

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

Input file: 90 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:      -----ATGCAAAT---
1:      -----GGGTGKGG-----
2:      ---TTGTTATGCA-----
3:      ---TGCATATGCA-----
4:      -----CCCCNCCC-----
5:      -----CCCYTCCC-----
6:      -----GGGGTGGG-----
7:      -----TTTTNTTT-----
8:      -----CCTCCCCC-----
9:      -----RYGCGCRY---
10:     -----ATATATAT-----
11:     -----CCYCYCCC-----
12:     --TTTGTCATGC-----
13:     -----CYTTTGTTWT-----
14:     -----CCCCCMCC---
15:     ----CTTCCTGCCT-----
16:     ----GCCCCCKCC-----
17:     ----CTCCCTGCTG-----
18:     -----TSCTGCTGNG---
19:     ---ATGACCTTG-----
20:     -----CTGCWGCT---
21:     ----CWGCCTGCCT-----
22:     -----GCTCCTCCT---
```

Stamp Results

11/21/15

```

23: -----TWTGCATGAC--
24: -----GGCTGSAG-----
25: ---GCYTCCTG-----
26: -----YCTGCCTCY---
27: -----CCTTTGTCW---
28: -----CTNCCTCC---
29: -----CTTCCWGG---
30: -----CTGCTCTG---
31: -----CYCTGCCTNC---
32: -----YATGCGCATR--
33: -----CCTGCTGGGA--
34: --ATGCGCATGC-----
35: --CTCCTGCTGC-----
36: -----GGCTGGGCTS---
37: -----GCCTGGCTCC---
38: -----YATATRYA-----
39: --CTYTCTCT-----
40: -----MATATGCANA----
41: -----GRGCTGGGWG----
42: -----GSCTTCCTNT---
43: -----CAGCTGCTGS----
44: -----CTGCTNTG---
45: -----CTTCCYTT---
46: -----CTCCTNCC-----
47: -----TATKCATG----
48: -----TGGCTGCCTG----
49: -----CWGCTCCC---
50: -----TGTGTGTGT-
51: -----CTTYCTCT---
52: -----CCTCCWGC-----
53: -----WTGCATATKC-
54: -----CNTCTGCATA----
55: -----RGGCTGGGS-----
56: -----CCTTTGTNA---
57: -----CTCCWGGG---
58: -----YTTCTGAG-----
59: -----CTGGGAGGAR-
60: -----GGGGSTGG-----
61: -----CYTYCYTT----
62: --CAGAGCCTGG-----
63: -----CWGCTGCTCT----
64: -----CTKCCCTG---
65: ----TTCCCTTT-----

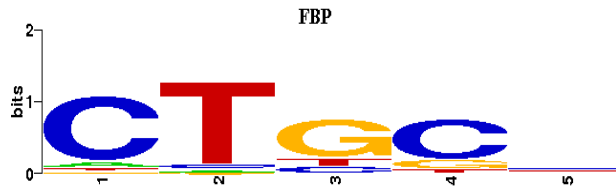
```

```

66:      --CTGCTCCTGC-----
67:      -----RGCTGCAGCY---
68:      -----CNCTGCTGNG---
69:      ---CTTTCCTGGC-----
70:      -----CWGCTCTGGG-
71:      ----YTTTCCTGCTG-----
72:      -----CWGCTGGGWG-
73:      -----CCYCCYCY----
74:      ----SACTTCC-----
75:      ----CAGSCTGC-----
76:      -----CCTCYCCA----
77:      --CTTTSTCT-----
78:      ----GCTCWGCA-----
79:      -----TNCTTTGTTW
80:      -----CTGAAAGGMA-
81:      -----GCTCCACCC---
82:      -----CTSCTCTG---
83:      -----TCCTGGCTNT---
84:      ----CCCCYYCC-----
85:      -----WGCTGCCTNC---
86:      -----CYCTGCTGCTG---
87:      ----CTTCCTGRG-----
88:      CTCTGCCTCTGC-----
89:      -----GCCGCCGCC---

```

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



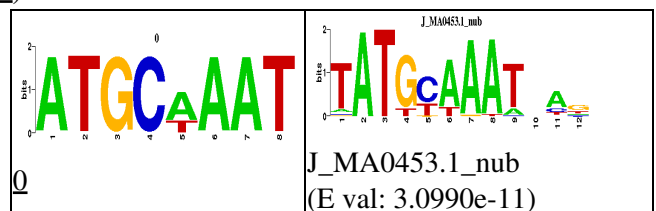
Motif Tree

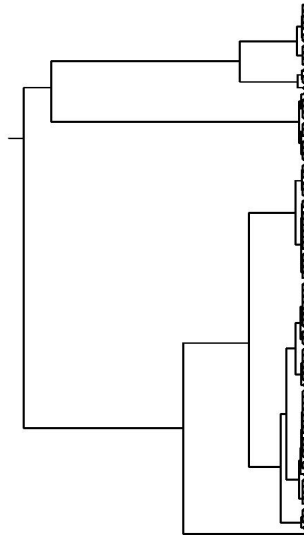
Tree (drawn by [Phylip](#))

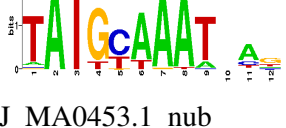
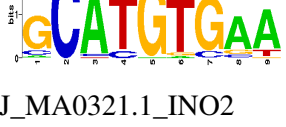
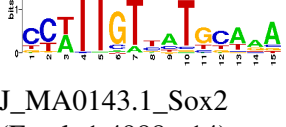
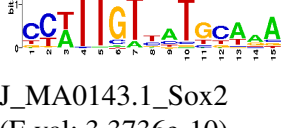
[Click here for Newick-format tree](#) (viewable with [MEGA](#))

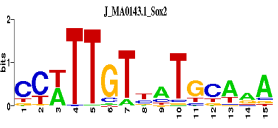
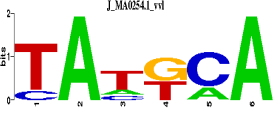
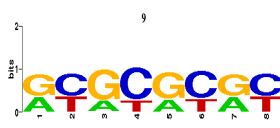
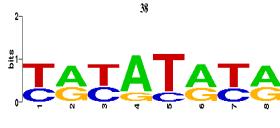
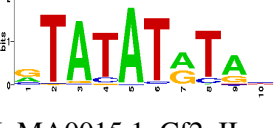
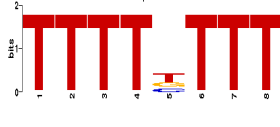
Input Motif

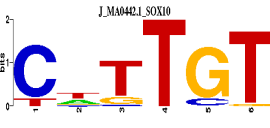
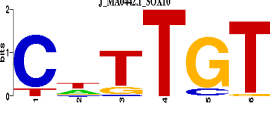
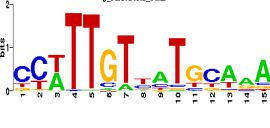
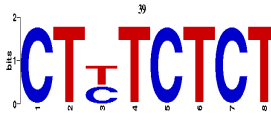
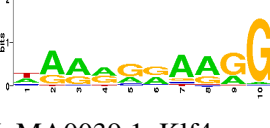
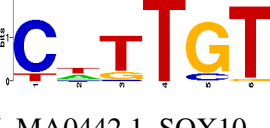
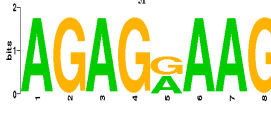
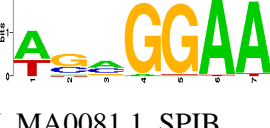
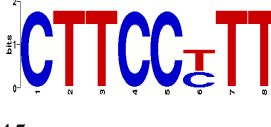
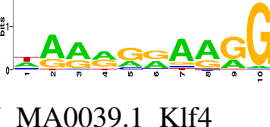
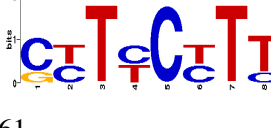
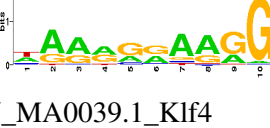
Best match in
user-defined

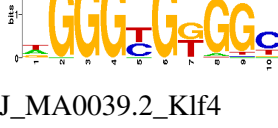
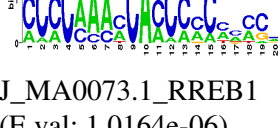
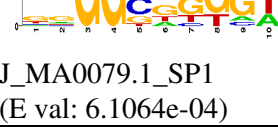
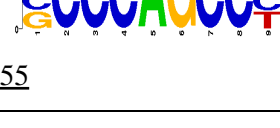
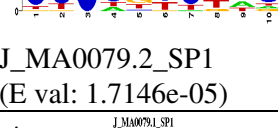
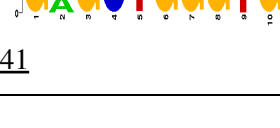
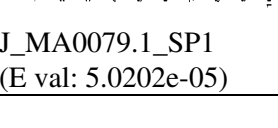




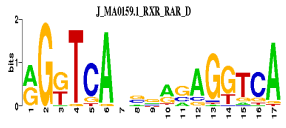
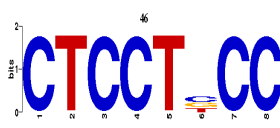
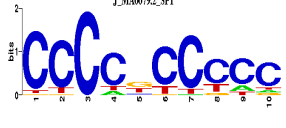
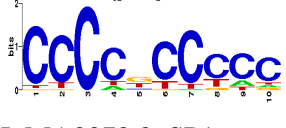
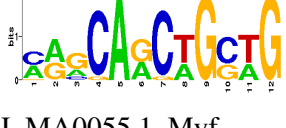
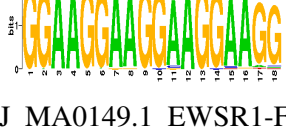
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 <u>3</u>	 J_MA0254.1_vv1 (E val: 1.4338e-06)
 <u>53</u>	 J_MA0254.1_vv1 (E val: 1.4338e-06)
 <u>40</u>	 J_MA0453.1_nub (E val: 2.6024e-08)
 <u>32</u>	 J_MA0254.1_vv1 (E val: 3.1059e-03)
 <u>34</u>	 J_MA0321.1_INO2 (E val: 1.4147e-05)
 <u>2</u>	 J_MA0143.1_Sox2 (E val: 1.4988e-14)
 <u>12</u>	 J_MA0143.1_Sox2 (E val: 3.3736e-10)

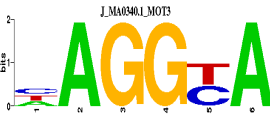
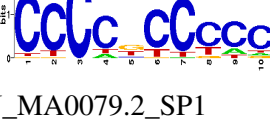
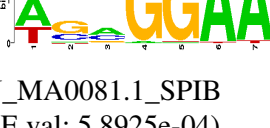
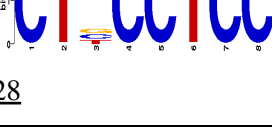
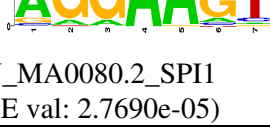
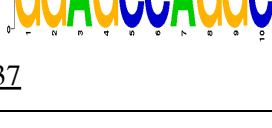
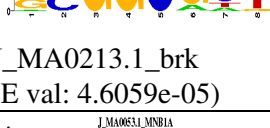
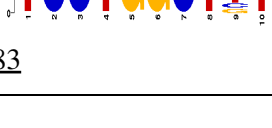
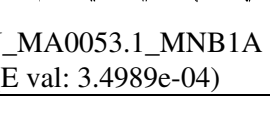
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 47	 J_MA0254.1_vv1 (E val: 1.9253e-08)
 9	 J_MA0375.1_RSC30 (E val: 1.6931e-04)
 10	 J_MA0015.1_Cf2_II (E val: 1.2976e-08)
 38	 J_MA0015.1_Cf2_II (E val: 1.8352e-09)
 50	 J_MA0359.1_RAP1 (E val: 2.7183e-05)
 7	 J_MA0277.1_AZF1 (E val: 1.1710e-07)
 13	 J_MA0143.1_Sox2 (E val: 8.3933e-12)

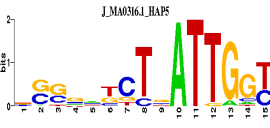
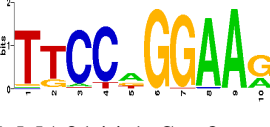
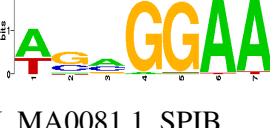
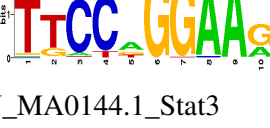
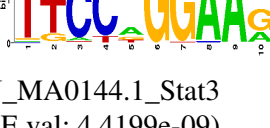
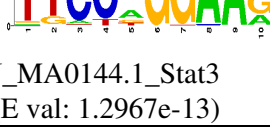
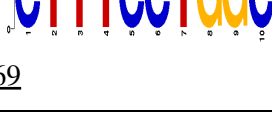
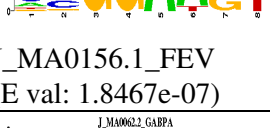
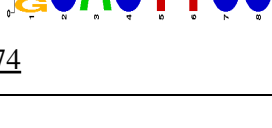
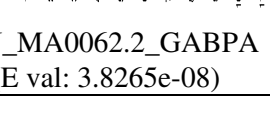
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 56	 J_MA0143.1_Sox2 (E val: 5.4058e-10)
 39	 J_MA0039.1_Klf4 (E val: 1.0193e-04)
 77	 J_MA0442.1_SOX10 (E val: 2.1517e-06)
 51	 J_MA0081.1_SPIB (E val: 3.9511e-08)
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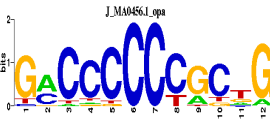
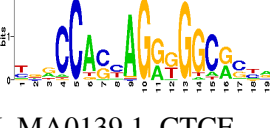
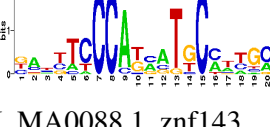
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 1	 J_MA0039.2_Klf4 (E val: 3.6200e-10)
 6	 J_MA0039.2_Klf4 (E val: 6.5843e-06)
 60	 J_MA0073.1_RREB1 (E val: 1.0164e-06)
 36	 J_MA0079.1_SP1 (E val: 6.1064e-04)
