

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

Input file: 100 motifs loaded

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

Multiple Alignment=IR, Tree=UPGMA, Matching against: user-defined

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)

```

0:      -----GGGGNGGG-----
1:      -----GGGGGRGG-----
2:      -----GGGARGGG-----
3:      -----GGAGGNNG-----
4:      -----CCMCACCC-----
5:      -----GCNGCCGC-----
6:      -----GGNGGCGG-----
7:      -----GGGNGGAG-----
8:      -----GGAGCAGCAG-----
9:      -----CMGGAAGTG-----
10:     -----GGMGGAGC-----
11:     -----CGCNGCGCA-----
12:     -----GCGCANGC-----
13:     -----CGCGCGCGC-----
14:     -----AGGARGAG-----
15:     -----CAGCAGCWG-----
16:     -----CNGCAGCCNC-----
17:     -----CACACACAC-----
18:     -----GCGSAGGC-----
19:     -----GAGGCNNG-----
20:     -----ANCAGCAGCT-----
21:     -----GCAGNNNCTG-----
22:     -----GCAGSCGC-----

```

Stamp Results

11/22/15

```

23: -----CAGCCCAGCCCA
24: -----AGGCAGGAAG-----
25: -----GGGNAGGG-----
26: -----GGNAGGAG-----
27: -----GGRGGGGG-----
28: -----CCNCAGCC-----
29: -----GCGGNGCC-----
30: ----AGCTGGAGCTGG-----
31: -----GCGSGGSG-----
32: -----CCACNCCC-----
33: -----SAAGATGGCG---
34: ----GCNGGGAG-----
35: -----AGCAGAGC-----
36: ----GCAGCAGGAG-----
37: -----CCCASCTC-----
38: ----CCGGARGC-----
39: -----GGNAGCTG-----
40: ----GGAGNAG-----
41: ----CAGAGNAG-----
42: -----GCAGAGGCAGAG-
43: ----CTGNGCAG-----
44: ----CAGGCAGCCA-----
45: -----SCGGAGCCNG-----
46: -----CCAGGCT-----
47: -----RGAGRRGR-----
48: -----SCGCAGCCNC-----
49: --CNGGAAGCNG-----
50: -----GGNAGAGG-----
51: -CTGNNNNNCAG-----
52: -----GCNGGAGG-----
53: ----AGCTGCAGCTGC-----
54: -----GAGCASAG-----
55: ----CCAGGNAG-----
56: ----GGGGCGGR-----
57: ----GAGGGGAG-----
58: -----NCCAGCCCNG-----
59: -----GGAAGNGA-----
60: -----GGAGGGAG-----
61: -----CTGSAGAG-----
62: -----CCCAGSTC-----
63: CTGNNNNNNNCAG-----
64: -----TGGAGCTGGAGC--
65: -----GGARGTGG-----

```

Stamp Results

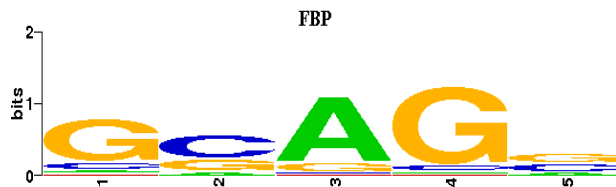
11/22/15

```

66: -----RRRRRRRR-----
67: -----CAGAGAGG-----
68: ----CCCAGNAG-----
69: ---CTGNNNCAG-----
70: -----CTGSAGGC-----
71: --CCAGAGCCAGAG-----
72: ---AAAAAAA-----
73: -----CAGRGAAG-----
74: -----GGCGNGGC-----
75: -----NAGCAGCCNC-----
76: ----CCNGGAGC-----
77: -----CCCASCCT-----
78: -----CGCRYGCG-----
79: -----CTSAGCCC-----
80: ----AGAGAGAG-----
81: ----GCCGGRAG-----
82: ----GARGCAGC-----
83: -----RGRRGRNG-----
84: -----AGGANAGG-----
85: ----GAGRGAGG-----
86: -----CNCAGCTCNG-----
87: -----GCAGARGG-----
88: -----GCCANGGC-----
89: ----AGGGCNGG-----
90: --GTGACGTCAC-----
91: -----CTSAGGCT-----
92: ----GGGGCGSG-----
93: ----CAGGAAGGAA-----
94: -----GTCACGTGAC-----
95: ----TCCCCAGC-----
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97: ----GGGAARGG-----
98: ----GCCAGSCC-----
99: ----GGCCASAG-----

```

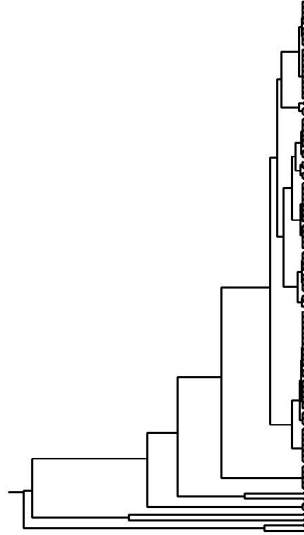
Familial Profile:
(click for matrix)



Motif Tree

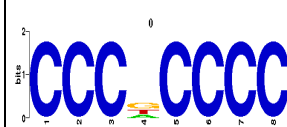
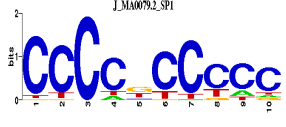
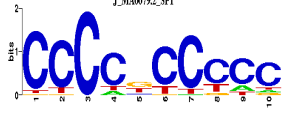
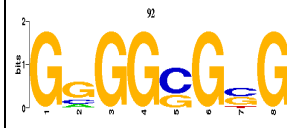
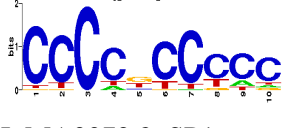
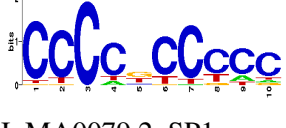
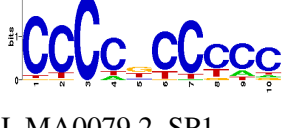
Tree (drawn by **Phylip**)

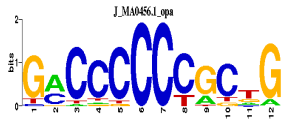
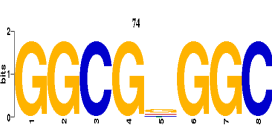
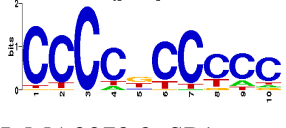
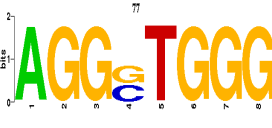
[Click here for Newick-format tree](#) (viewable with **MEGA**)

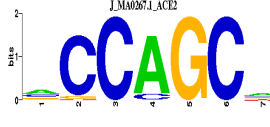


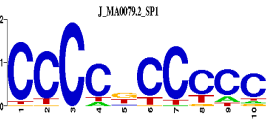
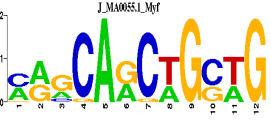
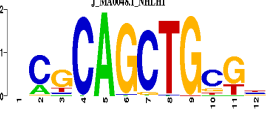
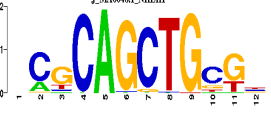
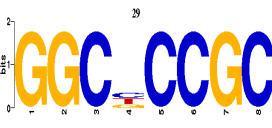
Input Motif

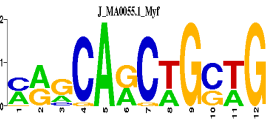
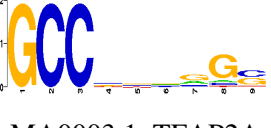
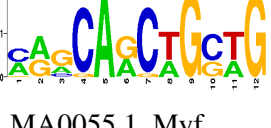
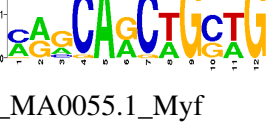
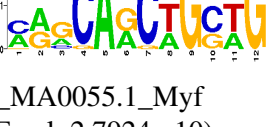
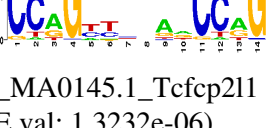
Best match in
user-defined

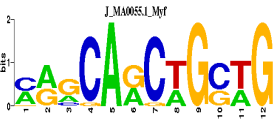
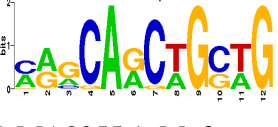
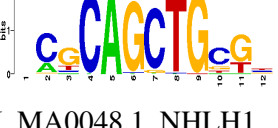
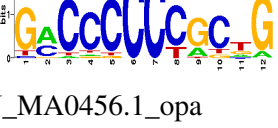
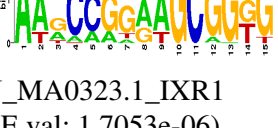
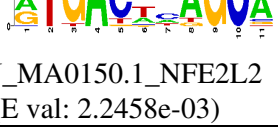
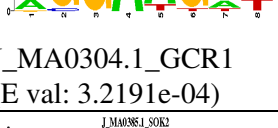
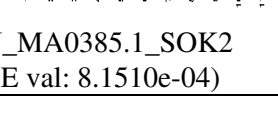
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 92	 J_MA0079.2_SP1 (E val: 2.9117e-08)
 19	 J_MA0079.2_SP1 (E val: 5.5759e-07)
 89	 J_MA0079.2_SP1 (E val: 3.4119e-06)
 4	 J_MA0039.2_Klf4 (E val: 2.9608e-10)
 32	 J_MA0039.2_Klf4 (E val: 5.1806e-08)

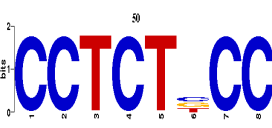
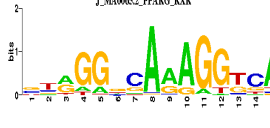
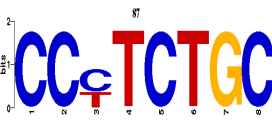
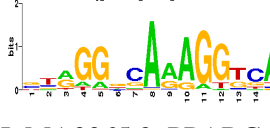
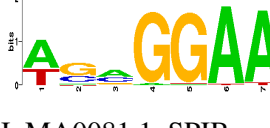
 <u>31</u>	 J_MA0456.1_opa (E val: 2.4208e-07)
 <u>74</u>	 J_MA0039.2_Klf4 (E val: 1.7152e-09)
 <u>23</u>	 J_MA0039.2_Klf4 (E val: 2.0285e-05)
 <u>58</u>	 J_MA0079.2_SP1 (E val: 1.0690e-04)
 <u>77</u>	 J_MA0039.2_Klf4 (E val: 3.2270e-05)
 <u>28</u>	 J_MA0048.1_NHLH1 (E val: 1.3242e-04)
 <u>95</u>	 J_MA0344.1_NHP10 (E val: 7.2292e-09)
 <u>34</u>	 J_MA0267.1_ACE2 (E val: 3.6991e-04)

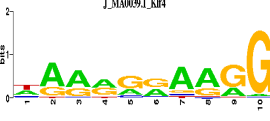
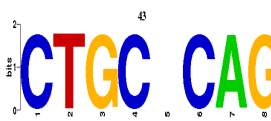
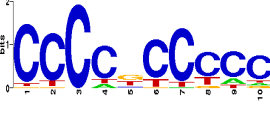
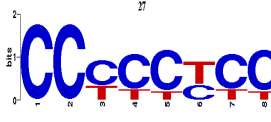
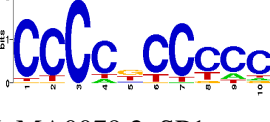
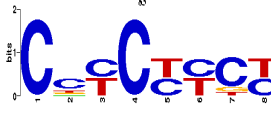
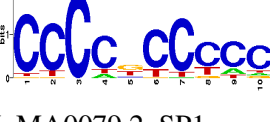
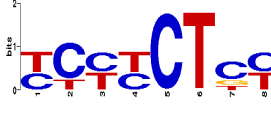
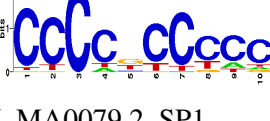
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 62	 J_MA0267.1_ACE2 (E val: 6.5367e-04)
 86	 J_MA0048.1_NHLH1 (E val: 2.2846e-04)
 68	 J_MA0402.1_SWI5 (E val: 2.3484e-05)
 33	 J_MA0373.1_RPN4 (E val: 1.9891e-05)
 88	 J_MA0368.1_RIM101 (E val: 1.2935e-04)
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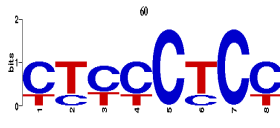
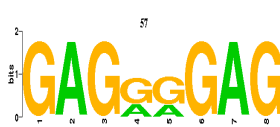
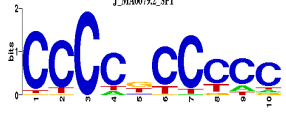
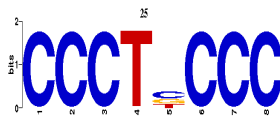
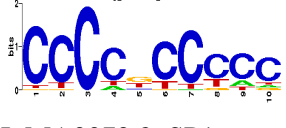
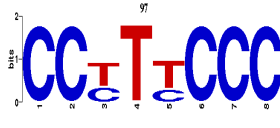
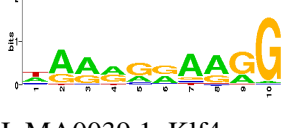
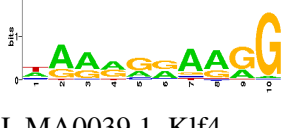
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 <u>16</u>	 J_MA0055.1_Myf (E val: 3.4019e-07)
 <u>75</u>	 J_MA0055.1_Myf (E val: 5.2646e-07)
 <u>48</u>	 J_MA0048.1_NHLH1 (E val: 2.0265e-07)
 <u>22</u>	 J_MA0048.1_NHLH1 (E val: 9.1977e-06)
 <u>29</u>	 J_MA0399.1_SUT1 (E val: 3.3659e-06)
 <u>45</u>	 J_MA0213.1_brk (E val: 4.5091e-05)
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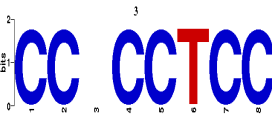
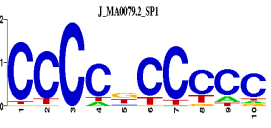
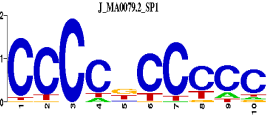
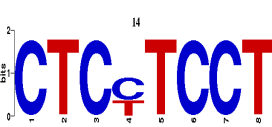
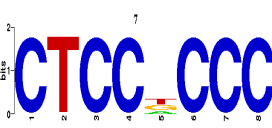
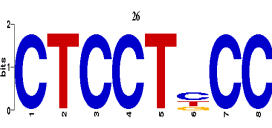
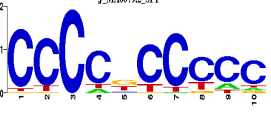
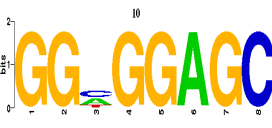
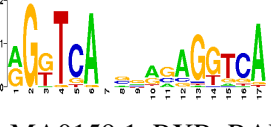
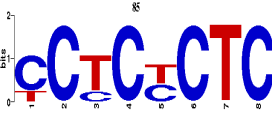
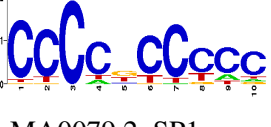
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 <u>46</u>	 J_MA0344.1_NHP10 (E val: 1.1652e-03)
 <u>91</u>	 J_MA0003.1_TFAP2A (E val: 2.1377e-03)
 <u>8</u>	 J_MA0055.1_Myf (E val: 2.7116e-05)
 <u>36</u>	 J_MA0055.1_Myf (E val: 1.0922e-08)
 <u>15</u>	 J_MA0055.1_Myf (E val: 3.4895e-10)
 <u>20</u>	 J_MA0055.1_Myf (E val: 2.7924e-10)
 <u>30</u>	 J_MA0145.1_Tcfcp211 (E val: 1.3232e-06)

