772e-08	---TGGGAA- NCGTGGGAAM	
Ik-1_M00086	2.2351e-07	----TTCCCA-- NNNATTCCCAN	

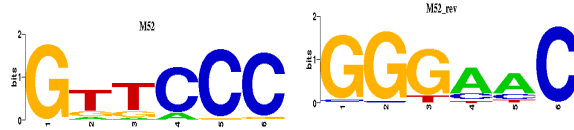
Stamp Results

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Su_H_M00234	2.7962e-07	---TGGGAA--- NYGTGGGAAMCN
Ik-3_M00088	5.3601e-07	----TTCCCA-- GGTATTCCCNRN
Staf_M00264	1.9756e-06	-----TGGGAA- NNGCNNKGNANNNTGGGANN



M52

*forward**reverse compliment*

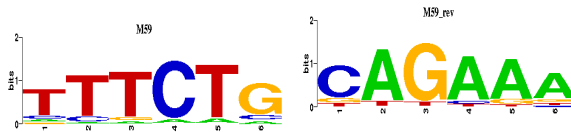
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
RBP-Jkappa_M01112	5.4594e-06	----GGGAAC NCGTGGGAAM	
Su_H_M00234	1.0121e-05	--GTTCCC---- NGKTTCCCACRN	
ANT_M00501	1.0202e-05	---GTTCCC--- ACANWTCCCRAKG	
E2F-1-DP-2_M00737	1.6411e-04	--GGGAAC GCGGGAA-	
STAT1_M00492	1.6491e-04	GGGAAC- SGGAANT	

M50



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
HOXA7_M01108	1.8679e-06	AGATTC AGATTG	
TEIL_M00502	4.9792e-05	AGATTC- AGRTWCA	
HSF2_M00147	1.1835e-04	GAATCT--- GAANNWTCN	
NF-kappaB_M00051	2.2675e-04	--GAATCT- GGGRATCCC	
MYB80_M01052	5.7366e-04	---AGATTC- NGNATATTCC	

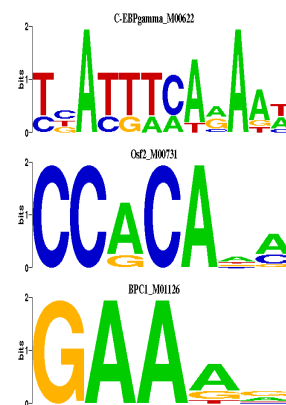
M59*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Rim101p_M01030	5.7997e-05	TTTCTG- TTNCTTG	
STE11_M01005	1.2858e-04	TTTCTG----- TTTCTTTGTTC	

Stamp Results

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C-EBPgamma_M00622 3.1139e-04

TTTCTG-----
WTTYTGAAATNA

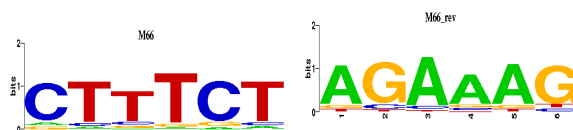
Osf2_M00731 3.1371e-04

-CAGAAA
CCACANM

BPC1_M01126 4.8360e-04

-TTTCTG
NTTTC--

M66

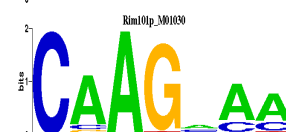
*forward**reverse complement**Name**E value**Alignment**Motif*