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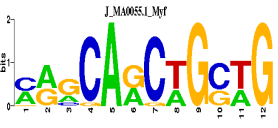
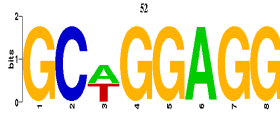
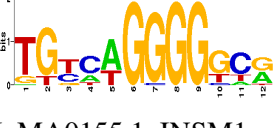
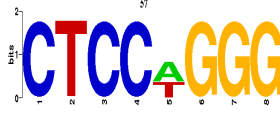
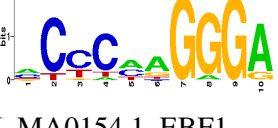
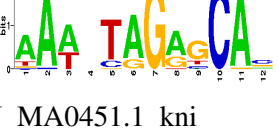
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16	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 1.3330e-08)
5	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 2.4577e-07)
84	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 1.4990e-08)
14	J_MA0140.1_Tal1_Gata J_MA0140.1_Tal1_Gata (E val: 3.5367e-08)
8	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 1.8779e-09)
11	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 9.1850e-08)
73	J_MA0079.2_SP1 J_MA0079.2_SP1 (E val: 2.4898e-06)

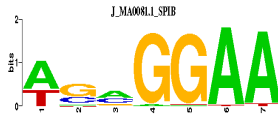
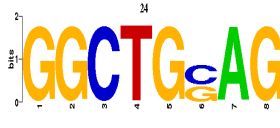
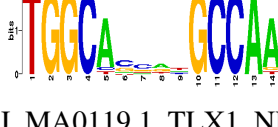
 <u>76</u>	 J_MA0159.1_RXR_RAR_D (E val: 2.8025e-06)
 <u>22</u>	 J_MA0283.1_CHA4 (E val: 2.3814e-04)
 <u>46</u>	 J_MA0079.2_SP1 (E val: 4.5291e-05)
 <u>59</u>	 J_MA0079.2_SP1 (E val: 3.0498e-04)
 <u>81</u>	 J_MA0039.2_Klf4 (E val: 1.6706e-07)
 <u>49</u>	 J_MA0055.1_Myf (E val: 1.6678e-04)
 <u>15</u>	 J_MA0149.1_EWSR1-FLI (E val: 1.3353e-09)
 <u>21</u>	 J_MA0149.1_EWSR1-FLI (E val: 3.3268e-05)

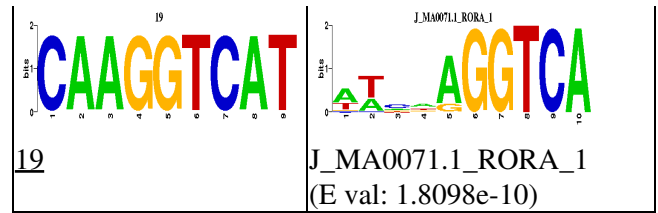
 48	 J_MA0340.1_MOT3 (E val: 2.8399e-04)
 85	 J_MA0055.1_Myf (E val: 7.8031e-05)
 26	 J_MA0443.1_btd (E val: 1.0966e-04)
 31	 J_MA0079.2_SP1 (E val: 1.5197e-04)
 88	 J_MA0081.1_SPIB (E val: 5.8925e-04)
 28	 J_MA0080.2_SPI1 (E val: 2.7690e-05)
 37	 J_MA0213.1_brk (E val: 4.6059e-05)
 83	 J_MA0053.1_MNB1A (E val: 3.4989e-04)

 62	 J_MA0316.1_HAP5 (E val: 7.3910e-03)
 25	 J_MA0144.1_Stat3 (E val: 4.1957e-07)
 42	 J_MA0081.1_SPIB (E val: 1.7107e-07)
 29	 J_MA0144.1_Stat3 (E val: 5.9151e-11)
 87	 J_MA0144.1_Stat3 (E val: 4.4199e-09)
 58	 J_MA0144.1_Stat3 (E val: 1.2967e-13)
 69	 J_MA0156.1_FEV (E val: 1.8467e-07)
 74	 J_MA0062.2_GABPA (E val: 3.8265e-08)

 <u>17</u>	 J_MA0456.1_opa (E val: 1.9606e-07)
 <u>71</u>	 J_MA0156.1_FEV (E val: 1.5651e-08)
 <u>35</u>	 J_MA0055.1_Myf (E val: 3.5329e-07)
 <u>86</u>	 J_MA0055.1_Myf (E val: 9.2991e-06)
 <u>18</u>	 J_MA0454.1_odd (E val: 2.0059e-06)
 <u>68</u>	 J_MA0139.1_CTCF (E val: 2.0764e-05)
 <u>33</u>	 J_MA0088.1_znf143 (E val: 8.2937e-06)
 <u>72</u>	 J_MA0402.1_SWI5 (E val: 1.0593e-04)

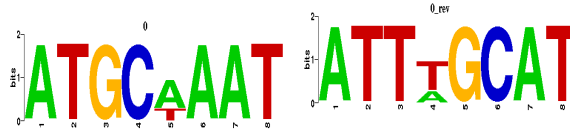
 20	 J_MA0055.1_Myf (E val: 5.1425e-07)
 63	 J_MA0055.1_Myf (E val: 1.0447e-06)
 43	 J_MA0055.1_Myf (E val: 1.2527e-10)
 66	 J_MA0454.1_odd (E val: 6.3761e-07)
 52	 J_MA0155.1_INSM1 (E val: 8.8949e-04)
 57	 J_MA0154.1_EBF1 (E val: 5.9631e-06)
 78	 J_MA0150.1_NFE2L2 (E val: 1.0025e-06)
 30	 J_MA0451.1_kni (E val: 8.5118e-05)

 82	 J_MA0081.1_SPIB (E val: 1.7316e-04)
 44	 J_MA0053.1_MNB1A (E val: 3.4972e-04)
 70	 J_MA0451.1_kni (E val: 2.2671e-04)
 64	 J_MA0364.1_REI1 (E val: 1.6870e-04)
 24	 J_MA0410.1_UGA3 (E val: 1.1597e-04)
 67	 J_MA0055.1_Myf (E val: 9.6875e-05)
 75	 J_MA0119.1_TLX1_NFIC (E val: 4.6957e-03)
 89	 J_MA0412.1_UME6 (E val: 3.3204e-06)



Motif Similarity Matches

0

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

J_MA0453.1_nub

3.0990e-11

---ATGCAAAT---

TATGCAAATNAN

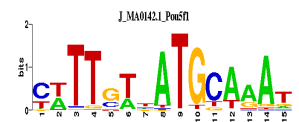


J_MA0142.1_Pou5f1

8.5761e-11

-----ATGCAAAT

CWTTGTNATGCAAAT



J_MA0143.1_Sox2

4.6042e-07

-----ATGCAAAT

CCWTTGTNATGCANA-



J_MA0274.1_ARR1

1.6628e-06

ATGCAAAT

ATTCARNT



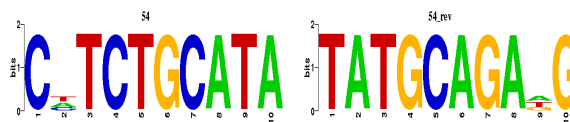
J_MA0328.1_MATALPHA2 1.5287e-05

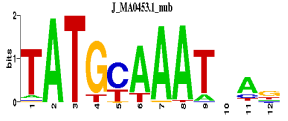
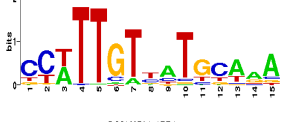
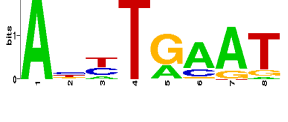
-ATGCAAAT

CAIGTAATT

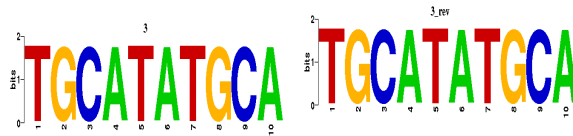


54

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0453.1_nub	1.1829e-06	TATGCAGANG-- TATGCAAATNAN	
J_MA0254.1_vvl	1.4338e-06	CNTCTGCATA ----TGMATA	
J_MA0142.1_Pou5f1	4.2333e-06	-----TATGCAGANG CWTGTGNATGCAAAT-	
J_MA0143.1_Sox2	1.1248e-04	CNTCTGCATA----- --TNTGCATNACAAWGG	
J_MA0274.1_ARR1	1.4375e-03	TATGCAGANG -ATTCARNT-	

3

*forward**reverse compliment*

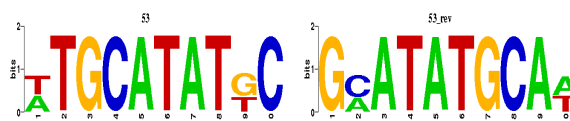
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0254.1_vvl	1.4338e-06	TGCATATGCA TGMATA----	
J_MA0321.1_INO2	8.5442e-06	TGCATATGCA -GCATGTGAA	
J_MA0322.1_INO4	1.2403e-05	TGCATATGCA TTCACATGC-	
J_MA0249.1_twi	4.2555e-05	-TGCATATGCA- NAACANATGCNN	

J_MA0142.1_Pou5f1 1.0930e-04

--TGCATATGCA--
CWTGTNATGCAAAT

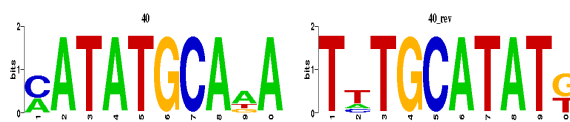


53

*forward**reverse compliment*

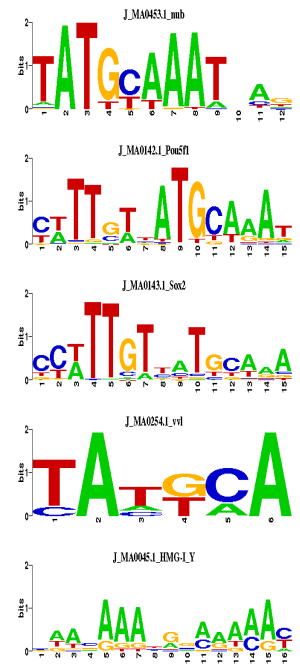
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0254.1_vv1	1.4338e-06	WTGCATATKC -TGMATA---	
J_MA0453.1_nub	2.1016e-05	-GMATATGCAW- NTNATTTGCATA	
J_MA0321.1_INO2	3.2687e-05	WTGCATATKC -TTCACATGC	
J_MA0322.1_INO4	5.3022e-05	WTGCATATKC -TTCACATGC	
J_MA0249.1_twi	5.8352e-05	--GMATATGCAW NAACANATGCNN	

40

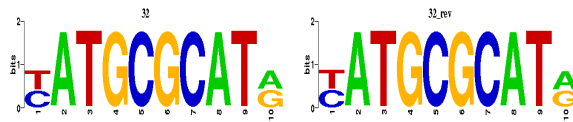
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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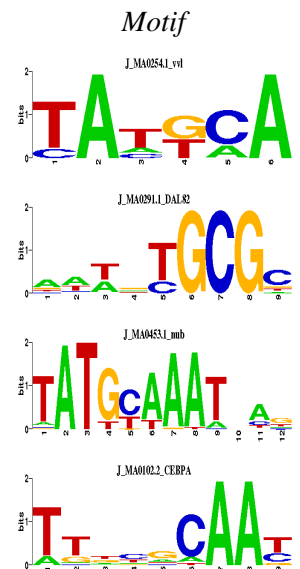
J_MA0453.1_nub	2.6024e-08	MATATGCANA----- --TATGCAATNAN
J_MA0142.1_Pou5f1	7.7393e-08	-----MATATGCANA- CWTGTGNATGCAAAAT
J_MA0143.1_Sox2	3.4848e-07	TNTGCATATK----- TNTGCATNACAAWGG
J_MA0254.1_vv1	1.4338e-06	TNTGCATATK --TGMATA--
J_MA0045.1_HMG-I_Y	2.9711e-05	---TNTGCATATK--- RTTTYKNYNTTTNTNN



32

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
J_MA0254.1_vv1	3.1059e-03	YATGCGCATR ----TGMATA
J_MA0291.1_DAL82	3.1318e-03	YATGCGCATR-- ---GCGCANWWN
J_MA0453.1_nub	3.1462e-03	--YATGCGCATR NTNATTTGCATA
J_MA0102.2_CEBPA	3.2514e-03	YATGCGCATR -TTNNNCAAY

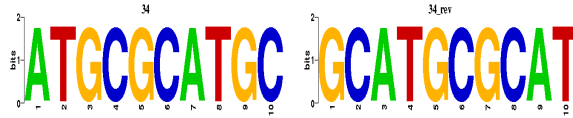


J_MA0142.1_Pou5f1 3.3882e-03

YATGCGCATR-----
 -ATTGTCATNACAAG



34

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

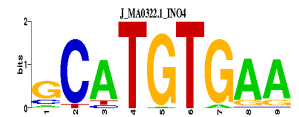
J_MA0321.1_INO2 1.4147e-05

GCATGCGCAT
 GCATGTGAA-



J_MA0322.1_INO4 1.5455e-05

ATGCGCATGC
 -TTCACATGC



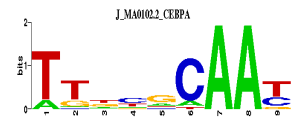
J_MA0449.1_h 1.3839e-03

-GCATGCGCAT
 GNCACGTGNC-



J_MA0102.2_CEBPA 3.2514e-03

GCATGCGCAT-
 --TTNNNCAAY

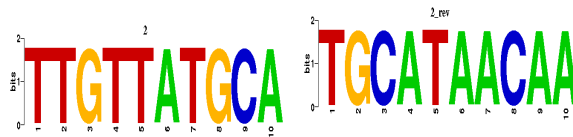


J_MA0357.1_PHO4 4.9035e-03

ATGCGCATGC
 --SCACGTGS



2

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

