

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

Input file: 100 motifs loaded

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

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

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

[Download results as a PDF](#)

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Multiple Alignment

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

```

0:      -----CTGGNNNNNNCCAG
1:      -----GGGNGGGG-----
2:      -----GGGTGKGG-----
3:      -----GGGARGGG-----
4:      --CAGNNNNNNCTGGA-----
5:      -----CTGGCTGGCTG---
6:      -----TTTTNTTT-----
7:      -----TTTKTTTT-----
8:      -----CTGNNNNCAGC---
9:      -----CCAGCTGG-----
10:     -----ANCTGGTTC-----
11:     -----CAGNCTGG-----
12:     -----TGNCTTG-----
13:     -----CAGNNNCTGG-----
14:     -----TTCCTGCCTG-----
15:     -----GGGCNGGG-----
16:     -----GGGGGRGG-----
17:     -----CCTGCWGG-----
18:     -----CAGCCWGG-----
19:     -----CTGCWGCT-----
20:     -----GAACTGGTT-----
21:     -----GGAAGTGAAGT-----
22:     -----CTNCTCTG-----

```

Stamp Results

11/21/15

```

23: -----CANAGCTG-----
24: -----CCTGCTGNG-----
25: -----CCTGNNNNNNNCAG--
26: -----GCTGGAGC-----
27: -----CAGCNCTG-----
28: -----TGTGTGTG-----
29: -----CAGCWGGG-----
30: ACTGGNNNNNACTGG-----
31: -----TNCCTGCCC-----
32: -----CAGGCTGNG-----
33: -----CCTNCCCT-----
34: -CTGGTNNNNNCTGGT-----
35: -----ACTGGCTNC-----
36: -----CTCYTCCT-----
37: ---GCAGCTGCTG-----
38: -----CTGGGNAG-----
39: -----CTGGNAGG-----
40: -----CTGGNCAG-----
41: ACCAGNNNNNACTGG-----
42: -----CTNCCTCT-----
43: -----GCYCCTCC-----
44: -----CTGGCYTG-----
45: -----TNCTGCCTNT-----
46: -----GAGCTGGNT-----
47: -----GCWGCCTG-----
48: -----CTNCCTGG-----
49: -----GCTGGCTNT-----
50: -----CTCWGCCT-----
51: -----GGCTCTGGCTCT-----
52: GCTGGNNNNNGCTGG-----
53: -CCAGCNNNNNGCTGG-----
54: -----CTGCTSAG-----
55: -----AGGNCTGG-----
56: -----CTGGCTTKG-----
57: -----AGCWGGAA-----
58: -----TGGSTGTG-----
59: -----GCWGGAGG-----
60: -----GGRGGGGG-----
61: -----CTGCWGAG-----
62: -----CTCCTGCTGC-----
63: -----CCWGGGCT-----
64: -----GGNTGGAG-----
65: -----GAGGCTGG-----

```

Stamp Results

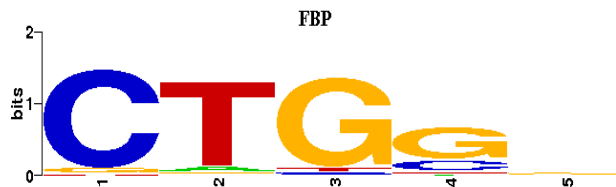
11/21/15

```

66: -----GAGCCTGNG-----
67: -----TNCCTGCTNC-----
68: -----CTGNGGCT-----
69: -----CANACTGG-----
70: -----CCWGGGAG-----
71: -----CWGACTGGNT-----
72: -----GCTGGGAA-----
73: -----GCCTGGGC-----
74: -----GGNAGCTG-----
75: -----CTTCCTCCTC-----
76: -----CTGGCTCWG-----
77: -----TGACCTTN-----
78: -----GGGKGGG-----
79: -----TGGGNAG-----
80: -----AARCTGGA-----
81: -----GCTGGTTT-----
82: -----CTSCCTGCCT-----
83: -----GCCTCTGC-----
84: -----GSKCTSTG-----
85: -----CCTGTNCT-----
86: -----TCWGCTGG-----
87: -----AGACWGA-----
88: -----CTNTCCTG-----
89: -----CTTCCTTCCT-----
90: -----SNRGAGAG-----
91: -----CCTNCTGG-----
92: -----CWGCTCTGNG-----
93: -----CCTSAGCC-----
94: -----CTCTCTGC-----
95: -----CTGCCYTC-----
96: -----TCTGCYCT-----
97: -----CCTNTCTG-----
98: -----CCTGGGGWG-----
99: -----TCCTGNNT-----

```

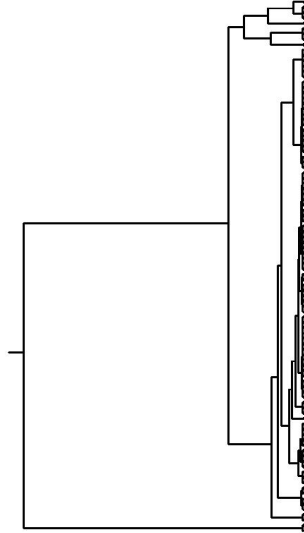
Familial Profile:
(click for matrix)



Motif Tree

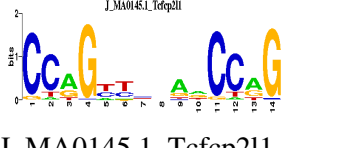
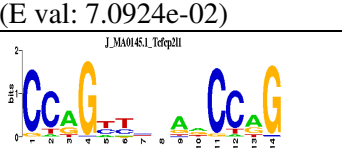
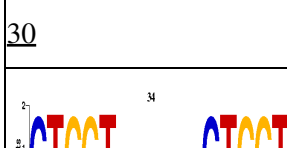
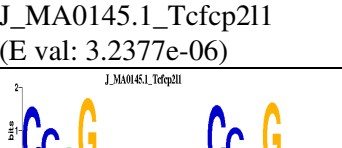
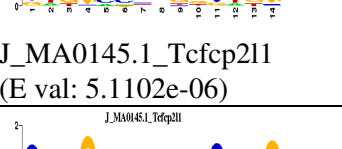
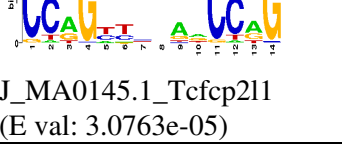
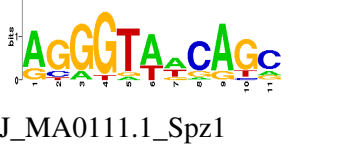
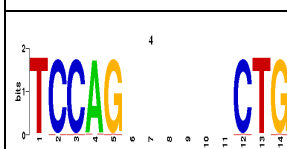
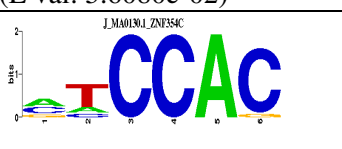
Tree (drawn by **PhyIip**)

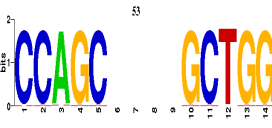
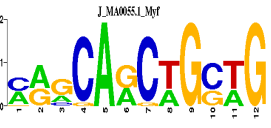
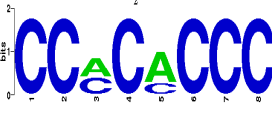
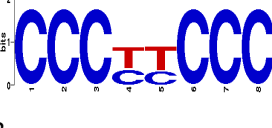
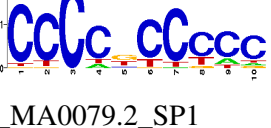
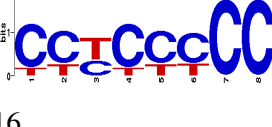
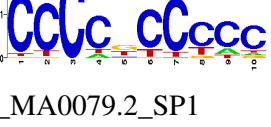
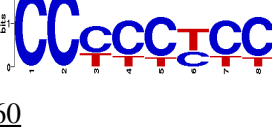
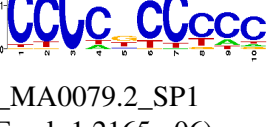
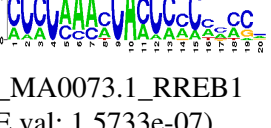
[Click here for Newick-format tree \(viewable with MEGA\)](#)

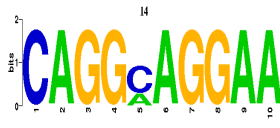
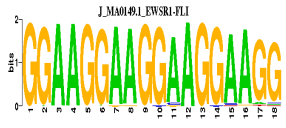
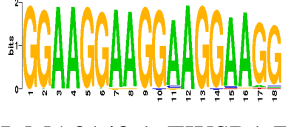
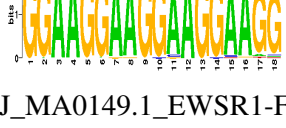
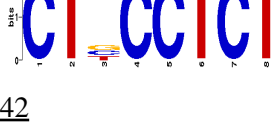
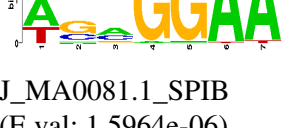
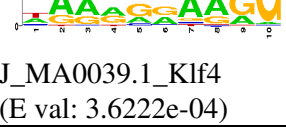
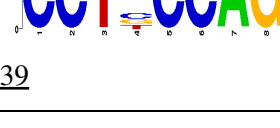
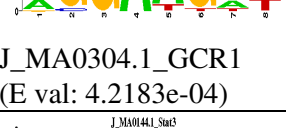
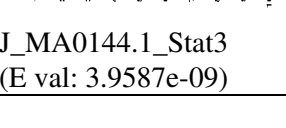


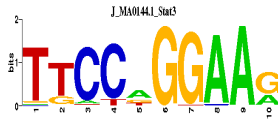
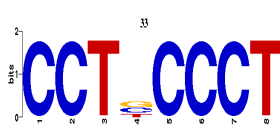
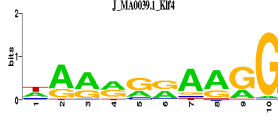
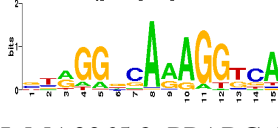
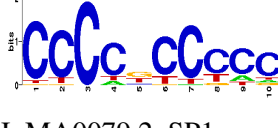
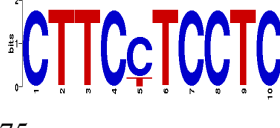
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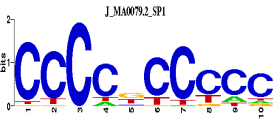
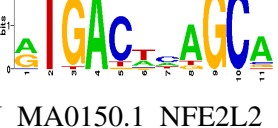
Best match in
user-defined

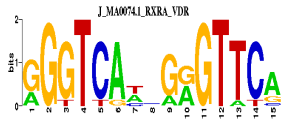
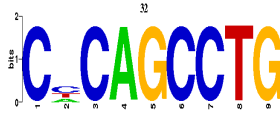
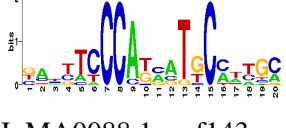
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 52	 J_MA0145.1_Tcfcp211 (E val: 3.0763e-05)
 8	 J_MA0111.1_Spz1 (E val: 5.6080e-02)
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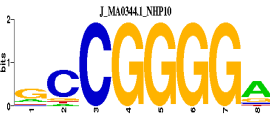
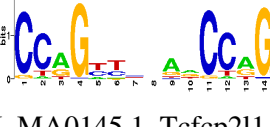
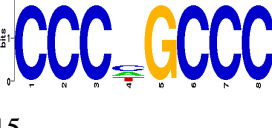
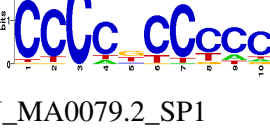
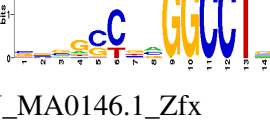
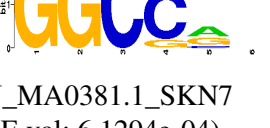
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 2	 J_MA0039.2_Klf4 (E val: 2.1099e-10)
 3	 J_MA0079.2_SP1 (E val: 1.8435e-07)
 16	 J_MA0079.2_SP1 (E val: 7.2513e-09)
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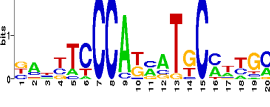
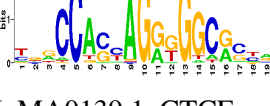
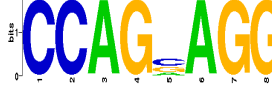
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 82	 J_MA0149.1_EWSR1-FLI (E val: 3.1359e-05)
 42	 J_MA0081.1_SPIB (E val: 1.5964e-06)
 45	 J_MA0039.1_Klf4 (E val: 3.6222e-04)
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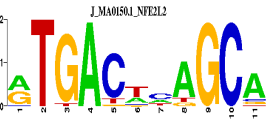
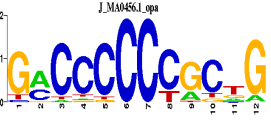
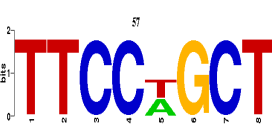
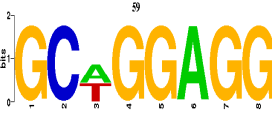
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 96	 J_MA0065.2_PPARG_RXR (E val: 7.3978e-06)
 79	 J_MA0079.2_SP1 (E val: 2.1969e-05)
 74	 J_MA0048.1_NHLH1 (E val: 2.5268e-06)
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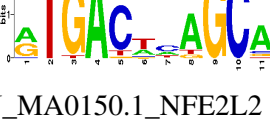
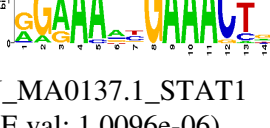
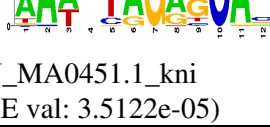
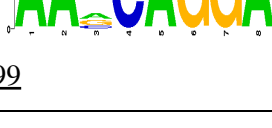
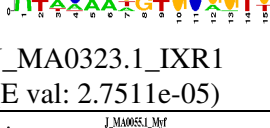
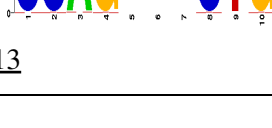
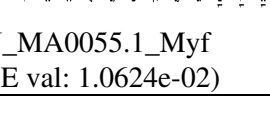
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 35	 J_MA0263.1_ttx-3_c (E val: 2.8972e-04)
 49	 J_MA0267.1_ACE2 (E val: 3.9729e-04)
 56	 J_MA0053.1_MNB1A (E val: 5.7529e-05)
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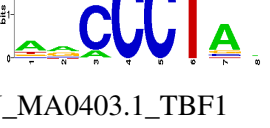
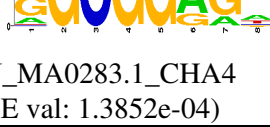
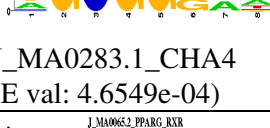
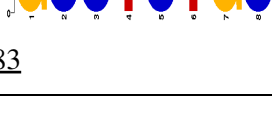
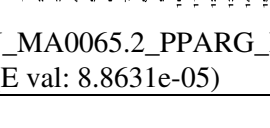
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 <u>20</u>	 J_MA0074.1_RXRA_VDR (E val: 4.7384e-05)
 <u>81</u>	 J_MA0402.1_SWI5 (E val: 1.9750e-06)
 <u>11</u>	 J_MA0267.1_ACE2 (E val: 7.3617e-04)
 <u>32</u>	 J_MA0088.1_znf143 (E val: 5.2096e-04)
 <u>18</u>	 J_MA0112.2_ESR1 (E val: 2.8805e-03)
 <u>47</u>	 J_MA0340.1_MOT3 (E val: 3.5319e-04)
 <u>65</u>	 J_MA0267.1_ACE2 (E val: 1.7345e-04)

