

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

Input file: 100 motifs loaded

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

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

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

[Download results as a PDF](#)

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

Multiple Alignment

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

```

0:      ---CAGGCCTG-----
1:      ----AGGCCNGG-----
2:      -CCTGGGCCTGGG-----
3:      GCCNNGGCCT-----
4:      -----CCGCNGCC---
5:      ----GCGGCCGCCG-----
6:      ----GGCCCNGC-----
7:      -----CCYCCCC---
8:      ---GNGGCCTGG-----
9:      ----CCNCCTCC-----
10:     --GCGCCGCCGC-----
11:     -----GCNGCTGC---
12:     ---GCGGCCTNC-----
13:     -----CCCYTCCC----
14:     -----GSCCGCGCGS---
15:     -----CCCGSCGC----
16:     --CCGGGCCCGGGC-----
17:     -----CCCCNCCC----
18:     ---ARGGCCTGNG-----
19:     -CNGAGGCCT-----
20:     --CNAGGCCTNG-----
21:     --CGCCGCKCC-----
22:     -----GSCCGCGSC---
```

Stamp Results

11/22/15

```

23: -----GGCTSCGG-----
24: -----GCCTSCGC-----
25: ---CTGGSCTG-----
26: ---GGGSCCTG-----
27: -----CTGCTGCTCC-----
28: -----CCTGCNNG-----
29: -----GCCGNGGC-----
30: -----GCCCNNGG-----
31: -----TSCTCCTCC-----
32: ---NCGGCCTCC-----
33: ---CCGCSSCGCS-----
34: -----GCGCGCGC-----
35: --TNGGGCCTNG-----
36: -----GGCTGNNG-----
37: ---CNGCCTCCNC-----
38: -----CTCCNGCC-----
39: ---GCGSCTGC-----
40: -----GCTCNGCC-----
41: -----CTCCGSCC-----
42: ---CCGGCCGCCC-----
43: ---GCCNCTCC-----
44: ---CNGCCTGGC-----
45: -----CCNGGCTC-----
46: ---GGCNCCGC-----
47: ---GCCAGCNC-----
48: ---GCTGCTGNT-----
49: -----CCTSTGGG-----
50: ---CTCCCNCC-----
51: ---TCCCNNGC-----
52: ---NCTCCTCCCC-----
53: -----CCCASCTC-----
54: -----CCNGGAGC-----
55: -----CNCTGGGCC-----
56: ---AGSCTGGG-----
57: -----CCTNCCTG-----
58: ---SCGCCGCGS-----
59: -----CCTGGNAG-----
60: -----CCTNCCCC-----
61: --CTAGGCCTAGGC-----
62: ---TGCCTGSCTG-----
63: -----CCTGGCCCTGGC-----
64: -----CCCNNGGGCC-----
65: ---CCGCCCGGCC-----

```

Stamp Results

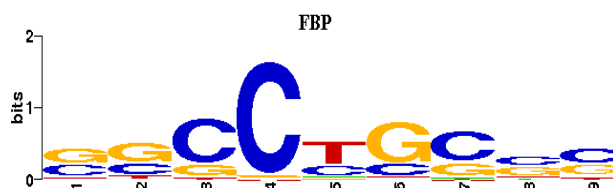
11/22/15

```

66:      -----GGCCNGAG-----
67:      -----CCTSAGGC-----
68:      ----CTTCCTGCCT-----
69:      -----CCSCGCCC-----
70:      -----CCCGGNGC-----
71:      ----CGGCCTGCCT-----
72:      -----CTGCCTCCCT-----
73:      -----GCCCGCGGS-----
74:      ----CCGSCTCC-----
75:      -CNGCCGCCTS-----
76:      -----GGSCTCCG-----
77:      CCCAGCCCCAGC-----
78:      --NCCCTCCCGS-----
79:      ---GNGCCCGGSC-----
80:      -----CNGCCGCCNG-----
81:      -----GCTCTGGG-----
82:      -----CTSCTGGC-----
83:      --GSCTTCCTCY-----
84:      -----TGGCTGCCTG-----
85:      ----CGSGCTCC-----
86:      ---GGCCTCTGGS-----
87:      -----GCCCGCCSGC-----
88:      -----GCCTCNCC-----
89:      -----CCTGCAGC-----
90:      -----CTCCGCGC-----
91:      ----TGCCCTGCCCTG-----
92:      ----GGCCTCGGSC-----
93:      ----GNGGCTGCGS-----
94:      --NCGGGCTTNG-----
95:      ----GNGCCCGCGS-----
96:      -----NCCCGCCCC-----
97:      CTCTGCCTCTGC-----
98:      -----CCCTGSAG-----
99:      -----CCYCYSCGC-----

```

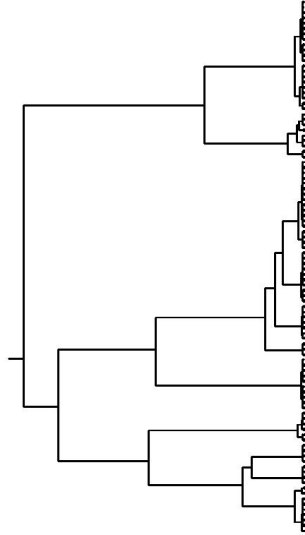
Familial Profile:
[\(click for matrix\)](#)



Motif Tree

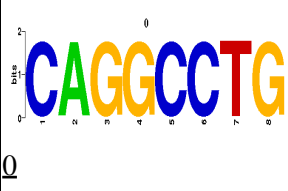
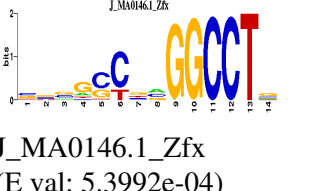
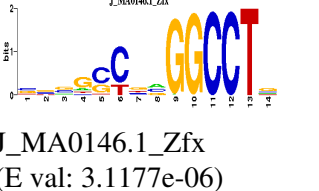
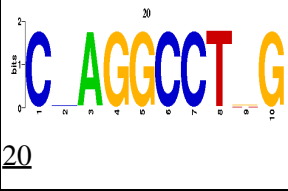
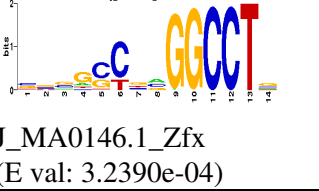
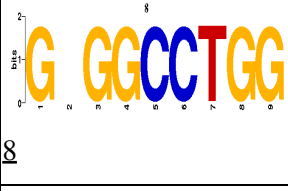
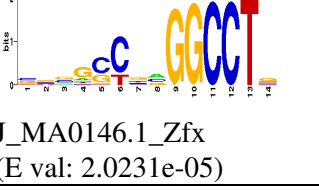
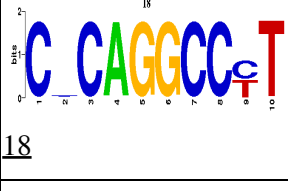
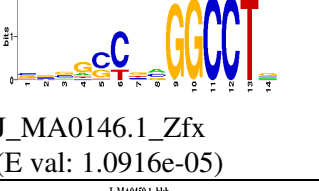
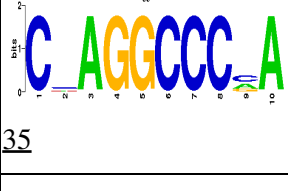
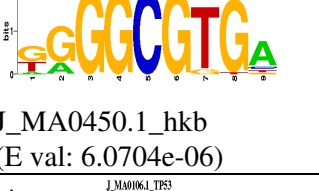
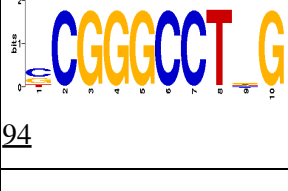
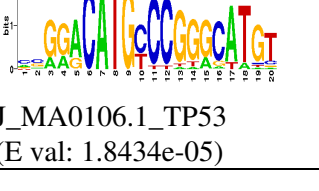
Tree (drawn by **Phylip**)