Stamp Results

11/21/15

J_MA0143.1_Sox2 1.4988e-14

--TGCATAACAA--
TNTGCATNACAAGG



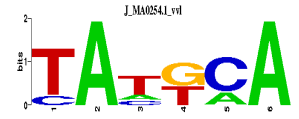
J_MA0142.1_Pou5f1 2.6645e-14

---TGCATAACAA--
ATTTGCATNACAAG



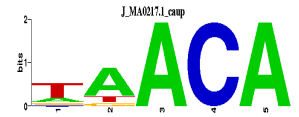
J_MA0254.1_vv1 1.4338e-06

TGCATAACAA
TGMATA----



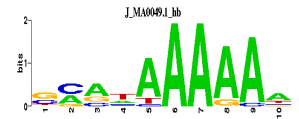
J_MA0217.1_caup 8.7315e-06

TTGTTATGCA
-TGTTA----

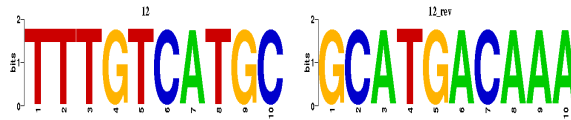


J_MA0049.1_hb 8.3572e-05

-TTGTTATGCA
NTTTTTNYKS-

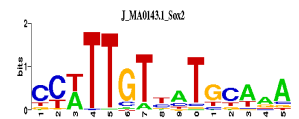


12

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

J_MA0143.1_Sox2 3.3736e-10

---GCATGACAAA--
TNTGCATNACAAGG



J_MA0142.1_Pou5f1 6.0922e-10

---GCATGACAAA--
ATTTGCATNACAAG



J_MA0321.1_INO2 4.7966e-06

GCATGACAAA
GCATGTGAA-



J_MA0322.1_INO4 1.6719e-05

TTTGT CATGC
-TTCATGC

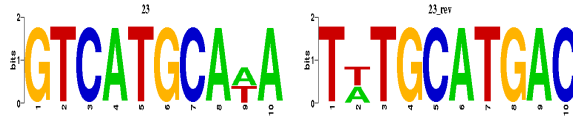


J_MA0252.1_vis

6.7282e-05

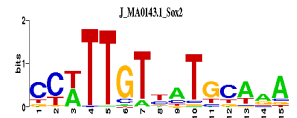
TTTGTTCATGC
-NTGTCA---

23

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

J_MA0143.1_Sox2

8.8274e-10

TWTGTCATGAC-----
TNTGTCATNACAAGG

J_MA0142.1_Pou5f1

2.8375e-09

----GTCATGCAWA-
CWTGTGNATGCAAAT

J_MA0254.1_vv1

5.3012e-05

GTCATGCAWA
----TGMATA

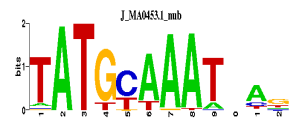
J_MA0089.1_NFE2L1_Ma

8.0204e-05

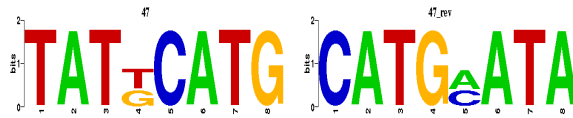
GTCATGCAWA
GTCATN----

J_MA0453.1_nub

8.8649e-05

----TWTGTCATGAC
NTNATTGTCATA--

47

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

Stamp Results

11/21/15

J_MA0254.1_vvl 1.9253e-08

CATGMATA
--TGMATA

J_MA0274.1_ARR1 5.7083e-04

TATKCATG-
-ATTCARNT

J_MA0453.1_nub 7.0315e-04

TATKCATG----
TATGCAAATNAN

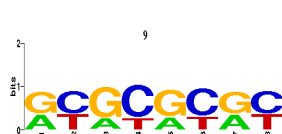
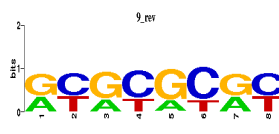
J_MA0001.1_AGL3 1.4910e-03

-TATKCATG-
CTATWTWTGG

J_MA0142.1_Pou5f1 2.3592e-03

-CATGMATA-----
ATTGTCATNACAAWG

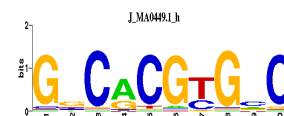
9

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

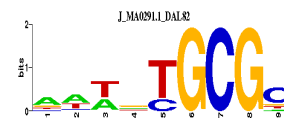
J_MA0375.1_RSC30 1.6931e-04

RYGCGCRY-
-CGCGCGSN

J_MA0449.1_h 5.0975e-04

-RYGCGCRY-
GNCACGTGNC

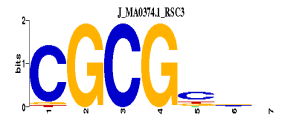
J_MA0291.1_DAL82 5.2764e-04

RYGCGCRY---
--GCGCANWWN

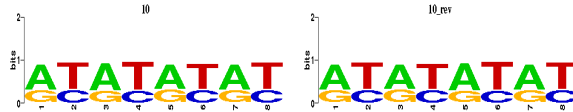
J_MA0405.1_TEA1 6.1340e-04

RYGCGCRY
NWGYSCGC

J_MA0374.1_RSC3 3.1820e-03

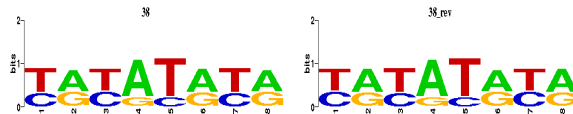
RYGCGCRY
NNNCGCG-

10

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0015.1_Cf2_II	1.2976e-08	--ATATATAT NTAYATATAY	
J_MA0386.1_TBP	2.4844e-06	-----ATATATAT----- NNNNNGNWTATATATNNNNN	
J_MA0379.1_SIG1	2.0984e-04	ATATATAT ---TATAT	
J_MA0345.1_NHP6A	2.4800e-03	-----ATATATAT----- NNNNNYNNTATATAANNNNNN	
J_MA0047.1_Foxa2	3.3163e-03	--ATATATAT-- AARYAAATANTN	

38

*forward**reverse complement*

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

11/21/15

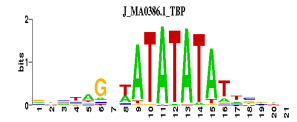
J_MA0015.1_Cf2_II 1.8352e-09

-TRYATATR-
NTAYATATAY



J_MA0386.1_TBP 5.7114e-05

-----TRYATATR-----
NNNNNATATATATWNCNNNNN



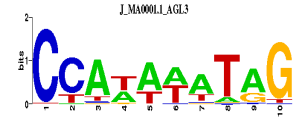
J_MA0379.1_SIG1 2.9820e-04

YATATRYA
TATAT---



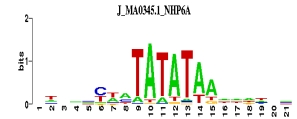
J_MA0001.1_AGL3 7.0022e-04

-TRYATATR-
CTATWTWGG

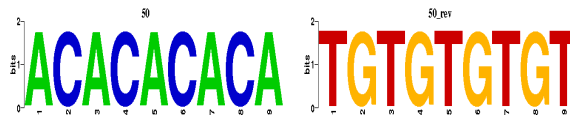


J_MA0345.1_NHP6A 9.6317e-04

-----TRYATATR-----
NNNNNNTTATATANNRNNNNN



50



forward

reverse compliment

Name

E value

Alignment

Motif

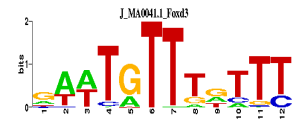
J_MA0359.1_RAP1 2.7183e-05

TGTGTGTGT-
TGTATGGGTG



J_MA0041.1_Foxd3 4.3522e-04

ACACACACA---
AAANAAACAWTN



J_MA0042.1_FOXI1 1.4719e-03

ACACACACA---
AWAYAAAYANNN



J_MA0327.1_MATA1 3.2252e-03

--TGTGTGTGT
ATTGTGY----



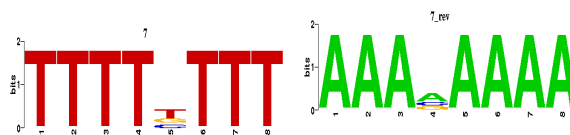
J_MA0009.1_T

3.7189e-03

—ACACACACA—
TTCACACCTAG



7

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

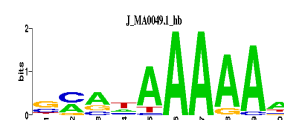
J_MA0277.1_AZF1 1.1710e-07

TTTTNTTT—
TTTCTTTT



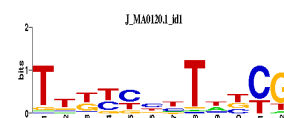
J_MA0049.1_hb 1.2164e-05

—TTTTNTTT—
NTTTTNYKS



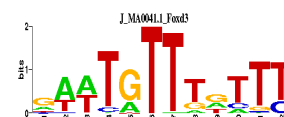
J_MA0120.1_id1 6.9587e-05

----AAANAAAA
CGNNANRRMNA



J_MA0041.1_Foxd3 1.4000e-04

AAANAAAA----
AAANAAACAWTN

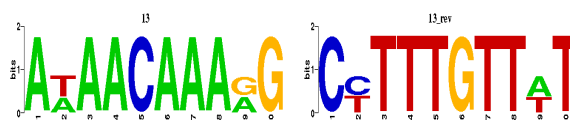


J_MA0010.1_br_Z1 2.8272e-04

—TTTTNTTT----
NWYTTGTYTATNAN



13

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

Stamp Results

11/21/15

J_MA0143.1_Sox2 8.3933e-12

-----AWAACAAARG
TNTGCATNACAAGG



J_MA0142.1_Pou5f1 2.1143e-08

-----AWAACAAARG
ATTTCATNACAAG--



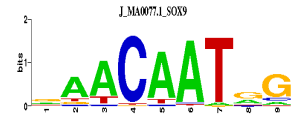
J_MA00445.1_D 3.2606e-08

AWAACAAARG--
ANAACAATRGN



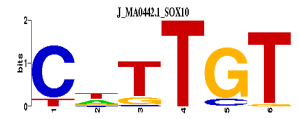
J_MA0077.1_SOX9 1.2390e-06

CYTTTGTTWT
CYATTGTTN--



J_MA0442.1_SOX10 2.1417e-06

AWAACAAARG
---ACAAWG--

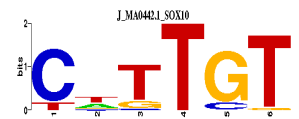


79

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

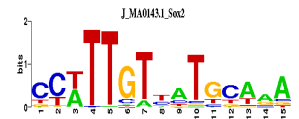
J_MA0442.1_SOX10 4.2013e-07

WAACAAAGNA
--ACAAWG--



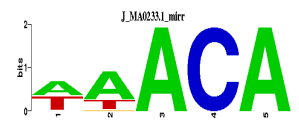
J_MA0143.1_Sox2 7.4100e-07

TNCTTTGTTW-----
-CCWTTGTNATGCANA



J_MA0233.1_mirr 8.9634e-06

TNCTTTGTTW
-----TGTTW



J_MA0210.1_ara 2.0533e-05

TNCTTTGTTW
-----TGTTW

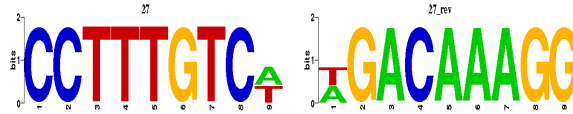


J_MA0077.1_SOX9 3.6162e-05

TNCTTTGTTW
-CYATTGTTN



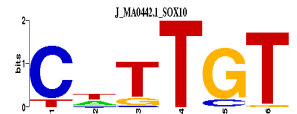
27

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

J_MA0442.1_SOX10

2.1068e-07

WGACAAAGG
--ACAAG--



J_MA0143.1_Sox2

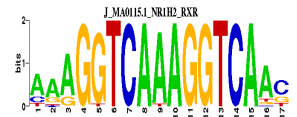
5.9910e-07

CCTTTGTCW-----
CCWTTGTNATGCANA



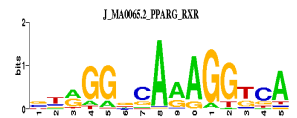
J_MA0115.1_NR1H2_RXR 4.4750e-05

---WGACAAAGG-----
AAAGGTCAAAGGTCAAS



J_MA0065.2_PPARG_RXR 1.0577e-04

---WGACAAAGG---
NNRGGNCAAAGGKCA

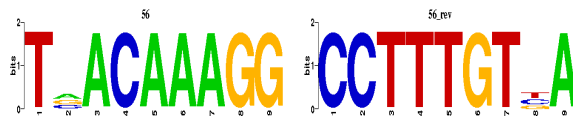


J_MA0065.1_PPARG_RXR 1.0771e-04

-----CCTTTGTCW-----
NNNTGACCTTTGACCYCINN



56

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

Stamp Results

11/21/15

J_MA0143.1_Sox2 5.4058e-10

CCTTTGTNA-----
CCWTTGTNATGCANA



J_MA0442.1_SOX10 2.1068e-07

TNACAAAGG
--ACAAG--



J_MA0142.1_Pou5f1 2.2138e-06

-----TNACAAAGG
ATTTGCATNACAAAG--



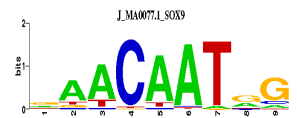
J_MA00445.1_D 1.6399e-05

-TNACAAAGG-
ANAACAATRGN

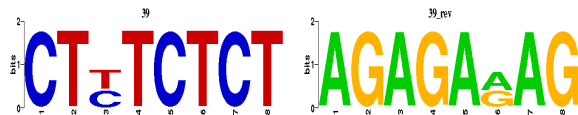


J_MA0077.1_SOX9 3.0121e-05

CCTTTGTNA
CYATTGTTN



39



forward

reverse complement

Name

E value

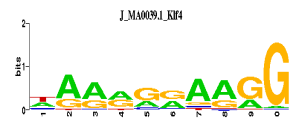
Alignment

Motif

J_MA0039.1_Klf4

1.0193e-04

-CTYTCTCT-