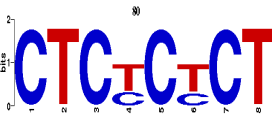
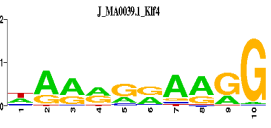
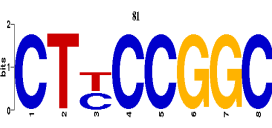
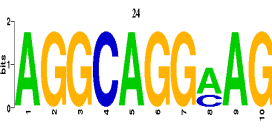
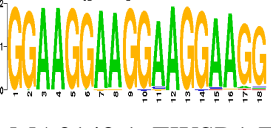
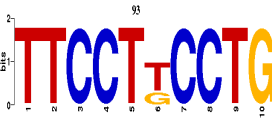
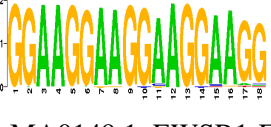
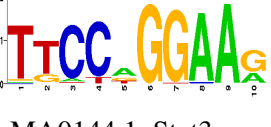
 <u>53</u>	 J_MA0055.1_Myf (E val: 5.3646e-09)
 <u>64</u>	 J_MA0055.1_Myf (E val: 2.4788e-04)
 <u>39</u>	 J_MA0048.1_NHLH1 (E val: 9.6698e-06)
 <u>52</u>	 J_MA0456.1_opa (E val: 1.6063e-05)
 <u>76</u>	 J_MA0323.1_IXR1 (E val: 1.7053e-06)
 <u>61</u>	 J_MA0150.1_NFE2L2 (E val: 2.2458e-03)
 <u>70</u>	 J_MA0304.1_GCR1 (E val: 3.2191e-04)
 <u>96</u>	 J_MA0385.1_SOK2 (E val: 8.1510e-04)

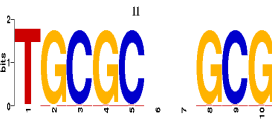
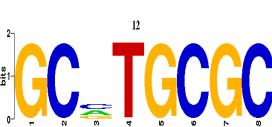
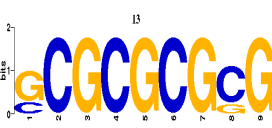
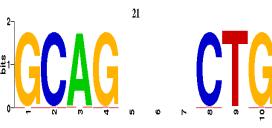
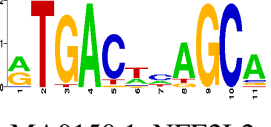
 35	 J_MA0287.1_CUP2 (E val: 7.1974e-04)
 54	 J_MA0326.1_MAC1 (E val: 5.6995e-05)
 50	 J_MA0065.2_PPARG_RXR (E val: 5.4125e-06)
 87	 J_MA0065.2_PPARG_RXR (E val: 1.0442e-04)
 42	 J_MA0081.1_SPIB (E val: 5.8925e-04)
 71	 J_MA0213.1_brk (E val: 6.5288e-04)
 79	 J_MA0283.1_CHA4 (E val: 2.1230e-04)
 99	 J_MA0332.1_MET28 (E val: 2.0201e-07)

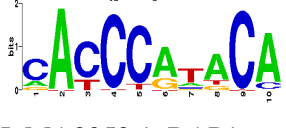
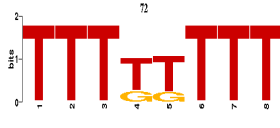
 41	 J_MA0081.1_SPIB (E val: 6.0164e-04)
 73	 J_MA0039.1_Klf4 (E val: 6.2506e-05)
 43	 J_MA0320.1_IME1 (E val: 1.9836e-03)
 1	 J_MA0079.2_SP1 (E val: 1.6318e-08)
 27	 J_MA0079.2_SP1 (E val: 1.1861e-06)
 83	 J_MA0079.2_SP1 (E val: 4.4487e-06)
 47	 J_MA0079.2_SP1 (E val: 5.4987e-04)
 66	 J_MA0039.1_Klf4 (E val: 9.8066e-08)

 60	 J_MA0080.2_SPI1 (E val: 1.3113e-04)
 57	 J_MA0366.1_RGM1 (E val: 1.0969e-05)
 2	 J_MA0079.2_SPI1 (E val: 2.5919e-07)
 25	 J_MA0079.2_SPI1 (E val: 2.2554e-09)
 97	 J_MA0039.1_Klf4 (E val: 3.2432e-06)
 84	 J_MA0039.1_Klf4 (E val: 7.9685e-06)
 59	 J_MA0062.1_GABPA (E val: 1.6580e-06)
 65	 J_MA0062.2_GABPA (E val: 2.1180e-06)

 <u>3</u>	 J_MA0079.2_SP1 (E val: 4.4350e-08)
 <u>40</u>	 J_MA0079.2_SP1 (E val: 2.8192e-06)
 <u>14</u>	 J_MA0062.1_GABPA (E val: 6.1443e-06)
 <u>7</u>	 J_MA0283.1_CHA4 (E val: 1.2707e-07)
 <u>26</u>	 J_MA0079.2_SP1 (E val: 1.2714e-05)
 <u>10</u>	 J_MA0283.1_CHA4 (E val: 3.7585e-08)
 <u>67</u>	 J_MA0159.1_RXR_RAR_D (E val: 9.9319e-04)
 <u>85</u>	 J_MA0079.2_SP1 (E val: 1.8019e-04)

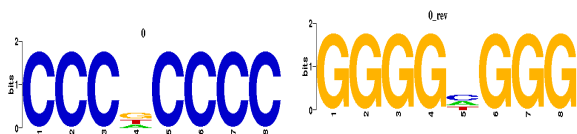
 80	 J_MA0039.1_Klf4 (E val: 5.4942e-04)
 9	 J_MA0062.2_GABPA (E val: 1.0525e-13)
 38	 J_MA0026.1_Eip74EF (E val: 8.2441e-10)
 49	 J_MA0026.1_Eip74EF (E val: 2.5298e-09)
 81	 J_MA0323.1_IXR1 (E val: 1.5168e-09)
 24	 J_MA0149.1_EWSR1-FLI (E val: 1.9717e-09)
 93	 J_MA0149.1_EWSR1-FLI (E val: 1.5064e-10)
 55	 J_MA0144.1_Stat3 (E val: 1.7300e-09)

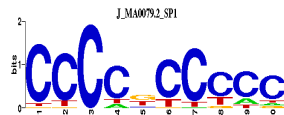
 11	 J_MA0162.1_Egr1 (E val: 4.2887e-03)
 12	 J_MA0162.1_Egr1 (E val: 4.2077e-04)
 18	 J_MA0283.1_CHA4 (E val: 1.5636e-04)
 13	 J_MA0375.1_RSC30 (E val: 1.6367e-08)
 78	 J_MA0375.1_RSC30 (E val: 6.7717e-05)
 21	 J_MA0055.1_Myf (E val: 2.6386e-04)
 69	 J_MA0150.1_NFE2L2 (E val: 1.8347e-02)
 90	 J_MA0018.2_CREB1 (E val: 3.0674e-12)

 94	 J_MA0409.1_TYE7 (E val: 2.4158e-10)
 51	 J_MA0332.1_MET28 (E val: 3.3232e-01)
 63	 J_MA0332.1_MET28 (E val: 3.6932e-01)
 17	 J_MA0359.1_RAP1 (E val: 4.7787e-05)
 72	 J_MA0277.1_AZF1 (E val: 1.6674e-07)

Motif Similarity Matches

0

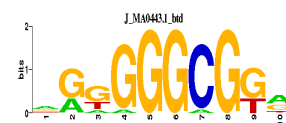
*forward**reverse complement*

Name	E value	Alignment	Motif
J_MA0079.2_SP1	5.4174e-11	-GGGGNNGG- GGGGNNGGG	

Stamp Results

11/22/15

J_MA0443.1_btd 8.8495e-08

CCCNCCCC--
YCCGCCCMCN

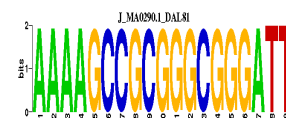
J_MA0450.1_hkb 1.7327e-06

-CCCNCCCC
TCACGCCCM

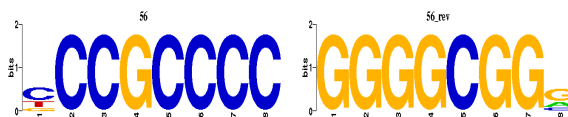
J_MA0039.2_Klf4 2.9486e-06

--CCCNCCCC
GCCMCRCN

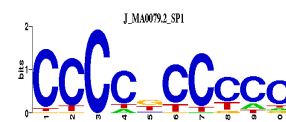
J_MA0290.1_DAL81 6.3836e-06

---CCCNCCCC-----
AATCCCGCCCGCGCTTTT

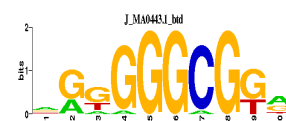
56

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

J_MA0079.2_SP1 9.0585e-11

-GGGGCGGR-
GGGGGNGGGG

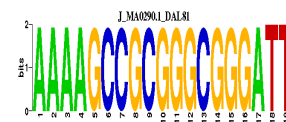
J_MA0443.1_btd 7.4810e-10

YCCGCCCC--
YCCGCCCMCN

J_MA0450.1_hkb 2.4560e-07

-YCCGCCCC
TCACGCCCM

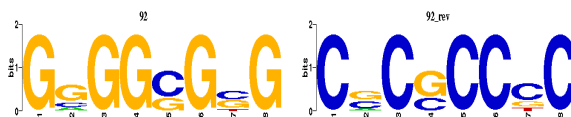
J_MA0290.1_DAL81 9.1251e-07

---YCCGCCCC-----
AATCCCGCCCGCGCTTTT

J_MA0410.1_UGA3 5.5406e-06

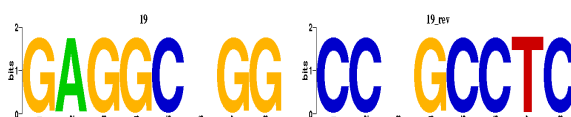
GGGGCGGR-
-NGGCGGGA

92

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.9117e-08	-GGGGCGSG- GGGGGNGGGG	
J_MA0450.1_hkb	6.3804e-07	-CSCGCCCC TCACGCCCM	
J_MA0123.1_abi4	1.6891e-06	-GGGGCGSG- NGNNGCRSCG	
J_MA0443.1_btd	2.0078e-06	CSCGCCCC-- YCCGCCCMCN	
J_MA0290.1_DAL81	5.7566e-05	---CSCGCCCC----- AATCCCGCCCGCGGCTTTT	

19

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	5.5759e-07	-GAGGCNGG- GGGGGNGGGG	
J_MA0410.1_UGA3	1.2565e-05	-CCNGCCTC TCCCGCCN-	

Stamp Results

11/22/15

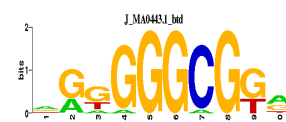
J_MA0079.1_SP1 5.0098e-05

--CCNGCCTC
ACCCNGCCNN



J_MA0443.1_btd 1.4452e-04

CCNGCCTC--
YCCGCCCMCN

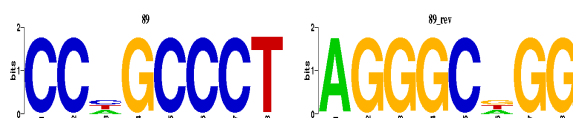


J_MA0450.1_hkb 1.9384e-04

GAGGCNGG-
KGGGCGTGA

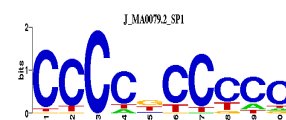


89

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

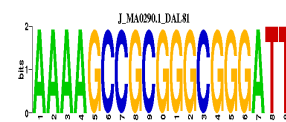
J_MA0079.2_SP1 3.4119e-06

-AGGGCNGG-
GGGGGNGGGG



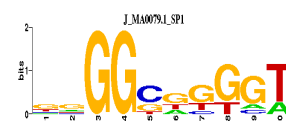
J_MA0290.1_DAL81 1.6328e-05

---CCNGCCCT-----
AATCCCGCCCGCGGCTTTT



J_MA0079.1_SP1 8.0437e-05

--CCNGCCCT
ACCCNGCCNN



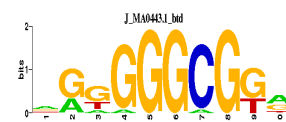
J_MA0410.1_UGA3 1.0279e-04

-CCNGCCCT
TCCCGCCN-



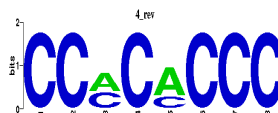
J_MA0443.1_btd 1.2734e-04

CCNGCCCT--
YCCGCCCMCN



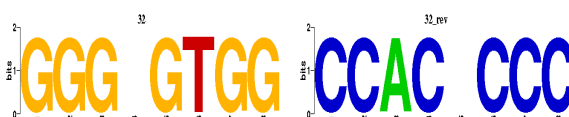
4



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	2.9608e-10	-CCMCACCC- GCCMCRCN	
J_MA0073.1_RREB1	1.1129e-06	-GGGTGKGG----- NGKKKGKGGGTGKTTTGGGG	
J_MA0436.1_YPR022C	1.5276e-05	GGGTGKGG -NGTGGGG	
J_MA0268.1_ADR1	7.6783e-05	GGGTGKGG- --KTGGGGN	
J_MA0270.1_AFT2	1.0540e-04	-GGGTGKGG NGGGTGTN-	