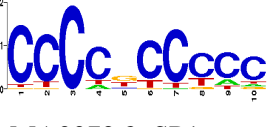
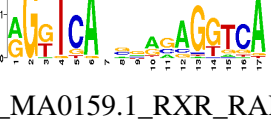
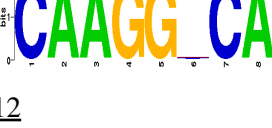
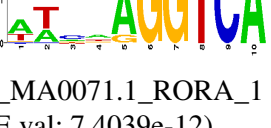
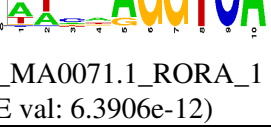
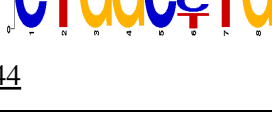
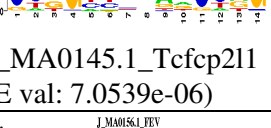
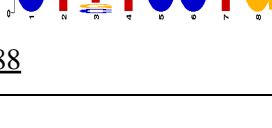
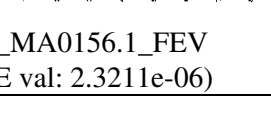
 <u>66</u>	 J_MA0344.1_NHP10 (E val: 3.1618e-04)
 <u>69</u>	 J_MA0145.1_Tcfcp2l1 (E val: 1.6201e-03)
 <u>71</u>	 J_MA0060.1_NFYA (E val: 8.6194e-06)
 <u>87</u>	 J_MA0207.1_achi (E val: 2.0432e-04)
 <u>15</u>	 J_MA0079.2_SP1 (E val: 5.2411e-10)
 <u>55</u>	 J_MA0146.1_Zfx (E val: 9.4108e-05)
 <u>38</u>	 J_MA0344.1_NHP10 (E val: 1.0392e-03)
 <u>40</u>	 J_MA0381.1_SKN7 (E val: 6.1294e-04)

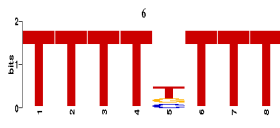
 98	 J_MA0154.1_EBF1 (E val: 1.6300e-05)
 63	 J_MA0163.1_PLAG1 (E val: 1.3112e-03)
 73	 J_MA0162.1_Egr1 (E val: 7.0462e-07)
 72	 J_MA0088.1_znf143 (E val: 7.4680e-06)
 9	 J_MA0091.1_TAL1_TCF3 (E val: 1.8470e-05)
 86	 J_MA0402.1_SWI5 (E val: 4.3304e-05)
 17	 J_MA0139.1_CTCF (E val: 4.5748e-06)
 91	 J_MA0402.1_SWI5 (E val: 1.1584e-05)

 <u>24</u>	 J_MA0150.1_NFE2L2 (E val: 5.0661e-05)
 <u>29</u>	 J_MA0456.1_opa (E val: 2.3986e-06)
 <u>57</u>	 J_MA0090.1_TEAD1 (E val: 4.4294e-05)
 <u>62</u>	 J_MA0055.1_Myf (E val: 3.4282e-07)
 <u>67</u>	 J_MA0156.1_FEV (E val: 2.3028e-04)
 <u>26</u>	 J_MA0267.1_ACE2 (E val: 1.7345e-04)
 <u>64</u>	 J_MA0130.1_ZNF354C (E val: 6.6989e-05)
 <u>59</u>	 J_MA0155.1_INSM1 (E val: 9.1516e-04)

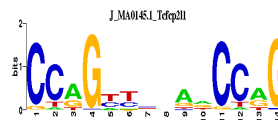
 19	 J_MA0055.1_Myf (E val: 4.9213e-07)
 37	 J_MA0055.1_Myf (E val: 9.2382e-13)
 54	 J_MA0150.1_NFE2L2 (E val: 3.6506e-05)
 61	 J_MA0150.1_NFE2L2 (E val: 2.9523e-06)
 21	 J_MA0137.1_STAT1 (E val: 1.0096e-06)
 80	 J_MA0451.1_kni (E val: 3.5122e-05)
 99	 J_MA0323.1_IXR1 (E val: 2.7511e-05)
 13	 J_MA0055.1_Myf (E val: 1.0624e-02)

 22	 J_MA0451.1_kni (E val: 5.7160e-04)
 92	 J_MA0451.1_kni (E val: 3.7598e-03)
 23	 J_MA0048.1_NHLH1 (E val: 6.8666e-05)
 27	 J_MA0403.1_TBF1 (E val: 2.1796e-03)
 84	 J_MA0332.1_MET28 (E val: 5.3710e-04)
 50	 J_MA0283.1_CHA4 (E val: 1.3852e-04)
 93	 J_MA0283.1_CHA4 (E val: 4.6549e-04)
 83	 J_MA0065.2_PPARG_RXR (E val: 8.8631e-05)

 68	 J_MA0332.1_MET28 (E val: 4.6780e-06)
 90	 J_MA0079.2_SP1 (E val: 1.0535e-03)
 94	 J_MA0354.1_PDR8 (E val: 3.1718e-03)
 97	 J_MA0159.1_RXR_RAR_D (E val: 2.8474e-04)
 12	 J_MA0071.1_RORA_1 (E val: 7.4039e-12)
 77	 J_MA0071.1_RORA_1 (E val: 6.3906e-12)
 44	 J_MA0145.1_Tcfcp211 (E val: 7.0539e-06)
 88	 J_MA0156.1_FEV (E val: 2.3211e-06)

85	 J_MA0371.1_ROX1 (E val: 9.9021e-04)
28	 J_MA0009.1_T (E val: 7.8901e-05)
58	 J_MA0009.1_T (E val: 2.3616e-06)
6	 J_MA0277.1_AZF1 (E val: 8.5418e-08)
7	 J_MA0277.1_AZF1 (E val: 2.6497e-08)

Motif Similarity Matches

0			
	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp211	7.0924e-02	CTGGNNNNNNCCAG CYGGNTNNRNCYGG	

J_MA0267.1_ACE2 1.0191e-01

--CTGGNNNNNNCCAG
NGCTGGN-----



J_MA0402.1_SWI5 1.9250e-01

CTGGNNNNNNCCAG--
-----NACCAGCA



J_MA0313.1_HAP2 2.9164e-01

CTGGNNNNNNCCAG
-----RCCAA

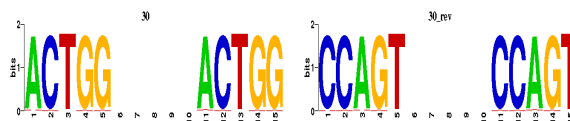


J_MA0061.1_NF-kappaB 3.9437e-01

CTGGNNNNNNCCAG
--GGRAAKTCCC--



30

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

J_MA0145.1_Tcfcp2l1 3.2377e-06

CCAGTNNNNNCCAGT
CCRGNYNNANCCRG-



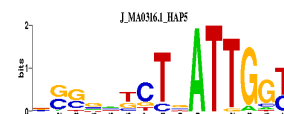
J_MA0267.1_ACE2 1.1693e-01

-ACTGGNNNNNACTGG
NGCTGGN-----



J_MA0316.1_HAP5 1.8958e-01

-CCAGTNNNNNCCAGT
ACCAATNAGMNNSSN-



J_MA0402.1_SWI5 2.1627e-01

--CCAGTNNNNNCCAGT
NACCAGCA-----

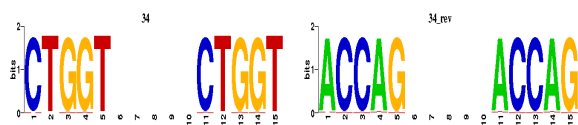


J_MA0335.1_MET4 2.9732e-01

--CCAGTNNNNNCCAGT
CCACAGNT-----

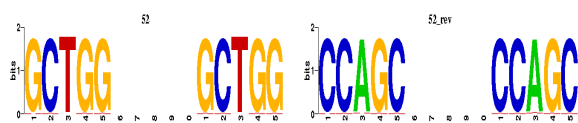


34

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	5.1102e-06	ACCAGNNNNNACCAG -CCRGNYNNANCCRG	
J_MA0402.1_SWI5	1.7418e-02	-CTGGTNNNNNCTGGT GCTGGTN-----	
J_MA0313.1_HAP2	5.3009e-02	ACCAGNNNNNACCAG RCCAA-----	
J_MA0086.1_sna	1.1200e-01	-CTGGTNNNNNCTGGT C-AGGTG-----	
J_MA0267.1_ACE2	1.1693e-01	--CTGGTNNNNNCTGGT NGCTGGN-----	

52

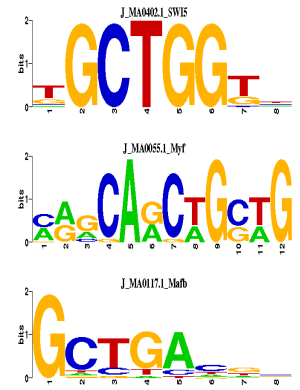
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	3.0763e-05	CCAGCNNNNNCCAGC CCRGNYNNANCCRG-	
J_MA0267.1_ACE2	3.3598e-03	-GCTGGNNNNNGCTGG NGCTGGN-----	

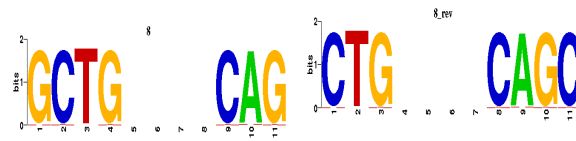
Stamp Results

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J_MA0402.1_SWI5	1.3359e-02	--CCAGCNNNNNCCAGC NACCAGCA-----
J_MA0055.1_Myf	1.7828e-01	CCAGCNNNNNCCAGC -CAGCAGYTGCKY--
J_MA0117.1_MafB	2.3454e-01	---CCAGCNNNNNCCAGC NNNTCAGC-----



8



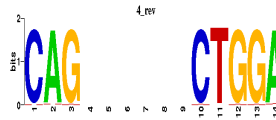
forward

reverse complement

Name	E value	Alignment	Motif
J_MA0111.1_Spz1	5.6080e-02	GCTGNNNNCAG GCTGWTACCCT	
J_MA0267.1_ACE2	5.9944e-02	-GCTGNNNNCAG NGCTGGN-----	
J_MA0140.1_Tal1_Gata	6.7056e-02	-----CTGNNNNCAGC-- NTTATCTNNNNNNNNNCNN	
J_MA0402.1_SWI5	1.1748e-01	CTGNNNNCAGC- ----NACCAGCA	
J_MA0117.1_MafB	1.2994e-01	CTGNNNNCAGC ---NNNTCAGC	

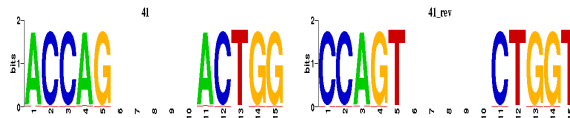
4



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0130.1_ZNF354C	3.9400e-02	CAGNNNNNNCTGGA- -----GTGGAK	
J_MA0144.1_Stat3	8.3491e-02	-TCCAGNNNNNNCTG TTCNGGAAG-----	
J_MA0267.1_ACE2	1.0191e-01	CAGNNNNNNCTGGA -----NGCTGGN	
J_MA0152.1_NFATC2	1.0367e-01	CAGNNNNNNCTGGA-- -----TGGA AAA	
J_MA0280.1_CAT8	1.1807e-01	-TCCAGNNNNNNCTG NTCCGG-----	