CCTTYYYTTN



J_MA0081.1_SPIB

4.5403e-04

CTYTCTCT
-TTCKST



J_MA0277.1_AZF1

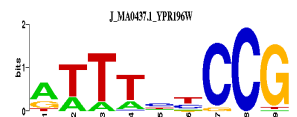
7.1966e-04

CTYTCTCT--
-TTTCTTTT



J_MA0437.1_YPR196W 1.1206e-03

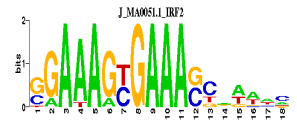
-AGAGARAG
CGGRNAAAT



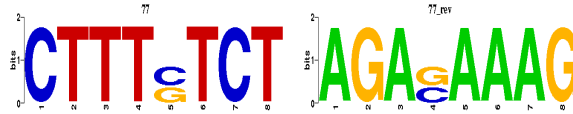
J_MA0051.1_IRF2

1.8169e-03

-----CTYTCTCT-----
 NNWWNRSTTTTCRCTTTCS

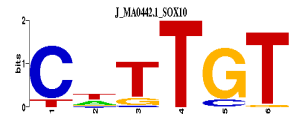


77

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

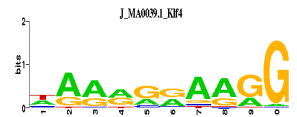
J_MA0442.1_SOX10 2.1517e-06

AGASAAAG
 --ACAAWG



J_MA0039.1_Klf4 8.0030e-05

-AGASAAAG-
 NAARRRAAGG



J_MA0081.1_SPIB 3.2409e-04

CTTTSTCT
 -TTCKST



J_MA0277.1_AZF1 5.1071e-04

CTTTSTCT--
 -TTTCTTTT



J_MA0010.1_br_Z1 6.2671e-04

-CTTTSTCT-----
 NWYTTGTYTATNAN



51

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

Stamp Results

11/21/15

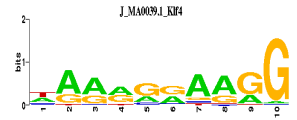
J_MA0081.1_SPIB 3.9511e-08

CTTYCTCT
-TTCKST



J_MA0039.1_Klf4 3.3679e-07

-AGAGRAAG-
NAARRRAAG



J_MA0080.2_SPI1 1.9524e-06

-CTTYCTCT
ACTTCCT--



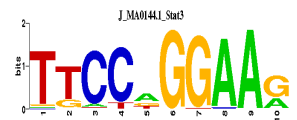
J_MA0370.1_RME1 2.8313e-04

CTTYCTCT---
-TNCCTTTNNA

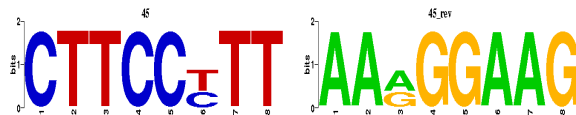


J_MA0144.1_Stat3 4.1068e-04

CTTYCTCT--
CTTCCNGGAA



45



forward

reverse compliment

Name

E value

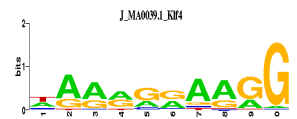
Alignment

Motif

J_MA0039.1_Klf4

1.0158e-09

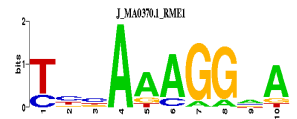
-AARGGAAG-
NAARRRAAG



J_MA0370.1_RME1

2.9043e-07

CTTCCYTT---
-TNCCTTTNNA



J_MA0080.2_SPI1

7.8221e-07

-CTTCCYTT
ACTTCCT--



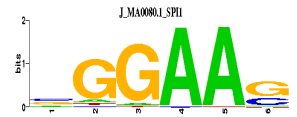
J_MA0149.1_EWSR1-FLI 2.7356e-06

-----AARGGAAG-----
GGAAGGAAGGAAGGAAGG

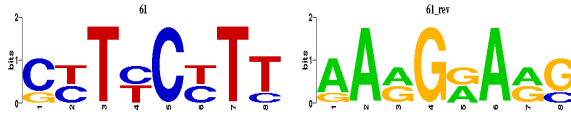


J_MA0080.1_SPI1

4.2939e-05

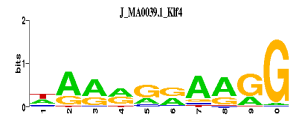
CTTCYTT
STCCN--

61

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

J_MA0039.1_Klf4

1.6483e-10

-AARGRARG-
NAARRRAAGG

J_MA0149.1_EWSR1-FLI 1.1606e-05

--AARGRARG-----
GGAAGGAAGGAAGGAAGG

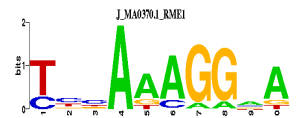
J_MA0277.1_AZF1

1.1749e-05

CYTYCYTT--
-TTCTTTTT

J_MA0370.1_RME1

3.6072e-05

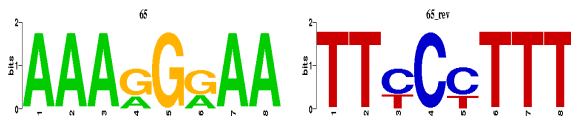
CYTYCYTT---
-TNCCTTTNNA

J_MA0080.2_SPI1

1.7412e-04

AARGRARG-
--AGGAAGT

65

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

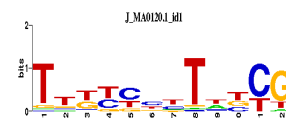
J_MA0277.1_AZF1 6.3003e-08

—AAAGGGAA
AAAAAGAAA



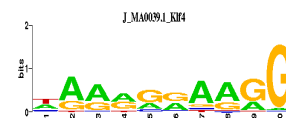
J_MA0120.1_id1 1.6689e-07

—TTCCCTTT—
TNKYNNNTNNCG



J_MA0039.1_Klf4 7.7053e-07

AAAGGGAA—
NAARRRAAGG



J_MA0370.1_RME1 4.7127e-06

TTCCCTTT—
—TNCCTTTNNA

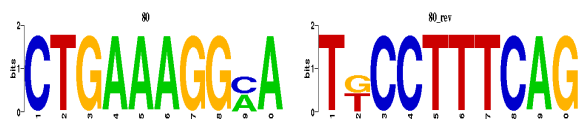


J_MA0050.1_IRF1 9.7508e-06

—TTCCCTTT—
GGTTTCRNTTTN



80

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

J_MA0370.1_RME1 1.6683e-06

CTGAAAGGMA
TNNAAGGNA



J_MA0277.1_AZF1 3.6083e-04

CTGAAAGGMA—
—AAAAAGAAA



J_MA0298.1_FZF1 5.3056e-04

TKCCTTTTCAG
—CTATCA—



J_MA0207.1_achi 6.9849e-04

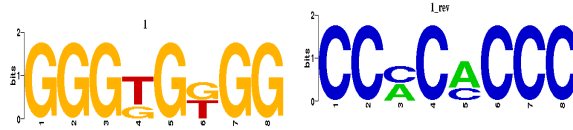
TKCCTTTTCAG
—CTGTCA—



J_MA0393.1_STE12 7.7426e-04

TKCCTTTCAG
--YGTTTCA--

1

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

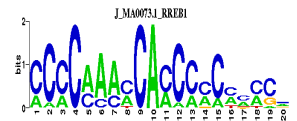
J_MA0039.2_Klf4

3.6200e-10

-CCMCACCC-
GCCMCRCN

J_MA0073.1_RREB1

7.5839e-07

-GGGTGKGG-----
NGKKKGKGGGTGKTTTGGGG

J_MA0436.1_YPR022C 1.0377e-05

GGGTGKGG
-NGTG GGG

J_MA0268.1_ADR1

5.5735e-05

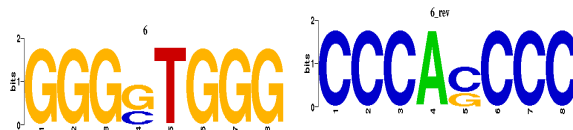
GGGTGKGG-
--KTGGGGN

J_MA0373.1_RPN4

7.2776e-05

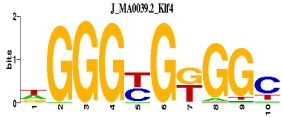
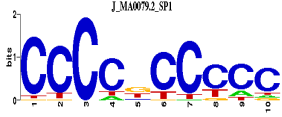
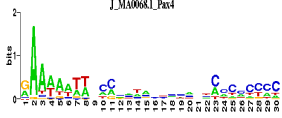
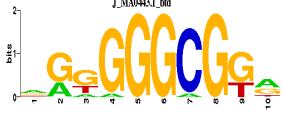
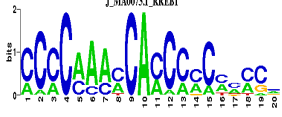
CCMCACCC
CGCCACC-

6

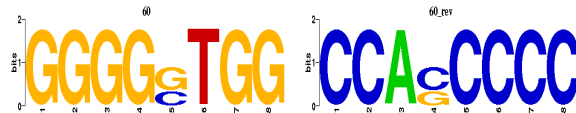
*forward**reverse compliment**Name**E value**Alignment**Motif*

Stamp Results

11/21/15

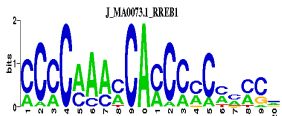
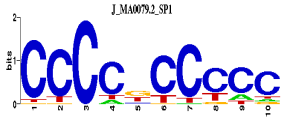
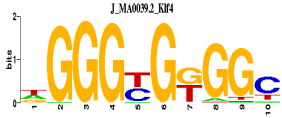
J_MA0039.2_Klf4	6.5843e-06	--CCCACCCC GCCMCRCCCN	
J_MA0079.2_SP1	1.5113e-05	-CCCACCCC- CCCCNCCCCC	
J_MA0068.1_Pax4	6.7102e-05	GGGGTGGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY	
J_MA0443.1_btd	2.1271e-04	CCCACCCC-- YCCGCCCMCN	
J_MA0073.1_RREB1	2.2997e-04	-----CCCACCCC----- CCCCAAMCACCMMCMCCN	

60



forward

reverse compliment

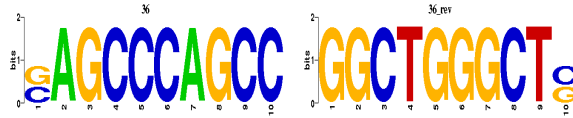
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0073.1_RREB1	1.0164e-06	-----GGGGSTGG----- NGKKKGKGGGTGKTTTGGGG	
J_MA0443.1_btd	7.9300e-06	-CCASCCCC- YCCGCCCMCN	
J_MA0079.2_SP1	2.0729e-05	GGGGSTGG-- GGGGGNGGGG	
J_MA0039.2_Klf4	9.1312e-05	-CCASCCCC- GCCMCRCCCN	

J_MA0450.1_hkb

1.9967e-04

CCASCCCC-
TCACGCCCM

36

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

J_MA0079.1_SP1

6.1064e-04

SAGCCCAGCC--
--ACCCNGCCNN

J_MA0039.2_Klf4

6.7931e-04

SAGCCCAGCC--
--GCCMCRCNN

J_MA0267.1_ACE2

6.9099e-04

GGCTGGGCTS
NGCTGGN---

J_MA0402.1_SWI5

2.2346e-03

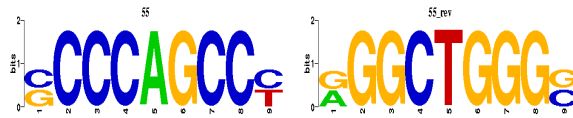
SAGCCCAGCC
--NACCAGCA

J_MA0368.1_RIM101

3.4116e-03

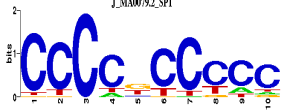
GGCTGGGCTS
--CTTGCR--

55

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

Stamp Results

11/21/15

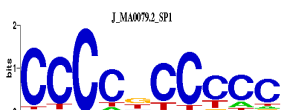
J_MA0079.2_SP1	1.7146e-05	--RGGCTGGGS GGGGGNGGGG--	
J_MA0039.2_Klf4	1.2154e-04	SCCCAGCCY-- GCCMCRCCCN	
J_MA0079.1_SP1	2.2123e-04	SCCCAGCCY-- ACCCNGCCNN	
J_MA0344.1_NHP10	3.9050e-04	RGGCTGGGS-- --NCCGGGGA	
J_MA0267.1_ACE2	3.9729e-04	RGGCTGGGS --NGCTGGN--	

41



forward

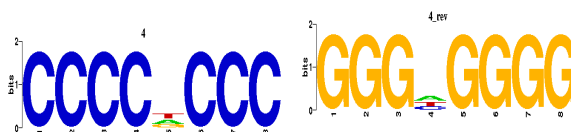
reverse compliment

Name	E value	Alignment	Motif
J_MA0079.1_SP1	5.0202e-05	CWCCCAGCYC-- --ACCCNGCCNN	
J_MA0079.2_SP1	1.4480e-04	--GRGCTGGGWG GGGGGNGGGG--	
J_MA0112.2_ESR1	2.0276e-04	--GRGCTGGGWG----- RGGTCANNNTGACCTNNNNN	
J_MA0267.1_ACE2	6.9099e-04	CWCCCAGCYC --NCCAGCN--	

J_MA0402.1_SWI5 2.2346e-03

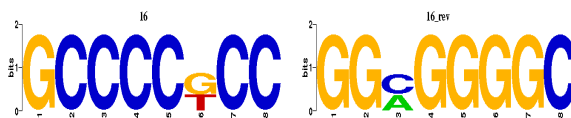
CWCCCAGCYC
-NACCAGCA-

4

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0079.2_SP1	8.7264e-10	--GGGNNGGG GGGGNNGGG	
J_MA0039.2_Klf4	2.7154e-09	-CCCNCCC- GCCMCRCN	
J_MA0431.1_YML081W	6.7315e-06	GGGNNGGG- NWGNNGGGN	
J_MA0339.1_MIG3	1.8436e-05	GGGNNGGG -NGYGGGG	
J_MA0436.1_YPR022C	2.6084e-05	GGGNNGGG -NGTGGGG	

16

*forward**reverse compliment*

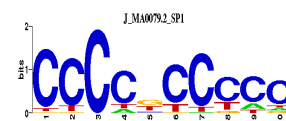
Name	E value	Alignment	Motif
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J_MA0079.2_SP1 1.3330e-08

