

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:      ----AACAAWGG-----
1:      ----AACAAAGN-----
2:      ----ACAAARGA-----
3:      ----ACAAAGGC-----
4:      ---AACAAAAG-----
5:      ---ATGCAAAT-----
6:      --AGAACAATRG-----
7:      ---GGGGGGGG-----
8:      -----AAANAAAA----
9:      ---NGACAATGG-----
10:     ----GGGRGRGG-----
11:     ----GGGARGGG-----
12:     ---ANAMARAG-----
13:     GCATGACAAW-----
14:     -----AAAGGAAA----
15:     ----CANAAACAA-----
16:     -----CAAARGCC-----
17:     -----ACACACACA---
18:     -----AAAGAAAG----
19:     -----CAGCAGGAR--
20:     -CNCAGCAGRG-----
21:     ----GACAAAGA-----
22:     -----CAAGGTCAS---
```

Stamp Results

11/21/15

```

23: -----AAARGRAA-----
24: -----CAAAGSCT-----
25: -----AAAARAAA-----
26: ----NACAATGGRG-----
27: ----ACAAWGAA-----
28: ----CCWGCAGG-----
29: -RGCAGCAGRG-----
30: ----MAMANARA-----
31: ---ANANANA-----
32: --MCAGGAAATG-----
33: -----SCAGCAGCTG--
34: -----AAWGGCTG----
35: -----AGRGRGAG----
36: -----CAMARRRGA----
37: ----CCMCACCC-----
38: --CTCAGGAAG-----
39: -----AAAGRGAA----
40: -----ANAGGAAGNA--
41: -----AAGRACAA---
42: -GSAGGCAGAG-----
43: ----AMAAARARA-----
44: ----AMAAAGGG-----
45: -----AGGAGGAGC-
46: ----RGRRRRGG-----
47: --GARACAAA-----
48: ----ACAAAGCA-----
49: ----AMAARGGR-----
50: -----AAAGANAA----
51: ----MAMARAGA-----
52: ---GGGWGGAG-----
53: -----AGGCTGGGCT
54: -----AAGASAAA---
55: -----AARGGAAG----
56: -----AGGCAGCTGS
57: -----AAAAGMCA-----
58: ----AGGAAGGRA-----
59: --AATGGGAAG-----
60: ---AGAGRAAG-----
61: ----AMAMARRG-----
62: ----AGGGNAGG-----
63: ---SNGGRGRG-----
64: -CMCAGGAANG-----
65: CAGGCAGGCAG-----

```

Stamp Results

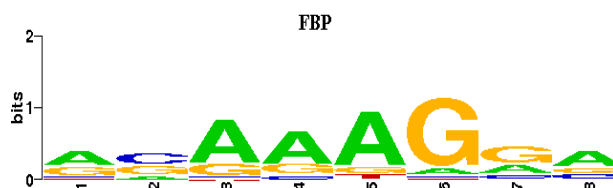
11/21/15

```

66: -----GAAAGRAA-----
67: -----RAARRRAA-----
68: ---AGARARAG-----
69: -----GGARGCAG-----
70: -----AGAGGNAG-----
71: -----GGGAASAA-----
72: ----TGGGARGA-----
73: -----CANAGCAG-----
74: ----CTGAAAGGAR-----
75: ---GGASAAAG-----
76: -----CAGGAGGCWG-
77: ----RARAARGR-----
78: -----AGNAGCAG-----
79: ---SCTGGGAGGR-----
80: -----CAGCWGGG---
81: -----CAGRGCAG-----
82: ----WGCAGAGAA-----
83: -SCCTGGGAAR-----
84: ----AGGRAGGG-----
85: -WGGGAGGARG-----
86: -----CARAGGAG-----
87: ----AGCCMAGG-----
88: -----AAAGNACA-----
89: ---CTGCWGAG-----
90: ----STGAATGGG-----
91: -----AGGCTSCA---
92: -----AMARARAA-----
93: ---AGAGAGAG-----
94: -----AARGGAGA-----
95: -----AAAGCCAGGM---
96: -CATTTCAAAG-----
97: ---ACAATGC-----
98: -----AGGGCWGG---
99: ---CTGGRAAG-----

```

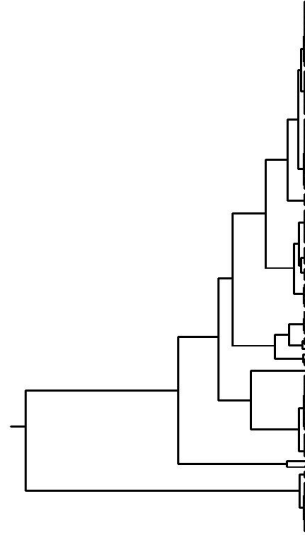
Familial Profile:
(click for matrix)



Motif Tree

Tree (drawn by **Phylip**)

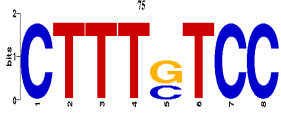
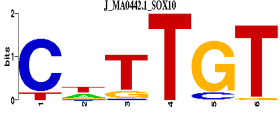
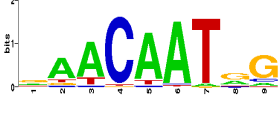
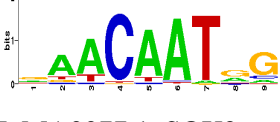
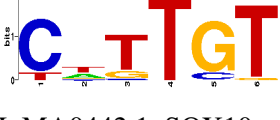
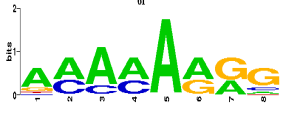
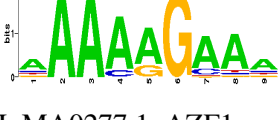
[Click here for Newick-format tree](#) (viewable with **MEGA**)

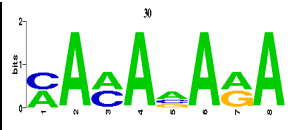
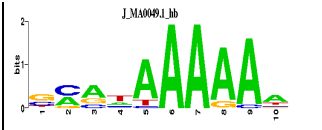
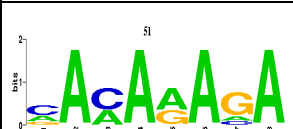
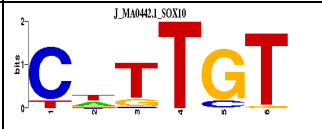
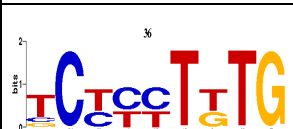
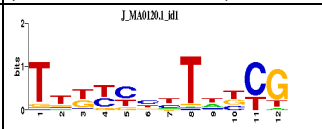
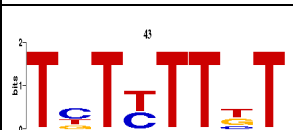
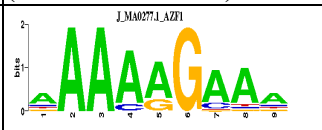
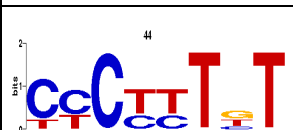
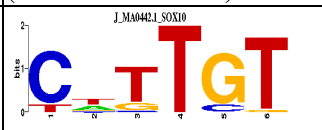
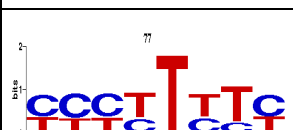
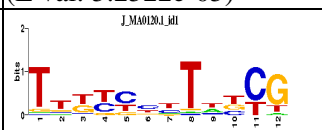
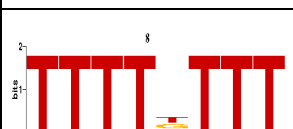


Input Motif

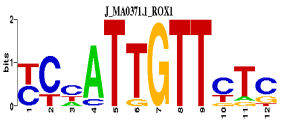
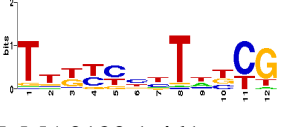
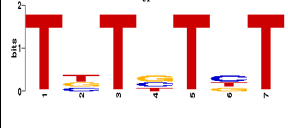
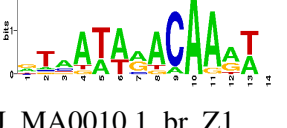
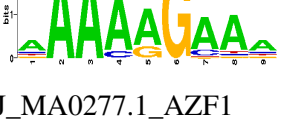
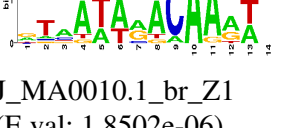
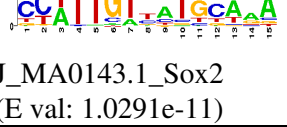
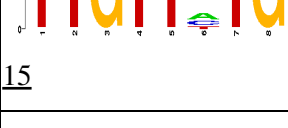
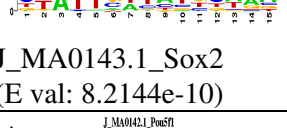
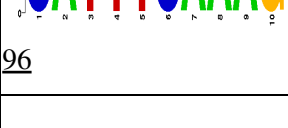
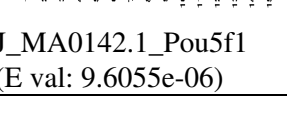
Best match in
user-defined

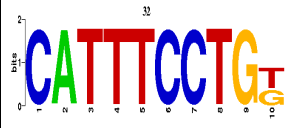
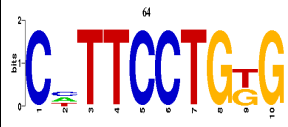
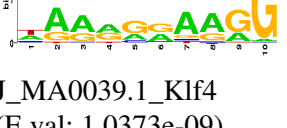
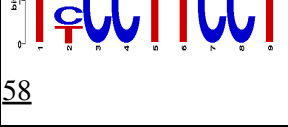
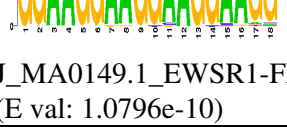
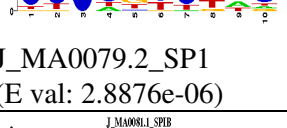
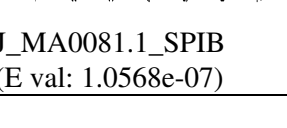
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1	J_MA0143.1_Sox2 (E val: 1.8392e-08)
3	J_MA0442.1_SOX10 (E val: 6.4631e-09)
2	J_MA0370.1_RME1 (E val: 1.6604e-07)
27	J_MA0442.1_SOX10 (E val: 5.8855e-09)
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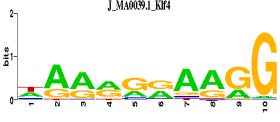
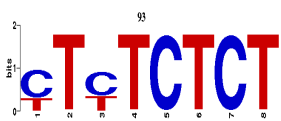
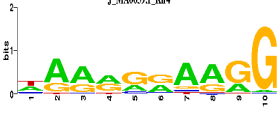
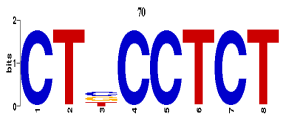
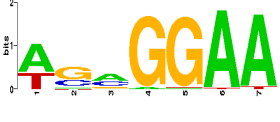
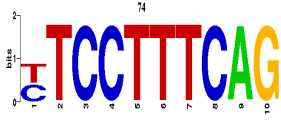
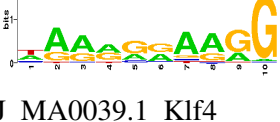
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 4	 J_MA00445.1_D (E val: 3.0515e-08)
 6	 J_MA00445.1_D (E val: 8.2157e-15)
 26	 J_MA0371.1_ROX1 (E val: 6.2034e-11)
 97	 J_MA0077.1_SOX9 (E val: 9.9389e-09)
 9	 J_MA0077.1_SOX9 (E val: 9.5688e-08)
 12	 J_MA0442.1_SOX10 (E val: 1.6033e-05)
 61	 J_MA0277.1_AZF1 (E val: 4.9806e-04)

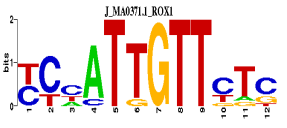
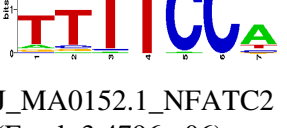
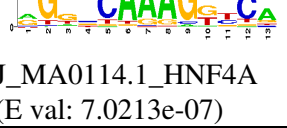
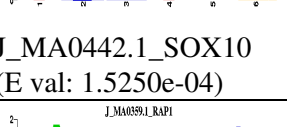
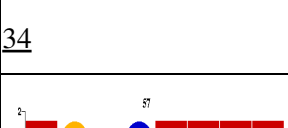
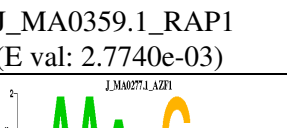
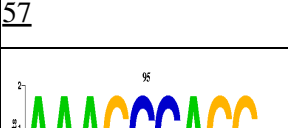
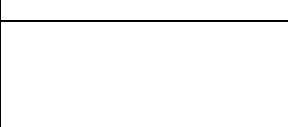
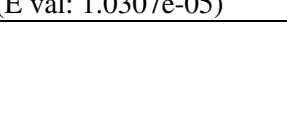
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 51	 J_MA0442.1_SOX10 (E val: 5.8903e-06)
 36	 J_MA0120.1_id1 (E val: 5.2525e-05)
 43	 J_MA0277.1_AZF1 (E val: 2.2053e-06)
 44	 J_MA0442.1_SOX10 (E val: 5.8830e-05)
 49	 J_MA0277.1_AZF1 (E val: 5.2522e-05)
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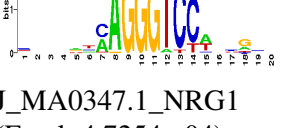
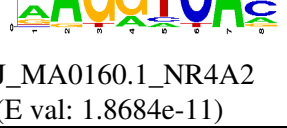
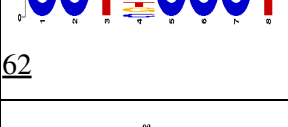
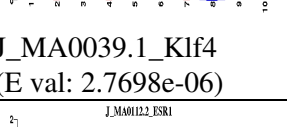
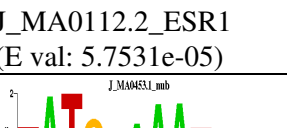
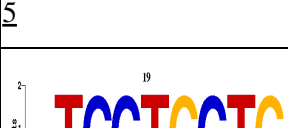
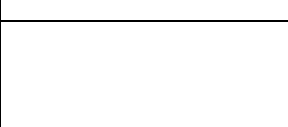
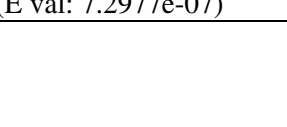
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92	J_MA0277.1_AZF1
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14	J_MA0277.1_AZF1
14	J_MA0277.1_AZF1 (E val: 1.6754e-10)
25	J_MA0277.1_AZF1
25	J_MA0277.1_AZF1 (E val: 1.4121e-11)
23	J_MA0277.1_AZF1
23	J_MA0277.1_AZF1 (E val: 2.7881e-10)
18	J_MA0039.1_Klf4
18	J_MA0039.1_Klf4 (E val: 2.9098e-10)
66	J_MA0277.1_AZF1
66	J_MA0277.1_AZF1 (E val: 3.8365e-07)
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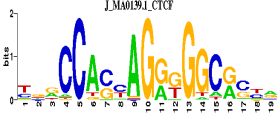