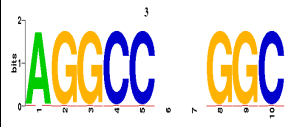
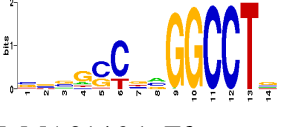
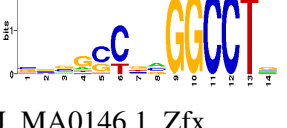
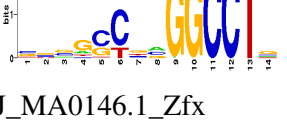
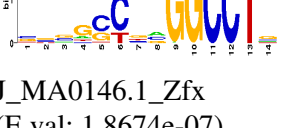
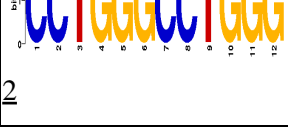
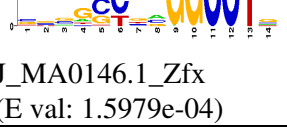
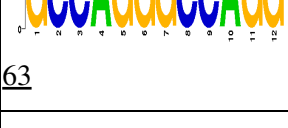
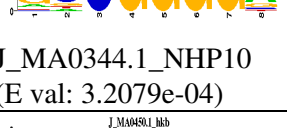
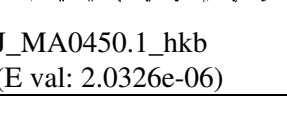
[Click here for Newick-format tree \(viewable with MEGA\)](#)

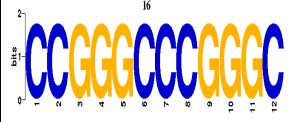
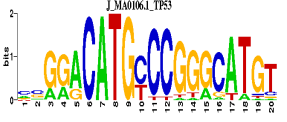
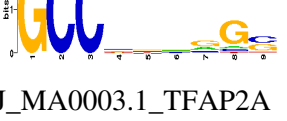
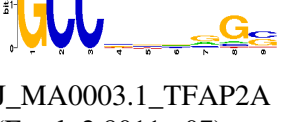


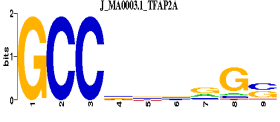
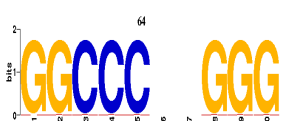
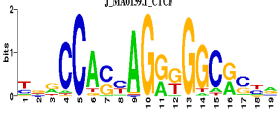
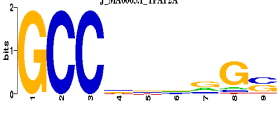
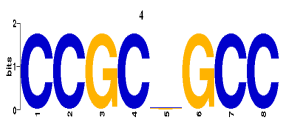
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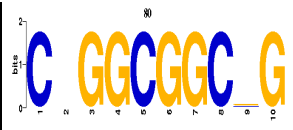
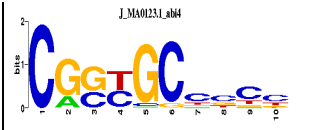
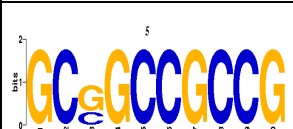
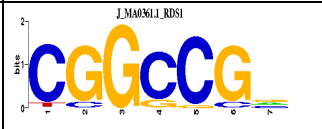
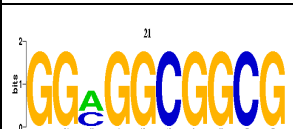
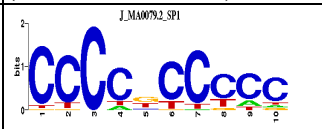
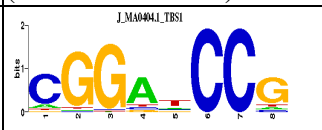
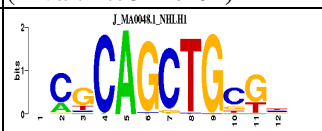
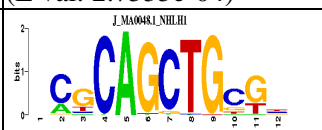
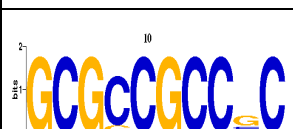
Best match in
user-defined

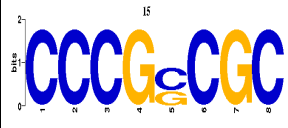
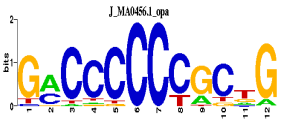
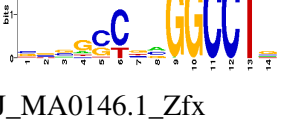
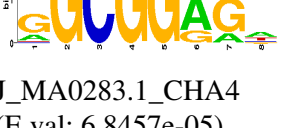
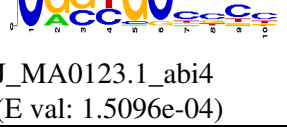
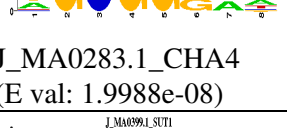
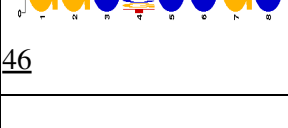
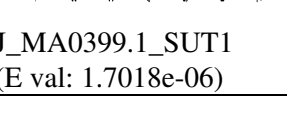
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 8	 J_MA0146.1_Zfx (E val: 2.0231e-05)
 18	 J_MA0146.1_Zfx (E val: 1.0916e-05)
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 94	 J_MA0106.1_TP53 (E val: 1.8434e-05)