41

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	9.2045e-03	ACCAGNNNNNACTGG -CYGGNTNNRNCYGG	
J_MA0402.1_SWI5	1.7418e-02	CCAGTNNNNNNCTGGT- -----TGCTGGTN	

J_MA0313.1_HAP2 5.3009e-02

ACCAGNNNNNACTGG
RCCAA-----

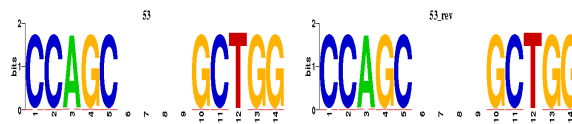
J_MA0086.1_sna 1.1200e-01

CCAGTNNNNNCTGGT-
-----CAGGTG

J_MA0267.1_ACE2 1.1693e-01

ACCAGNNNNNACTGG-
-----NGCTGGN

53

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

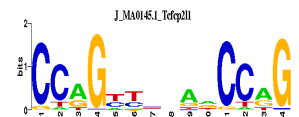
J_MA0055.1_Myf 3.5915e-04

CCAGCNNNNGCTGG
-CAGCAGYTGCYK-

J_MA0267.1_ACE2 2.6133e-03

CCAGCNNNNGCTGG-
-----NGCTGGN

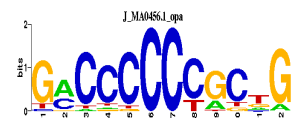
J_MA0145.1_Tcfcp2l1 9.7988e-03

CCAGCNNNNGCTGG
CYGGNTNNRNCYGG

J_MA0402.1_SWI5 1.0589e-02

--CCAGCNNNNGCTGG
NACCAGCA-----

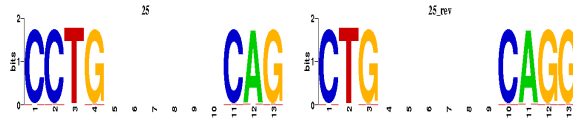
J_MA0456.1_opa 8.4342e-02

CCAGCNNNNGCTGG
-GMCCCCCGCNG-

25

Stamp Results

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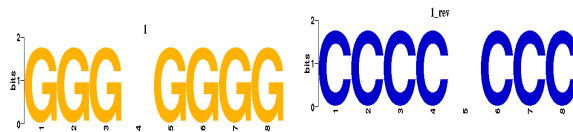


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0086.1_sna	2.9949e-02	CTGNNNNNNNCAGG-- -----CAGGTG	
J_MA0364.1_REI1	8.6185e-02	CTGNNNNNNNCAGG-- -----NCAGGGG	
J_MA0156.1_FEV	1.8820e-01	----CCTGNNNNNNNCAG AYTTCCTG-----	
J_MA0340.1_MOT3	2.1386e-01	--CCTGNNNNNNNCAG TRCCTN-----	
J_MA0366.1_RGM1	2.6577e-01	--CCTGNNNNNNNCAG CCCCT-----	

1



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	3.5754e-08	-CCCNCCC- GCCMCRCN	
J_MA0079.2_SP1	9.2038e-08	--GGGNGGGG GGGGGNGGGG	

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J_MA02681_ADR1

bits

1 2 3 4 5 6 7 8 9 10

CcCC

A G

A G

G

J_MA03661_RGMI

bits

AGGGG

reverse compliment

Motif

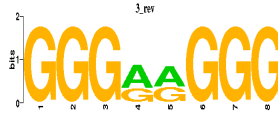
Sequence logo for J_MA000392_K14. The y-axis is labeled 'bits' and ranges from 0 to 2. The x-axis shows the sequence GGGG. The letters G, G, G, and G are all colored orange and have a height of approximately 1.8 bits. The background is white with a light gray grid.

bits

J_MA0436_1_YPR022C

CCCCAC

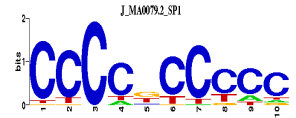
J_MA02681_ADR1

forward*reverse compliment*

Name *E value* *Alignment* *Motif*

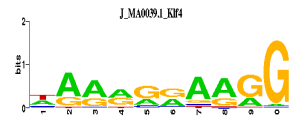
J_MA0079.2_SP1 1.8435e-07

--GGGARGGG
GGGGGNNGGG



J_MA0039.1_Klf4 7.7681e-05

CCCYTCCC---
-CCTTYYTTN



J_MA0341.1_MSN2 1.5889e-04

CCCYTCCC
CCCCT---



J_MA0342.1_MSN4 2.7007e-04

CCCYTCCC
CCCCT---

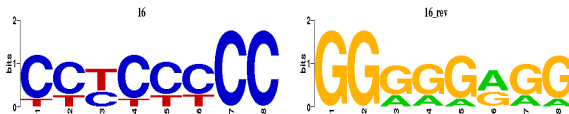


J_MA0366.1_RGM1 5.3476e-04

CCCYTCCC
CCCCT---



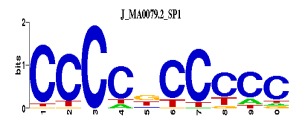
16

*forward**reverse compliment*

Name *E value* *Alignment* *Motif*

J_MA0079.2_SP1 7.2513e-09

--CCYCCCCC
CCCCNCCCCC



J_MA0068.1_Pax4

1.6713e-05

GGGGGRGG-----
GKRNNNNKNNNNNNNNNNKNNWWWTTT

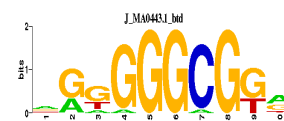


Stamp Results

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J_MA0443.1_btd 3.0826e-05

—CCYCCCC—
YCCGCCCMCN



J_MA0283.1_CHA4 1.0041e-04

GGGGGRGG
GGCGGAGN

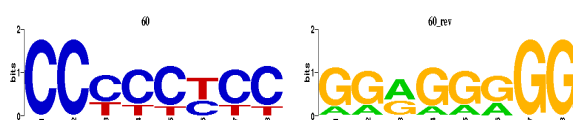


J_MA0056.1_MZF1_1-4 1.6748e-04

CCYCCCC
—TCCCN

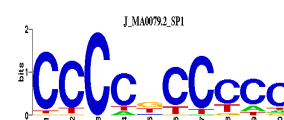


60

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

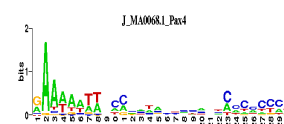
J_MA0079.2_SP1 1.2165e-06

GGRGGGGG—
GGGGNGGGG



J_MA0068.1_Pax4 1.1284e-05

GGRGGGGG-----
GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY



J_MA0341.1_MSN2 1.1411e-05

CCCCCYCC
—CCCCT—



J_MA0342.1_MSN4 2.8315e-05

CCCCCYCC
—CCCCT—



J_MA0366.1_RGM1 7.1561e-05

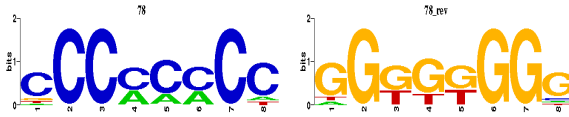
CCCCCYCC
—CCCCT—



78

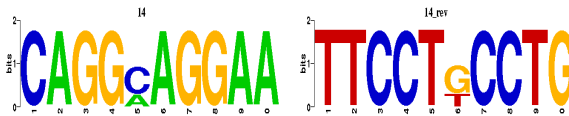
Stamp Results

11/21/15

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0073.1_RREB1	1.5733e-07	-----CCCMCCCC-- CCCCAAAMCACCCMCMMMC	
J_MA0068.1_Pax4	3.6618e-06	GGGGKGGG----- GKRNNNNKNNNNNNNNNNKNNWWWTTTY	
J_MA0079.2_SP1	3.4246e-05	--CCCMCCCC CCCNCCCC	
J_MA0443.1_btd	3.4975e-05	-CCCMCCCC- YCCGCCMCN	
J_MA0140.1_Tal1_Gata	4.4725e-05	-----CCCMCCCC-- NTTATCTNNNNNNNNC	

14

*forward**reverse compliment*

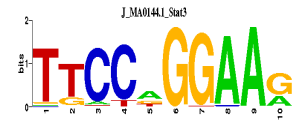
Name	E value	Alignment	Motif
J_MA0149.1_EWSR1-FLI	5.1208e-08	--TTCCTGCCTG----- CCTTCCTTCCTTCCTTCC	
J_MA0156.1_FEV	2.4476e-05	--TTCCTGCCTG AYTTCCTG----	

Stamp Results

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J_MA0144.1_Stat3

3.0174e-04

TTCCTGCCTG---
---CTTCCNGGAA

J_MA0026.1_Eip74EF

3.9004e-04

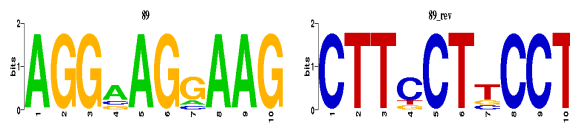
CAGGCAGGAA
CCGGAAR---

J_MA0410.1_UGA3

3.9846e-04

TTCCTGCCTG
-TCCCGCCN-

89

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

J_MA0149.1_EWSR1-FLI1

1.1768e-14

-CTTCCTTCCT-----
CCTTCCTTCCTTCCTTC

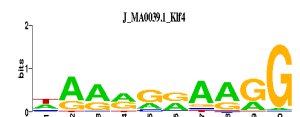
J_MA0080.2_SPI1

1.5797e-06

-CTTCCTTCCT
ACTTCCT----

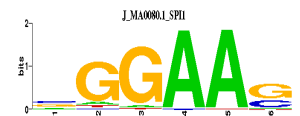
J_MA0039.1_Klf4

8.7846e-05

AGGAAGGAAG-
-NAARRRAAGG

J_MA0080.1_SPI1

1.7931e-04

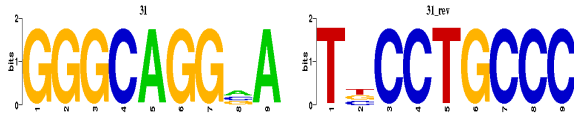
CTTCCTTCCT
STTCN----

J_MA0156.1_FEV

3.7917e-04

-CTTCCTTCCT
AYTTCCTG---

31

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0156.1_FEV	1.5315e-04	--TNCCTGCCC AYTTCCTG---	
J_MA0079.2_SP1	6.1776e-04	--GGGCAGGNA GGGGGNGGGG-	
J_MA0149.1_EWSR1-FLI	6.8478e-04	-----GGGCAGGNA-- GGAAGGAAGGAAGGAAGG	
J_MA0290.1_DAL81	8.7509e-04	-TNCCTGCCC----- AATCCCGCCCCGCGGCTTTT	
J_MA0112.2_ESR1	1.0216e-03	-GGGCAGGNA----- RGGTCANNNTGACCTNNNNN	



82

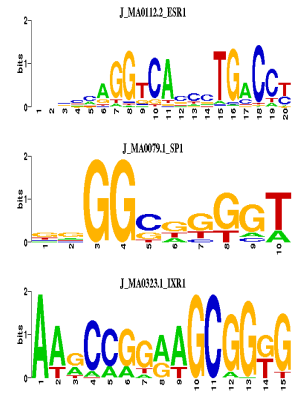
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0149.1_EWSR1-FLI	3.1359e-05	-----AGGCAGGSAG- GGAAGGAAGGAAGGAAGG	
J_MA0340.1_MOT3	8.8002e-04	CTSCCTGCCT- -----TRCCTN	

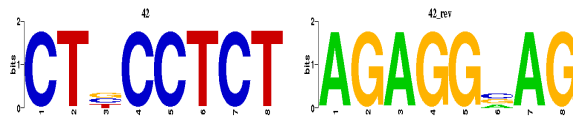
Stamp Results

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J_MA0112.2_ESR1	9.5035e-04	-AGGCAGGSAG----- RGGTCANNNTGACCTNNNNN
J_MA0079.1_SP1	1.2933e-03	-AGGCAGGSAG NNGGCNNGGT-
J_MA0323.1_IXR1	1.8585e-03	AGGCAGGSAG----- AARCCGGAAGCGGKG

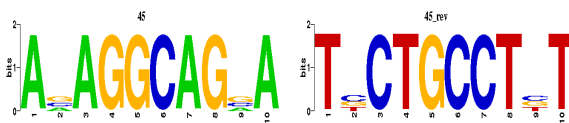


42

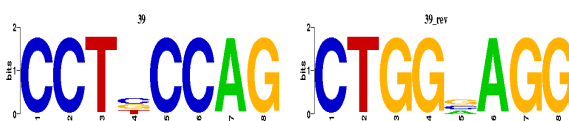
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0081.1_SPIB	1.5964e-06	CTNCCTCT -TTCKST	
J_MA0080.2_SPI1	6.6884e-05	-CTNCCTCT ACTTCCT--	
J_MA0039.1_Klf4	4.3741e-04	-CTNCCTCT- CCTTYYYTTN	
J_MA0370.1_RME1	1.2874e-03	CTNCCTCT--- -TNCCTTTNNA	
J_MA0144.1_Stat3	2.9012e-03	CTNCCTCT-- CTTCCNGGAA	

45

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	3.6222e-04	TNCTGCCTNT— —CCTTYYTTN	
J_MA0149.1_EWSR1-FLI	5.1745e-04	-----ANAGGCAGNA--- GGAAGGAAGGAAGGAAGG	
J_MA0410.1_UGA3	5.9653e-04	TNCTGCCTNT TCCGCCN--	
J_MA0081.1_SPIB	7.4029e-04	TNCTGCCTNT ---TTCKST	
J_MA0340.1_MOT3	8.8002e-04	TNCTGCCTNT ---TRCCTN-	