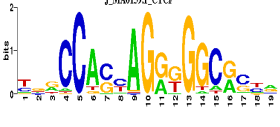
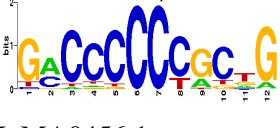
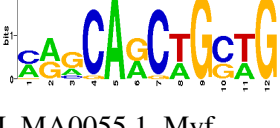
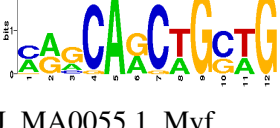
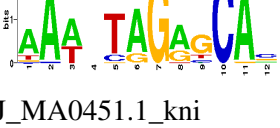
 41	 J_MA0371.1_ROX1 (E val: 4.8966e-07)
 88	 J_MA0120.1_id1 (E val: 1.2844e-05)
 31	 J_MA0010.1_br_Z1 (E val: 8.7933e-06)
 54	 J_MA0277.1_AZF1 (E val: 8.3503e-06)
 47	 J_MA0010.1_br_Z1 (E val: 1.8502e-06)
 13	 J_MA0143.1_Sox2 (E val: 1.0291e-11)
 15	 J_MA0143.1_Sox2 (E val: 8.2144e-10)
 96	 J_MA0142.1_Pou5f1 (E val: 9.6055e-06)

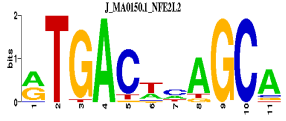
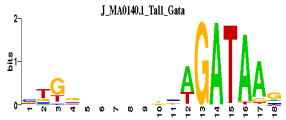
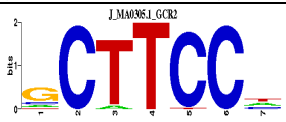
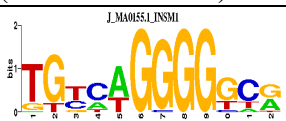
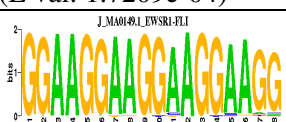
 32	 J_MA0156.1_FEV (E val: 3.4163e-11)
 64	 J_MA0156.1_FEV (E val: 5.0549e-07)
 38	 J_MA0156.1_FEV (E val: 2.2758e-07)
 40	 J_MA0039.1_Klf4 (E val: 8.7158e-08)
 55	 J_MA0039.1_Klf4 (E val: 1.0373e-09)
 58	 J_MA0149.1_EWSR1-FLI (E val: 1.0796e-10)
 84	 J_MA0079.2_SPI1 (E val: 2.8876e-06)
 60	 J_MA0081.1_SPIB (E val: 1.0568e-07)

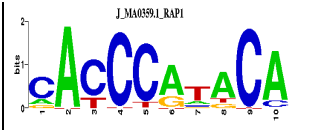
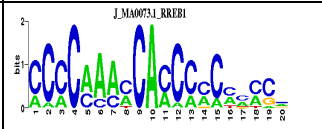
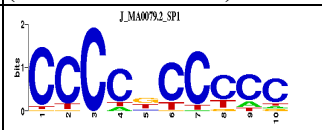
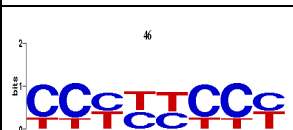
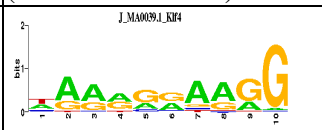
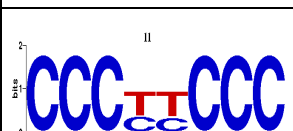
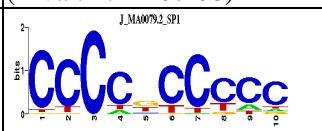
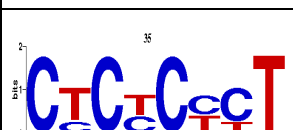
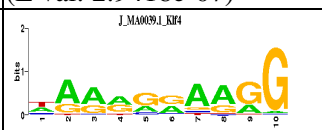
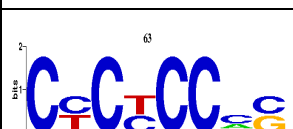
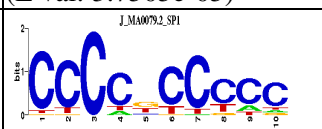
 68	 J_MA0039.1_Klf4 (E val: 2.3234e-06)
 93	 J_MA0039.1_Klf4 (E val: 4.1256e-04)
 70	 J_MA0081.1_SPIB (E val: 6.0047e-07)
 74	 J_MA0370.1_RME1 (E val: 1.8842e-06)
 86	 J_MA0370.1_RME1 (E val: 2.3863e-07)
 94	 J_MA0370.1_RME1 (E val: 1.4908e-04)
 39	 J_MA0277.1_AZF1 (E val: 3.9920e-07)
 59	 J_MA0039.1_Klf4 (E val: 5.8797e-05)

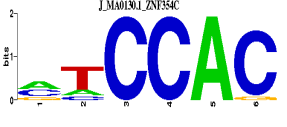
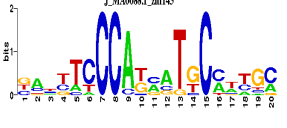
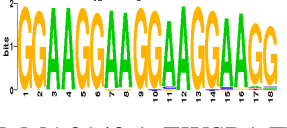
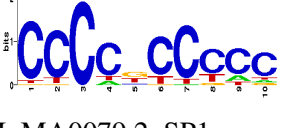
 <u>71</u>	 J_MA0371.1_ROX1 (E val: 2.3902e-05)
 <u>83</u>	 J_MA0344.1_NHP10 (E val: 5.5696e-06)
 <u>99</u>	 J_MA0152.1_NFATC2 (E val: 3.4796e-06)
 <u>16</u>	 J_MA0114.1_HNF4A (E val: 7.0213e-07)
 <u>24</u>	 J_MA0442.1_SOX10 (E val: 1.5250e-04)
 <u>34</u>	 J_MA0359.1_RAP1 (E val: 2.7740e-03)
 <u>57</u>	 J_MA0277.1_AZF1 (E val: 3.4349e-07)
 <u>95</u>	 J_MA0053.1_MNB1A (E val: 1.0307e-05)

 53	 J_MA0079.1_SP1 (E val: 6.1064e-04)
 87	 J_MA0368.1_RIM101 (E val: 3.1311e-06)
 91	 J_MA0347.1_NRG1 (E val: 4.7254e-04)
 22	 J_MA0160.1_NR4A2 (E val: 1.8684e-11)
 62	 J_MA0039.1_Klf4 (E val: 2.7698e-06)
 98	 J_MA0112.2_ESR1 (E val: 5.7531e-05)
 5	 J_MA0453.1_nub (E val: 3.8533e-11)
 19	 J_MA0287.1_CUP2 (E val: 7.2977e-07)

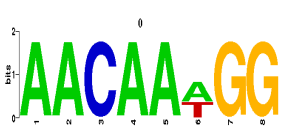
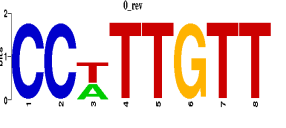
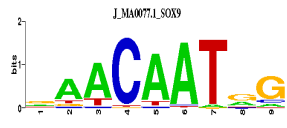
 28	 J_MA0139.1_CTCF (E val: 5.9481e-06)
 20	 J_MA0139.1_CTCF (E val: 3.5276e-05)
 80	 J_MA0456.1_opa (E val: 1.6848e-06)
 29	 J_MA0055.1_Myf (E val: 8.7096e-06)
 33	 J_MA0055.1_Myf (E val: 1.7319e-10)
 78	 J_MA0055.1_Myf (E val: 1.5811e-05)
 73	 J_MA0053.1_MNB1A (E val: 1.5950e-04)
 81	 J_MA0451.1_kni (E val: 1.2718e-04)

 82	 J_MA0287.1_CUP2 (E val: 8.5506e-05)
 89	 J_MA0150.1_NFE2L2 (E val: 1.3094e-06)
 42	 J_MA0140.1_Tal1_Gata (E val: 2.1664e-04)
 69	 J_MA0305.1_GCR2 (E val: 7.5956e-06)
 76	 J_MA0155.1_INSM1 (E val: 1.7209e-04)
 65	 J_MA0149.1_EWSR1-FLI1 (E val: 4.9622e-05)
 56	 J_MA0055.1_Myf (E val: 4.2451e-10)
 17	 J_MA0359.1_RAP1 (E val: 2.7183e-05)

 <u>90</u>	 J_MA0359.1_RAP1 (E val: 1.3831e-06)
 <u>7</u>	 J_MA0073.1_RREB1 (E val: 1.6571e-07)
 <u>37</u>	 J_MA0039.2_Klf4 (E val: 1.6784e-10)
 <u>10</u>	 J_MA0079.2_SP1 (E val: 1.0002e-07)
 <u>46</u>	 J_MA0039.1_Klf4 (E val: 2.2410e-08)
 <u>11</u>	 J_MA0079.2_SP1 (E val: 2.9418e-07)
 <u>35</u>	 J_MA0039.1_Klf4 (E val: 3.7505e-05)
 <u>63</u>	 J_MA0079.2_SP1 (E val: 3.6552e-05)

 45	 J_MA0283.1_CHA4 (E val: 2.3496e-04)
 52	 J_MA0130.1_ZNF354C (E val: 3.7058e-05)
 72	 J_MA0088.1_znf143 (E val: 4.9665e-04)
 85	 J_MA0149.1_EWSR1-FLI1 (E val: 2.1072e-06)
 79	 J_MA0079.2_SP1 (E val: 2.1269e-04)

Motif Similarity Matches

0			
	<i>forward</i>		<i>reverse compliment</i>
Name	E value	Alignment	Motif
J_MA0077.1_SOX9	1.4551e-10	CCWTTGTT- CYATTGTTN	

Stamp Results

11/21/15

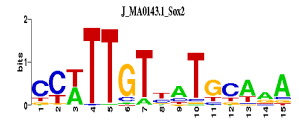
J_MA00445.1_D 2.3368e-10

--AACAAWGG--
ANAACAATRGN



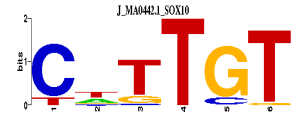
J_MA0143.1_Sox2 3.0835e-10

-----AACAAWGG
TNTGCATNACAAWGG



J_MA0442.1_SOX10 5.9151e-09

AACAAWGG
-ACAAWG-



J_MA0371.1_ROX1 1.7675e-08

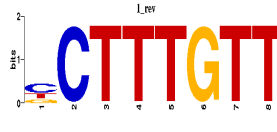
---AACAAWGG-
GAGAACAATNGR



1



forward



reverse compliment

Name

E value

Alignment

Motif

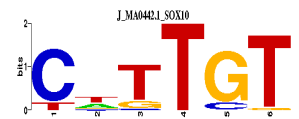
J_MA0143.1_Sox2 1.8392e-08

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J_MA0442.1_SOX10 7.4019e-08

AACAAAGN
-ACAAWG-



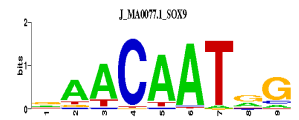
J_MA00445.1_D 1.6634e-07

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ANAACAATRGN



J_MA0077.1_SOX9 2.5717e-07

NCTTTGTT-
CYATTGTTN

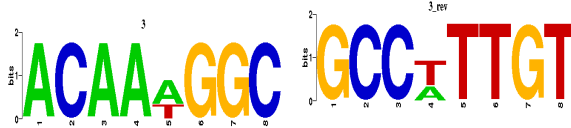


J_MA0371.1_ROX1 6.3450e-06

---AACAAAGN-
GAGAACAATNGR



3

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0442.1_SOX10	6.4631e-09	ACAAAGGC ACAAWG--	
J_MA0143.1_Sox2	5.8618e-07	-----ACAAAGGC TNTGCATNACAAWGG-	
J_MA00445.1_D	1.7732e-06	---ACAAAGGC ANAACAATRGN	
J_MA0077.1_SOX9	1.9879e-06	GCCTTTGT-- -CYATTGTTN	
J_MA0371.1_ROX1	5.9605e-05	----ACAAAGGC GAGAACAATNGR	

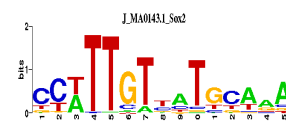
2

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0370.1_RME1	1.6604e-07	-TCYTTTGT- TNCCTTTNNA	
J_MA0442.1_SOX10	2.0445e-07	ACAAARGA ACAAWG--	

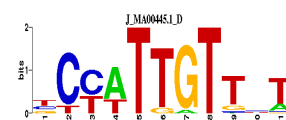
J_MA0143.1_Sox2 6.2077e-06

-----ACAAARGA
TNTGCATNACAAWGG-



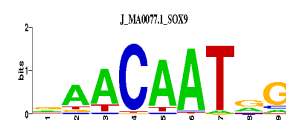
J_MA00445.1_D 1.3478e-05

---ACAAARGA
ANAACAATRGN



J_MA0077.1_SOX9 3.9417e-05

TCYTTTGT--
-CYATTGTTN



27

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

J_MA0442.1_SOX10 5.8855e-09

ACAAWGAA
ACAAWG--



J_MA0277.1_AZF1 1.0002e-06

-TTCWTTGT
TTTCTTTT



J_MA0192.1_Hmx 1.7329e-04

ACAAWGAA
-CAATTAA



J_MA0171.1_CG11085 1.7452e-04

ACAAWGAA
-CAATTAA

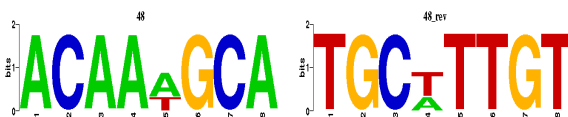


J_MA0143.1_Sox2 2.3229e-04

TTCWTTGT-----
-CCWTTGTNATGCANA



48

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0442.1_SOX10	6.7886e-09	ACAAAGCA ACAAWG--	
J_MA0053.1_MNB1A	1.1084e-05	TGCTTTGT -NCTTT--	
J_MA0064.1_PBF	1.7131e-05	TGCTTTGT -RCTTT--	
J_MA0150.1_NFE2L2	2.4827e-05	TGCTTTGT--- TGCTNWTGTCAY	
J_MA0020.1_Dof2	5.6417e-05	TGCTTTGT NGCTTT--	



21