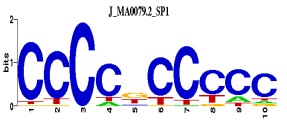
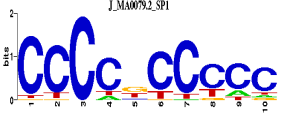
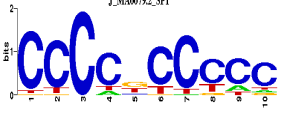
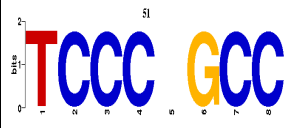
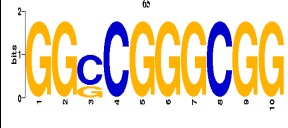
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 <u>61</u>	 J_MA0146.1_Zfx (E val: 1.4499e-08)
 <u>19</u>	 J_MA0146.1_Zfx (E val: 1.1715e-09)
 <u>92</u>	 J_MA0146.1_Zfx (E val: 1.8674e-07)
 <u>2</u>	 J_MA0146.1_Zfx (E val: 1.5979e-04)
 <u>63</u>	 J_MA0344.1_NHP10 (E val: 3.2079e-04)
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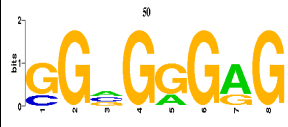
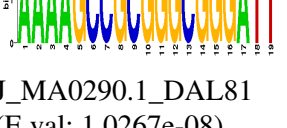
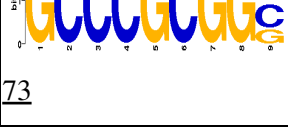
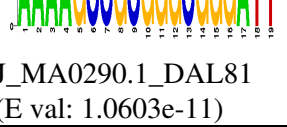
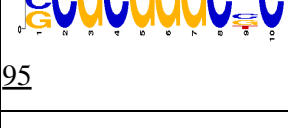
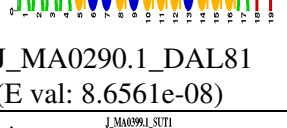
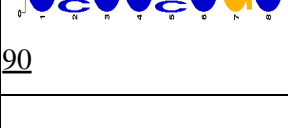
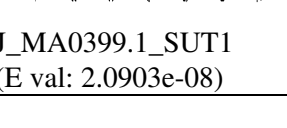
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 <u>6</u>	 J_MA0267.1_ACE2 (E val: 4.3113e-04)
 <u>55</u>	 J_MA0163.1_PLAG1 (E val: 1.1282e-06)
 <u>25</u>	 J_MA0381.1_SKN7 (E val: 1.6074e-03)
 <u>91</u>	 J_MA0039.2_Klf4 (E val: 2.0721e-05)
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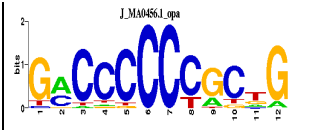
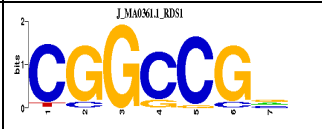
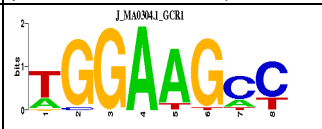
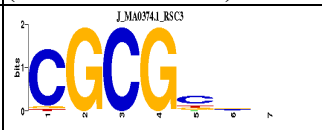
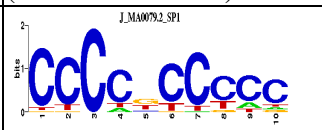
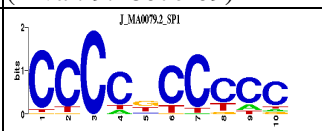
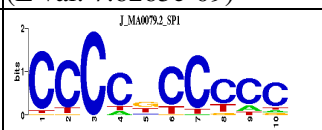
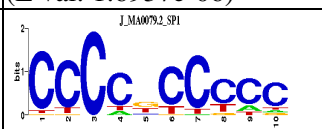
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 64	 J_MA0163.1_PLAG1 (E val: 5.2969e-08)
 49	 J_MA0332.1_MET28 (E val: 9.2151e-07)
 86	 J_MA0139.1_CTCF (E val: 2.8521e-04)
 81	 J_MA0332.1_MET28 (E val: 1.8480e-06)
 66	 J_MA0450.1_hkb (E val: 4.8794e-05)
 67	 J_MA0003.1_TFAP2A (E val: 8.3092e-06)
 4	 J_MA0320.1_IME1 (E val: 2.2712e-06)

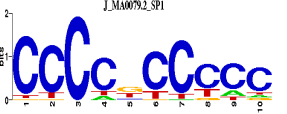
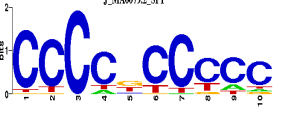
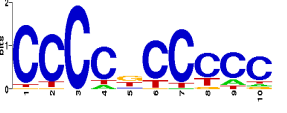
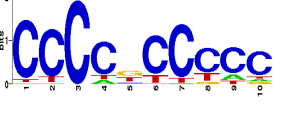
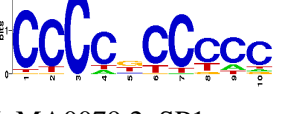
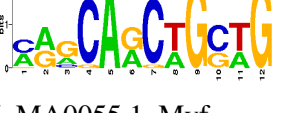
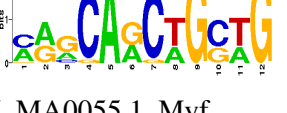
 <u>80</u>	 J_MA0123.1_abi4 (E val: 7.5955e-06)
 <u>5</u>	 J_MA0361.1_RDS1 (E val: 2.6900e-06)
 <u>21</u>	 J_MA0079.2_SP1 (E val: 8.0645e-07)
 <u>75</u>	 J_MA0320.1_IME1 (E val: 2.0795e-05)
 <u>23</u>	 J_MA0404.1_TBS1 (E val: 2.7324e-04)
 <u>36</u>	 J_MA0048.1_NHLH1 (E val: 2.7535e-04)
 <u>93</u>	 J_MA0048.1_NHLH1 (E val: 7.6988e-07)
 <u>10</u>	 J_MA0123.1_abi4 (E val: 1.1209e-06)