39

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0304.1_GCR1	4.2183e-04	CTGGNAGG— —TGGAAGCC	
J_MA0144.1_Stat3	1.6190e-03	----CTGGNAGG CTTCNGGAA--	

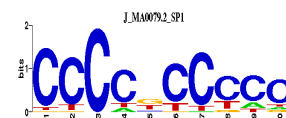
J_MA0320.1_IME1 1.7709e-03

CTGGNAGG
CTCGGCGG

J_MA0026.1_Eip74EF 1.8967e-03

CCTNCCAG
-YTTCCGG

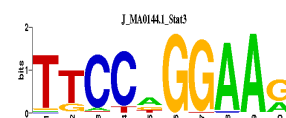
J_MA0079.2_SP1 2.3132e-03

CTGGNAGG--
GGGGNGGGG

48

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

J_MA0144.1_Stat3 3.9587e-09

CTNCCTGG--
CTTCNGGAA

J_MA0156.1_FEV 9.4023e-06

-CTNCCTGG
AYTTCCTG-

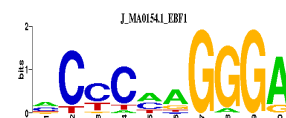
J_MA0026.1_Eip74EF 3.3843e-05

CCAGGNAG
-CCGGAAR

J_MA0080.2_SPI1 3.6173e-05

-CTNCCTGG
ACTTCCT--

J_MA0154.1_EBF1 3.2578e-04

CTNCCTGG---
-TCCCTNGGGN

70

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0144.1_Stat3	5.7663e-06	CTCCCWGG-- CTTCCNGGAA	J_MA0144.1_Stat3
J_MA0154.1_EBF1	3.4746e-05	CTCCCWGG--- -TCCCTNGGGN	J_MA0154.1_EBF1
J_MA0344.1_NHP10	5.9966e-05	-CCWGGGAG NCCGGGGA-	J_MA0344.1_NHP10
J_MA0155.1_INSM1	3.6018e-04	--CCWGGGAG-- TGYCAGGGGGCR	J_MA0155.1_INSM1
J_MA0364.1_REI1	2.4132e-03	CCWGGGAG NCAGGGG-	J_MA0364.1_REI1



33

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	3.2661e-05	CCTNCCCT-- CCTTYYYTTN	J_MA0039.1_Klf4
J_MA0079.2_SP1	5.2329e-05	AGGGNAGG-- GGGGNGGGG	J_MA0079.2_SP1

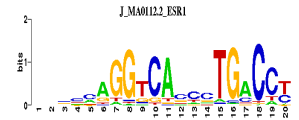
Stamp Results

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J_MA0366.1_RGM1 8.9312e-05

CCTNCCCT
---CCCCT

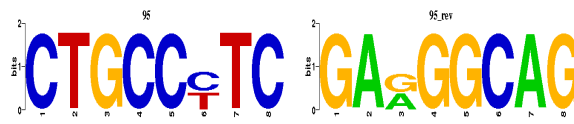
J_MA0112.2_ESR1 9.7287e-05

AGGGNAGG-----
RGGTCANNNTGACCTNNNNN

J_MA0342.1_MSN4 2.6871e-04

CCTNCCCT
---CCCCT

95

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

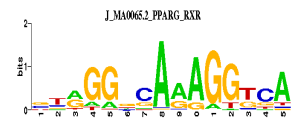
J_MA0149.1_EWSR1-FLI 7.6197e-05

-----CTGCCYTC-----
CCTTCCTTCCTTCCTTCC

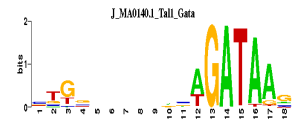
J_MA0340.1_MOT3 8.0570e-04

GARGGCAG
-NAGGYA-

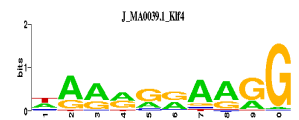
J_MA0065.2_PPARG_RXR 2.4924e-03

-GARGGCAG-----
NNRGGNCAAAGGKCA

J_MA0140.1_Tal1_Gata 2.5801e-03

-----CTGCCYTC-----
NTTATCTNNNNNNNNCNCN

J_MA0039.1_Klf4 3.2672e-03

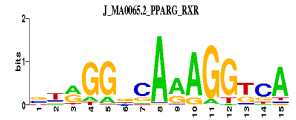
-GARGGCAG-
NAARRRAAGG

96

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

J_MA0065.2_PPARG_RXR 7.3978e-06

-----TCTGCTCT--
TGMCCCTTTGNCCYNN



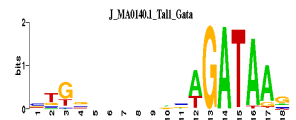
J_MA0451.1_kni 1.6016e-04

TCTGCTCT-----
-NTGCTCTANTTT



J_MA0140.1_Tal1_Gata 2.7716e-04

----TCTGCTCT-----
NTTATCTNNNNNNNNC



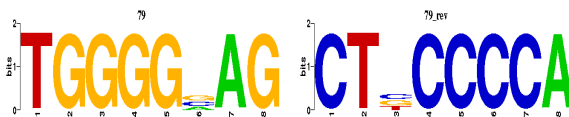
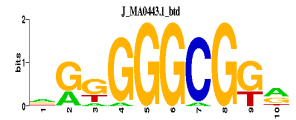
J_MA0326.1_MAC1 5.0103e-04

AGRGCAGA
YGAGCAAA



J_MA0443.1_btd 2.6840e-03

TCTGCTCT--
YCCGCCCMCN

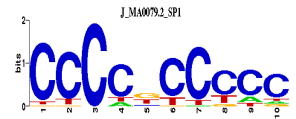


79

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

J_MA0079.2_SP1 2.1969e-05

TGGGGNAG--
-GGGGGNGGGG



J_MA0268.1_ADR1 2.1007e-04

-TGGGGNAG
KTGGGGN--



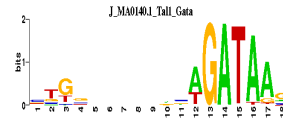
J_MA0436.1_YPR022C 2.1708e-04

--TGGGGNAG
NGTGGGG---



J_MA0140.1_Tal1_Gata 2.4774e-04

-----CTNCCCCA-----
NTTATCTNNNNNNNNNCNN

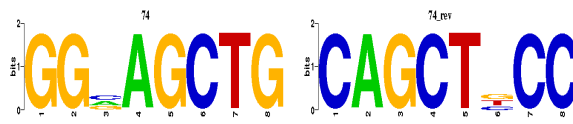


J_MA0056.1_MZF1_1-4 5.9344e-04

CTNCCCCA
-TCCCCN-

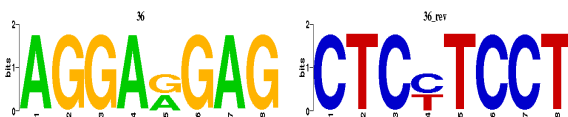


74

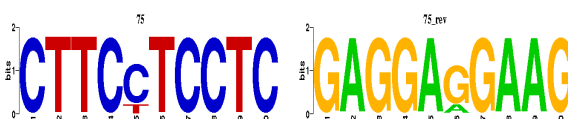
*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0048.1_NHLH1	2.5268e-06	-GGNAGCTG--- NCGCAGCTGCGN	
J_MA0055.1_Myf	4.9741e-06	---CAGCTNCC- CAGCAGYTGCYK	
J_MA0305.1_GCR2	1.8256e-05	-GGNAGCTG NGGAAGC--	
J_MA0304.1_GCR1	1.1308e-04	CAGCTNCC- -GGCTTCCA	
J_MA0323.1_IXR1	1.5993e-04	--CAGCTNCC----- CMCCGCTTCCGGYTT	

36

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0062.1_GABPA	3.7678e-06	--AGGARGAG ACCGGAAGNS	
J_MA0080.2_SPI1	1.1012e-05	CTCYTCCT -ACTTCCT	
J_MA0283.1_CHA4	1.9029e-04	-CTCYTCCT NCTCCGCC-	
J_MA0144.1_Stat3	9.7871e-04	CTCYTCCT---- --CTTCNGGAA	
J_MA0156.1_FEV	1.4308e-03	CTCYTCCT- -AYTTCCTG	



75

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0080.2_SPI1	1.5197e-06	-CTTCCTCCTC ACTTCCT----	
J_MA0081.1_SPIB	1.0678e-05	CTTCCTCCTC -TTCKST--	

Stamp Results

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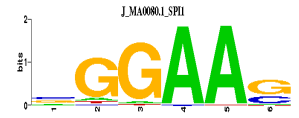
J_MA0090.1_TEAD1 1.3821e-04

---CTTCCTCCTC
YACATTCCWSNG-



J_MA0080.1_SPI1 1.7515e-04

CTTCCTCCTC
STTCN----

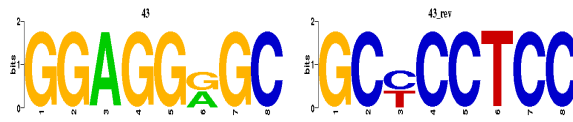


J_MA0149.1_EWSR1-FLI 3.4989e-04

-----CTTCCTCCTC---
CCTTCCTTCCTTCCTCC

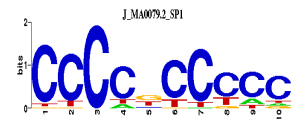


43

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

J_MA0079.2_SP1 4.0679e-06

---GGAGG_RGC
GGGGGNGGGG-



J_MA0366.1_RGM1 2.4069e-05

GCYCCTCC
-CCCCT--



J_MA0342.1_MSN4 2.5228e-05

GCYCCTCC
-CCCCT--



J_MA0039.2_Klf4 4.4417e-05

GCYCCTCC--
GCCMC_RCCCN



J_MA0341.1_MSN2 5.9577e-05

GCYCCTCC
-CCCCT--



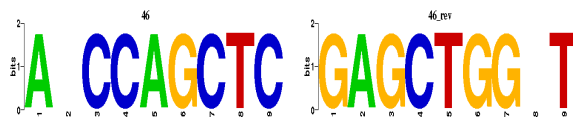
5



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	1.0967e-03	CTGGCTGGCTG --NGCTGGN--	
J_MA0119.1_TLX1_NFIC	1.3452e-03	CTGGCTGGCTG--- TTGGCNNNSTGCCA	
J_MA0060.1_NFYA	1.9816e-03	---CTGGCTGGCTG-- NNNCYSATTGGYYNNN	
J_MA0079.1_SP1	4.3622e-03	CTGGCTGGCTG NNGGCNGGGT--	
J_MA0402.1_SWI5	4.3852e-03	CAGCCAGCCAG -NACCAGCA--	

46

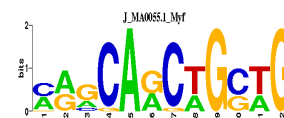
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	3.9729e-04	GAGCTGGNT -NGCTGGN-	
J_MA0145.1_Tcfcp2l1	7.0301e-04	-----GAGCTGGNT CYGGNTNNRNCYGG--	

J_MA0402.1_SWI5 1.4932e-03

ANCCAGCTC
NACCAGCA-

J_MA0055.1_Myf 2.2776e-03

---GAGCTGGNT
CAGCAGYTGCYK

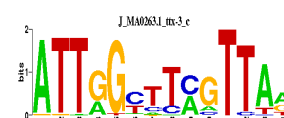
J_MA0138.1_REST 2.9682e-03

GAGCTGGNT-----
GNGCTGTCCNWGGTGCTGA

35

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

J_MA0263.1_ttx-3_c 2.8972e-04

-----GNAGCCAGT
YTAACKAARCCAAT

J_MA0213.1_brk 6.0494e-04

GNAGCCAGT
RGCGCCRS-

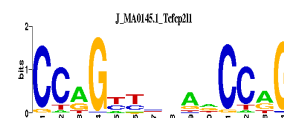
J_MA0260.1_che-1 6.1371e-04

ACTGGCTNC
---GGYTTC

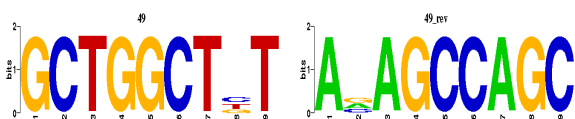
J_MA0304.1_GCR1 1.5497e-03

ACTGGCTNC--
---GGCTTCCA

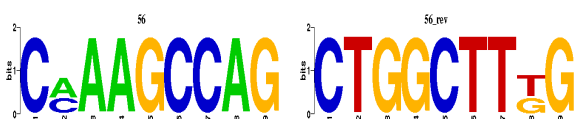
J_MA0145.1_Tcfcp2l1 3.1745e-03

ACTGGCTNC-----
-CYGGNTNNRNCYGG

49

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	3.9729e-04	ANAGCCAGC— ---NCCAGCN	
J_MA0053.1_MNB1A	4.1247e-04	GCTGGCTNT ----NCTTT	
J_MA0064.1_PBF	5.8508e-04	GCTGGCTNT ----RCTTT	
J_MA0145.1_Tcfcp2l1	1.0769e-03	GCTGGCTNT----- -CYGGNTNNRNCYGG	
J_MA0020.1_Dof2	1.4146e-03	GCTGGCTNT ---NGCTTT	



56

*forward**reverse compliment*

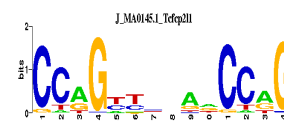
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0053.1_MNB1A	5.7529e-05	CTGGCTTKG ---NCTTT-	
J_MA0064.1_PBF	8.5573e-05	CTGGCTTKG ---RCTTT-	