---GGMGGGGC
GGGGGNNGGG-



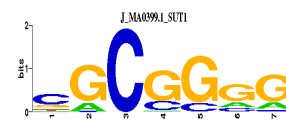
J_MA0039.2_Klf4 7.8525e-08

GCCCCCKCC--
GCCMCRCN



J_MA0399.1_SUT1 4.5912e-06

GCCCCCKCC
-CCCCGCG



J_MA0079.1_SP1 5.7263e-06

GCCCCCKCC--
ACCCNGCCNN

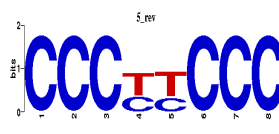


J_MA0283.1_CHA4 8.5583e-06

GCCCCCKCC
NCTCCGCC

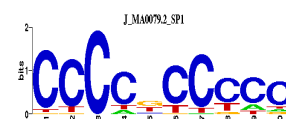


5

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

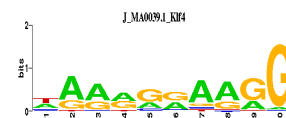
J_MA0079.2_SP1 2.4577e-07

--GGGARGGG
GGGGGNNGGG



J_MA0039.1_Klf4 6.7892e-05

CCCYTCCC---
-CCTTYYYTNN



J_MA0341.1_MSN2 2.1301e-04

GGGARGGG
---AGGGG

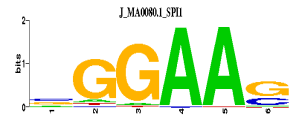


J_MA0342.1_MSN4 3.5059e-04

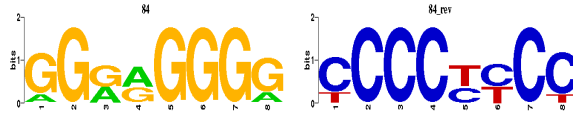
GGGARGGG
---AGGGG



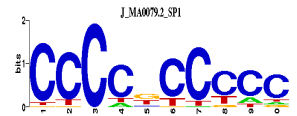
J_MA0080.1_SPI1 6.4647e-04

CCCYTCCC
--STTCN

84

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

J_MA0079.2_SP1 1.4990e-08

--GRRGGGG
GGGGNGGGG

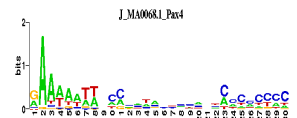
J_MA0341.1_MSN2 3.2046e-06

CCCCYCC
CCCCT---

J_MA0342.1_MSN4 8.8091e-06

CCCCYCC
CCCCT---

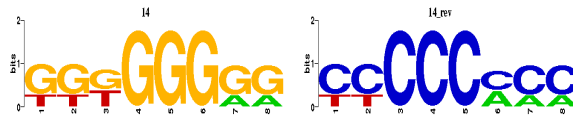
J_MA0068.1_Pax4 2.0037e-05

GRRGGGG-----
GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY

J_MA0366.1_RGM1 2.0285e-05

CCCCYCC
CCCCT---

14

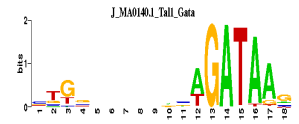
*forward**reverse compliment**Name**E value**Alignment**Motif*

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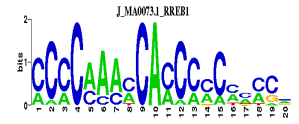
J_MA0140.1_Tal1_Gata 3.5367e-08

--GGKGGGGG-----
NNGNNNNNNNNNAGATAAN



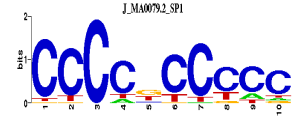
J_MA0073.1_RREB1 4.5952e-07

--GGKGGGGG-----
NGKKKGKGGGTGKTTTGGGG



J_MA0079.2_SP1 2.4777e-05

--GGKGGGGG--
GGGGGNGGGG



J_MA0436.1_YPR022C 2.6501e-05

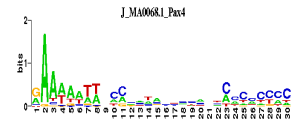
CCCCCMCC
-CCCCACN



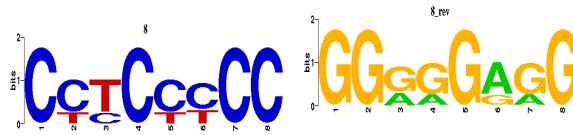
J_MA0068.1_Pax4

3.5526e-05

-----CCCCCMCC
RAAWAWWWNNMNNNNNNNNNNNNMNNNNYMC



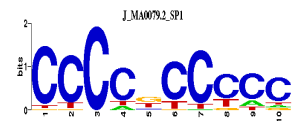
8

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

J_MA0079.2_SP1

1.8779e-09

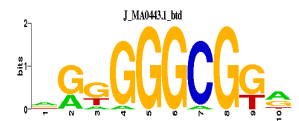
GGGGGAGG--
GGGGGNGGGG



J_MA0443.1_btd

1.3017e-05

-CCTCCCCC-
YCCGCCCMCN



J_MA0056.1_MZF1_1-4 6.8792e-05

CCTCCCCC
--TCCCN



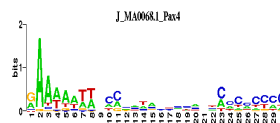
J_MA0283.1_CHA4

7.8198e-05

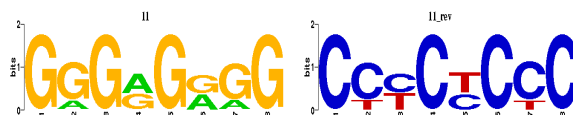
CCTCCCCC
NCTCCGCC



9.3881e-05

GGGGGAGG-----
GKRNNNNKNNNNNNNNNNNNNNKNNWWWTTWTTY

11

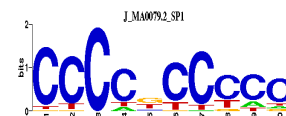


reverse compliment

Motif

9.1850e-08

--GGGRGRGG
GGGGGNGGGG

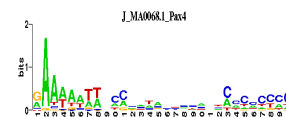


3.7663e-05

CCYCYCCC
CCCCT---



5.2909e-05

GGGRGRGG-----
GKRNNNNKNNNNNNNNNNNNNNKNNWWWTTT

- 1.0165e-04

CCYCYCCC
CCCCT---

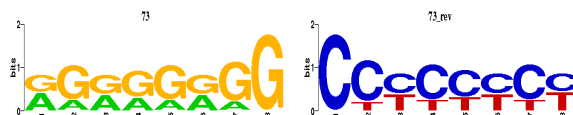


2.4530e-04

–CCYCYCCC–
YCCGCCCMCN



73

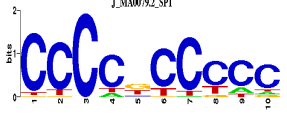
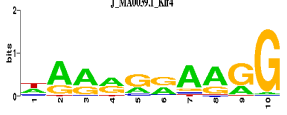
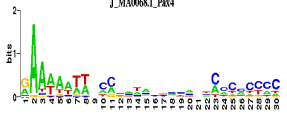
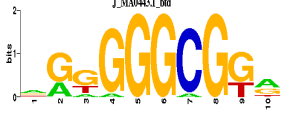


reverse compliment

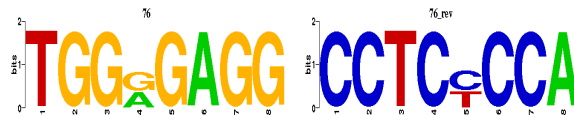
Motif

Stamp Results

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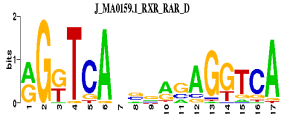
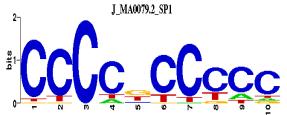
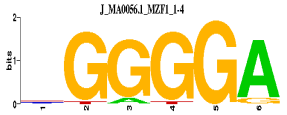
J_MA0079.2_SP1	2.4898e-06	RGRGGRGG-- GGGGNGGGG	
J_MA0039.1_Klf4	5.9976e-06	CCYCCYCY-- CCTTYYTNN	
J_MA0068.1_Pax4	7.9600e-05	RGRGGRGG----- GKRNNNNKNNNNNNNNNNKNNWWWTTTY	
J_MA0443.1_btd	9.8220e-05	-RGRGGRGG- NGKGGGCGGR	
J_MA0341.1_MSN2	1.6390e-04	CCYCCYCY ---CCCCT	

76



forward

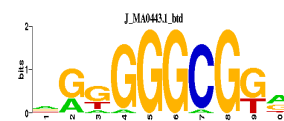
reverse compliment

Name	E value	Alignment	Motif
J_MA0159.1_RXR_RAR_D	2.8025e-06	-----TGGRGAGG--- RGKTCANNNRNAGGTCA	
J_MA0079.2_SP1	6.6962e-06	TGGRGAGG-- GGGGNGGGG	
J_MA0056.1_MZF1_1-4	1.7188e-04	CCTCYCCA --TCCCN	
J_MA0268.1_ADR1	5.6813e-04	-TGGRGAGG KTGGGN--	

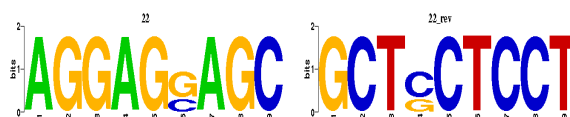
J_MA0443.1_btd

1.0940e-03

—CCTCYCCA—
YCCGCCCMCN



22

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

J_MA0283.1_CHA4 2.3814e-04

GCTCCTCCT
NCTCCGCC—



J_MA0062.1_GABPA 2.5078e-03

GCTCCTCCT—
—SNCTTCCGGT



J_MA0454.1_odd 2.7715e-03

—AGGAGGAGC
NACAGTAGCAN—



J_MA0055.1_Myf 3.4825e-03

—GCTCCTCCT—
CAGCAGYTGCYK

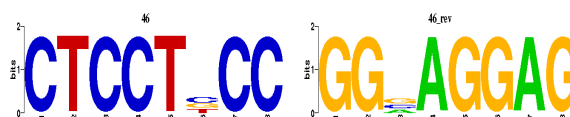


J_MA0081.1_SPIB 3.6609e-03

GCTCCTCCT
—TTCKST—



46

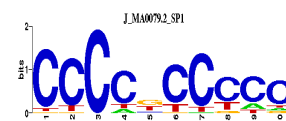
*forward**reverse compliment**Name**E value**Alignment**Motif*

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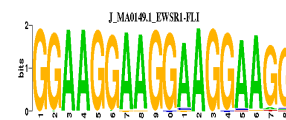
J_MA0079.2_SP1 4.5291e-05

--GGNAGGAG
GGGGGNGGGG



J_MA0149.1_EWSR1-FLI 7.1820e-05

--CTCCTNCC-----
CCTTCCTTCCTTCCTTCC



J_MA0283.1_CHA4 4.9075e-04

-CTCCTNCC
NCTCCGCC-



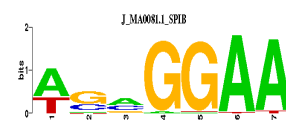
J_MA0410.1_UGA3 2.1037e-03

CTCCTNCC-
-TCCCGCCN

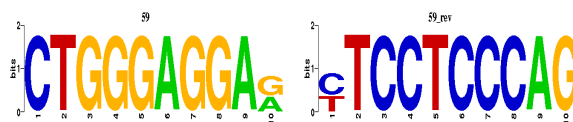


J_MA0081.1_SPIB 2.1737e-03

CTCCTNCC
TTCKST-

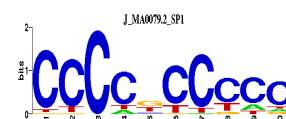


59

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

J_MA0079.2_SP1 3.0498e-04

CTGGGAGGAR
GGGGGNGGGG



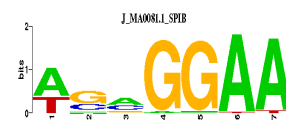
J_MA0283.1_CHA4 3.0629e-04

-YTCCTCCCAG
NCTCCGCC---



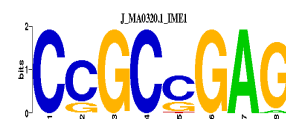
J_MA0081.1_SPIB 4.6132e-04

CTGGGAGGAR
---ASMGGAA



J_MA0320.1_IME1 9.7737e-04

CTGGGAGGAR
CTCGGCGG--

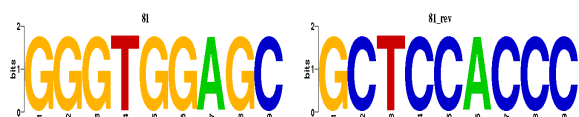


J_MA0090.1_TEAD1 2.2773e-03

CTGGGAGGAR-----
 --CNSWGAATGTR

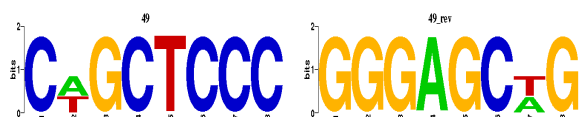


81

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0039.2_Klf4	1.6706e-07	GCTCCACCC- GCCMCRCCCN	
J_MA0130.1_ZNF354C	2.3166e-06	GGGTGGAGC --GTGGAK--	
J_MA0373.1_RPN4	9.8243e-06	GCTCCACCC -CGCCACC-	
J_MA0283.1_CHA4	1.0413e-04	GCTCCACCC NCTCCGCC-	
J_MA0270.1_AFT2	1.5039e-03	-GGGTGGAGC NGGGTGTN--	

49

*forward**reverse compliment*

Name	E value	Alignment	Motif
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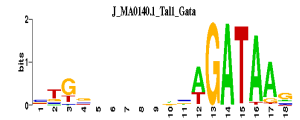
J_MA0055.1_Myf 1.6678e-04

---CWGCTCCC-
CAGCAGYTGCYK



J_MA0140.1_Tal1_Gata 3.9134e-04

-----CWGCTCCC-----
NTTATCTNNNNNNNNNCNN



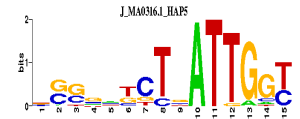
J_MA0138.2_REST 6.7347e-04

GGGAGCWG-----
-GNNGCTGTCCNNGGTGCTGAN



J_MA0316.1_HAP5 7.8797e-04

-----CWGCTCCC-
ACCAATNAGMNNSSN

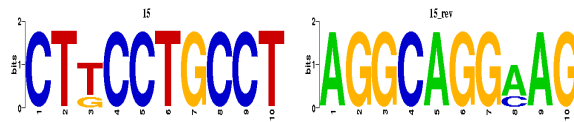


J_MA0323.1_IXR1 1.0462e-03

--CWGCTCCC-----
CMCCGCTTCCGGYTT



15

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