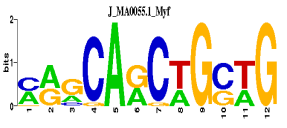
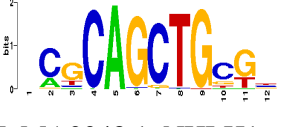
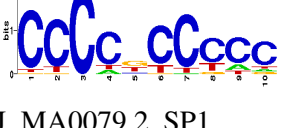
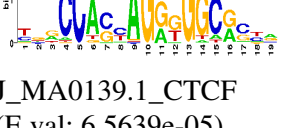
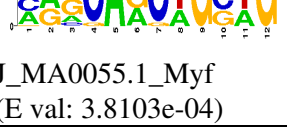
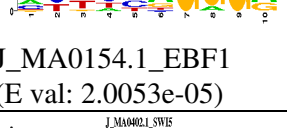
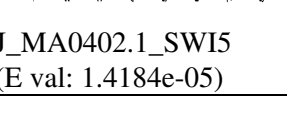
 15	 J_MA0456.1_opa (E val: 5.4275e-06)
 33	 J_MA0399.1_SUT1 (E val: 6.9306e-06)
 58	 J_MA0394.1_STP1 (E val: 1.0722e-06)
 29	 J_MA0146.1_Zfx (E val: 7.4298e-09)
 24	 J_MA0283.1_CHA4 (E val: 6.8457e-05)
 76	 J_MA0123.1_abi4 (E val: 1.5096e-04)
 40	 J_MA0283.1_CHA4 (E val: 1.9988e-08)
 46	 J_MA0399.1_SUT1 (E val: 1.7018e-06)

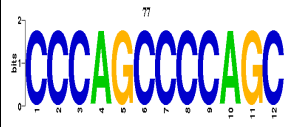
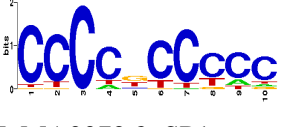
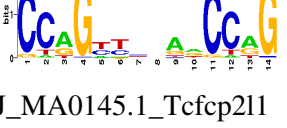
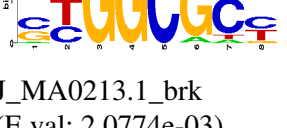
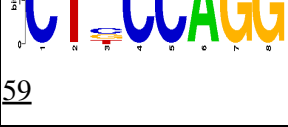
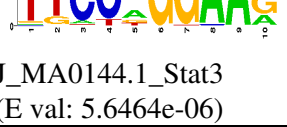
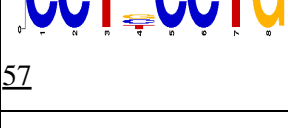
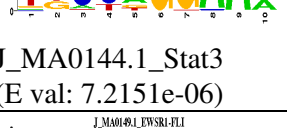
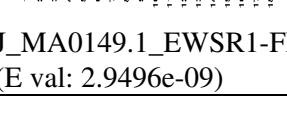
 17	 J_MA0079.2_SP1 (E val: 3.1986e-11)
 96	 J_MA0079.2_SP1 (E val: 4.8606e-13)
 69	 J_MA0079.2_SP1 (E val: 7.7990e-09)
 51	 J_MA0344.1_NHP10 (E val: 4.7571e-08)
 42	 J_MA0361.1_RDS1 (E val: 2.3235e-06)
 65	 J_MA0344.1_NHP10 (E val: 2.3324e-05)
 87	 J_MA0290.1_DAL81 (E val: 9.3861e-09)
 38	 J_MA0400.1_UGA3 (E val: 5.7452e-07)

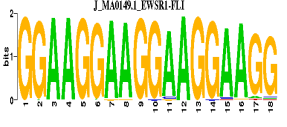
 41	 J_MA0283.1_CHA4 (E val: 1.9671e-08)
 50	 J_MA0410.1_UGA3 (E val: 2.8267e-07)
 14	 J_MA0375.1_RSC30 (E val: 3.2899e-08)
 34	 J_MA0375.1_RSC30 (E val: 5.4253e-09)
 22	 J_MA0290.1_DAL81 (E val: 1.0267e-08)
 73	 J_MA0290.1_DAL81 (E val: 1.0603e-11)
 95	 J_MA0290.1_DAL81 (E val: 8.6561e-08)
 90	 J_MA0399.1_SUT1 (E val: 2.0903e-08)

 99	 J_MA0456.1_opa (E val: 1.0245e-06)
 12	 J_MA0361.1_RDS1 (E val: 4.4628e-04)
 32	 J_MA0304.1_GCR1 (E val: 1.1111e-04)
 85	 J_MA0374.1_RSC3 (E val: 2.2042e-03)
 7	 J_MA0079.2_SP1 (E val: 9.1807e-09)
 60	 J_MA0079.2_SP1 (E val: 7.6265e-09)
 88	 J_MA0079.2_SP1 (E val: 1.6937e-06)
 13	 J_MA0079.2_SP1 (E val: 2.5402e-07)

 78	 J_MA0079.2_SP1 (E val: 7.1020e-08)
 9	 J_MA0079.2_SP1 (E val: 1.1280e-07)
 31	 J_MA0079.2_SP1 (E val: 1.3224e-05)
 52	 J_MA0079.2_SP1 (E val: 1.9275e-07)
 37	 J_MA0162.1_Egr1 (E val: 1.1359e-04)
 74	 J_MA0079.2_SP1 (E val: 2.4036e-06)
 11	 J_MA0055.1_Myf (E val: 2.8957e-07)
 48	 J_MA0055.1_Myf (E val: 4.0278e-08)

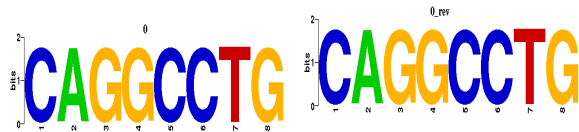
 <u>27</u>	 J_MA0055.1_Myf (E val: 2.8144e-05)
 <u>39</u>	 J_MA0048.1_NHLH1 (E val: 1.1427e-05)
 <u>43</u>	 J_MA0079.2_SP1 (E val: 4.7472e-05)
 <u>97</u>	 J_MA0081.1_SPIB (E val: 5.8925e-04)
 <u>28</u>	 J_MA0139.1_CTCF (E val: 6.5639e-05)
 <u>89</u>	 J_MA0055.1_Myf (E val: 3.8103e-04)
 <u>98</u>	 J_MA0154.1_EBF1 (E val: 2.0053e-05)
 <u>82</u>	 J_MA0402.1_SWI5 (E val: 1.4184e-05)

 47	 J_MA0039.2_Klf4 (E val: 9.3916e-07)
 77	 J_MA0079.2_SP1 (E val: 7.2192e-07)
 56	 J_MA0344.1_NHP10 (E val: 1.4559e-04)
 53	 J_MA0145.1_Tcfp211 (E val: 5.1857e-04)
 45	 J_MA0213.1_brk (E val: 2.0774e-03)
 59	 J_MA0144.1_Stat3 (E val: 5.6464e-06)
 57	 J_MA0144.1_Stat3 (E val: 7.2151e-06)
 68	 J_MA0149.1_EWSR1-FLI1 (E val: 2.9496e-09)

 71	 J_MA0429.1_YLL054C (E val: 5.6613e-04)
 72	 J_MA0149.1_EWSR1-FLI (E val: 2.4873e-05)
 62	 J_MA0340.1_MOT3 (E val: 1.2026e-04)
 84	 J_MA0304.1_GCR1 (E val: 3.1510e-04)
 83	 J_MA0080.2_SPI1 (E val: 1.4526e-06)