Stamp Results

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J_MA0145.1_Tcfcp2l1 1.1632e-04

CTGGCTTKG-----
CYGGNTNNRNCYGG



J_MA0020.1_Dof2 2.6115e-04

CTGGCTTKG
--NGCTTT--



J_MA0021.1_Dof3 7.1533e-04

CTGGCTTKG
--NRCTTT--



51

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

J_MA0213.1_brk

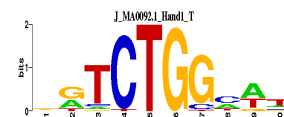
6.5288e-04

AGAGCCAGAGCC
RGCGCCRS----



J_MA0092.1_Hand1_T 7.0522e-04

AGAGCCAGAGCC
-NWNCCAGAYN-



J_MA0332.1_MET28 1.1280e-03

AGAGCCAGAGCC
----CCACAG--



J_MA0278.1_BAS1 1.6934e-03

-----GGCTCTGGCTCT--
NNNWNVTGACTCNGGCYNNNN

J_MA0451.1_kni

3.4007e-03

-GGCTCTGGCTCT
NTGCTCTANTTT-

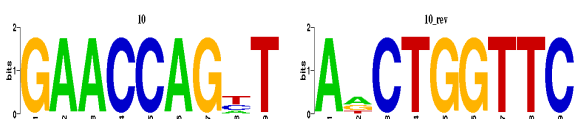


76

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0150.1_NFE2L2	1.4259e-04	--CWGAGCCAG TGCTNWTGTCAY	J_MA0150.1_NFE2L2
J_MA0099.2_API	3.3758e-04	CWGAGCCAG -TGAGTCA-	J_MA0099.2_API
J_MA0213.1_brk	9.8650e-04	CWGAGCCAG -RGCGCCRS	J_MA0213.1_brk
J_MA0099.1_Fos	2.2179e-03	CTGGCTCWG -TGANTCAC	J_MA0099.1_Fos
J_MA0326.1_MAC1	2.6798e-03	CTGGCTCWG TTTGCTCR-	J_MA0326.1_MAC1

10

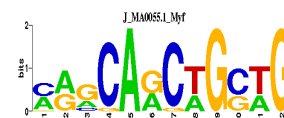
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0074.1_RXRA_VDR	1.7569e-04	-----ANCTGGTTC- GGGTCANNRGTTC	J_MA0074.1_RXRA_VDR
J_MA0349.1_OPI1	3.8190e-04	ANCTGGTTC- ---NGGTTCN	J_MA0349.1_OPI1

J_MA0402.1_SWI5 7.5514e-04

GAACCAGNT
-NACCAGCA

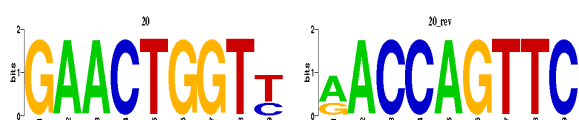
J_MA0055.1_Myf 1.2153e-03

GAACCAGNT----
-CAGCAGYTGCYK

J_MA0145.1_Tcfcp211 1.6063e-03

-----ANCTGGTTC
CYGGNTNNRNCYGG---

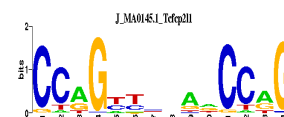
20

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

J_MA0074.1_RXRA_VDR 4.7384e-05

-GAACTGGTT-----
TGAACYCNNTGACCC

J_MA0145.1_Tcfcp211 7.4306e-05

AACCAGTTC-----
--CCRGNYNNANCCRG

J_MA0402.1_SWI5 2.1205e-03

AACCAGTTC
NACCAGCA-

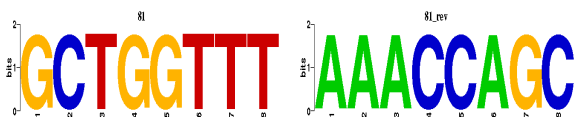
J_MA0335.1_MET4 3.3685e-03

AACCAGTTC
CCACAGNT-

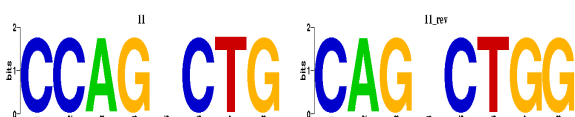
J_MA0188.1_Dr 4.0650e-03

GAACTGGTT
TAATTGG--

81

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0402.1_SWI5	1.9750e-06	AAACCAGC- -NACCAGCA	
J_MA0145.1_Tcfcp211	1.0008e-05	GCTGGTTT----- -CYGGNTNNRNCYGG	
J_MA0267.1_ACE2	1.7345e-04	AAACCAGC- --NCCAGCN	
J_MA0260.1_che-1	4.1859e-04	GCTGGTTT- ---GGYTTC	
J_MA0073.1_RREB1	4.2153e-04	-----GCTGGTTT----- NGKKKGKGGGTGKTTTGGGG	



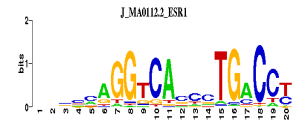
11

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	7.3617e-04	CAGNCTGG- --NGCTGGN	
J_MA0402.1_SWI5	2.1961e-03	--CCAGNCTG NACCAGCA--	

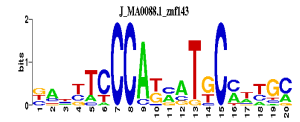
J_MA0112.2_ESR1 2.6286e-03

----CAGNCTGG-----
 RGGTCANNNTGACCTNNNNN



J_MA0088.1_znf143 1.0889e-02

-----CCAGNCTG-----
 NNNNTCCCAKNNTKCMNNGM

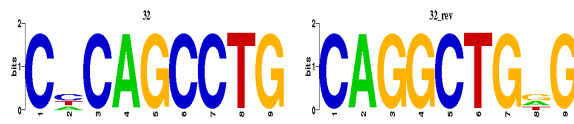


J_MA0410.1_UGA3 1.7170e-02

--CCAGNCTG
 TCCCGCCN--

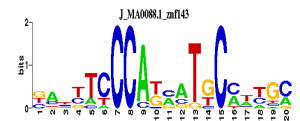


32

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

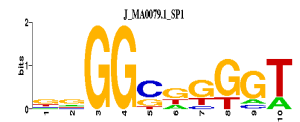
J_MA0088.1_znf143 5.2096e-04

-----CNCAGCCTG-----
 NNNNTCCCAKNNTKCMNNGM



J_MA0079.1_SP1 6.4884e-04

--CNCAGCCTG
 ACCNGGCCNN



J_MA0283.1_CHA4 9.2928e-04

--CNCAGCCTG
 NCTCCGCC--



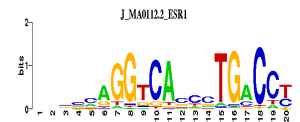
J_MA0267.1_ACE2 2.4333e-03

CAGGCTGNG
 --NGCTGGN

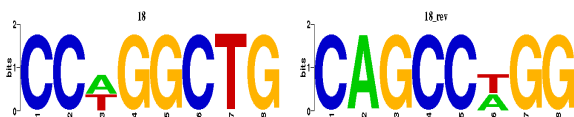


J_MA0112.2_ESR1 3.1346e-03

----CAGGCTGNG-----
 RGGTCANNNTGACCTNNNNN

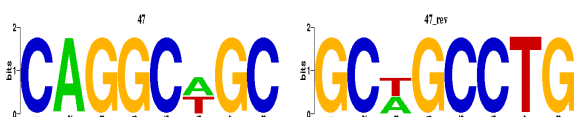


18

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0112.2_ESR1	2.8805e-03	---CCWGGCTG----- RGGTCANNNTGACCTNNNNN	
J_MA0144.1_Stat3	3.5333e-03	CAGCCWGG-- CTTCCNGGAA	
J_MA0155.1_INSM1	6.6332e-03	-----CCWGGCTG YGCCCCCTGRCA-	
J_MA0344.1_NHP10	9.4320e-03	--CCWGGCTG TCCCCGGN--	
J_MA0456.1_opa	1.1101e-02	CAGCCWGG---- CNGCGGGGGGKC	

47

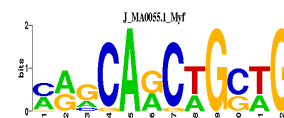
*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0340.1_MOT3	3.5319e-04	GCWGCCTG --TRCCTN	
J_MA0144.1_Stat3	1.7290e-03	GCWGCCTG--- -CTTCCNGGAA	

J_MA0156.1_FEV 1.7588e-03

GCWGCCTG
AYTTCCTG

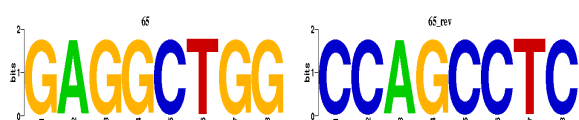
J_MA0055.1_Myf 2.9785e-03

-----GCWGCCTG
CAGCAGYTGCYK-

J_MA0305.1_GCR2 5.0412e-03

CAGGCWGC
-NGGAAGC

65

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

J_MA0267.1_ACE2 1.7345e-04

-CCAGCCTC
NCCAGCN--

J_MA0402.1_SWI5 6.1244e-04

--CCAGCCTC
NACCAGCA--

J_MA0079.2_SP1 6.4283e-04

-GAGGCTGG-
GGGGGNGGGG

J_MA0410.1_UGA3 6.2002e-03

-CCAGCCTC
TCCCGCCN-

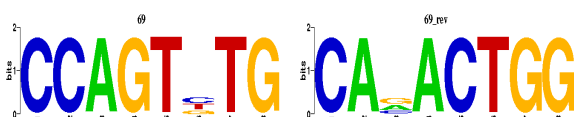
J_MA0079.1_SP1 6.5644e-03

--CCAGCCTC
ACCCNGCCNN

66

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	3.1618e-04	GAGCCTGNG-- --NCCGGGGA	
J_MA0162.1_Egr1	4.3845e-03	---CNCAGGCTC MCGCCCACGCN-	
J_MA0332.1_MET28	6.8396e-03	-CNCAGGCTC CCACAG----	
J_MA0154.1_EBF1	7.0305e-03	GAGCCTGNG-- -TCCCTNGGGA	
J_MA0321.1_INO2	8.0243e-03	--CNCAGGCTC TTCACATGC--	



69

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	1.6201e-03	-----CANACTGG CYGGNTNNRNCYGG	
J_MA0451.1_kni	5.9132e-03	CANACTGG----- -AAANTAGAGCAN	

J_MA0077.1_SOX9 1.4820e-02

CCAGTNTG-
CYATTGTTN

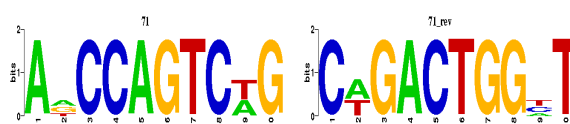
J_MA0335.1_MET4 2.0679e-02

--CCAGTNTG
CCACAGNT--

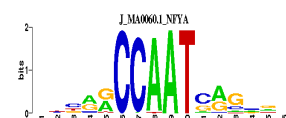
J_MA0267.1_ACE2 2.0842e-02

CANACTGG-
--NGCTGGN

71

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

J_MA0060.1_NFYA 8.6194e-06

---CWGACTGGNT---
NNNCYSATTGGYYNNN

J_MA0314.1_HAP3 1.2456e-04

----ANCCAGTCWG-
NYYNRRCCAATSAGA

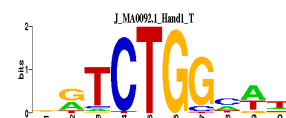
J_MA0316.1_HAP5 1.5804e-04

ANCCAGTCWG-----
-ACCAATNAGMNNSSN

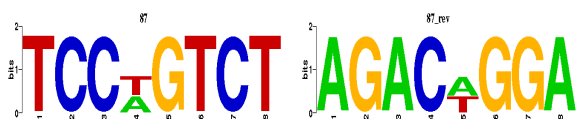
J_MA0271.1_ARG80 2.2982e-03

ANCCAGTCWG
---GNGTCW-

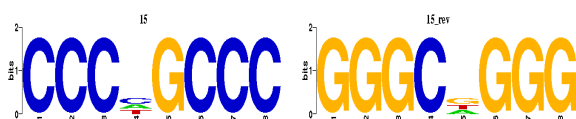
J_MA0092.1_Hand1_T 3.0842e-03

-ANCCAGTCWG
NWNCCAGAYN-

87

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0207.1_achi	2.0432e-04	TCCWGTCT --CTGTCA	
J_MA0029.1_Evi1	6.4259e-04	-----TCCWGTCT- NNTTATCTTRTCTN	
J_MA0227.1_hth	6.5764e-04	TCCWGTCT --CTGTCA	
J_MA0271.1_ARG80	7.6883e-03	TCCWGTCT --GNGTCW	
J_MA0156.1_FEV	8.0148e-03	---TCCWGTCT AYTTCCTG---	



15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	5.2411e-10	--GGGCNGGG GGGGGNGGGG	
J_MA0079.1_SP1	6.7165e-08	-CCCNGCCC- ACCCNGCCNN	

Stamp Results

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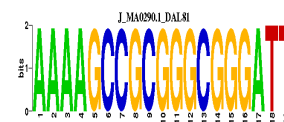
J_MA0039.2_Klf4 6.8902e-08