J_MA0149.1_EWSR1-FLI 1.3353e-09

-----AGGCAGGAAG-
GGAAGGAAGGAAGGAAGG



J_MA0156.1_FEV 1.1133e-06

-CTTCCTGCCT
AYTTCCTG---



J_MA0026.1_Eip74EF 2.2163e-06

AGGCAGGAAG
---CCGGAAR



J_MA0080.2_SPI1 2.3874e-06

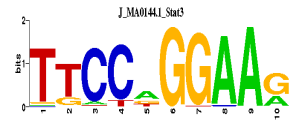
-CTTCCTGCCT
ACTTCCT----



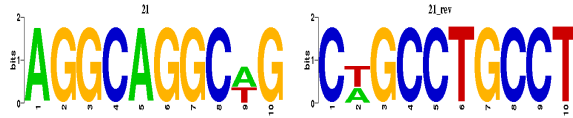
J_MA0144.1_Stat3

3.3690e-06

CTTCCTGCCT
CTTCCNGGAA



21

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

J_MA0149.1_EWSR1-FLI 3.3268e-05

-----AGGCAGGCWG--
GGAAGGAAGGAAGGAAGG



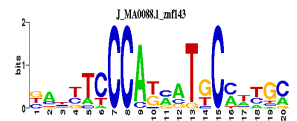
J_MA0340.1_MOT3 5.8686e-04

CWGCCTGCCT
-TRCCTN---



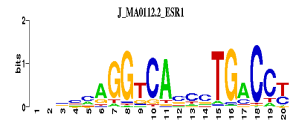
J_MA0088.1_znf143 6.8303e-04

---AGGCAGGCWG-----
KCNNKGMANNMTGGANNNN



J_MA0112.2_ESR1 3.0059e-03

-AGGCAGGCWG-----
RGGTCANNNTGACCTNNNNN

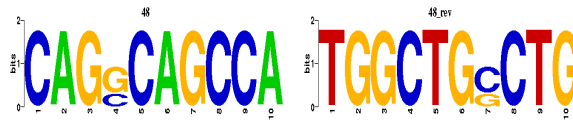


J_MA0405.1_TEA1 3.6984e-03

CWGCCTGCCT
NWGYSCGC--



48

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

Stamp Results

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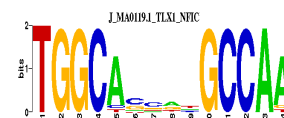
J_MA0340.1_MOT3 2.8399e-04

TGGCTGCCTG
----TRCCTN

J_MA0304.1_GCR1 2.8773e-04

TGGCTGCCTG
-GGCTTCCA-

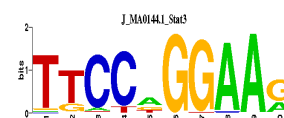
J_MA0119.1_TLX1_NFIC 1.7200e-03

----CAGGCAGCCA
TTGGCNNNSTGCCA

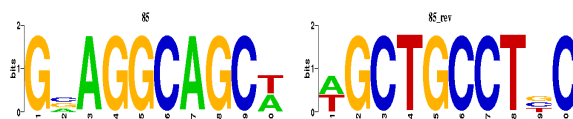
J_MA0156.1_FEV 3.3596e-03

TGGCTGCCTG
--AYTTCCTG

J_MA0144.1_Stat3 4.3301e-03

TGGCTGCCTG---
---CTTCNGGAA

85

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

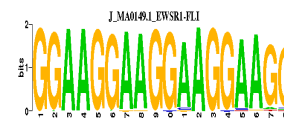
J_MA0055.1_Myf 7.8031e-05

----WGCTGCCTNC
CAGCAGYTGCYK--

J_MA0340.1_MOT3 8.8002e-04

WGCTGCCTNC
----TRCCTN-

J_MA0149.1_EWSR1-FLI 3.0190e-03

---WGCTGCCTNC-----
CCTTCCTTCCTTCCTTC

J_MA0305.1_GCR2 3.5903e-03

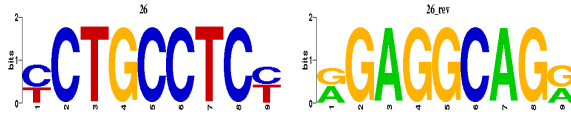
GNAGGCAGCW
--NGGAAGC-

J_MA0080.2_SP1

3.8906e-03

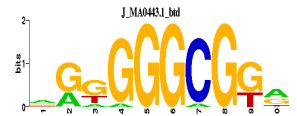
WGCTGCCTNC
-ACTTCCT--

26

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

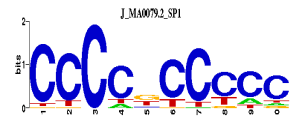
J_MA0443.1_btd

1.0966e-04

YCTGCCTCY-
YCCGCCCMCN

J_MA0079.2_SP1

2.7599e-04

RGAGGCAGR-
GGGGNGGGG

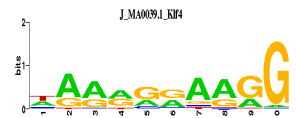
J_MA0340.1_MOT3

5.5510e-04

YCTGCCTCY
--TRCCTN-

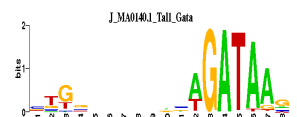
J_MA0039.1_Klf4

8.4837e-04

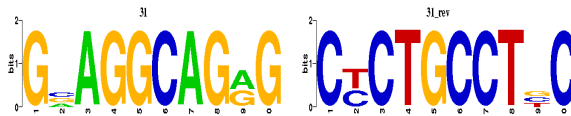
YCTGCCTCY-
CCTTYYYTTN

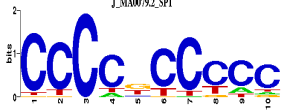
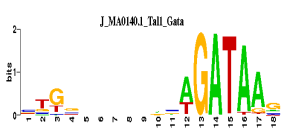
J_MA0140.1_Tal1_Gata

2.2609e-03

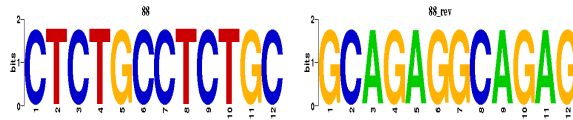
----YCTGCCTCY-----
NTTATCTNNNNNNNNNCNN

31

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

J_MA0079.2_SP1	1.5197e-04	GNAGGCAGRG GGGGGNGGGG	
J_MA0283.1_CHA4	2.5139e-04	-CYCTGCCTNC NCTCCGCC---	
J_MA0340.1_MOT3	8.8002e-04	CYCTGCCTNC ---TRCCTN-	
J_MA0149.1_EWSR1-FLI	8.8381e-04	CYCTGCCTNC----- -CCTTCCTTCCTTCCTTCC	
J_MA0140.1_Tal1_Gata	2.3413e-03	-----GNAGGCAGRG--- NNGNNNNNNNNAGATAAN	

88

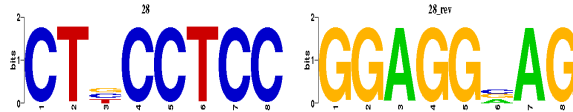
*forward**reverse compliment*

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

28

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

J_MA0080.2_SPI1

2.7690e-05

-CTNCCTCC
ACTTCCT--

J_MA0081.1_SPIB

1.6141e-04

CTNCCTCC
-TTCKST

J_MA0149.1_EWSR1-FLI 2.1161e-04

-----CTNCCTCC-----
CCTTCCTTCCTTCCTTC

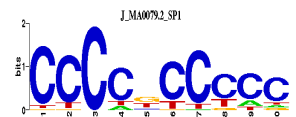
J_MA0090.1_TEAD1

2.1568e-04

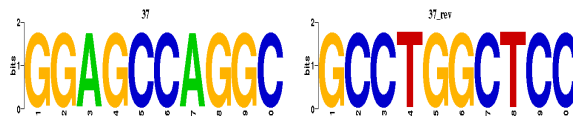
-GGAGGNAG---
CNSWGAATGTR

J_MA0079.2_SPI1

4.3633e-04

GGAGGNAG--
GGGGNGGGG

37

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

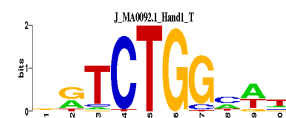
Stamp Results

11/21/15

J_MA0213.1_brk 4.6059e-05

GGAGCCAGGC
RGCGCCRS--

J_MA0092.1_Hand1_T 1.8942e-03

GGAGCCAGGC-
-NWNCCAGAYN

J_MA0368.1_RIM101 3.4116e-03

GCCTGGCTCC
-CTTGGCR--

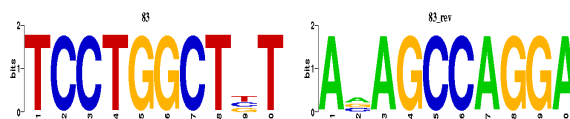
J_MA0099.2_API 8.0348e-03

GGAGCCAGGC
TGAGTCA---

J_MA0260.1_che-1 8.6472e-03

GCCTGGCTCC
----GGYTTC

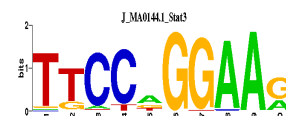
83

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

J_MA0053.1_MNB1A 3.4989e-04

TCCTGGCTNT
-----NCTTT

J_MA0144.1_Stat3 3.5906e-04

ANAGCCAGGA--
--TTCCNGGAAG

J_MA0064.1_PBF 4.9912e-04

TCCTGGCTNT
-----RCTTT

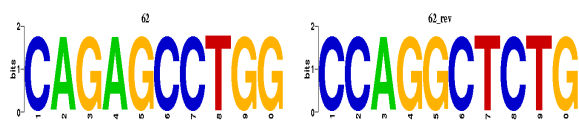
J_MA0323.1_IXR1 5.6533e-04

ANAGCCAGGA-----
-AARCCGGAAGCGGKG

J_MA0020.1_Dof2 1.3653e-03

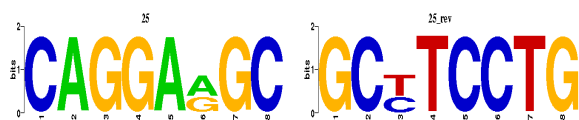
TCCTGGCTNT
----NGCTTT

62

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0316.1_HAP5	7.3910e-03	-----CAGAGCCTGG ACCAATNAGMNNSSN-	
J_MA0344.1_NHP10	1.1673e-02	--CCAGGCTCTG TCCCCGGN-----	
J_MA0086.1_sna	1.4724e-02	CAGAGCCTGG ---CACCTG-	
J_MA0340.1_MOT3	2.0691e-02	CAGAGCCTGG ---TRCCTN-	
J_MA0144.1_Stat3	2.0904e-02	CAGAGCCTGG-- --CTTCNGGAA	

25

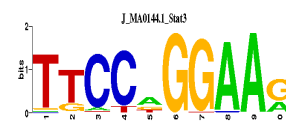
*forward**reverse compliment*

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

11/21/15

J_MA0144.1_Stat3 4.1957e-07

GCYTCCTG---
-CTTCNGGAA

J_MA0156.1_FEV 5.1328e-07

GCYTCCTG
AYTTCCTG

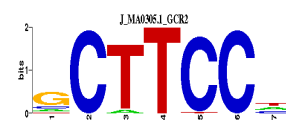
J_MA0080.2_SPI1 1.5495e-06

GCYTCCTG
ACTTCCT-

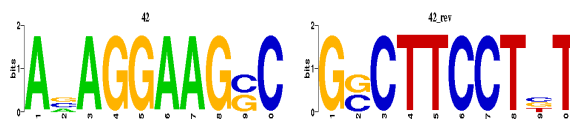
J_MA0026.1_Eip74EF 1.6219e-06

GCYTCCTG
-YTTCCGG

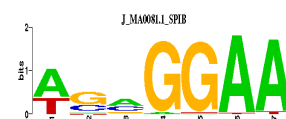
J_MA0305.1_GCR2 1.8638e-06

GCYTCCTG
GCTTCN-

42

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

J_MA0081.1_SPIB 1.7107e-07

ANAGGAAGSC
ASMGGAA---

J_MA0039.1_Klf4 3.2048e-07

-ANAGGAAGSC
NAARRRAAGG-

J_MA0304.1_GCR1 9.0237e-07

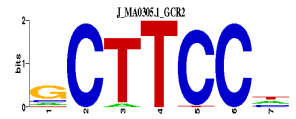
GSCTTCCTNT
GGCTTCCA--

J_MA0080.2_SPI1 1.4526e-06

GSCTTCCTNT
-ACTTCCT--

J_MA0305.1_GCR2 1.1712e-05

GSCTTCCTNT
-GCTTCN--

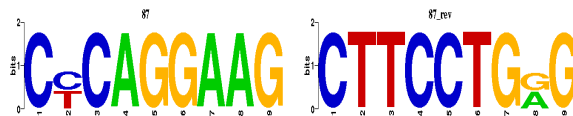


29

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0144.1_Stat3	5.9151e-11	CTTCCWGG-- CTTCCNGGAA	
J_MA0156.1_FEV	2.8642e-06	-CTTCCWGG AYTTCCTG-	
J_MA0026.1_Eip74EF	4.4473e-06	CTTCCWGG YTTCCGG-	
J_MA0304.1_GCR1	4.6553e-06	--CTTCCWGG GGCTTCCA--	
J_MA0080.2_SPI1	7.5262e-06	-CTTCCWGG ACTTCT--	

87

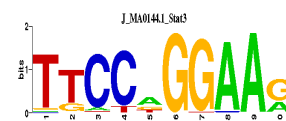
*forward**reverse compliment*

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

11/21/15

J_MA0144.1_Stat3 4.4199e-09

CTTCCTGRG-
CTTCNNGGAA

J_MA0156.1_FEV 2.2758e-07

-CTTCCTGRG
AYTTCCTG--

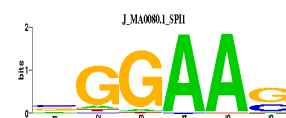
J_MA0026.1_Eip74EF 6.0037e-07

CTTCCTGRG
YTTCCGG--

J_MA0080.2_SPI1 6.4951e-07

-CTTCCTGRG
ACTTCCT---

J_MA0080.1_SPI1 9.1317e-05

CTTCCTGRG
STTCN---

58

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