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0442.1_SOX10	7.4019e-08	GACAAAGA -ACAAWG-	
J_MA0277.1_AZF1	6.7248e-05	--TCTTTGTC TTTCTTTT-	

Stamp Results

11/21/15

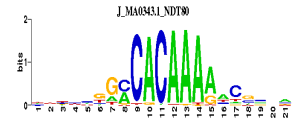
J_MA0078.1_Sox17 1.7108e-04

-TCTTTGTC
NNYATTGTS



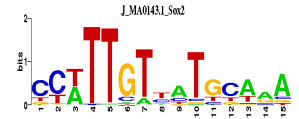
J_MA0343.1_NDT80 6.5380e-04

-----TCTTTGTC-----
NNNNGNTTTTGTGKCNNNNNN

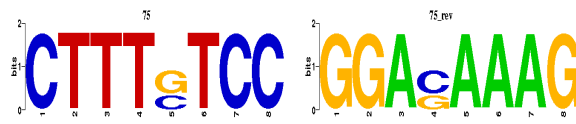


J_MA0143.1_Sox2 8.3777e-04

TCTTTGTC-----
CCWTTGTNATGCANA



75



forward

reverse compliment

Name

E value

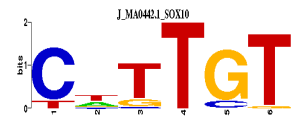
Alignment

Motif

J_MA0442.1_SOX10

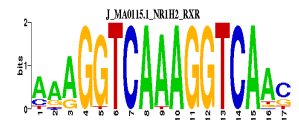
2.0875e-07

GGASAAAG
--ACAAWG



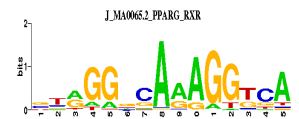
J_MA0115.1_NR1H2_RXR 1.5631e-05

-----CTTTSTCC---
STTGACCTTTGACCTTT



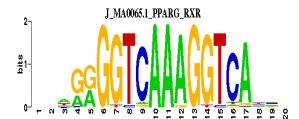
J_MA0065.2_PPARG_RXR 1.6480e-05

----CTTTSTCC---
TGMCCCTTGNCCYNN



J_MA0065.1_PPARG_RXR 3.1360e-05

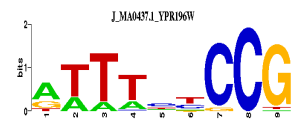
-----CTTTSTCC-----
NNNTGACCTTTGACCYCINN



J_MA0437.1_YPR196W

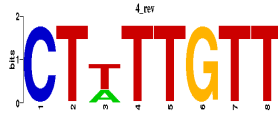
7.3489e-05

-GGASAAAG
CGGRNAAAT



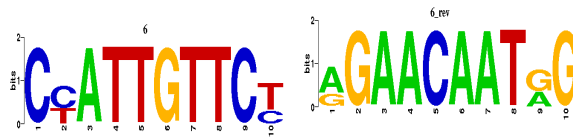
4



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA00445.1_D	3.0515e-08	--AACAAAAG-- ANAACAATRGN	
J_MA0077.1_SOX9	2.2148e-07	CTTTTGTT-- CYATTGTTN	
J_MA0143.1_Sox2	8.8833e-07	-----AACAAAAG TNTGCATNACAAWGG	
J_MA0442.1_SOX10	2.6998e-05	AACAAAAG -ACAAWG-	
J_MA0371.1_ROX1	3.2015e-05	---AACAAAAG-- GAGAACAATNGR	

6

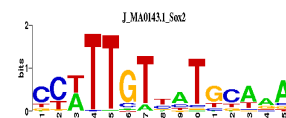
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA00445.1_D	8.2157e-15	AGAACAATRG-- ANAACAATRGN	
J_MA0371.1_ROX1	1.4766e-14	-AGAACAATRG-- GAGAACAATNGR	

J_MA0077.1_SOX9 3.4127e-11

CYATTGTTCT
CYATTGTTN-

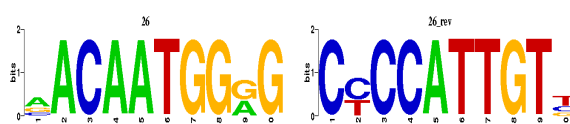
J_MA0143.1_Sox2 2.6199e-08

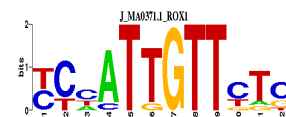
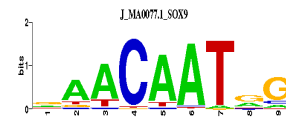
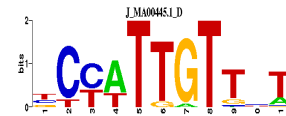
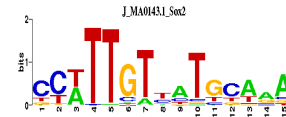
-----AGAACAATRG
TNTGCATNACAAWGG

J_MA0087.1_Sox5 1.2059e-06

CYATTGTTCT
--ATTGTTN-

26

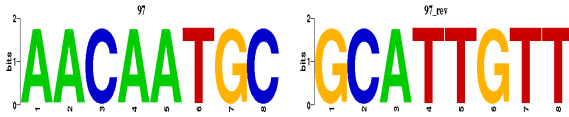
*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0371.1_ROX1	6.2034e-11	---NACAATGGRG GAGAACAATNGR-	
J_MA0077.1_SOX9	7.5078e-10	-NACAATGGRG NAACAATRG--	
J_MA00445.1_D	7.2316e-08	CYCCATTGTN-- -NCYATTGTTNT	
J_MA0143.1_Sox2	2.4357e-06	-----NACAATGGRG TNTGCATNACAAWGG--	
J_MA0087.1_Sox5	4.5028e-06	-NACAATGGRG NAACAAT----	

97

Stamp Results

11/21/15

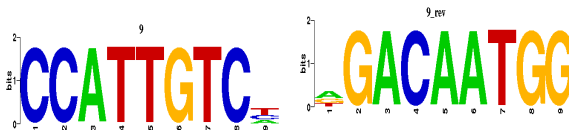


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0077.1_SOX9	9.9389e-09	GCATTGTT- CYATTGTTN	
J_MA0087.1_Sox5	1.4999e-07	GCATTGTT- --ATTGTTN	
J_MA0371.1_ROX1	2.1793e-07	---AACCAATGC- GAGAACAATNGR	
J_MA00445.1_D	3.5204e-07	--AACCAATGC- ANAACAATRGN	
J_MA0442.1_SOX10	1.1631e-06	AACCAATGC -ACAAG-	

9



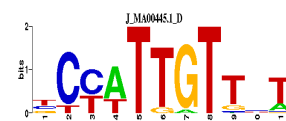
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0077.1_SOX9	9.5688e-08	CCATTGTCN CYATTGTTN	
J_MA0078.1_Sox17	1.8313e-07	NGACAATGG- -SACAATRRN	

J_MA00445.1_D 1.3936e-06

—CCATTGTCN—
NCYATTGTTNT



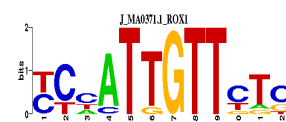
J_MA0442.1_SOX10 2.9344e-06

NGACAATGG
—ACAAWG—

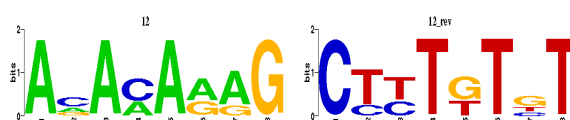


J_MA0371.1_ROX1 3.9791e-06

—NGACAATGG—
GAGAACAATNGR



12

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

J_MA0442.1_SOX10 1.6033e-05

ANAMARAG
—ACAAWG



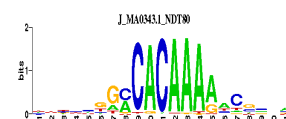
J_MA0327.1_MATA1 1.6710e-04

CTYTKTNT
—ATTGTGY



J_MA0343.1_NDT80 6.5575e-04

----CTYTKTNT-----
NNNNGNTTTTGTKCNNNNNN



J_MA0010.1_br_Z1 7.0378e-04

—CTYTKTNT-----
NWYTTGTYTATNAN



J_MA0277.1_AZF1 1.1459e-03

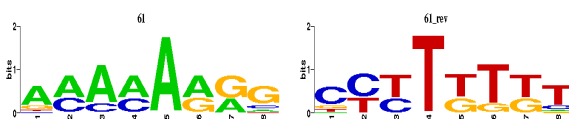
---CTYTKTNT
TTTCTTTT---



61

Stamp Results

11/21/15

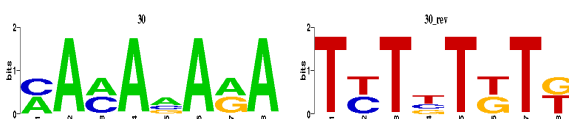


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	4.9806e-04	--CYYTKTKT TTTCTTTT--	
J_MA0442.1_SOX10	1.1715e-03	AMAMARRG ACAAWG--	
J_MA0039.1_Klf4	1.5407e-03	CYYTKTKT-- CCTTYYYYTN	
J_MA00445.1_D	1.6376e-03	--AMAMARRG- ANAACAATRGN	
J_MA0041.1_Foxd3	2.4440e-03	----CYYTKTKT NAWTGTTTNTTT	

30



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0049.1_hb	4.8277e-06	-MAMANARA- SMRNAAAAAN	
J_MA0343.1_NDT80	5.5713e-06	-----TYTNTKTK----- NNNNGNTTTTGTGKCNNNNNN	

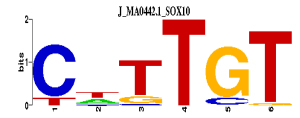
J_MA0277.1_AZF1 8.2409e-06

--TYTNTKTK
TTTCTTTTT--



J_MA0442.1_SOX10 8.4399e-05

MAMANARA
-ACAAWG-

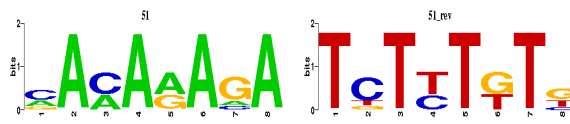


J_MA0287.1_CUP2 1.6415e-03

--TYTNTKTK-
CWTTTYTGCTG

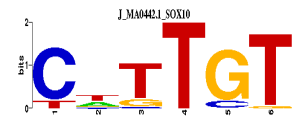


51

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

J_MA0442.1_SOX10 5.8903e-06

MAMARAGA
-ACAAWG-



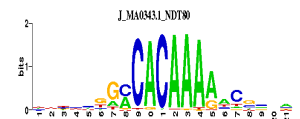
J_MA0277.1_AZF1 6.1853e-06

--TCTYTKTK
TTTCTTTTT--



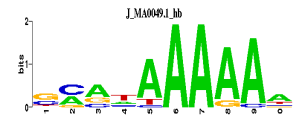
J_MA0343.1_NDT80 3.2579e-05

-----TCTYTKTK-----
NNNNGNTTTTGTKNNNNNN



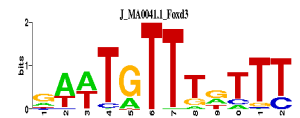
J_MA0049.1_hb 5.3631e-04

-TCTYTKTK-
NTTTTNYKS

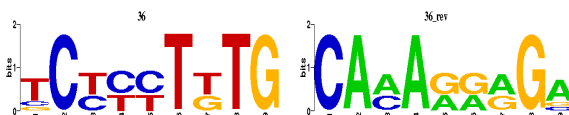


J_MA0041.1_Foxd3 3.3862e-03

---TCTYTKTK-
NAWTGTTTNTTT

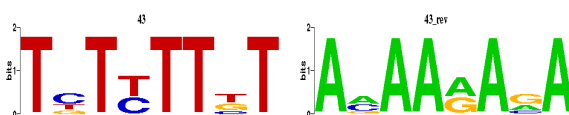


36

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0120.1_id1	5.2525e-05	CAMARRRGA--- CGNNANNRRMNA	
J_MA0370.1_RME1	2.2756e-04	TCYYYTKTG-- -TNCCTTTNNA	
J_MA0277.1_AZF1	5.3497e-04	TCYYYTKTG TTTCTTTTT	
J_MA0442.1_SOX10	1.4836e-03	-CAMARRRGA ACAAGW----	
J_MA0154.1_EBF1	1.8487e-03	TCYYYTKTG- TCCCTNGGNG	

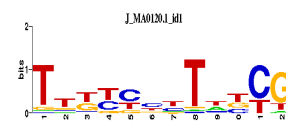
43

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	2.2053e-06	TYTYTTKT- TTTCTTTTT	
J_MA0287.1_CUP2	2.7962e-04	TYTYTTKT---- -CWTTYTGCTG	

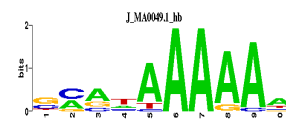
J_MA0120.1_id1 4.4918e-04

—AMAARARA—
CGNNANNRRMNA



J_MA0049.1_hb 2.3838e-03

—TYTYTTKT—
NTTTTNYKS

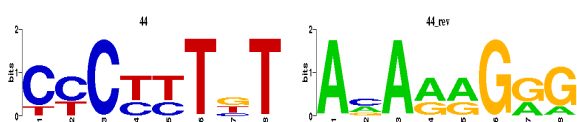


J_MA0010.1_br_Z1 2.5357e-03

----TYTYTTKT--
NWYTTGTYTATNAN

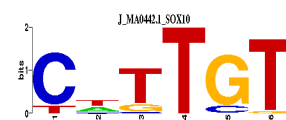


44

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

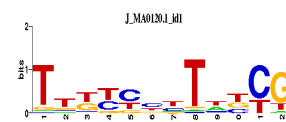
J_MA0442.1_SOX10 5.8830e-05

AMAAAGGG
ACAAWG--



J_MA0120.1_id1 1.5657e-04

---CCCTTTKT--
TNKYNNNTNCG



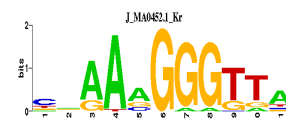
J_MA0277.1_AZF1 3.2732e-04

—CCCTTTKT
TTTCTTTT



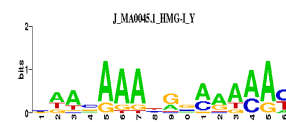
J_MA0452.1_Kr 3.7577e-04

AMAAAGGG---
NNAARGGGTTA



J_MA0045.1_HMG-I_Y 5.6286e-04

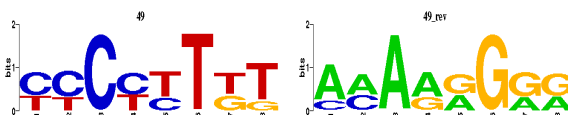
-----CCCTTTKT--
RTTTYKNYNTTNTNN



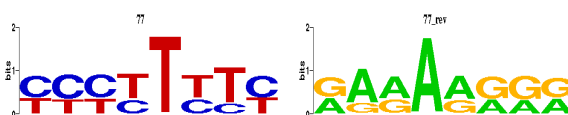
49

Stamp Results

11/21/15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	5.2522e-05	AMAARGGR- AAAAAGAAA	
J_MA0120.1_id1	9.4296e-05	-AMAARGGR--- CGNNANNRRMNA	
J_MA0341.1_MSN2	2.0555e-04	YCCYTTKT CCCCT---	
J_MA0342.1_MSN4	3.0968e-04	YCCYTTKT CCCCT---	
J_MA0366.1_RGM1	4.2604e-04	YCCYTTKT CCCCT---	



77