—CCCNCCCC—
GCCMCRCN



J_MA0290.1_DAL81 7.0510e-06

--CCCNCCCC-----
AATCCCGCCCCGCGGCTTTT

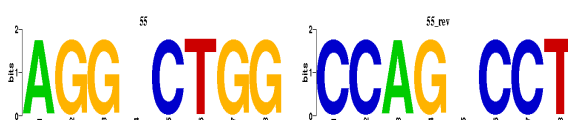


J_MA0338.1_MIG2 1.5266e-05

GGGCNNGG
—NGYGGGG

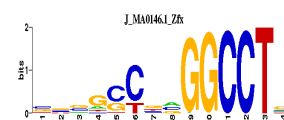


55

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

J_MA0146.1_Zfx 9.4108e-05

-----CCAGNCCT-
NNNGCCNNGGCCTN



J_MA0403.1_TBF1 5.5115e-04

--AGGNCTGG
NTAGGGYT--



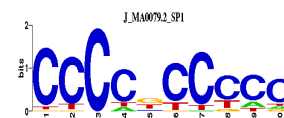
J_MA0267.1_ACE2 7.1635e-04

—CCAGNCCT
NCCAGCN--



J_MA0079.2_SP1 2.0899e-03

—CCAGNCCT-
CCCCNCCCCC



J_MA0402.1_SWI5 2.1439e-03

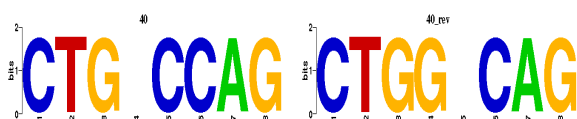
--CCAGNCCT
NACCAGCA--



38

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	1.0392e-03	CTNCCCAG- -TCCCCGGN	J_MA0344.1_NHP10
J_MA0056.1_MZF1_1-4	2.0546e-03	CTGGGNAG -NGGGGA-	J_MA0056.1_MZF1_1-4
J_MA0320.1_IME1	3.2801e-03	CTGGGNAG CTCGGCGG	J_MA0320.1_IME1
J_MA0282.1_CEP3	3.4890e-03	CTNCCCAG NTTCCGAR	J_MA0282.1_CEP3
J_MA0080.1_SPI1	3.7306e-03	CTNCCCAG STTCN--	J_MA0080.1_SPI1



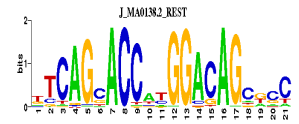
40

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0381.1_SKN7	6.1294e-04	CTGGNCAG NYGCC--	J_MA0381.1_SKN7
J_MA0138.1_REST	2.0176e-03	-----CTGGNCAG--- TCAGCACCWNGGACAGCNC	J_MA0138.1_REST

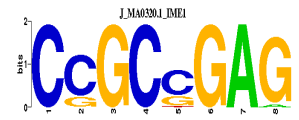
J_MA0138.2_REST 3.2358e-03

----CTGNCCAG-----
 GNNGCTGTCCNNGGTGCTGAN



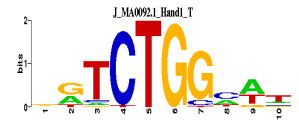
J_MA0320.1_IME1 6.4290e-03

CTGGNCAG
 CTCGGCGG



J_MA0092.1_Hand1_T 1.2881e-02

CTGGNCAG---
 -NWNCCAGAYN

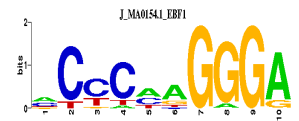


98

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

J_MA0154.1_EBF1 1.6300e-05

--CCTGGGGWG
 TCCCTNGGGN--



J_MA0116.1_Zfp423 2.9322e-04

-CWCCCCAGG-----
 GSMMCCYARGGKKN



J_MA0332.1_MET28 3.2861e-04

CWCCCCAGG
 --CCACAG--



J_MA0344.1_NHP10 3.6354e-04

CWCCCCAGG
 -TCCCCGN

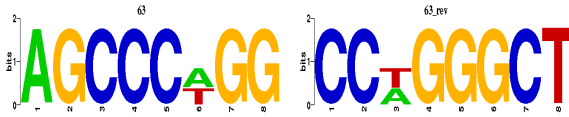


J_MA0056.1_MZF1_1-4 4.0013e-04

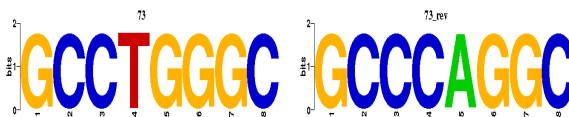
CWCCCCAGG
 -TCCCCN--



63

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0163.1_PLAG1	1.3112e-03	----CCWGGGCT-- CCCCCTTNGGCCCC	
J_MA0403.1_TBF1	1.6225e-03	CCWGGGCT NTAGGGYT	
J_MA0162.1_Egr1	2.3473e-03	-AGCCWGG-- MCGCCCACGCN	
J_MA0364.1_REI1	2.8529e-03	CCWGGGCT NCAGGGG-	
J_MA0154.1_EBF1	3.5895e-03	--CCWGGGCT TCCCTNGGGN	



73

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0162.1_Egr1	7.0462e-07	--GCCCAGGC- MCGCCCACGCN	
J_MA0146.1_Zfx	3.6840e-06	---GCCTGGGC--- NAGGCCNNGGCNNN	

Stamp Results

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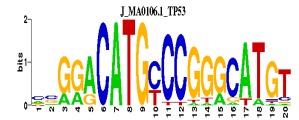
J_MA0344.1_NHP10 1.3504e-05

CCCCAGGC
TCCCCGGN



J_MA0106.1_TP53 2.1297e-05

-----GCCTGGGC-----
NNGGACATGCCCGGGCATGT

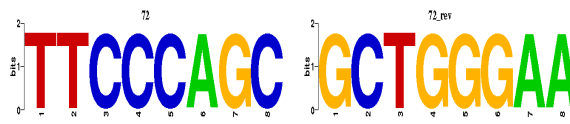


J_MA0154.1_EBF1 8.4846e-04

-CCCCAGGC-
NCCCNAGGGA

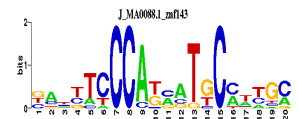


72

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

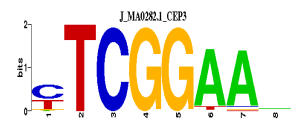
J_MA0088.1_znf143 7.4680e-06

---TTCCCAGC-----
NNNNTCCCAKNNTKCMNNGM



J_MA0282.1_CEP3 4.1229e-05

-TTCCCAGC
NTTCCGAR-



J_MA0344.1_NHP10 1.1652e-04

GCTGGGAA
NCCGGGGA



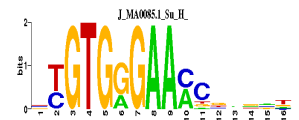
J_MA0267.1_ACE2 1.7345e-04

-GCTGGGAA
NGCTGGN--



J_MA0085.1_Su_H_ 2.7348e-04

-----TTCCCAGC-
NNNNNGKTTCCCACRN



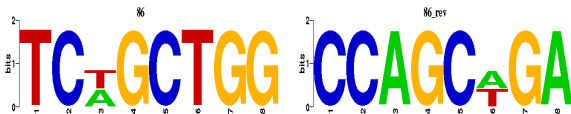
9



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0091.1_TAL1_TCF3	1.8470e-05	--CCAGCTGG--- AMCAGATGKTNN	
J_MA0048.1_NHLH1	4.5394e-05	--CCAGCTGG-- NCGCAGCTGCGN	
J_MA0055.1_Myf	1.4456e-04	--CCAGCTGG-- CAGCAGYTGCYK	
J_MA0267.1_ACE2	1.7345e-04	--CCAGCTGG NCCAGCN--	
J_MA0086.1_sna	1.9775e-04	CCAGCTGG --CACCTG--	

86

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0402.1_SWI5	4.3304e-05	--CCAGCWGA NACCAGCA--	
J_MA0287.1_CUP2	7.9246e-05	----TCWGCTGG CWTTTYTGCTG-	

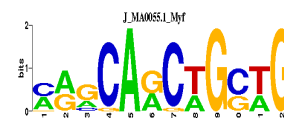
J_MA0267.1_ACE2 1.7345e-04

—CCAGCWGA
NCCAGCN—



J_MA0055.1_Myf 3.3227e-04

--TCWGCTGG--
CAGCAGTGCYK

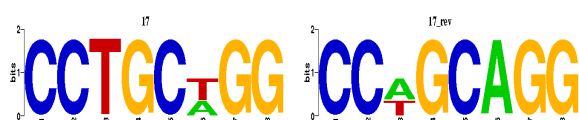


J_MA0048.1_NHLH1 4.9888e-04

--TCWGCTGG--
NCGCAGCTGCGN



17

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

J_MA0139.1_CTCF 4.5748e-06

-----CCTGCWGG---
NNSYGCCMCCTRSTGGNNR



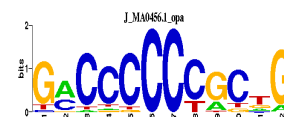
J_MA0402.1_SWI5 7.9410e-06

--CCWGCAGG
NACCAGCA--



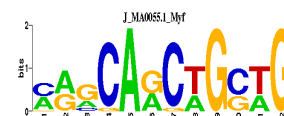
J_MA0456.1_opa 3.1047e-04

-----CCTGCWGG
GMCCCCCGCNG--



J_MA0055.1_Myf 3.5490e-04

-----CCTGCWGG
MRGCARCTGCTG--

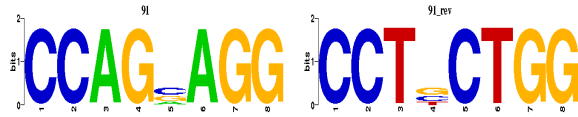


J_MA0267.1_ACE2 7.7524e-04

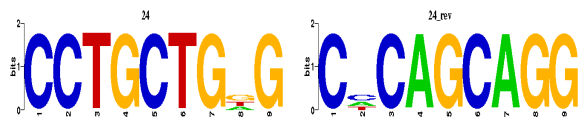
—CCWGCAGG
NCCAGCN--



91

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0402.1_SWI5	1.1584e-05	--CCAGNAGG NACCAGCA--	
J_MA0144.1_Stat3	7.7599e-05	CCTNCTGG-- CTTCCNGGAA	
J_MA0139.1_CTCF	9.9703e-05	-----CCTNCTGG-- NNSYGCCMCCTRSTGGNNR	
J_MA0267.1_ACE2	8.7532e-04	CCTNCTGG-- --NGCTGGN	
J_MA0088.1_znf143	1.2509e-03	-----CCAGNAGG----- NNNNTCCCAKNNTKCMNNGM	



24

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0150.1_NFE2L2	5.0661e-05	CCTGCTGNG---- --TGCTNWTGTCAY	
J_MA0402.1_SWI5	5.8028e-05	--CNCAGCAGG NACCAGCA--	

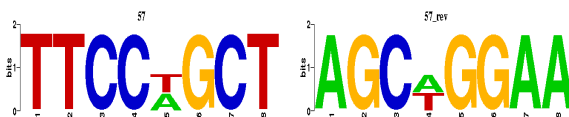
11/21/15

reverse compliment

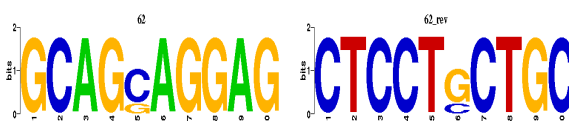
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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0090.1_TEAD1	4.4294e-05	AGCWGGAA---- CNSWGGAATGTR	
J_MA0156.1_FEV	7.6996e-05	--TTCCWGCT AYTTCTG--	
J_MA0323.1_IXR1	9.6553e-05	-AGCWGGAA----- AARCCGGAAGCGGKG	
J_MA0144.1_Stat3	1.0490e-04	-TTCCWGCT- CTTCCNGGAA	
J_MA0287.1_CUP2	4.8768e-04	--TTCCWGCT- CWTTTYTGCTG	



62

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	3.4282e-07	CTCCTGCTGC-- CAGCAGYTGCYK	
J_MA0456.1_opa	1.2552e-04	GCAGCAGGAG--- -CNGCGGGGGGKC	

J_MA0287.1_CUP2 7.0326e-04

--CTCCTGCTGC
CWTTTYTGCTG--



J_MA0086.1_sna 7.1249e-04

CTCCTGCTGC
CACCTG----

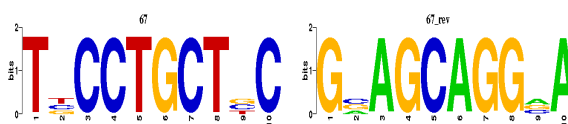


J_MA0454.1_odd 1.8412e-03

CTCCTGCTGC--
NTGCTACTGTN

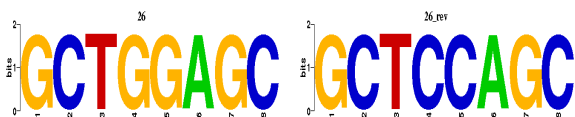


67

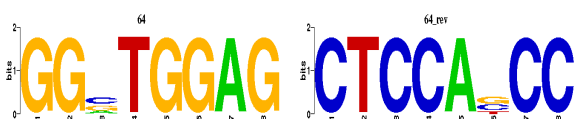
*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0156.1_FEV	2.3028e-04	--TNCCTGCTNC AYTTCCTG----	 Sequence logo for J_MA0156.1_FEV. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The sequence is CAGGAAT.
J_MA0323.1_IXR1	4.7791e-04	GNAGCAGGNA----- -AARCCGGAAGCGGKG	 Sequence logo for J_MA0323.1_IXR1. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 15. The sequence is AAGCAGGAGCGG.
J_MA0276.1_ASH1	5.7452e-04	TNCCTGCTNC-- --CCYGATNYGG	 Sequence logo for J_MA0276.1_ASH1. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The sequence is CCATCCGG.
J_MA0287.1_CUP2	1.2930e-03	GNAGCAGGNA-- -CAGCARAAWG	 Sequence logo for J_MA0287.1_CUP2. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The sequence is CAGCAGAAATG.
J_MA0144.1_Stat3	2.3969e-03	-TNCCTGCTNC CTTCNGGAA-	 Sequence logo for J_MA0144.1_Stat3. The y-axis represents 'bits' from 0 to 2. The x-axis shows positions 1 to 10. The sequence is TCCGGAA.