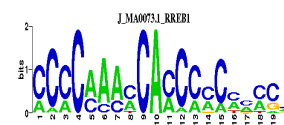
32

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	5.1806e-08	-CCACNCCC- GCCMCRCN	
J_MA0450.1_hkb	1.5242e-07	CCACNCCC- TCACGCCCM	

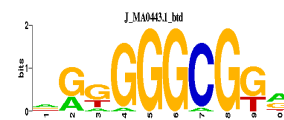
J_MA0073.1_RREB1 3.2332e-06

-----GGGNGTGG-----
 NGKKKGKGGGTGKTTTGGGG



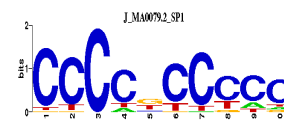
J_MA0443.1_btd 5.3179e-05

-CCACNCCC-
 YCCGCCCMCN

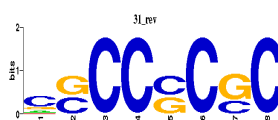
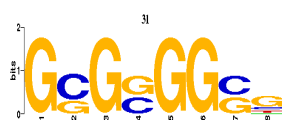


J_MA0079.2_SP1 1.5063e-04

GGGNGTGG--
 GGGGNGGGG

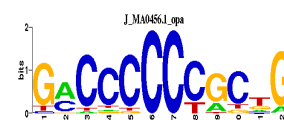


31

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

J_MA0456.1_opa 2.4208e-07

--GCGSGGSG--
 CNGCGGGGGGKC



J_MA0399.1_SUT1 1.0914e-06

CSCCSCGC
 CCCCSCG-



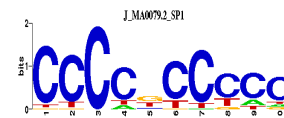
J_MA0338.1_MIG2 4.0506e-05

-GCGSGGSG
 NGYGGG--



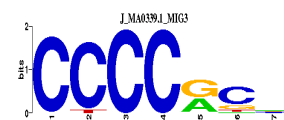
J_MA0079.2_SP1 8.9977e-05

CSCCSCGC--
 CCCCNCCCC

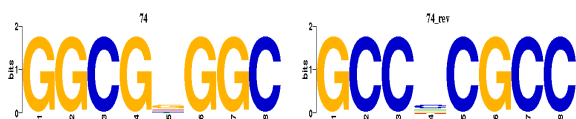


J_MA0339.1_MIG3 9.5018e-05

-GCGSGGSG
 NGYGGG--



74

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	1.7152e-09	GCCNCGCC-- GCCMCRCNN	
J_MA0079.1_SP1	1.2946e-07	GCCNCGCC-- ACCCNGCCNN	
J_MA0079.2_SP1	1.8968e-07	---GGCGNGGC GGGGNGGGG--	
J_MA0399.1_SUT1	6.2964e-07	GCCNCGCC -CCCCGCG	
J_MA0338.1_MIG2	1.0957e-06	GGCGNGGC NGYGGGG--	



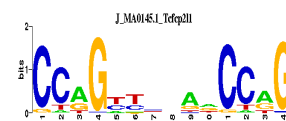
23

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	2.0285e-05	CAGCCCAGCCCCA --GCCMCRCNN	
J_MA0079.2_SP1	1.9456e-04	-TGGGCTGGGCTG GGGGNGGGG---	

J_MA0145.1_Tcfcp2l1 4.8468e-04

—CAGCCCAGCCCCA—
CCRGNYNNANCCRG



J_MA0267.1_ACE2 1.6178e-03

CAGCCCAGCCCCA
---NCCAGCN---

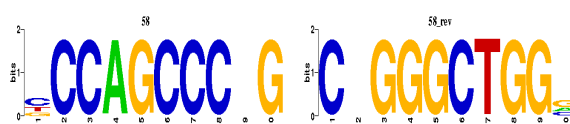


J_MA0079.1_SP1 2.3330e-03

CAGCCCAGCCCCA
--ACCNGCCNN

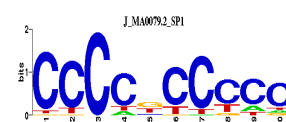


58

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

J_MA0079.2_SP1 1.0690e-04

CNGGGCTGGN
GGGGGNGGGG



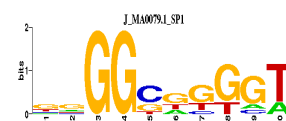
J_MA0267.1_ACE2 6.9099e-04

CNGGGCTGGN
---NGCTGGN



J_MA0079.1_SP1 1.0526e-03

—NCCAGCCCNG
ACCCNGCCNN—



J_MA0039.2_Klf4 1.8814e-03

—NCCAGCCCNG
GCCMCRCCCN—

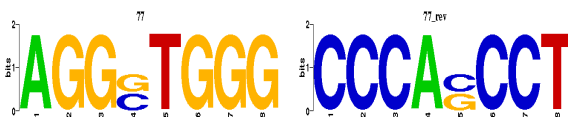


J_MA0402.1_SWI5 2.7492e-03

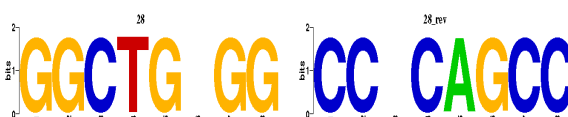
—NCCAGCCCNG
NACCAGCA---



77

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	3.2270e-05	--CCASCCT GCCMCRCCCN	
J_MA0079.1_SP1	1.0510e-04	-CCASCCT- ACCCNGCCNN	
J_MA0112.2_ESR1	1.3701e-03	-----CCASCCT----- NNNNNAGGTCANNNTGACCY	
J_MA0436.1_YPR022C	1.5497e-03	AGGSTGGG- --NGTGGGG	
J_MA0267.1_ACE2	1.8317e-03	CCASCCT NCCAGCN-	



28

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	1.3242e-04	----GGCTGNGG NCGCAGCTGCGN	
J_MA0146.1_Zfx	4.1415e-04	--GGCTGNGG---- NAGGCCNNGGCNNN	

J_MA0344.1_NHP10 1.8819e-03

GGCTGNGG--
--NCCGGGGA

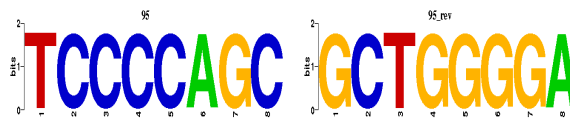
J_MA0332.1_MET28 1.9430e-03

CCNCAGCC
CCACAG--

J_MA0242.1_run_Bgb 3.0409e-03

GGCTGNGG---
--TTGCGGTTW

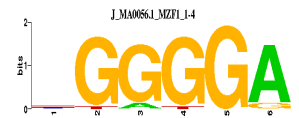
95

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

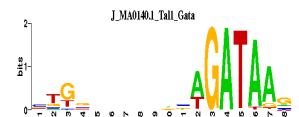
J_MA0344.1_NHP10 7.2292e-09

TCCCCAGC
TCCCCGNN

J_MA0056.1_MZF1_1-4 1.9384e-05

TCCCCAGC
TCCCCN--

J_MA0140.1_Tal1_Gata 7.6635e-05

-----TCCCCAGC--
NTTATCTNNNNNNNNNCNN

J_MA0332.1_MET28 1.6557e-04

TCCCCAGC
--CCACAG--

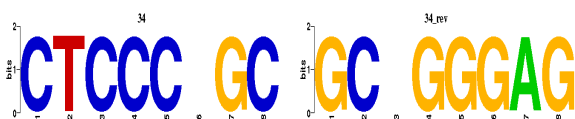
J_MA0267.1_ACE2 1.7345e-04

-GCTGGGGA
NGCTGGN--

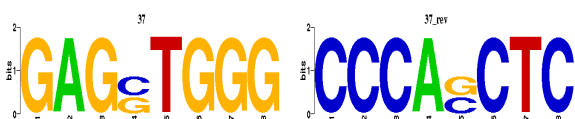
34

Stamp Results

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*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0267.1_ACE2	3.6991e-04	-GCNNGGGAG NGCTGGN--	
J_MA0088.1_znf143	6.4651e-04	-----GCNNGGGAG----- KCNNKGMANNMTGGGANNNN	
J_MA0402.1_SWI5	9.1268e-04	CTCCCNCGC- -NACCAGCA	
J_MA0456.1_opa	2.0887e-03	--GCNNGGGAG-- CNGCGGGGGGKC	
J_MA0079.1_SP1	3.4478e-03	---GCNNGGGAG NNGGCNNGGT-	



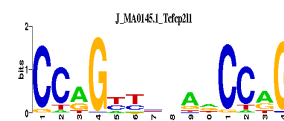
37

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0103.1_ZEB1	4.7677e-04	GAGSTGGG NAGGTG--	
J_MA0086.1_sna	5.9077e-04	CCCACTC --CACCTG	

J_MA0145.1_Tcfcp2l1 6.3407e-04

-----GAGSTGGG
CYGGNTNNRNCYGG-



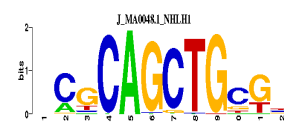
J_MA0267.1_ACE2 1.1071e-03

GAGSTGGG
-NGCTGGN



J_MA0048.1_NHLH1 1.1695e-03

-CCASCSTC---
NCGCAGCTGCGN



62

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

J_MA0267.1_ACE2 6.5367e-04

GASCTGGG
-NGCTGGN



J_MA0048.1_NHLH1 8.3711e-04

-CCCAGSTC---
NCGCAGCTGCGN



J_MA0086.1_sna 1.2304e-03

GASCTGGG
CACCTG--



J_MA0402.1_SWI5 1.5851e-03

-CCCAGSTC
NACCAGCA-

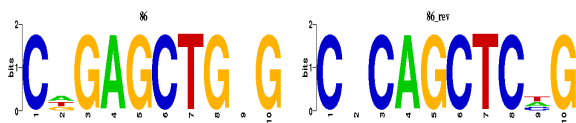


J_MA0145.1_Tcfcp2l1 1.8108e-03

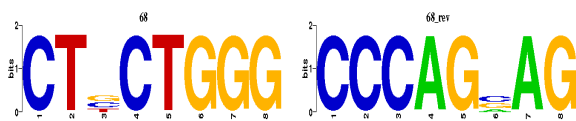
-----GASCTGGG
CYGGNTNNRNCYGG-



86

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	2.2846e-04	—CNGAGCTGNG— NCGCAGCTGCGN	
J_MA0267.1_ACE2	1.2149e-03	CNGAGCTGNG ---NGCTGGN	
J_MA0079.2_SP1	2.7573e-03	CNGAGCTGNG GGGGNGGGG	
J_MA0402.1_SWI5	3.4506e-03	—CNCAGCTCNG NACCAGCA---	
J_MA0145.1_Tcfcp2l1	3.7261e-03	CNCAGCTCNG----- —CCRGNYNNANCCRG	



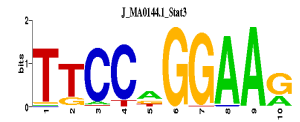
68

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0402.1_SWI5	2.3484e-05	—CCCAGNAG NACCAGCA—	
J_MA0088.1_znf143	2.4274e-04	-----CTNCTGGG----- KCNNKGMANNMTGGGANNNN	

J_MA0144.1_Stat3 8.0968e-04

—CTNCTGGG—
CTTCCNGGAA



J_MA0267.1_ACE2 1.9198e-03

CTNCTGGG
—NGCTGGN

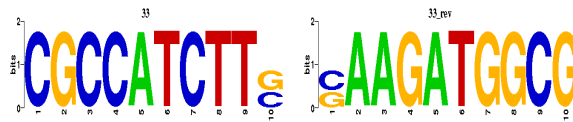


J_MA0026.1_Eip74EF 2.8427e-03

CTNCTGGG
YTTCCGG—



33

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

J_MA0373.1_RPN4

1.9891e-05

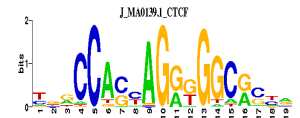
CGCCATCTTS
CGCCACC---



J_MA0139.1_CTCF

1.3180e-04

-----SAAGATGGCG---
YNNCCASYAGGKGGCRSNN



J_MA0091.1_TAL1_TCF3 5.7822e-03

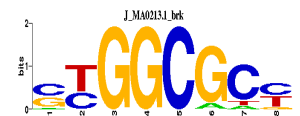
—SAAGATGGCG—
AMCAGATGKTNN



J_MA0213.1_brk

7.1865e-03

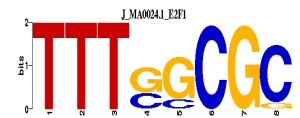
--CGCCATCTTS
RGCGCCRS----



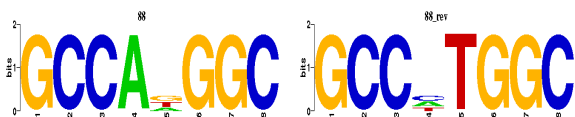
J_MA0024.1_E2F1

7.9571e-03

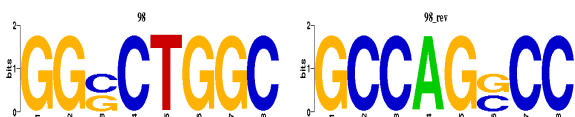
—CGCCATCTTS
GCGCSAAA---



88

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0368.1_RIM101	1.2935e-04	-GCCANGGC YGCCAAG--	
J_MA0344.1_NHP10	2.9271e-04	GCCNTGGC TCCCCGGN	
J_MA0106.1_TP53	4.1344e-04	----GCCANGGC----- ACATGCCCGGGCATGTCCNN	
J_MA0155.1_INSM1	6.7871e-04	-GCCANGGC--- TGYCAGGGGGCR	
J_MA0161.1_NFIC	1.8974e-03	-GCCANGGC NGCCAA---	