BPC1_M01126

2.1904e-06

CTTTCT
NTTTC-

Rim101p_M01030 5.2296e-05

CTTTCT--
-TTNCTTG

Lentiviral_M00318 8.3141e-05

CTTTCT-
CTTTATT

STE11_M01005 1.2536e-04

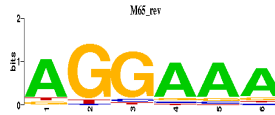
CTTTCT-----
-TTTCTTTGTTC

Ets_M00971 2.0257e-04

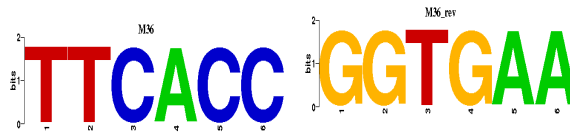
-AGAAAG
NAGGAAG

M65



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
Helios_M01004	7.6911e-08	--TTTCCT-- NTTTCCTWN	
NF-AT_M00302	9.3780e-07	---TTTCCT-- NNNTTTCWNN	
Elf-1_M00746	1.3039e-06	-TTTCCT---- AYTTCCTCTN	
MCM1+SFF_M01051	2.0296e-06	-----TTTCCT----- TTRTTTANNTWTTNCCNNWTTNGNA	
STAT5B_M00459	6.1919e-06	-----AGGAAA-- NRNTTCCNGGAWN	

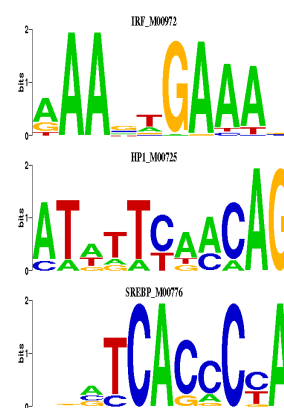
M36*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
SREBP-1_M00221	6.7282e-05	----GGTGAA GTGGGGTGAT	
FXR_M00767	9.7240e-05	-----TTCACC RGGTYATTNACC	

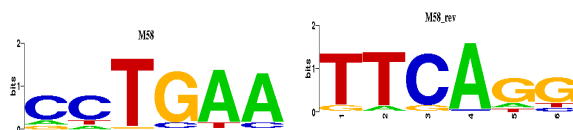
Stamp Results

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IRF_M00972	1.3211e-04	--TTCACC-- NTTTCWNTTT
HP1_M00725	1.7014e-04	--GGTGAA--- CTGTTGAAWAT
SREBP_M00776	1.7534e-04	---GGTGAA-- TRGGGTGANN



M58

*forward**reverse compliment*

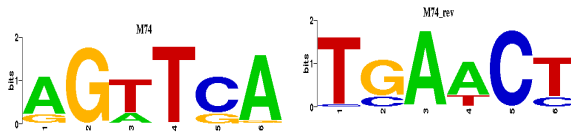
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MEF-3_M00319	2.1433e-04	-----CCTGAA- NGWAACCTGASC	
Nrf-2_M00108	3.5777e-04	---TTCAGG SNCTTCCGG	
VDR_M00966	3.9365e-04	-----TTCAGG----- ANNNGGKTCANNARGKNCA	
STE12_M00664	1.2420e-03	CCTGAA-- --TGAAAC	
GABP_M00341	1.3324e-03	-----TTCAGG YGCNCTTCCGG	

M68



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
HNF4_M01032	9.3287e-06	ATGANC -TGRMC	
RXR_M01152	1.5577e-05	ATGANC-- -TGAAC TN	
PXR_M01153	1.7821e-05	ATGANC-- -TGAAC TN	
VDR_M00966	4.0943e-05	-----GNTCAT ANNNGGKTCANNARGKNCA Y	
VDR_M00961	2.6482e-04	--GNTCAT-- NGGTTCA NNN	

M74*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
RXR_M01152	5.0326e-09	TGAACT- TGAACTN	
PXR_M01153	1.3358e-08	TGAACT- TGAACTN	

Stamp Results

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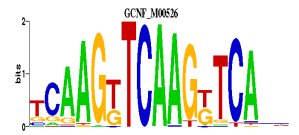
HNF4alpha_M00638 1.0121e-06

TGAACT-----
TGAMCTTTGMMN



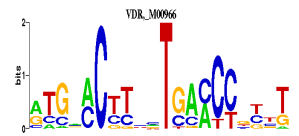
GCNF_M00526 7.0252e-06

-----TGAACT---
NNTGAMCTTGAACTTGA



VDR,_M00966 4.4850e-05

-----AGTTCA-
ANNNGGKTCANNARGKNCAY



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