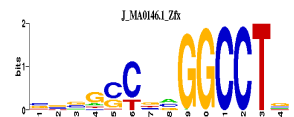
Motif Similarity Matches

0

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

J_MA0146.1_Zfx

5.3992e-04

CAGGCCTG-----
NAGGCCNNGGCNNN


Stamp Results

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J_MA0086.1_sna 6.4886e-03

CAGGCCTG
--CACCTG

J_MA0450.1_hkb 6.6948e-03

-CAGGCCTG
TCACGCCCM

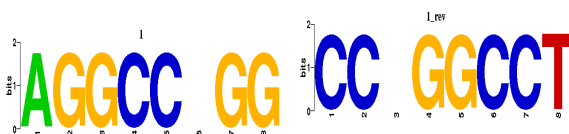
J_MA0381.1_SKN7 6.8876e-03

CAGGCCTG
NYGGCC--

J_MA0340.1_MOT3 9.4999e-03

CAGGCCTG
--TRCCTN

1

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

J_MA0146.1_Zfx 3.1177e-06

-----CCNNGCCT-
NNNGCCNNGCCTN

J_MA0144.1_Stat3 3.5224e-03

AGGCCNNG--
CTTCNNGGAA

J_MA0344.1_NHP10 6.0748e-03

--CCNNGCCT
TCCCCGN--

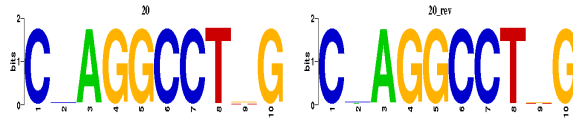
J_MA0086.1_sna 6.7581e-03

AGGCCNNG
-CACCTG-

J_MA0381.1_SKN7 6.8876e-03

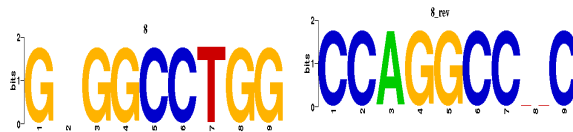
-AGGCCNNG
NYGGCC---

20

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	3.2390e-04	CNAGGCCTNG----- -NAGGCCNNGGCNNN	
J_MA0106.1_TP53	4.0251e-03	-----CNAGGCCTNG----- ACATGCCCGGGCATGTCCNN	
J_MA0276.1_ASH1	6.5024e-03	CNAGGCCTNG CCYGATNYGG	
J_MA0340.1_MOT3	8.1136e-03	CNAGGCCTNG ---TRCCTN-	
J_MA0344.1_NHP10	1.2862e-02	--CNAGGCCTNG TCCCCGGN----	

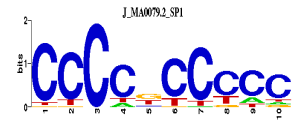
8

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	2.0231e-05	CCAGGCCNC----- -NAGGCCNNGGCNNN	
J_MA0450.1_hkb	9.9623e-05	CCAGGCCNC TCACGCCCM	

J_MA0079.2_SP1 4.3579e-03

—GNGGCCTGG
GGGGGNGGGG



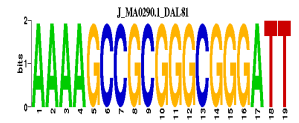
J_MA0344.1_NHP10 7.0944e-03

--CCAGGCCNC
TCCCCGNN---

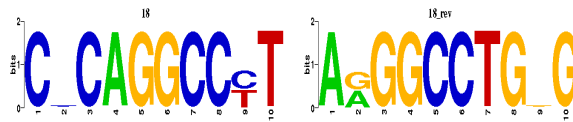


J_MA0290.1_DAL81 7.7616e-03

---CCAGGCCNC-----
AATCCCGCCCGCGGCTTTT

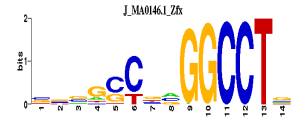


18

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

J_MA0146.1_Zfx 1.0916e-05

ARGGCCTGNG-----
NAGGCCNNGGCNNN



J_MA0344.1_NHP10 1.0604e-04

ARGGCCTGNG-
---NCCGGGGA



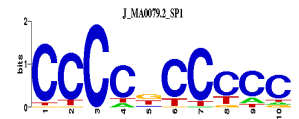
J_MA0450.1_hkb 8.5309e-04

CNCAGGCCYT
-TCACGCCCM



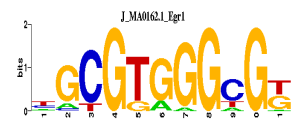
J_MA0079.2_SP1 1.4138e-03

ARGGCCTGNG
GGGGGNGGGG

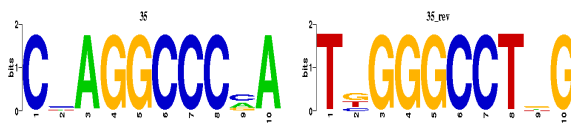


J_MA0162.1_Egr1 3.0923e-03

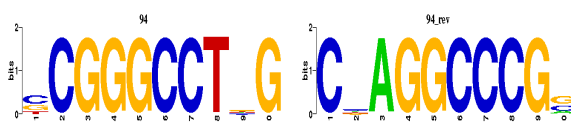
---CNCAGGCCYT
MCGCCACGCN--



35

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0450.1_hkb	6.0704e-06	TNGGGCCTNG -KGGGCGTGA	
J_MA0039.2_Klf4	8.6991e-04	-CNAGGCCCN GCCMCRCCCN-	
J_MA0079.2_SP1	1.4764e-03	TNGGGCCTNG- -GGGGGNGGGG	
J_MA0146.1_Zfx	2.1698e-03	CNAGGCCCN----- -NAGGCCNNGGCNNN	
J_MA0268.1_ADR1	4.1374e-03	-TNGGGCCTNG KTGGGGN----	



94

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0106.1_TP53	1.8434e-05	CNAGGCCCGN----- ACATGCCCGGGCATGTCCNN	
J_MA0276.1_ASH1	2.6114e-04	CNAGGCCCGN CCYGATNYGG	