98

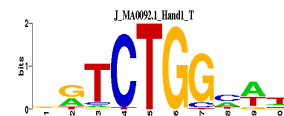
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	1.7186e-03	GCCAGSCC-- GCCMCRCCTN	
J_MA0146.1_Zfx	2.0154e-03	----GCCAGSCC-- NNNGCCNNGGCCTN	

J_MA0267.1_ACE2 2.4751e-03

GGSCTGGC
-NGCTGGN

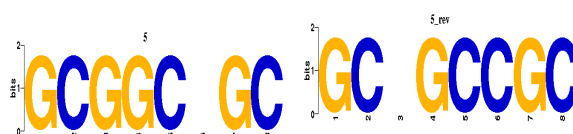
J_MA0092.1_Hand1_T 2.7807e-03

--GCCAGSCC
NWNCCAGAYN

J_MA0368.1_RIM101 5.6590e-03

GGSCTGGC-
--CTTGGCR

5

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

J_MA0412.1_UME6 3.9523e-07

-----GCNGCCGC
AwwTAGCCGCCSA

J_MA0320.1_IME1 2.7229e-06

-GCGGCNGC
CTCGGCCG-

J_MA0394.1_STP1 9.2660e-06

GCNGCCGC-
-NMGCCGCR

J_MA0361.1_RDS1 1.1838e-04

GCGGCNGC
NCGGCCG-

J_MA0429.1_YLL054C 1.4132e-04

GCNGCCGC
NCGGCCG-

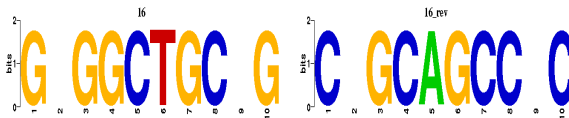
6



forward*reverse compliment*

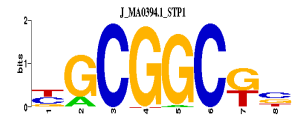
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.4252e-08	GGNGGCGG-- GGGGGNGGGG	
J_MA0443.1_btd	6.0313e-08	-CCGCCNCC- YCCGCCCMCN	
J_MA0320.1_IME1	2.3414e-05	GGNGGCGG CTCGGCGG	
J_MA0394.1_STP1	7.3094e-05	CCGCCNCC NMGCCGCR	
J_MA0373.1_RPN4	1.7319e-04	CCGCCNCC -CGCCACC	

16

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	3.4019e-07	CNGCAGCCNC-- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	4.4700e-06	CNGCAGCCNC-- NCGCAGCTGCGN	

J_MA0394.1_STP1 9.0980e-04

CNGCAGCCNC--
---NMGCCGCR

J_MA0412.1_UME6 2.3185e-03

CNGCAGCCNC---
AwwTAGCCGCCSA

J_MA0361.1_RDS1 7.7649e-03

GNGGCTGCNG
NCGGCCG---

75

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

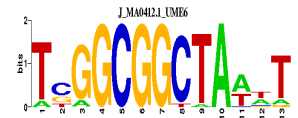
J_MA0055.1_Myf 5.2646e-07

NAGCAGCCNC--
CAGCAGYTGCYK

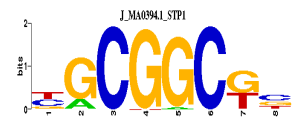
J_MA0048.1_NHLH1 4.9143e-05

NAGCAGCCNC--
NCGCAGCTGCGN

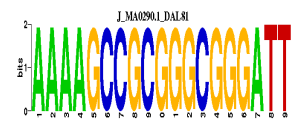
J_MA0412.1_UME6 3.4312e-04

---NAGCAGCCNC
AwwTAGCCGCCSA

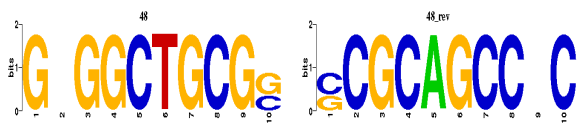
J_MA0394.1_STP1 9.0980e-04

NAGCAGCCNC--
---NMGCCGCR

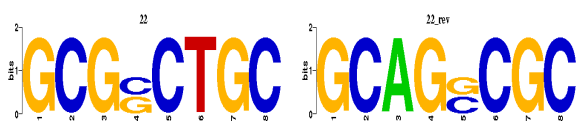
J_MA0290.1_DAL81 2.4421e-03

-----GNGGCTGCTN
AATCCCGCCCGCGGCTTTT-

48

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	2.0265e-07	--GNGGCTGCGS NCGCAGCTGCGN	
J_MA0123.1_abi4	6.6698e-04	-GNGGCTGCGS NGNNGCRSCG-	
J_MA0055.1_Myf	8.4456e-04	SCGCAGCCNC-- CAGCAGYTGCYK	
J_MA0394.1_STP1	9.0980e-04	SCGCAGCCNC-- ---NMGCCGCR	
J_MA0404.1_TBS1	9.1794e-04	SCGCAGCCNC -CGNITCCG-	



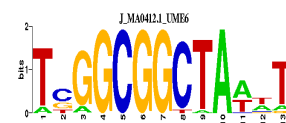
22

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	9.1977e-06	--GCGSCTGC-- NCGCAGCTGCGN	
J_MA0055.1_Myf	6.0577e-04	--GCGSCTGC-- CAGCAGYTGCYK	

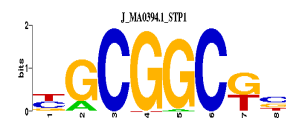
J_MA0412.1_UME6 6.8630e-04

--GCAGSCGC--
 AWWTAGCCGCCSA



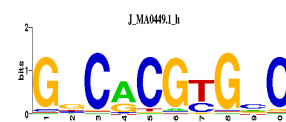
J_MA0394.1_STP1 1.0383e-03

GCAGSCGC--
 -NMGCCGCR

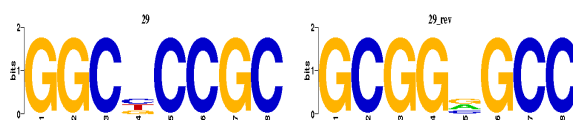


J_MA0449.1_h 1.5141e-03

-GCAGSCGC-
 GNCACGTGNC



29

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

J_MA0399.1_SUT1 3.3659e-06

-GCGGNGCC
 CGCGGG--



J_MA0283.1_CHA4 1.6207e-05

GGCNCCGC-
 -NCTCCGCC



J_MA0213.1_brk 3.4960e-05

GGCNCCGC
 RCGCCRS



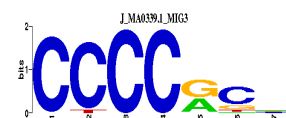
J_MA0338.1_MIG2 4.0321e-05

-GCGGNGCC
 NGYGGG--



J_MA0339.1_MIG3 4.3130e-05

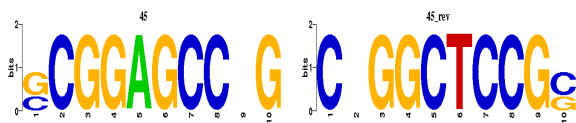
GGCNCCGC-
 --CCCCRCN



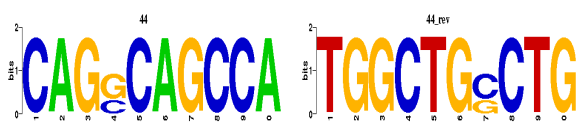
45

Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0213.1_brk	4.5091e-05	SCGGAGCCNG --RGCGCCRS	
J_MA0404.1_TBS1	7.0016e-05	CNGGCTCCGS -CGGANCCG-	
J_MA0283.1_CHA4	9.2475e-05	-SCGGAGCCNG GGCGGAGN---	
J_MA0324.1_LEU3	2.6065e-04	CNGGCTCCGS CCKNNNCCGG	
J_MA0311.1_HAL9	9.1987e-04	CNGGCTCCGS ----TTCCG-	



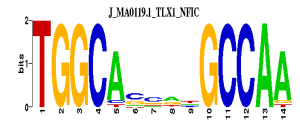
44

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0304.1_GCR1	3.3051e-04	CAGGCAGCCA -TGGAAGCC-	
J_MA0340.1_MOT3	3.3305e-04	TGGCTGCCTG ----TRCCTN	

J_MA0119.1_TLX1_NFIC 1.7992e-03

----CAGGCAGCCA
TTGGCNNNSTGCCA



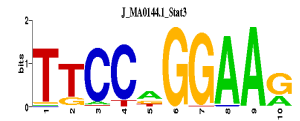
J_MA0156.1_FEV 3.7672e-03

TGGCTGCCTG
--AYTTCCTG

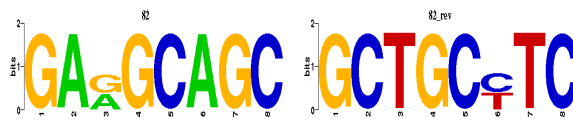


J_MA0144.1_Stat3 4.8162e-03

TGGCTGCCTG---
---CTTCNGGAA



82

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

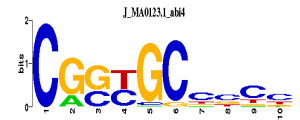
J_MA0055.1_Myf 2.9272e-05

-----GCTGCTC
CAGCAGYTGCYK-



J_MA0123.1_abi4 1.8112e-04

-GARGCAGC-
NGNNGCRSCG



J_MA0417.1_YAP5 2.3315e-04

GCTGCTC
-ATGCTT-



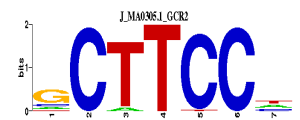
J_MA0340.1_MOT3 1.6861e-03

GCTGCTC
--TRCCTN

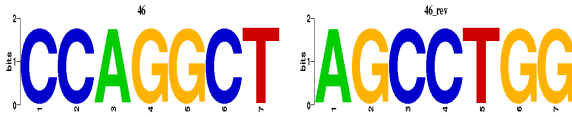


J_MA0305.1_GCR2 3.7015e-03

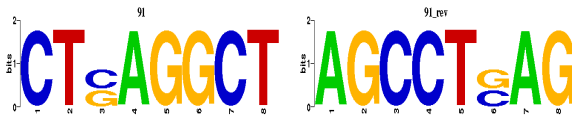
--GARGCAGC
NGGAAGC---



46

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	1.1652e-03	--CCAGGCT TCCCCGGN--	
J_MA0144.1_Stat3	1.1712e-03	-AGCCTGG-- CTTCCNGGAA	
J_MA0086.1_sna	3.4527e-03	AGCCTGG CACCTG--	
J_MA0340.1_MOT3	5.2131e-03	AGCCTGG TRCCTN--	
J_MA0162.1_Egr1	7.3826e-03	----CCAGGCT MCGCCACGCN	



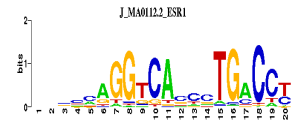
91

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0003.1_TFAP2A	2.1377e-03	--CTSAGGCT SCNNNNGGC--	
J_MA0332.1_MET28	3.3222e-03	AGCCTSAG --CCACAG	

J_MA0112.2_ESR1 3.3984e-03

-----AGCCTSAG--
NNNNNAGGTCANNNTGACCY



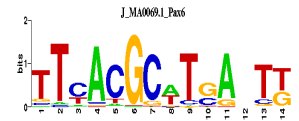
J_MA0099.2_API 6.1563e-03

CTSAGGCT
-TGAGTCA

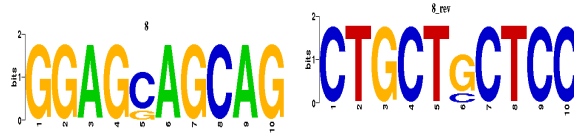


J_MA0069.1_Pax6 7.3471e-03

--CTSAGGCT----
MANTSAWGCGTGAA



8

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

J_MA0055.1_Myf 2.7116e-05

CTGCTGCTCC--
CAGCAGYTGCTYK



J_MA0402.1_SWI5 2.1368e-04

CTGCTGCTCC
-TGCTGGTN-



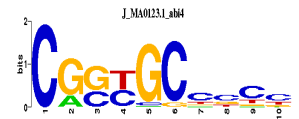
J_MA0454.1_odd 3.6783e-04

CTGCTGCTCC-
NTGCTACTGTN



J_MA0123.1_abi4 1.0889e-03

-GGAGCAGCAG
NGNNGCRSCG-



J_MA0326.1_MAC1 3.3797e-03

GGAGCAGCAG
YGAGCAAA--



36

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	1.0922e-08	CTCCTGCTGC-- CAGCAGYTGCYK	
J_MA0454.1_odd	7.9699e-05	CTCCTGCTGC- NTGCTACTGTN	
J_MA0456.1_opa	1.4155e-04	GCAGCAGGAG--- -CNGCGGGGGGKC	
J_MA0287.1_CUP2	1.0849e-03	--CTCCTGCTGC CWTTTYTGCTG-	
J_MA0048.1_NHLH1	1.1156e-03	CTCCTGCTGC-- NCGCAGCTGCGN	



15

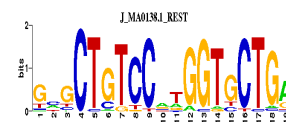
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	3.4895e-10	---CWGCTGCTG CAGCAGYTGCYK	
J_MA0048.1_NHLH1	2.2274e-06	CAGCAGCWG--- NCGCAGCTGCGN	