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0120.1_id1	2.5621e-08	-RARAARGR--- CGNNANNRRMNA	
J_MA0039.1_Klf4	1.2190e-05	YCYTTYTY-- CCTTYYYTTN	

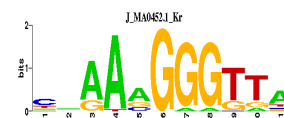
J_MA0277.1_AZF1 1.5858e-04

—YCYTTYTY
TTTCTTTT



J_MA0452.1_Kr 1.5010e-03

---YCYTTYTY
TAACCCYTTNN

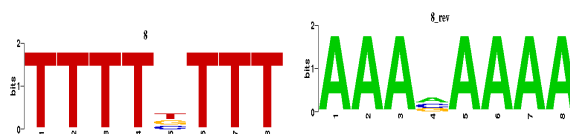


J_MA0287.1_CUP2 4.5452e-03

YCYTTYTY---
-CWTTYTGCTG



8

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

J_MA0277.1_AZF1 1.0860e-06

TTTTNTTT-
TTTCTTTT



J_MA0120.1_id1 4.3086e-05

TTTTNTTT---
TNKYNNNTNCG



J_MA0010.1_br_Z1 4.4321e-05

-TTTTNTTT----
NWYTTGTYTATNAN



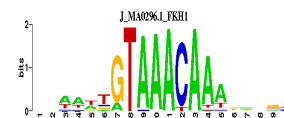
J_MA0013.1_br_Z4 6.2530e-05

TTTTNTTT---
-WTWNITTACTA

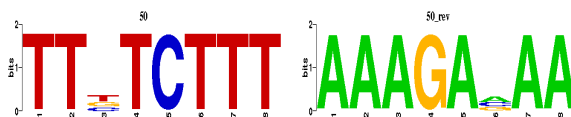


J_MA0296.1_FKH1 9.1131e-05

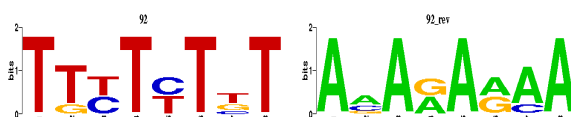
----TTTTNTTT-----
NNNNNTTTGTTTACANNWN



50

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	7.9470e-08	TTNTCTTT-- -TTTCTTTTT	
J_MA0120.1_id1	4.4128e-06	----AAAGANAA CGNNANNRRMNA	
J_MA0459.1_tll	3.0584e-05	-TTNTCTTT- KTTGACTTTT	
J_MA0010.1_br_Z1	1.6074e-04	---TTNTCTTT--- NWYTTGTYTATNAN	
J_MA0370.1_RME1	1.7998e-04	TTNTCTTT--- -TNCCTTTNNA	

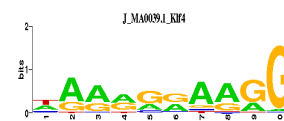


92

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	1.3779e-08	-TTYTYTKT TTTCTTTTT	
J_MA0120.1_id1	1.9670e-05	---AMARARAA- CGNNANNRRMNA	

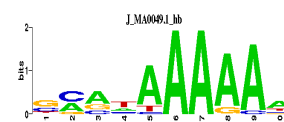
J_MA0039.1_Klf4 2.5929e-04

AMARARAA--
NAARRRAAGG

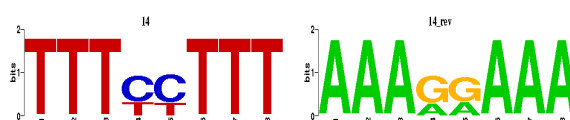
J_MA0050.1_IRF1 5.0993e-04

---TTYTYTKT-
GGTTTCRNTTTN

J_MA0049.1_hb 7.4726e-04

-TTYTYTKT-
NTTTTTNYKS

14

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

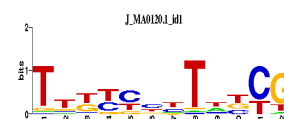
J_MA0277.1_AZF1 1.6754e-10

TTTCCTTT-
TTTCCTTTT

J_MA0370.1_RME1 5.0360e-08

TTTCCTTT---
-TNCCTTTNNA

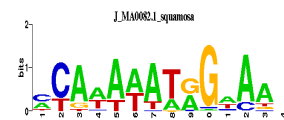
J_MA0120.1_id1 1.2731e-07

---AAAGGAAA-
CGNNANNRRMNA

J_MA0039.1_Klf4 8.0688e-07

-TTTCCTTT-
CCTTYYTTN

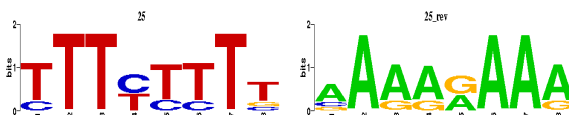
J_MA0082.1_squamosa 2.2498e-05

-TTTCCTTT-----
NTTNCYATWTWGK

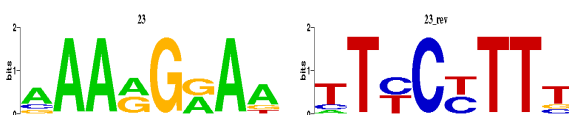
25

Stamp Results

11/21/15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	1.4121e-11	TTTYTTTT- TTTCTTTTT	
J_MA0039.1_Klf4	3.1097e-06	-AAAARAAA- NAARRRAAGG	
J_MA0120.1_id1	1.4474e-05	TTTYTTTT---- TNKYNNNTNNCG	
J_MA0370.1_RME1	8.3882e-05	TTTYTTTT--- -TNCCTTTNNNA	
J_MA0049.1_hb	1.6425e-04	-TTTYTTTT- NTTTTTNYKS	



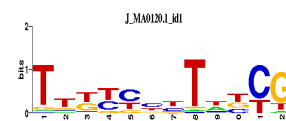
23

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	2.7881e-10	TTYCYTTT- TTTCTTTTT	
J_MA0039.1_Klf4	1.1742e-07	AAARGRAA-- NAARRRAAGG	

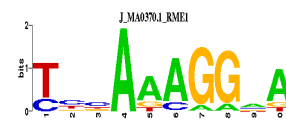
J_MA0120.1_id1 8.5829e-07

---AAARGRAA--
CGNNANNRRMNA



J_MA0370.1_RME1 4.9278e-06

--AAARGRAA
TNNAAGGNA



J_MA0050.1_IRF1 1.9195e-04

-AAARGRAA---
NAAANYGAAACC

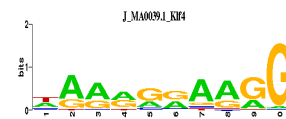


18

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

J_MA0039.1_Klf4 2.9098e-10

-AAAGAAAG-
NAARRRAAGG



J_MA0277.1_AZF1 4.0665e-07

--AAAGAAAG
AAAAAGAAA-



J_MA0370.1_RME1 8.5053e-06

---AAAGAAAG
TNNAAGGNA-



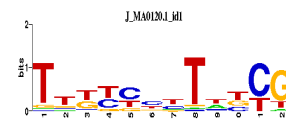
J_MA0080.2_SPI1 1.6647e-04

-CTTCTTT
ACTTCCT--



J_MA0120.1_id1 4.7599e-04

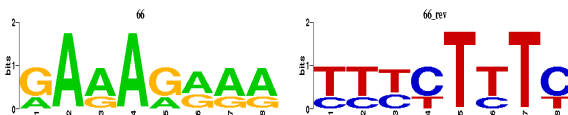
CTTCTTT---
TNKYNNNTNCG



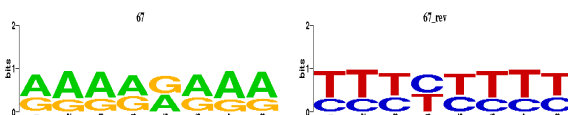
66

Stamp Results

11/21/15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	3.8365e-07	TTYCTTTC- TTTCTTTT	
J_MA0039.1_Klf4	6.4430e-07	GAAAGRAA-- NAARRRAAGG	
J_MA0370.1_RME1	3.8668e-06	--GAAAGRAA TNNAAGGNA	
J_MA0120.1_id1	1.2161e-05	-GAAAGRAA--- CGNNANNRRMNA	
J_MA0081.1_SPIB	1.3418e-03	TTYCTTTC TTCKST-	



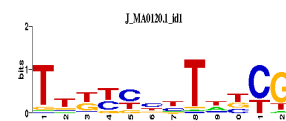
67

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	1.9205e-08	-RAARRRAA- NAARRRAAGG	
J_MA0277.1_AZF1	1.3893e-07	-RAARRRAA AAAAAGAAA	

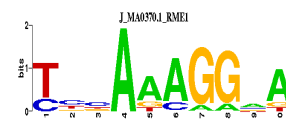
J_MA0120.1_id1 2.8056e-06

---RAARRRAA-
CGNNANNRRMNA



J_MA0370.1_RME1 3.2603e-04

---RAARRRAA
TNNAAGGNA-

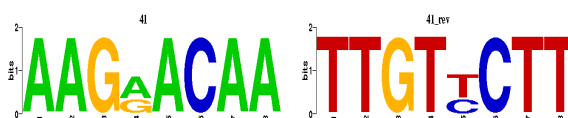


J_MA0287.1_CUP2 1.6122e-03

--TTYYYTTY-
CWTTTYTGCTG



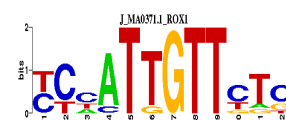
41

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

J_MA0371.1_ROX1

4.8966e-07

AAGRACAA----
GAGAACAAATNGR



J_MA00445.1_D

1.9774e-06

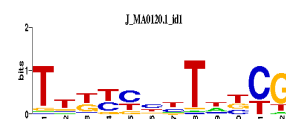
AAGRACAA----
-ANAACAATRGN



J_MA0120.1_id1

3.2337e-06

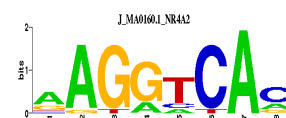
----AAGRACAA
CGNNANNRRMNA



J_MA0160.1_NR4A2

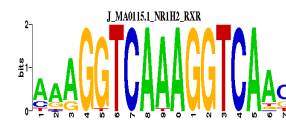
1.2272e-04

TTGTYCTT
GTGACCTT

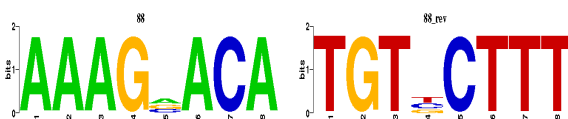


J_MA0115.1_NR1H2_RXR 2.3237e-04

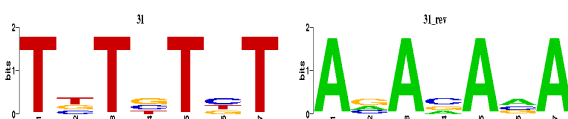
-TTGTYCTT-----
STTGACCTTTGACCTT



88

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0120.1_id1	1.2844e-05	---AAAGNACA-- CGNNANNRRMNA	
J_MA0336.1_MGA1	1.3115e-04	-----TGTNCTTT----- NNNNNNRTGTCTNTNNNNNN	
J_MA0277.1_AZF1	1.3960e-04	TGTNCTTT-- -TTTCTTTT	
J_MA0160.1_NR4A2	1.5715e-04	-TGTNCTTT GTGACCTT-	
J_MA0115.1_NR1H2_RXR	1.8249e-04	-----AAAGNACA-- AAAGGTCAAAGGTCAAS	

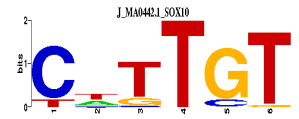


31

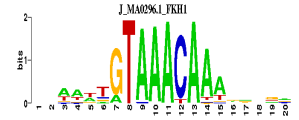
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0010.1_br_Z1	8.7933e-06	--TNTNTNT----- NWTGTGTATNAN	
J_MA0277.1_AZF1	4.6416e-04	TNTNTNT-- TTTCTTTT	

J_MA0442.1_SOX10 7.8820e-04

ANANANA--
--ACAAWG

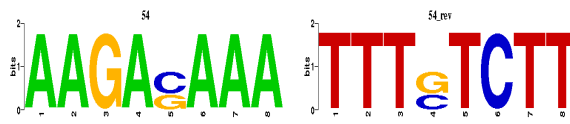
J_MA0296.1_FKH1 1.0159e-03

-----TNTNTNT-----
NNNNNTTTGTTTACANNWNN

J_MA0013.1_br_Z4 1.6991e-03

----ANANANA
TAGTAAANWAW

54

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

J_MA0277.1_AZF1 8.3503e-06

TTTSTCTT--
TTTCTTTTT

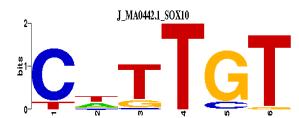
J_MA0010.1_br_Z1 4.7911e-05

--TTTSTCTT----
NWYTTGTYTATNAN

J_MA0050.1_IRF1 1.7647e-04

--TTTSTCTT--
GGTTTCRNTTTN

J_MA0442.1_SOX10 3.6582e-04

AAGASAAA--
---ACAAWG

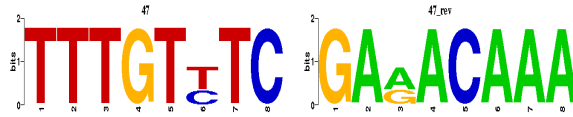
J_MA0459.1_tII 4.5276e-04

--AAGASAAA
AAAAGTCAAM

47

Stamp Results

11/21/15

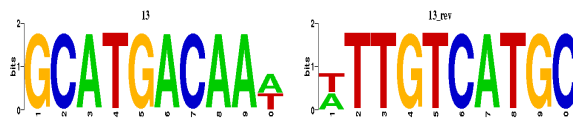


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0010.1_br_Z1	1.8502e-06	--TTTGTTC----	
J_MA0013.1_br_Z4	4.7679e-06	TTTGTTC---	
J_MA0296.1_FKH1	4.9133e-06	-----TTTGTTC-----	
J_MA0041.1_Foxd3	5.2853e-06	-----TTTGTTC	
J_MA0042.1_FOXI1	2.9170e-05	GARACAAA-----	
		-AWAYAAAYANNN	

13



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0143.1_Sox2	1.0291e-11	---GCATGACAAW--	
J_MA0142.1_Pou5f1	4.6028e-11	---GCATGACAAW-	
		ATTTGCATNACAAG	

J_MA0321.1_INO2 4.7966e-06

GCATGACAAW
GCATGTGAA-

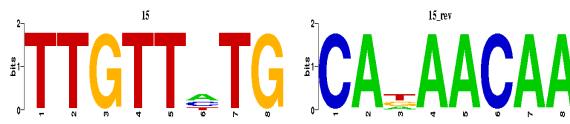
J_MA0322.1_INO4 1.6719e-05

WTTGTCATGC
-TTCACATGC

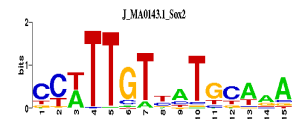
J_MA0252.1_vis 6.7282e-05

WTTGTCATGC
-NTGTCA---

15

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

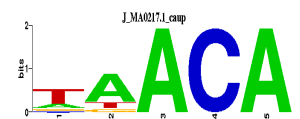