J_MA0144.1_Stat3 1.2967e-13

YTTCTGGAG
CTTCNNGGAA

J_MA0156.1_FEV 1.7162e-08

-YTTCTGGAG
AYTTCCTG---

J_MA0026.1_Eip74EF 9.4859e-07

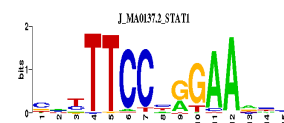
YTTCTGGAG
YTTCCGG---

J_MA0080.2_SPI1 7.4329e-06

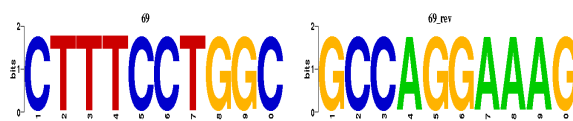
-YTTCTGGAG
ACTTCCT----

J_MA0137.2_STAT1 7.7741e-06

--YTTCTGGAG--
NNYTTCCNGGAANN

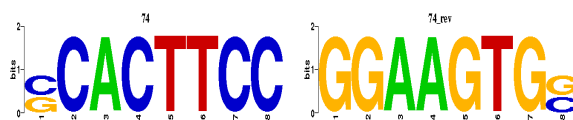


69

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0156.1_FEV	1.8467e-07	CTTTCCTGGC AYTTCCTG--	
J_MA0144.1_Stat3	4.3598e-07	CTTTCCTGGC- -CTTCCNGGAA	
J_MA0026.1_Eip74EF	2.2138e-04	CTTTCCTGGC -YTTCCGG--	
J_MA0344.1_NHP10	6.6763e-04	GCCAGGAAAG NCCGGGGA--	
J_MA0152.1_NFATC2	6.7478e-04	GCCAGGAAAG ---TGGAAAA	

74

*forward**reverse compliment*

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

11/21/15

J_MA0062.2_GABPA 3.8265e-08

—SCACTTCC—
NNCACTTCCGG



J_MA0080.2_SPI1 1.7068e-07

—GGAAGTGS
AGGAAGT—



J_MA0062.1_GABPA 8.8575e-06

---GGAAGTGS
ACCGGAAGNS—



J_MA0076.1_ELK4 1.4379e-05

SCACTTCC---
--ACTTCCGGT

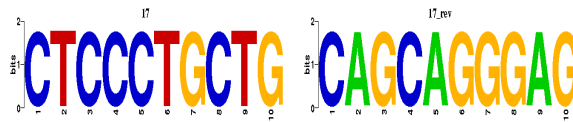


J_MA0156.1_FEV 3.8721e-05

SCACTTCC—
--AYTTCCTG



17



forward

reverse complement

Name

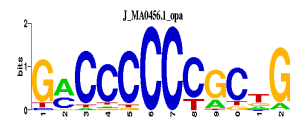
E value

Alignment

Motif

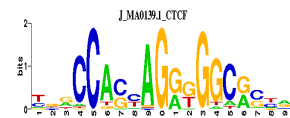
J_MA0456.1_opa 1.9606e-07

CAGCAGGGAG—
CNGCGGGGGKGC



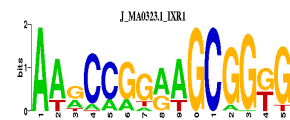
J_MA0139.1_CTCF 1.0241e-05

-----CTCCCTGCTG-----
NNSYGCCMCTRSTGGNNR



J_MA0323.1_IXR1 4.7830e-05

CAGCAGGGAG-----
AARCCGGAAGCGGKG



J_MA0364.1_REI1 6.7413e-04

CAGCAGGGAG
--NCAGGGG—

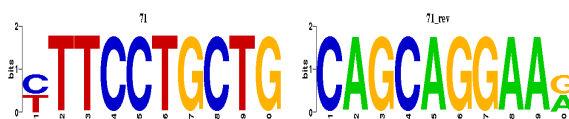


J_MA0156.1_FEV 1.8097e-03

—CTCCCTGCTG
AYTTCCTG---



71

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0156.1_FEV	1.5651e-08	—YTTCTGCTG AYTTCCTG---	
J_MA0026.1_Eip74EF	1.0692e-06	YTTCTGCTG YTTCCG---	
J_MA0144.1_Stat3	1.6893e-06	YTTCTGCTG CTTCNGGAA	
J_MA0287.1_CUP2	2.2349e-06	CAGCAGGAAR— CAGCARAAWG	
J_MA0080.2_SPI1	9.1311e-06	—YTTCTGCTG ACTTCCT----	

35

*forward**reverse compliment*

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

11/21/15

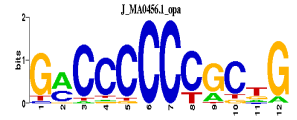
J_MA0055.1_Myf 3.5329e-07

CTCCTGCTGC--
CAGCAGYTGCYK



J_MA0456.1_opa 1.3100e-04

GCAGCAGGAG---
-CNGCGGGGGGKC



J_MA0287.1_CUP2 7.2784e-04

--CTCCTGCTGC
CWTTTGTGCTG-



J_MA0086.1_sna 7.3334e-04

CTCCTGCTGC
CACCTG----

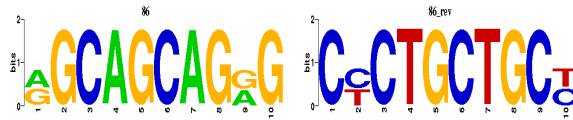


J_MA0454.1_odd 1.8851e-03

CTCCTGCTGC-
NTGCTACTGTN



86



forward

reverse complement

Name

E value

Alignment

Motif

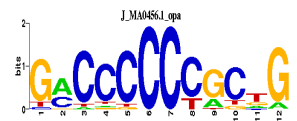
J_MA0055.1_Myf 9.2991e-06

-CYCTGCTGCY-
CAGCAGYTGCYK



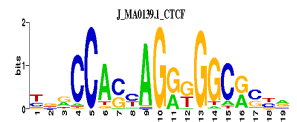
J_MA0456.1_opa 6.9445e-05

RGCAGCAGRG----
--CNGCGGGGGGKC



J_MA0139.1_CTCF 1.7355e-04

-----CYCTGCTGCY--
NNSYGCCMCCTRSTGGNNR



J_MA0048.1_NHLH1 5.2859e-04

-RGCAGCAGRG-
NCGCAGCTGCGN



CYCTGCTGCY---
--NTGCTACTGTN



reverse compliment

–TSCTGCTGNG
NTGCTACTGTN



TSCTGCTGNG----
---TGCTNWGTCAY



-CNCAGCAGSA
 NACCAGCA---



–CNCAGCAGSA–
MRGCARCTGCTG



---TSCTGCTGNG
CWTTYTGCTG---



reverse compliment

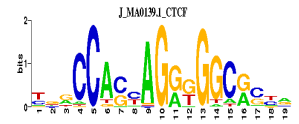
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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Stamp Results

11/21/15

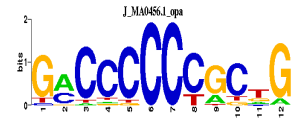
J_MA0139.1_CTCF 2.0764e-05

-----CNCTGCTGNG--
NNSYGCCMCCTRSTGGNNR



J_MA0456.1_opa 7.2289e-05

----CNCTGCTGNG
GMCCCCCGCNG--



J_MA0150.1_NFE2L2 2.1067e-04

CNCTGCTGNG----
---TGCTNWGTCA



J_MA0402.1_SWI5 2.1930e-04

-CNCAGCAGNG
NACCAGCA---

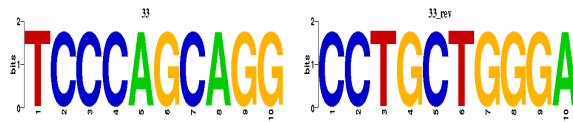


J_MA0332.1_MET28 1.9288e-03

-CNCAGCAGNG
CCACAG-----



33



forward

reverse complement

Name

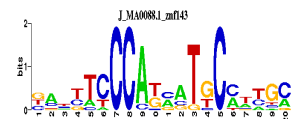
E value

Alignment

Motif

J_MA0088.1_znf143 8.2937e-06

----TCCCAGCAGG-----
NNNNTCCCAKNNTKCMNNGM



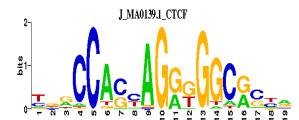
J_MA0402.1_SWI5 1.1858e-05

TCCCAGCAGG
NACCAGCA--



J_MA0139.1_CTCF 1.2686e-04

-----CCTGCTGGGA--
NNSYGCCMCCTRSTGGNNR



J_MA0267.1_ACE2 6.9099e-04

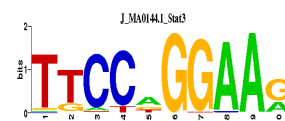
CCTGCTGGGA
--NGCTGGN-



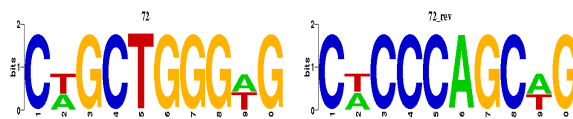
Stamp Results

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J_MA0144.1_Stat3 1.0825e-03

TCCCAGCAGG
TTCNGGAAG

72

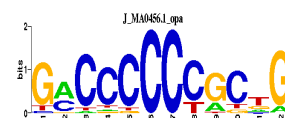
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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J_MA0402.1_SWI5 1.0593e-04

CWCCCAGCWG
-NACCAGCA-

J_MA0456.1_opa 1.7647e-04

CWGCTGGGWG--
CNGCGGGGGGKC

J_MA0048.1_NHLH1 5.8768e-04

---CWGCTGGGWG
NCGCAGCTGCGN-

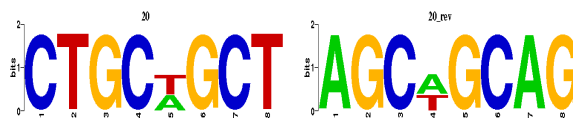
J_MA0267.1_ACE2 6.9099e-04

CWCCCAGCWG
--NCCAGCN-

J_MA0079.1_SP1 1.4755e-03

CWCCCAGCWG-
-ACCNCGCCNN

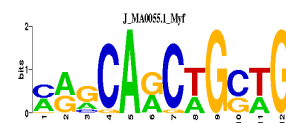
20

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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J_MA0055.1_Myf 5.1425e-07

----AGCWGCAG
MRGCARCTGCTG



J_MA0454.1_odd 5.6155e-05

CTGCWGCT---
NTGCTACTGTN



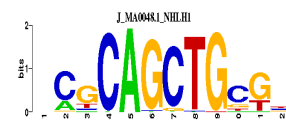
J_MA0402.1_SWI5 1.5907e-04

CTGCWGCT-
-TGCTGGTN



J_MA0048.1_NHLH1 8.7661e-04

CTGCWGCT----
NCGCAGCTGCGN

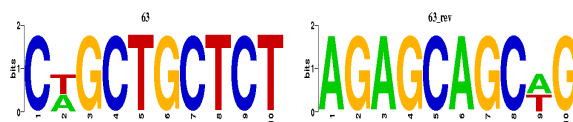


J_MA0287.1_CUP2 3.6139e-03

-----CTGCWGCT
CWTTTGTGCTG--

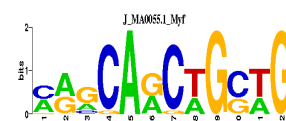


63

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

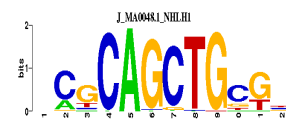
J_MA0055.1_Myf 1.0447e-06

---CWGCTGCTCT
CAGCAGYTGCTG



J_MA0048.1_NHLH1 6.6289e-05

AGAGCAGCWG---
-NCGCAGCTGCGN



J_MA0454.1_odd 1.1000e-04

CWGCTGCTCT-
NTGCTACTGTN



J_MA0402.1_SWI5 1.5933e-03

AGAGCAGCWG
-NACCAGCA-



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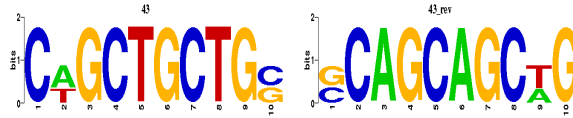
J_MA0451.1_kni

1.7466e-03

CWGCTGCTCT-----
 ---NTGCTCTANTTT



43

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

J_MA0055.1_Myf

1.2527e-10

CAGCTGCTGS--
 CAGCAGYTGCYK



J_MA0048.1_NHLH1

1.1607e-05

---CAGCTGCTGS
 NCGCAGCTGCGN-



J_MA0454.1_odd

1.0949e-04

CAGCTGCTGS-
 NTGCTACTGTN



J_MA0402.1_SWI5

4.4938e-04

--SCAGCAGCTG
 NACCAGCA----



J_MA0086.1_sna

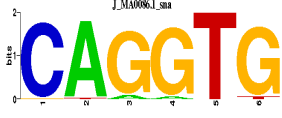
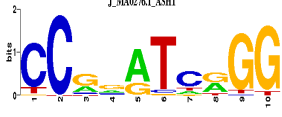
1.6734e-03

SCAGCAGCTG
 ----CACCTG

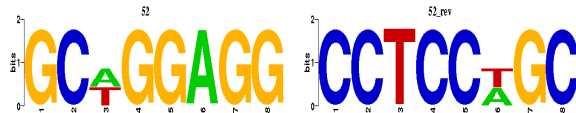


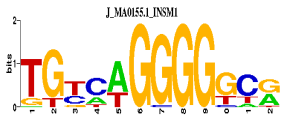
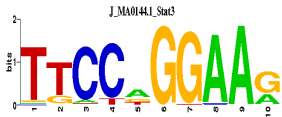
66