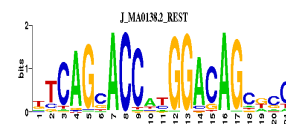
J_MA0454.1_odd 2.2203e-05

CWGCTGCTG--
NTGCTACTGTN

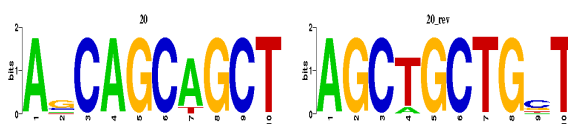
J_MA0138.1_REST 6.0468e-04

-CAGCAGCWG-----
TCAGCACCWNGGACAGCNC

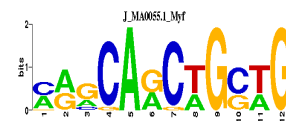
J_MA0138.2_REST 1.2209e-03

-----CWGCTGCTG--
GNNGCTGTCCNNGGTGCTGAN

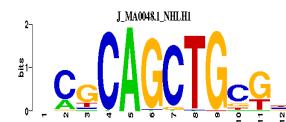
20

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

J_MA0055.1_Myf 2.7924e-10

-AGCTGCTGNT-
CAGCAGYTGCYK

J_MA0048.1_NHLH1 1.3077e-05

-ANCAGCAGCT-
NCGCAGCTGCGN

J_MA0402.1_SWI5 9.6146e-05

-ANCAGCAGCT
NACCAGCA---

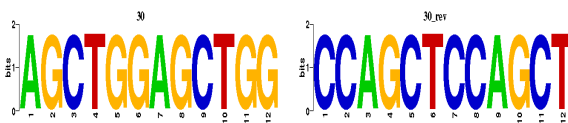
J_MA0454.1_odd 2.6131e-04

AGCTGCTGNT---
--NTGCTACTGTN

J_MA0287.1_CUP2 8.4642e-03

---AGCTGCTGNT
CWTTTGTGCTG--

30

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	1.3232e-06	--AGCTGGAGCTGG CYGGNTNNRNCYGG	
J_MA0055.1_Myf	3.5393e-04	CCAGCTCCAGCT-- --CAGCAGYTGCYK	
J_MA0213.1_brk	5.2600e-04	CCAGCTCCAGCT --RGCGCCRS--	
J_MA0267.1_ACE2	1.6178e-03	CCAGCTCCAGCT CCAGCN-----	
J_MA0451.1_kni	2.4905e-03	CCAGCTCCAGCT-- --NTGCTCTANTTT	



53

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	5.3646e-09	AGCTGCAGCTGC-- --CAGCAGYTGCYK	
J_MA0048.1_NHLH1	2.4752e-07	AGCTGCAGCTGC-- --NCGCAGCTGCGN	

J_MA0086.1_sna 1.3145e-03

GCAGCTGCAGCT
-CACCTG-----

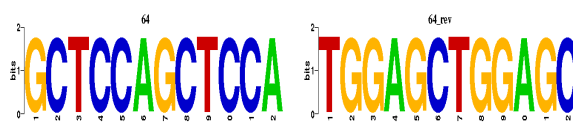
J_MA0454.1_odd 4.4676e-03

AGCTGCAGCTGC-
--NTGCTACTGTN

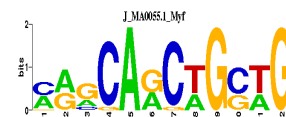
J_MA0357.1_PHO4 2.1078e-02

GCAGCTGCAGCT
SCACGTGS-----

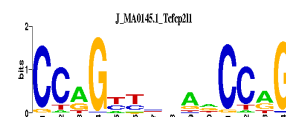
64

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

J_MA0055.1_Myf 2.4788e-04

GCTCCAGCTCCA-
-CAGCAGYTG CYK

J_MA0145.1_Tcfp211 7.9884e-04

-----TGGAGCTGGAGC
CYGGNTNNRNCYGG---

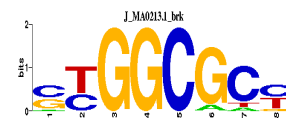
J_MA0267.1_ACE2 1.6178e-03

TGGAGCTGGAGC
---NGCTGGN---

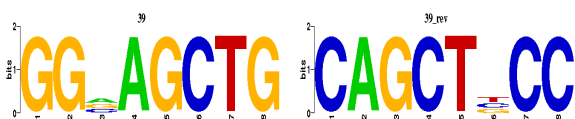
J_MA0451.1_kni 2.4905e-03

--GCTCCAGCTCCA
NTGCTCTANTTT--

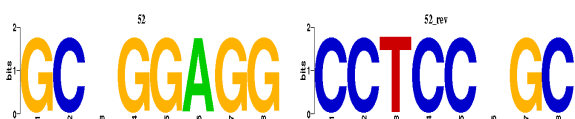
J_MA0213.1_brk 3.7096e-03

-GCTCCAGCTCCA
RGC GCCRS-----

39

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	9.6698e-06	--GGNAGCTG-- NCGCAGCTGCGN	
J_MA0305.1_GCR2	1.3051e-05	CAGCTNCC-- --GCTTCN	
J_MA0055.1_Myf	1.7474e-05	---CAGCTNCC-- CAGCAGYTGCYK	
J_MA0323.1_IXR1	6.8621e-05	--CAGCTNCC----- CMCCGCTTCCGGYTT	
J_MA0304.1_GCR1	8.4315e-05	CAGCTNCC-- --GGCTTCCA	



52

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0456.1_opa	1.6063e-05	--GCNGGAGG-- CNGCGGGGGGKC	
J_MA0410.1_UGA3	7.9540e-05	CCTCCNGC-- --TCCCGCCN	

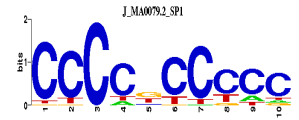
J_MA0290.1_DAL81 1.5248e-04

-----CCTCCNGC-----
AATCCCGCCCGCGGCTTTT



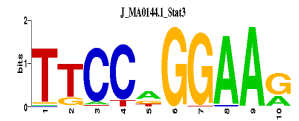
J_MA0079.2_SP1 5.8804e-04

GCNGGAGG--
GGGGGNGGGG

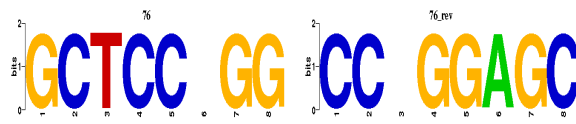


J_MA0144.1_Stat3 1.3145e-03

CCTCCNGC--
CTTCCNGGAA



76

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

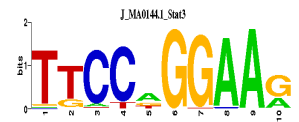
J_MA0323.1_IXR1 1.7053e-06

---CCNGGAGC---
AARCCGGAAGCGGKG



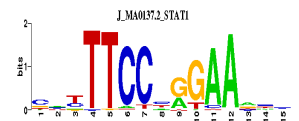
J_MA0144.1_Stat3 3.4937e-05

--CCNGGAGC
TTCCNGGAAG



J_MA0137.2_STAT1 3.4944e-04

-----CCNGGAGC--
NNNTTCCNGGAARNN



J_MA0026.1_Eip74EF 4.1740e-04

CCNGGAGC
CCGGAAR-



J_MA0454.1_odd 4.6197e-04

--GCTCCNGG-
NTGCTACTGTN



61

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

J_MA0150.1_NFE2L2

2.2458e-03

CTGSAGAG----

---TGCTNWTGTCAY

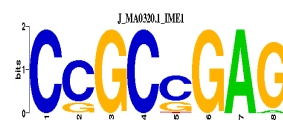


J_MA0320.1_IME1

3.0248e-03

CTCTSCAG

CTCGGCGG



J_MA0385.1_SOK2

4.0402e-03

CTCTSCAG---

NNMTGCAKNNN

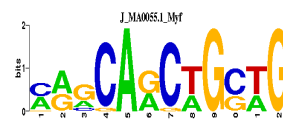


J_MA0055.1_Myf

4.9931e-03

CTCTSCAG-----

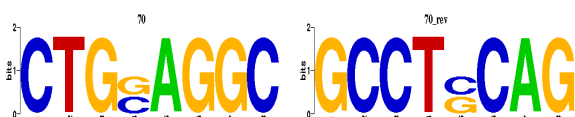
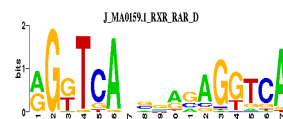
--CAGCAGYTGCYK



J_MA0159.1_RXR_RAR_D 5.0218e-03

-----CTGSAGAG-----

RGKTCANNNRNAGGTCA



70

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

J_MA0304.1_GCR1

3.2191e-04

---GCCTSCAG

GGCTTCCA---



J_MA0155.1_INSM1

1.5855e-03

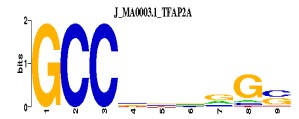
---GCCTSCAG---

YGCCCCCTGRCA



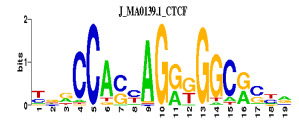
J_MA0003.1_TFAP2A 3.4647e-03

—CTGSAGGC
SCNNNGGC



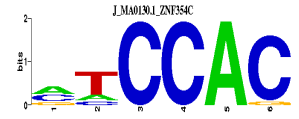
J_MA0139.1_CTCF 3.9362e-03

-----CTGSAGGC--
NNSYGCCMCCTRSTGGNNR

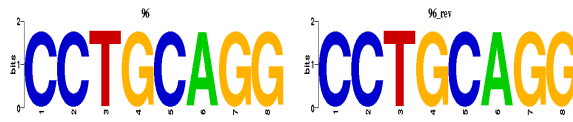


J_MA0130.1_ZNF354C 5.7910e-03

CTGSAGGC
GTGGAK--



96

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

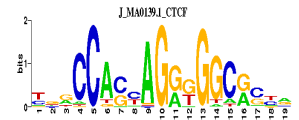
J_MA0385.1_SOK2 8.1510e-04

—CCTGCAGG--
NNMTGCAKNNN



J_MA0139.1_CTCF 2.0604e-03

-----CCTGCAGG---
NNSYGCCMCCTRSTGGNNR



J_MA0402.1_SWI5 3.7071e-03

CCTGCAGG--
--TGCTGGTN



J_MA0086.1_sna 6.4886e-03

--CCTGCAGG
CACCTG----

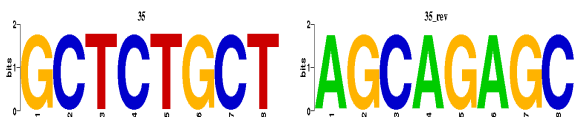


J_MA0055.1_Myf 9.3067e-03

-----CCTGCAGG
MRGCARCTGCTG-



35

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0287.1_CUP2	7.1974e-04	—AGCAGAGC— CAGCARAAAWG	
J_MA0316.1_HAP5	1.1253e-03	----AGCAGAGC--- ACCAATNAGMNNSSN	
J_MA0451.1_kni	1.8390e-03	--AGCAGAGC-- AAANTAGAGCAN	
J_MA0326.1_MAC1	4.8854e-03	--AGCAGAGC YGAGCAAA--	
J_MA0283.1_CHA4	5.2884e-03	GCTCTGCT NCTCCGCC	



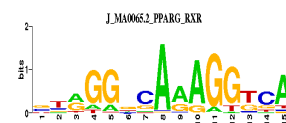
54

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0326.1_MAC1	5.6995e-05	—GAGCASAG YGAGCAAA—	
J_MA0332.1_MET28	9.7950e-04	GAGCASAG --CCACAG	

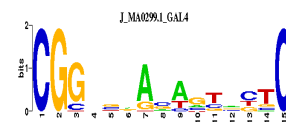
J_MA0065.2_PPARG_RXR 1.2092e-03

----CTSTGCTC---
TGMCCTTTGNCCYNN



J_MA0299.1_GAL4 1.6736e-03

-----CTSTGCTC
CGGNNNANANYNNTC

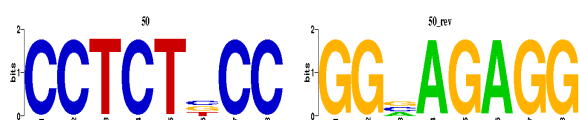


J_MA0287.1_CUP2 2.7798e-03

---CTSTGCTC
CWTTTYTGCTG

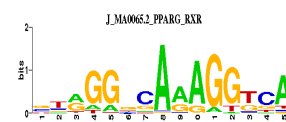


50

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

J_MA0065.2_PPARG_RXR 5.4125e-06

---CCTCTNCC---
TGMCCTTTGNCCYNN



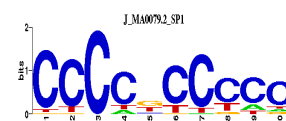
J_MA0062.1_GABPA 9.7446e-06

CCTCTNCC---
-SNCTTCCGGT



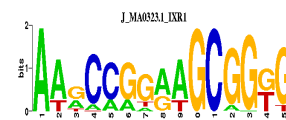
J_MA0079.2_SP1 6.6967e-05

GGNAGAGG--
GGGGGNGGGG



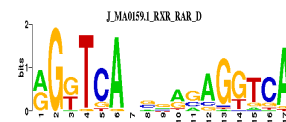
J_MA0323.1_IXR1 9.1713e-05

--CCTCTNCC-----
CMCCGCTTCCGGYTT

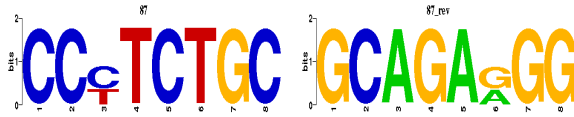


J_MA0159.1_RXR_RAR_D 6.1851e-04

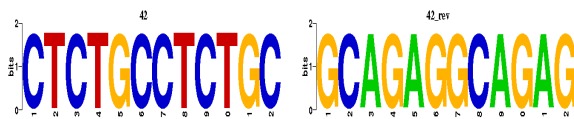
---CCTCTNCC-----
TGACCTNYNNNTGAMCY



87

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0065.2_PPARG_RXR	1.0442e-04	--CCYTCTGC----- TGMCCCTTTGNCCYNN	
J_MA0456.1_opa	8.9951e-04	-----CCYTCTGC GMCCCCCGCNG-	
J_MA0139.1_CTCF	1.1654e-03	-----CCYTCTGC----- NNSYGCCMCCTRSTGGNNR	
J_MA0155.1_INSM1	3.7006e-03	--CCYTCTGC-- YGCCCCCTGRCA	
J_MA0364.1_REI1	3.9036e-03	CCYTCTGC -CCCCTGN	