Stamp Results

11/22/15

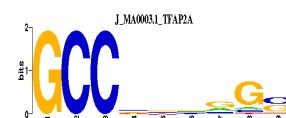
J_MA0450.1_hkb 5.3550e-04

CNAGGCCCGN
TCACGCCCM-

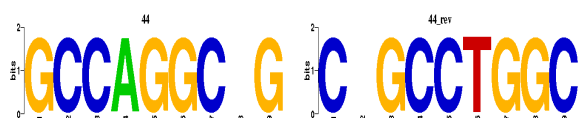
J_MA0039.2_Klf4 8.5792e-04

-CNAGGCCCGN
GCCMCRCCCN-

J_MA0003.1_TFAP2A 2.9843e-03

---NCGGGCCTNG
SCNNNNGGC----

44

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

J_MA0039.2_Klf4 8.0587e-04

GCCAGGCNG-
GCCMCRCCCN

J_MA0429.1_YLL054C 1.1737e-03

GCCAGGCNG
--NCGGCCG

J_MA0361.1_RDS1 1.1799e-03

-CNGCCTGGC
NCGGCCG---

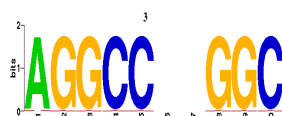
J_MA0144.1_Stat3 2.0068e-03

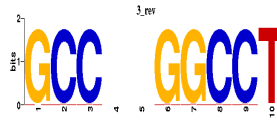
-GCCAGGCNG
TTCCNNGAAG

J_MA0368.1_RIM101 2.1210e-03

CNGCCTGGC-
---CTTGGCR

3



forward*reverse compliment*

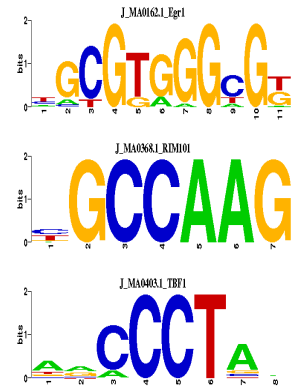
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	7.0739e-08	-AGGCCNNGGC--- NAGGCCNNGGCNNN	J_MA0146.1_Zfx
J_MA0106.1_TP53	1.2987e-03	----GCCNNGGCCT----- ACATGCCCGGGCATGTCCNN	J_MA0106.1_TP53
J_MA0344.1_NHP10	3.0002e-03	AGGCCNNGGC --TCCCCGGN	J_MA0344.1_NHP10
J_MA0039.2_Klf4	8.7629e-03	AGGCCNNGGC NGGGYGKGGC	J_MA0039.2_Klf4
J_MA0097.1_bZIP911	9.1107e-03	AGGCCNNGGC--- -GGCCACGTCAYC	J_MA0097.1_bZIP911

61

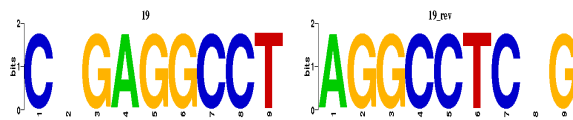
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	1.4499e-08	CTAGGCCTAGGC--- -NAGGCCNNGGCNNN	J_MA0146.1_Zfx
J_MA0003.1_TFAP2A	6.6822e-03	GCCTAGGCCTAG SCNNNNGGC---	J_MA0003.1_TFAP2A

J_MA0162.1_Egr1	6.8178e-03	CTAGGCCTAGGC-- --MCGCCCACGCN
J_MA0368.1_RIM101	7.0638e-03	CTAGGCCTAGGC CTTGCCR-----
J_MA0403.1_TBF1	7.8595e-03	GCCTAGGCCTAG --NTAGGGYT--



19

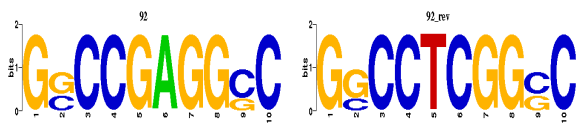
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	1.1715e-09	-AGGCCTCNG---- NAGGCCNNGGCNNN	
J_MA0290.1_DAL81	1.8649e-03	-----CNGAGGCCT-- AATCCCGCCCGCGCTTTT	
J_MA0003.1_TFAP2A	3.0919e-03	--CNGAGGCCT SCNNNNGGC--	
J_MA0150.1_NFE2L2	4.3559e-03	--CNGAGGCCT TGCTNWGTCAY	
J_MA0332.1_MET28	5.3168e-03	AGGCCTCNG ---CCACAG	

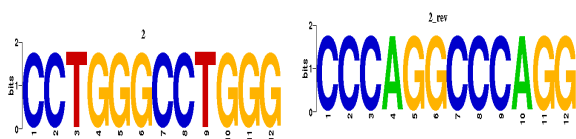
92

Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	1.8674e-07	--GGCCTCGGSC-- NAGGCCNNGGCNNN	
J_MA0003.1_TFAP2A	6.4404e-07	GGCCTCGGSC -SCNNNNGGC	
J_MA0290.1_DAL81	7.8508e-05	-----GSCCGAGGCC--- AATCCCGCCCGCGCTTTT	
J_MA0320.1_IME1	9.2801e-05	GGCCTCGGSC- ---CTCGGCGG	
J_MA0344.1_NHP10	5.7676e-04	GGCCTCGGSC -TCCCCGGN-	



2

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	1.5979e-04	CCCAGGCCcAGG---- --NAGGCCNNGGCNNN	
J_MA0344.1_NHP10	3.2079e-04	-CCCAGGCCcAGG TCCCCGGN-----	

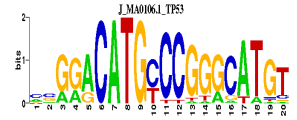
Stamp Results

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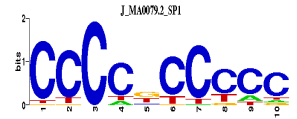
J_MA0450.1_hkb 5.5467e-04

CCCAGGCCCAGG
-TCACGCCCM--

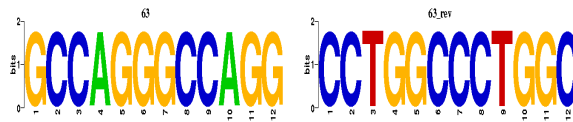
J_MA0106.1_TP53 1.0122e-03

-----CCTGGGCCTGGG---
ACATGCCCGGGCATGTCCNN

J_MA0079.2_SP1 1.2395e-03

CCTGGGCCTGGG
--GGGGNGGGG

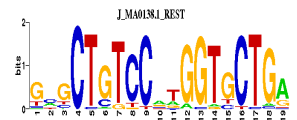
63

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

J_MA0344.1_NHP10 3.2079e-04

CCTGGCCCTGGC
----TCCCCGGN

J_MA0138.1_REST 4.5263e-04

-----GCCAGGGCCAGG--
TCAGCACCWNGGACAGCNC

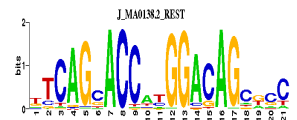
J_MA0213.1_brk 6.5288e-04

GCCAGGGCCAGG
---RGCGCCRS-

J_MA0381.1_SKN7 9.2103e-04

CCTGGCCCTGGC
-NYGGCC-----

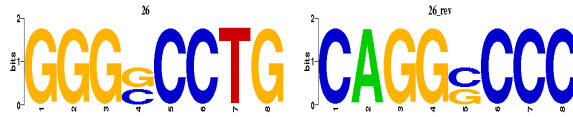
J_MA0138.2_REST 1.1156e-03

-----GCCAGGGCCAGG---
NTCAGCACCNNGGACAGCNC

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Stamp Results

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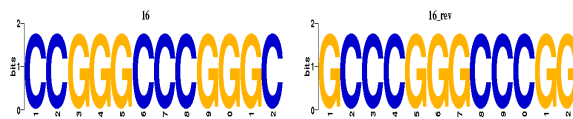