26

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	1.7345e-04	GCTCCAGC- --NCCAGCN	
J_MA0451.1_kni	2.1184e-04	--GCTCCAGC-- NTGCTCTANTTT	
J_MA0213.1_brk	3.0442e-04	-GCTCCAGC RGCGCCRS-	
J_MA0402.1_SWI5	6.1244e-04	GCTCCAGC- -NACCAGCA	
J_MA0130.1_ZNF354C	8.7226e-04	GCTGGAGC -GTGGAK-	



64

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0130.1_ZNF354C	6.6989e-05	GGNTGGAG --GTGGAK	
J_MA0373.1_RPN4	2.0834e-04	CTCCANCC CGCCACC-	

J_MA0410.1_UGA3 2.6890e-04

CTCCANCC-
-TCCCGCCN

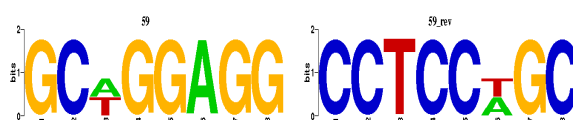
J_MA0039.2_Klf4 5.6778e-04

-CTCCANCC-
GCCMCRCCCN

J_MA0283.1_CHA4 1.1523e-03

GGNTGGAG-
-GGCGGAGN

59

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

J_MA0155.1_INSM1 9.1516e-04

--GCWGGAGG--
TGYCAGGGGGCR

J_MA0144.1_Stat3 1.0976e-03

CCTCCWGC--
CTTCCNGGAA

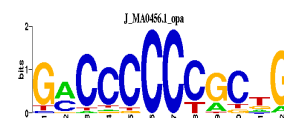
J_MA0086.1_sna 1.6677e-03

CCTCCWGC
-CACCTG-

J_MA0267.1_ACE2 2.2276e-03

-GCWGGAGG
NGCTGGN--

J_MA0456.1_opa 2.6545e-03

--GCWGGAGG--
CNGCGGGGGGKC

19

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	4.9213e-07	----AGCWGCAG MRGCARCTGCTG	
J_MA0454.1_odd	5.9369e-05	CTGCWGCT--- NTGCTACTGTN	
J_MA0402.1_SWI5	1.6796e-04	CTGCWGCT- -TGCTGGTN	
J_MA0048.1_NHLH1	8.2856e-04	CTGCWGCT---- NCGCAGCTGCGN	
J_MA0287.1_CUP2	3.7639e-03	-----CTGCWGCT CWTTTYTGCTG--	



37

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	9.2382e-13	CAGCAGCTGC-- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	6.7062e-09	CAGCAGCTGC-- NCGCAGCTGCGN	

J_MA0454.1_odd 3.8215e-04

GCAGCTGCTG--
-NTGCTACTGTN

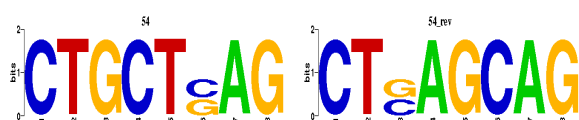
J_MA0086.1_sna 8.8570e-04

CAGCAGCTGC
---CACCTG-

J_MA0402.1_SWI5 3.2660e-03

---CAGCAGCTGC
NACCAGCA-----

54

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

J_MA0150.1_NFE2L2 3.6506e-05

CTGCTSAG----
-TGCTNWTGTCAY

J_MA0326.1_MAC1 5.8923e-05

-CTGCTSAG
TTTGCTCR-

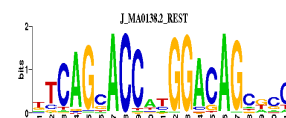
J_MA0320.1_IME1 3.5438e-03

CTSAGCAG
CTCGGCGG

J_MA0138.1_REST 3.7629e-03

CTSAGCAG-----
-TCAGCACCWNGGACAGCNC

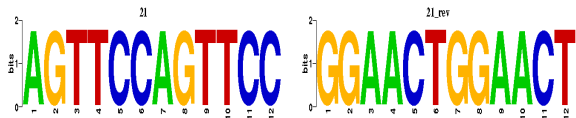
J_MA0138.2_REST 5.4805e-03

CTSAGCAG-----
NTCAGCACCNNGGACAGCNNC

61

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0150.1_NFE2L2	2.9523e-06	CTGCWGAG---- -TGCTNWGTCAY	
J_MA0055.1_Myf	5.3314e-04	CTCWGCAG----- --CAGCAGYTGCYK	
J_MA0320.1_IME1	2.5163e-03	CTCWGCAG CTCGGCGG	
J_MA0385.1_SOK2	4.1085e-03	CTCWGCAG--- NNMTGCAKNNN	
J_MA0138.1_REST	4.3150e-03	CTCWGCAG----- -TCAGCACCWNGGACAGCNC	



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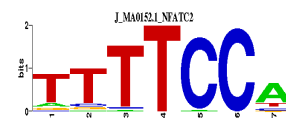
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0137.1_STAT1	1.0096e-06	-GGAACCTGGAAC- RGAAANNGAACTN	
J_MA0076.1_ELK4	1.2726e-04	AGTTCCAGTTCC ACTTCCGGT---	

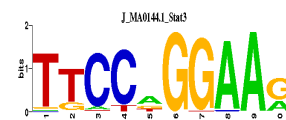
J_MA0050.1_IRF1 1.2814e-03

AGTTCCAGTTCC
GGTTTCRNTTTN

J_MA0152.1_NFATC2 1.6758e-03

GGAAGTGGAACT
-----TGGAAAA

J_MA0144.1_Stat3 1.7015e-03

GGAAGTGGAACT
CTTCNGGAA--

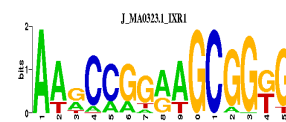
80

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

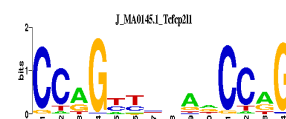
J_MA0451.1_kni 3.5122e-05

----TCCAGYTT
NTGCTCTANTTT

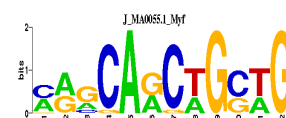
J_MA0323.1_IXR1 8.3671e-05

AARCTGGA-----
AARCCGGAAGCGGKG

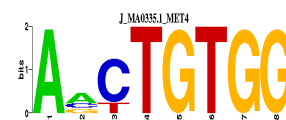
J_MA0145.1_Tcfcp2l1 1.7661e-04

-----AARCTGGA
CYGGNTNNRNCYGG-

J_MA0055.1_Myf 1.6295e-03

-TCCAGYTT---
CAGCAGYTGCYK

J_MA0335.1_MET4 2.2413e-03

-TCCAGYTT
CCACAGNT-

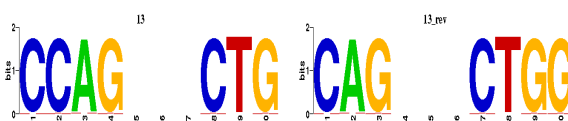
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Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0323.1_IXR1	2.7511e-05	-----TCCTGNNT CMCCGCTTCCGGYTT	
J_MA0417.1_YAP5	2.9050e-04	TCCTGNNT --ATGCTT	
J_MA0233.1_mirr	8.1537e-04	TCCTGNNT ---TGTTW	
J_MA0156.1_FEV	8.1991e-04	AANCAGGA--- ---CAGGAART	
J_MA0297.1_FKH2	1.6239e-03	--AANCAGGA GTAAACA---	



13

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	1.0624e-02	--CCAGNNNCTG CAGCAGYTGCYK	
J_MA0267.1_ACE2	4.5860e-02	CAGNNNCTGG- ----NGCTGGN	

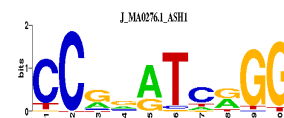
J_MA0402.1_SWI5 9.0756e-02

--CCAGNNNCTG
NACCAGCA----



J_MA0276.1_ASH1 1.3758e-01

CCAGNNNCTG
CCYGATNYGG



J_MA0126.1_ovo 1.4253e-01

CCAGNNNCTG
NCNGTTACW-



22

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

J_MA0451.1_kni 5.7160e-04

CTNCTCTG----
NTGCTCTANTTT



J_MA0081.1_SPIB 1.2272e-03

CAGAGNAG
-ASMGGAA



J_MA0326.1_MAC1 3.6207e-03

-CTNCTCTG
TTTGCTCR-



J_MA0370.1_RME1 7.9043e-03

CTNCTCTG--
TNCCTTTNNA

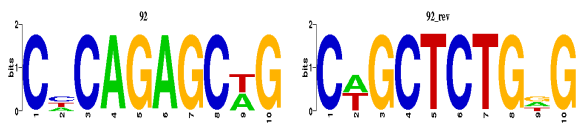


J_MA0035.2_Gata1 1.7631e-02

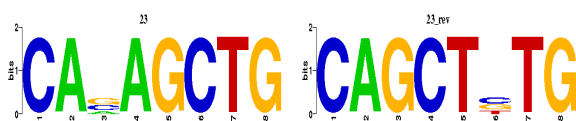
--CTNCTCTG-
NNNTTATCTNN



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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0451.1_kni	3.7598e-03	CWGCTCTGNG-- NTGCTCTANTTT	
J_MA0332.1_MET28	5.4886e-03	CWGCTCTGNG ---CTGTGG-	
J_MA0335.1_MET4	8.0460e-03	CNCAGAGCWG -CCACAGNT-	
J_MA0276.1_ASH1	9.3695e-03	CNCAGAGCWG- -CCRNATCRGG	
J_MA0326.1_MAC1	1.6062e-02	CNCAGAGCWG- ---YGAGCAAA	



23

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	6.8666e-05	-CANAGCTG--- NCGCAGCTGCGN	
J_MA0335.1_MET4	1.5008e-04	-CANAGCTG CCACAGNT-	

J_MA0332.1_MET28 1.2396e-03

CAGCTNTG-
---CTGTGG

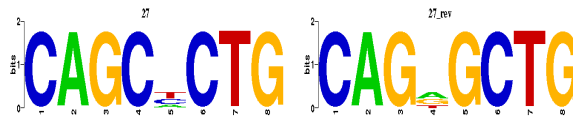
J_MA0053.1_MNB1A 3.6831e-03

CAGCTNTG
--NCTTT-

J_MA0064.1_PBF 4.9246e-03

CAGCTNTG
--RCTTT-

27

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

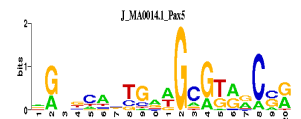
J_MA0403.1_TBF1 2.1796e-03

-CAGNGCTG
NTAGGGYT-

J_MA0364.1_REI1 3.8833e-03

-CAGNGCTG
NCAGGGG--

J_MA0014.1_Pax5 5.1190e-03

-----CAGNGCTG-
YSGYYMCGCWNCRRNNNNNCN

J_MA0048.1_NHLH1 1.0506e-02

-CAGNGCTG---
NCGCAGCTGCGN

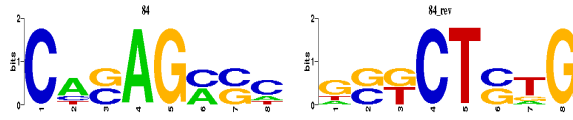
J_MA0451.1_kni 1.3548e-02

CAGCNCTG----
NTGCTCTANTTT

84

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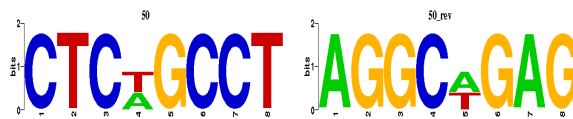


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0332.1_MET28	5.3710e-04	GSKCTSTG- ---CTGTGG	
J_MA0316.1_HAP5	4.7451e-03	-----CASAGMSC- ACCAATNAGMNNSSN	
J_MA0335.1_MET4	8.2557e-03	-CASAGMSC CCACAGNT-	
J_MA0014.1_Pax5	1.1447e-02	-----CASAGMSC- YSGYIMCGCWNCRRNNNNNCN	
J_MA0138.1_REST	1.9805e-02	-----CASAGMSC TCAGCACCWNGGACAGCNC	

50



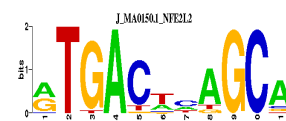
forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0283.1_CHA4	1.3852e-04	-CTCWGCCT NCTCCGCC-	
J_MA0065.2_PPARG_RXR	5.3273e-04	---AGGCWGAG--- NNRGGNCAAAGGKCA	