J_MA0143.1_Sox2 8.2144e-10

----CANAACAA---
TNTGCATNACAAWGG

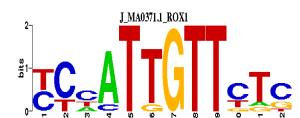
J_MA0142.1_Pou5f1 7.0597e-09

----CANAACAA--
ATTTGCATNACAAWG

J_MA0217.1_caup 1.4194e-05

TTGTTNTG
-TGTTA--

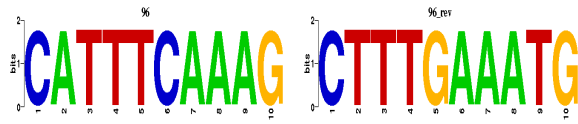
J_MA0371.1_ROX1 2.9931e-05

CANAACAA----
GAGAACAATNGR

J_MA0210.1_ara 3.3665e-05

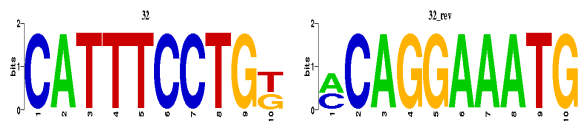
TTGTTNTG
-TGTTW--

96

*forward**reverse compliment*

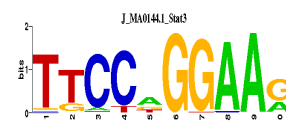
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0142.1_Pou5f1	9.6055e-06	-----CATTTCAAAG ATTTCATNACAAWG	
J_MA0244.1_slbo	2.3266e-05	CTTTGAAATG -TKNGYAAT-	
J_MA0143.1_Sox2	1.1347e-04	-CTTTGAAATG---- CCWTTGTNATGCANA	
J_MA0145.1_Tcfcp2l1	1.3712e-04	-CATTTCAAAG--- CCRGNYNNANCCRG	
J_MA0370.1_RME1	1.9904e-04	CATTTCAAAG--- ---TNNAAGGNA	

32

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0156.1_FEV	3.4163e-11	CATTTCCTGK -AYTTCCTG-	
J_MA0080.2_SPI1	8.0463e-06	CATTTCCTGK -ACTTCCT--	

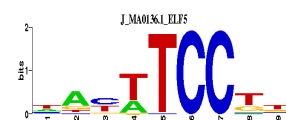
J_MA0144.1_Stat3 1.0558e-05

CATTTCCTGK--
--CTTCCNGGAA

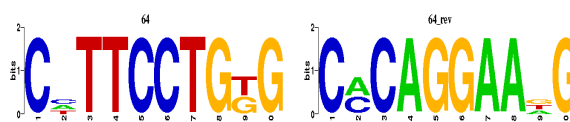
J_MA0438.1_YRM1 1.3116e-05

CATTTCCTGK
-ATNTCCGN-

J_MA0136.1_ELF5 1.3920e-05

MCAGGAAATG
-NMGGAARTN

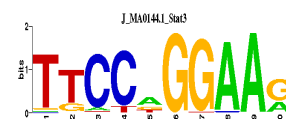
64

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

J_MA0156.1_FEV 5.0549e-07

CNTTCCTGKG
AYTTCCTG--

J_MA0144.1_Stat3 5.1559e-07

CNTTCCTGKG-
-CTTCCNGGAA

J_MA0090.1_TEAD1 8.7097e-07

CMCAGGAANG--
CNSWGGAAATGTR

J_MA0026.1_Eip74EF 1.5121e-05

CNTTCCTGKG
-YTTCCGG--

J_MA0080.2_SPI1 6.7303e-05

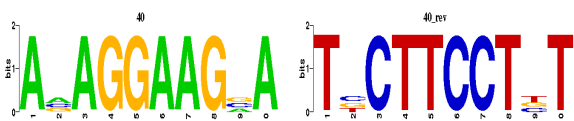
CNTTCCTGKG
ACTTCCT---

38

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0156.1_FEV	2.2758e-07	-CTTCCTGAG AYTCCTG--	
J_MA0144.1_Stat3	4.9307e-07	CTTCCTGAG- CTTCNGGAA	
J_MA0026.1_Eip74EF	6.0037e-07	CTTCCTGAG YTTCCG--	
J_MA0080.2_SPI1	6.4951e-07	-CTTCCTGAG ACTTCCT---	
J_MA0080.1_SPI1	9.1317e-05	CTTCCTGAG STTCN---	

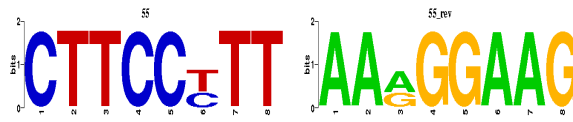
40

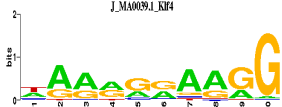
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	8.7158e-08	-ANAGGAAGNA NAARRRAAGG-	
J_MA0149.1_EWSR1-FLI	1.0513e-07	---TNCTTCCTNT----- CCTTCCTTCCTTCCTCC	

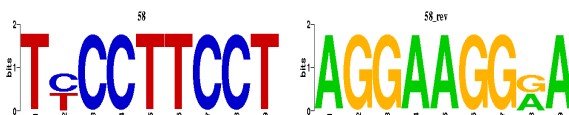
J_MA0080.2_SPI1	1.4526e-06	TNCTTCCTNT -ACTTCCT--	
J_MA0081.1_SPIB	1.9421e-06	ANAGGAAGNA ASMGGAA---	
J_MA0370.1_RME1	1.6863e-05	TNCTTCCTNT--- ---TNCCTTTNNA	

55

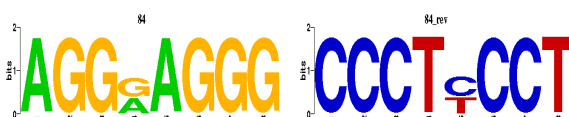
*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0039.1_Klf4	1.0373e-09	-AARGGAAG- NAARRRAAGG	
J_MA0370.1_RME1	2.1837e-07	CTTCCTTT--- -TNCCTTTNNA	
J_MA0080.2_SPI1	6.2556e-07	AARGGAAG- --AGGAAGT	
J_MA0149.1_EWSR1-FLI	2.1713e-06	-----AARGGAAG----- GGAAGGAAGGAAGGAAGG	
J_MA0277.1_AZF1	3.7866e-05	-AARGGAAG AAAAAGAAA	

58

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0149.1_EWSR1-FLI	1.0796e-10	---AGGAAGGRA----- GGAAGGAAGGAAGGAAGG	
J_MA0080.2_SPI1	6.4951e-07	TYCCTTCCT --ACTTCCT	
J_MA0039.1_Klf4	3.2514e-05	---AGGAAGGRA NAARRRAAGG--	
J_MA0080.1_SPI1	9.1317e-05	TYCCTTCCT ---STTCN	
J_MA0156.1_FEV	1.6016e-04	TYCCTTCCT- --AYTTCCTG	



84

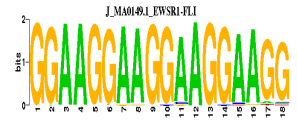
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SPI1	2.8876e-06	-AGGRAGGG- GGGGGNGGGG	
J_MA0039.1_Klf4	3.4995e-06	CCCTYCCT-- CCTTYYTTN	

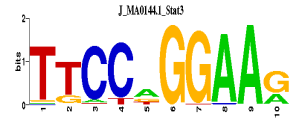
J_MA0080.2_SPI1 1.3657e-05

CCCTYCCT
-ACTTCCT

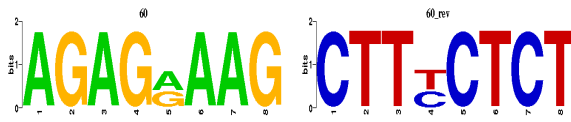
J_MA0149.1_EWSR1-FLI 1.9096e-05

---AGGRAGGG-----
GGAAGGAAGGAAGGAAGG

J_MA0144.1_Stat3 1.0835e-03

CCCTYCCT----
--CTTCNGGAA

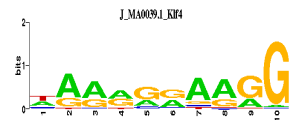
60

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

J_MA0081.1_SPIB 1.0568e-07

CTTYCTCT
-TTCKST

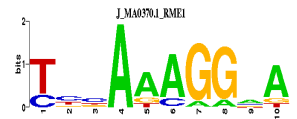
J_MA0039.1_Klf4 3.8994e-07

-AGAGRAAG-
NAARRRAAGG

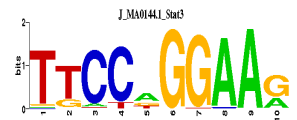
J_MA0080.2_SPI1 4.3299e-06

-CTTYCTCT
ACTTCCT--

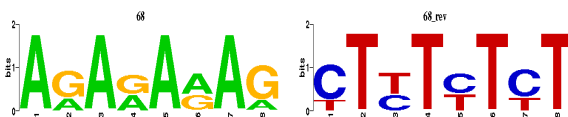
J_MA0370.1_RME1 4.9052e-04

CTTYCTCT---
-TNCCTTTNNA

J_MA0144.1_Stat3 7.4780e-04

CTTYCTCT--
CTTCNGGAA

68

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	2.3234e-06	-CTYTYTCT- CCTTYYTNN	
J_MA0277.1_AZF1	1.6116e-04	CTYTYTCT-- -TTTCTTTT	
J_MA0437.1_YPR196W	9.3701e-04	-AGARARAG CGGRNAAAT	
J_MA0287.1_CUP2	2.0044e-03	--CTYTYTCT- CWTTTYTGCTG	
J_MA0081.1_SPIB	2.5906e-03	CTYTYTCT -TTCKST	



93

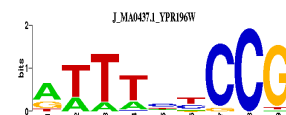
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	4.1256e-04	-CTCTCTCT- CCTTYYTNN	
J_MA0081.1_SPIB	2.4737e-03	CTCTCTCT -TTCKST	

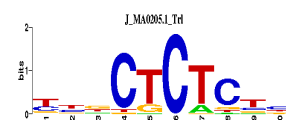
J_MA0277.1_AZF1 3.3690e-03

CTCTCTCT--
-TTTCTTTTT

J_MA0437.1_YPR196W 5.1791e-03

-AGAGAGAG
CGGRNAAAT

J_MA0205.1_Trl 7.2318e-03

-AGAGAGAG-
NNGAGAGNNR

70

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

J_MA0081.1_SPIB 6.0047e-07

CTNCCTCT
-TTCKST

J_MA0080.2_SPI1 2.9577e-05

-CTNCCTCT
ACTTCCT--

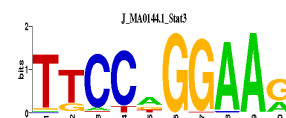
J_MA0039.1_Klf4 2.1886e-04

-CTNCCTCT-
CCTTYYTNN

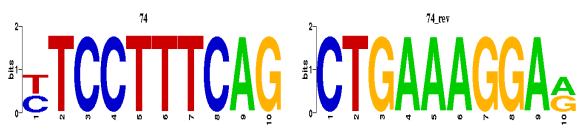
J_MA0370.1_RME1 7.5009e-04

CTNCCTCT---
-TNCCTTTNNA

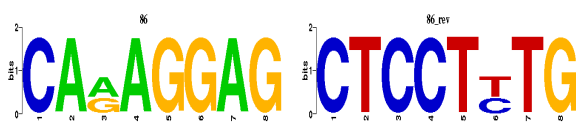
J_MA0144.1_Stat3 1.6523e-03

CTNCCTCT--
CTTCCNGGAA

74

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0370.1_RME1	1.8842e-06	CTGAAAGGAR TNNAAAGGNA	
J_MA0039.1_Klf4	2.7456e-04	CTGAAAGGAR-- --NAARRRAAGG	
J_MA0298.1_FZF1	5.3056e-04	CTGAAAGGAR -TGATAG---	
J_MA0277.1_AZF1	5.6455e-04	-YTCCTTTCAG TTTCTTTTT--	
J_MA0207.1_achi	6.9849e-04	YTCCTTTCAG ---CTGTCA-	



86

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0370.1_RME1	2.3863e-07	CTCCTYTG-- TNCCTTTNNA	
J_MA0065.2_PPARG_RXR	2.3745e-04	-CTCCTYTG----- TGMCCTTTGNCCYNN	

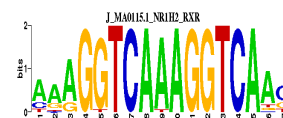
J_MA0081.1_SPIB 3.0159e-04

CTCCTYTG
TTCKST-

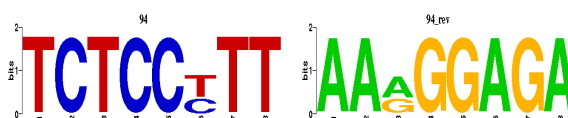
J_MA0114.1_HNF4A 9.2562e-04

-CTCCTYTG----
TGNMCTTTGNNCY

J_MA0115.1_NR1H2_RXR 1.0976e-03

---CTCCTYTG-----
STTGACCTTTGACCTTT

94

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

J_MA0370.1_RME1 1.4908e-04

TCTCCYTT---
-TNCCTTTNNA

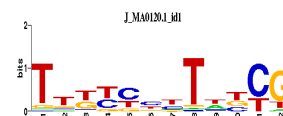
J_MA0277.1_AZF1 2.6981e-04

TCTCCYTT-
TTTCTTTTT

J_MA0039.1_Klf4 3.2258e-04

-TCTCCYTT-
CCTTYYTTN

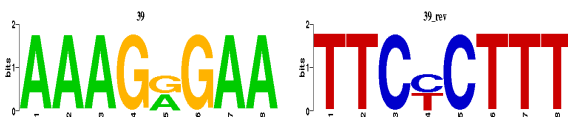
J_MA0120.1_id1 3.9784e-04

---AARGGAGA-
CGNNANNRRMNA

J_MA0354.1_PDR8 6.2682e-04

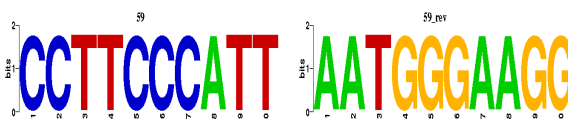
AARGGAGA-
-NCGGAGAT

39

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0277.1_AZF1	3.9920e-07	-TTCYCTTT TTCCTTTT	
J_MA0120.1_id1	6.7731e-06	---AAAGRGAA- CGNNANNRRMNA	
J_MA0011.1_br_Z2	3.5922e-05	AAAGRGAA AAATAGNW	
J_MA0050.1_IRF1	6.9849e-05	---TTCYCTTT- GGTTTCRNTTNN	
J_MA0039.1_Klf4	7.2381e-05	--TTCYCTTT CCTTYYTNN	

59

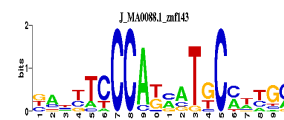
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	5.8797e-05	CCTTCCCATT CCTTYYTNN	