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

J_MA0454.1_odd	6.3761e-07	CTGCTCCTGC- NTGCTACTGTN	
J_MA0055.1_Myf	2.4450e-05	CTGCTCCTGC-- CAGCAGYTGCYK	
J_MA0086.1_sna	5.4992e-04	CTGCTCCTGC ---CACCTG-	
J_MA0326.1_MAC1	2.7786e-03	-CTGCTCCTGC TTTGCTCR---	
J_MA0276.1_ASH1	2.8786e-03	GCAGGAGCAG- -CCRNATCRGG	

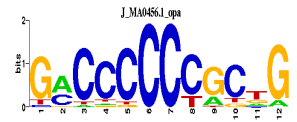
52

*forward**reverse compliment*

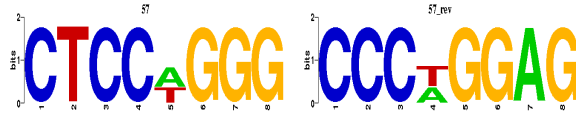
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0155.1_INSM1	8.8949e-04	--GCWGGAGG-- TGYCAGGGGGCR	
J_MA0144.1_Stat3	1.0501e-03	CCTCCWGC-- CTTCCNGGAA	
J_MA0086.1_sna	1.5696e-03	CCTCCWGC -CACCTG-	
J_MA0267.1_ACE2	2.3640e-03	CCTCCWGC- --NCCAGCN	

J_MA0456.1_opa 2.6116e-03

--GCWGGAGG--
CNGCGGGGGGKC

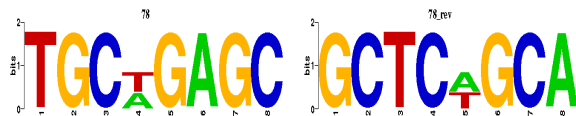


57

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0154.1_EBF1	5.9631e-06	---CCCWGGAG-- TCCCTNGGGN	
J_MA0144.1_Stat3	7.8860e-05	CTCCWGGG-- TTCCNGGAAG	
J_MA0364.1_REI1	8.6105e-04	CTCCWGGG-- --NCAGGGG	
J_MA0247.1_tin	1.3557e-03	CCCWGGAG CACTTGAR	
J_MA0139.1_CTCF	1.9527e-03	-----CCCWGGAG----- NNSYGCCMCCTRSTGGNNR	

78

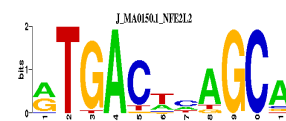
*forward**reverse compliment*

Name	E value	Alignment	Motif
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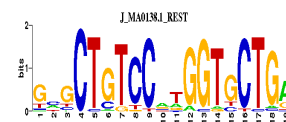
Stamp Results

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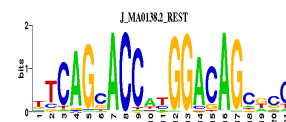
J_MA0150.1_NFE2L2 1.0025e-06

TGCWGAGC---
TGCTNWTGTCAY

J_MA0138.1_REST 2.0434e-03

GCTCWGCA-----
--TCAGCACCWNGGACAGCNC

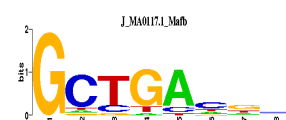
J_MA0138.2_REST 2.4725e-03

-----TGCWGAGC
GNNGCTGTCCNNGGTGCTGAN-

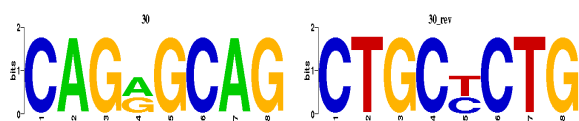
J_MA0402.1_SWI5 3.4381e-03

GCTCWGCA
NACCAGCA

J_MA0117.1_MafB 6.3678e-03

-GCTCWGCA
NNNTCAGC-

30

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

J_MA0451.1_kni

8.5118e-05

CTGCTCTG----
NTGCTCTANTTT

J_MA0364.1_REI1

2.7448e-03

-CAGRGCAG
NCAGGGG--

J_MA0326.1_MAC1

3.0846e-03

CAGRGCAG-
-YGAGCAAA

J_MA0065.2_PPARG_RXR 3.6557e-03

-----CTGCTCTG-
TGMCTTTGNCYNN

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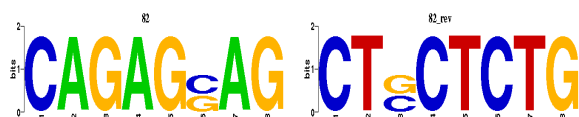
J_MA0276.1_ASH1

3.8662e-03

—CAGRGCAG—
CCRNATCRGG



82

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

J_MA0081.1_SPIB

1.7316e-04

CTSCTCTG
TTCKST—



J_MA0451.1_kni

6.1339e-04

CTSCTCTG----
NTGCTCTANTTT



J_MA0370.1_RME1

2.5699e-03

CTSCTCTG--
TNCCTTTNNA



J_MA0326.1_MAC1

3.4511e-03

—CTSCTCTG
TTTGCTCR—



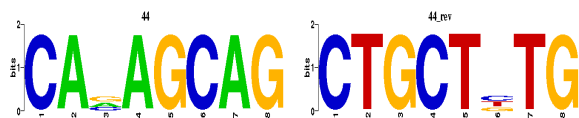
J_MA0090.1_TEAD1

5.7167e-03

CAGAGSAG----
CNSWGGAATGTR



44

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

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J_MA0053.1_MNB1A 3.4972e-04

CTGCTNTG
--NCTTT--

J_MA0064.1_PBF 4.9906e-04

CTGCTNTG
--RCTTT--

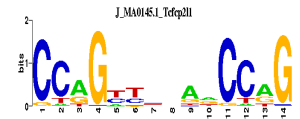
J_MA0020.1_Dof2 1.1261e-03

CTGCTNTG
-NGCTTT-

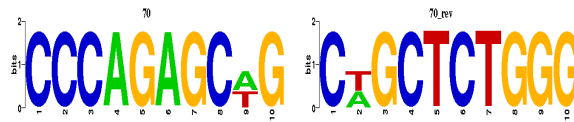
J_MA0451.1_kni 1.4750e-03

CTGCTNTG----
NTGCTCTANTTT

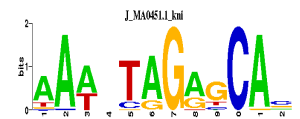
J_MA0145.1_Tcfcp2l1 2.1030e-03

CTGCTNTG-----
CYGGNTNRRNCYGG

70

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

J_MA0451.1_kni 2.2671e-04

CWGCTCTGGG--
NTGCTCTANTTT

J_MA0332.1_MET28 5.3056e-04

CWGCTCTGGG
---CTGTGG-

J_MA0276.1_ASH1 1.4392e-03

-CWGCTCTGGG
CCYGATNYGG-

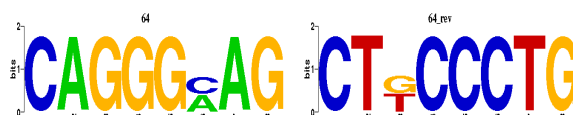
J_MA0335.1_MET4 1.9653e-03

CCCAGAGCWG
-CCACAGNT-

J_MA0362.1_RDS2 3.7400e-03

CCCAGAGCWG
CCCCGAN---

64

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

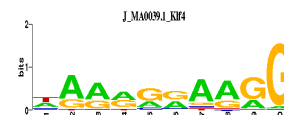
J_MA0364.1_REI1 1.6870e-04

-CAGGGMAG
NCAGGGG--

J_MA0080.1_SPI1 6.1363e-04

CTKCCCTG
STTCN--

J_MA0039.1_Klf4 6.3625e-04

-CAGGGMAG-
NAARRRAAG

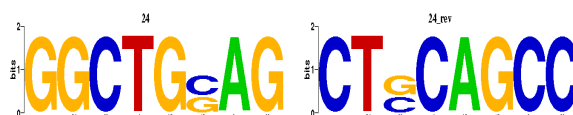
J_MA0156.1_FEV 1.6606e-03

CTKCCCTG
AYTTCCTG

J_MA0366.1_RGM1 1.7687e-03

CTKCCCTG
--CCCCT-

24

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

J_MA0410.1_UGA3 1.1597e-04

CTSCAGCC-
-TCCCGCCN

J_MA0055.1_Myf 1.5236e-04

CTSCAGCC----
CAGCAGYTGCYK

J_MA0267.1_ACE2 2.9658e-03

CTSCAGCC
-NCCAGCN

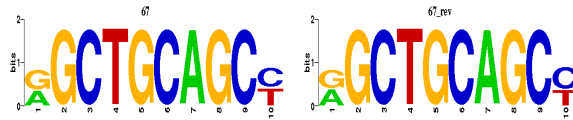
J_MA0385.1_SOK2 3.1377e-03

--CTSCAGCC-
NNMTGCAKNNN

J_MA0402.1_SWI5 9.1070e-03

CTSCAGCC
NACCAGCA

67

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

J_MA0055.1_Myf 9.6875e-05

-RGCTGCAGCY-
CAGCAGYTGCYK

J_MA0385.1_SOK2 6.9087e-03

RGCTGCAGCY-
NNMTGCAKNNN

J_MA0213.1_brk 6.9179e-03

RGCTGCAGCY
--SYGGCGCY

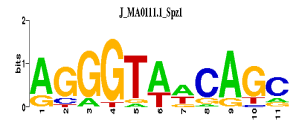
J_MA0048.1_NHLH1 7.0544e-03

----RGCTGCAGCY
NCGCAGCTGCGN--

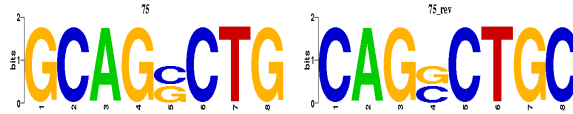
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J_MA0111.1_Spz1 1.0713e-02

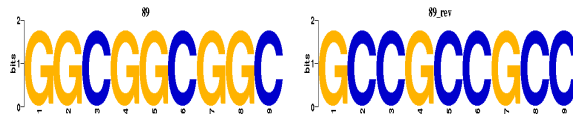
RGCTGCAGCY--
-GCTGWTACCCT

75

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0119.1_TLX1_NFIC	4.6957e-03	--GCAGSCTG---- TGGCASNNNGCCAA	
J_MA0088.1_znf143	5.2386e-03	-----GCAGSCTG----- KCNKNGMANNNMTGGGANNNN	
J_MA0112.2_ESR1	5.4283e-03	----CAGSCTGC----- RGGTCANNNTGACCTNNNNN	
J_MA0260.1_che-1	1.9735e-02	CAGSCTGC --GGYTTC	
J_MA0155.1_INSM1	2.1552e-02	-GCAGSCTG--- YGCCCCCTGRCA	

89

*forward**reverse compliment*

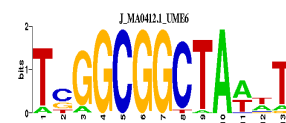
Name	E value	Alignment	Motif
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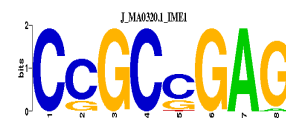
J_MA0412.1_UME6 3.3204e-06

-----GCCGCCGCC
AwwTAGCCGCCSA-



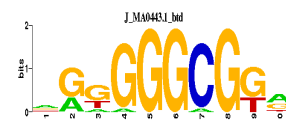
J_MA0320.1_IME1 9.9898e-06

GGCGGCGGC
CTCGGCGG-



J_MA0443.1_btd 1.3021e-05

GCCGCCGCC-
YCCGCCCMCN



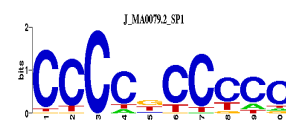
J_MA0373.1_RPN4 1.3861e-05

GCCGCCGCC
--CGCCACC

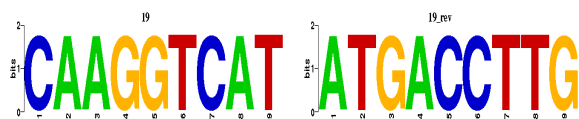


J_MA0079.2_SP1 1.5768e-05

GGCGGCGGC-
GGGGNGGGG



19



forward

reverse compliment

Name

E value

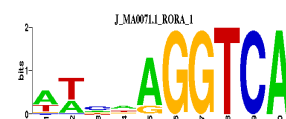
Alignment

Motif

J_MA0071.1_RORA_1

1.8098e-10

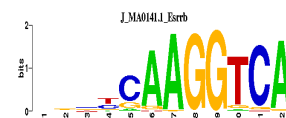
ATGACCTTG--
-TGACCTNNWW



J_MA0141.1_Esrrb

4.1034e-10

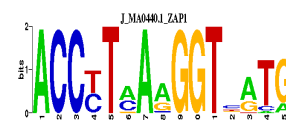
ATGACCTTG----
-TGACCTTGRNNN



J_MA0440.1_ZAP1

2.3750e-09

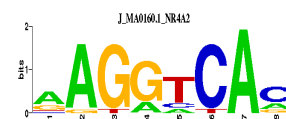
-ATGACCTTG-----
CATNACCTTKARGGT



J_MA0160.1_NR4A2

5.3313e-09

ATGACCTTG
GTGACCTT-

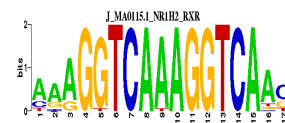


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J_MA0115.1_NR1H2_RXR 6.2140e-06

-ATGACCTTG-----
STTGACCTTTGACCTTT



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