J_MA0150.1_NFE2L2 1.2400e-03

----CTCWGCCT
RTGACWNAGCA--



J_MA0340.1_MOT3 1.7696e-03

CTCWGCCT--
---TRCCTN

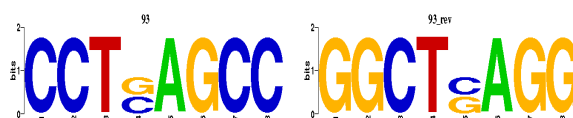


J_MA0062.1_GABPA 1.7837e-03

--AGGCWGAG
ACCGGAAGNS



93

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

J_MA0283.1_CHA4 4.6549e-04

CCTSAGCC
NCTCCGCC



J_MA0276.1_ASH1 1.4118e-03

CCTSAGCC--
CCYGATNYGG



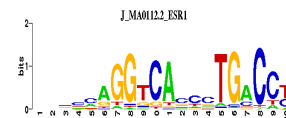
J_MA0332.1_MET28 2.2746e-03

CCTSAGCC
CCACAG--



J_MA0112.2_ESR1 4.4609e-03

-----CCTSAGCC
NNNNNAGGTCANNNTGACCY

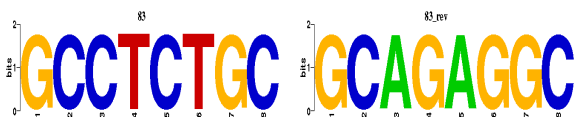


J_MA0150.1_NFE2L2 4.7712e-03

GGCTSAGG---
TGCTNWTGTCAY

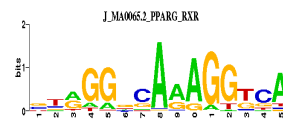


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*forward**reverse compliment**Name**E value**Alignment**Motif*

J_MA0065.2_PPARG_RXR 8.8631e-05

```
--GCCTCTGC-----
TGMCCTTTGNCCYNN
```



J_MA0146.1_Zfx 4.6889e-04

```
---GCCTCTGC---
NAGGCCNNGGCNNN
```



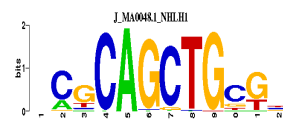
J_MA0364.1_REI1 1.0732e-03

```
GCCTCTGC
-CCCCTGN
```



J_MA0048.1_NHLH1 1.8102e-03

```
--GCAGAGGC--
NCGCAGCTGCGN
```



J_MA0081.1_SPIB 2.0345e-03

```
-GCCTCTGC
TTCKST--
```



68

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

J_MA0332.1_MET28 4.6780e-06

```
AGCCNCAG
--CCACAG
```



J_MA0334.1_MET32 4.8213e-05

```
CTGNGGCT
-TGTGGCN
```



J_MA0002.2_RUNX1 6.9134e-05

—AGCCNCAG—
NAACCACARNN



J_MA0285.1_CRZ1 7.5479e-05

CTGNGGCT---
--GNGGCTNNN

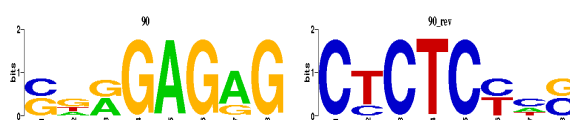


J_MA0335.1_MET4 2.8102e-04

AGCCNCAG—
--CCACAGNT



90

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

J_MA0079.2_SP1

1.0535e-03

—SNRGAGAG—
GGGGGNGGGG



J_MA0062.1_GABPA

1.1420e-03

CTCTCYNS—
SNCTTCCGGT



J_MA0140.1_Tal1_Gata

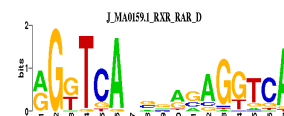
1.6974e-03

-----SNRGAGAG---
NNGNNNNNNNNAGATAAN



J_MA0159.1_RXR_RAR_D 4.3509e-03

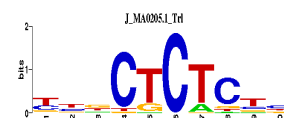
--CTCTCYNS-----
TGACCTNYNNNTGAMCY



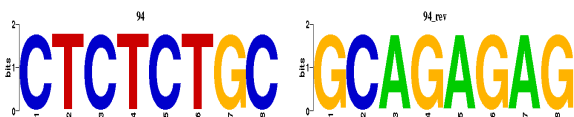
J_MA0205.1_Trl

5.4517e-03

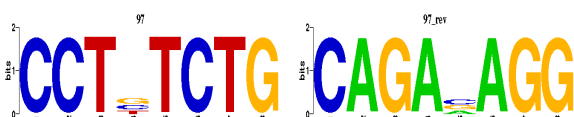
SNRGAGAG---
-NNGAGAGNNR



94

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0354.1_PDR8	3.1718e-03	GCAGAGAG NCGGAGAT	
J_MA0432.1_YNR063W	3.3119e-03	GCAGAGAG TCGGAGAT	
J_MA0205.1_Trl	3.5160e-03	GCAGAGAG--- -NNGAGAGNNR	
J_MA0287.1_CUP2	4.0331e-03	--GCAGAGAG- CAGCARAAWG	
J_MA0283.1_CHA4	5.2884e-03	CTCTCTGC- -NCTCCGCC	



97

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0159.1_RXR_RAR_D	2.8474e-04	---CCTNTCTG----- TGACCTNYYNNNTGAMCY	
J_MA0207.1_achi	4.5465e-04	CCTNTCTG -CTGTCA-	

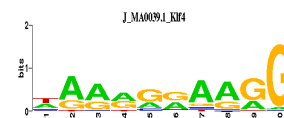
J_MA0227.1_hth

7.5886e-04

CCTNTCTG
-CTGTCA-

J_MA0039.1_Klf4

2.3756e-03

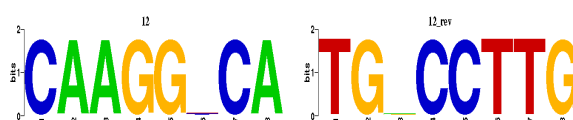
--CAGANAGG
NAARRRAAGG

J_MA0081.1_SPIB

7.4832e-03

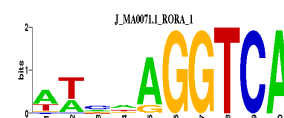
--CCTNTCTG
TTCKST---

12

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

J_MA0071.1_RORA_1

7.4039e-12

TGNCCTTG--
TGACCTNNWW

J_MA0141.1_Esrrb

1.0266e-11

TGNCCTTG----
TGACCTTGRNNN

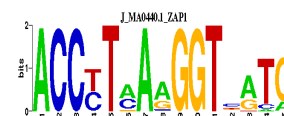
J_MA0160.1_NR4A2

6.5031e-10

-TGNCCTTG
GTGACCTT-

J_MA0440.1_ZAP1

1.7711e-07

--TGNCCTTG-----
CATNACCTTKARGGT

J_MA0115.1_NR1H2_RXR

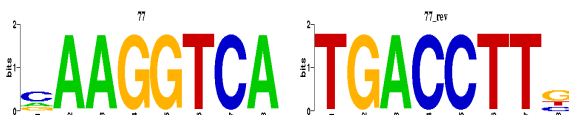
3.9693e-07

--TGNCCTTG-----
STTGACCTTTGACCTT

77

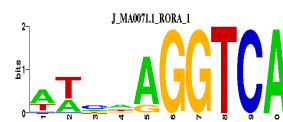
Stamp Results

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

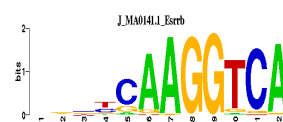
J_MA0071.1_RORA_1

6.3906e-12

TGACCTTN--
TGACCTNNWW

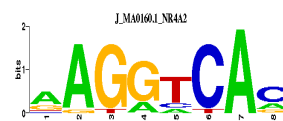
J_MA0141.1_Esrrb

1.2110e-11

TGACCTTN----
TGACCTTGRNNN

J_MA0160.1_NR4A2

7.2490e-10

-TGACCTTN
GTGACCTT-

J_MA0440.1_ZAP1

2.4207e-08

--TGACCTTN----
CATNACCTTKARGGT

J_MA0115.1_NR1H2_RXR

3.1185e-07

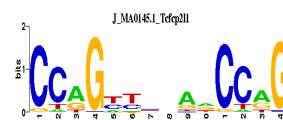
-----TGACCTTN
STTGACCTTTGACCTTT

44

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

J_MA0145.1_Tcfcp2l1

7.0539e-06

CTGGCYTG-----
CYGGNTNNRNCYGG

J_MA0381.1_SKN7

6.1853e-04

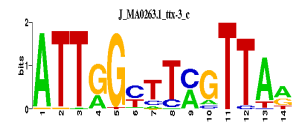
CTGGCYTG
NYGGCC--

Stamp Results

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J_MA0263.1_ttx-3_c 4.3641e-03

-----CARGCCAG--
YTAACKAARCCAAT



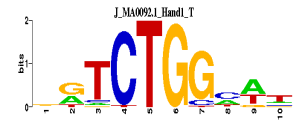
J_MA0161.1_NFIC 5.9708e-03

CARGCCAG
--NGCCAA

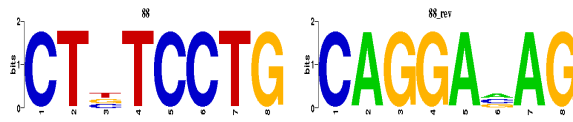


J_MA0092.1_Hand1_T 6.3353e-03

CARGCCAG---
-NWNCCAGAYN



88

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

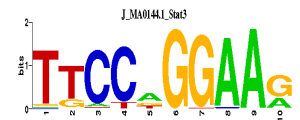
J_MA0156.1_FEV 2.3211e-06

CTNTCCTG
AYTTCCTG



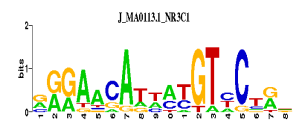
J_MA0144.1_Stat3 3.8688e-04

CTNTCCTG---
-CTTCCNGGAA



J_MA0113.1_NR3C1 1.2769e-03

-CAGGANAG-----
NYNGNACRKNNTGTTCYN



J_MA0207.1_achi 1.4796e-03

CTNTCCTG
CTGTCA--



J_MA0026.1_Eip74EF 1.6759e-03

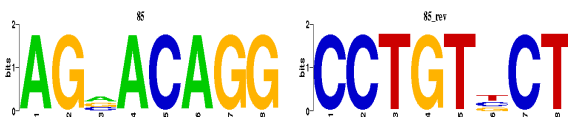
CTNTCCTG
-YTTCCGG



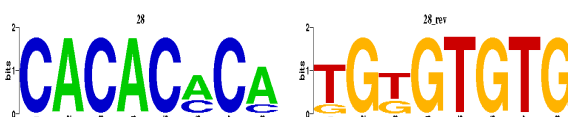
85

Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0371.1_ROX1	9.9021e-04	-AGNACAGG--- GAGAACAATNGR	
J_MA0261.1_lin-14	1.2474e-03	CCTGTNCT -NYGTTC-	
J_MA0207.1_achi	1.3412e-03	AGNACAGG -TGACAG-	
J_MA00445.1_D	1.7311e-03	AGNACAGG--- ANAACAATRGN	
J_MA0112.2_ESR1	1.7679e-03	AGNACAGG----- RGGTCANNNTGACCTNNNNN	



28

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0009.1_T	7.8901e-05	--CACACACA- TTCACACCTAG	
J_MA0270.1_AFT2	3.4691e-04	CACACACA NACACCCN	

J_MA0450.1_hkb 3.5447e-04

—CACACACA
TCACGCCCM



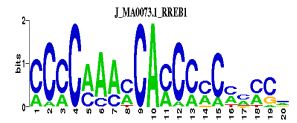
J_MA0039.2_Klf4 4.5067e-04

--CACACACA
GCCMCRCCCN

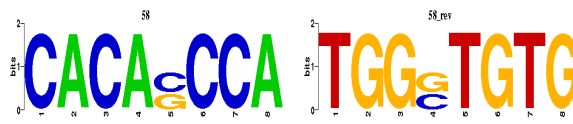


J_MA0073.1_RREB1 9.3327e-04

----TGTGTGTG-----
NGKKKGKGGGTGKTTTGGGG



58

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

J_MA0009.1_T 2.3616e-06

--CACASCCA--
TTCACACCTAG



J_MA0270.1_AFT2 1.5656e-05

TGGSTGTG
NGGGTGTN



J_MA0039.2_Klf4 2.3510e-05

--CACASCCA
GCCMCRCCCN



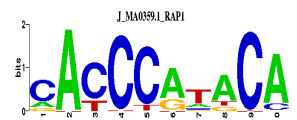
J_MA0450.1_hkb 7.3161e-05

—CACASCCA
TCACGCCCM

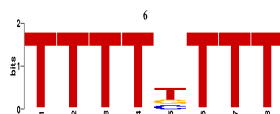


J_MA0359.1_RAP1 2.7591e-04

----TGGSTGTG
TGTATGGGTG--



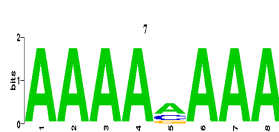
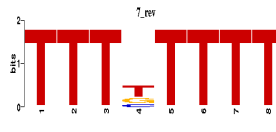
6



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	8.5418e-08	TTTTNTTT- TTTCCTTTT	
J_MA0049.1_hb	7.5183e-06	-TTTTNTTT- NTTTTTNYKS	
J_MA0120.1_id1	1.0504e-04	----AAANAAAA CGNNANNRRMNA	
J_MA0041.1_Foxd3	1.2261e-04	AAANAAAA---- AAANAAACAWTN	
J_MA0010.1_br_Z1	3.9458e-04	-TTTTNTTT----- NWYTTGTYTATNAN	

7

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	2.6497e-08	TTTKTTTT- TTTCCTTTT	
J_MA0049.1_hb	6.4384e-06	-TTTKTTTT- NTTTTTNYKS	

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J_MA0041.1_Foxd3 4.9899e-05

-----TTTKTTTT
NAWTGTTTNTTT-



J_MA0013.1_br_Z4 2.9334e-04

TTTKTTTT---
WTWNTTTACTA



J_MA00445.1_D 3.6642e-04

AAAAMAAA---
ANAACAATRGN



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