J_MA0080.1_SPI1	1.5380e-04	CCTTCCCATT -STTCN---	

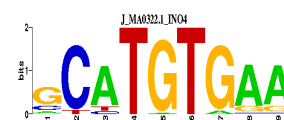
J_MA0321.1_INO2 3.9815e-04

CCTTCCCATT-
--TTCACATGC

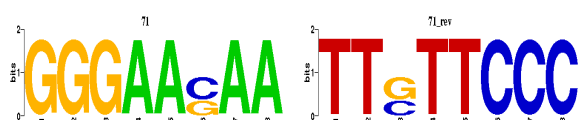
J_MA0088.1_znf143 4.5478e-04

-----AATGGGAAGG-
KCNNKGMANNMTGGGANNNN

J_MA0322.1_INO4 4.6371e-04

CCTTCCCATT-
--TTCACATGC

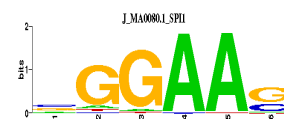
71

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

J_MA0371.1_ROX1 2.3902e-05

GGGAASAA----
GAGAACAATNGR

J_MA0080.1_SPI1 8.5514e-05

TTSTTCCC
--STTCCN

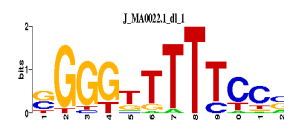
J_MA0113.1_NR3C1 1.2243e-04

-----TTSTTCCC
NYNGNACRKNNTGTTTCYN

J_MA0294.1_EDS1 1.4727e-04

-TTSTTCCC
NTTNTTCN

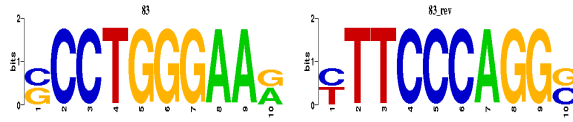
J_MA0022.1_dl_1 2.2870e-04

GGGAASAA----
NGGAAAAACCCS

83

Stamp Results

11/21/15



forward

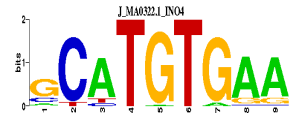
reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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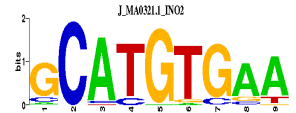
J_MA0344.1_NHP10	5.5696e-06	YTTCCCAGGS --TCCCCGGN	
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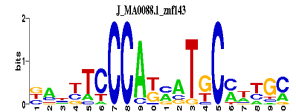
J_MA0322.1_INO4	4.9877e-05	YTTCCCAGGS -TTCACATGC	
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J_MA0321.1_INO2	6.8026e-05	YTTCCCAGGS -TTCACATGC	
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J_MA0088.1_znf143	8.3010e-05	-----SCCTGGGAAR-- KCNNKGMANNMTGGGANNNN	
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J_MA0282.1_CEP3	2.7360e-04	YTTCCCAGGS NTTCCGAR--	
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99

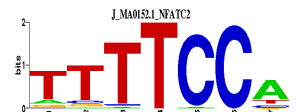


forward

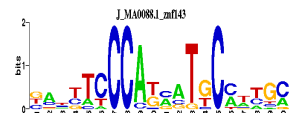
reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
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J_MA0152.1_NFATC2	3.4796e-06	CTGGRAAG -TGAAAA	
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J_MA0088.1_znf143	1.6037e-04	-----CTGGRAAG-- KCNNKGMANNMTGGGANNNN	
-------------------	------------	---	--

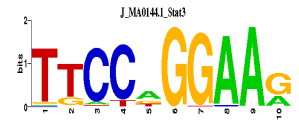


Stamp Results

11/21/15

J_MA0144.1_Stat3 4.7962e-04

----CTGGRAAG
CTTCNCGGAA--



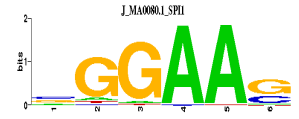
J_MA0282.1_CEP3 5.4423e-04

CTTYCCAG
NTTCCGAR

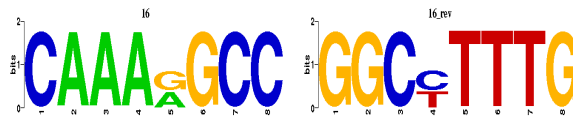


J_MA0080.1_SPI1 5.9876e-04

CTTYCCAG
STTCN--

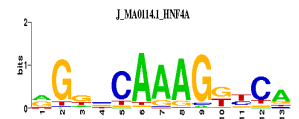


16

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

J_MA0114.1_HNF4A 7.0213e-07

----CAAAGCC--
RGNNCAAAGKNCA



J_MA0290.1_DAL81 2.2061e-05

-----GGCYTTTG
AATCCCGCCCGCGGCTTTT-



J_MA0115.1_NR1H2_RXR 2.5005e-05

-----CAAAGCC--
AAAGGTCAAAGGTCAAS



J_MA0065.1_PPARG_RXR 3.6277e-05

----GGCYTTTG-----
NNNTGACCTTTGACCYCINN

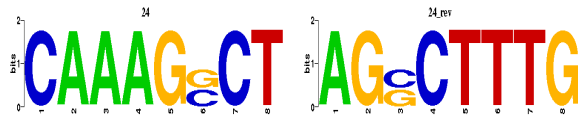


J_MA0065.2_PPARG_RXR 4.2709e-05

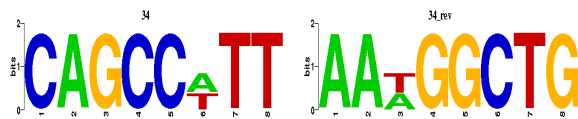
-GGCYTTTG-----
TGMCCTTTGNCCYNN



24

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0442.1_SOX10	1.5250e-04	-CAAAGSCT ACAAWG---	
J_MA0064.1_PBF	3.8930e-04	AGSCTTTG --RCTTT-	
J_MA0020.1_Dof2	4.6665e-04	CAAAGSCT -AAAGCN-	
J_MA0370.1_RME1	4.9692e-04	AGSCTTTG-- TNCCTTTNNA	
J_MA0053.1_MNB1A	6.3248e-04	AGSCTTTG --NCTTT-	



34

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0359.1_RAP1	2.7740e-03	--AAWGGCTG TGTATGGGTG	
J_MA0263.1_ttx-3_c	8.6547e-03	-----CAGCCWTT YTAACKAARCCAAT	

J_MA0442.1_SOX10 9.5134e-03

--AAWGGCTG
ACAAGW----



J_MA0077.1_SOX9 1.0606e-02

CAGCCWTT----
---CYATTGTTN

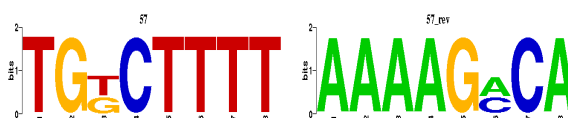


J_MA0248.1_tup 1.3774e-02

--AAWGGCTG
WTAATKG---



57

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

J_MA0277.1_AZF1 3.4349e-07

TGKCTTTT-
TTTCTTTTT



J_MA0459.1_tll 6.3957e-07

--TGKCTTTT
KTTGACTTTT



J_MA0290.1_DAL81 1.4603e-05

-----TGKCTTTT
AATCCCGCCCGCGGCTTTT



J_MA0053.1_MNB1A 3.1633e-05

TGKCTTTT
--NCTTT-

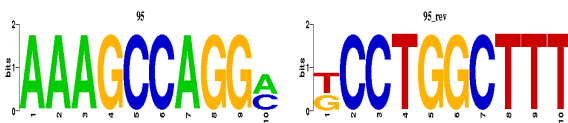


J_MA0010.1_br_Z1 5.2986e-05

----TGKCTTTT--
NWYTTGTYTATNAN

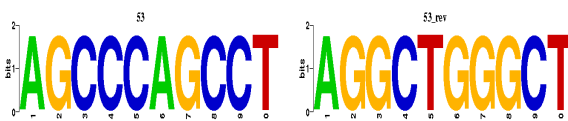


95

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0053.1_MNB1A	1.0307e-05	KCCTGGCTTT -----NCTTT	
J_MA0064.1_PBF	1.5948e-05	KCCTGGCTTT -----RCTTT	
J_MA0020.1_Dof2	6.8743e-05	KCCTGGCTTT ----NGCTTT	
J_MA0021.1_Dof3	2.0619e-04	KCCTGGCTTT ----NRCTTT	
J_MA0323.1_IXR1	3.8732e-04	-----KCCTGGCTTT CMCCGCTTCCGGYTT-	

53

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.1_SP1	6.1064e-04	AGCCCAGCCT- -ACCCNGCCNN	
J_MA0039.2_Klf4	6.7931e-04	AGCCCAGCCT- -GCCMCRCCCN	

J_MA0267.1_ACE2 6.9099e-04

AGGCTGGGCT
-NGCTGGN--

J_MA0402.1_SWI5 2.2346e-03

AGCCAGCCT
-NACCAGCA-

J_MA0368.1_RIM101 3.4116e-03

AGGCTGGGCT
---CTTGGCR

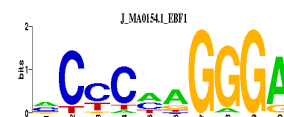
87

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

J_MA0368.1_RIM101 3.1311e-06

AGCCMAGG
YGCCAAG-

J_MA0154.1_EBF1 5.0928e-05

AGCCMAGG--
NCCCNAGGGA

J_MA0161.1_NFIC 3.6377e-04

AGCCMAGG
NGCCAA--

J_MA0313.1_HAP2 1.2107e-03

AGCCMAGG
-RCCAA--

J_MA0263.1_ttx-3_c 3.2903e-03

-----AGCCMAGG
YTAACKAARCCAAT-

91

Stamp Results

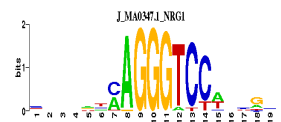
11/21/15

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

J_MA0347.1_NRG1

4.7254e-04

-----TGSAGCCT-----
 NNNNNWGGACCCTKNNNNNN



J_MA0213.1_brk

2.4343e-03

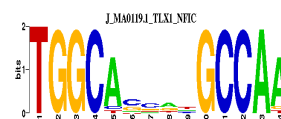
AGGCTSCA-
 -RGCGCCRS



J_MA0119.1_TLX1_NFIC

2.6494e-03

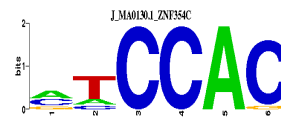
-----TGSAGCCT
 TTGGCNNNSTGCCA



J_MA0130.1_ZNF354C

7.0452e-03

-TGSAGCCT
 GTTGAK---



J_MA0260.1_che-1

1.1082e-02

AGGCTSCA
 -GGYTTC-



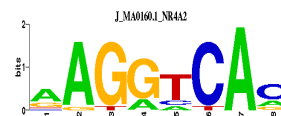
22

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

J_MA0160.1_NR4A2

1.8684e-11

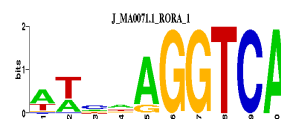
STGACCTTG
 GTGACCTT-



J_MA0071.1_RORA_1

1.6369e-10

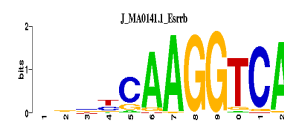
--CAAGGTCAS
 WWNNAGGTCA-



J_MA0141.1_Esrrb 1.4862e-09

STGACCTTG----

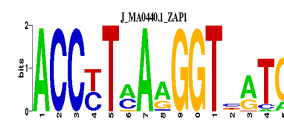
-TGACCTTGRNNN



J_MA0440.1_ZAP1 1.6963e-07

-STGACCTTG-----

CATNACCTTKARGGT



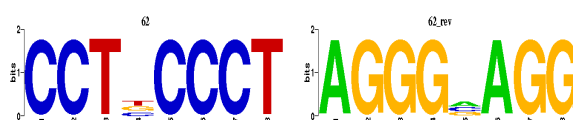
J_MA0115.1_NR1H2_RXR 5.8219e-07

-----STGACCTTG

STTGACCTTTGACCTTT



62

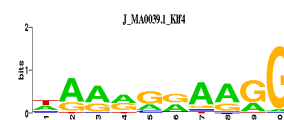
*forward**reverse compliment**Name**E value**Alignment**Motif*

J_MA0039.1_Klf4

2.7698e-06

CCTNCCCT--

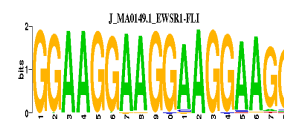
CCTTYYYTTN



J_MA0149.1_EWSR1-FLI 9.0680e-05

----CCTNCCCT-----

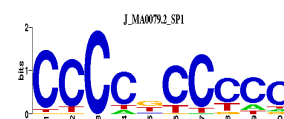
CCTTCCTTCCTTCCTTCC



J_MA0079.2_SP1 9.3983e-05

AGGGNAGG--

GGGGNGGGG



J_MA0366.1_RGM1 2.5783e-04

CCTNCCCT

---CCCCT



J_MA0112.2_ESR1 2.9371e-04

AGGGNAGG-----

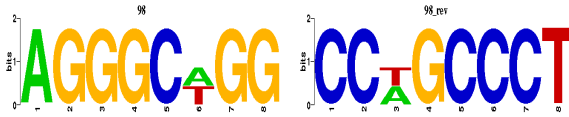
RGGTcANNNTGACCTNNNNN



98

Stamp Results

11/21/15

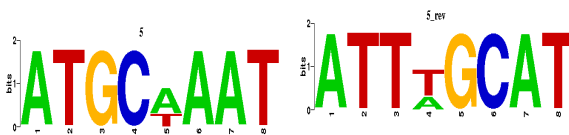


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0112.2_ESR1	5.7531e-05	AGGGCWGG----- RGGTCANNNTGACCTNNNN	