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0450.1_hkb	2.0326e-06	-CAGGSCCC TCACGCCCM	
J_MA0163.1_PLAG1	3.2479e-04	-----CAGGSCCC- CCCCCTTNGGCCCC	
J_MA0347.1_NRG1	1.9124e-03	-----GGGSCCTG----- NNNNNWGGACCCTKNNNNNN	
J_MA0146.1_Zfx	2.5144e-03	CAGGSCCC----- NAGGCCNNGGCNNN	
J_MA0364.1_REI1	3.6331e-03	-CAGGSCCC NCAGGGG--	

16



forward

reverse compliment

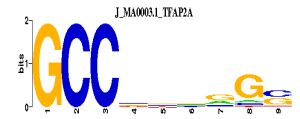
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0106.1_TP53	1.2392e-05	----GCCCGGGCCCGG---- ACATGCCCGGGCATGTCCNN	
J_MA0358.1_PUT3	4.5120e-05	CCGGGCCCCGGGC ---NNCCCCGGG-	

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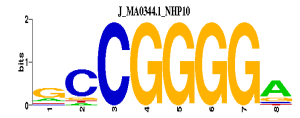
J_MA0003.1_TFAP2A 1.4472e-04

CCGGCCCCGGGC
---SCNNNNGGC



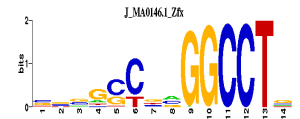
J_MA0344.1_NHP10 3.2079e-04

GCCCCGGCCCCG
TCCCCGNN----

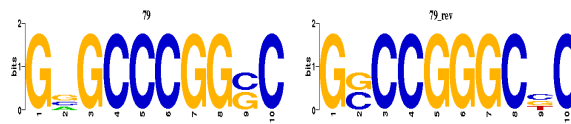


J_MA0146.1_Zfx 3.9186e-04

---GCCCCGGCCCCG
NNGGCCNNGGCCTN-



79



forward

reverse complement

Name

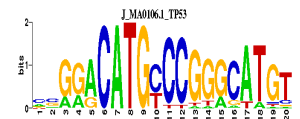
E value

Alignment

Motif

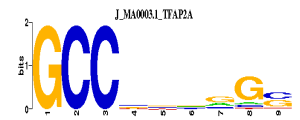
J_MA0106.1_TP53 2.6835e-05

-----GSCCGGGCNC-----
ACATGCCCGGGCATGTCCNN



J_MA0003.1_TFAP2A 1.1733e-04

GNGCCCGGSC
-SCNNNNGGC



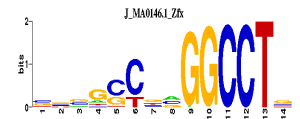
J_MA0358.1_PUT3 1.6305e-04

GNGCCCGGSC
-NNCCGGG-



J_MA0146.1_Zfx 2.3097e-04

-GNGCCCGGSC---
NAGGCCNNGGCNNN



J_MA0344.1_NHP10 2.4314e-04

GNGCCCGGSC
-TCCCCGNN-



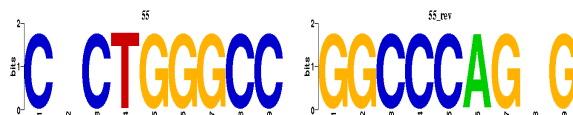
6



forward*reverse compliment*

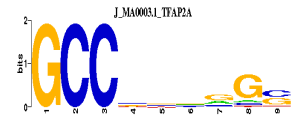
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0267.1_ACE2	4.3113e-04	-GCNGGGCC NGCTGGN--	
J_MA0344.1_NHP10	4.4954e-04	GGCCCNGC TCCCCGGN	
J_MA0163.1_PLAG1	5.3133e-04	----GCNGGGCC-- CCCCCTTNGGCCCC	
J_MA0402.1_SWI5	8.7428e-04	GGCCCNGC- -NACCAGCA	
J_MA0368.1_RIM101	1.8830e-03	GCNGGGCC -CTTGCCR	

55

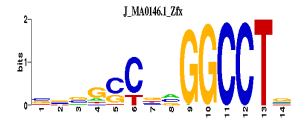
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0163.1_PLAG1	1.1282e-06	---CNCTGGGCC-- CCCCCTTNGGCCCC	
J_MA0154.1_EBF1	7.0742e-05	GGCCCAGNG- NCCCNAGGGA	

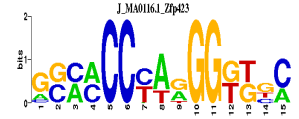
J_MA0003.1_TFAP2A 1.5042e-04

GGCCCAGNG--
-SCNNNNNGGC

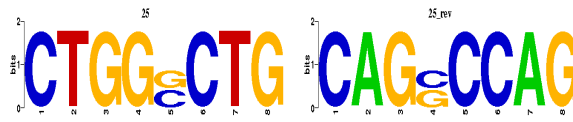
J_MA0146.1_Zfx 1.0479e-03

---CNCTGGGCC--
NNNGCCNNGGCCTN

J_MA0116.1_Zfp423 1.0687e-03

----CNCTGGGCC--
GNMMCCYTRGGKSC

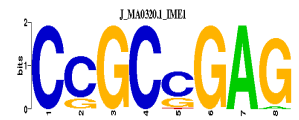
25

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

J_MA0381.1_SKN7 1.6074e-03

CTGGSCTG
NYGGCC--

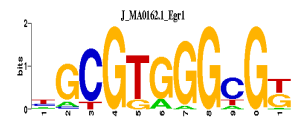
J_MA0320.1_IME1 2.3429e-03

CTGGSCTG
CTCGGCGG

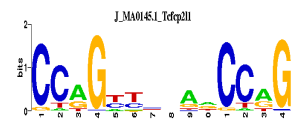
J_MA0368.1_RIM101 7.5136e-03

CTGGSCTG
CTTGGER-

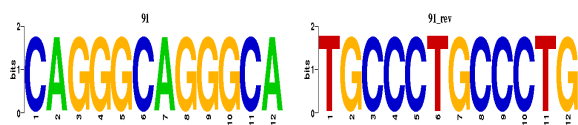
J_MA0162.1_Egr1 1.3433e-02

---CTGGSCTG
NGCGTGGGCGK

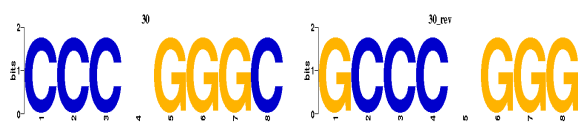
J_MA0145.1_Tcfcp2l1 1.5627e-02

CTGGSCTG-----
CYGGNTNNRNCYGG

91

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0039.2_Klf4	2.0721e-05	TGCCCTGCCCTG -GCCMCRCCTC-	
J_MA0106.1_TP53	9.6365e-05	---TGCCCTGCCCTG--- ACATGCCCGGGCATGTCCNN	
J_MA0112.2_ESR1	1.0326e-04	CAGGGCAGGGCA----- -RGGTCANNNTGACCTNNNNN	
J_MA0079.2_SP1	1.9456e-04	CAGGGCAGGGCA GGGGGNGGGG--	
J_MA0364.1_REI1	1.5812e-03	-CAGGGCAGGGCA NCAGGGG-----	