42

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0081.1_SPIB	5.8925e-04	CTCTGCCTCTGC ---TTCKST--	
J_MA0283.1_CHA4	6.4739e-04	-CTCTGCCTCTGC NCTCCGCC-----	

Stamp Results

11/22/15

J_MA0062.1_GABPA 9.4136e-04

GCAGAGGCAGAG
--ACCGGAAGNS

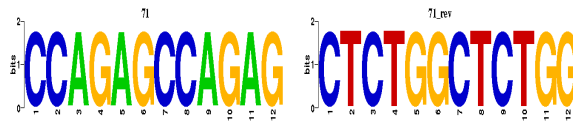
J_MA0150.1_NFE2L2 1.2570e-03

-GCAGAGGCAGAG
TGCTNWGTCAY--

J_MA0340.1_MOT3 1.8159e-03

CTCTGCCTCTGC
---TRCCTN---

71

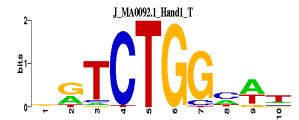
*forward**reverse compliment**Name**E value**Alignment**Motif*

J_MA0213.1_brk

6.5288e-04

CCAGAGCCAGAG
--RGCGCCRS--

J_MA0092.1_Hand1_T 7.0522e-04

CCAGAGCCAGAG-
---NWNCCAGAYN

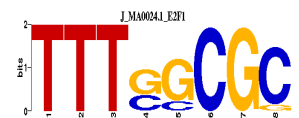
J_MA0332.1_MET28 1.1280e-03

CTCTGGCTCTGG
CTGTGG-----

J_MA0278.1_BAS1 1.3621e-03

---CTCTGGCTCTGG-----
NNNWNVTGACTCNGGCYNNNN

J_MA0024.1_E2F1 4.7099e-03

CCAGAGCCAGAG
---GCGCSAAA-

79

Stamp Results

11/22/15

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

J_MA0283.1_CHA4

2.1230e-04

-CTSAGCCC
NCTCCGCC-

J_MA0016.1_usp

1.5115e-03

--CTSAGCCC
NNGTGACCCC

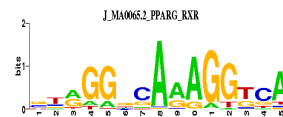
J_MA0150.1_NFE2L2

2.2131e-03

----CTSAGCCC
RTGACWNAGCA-

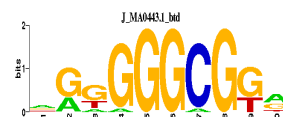
J_MA0065.2_PPARG_RXR

3.5533e-03

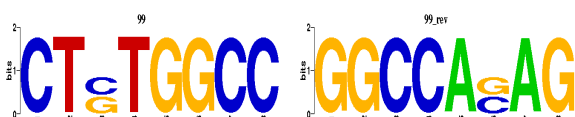
----CTSAGCCC---
TGMCCTTTGNCCYNN

J_MA0443.1_btd

4.5996e-03

CTSAGCCC---
-YCCGCCCMCN

99

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

J_MA0332.1_MET28

2.0201e-07

GGCCASAG
--CCACAG

J_MA0334.1_MET32

4.4830e-06

CTSTGGCC
-TGTGGCN

J_MA0335.1_MET4 2.8490e-05

--CTSTGGCC
ANCTGTGG--



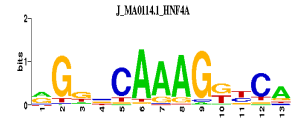
J_MA0299.1_GAL4 5.6673e-05

-----CTSTGGCC--
GANNRNTNTNNNCCG



J_MA0114.1_HNF4A 1.0185e-04

-GGCCASAG----
RGNNCAAAGKNCA



41

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

J_MA0081.1_SPIB 6.0164e-04

CTNCTCTG
TTCKST-



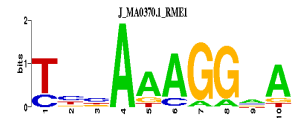
J_MA0451.1_kni 8.3605e-04

CTNCTCTG----
NTGCTCTANTTT



J_MA0370.1_RME1 4.5339e-03

CTNCTCTG--
TNCCTTTNNA



J_MA0326.1_MAC1 5.1579e-03

CAGAGNAG--
-YGAGCAA



J_MA0090.1_TEAD1 1.3536e-02

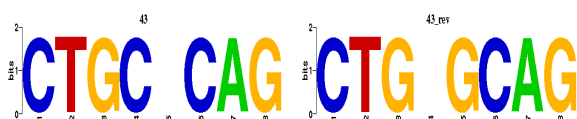
CAGAGNAG----
CNSWGAATGTR



73

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	6.2506e-05	-CTTCYCTG- CCTTYYYTTN	
J_MA0437.1_YPR196W	2.7707e-04	CAGRGAAG- CGGRNAAAT	
J_MA0080.1_SPI1	2.8701e-04	CTTCYCTG STTCN--	
J_MA0080.2_SPI1	7.3054e-04	CAGRGAAG- --AGGAAGT	
J_MA0156.1_FEV	7.8478e-04	CTTCYCTG AYTTCCTG	



43

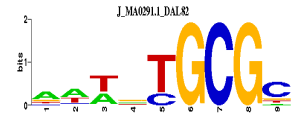
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0320.1_IME1	1.9836e-03	CTGNCAG CTCGCGG	
J_MA0102.2_CEBPA	3.3092e-03	-CTGNCAG RTTGNNA	

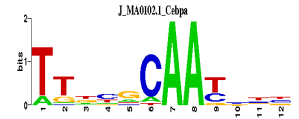
J_MA0326.1_MAC1 3.5682e-03

CTGNGCAG--
-YGAGCAAA

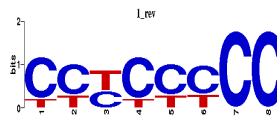
J_MA0291.1_DAL82 5.6693e-03

CTGCNCAG---
--GCGCANWWN

J_MA0102.1_Cebpa 1.2376e-02

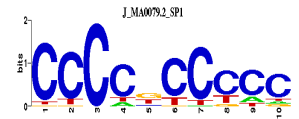
----CTGNGCAG
NNNRTTGNNNAA

1

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

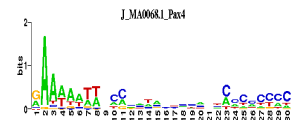
J_MA0079.2_SP1

1.6318e-08

GGGGGRGG--
GGGGNGGGG

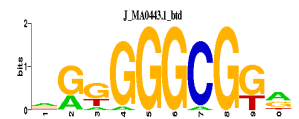
J_MA0068.1_Pax4

1.1302e-05

GGGGGRGG-----
GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY

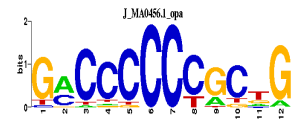
J_MA0443.1_btd

5.2444e-05

-CCYCCCCC-
YCCGCCCMCN

J_MA0456.1_opa

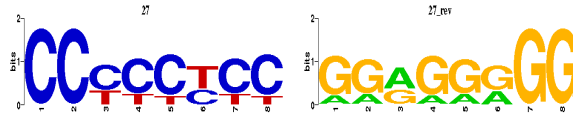
1.6574e-04

--GGGGGRGG--
CNGCGGGGGGKC

J_MA0283.1_CHA4

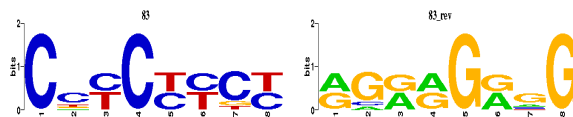
1.6583e-04

CCYCCCCC
NCTCCGCC

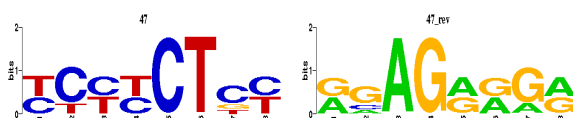
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.1861e-06	GGRGGGGG-- GGGGNGGGG	
J_MA0341.1_MSN2	1.2835e-05	CCCCCYCC -CCCCT--	
J_MA0068.1_Pax4	1.5167e-05	GGRGGGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY	
J_MA0342.1_MSN4	2.8131e-05	CCCCCYCC -CCCCT--	
J_MA0366.1_RGM1	6.7139e-05	CCCCCYCC -CCCCT--	

83

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	4.4487e-06	CNYCYCYC-- CCCNCCCCC	
J_MA0341.1_MSN2	7.0807e-05	CNYCYCYC CCCCT---	

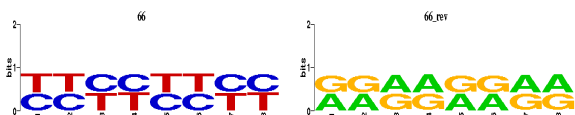
47

reverse compliment

66

Stamp Results

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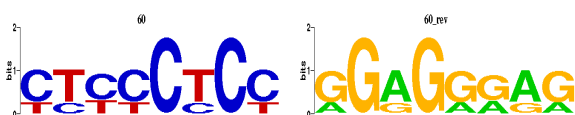


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	9.8066e-08	-YYYYYYYY- CCTTYYTNN	
J_MA0120.1_id1	1.4198e-05	-RRRRRRRR--- CGNNANNRRMNA	
J_MA0277.1_AZF1	3.9784e-03	-YYYYYYYY TTTCTTTT	
J_MA0079.2_SP1	8.1807e-03	--RRRRRRRR GGGGNGGGG	
J_MA0287.1_CUP2	2.1154e-02	--YYYYYYYY- CWTTTYTGCTG	

60



forward

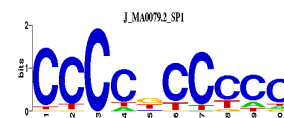
reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0080.2_SPI1	1.3113e-04	GGAGGGAG- --AGGAAGT	
J_MA0039.1_Klf4	3.4696e-04	-GGAGGGAG- NAARRRAAGG	

J_MA0081.1_SPIB 9.9522e-04

GGAGGGAG
ASMGGAA-

J_MA0079.2_SP1 1.0869e-03

GGAGGGAG---
-GGGGGNGGGG

J_MA0410.1_UGA3 1.2268e-03

CTCCCTCC-
-TCCCGCCN

57

*forward**reverse compliment*

Name	E value	Alignment	Motif
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J_MA0366.1_RGM1 1.0969e-05

CTCCCCCTC
--CCCCT-

J_MA0342.1_MSN4 1.1519e-05

GAGGGGAG
-AGGGG--

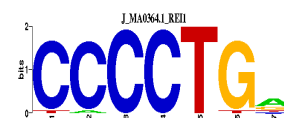
J_MA0341.1_MSN2 2.8179e-05

GAGGGGAG
-AGGGG--

J_MA0056.1_MZF1_1-4 6.7726e-05

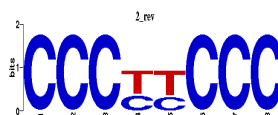
CTCCCCCTC
-TCCCN-

J_MA0364.1_REI1 6.3549e-04

-GAGGGGAG
NCAGGGG--

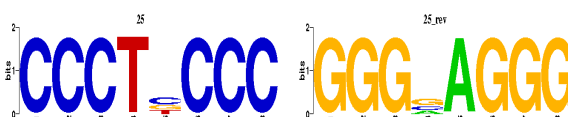
2



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.5919e-07	--GGGARGGG GGGGGNGGGG	
J_MA0039.1_Klf4	6.5793e-05	CCCYTCCC--- -CCTTYYTTN	
J_MA0341.1_MSN2	2.2594e-04	GGGARGGG ---AGGGG	
J_MA0342.1_MSN4	3.6822e-04	CCCYTCCC CCCCT---	
J_MA0080.1_SPI1	6.1453e-04	CCCYTCCC --STTCN	

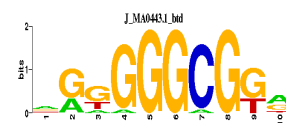
25

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.2554e-09	-GGGNAGGG- GGGGGNGGGG	
J_MA0056.1_MZF1_1-4	1.2877e-04	CCCTNCCC- ---TCCCCN	

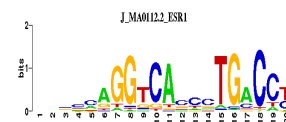
J_MA0443.1_btd 2.4369e-04

--GGGNAGGG
NGKGGGCGGR



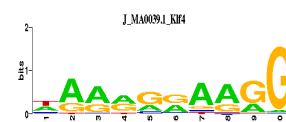
J_MA0112.2_ESR1 4.2136e-04

-----CCCTNCCC-
NNNNNAGGTCANNNTGACCY

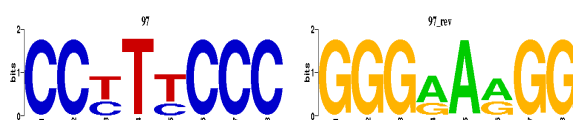


J_MA0039.1_Klf4 1.0609e-03

CCCTNCCC--
CCTTYYTTN



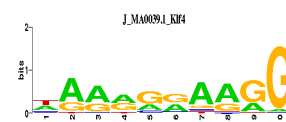
97

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

J_MA0039.1_Klf4

3.2432e-06

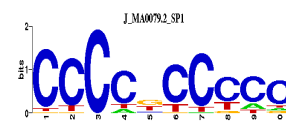
--GGGAARGG
NAARRRAAGG



J_MA0079.2_SP1

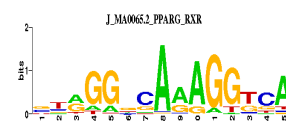
6.5917e-06

-GGGAARGG-
GGGGGNGGGG



J_MA0065.2_PPARG_RXR 7.1380e-06

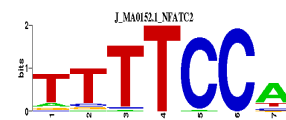
---CCYTTCCC---
TGMCCTTTGNCCYNN



J_MA0152.1_NFATC2

9.6833e-04

GGGAARGG
TGGAAAA-



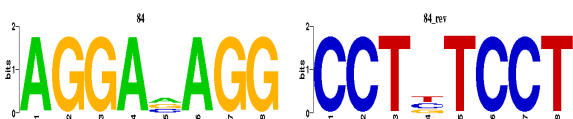
J_MA0156.1_FEV

1.2199e-03

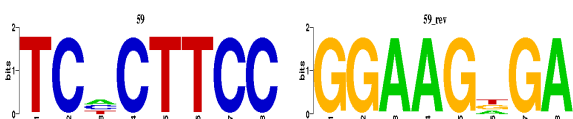
CCYTTCCC-
-AYTTCCTG



84

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	7.9685e-06	CCTNTCCT-- CCTTYYTTN	
J_MA0159.1_RXR_RAR_D	9.3041e-05	---CCTNTCCT----- TGACCTNYYNNNTGAMCY	
J_MA0156.1_FEV	5.4668e-04	CCTNTCCT- -AYTTCCTG	
J_MA0065.2_PPARG_RXR	1.2704e-03	---CCTNTCCT---- TGMCCTTTGNCCYNN	
J_MA0080.2_SPI1	2.7888e-03	CCTNTCCT -ACTTCCT	