J_MA0403.1_TBF1	6.7160e-04	--AGGGCWGG NTAGGGYT--	
J_MA0079.2_SP1	1.4327e-03	-AGGGCWGG- GGGGNGGGG	
J_MA0366.1_RGM1	1.7687e-03	CCWGCCCT ---CCCCT	
J_MA0342.1_MSN4	1.9583e-03	AGGGCWGG AGGGG---	

5

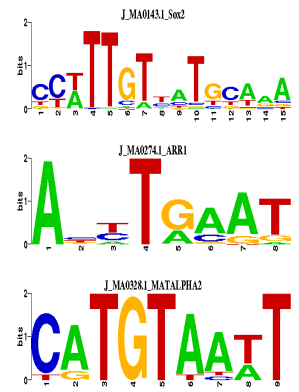


forward

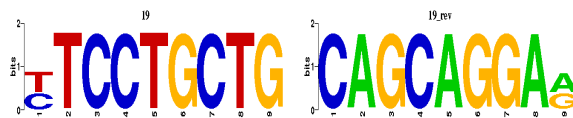
reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0453.1_nub	3.8533e-11	---ATTTCAT- NTNATTGCATA	
J_MA0142.1_Pou5f1	1.0351e-10	ATTTCAT----- ATTTCATNACAAWG	

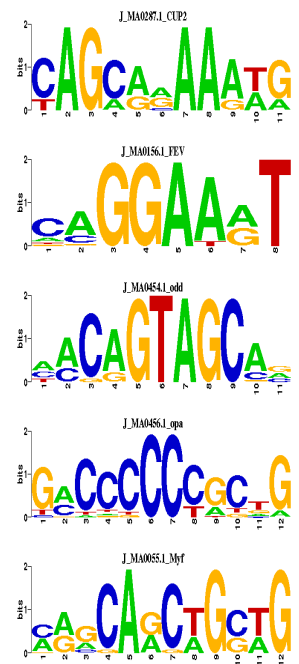
J_MA0143.1_Sox2	5.0712e-07	ATTTCAT----- -TNTGCATNACAAWGG
J_MA0274.1_ARR1	2.2121e-06	ATGCAAAT ATTCARNT
J_MA0328.1_MATALPHA2	1.8742e-05	-ATGCAAAT CATGTAATT



19

*forward**reverse compliment*

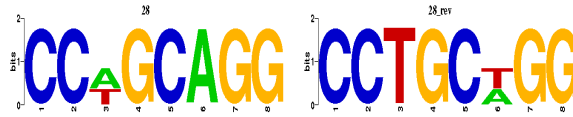
Name	E value	Alignment	Motif
J_MA0287.1_CUP2	7.2977e-07	CAGCAGGAR-- CAGCARAAWGG	
J_MA0156.1_FEV	6.5617e-05	--YTCCTGCTG AYTTCCTG---	
J_MA0454.1_odd	1.4141e-04	YTCCTGCTG-- NTGCTACTGTN	
J_MA0456.1_opa	2.6516e-04	---YTCCTGCTG GMCCCCCGCNG	
J_MA0055.1_Myf	2.7735e-04	YTCCTGCTG--- CAGCAGYTGCYK	



28

Stamp Results

11/21/15

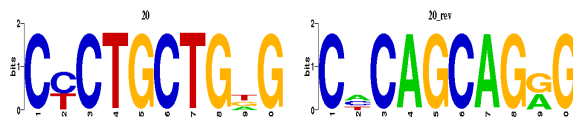


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0139.1_CTCF	5.9481e-06	-----CCTGCWGG--- NNSYGCCMCCTRSTGGNNR	
J_MA0402.1_SWI5	1.0558e-05	--CCWGCAGG NACCAGCA--	
J_MA0055.1_Myf	3.6860e-04	CCWGCAGG----- -CAGCAGYTGCYK	
J_MA0456.1_opa	3.7709e-04	-----CCTGCWGG GMCCCCCGCNG-	
J_MA0267.1_ACE2	9.8061e-04	CCTGCWGG- --NGCTGGN	

20

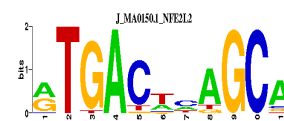


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0139.1_CTCF	3.5276e-05	-----CYCTGCTGNG-- NNSYGCCMCCTRSTGGNNR	
J_MA0456.1_opa	5.9731e-05	CNCAGCAGRG----- --CNGCGGGGGGKC	

J_MA0150.1_NFE2L2 7.8758e-05

CYCTGCTGNG----
---TGCTNWTGTCAY

J_MA0402.1_SWI5 7.8695e-04

-CNCAGCAGRG
NACCAGCA---

J_MA0332.1_MET28 9.3975e-04

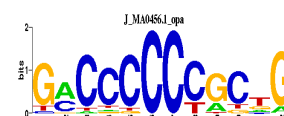
-CNCAGCAGRG
CCACAG-----

80

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

J_MA0456.1_opa

1.6848e-06

CAGCWGGG----
CNGCGGGGGGKC

J_MA0048.1_NHLH1 2.7865e-05

---CAGCWGGG-
NCGCAGCTGCGN

J_MA0139.1_CTCF 2.9823e-05

-----CCCWGCTG-----
NNSYGCCMCCTRSTGGNNR

J_MA0055.1_Myf 1.2212e-04

-CCCWGCTG---
CAGCAGYTGCYK

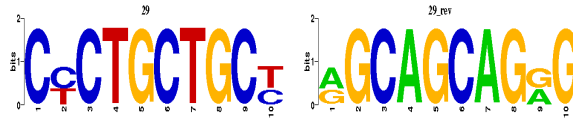
J_MA0364.1_REI1 7.1761e-04

CAGCWGGG-
--NCAGGGG

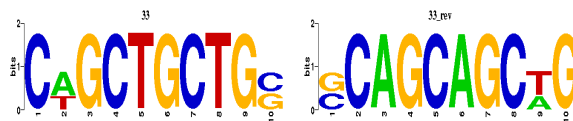
29

Stamp Results

11/21/15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	8.7096e-06	—CYCTGCTGCTG— CAGCAGYTGCYK	
J_MA0456.1_opa	5.9731e-05	RGCAGCAGRG---- --CNGCGGGGGGKC	
J_MA0139.1_CTCF	1.6733e-04	-----CYCTGCTGCTG-- NNSYGCCMCCTRSTGGNNR	
J_MA0138.1_REST	2.5295e-04	--RGCAGCAGRG----- TCAGCACCWNGGACAGCNC	
J_MA0454.1_odd	3.1226e-04	CYCTGCTGCTGCTG-- --NTGCTACTGTN	



33

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	1.7319e-10	--SCAGCAGCTG MRGCARCTGCTG	
J_MA0048.1_NHLH1	9.7537e-06	SCAGCAGCTG--- -NCGCAGCTGCGN	

J_MA0454.1_odd 1.4275e-04

—SCAGCAGCTG
NACAGTAGCAN



J_MA0402.1_SWI5 3.4370e-04

--SCAGCAGCTG
NACCAGCA----



J_MA0086.1_sna 1.4368e-03

SCAGCAGCTG
----CACCTG

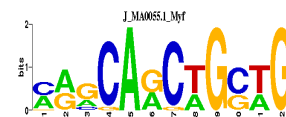


78

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

J_MA0055.1_Myf 1.5811e-05

---CTGCTNCT-
CAGCAGYTG CYK



J_MA0454.1_odd 3.4105e-04

CTGCTNCT---
NTGCTACTGTN



J_MA0402.1_SWI5 4.1416e-04

—AGNAGCAG
NACCAGCA—



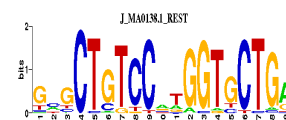
J_MA0048.1_NHLH1 2.2998e-03

—AGNAGCAG---
NCGCAGCTGCGN



J_MA0138.1_REST 6.6969e-03

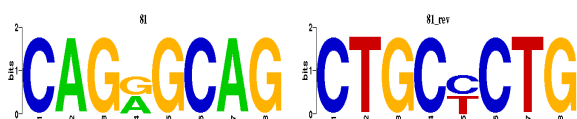
--AGNAGCAG-----
TCAGCACCWNGGACAGCNC



73

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0053.1_MNB1A	1.5950e-04	CTGCTNTG --NCTTT--	
J_MA0064.1_PBF	2.3209e-04	CTGCTNTG --RCTTT--	
J_MA0020.1_Dof2	5.7074e-04	CTGCTNTG -NGCTTT-	
J_MA0150.1_NFE2L2	6.0754e-04	CTGCTNTG---- -TGCTNWGTCAY	
J_MA0332.1_MET28	9.7675e-04	CTGCTNTG-- ---CTGTGG	



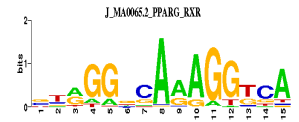
81

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0451.1_kni	1.2718e-04	CTGCYCTG---- NTGCTCTANTTT	
J_MA0364.1_REI1	1.4006e-03	-CAGRGCAG NCAGGGG--	

J_MA0065.2_PPARG_RXR 2.1603e-03

-----CTGCTCTG--
TGMCCCTTTGNCCYNN



J_MA0276.1_ASH1 5.3553e-03

-CTGCTCTG-
CCYGATNYGG

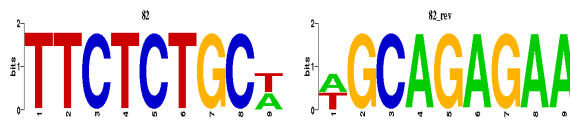


J_MA0326.1_MAC1 5.4763e-03

CAGRGCAG-
-YGAGCAA



82

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

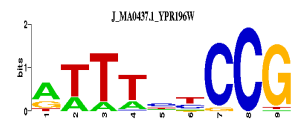
J_MA0287.1_CUP2 8.5506e-05

-WGCAGAGAA-
CAGCARAAWG



J_MA0437.1_YPR196W 1.0681e-03

WGCAGAGAA--
--CGGRNAAAT



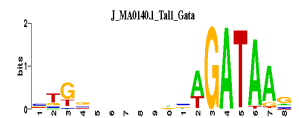
J_MA0432.1_YNR063W 3.3190e-03

WGCAGAGAA
-TCGGAGAT



J_MA0140.1_Tal1_Gata 3.5235e-03

-TTCTCTGCW-----
NTTATCTNNNNNNNNNCNN



J_MA0354.1_PDR8 6.6653e-03

WGCAGAGAA
-NCGGAGAT

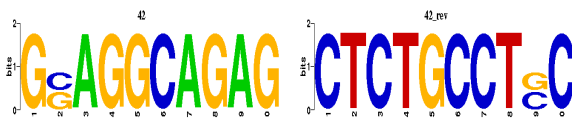


89

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0150.1_NFE2L2	1.3094e-06	CTGCWGAG---- -TGCTNWGTCAY	
J_MA0055.1_Myf	4.1300e-04	-----CTGCWGAG MRGCARCTGCTG--	
J_MA0320.1_IME1	2.3830e-03	CTCWGCAG CTCGGCGG	
J_MA0138.1_REST	2.4685e-03	CTCWGCAG----- -TCAGCACCWNGGACAGCNC	
J_MA0138.2_REST	2.9799e-03	-----CTGCWGAG GNNGCTGTCCNNGGTGCTGAN	

42

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0140.1_Tal1_Gata	2.1664e-04	---CTCTGCCTSC----- NTTATCTNNNNNNNNNCNN	
J_MA0283.1_CHA4	2.2440e-04	-CTCTGCCTSC NCTCCGCC---	

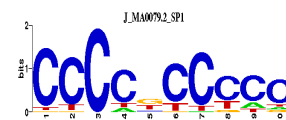
J_MA0062.1_GABPA 3.3841e-04

CTCTGCCTSC
SNCTTCCGGT

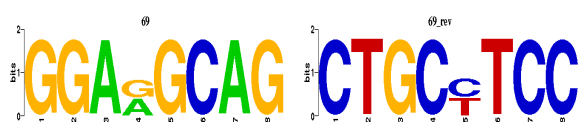
J_MA0340.1_MOT3 8.8002e-04

CTCTGCCTSC
---TRCCTN-

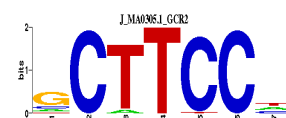
J_MA0079.2_SP1 2.1838e-03

CTCTGCCTSC
CCCCNCCCCC

69

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

J_MA0305.1_GCR2 7.5956e-06

CTGCTCC-
--GCTTCN

J_MA0304.1_GCR1 6.0930e-05

CTGCTCC-
-GGCTTCCA

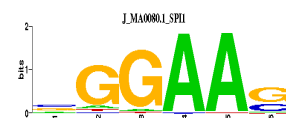
J_MA0417.1_YAP5 1.8431e-04

CTGCTCC
ATGCTT--

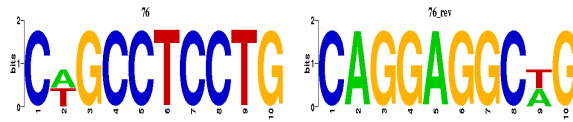
J_MA0323.1_IXR1 2.4172e-04

--CTGCTCC-----
CMCCGCTTCCGGYTT

J_MA0080.1_SPI1 8.8114e-04

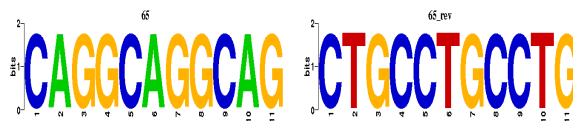
CTGCTCC-
---STTCN

76

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0155.1_INSM1	1.7209e-04	CWGCCTCCTG--- -YCCCCCTGRCA	J_MA0155.1_INSM1
J_MA0086.1_sna	5.4992e-04	CWGCCTCCTG ----CACCTG	J_MA0086.1_sna
J_MA0156.1_FEV	2.1108e-03	CWGCCTCCTG --AYTTCCTG	J_MA0156.1_FEV
J_MA0144.1_Stat3	2.6313e-03	---CAGGAGGCWG TTCCNGGAAG---	J_MA0144.1_Stat3
J_MA0139.1_CTCF	3.0092e-03	-----CAGGAGGCWG-- YNNCCASYAGGKGGCRSNN	J_MA0139.1_CTCF

65

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0149.1_EWSR1-FLI	4.9622e-05	-----CAGGCAGGCAG- GGAAGGAAGGAAGGAAGG	J_MA0149.1_EWSR1-FLI
J_MA0340.1_MOT3	1.9112e-04	CTGCCTGCCTG -TRCCTN----	J_MA0340.1_MOT3

Stamp Results

11/21/15

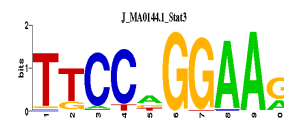
J_MA0156.1_FEV 2.9480e-03

-CTGCCTGCCTG
AYTTCCTG----



J_MA0144.1_Stat3 4.6972e-03

CTGCCTGCCTG