59

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0062.1_GABPA	1.6580e-06	---GGAAGNGA ACCGGAAGNS-	
J_MA0062.2_GABPA	1.3043e-05	-TCNCTTCC-- NNCACTTCCGG	

Stamp Results

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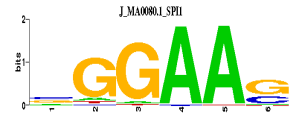
J_MA0080.2_SPI1 1.5372e-05

—GGAAGNGA
AGGAAGT—



J_MA0080.1_SPI1 4.2939e-05

TCNCTTCC—
—STTCCN

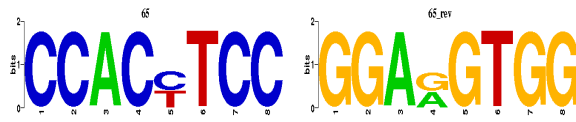


J_MA0305.1_GCR2 1.6884e-04

—GGAAGNGA
NGGAAGC—



65



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0062.2_GABPA 2.1180e-06

—CCACYTCC—
NNCACTTCCGG



J_MA0080.2_SPI1 8.5518e-06

—GGARGTGG
AGGAAGT—



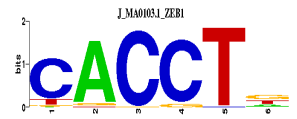
J_MA0086.1_sna 1.0647e-04

CCACYTCC
—CACCTG—



J_MA0103.1_ZEB1 1.8968e-04

GGARGTGG
—NAGGTG—



J_MA0062.1_GABPA 2.1995e-04

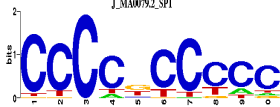
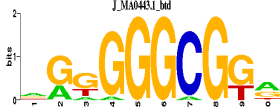
CCACYTCC—
—SNCTTCCGGT



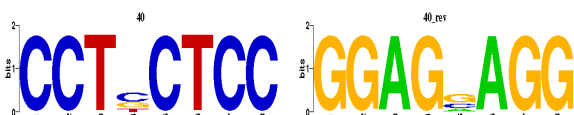
3

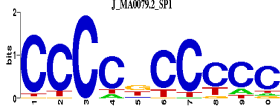


forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	4.4350e-08	GGAGGNGG-- GGGGGNGGGG	
J_MA0443.1_btd	6.7494e-05	-CCNCCTCC- YCCGCCCMCN	
J_MA0283.1_CHA4	1.4889e-04	CCNCCTCC NCTCCGCC	
J_MA0373.1_RPN4	4.5828e-04	CCNCCTCC -CGCCACC	
J_MA0323.1_IXR1	1.2689e-03	--CCNCCTCC----- CMCCGCTTCCGYYT	

40

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.8192e-06	GGAGNAGG-- GGGGGNGGGG	
J_MA0283.1_CHA4	9.2323e-05	CCTNCTCC NCTCCGCC	

Stamp Results

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J_MA0062.1_GABPA 8.7365e-04

CCTNCTCC---
-SNCTTCCGGT

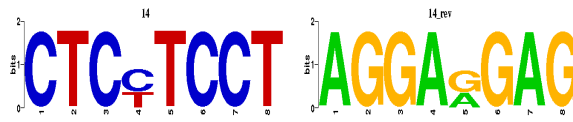
J_MA0081.1_SPIB 2.0878e-03

CCTNCTCC
-TTCKST

J_MA0090.1_TEAD1 2.3494e-03

-GGAGNAGG---
CNSWGGAA TGTR

14

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

J_MA0062.1_GABPA 6.1443e-06

CTCYTCCT--
SNCTTCCGGT

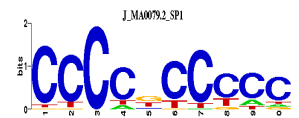
J_MA0080.2_SPI1 1.8017e-05

CTCYTCCT
-ACTTCCT

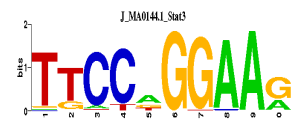
J_MA0283.1_CHA4 1.3946e-04

AGGARGAG-
-GGCGGAGN

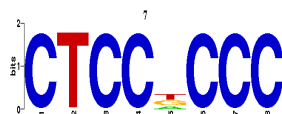
J_MA0079.2_SP1 1.3298e-03

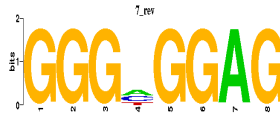
AGGARGAG---
-GGGGNGGGG

J_MA0144.1_Stat3 1.3888e-03

CTCYTCCT----
--CTTCNGGAA

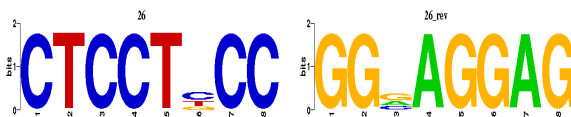
7



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	1.2707e-07	-CTCCNCCC NCTCCGCC-	
J_MA0079.2_SP1	8.6287e-07	--GGGNGGAG GGGGGNGGGG	
J_MA0443.1_btd	4.2701e-06	CTCCNCCC-- -YCCGCCCMCN	
J_MA0039.2_Klf4	6.2150e-05	-CTCCNCCC- GCCMCRCN	
J_MA0130.1_ZNF354C	1.0973e-03	GGGNGGAG --GTGGAK	

26

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.2714e-05	--GGNAGGAG GGGGGNGGGG	
J_MA0149.1_EWSR1-FLI	9.7632e-05	--CTCCTNCC----- CCTTCCTTCCTTCCTTC	

J_MA0283.1_CHA4 1.5200e-04

-CTCCTNCC
NCTCCGCC-

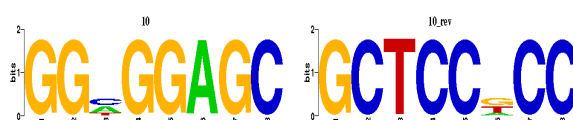
J_MA0062.1_GABPA 1.3185e-03

CTCCTNCC--
SNCTTCCGGT

J_MA0081.1_SPIB 1.3523e-03

GGNAGGAG
-ASMGGAA

10

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

J_MA0283.1_CHA4 3.7585e-08

GCTCCKCC
NCTCCGCC

J_MA0039.2_Klf4 1.1007e-04

--GGMGGAGC
NGGGYGKGGC

J_MA0079.2_SP1 1.5196e-04

---GGMGGAGC
GGGGGNGGGG-

J_MA0443.1_btd 6.1802e-04

GCTCCKCC----
--YCCGCCCMCN

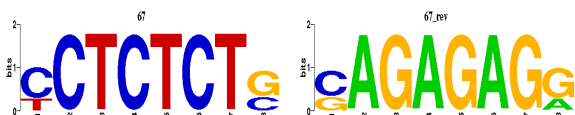
J_MA0081.1_SPIB 1.1241e-03

GGMGGAGC
ASMGGAA-

67

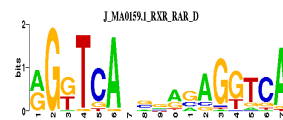
Stamp Results

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

J_MA0159.1_RXR_RAR_D 9.9319e-04

---CCTCTCTG-----
 TGACCTNYNNNTGAMCY



J_MA0081.1_SPIB

2.8767e-03

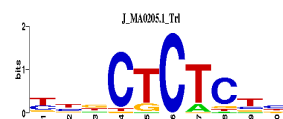
--CCTCTCTG
 TTCKST---



J_MA0205.1_Trl

3.5160e-03

CAGAGAGG--
 NNGAGAGNNR



J_MA0354.1_PDR8

6.3347e-03

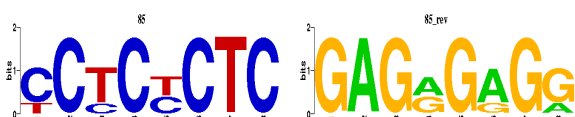
-CAGAGAGG
 NCGGAGAT-



J_MA0432.1_YNR063W

6.5939e-03

-CAGAGAGG
 TCGGAGAT-



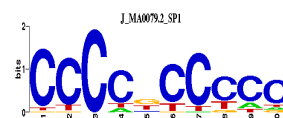
85

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

J_MA0079.2_SP1

1.8019e-04

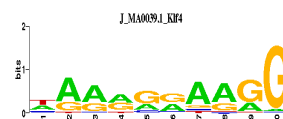
GAGRGAGG--
 GGGGGNNGGG



J_MA0039.1_Klf4

6.3608e-04

CCTCYCTC--
 CCTTYYTTN



Stamp Results

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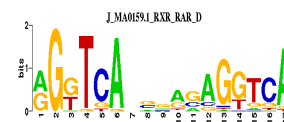
J_MA0057.1_MZF1_5-13 2.0502e-03

—CCTCYCTC—
NTNCCCCTMN



J_MA0159.1_RXR_RAR_D 2.3800e-03

-----GAGRGAGG---
RGKTCANNRNAGGTCA

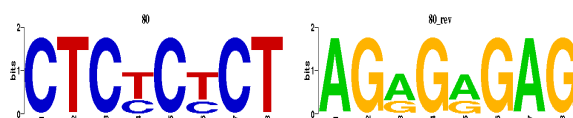


J_MA0341.1_MSN2 4.1918e-03

CCTCYCTC
CCCCT---



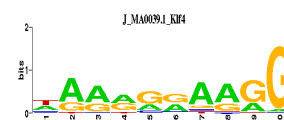
80

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

J_MA0039.1_Klf4

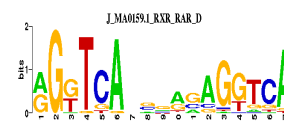
5.4942e-04

—CTCTCTCT—
CCTTYYTNN



J_MA0159.1_RXR_RAR_D 1.4659e-03

----CTCTCTCT-----
TGACCTNYYNNNTGAMCY



J_MA0057.1_MZF1_5-13 3.1265e-03

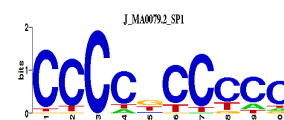
CTCTCTCT--
NTNCCCCTMN



J_MA0079.2_SP1

5.2516e-03

AGAGAGAG---
-GGGGGNGGGG



J_MA0081.1_SPIB

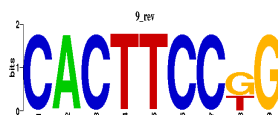
6.7969e-03

CTCTCTCT
-TTCKST



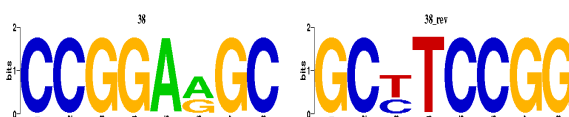
9



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0062.2_GABPA	1.0525e-13	--CACTTCCKG NNCACTTCCGG	J_MA0062.2_GABPA
J_MA0062.1_GABPA	5.2138e-11	-CMGGAAGTG ACCGGAAGNS	J_MA0062.1_GABPA
J_MA0076.1_ELK4	1.0466e-10	CACTTCCKG- -ACTTCCGGT	J_MA0076.1_ELK4
J_MA0026.1_Eip74EF	2.8247e-10	CACTTCCKG --YTTCCGG	J_MA0026.1_Eip74EF
J_MA0156.1_FEV	1.3029e-09	CACTTCCKG -AYTTCCTG	J_MA0156.1_FEV

38

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0026.1_Eip74EF	8.2441e-10	GCYTCCGG -YTTCCGG	J_MA0026.1_Eip74EF
J_MA0323.1_IXR1	1.3037e-08	----GCYTCCGG---- CMCCGCTTCCGGYTT	J_MA0323.1_IXR1

J_MA0076.1_ELK4 1.5957e-08

GCYTCCGG-
ACTTCCGGT

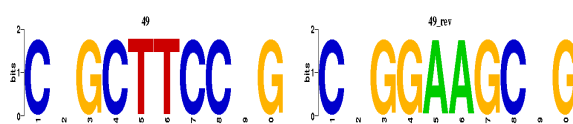
J_MA0062.1_GABPA 6.1632e-08

-GCYTCCGG-
SNCTTCCGGT

J_MA0062.2_GABPA 1.1785e-07

---GCYTCCGG
NNCACTTCCGG

49

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

J_MA0026.1_Eip74EF 2.5298e-09

CNGGAAGCNG
CCGGAAR---

J_MA0323.1_IXR1 1.5303e-08

---CNGGAAGCNG--
AARCCGGAAGCGGKG

J_MA0305.1_GCR2 1.2734e-06

CNGCTTCCNG
--GCTTCN-

J_MA0076.1_ELK4 1.6131e-06

CNGCTTCCNG-
--ACTTCCGGT

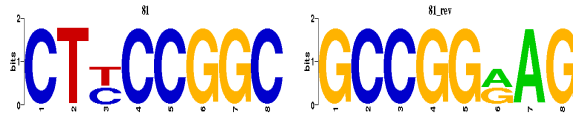
J_MA0156.1_FEV 2.0135e-06

CNGCTTCCNG
--AYTTCCTG

81

Stamp Results

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forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0323.1_IXR1	1.5168e-09	--GCCGGRAG----- AARCCGGAAGCGGKG	
J_MA0026.1_Eip74EF	3.8419e-09	GCCGGRAG -CCGGAAR	
J_MA0076.1_ELK4	8.4552e-08	-CTYCCGGC ACTTCCGGT	
J_MA0062.1_GABPA	2.1937e-07	GCCGGRAG-- ACCGGAAGNS	
J_MA0062.2_GABPA	5.0569e-07	GCCGGRAG---- -CCGGAAGTGNN	

24



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0149.1_EWSR1-FLI	1.9717e-09	-----AGGCAGGAAG- GGAAGGAAGGAAGGAAGG	
J_MA0156.1_FEV	1.6020e-06	-CTTCCTGCCT AYTTCCTG---	

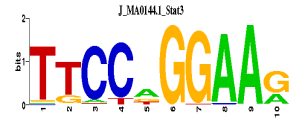
J_MA0026.1_Eip74EF 3.2129e-06

AGGCAGGAAG
---CCGGAAR

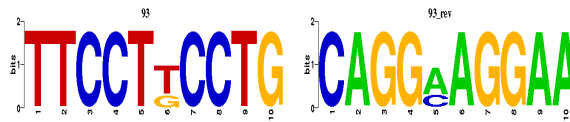
J_MA0080.2_SPI1 3.4569e-06

-CTTCCTGCCT
ACTTCCT----

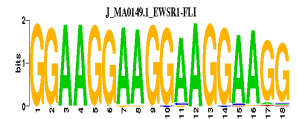
J_MA0144.1_Stat3 4.5713e-06

CTTCCTGCCT
CTTCNGGAA

93

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

J_MA0149.1_EWSR1-FLI 1.5064e-10

--TTCCTTCCTG-----
CCTTCCTTCCTTCCTTC

J_MA0156.1_FEV 1.5211e-06

TTCCTTCCTG
--AYTTCCTG

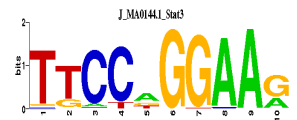
J_MA0026.1_Eip74EF 3.0476e-06

CAGGAAGGAA
CCGGAAR---

J_MA0080.2_SPI1 3.2796e-06

TTCCTTCCTG
--ACTTCCT-

J_MA0144.1_Stat3 4.3753e-06

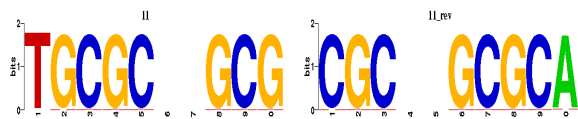
TTCCTTCCTG---
---CTTCNGGAA

55

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0144.1_Stat3	1.7300e-09	CTNCCTGG-- CTTCNNGGAA	
J_MA0156.1_FEV	4.8415e-06	-CTNCCTGG AYTTCCTG-	
J_MA0026.1_Eip74EF	1.7773e-05	CCAGGNAG -CCGGAAR	
J_MA0080.2_SPI1	1.9040e-05	-CTNCCTGG ACTTCCT--	
J_MA0154.1_EBF1	2.9624e-04	CTNCCTGG--- -TCCCTNGGGN	

11

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0162.1_Egr1	4.2887e-03	-CGCNGCGCA MCGCCACGCN	
J_MA0290.1_DAL81	5.7927e-03	---TGCGCNGCG----- AATCCCGCCCGCGCTTTT	

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J_MA0291.1_DAL82 9.4498e-03

CGCNGCGCA----

-----GCGCANWWN



J_MA0213.1_brk 1.0057e-02

TGCGCNGCG

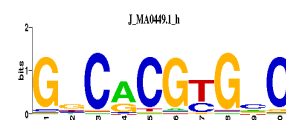
RGCGCCRS--



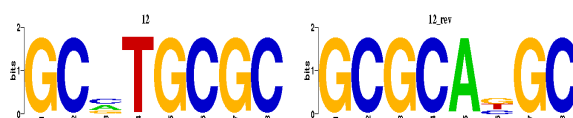
J_MA0449.1_h 1.4608e-02

TGCGCNGCG

GNCACGTGNC



12

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

J_MA0162.1_Egr1 4.2077e-04

--GCGCANGC--

MGCCCCACGCN



J_MA0322.1_INO4 1.3225e-03

-GCGCANGC

TTCACATGC



J_MA0321.1_INO2 1.3737e-03

-GCGCANGC

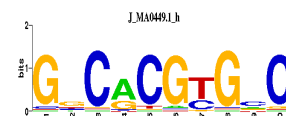
TTCACATGC



J_MA0449.1_h 1.3936e-03

-GCGCANGC-

GNCACGTGNC



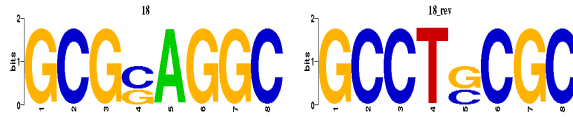
J_MA0291.1_DAL82 2.0260e-03

GCGCANGC-

GCGCANWWN

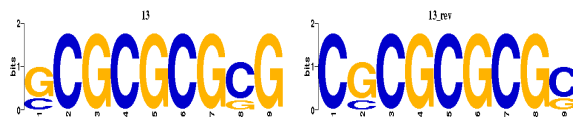


18

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	1.5636e-04	-GCGSAGGC GGCGGAGN-	
J_MA0162.1_Egr1	8.9682e-04	--GCCTSCGC- MCGCCCACGCN	
J_MA0146.1_Zfx	1.0373e-03	---GCGSAGGC--- NNGGCCNNGGCCTN	
J_MA0090.1_TEAD1	1.5966e-03	GCGSAGGC----- -CNSWGGAATGTR	
J_MA0131.1_MIZF	3.4326e-03	GCGSAGGC-- GCGGACGTTN	

13

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0375.1_RSC30	1.6367e-08	CGCGCGCGC- --CGCGCGSN	
J_MA0449.1_h	4.0496e-05	-GCGCGCGCG GNCACGTGNC	

J_MA0290.1_DAL81 5.8442e-05

-----GCGCGCGCG-----
 AATCCCGCCCGCGGCTTTT



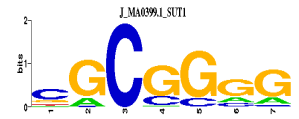
J_MA0162.1_Egr1 2.4452e-04

-GCGCGCGCG-
 NGCGTGGGCGK

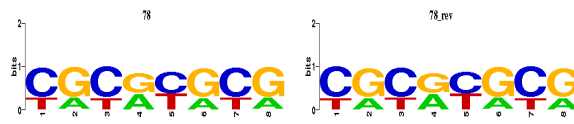


J_MA0399.1_SUT1 3.6831e-04

-CGCGCGCGC
 CCCC GCG---

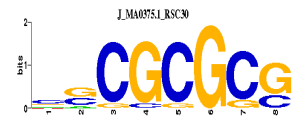


78

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

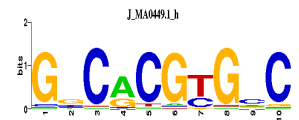
J_MA0375.1_RSC30 6.7717e-05

CGCRYGCG
 NSCGCGCG



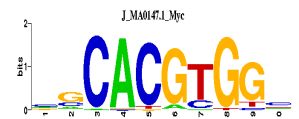
J_MA0449.1_h 1.8604e-04

CGCRYGCG--
 GNCACGTGNC



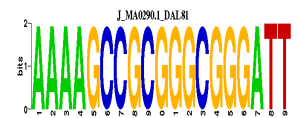
J_MA0147.1_Myc 1.4071e-03

--CGCRYGCG
 NCCACGTGSN



J_MA0290.1_DAL81 1.5370e-03

-----CGCRYGCG-----
 AATCCCGCCCGCGGCTTTT

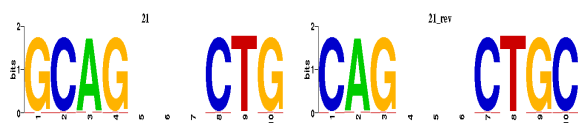


J_MA0357.1_PHO4 3.1520e-03

CGCRYGCG-
 -SCACGTGS

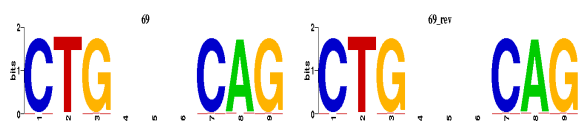


21

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	2.6386e-04	CAGNNNCTGC-- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	3.1336e-02	CAGNNNCTGC-- NCGCAGCTGCGN	
J_MA0126.1_ovo	1.4253e-01	GCAGNNNCTG NCNGTTACW-	
J_MA0239.1_prd	1.4253e-01	GCAGNNNCTG NCNGTTACW-	
J_MA0454.1_odd	2.4227e-01	GCAGNNNCTG-- -NTGCTACTGTN	

69

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0150.1_NFE2L2	1.8347e-02	--CTGNNNCAG TGCTINWGTCAY	
J_MA0099.2_API	3.7380e-02	CTGNNNCAG -TGAGTCA-	

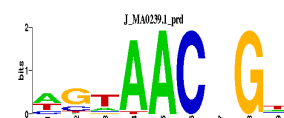
J_MA0099.1_Fos 8.9378e-02

CTGNNNCAG
-TGANTCAC

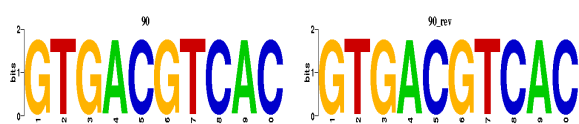
J_MA0126.1_ovo 1.2343e-01

-CTGNNNCAG
NCNGTTACW-

J_MA0239.1_prd 1.2343e-01

-CTGNNNCAG
NCNGTTACW-

90

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

J_MA0018.2_CREB1 3.0674e-12

GTGACGTCAC
-TGACGTCA-

J_MA0096.1_bZIP910 1.1714e-06

GTGACGTCAC
---ACGTCAK

J_MA0129.1_TGA1A 1.3793e-06

GTGACGTCAC
-TGACGTN--

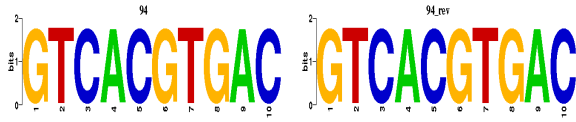
J_MA0447.1_gt 2.8267e-05

GTGACGTCAC
RTTACGTAAY

J_MA0018.1_CREB1 3.6146e-05

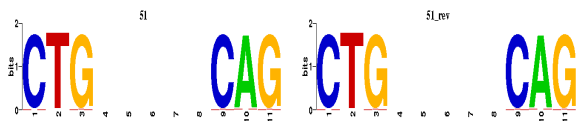
GTGACGTCAC----
--NACGTCANCMNN

94

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0409.1_TYE7	2.4158e-10	GTCACGTGAC -TCACGTG--	
J_MA0281.1_CBF1	8.6471e-09	GTCACGTGAC -TCACGTGN-	
J_MA0449.1_h	1.7399e-08	GTCACGTGAC GNCACGTGNC	
J_MA0104.1_Mycn	2.7533e-08	GTCACGTGAC --CACGTG--	
J_MA0004.1_Arnt	3.3899e-08	GTCACGTGAC --CACGTG--	

51

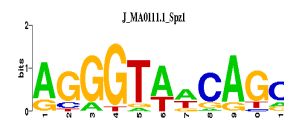
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0332.1_MET28	3.3232e-01	CTGNNNNNCAG -----CCACAG	
J_MA0086.1_sna	3.3450e-01	---CTGNNNNNCAG CACCTG-----	

J_MA0207.1_achi 3.4960e-01

CTGNNNNNCAG
-----TGACAG

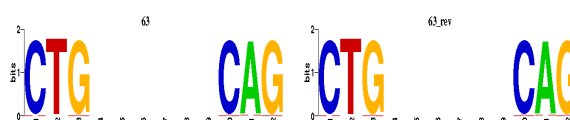
J_MA0111.1_Spz1 3.6391e-01

-CTGNNNNNCAG
GCTGWTACCCT-

J_MA0227.1_hth 4.2675e-01

CTGNNNNNCAG
CTGTCA-----

63

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

J_MA0332.1_MET28 3.6932e-01

CTGNNNNNNCAG
-----CCACAG

J_MA0086.1_sna 3.7158e-01

---CTGNNNNNNCAG
CACCTG-----

J_MA0150.1_NFE2L2 3.8647e-01

CTGNNNNNNCAG
-TGCTNWTGTCAY

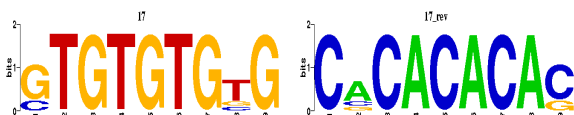
J_MA0207.1_achi 3.8724e-01

CTGNNNNNNCAG
-----TGACAG

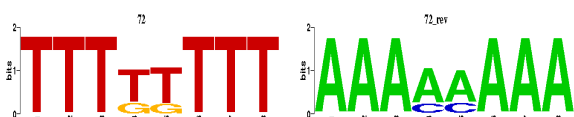
J_MA0227.1_hth 4.6623e-01

CTGNNNNNNCAG
CTGTCA-----

17

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0359.1_RAP1	4.7787e-05	-GTGTGTGTG TGTATGGGTG	
J_MA0009.1_T	1.8276e-03	--CACACACAC TTCACACCTAG	
J_MA0343.1_NDT80	2.1305e-03	-----CACACACAC----- NNNNNNNGMCACAAAANCNNNN	
J_MA0327.1_MATA1	2.2815e-03	GTGTGTGTG -ATTGTGY-	
J_MA0162.1_Egr1	4.1157e-03	-GTGTGTGTG- NGCGTGGGCGK	



72

*forward**reverse compliment*

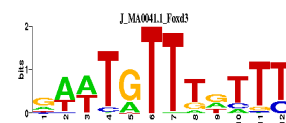
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	1.6674e-07	AAAAAAAAA- AAAAAGAAA	
J_MA0049.1_hb	5.2995e-06	-TTTTTTTTT- NTTTTTNYKS	

Stamp Results

11/22/15

J_MA0041.1_Foxd3 1.9982e-05

----TTTTTTTT
NAWTGTTTNTTT



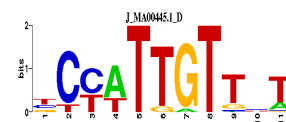
J_MA0010.1_br_Z1 4.7523e-04

-TTTTTTTT-----
NWYTTGTYTATNAN



J_MA00445.1_D 5.7006e-04

AAAAAAAAA---
ANAACAATRGN



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STAMP is written by Shaun Mahony