CTTCCNGGAA-

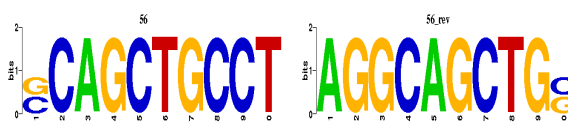


J_MA0026.1_Eip74EF 5.5088e-03

CTGCCTGCCTG
YTTCCGG-----

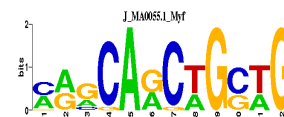


56

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

J_MA0055.1_Myf 4.2451e-10

--SCAGCTGCCT
CAGCAGYTGCYK



J_MA0048.1_NHLH1 6.5694e-08

--SCAGCTGCCT
NCGCAGCTGCGN



J_MA0100.1_Myb 1.3152e-04

SCAGCTGCCT
-CAACNGYC-



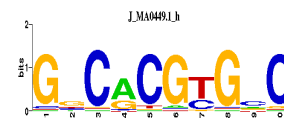
J_MA0086.1_sna 6.2415e-04

SCAGCTGCCT
-CACCTG---



J_MA0449.1_h 7.0828e-04

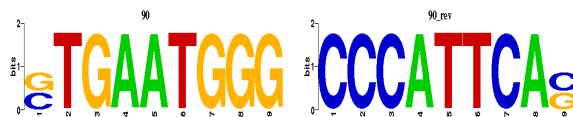
-SCAGCTGCCT
GNCACGTGNC-



17

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0359.1_RAP1	2.7183e-05	TGTGTGTGT- TGTATGGGTG	
J_MA0041.1_Foxd3	4.3522e-04	---TGTGTGTGT NAWTGTTTNTTT	
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	



90

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0359.1_RAP1	1.3831e-06	STGAATGGG-- -TGTATGGGTG	
J_MA0331.1_MCM1	4.7403e-05	---STGAATGGG TTCCYAAWNNGG	

Stamp Results

11/21/15

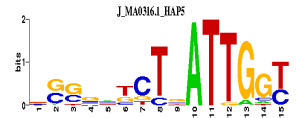
J_MA0248.1_tup 2.9800e-04

CCCATTCAS
-CMATTAW-



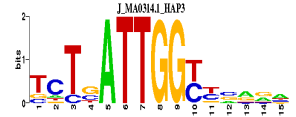
J_MA0316.1_HAP5 5.5669e-04

CCCATTCAS-----
ACCAATNAGMNNSSN

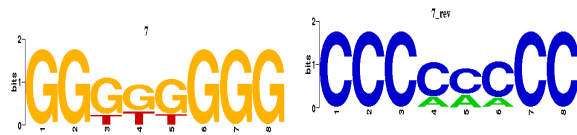


J_MA0314.1_HAP3 9.4098e-04

-----CCCATTCAS-
NYYNRRCCAATSAGA



7



forward

reverse compliment

Name

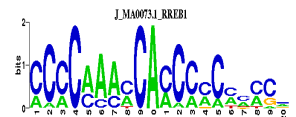
E value

Alignment

Motif

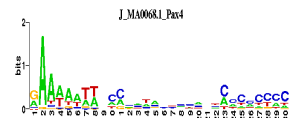
J_MA0073.1_RREB1 1.6571e-07

-GGGGGGGG-----
NGKKKGKGGGTGKTTTGGGG



J_MA0068.1_Pax4 2.3035e-06

GGGGGGGG-----
GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY



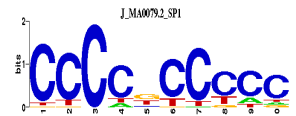
J_MA0039.2_Klf4 3.3257e-06

-CCCCCCCC-
GCCMCRCCCN



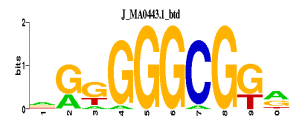
J_MA0079.2_SP1 4.5524e-06

GGGGGGGG--
GGGGNGGGG



J_MA0443.1_btd 9.3891e-06

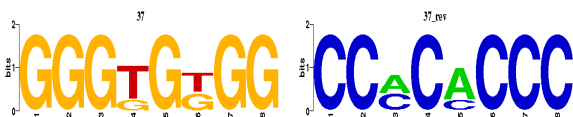
-CCCCCCCC-
YCCGCCCMCN



37

Stamp Results

11/21/15

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

J_MA0039.2_Klf4

1.6784e-10

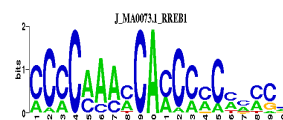
—CCMCACCC—
GCCMCRCN



J_MA0073.1_RREB1

1.5578e-06

-----CCMCACCC—
CCCCAAAMCACCMMMCN



J_MA0436.1_YPR022C 1.0589e-05

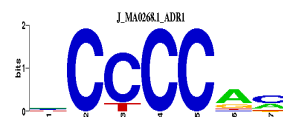
GGGTGKGG
—NGTGGGG



J_MA0268.1_ADR1

5.0837e-05

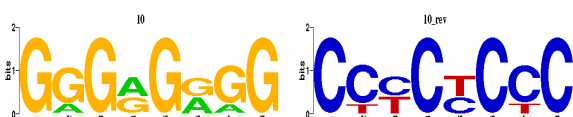
GGGTGKGG—
--KTGGGGN



J_MA0373.1_RPN4

8.1925e-05

CCMCACCC
CGCCACC—



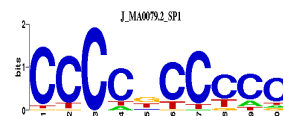
10

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

J_MA0079.2_SP1

1.0002e-07

--GGGRGRGG
GGGGNGGGG

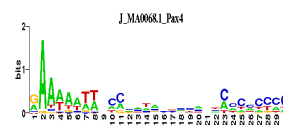


J_MA0341.1_MS2 3.8154e-05

GGGRGRGG
---AGGGG



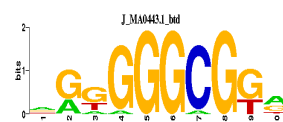
J_MA0068.1_Pax4 5.5308e-05 -----CCYCYCCC
RAAWAWWWNNMNNNNNNNNNNNNMNNNNYMC



J_MA0342.1_MSN4 1.0434e-04 CCYCYCCC
CCCCT---



J_MA0443.1_btd 2.3947e-04 -CCYCYCCC-
YCCGCCCMCN

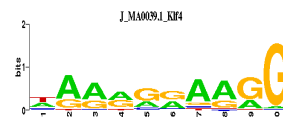


46

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

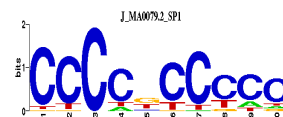
J_MA0039.1_Klf4

2.2410e-08

CCYYYCCY--
CCTTTYTTN

J_MA0079.2_SP1

9.3266e-06

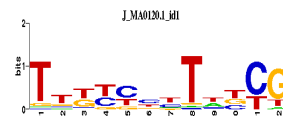
--RGRRRRGG
GGGGGNGGGG

J_MA0065.2_PPARG_RXR 1.5346e-03

---CCYYYCCY---
TGMCCTTTGNCCYNN

J_MA0120.1_id1

1.7662e-03

-RGRRRRGG---
CGNNANNRRMNA

J_MA0341.1_MS2

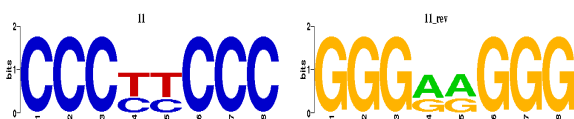
1.7805e-03

CCYYYCCY
CCCCT---


11

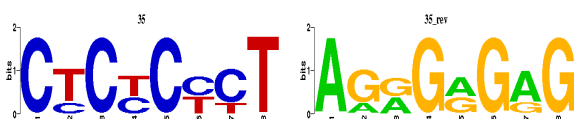
Stamp Results

11/21/15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.9418e-07	-GGGARGGG- GGGGGNGGGG	
J_MA0039.1_Klf4	6.1619e-05	CCCYTCCC--- -CCTTYYTTN	
J_MA0341.1_MSN2	2.6557e-04	CCCYTCCC CCCCT---	
J_MA0342.1_MSN4	4.2576e-04	CCCYTCCC CCCCT---	
J_MA0080.1_SPI1	5.4620e-04	CCCYTCCC --STTCN	

35

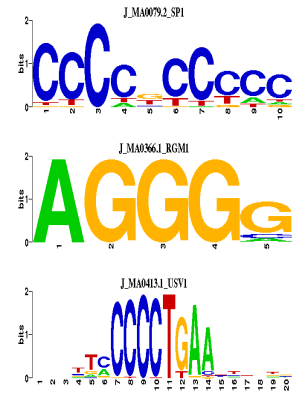
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.1_Klf4	3.7505e-05	-AGRGRGAG- NAARRRAAGG	
J_MA0057.1_MZF1_5-13	7.4828e-05	--AGRGRGAG NKAGGGGNAN	

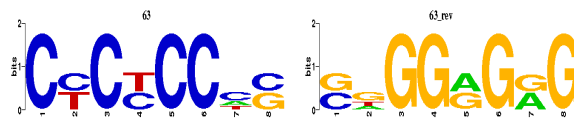
Stamp Results

11/21/15

J_MA0079.2_SP1	3.5466e-04	---CTCYCYCT CCCCNCCCCC-
J_MA0366.1_RGM1	7.5235e-04	CTCYCYCT ---CCCCT
J_MA0413.1_USV1	1.0048e-03	---CTCYCYCT----- NNNNTMCCCCCTGAANNNNNN



63



forward

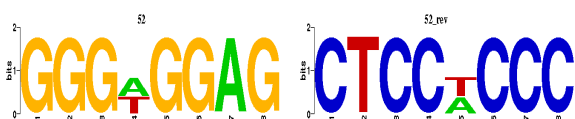
reverse compliment

Name	E value	Alignment	Motif
J_MA0079.2_SP1	3.6552e-05	-SNGGRGRG- GGGGGNGGGG	
J_MA0140.1_Tal1_Gata	1.0933e-04	-----CYCYCCNS--- NTTATCTNNNNNNNNNCNN	
J_MA0068.1_Pax4	1.7153e-04	--SNGGRGRG----- GKRNNNNKNNNNNNNNNNKNNWWWTTTY	
J_MA0456.1_opa	1.8895e-04	---SNGGRGRG- CNGCGGGGGGKC	
J_MA0073.1_RREB1	8.3640e-04	-SNGGRGRG----- NGKKKGKGGGTGKTTTGGGG	

45

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	2.3496e-04	GCTCCTCCT NCTCCGCC-	
J_MA0062.1_GABPA	2.4814e-03	GCTCCTCCT-- -SNCTTCCGGT	
J_MA0454.1_odd	2.8257e-03	GCTCCTCCT-- -NTGCTACTGTN	
J_MA0055.1_Myf	3.5476e-03	--GCTCCTCCT- CAGCAGYTGCYK	
J_MA0081.1_SPIB	3.6189e-03	AGGAGGAGC -ASMGGAA-	



52

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0130.1_ZNF354C	3.7058e-05	GGGWGGAG --GTGGAK	
J_MA0373.1_RPN4	1.2376e-04	GGGWGGAG -GGTGGCG	

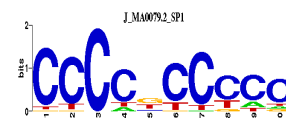
Stamp Results

11/21/15

J_MA0283.1_CHA4 1.4101e-04

-CTCCWCCC
NCTCCGCC-

J_MA0079.2_SP1 2.1007e-04

--GGGWGGAG
GGGGGNGGGG

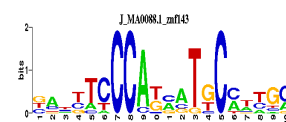
J_MA0090.1_TEAD1 3.2413e-04

GGGWGGAG----
CNSWGGAATGTR

72

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

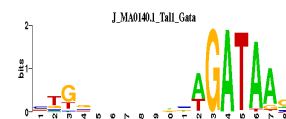
J_MA0088.1_znf143 4.9665e-04

-----TGGGARGA-
KCNNKGMANNMTGGGANNNN

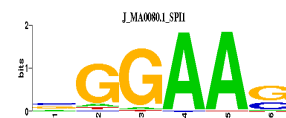
J_MA0062.1_GABPA 6.0416e-04

-TGGGARGA-
ACCGGAAGNS

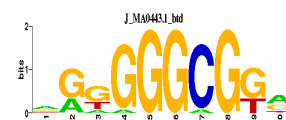
J_MA0140.1_Tal1_Gata 7.8808e-04

-----TCYTCCCA-----
NTTATCTNNNNNNNNNCNN

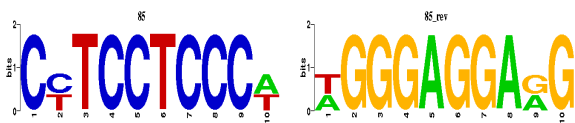
J_MA0080.1_SPI1 1.3104e-03

TCYTCCCA
-STTCN-

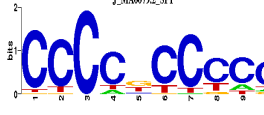
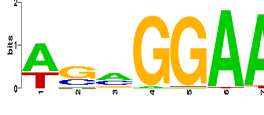
J_MA0443.1_btd 1.4748e-03

TCYTCCCA--
YCCGCCCMCN

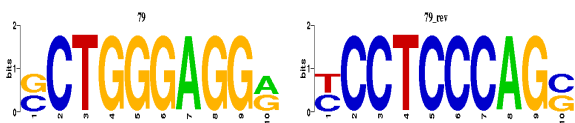
85



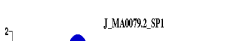
reverse compliment

Name	E value	Alignment	Motif
J_MA0149.1_EWSR1-FLI	2.1072e-06	-----CYTCCTCCCW--- CCTTCCTTCCTTCCTTCC	
J_MA0080.2_SPI1	5.3287e-05	-CYTCCTCCCW ACTTCCT-----	
J_MA0079.2_SP1	1.2419e-04	WGGGAGGARG-- --GGGGGNGGGG	
J_MA0081.1_SPIB	3.1581e-04	WGGGAGGARG --ASMGGAA--	
J_MA0283.1_CHA4	3.6842e-04	CYTCCTCCCW NCTCCGCC--	

79



reverse compliment

Name	E value	Alignment	Motif
J_MA0079.2_SP1	2.1269e-04	SCTGGGAGGR- -GGGGGNGGGG	
J_MA0320.1_IME1	9.7737e-04	SCTGGGAGGR -CTCGGCGG-	

Stamp Results

11/21/15

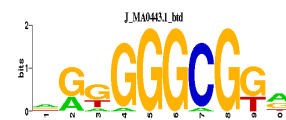
J_MA0344.1_NHP10 1.3647e-03

YCCTCCCAGS-
---TCCCCGGN



J_MA0443.1_btd 1.4786e-03

YCCTCCCAGS
YCCGCCCMCN



J_MA0267.1_ACE2 3.8035e-03

YCCTCCCAGS-
----NCCAGCN



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