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*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0003.1_TFAP2A	3.1851e-08	GCCCNNGG- GCCNNNNGS	
J_MA0344.1_NHP10	2.7808e-06	GCCCNNGG TCCCCGGN	

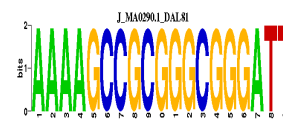
J_MA0358.1_PUT3 2.7995e-06

--CCCNNGGC
NNCCCGGG--



J_MA0290.1_DAL81 1.0688e-05

----GCCNNGG-----
AAAAGCCGCGGGCGGGATT

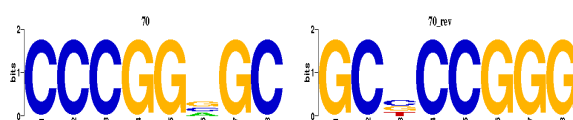


J_MA0399.1_SUT1 4.3088e-05

CCCNNGGC
CGCGGGG--

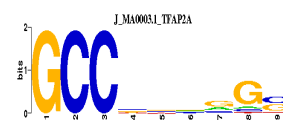


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*forward**reverse compliment**Name**E value**Alignment**Motif*

J_MA0003.1_TFAP2A 2.8011e-07

GCNCCGGG--
SCNNNNNGC



J_MA0344.1_NHP10 2.3151e-05

GCNCCGGG
TCCCCGGN



J_MA0358.1_PUT3 2.3292e-05

--CCCGGNGC
NNCCCGGG--



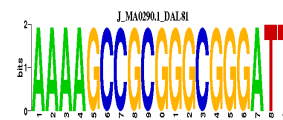
J_MA0399.1_SUT1 3.3001e-05

CCCGGNGC
CGCGGGG--

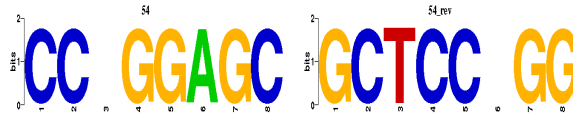


J_MA0290.1_DAL81 7.5170e-05

-----CCCGGNGC-----
AATCCCGCCCGCGGCTTTT

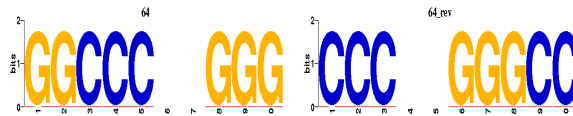


54

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0003.1_TFAP2A	1.8488e-05	-CCN GGAGC GCCNNNNGS	
J_MA0213.1_brk	2.5765e-04	-GCTCCN GG RGC GCCRS-	
J_MA0280.1_CAT8	3.5450e-04	GCTCCN GG -NTCCG-	
J_MA0275.1_AS G1	4.1467e-04	GCTCCN GG -WTCCG-	
J_MA0144.1_Stat3	4.1906e-04	---CCN GGAGC CTTCCN GGAA-	

64

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0163.1_PLA G1	5.2969e-08	--CCCN NGGGCC-- CCCCCTTNGGCCCC	
J_MA0003.1_TFAP2A	1.3529e-05	GGCCCN NGGG -GCCNNNNGS	

J_MA0154.1_EBF1 3.4896e-04

GGCCCNNGGG--
-TCCCTNNGGN



J_MA0290.1_DAL81 5.7927e-03

-----GGCCCNNGGG-----
AATCCCGCCCGCGGCTTTT

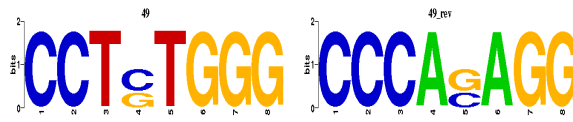


J_MA0381.1_SKN7 1.5531e-02

CCCNNGGGCC--
-----GGCCRN



49

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

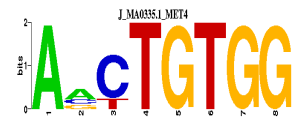
J_MA0332.1_MET28 9.2151e-07

CCCASAGG
-CCACAG-



J_MA0335.1_MET4 8.6387e-05

CCCASAGG-
-CCACAGNT



J_MA0002.2_RUNX1 1.4707e-03

--CCCASAGG-
NAACCACARNN



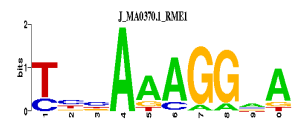
J_MA0081.1_SPIB 1.6016e-03

CCCASAGG--
---ASMGGAA

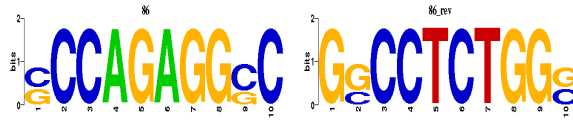


J_MA0370.1_RME1 1.6840e-03

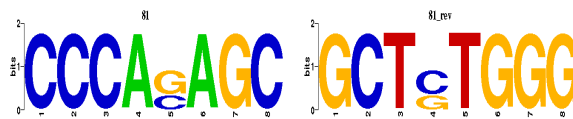
CCCASAGG--
TNNAAGGNA



86

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0139.1_CTCF	2.8521e-04	-----SCCAGAGGCC----- YNNCCASYAGGKGGCRSNN	
J_MA0114.1_HNF4A	5.2892e-04	--SCCAGAGGCC-- RGNNCAAAGKNCA	
J_MA0332.1_MET28	5.3056e-04	GGCCTCTGGS ---CTGTGG--	
J_MA0155.1_INSM1	7.4294e-04	-GGCCTCTGGS- YCCCCCTGRCA	
J_MA0163.1_PLAG1	1.7372e-03	---GGCCTCTGGS- GGGGCCNAAGGGG	



81

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0332.1_MET28	1.8480e-06	CCCAGAGC -CCACAG-	
J_MA0335.1_MET4	1.4333e-04	CCCAGAGC- -CCACAGNT	

J_MA0451.1_kni 8.9415e-04

--CCCAGAGC--
AAANTAGAGCAN



J_MA0003.1_TFAP2A 9.2562e-04

--CCCAGAGC
SCNNNNNGGC

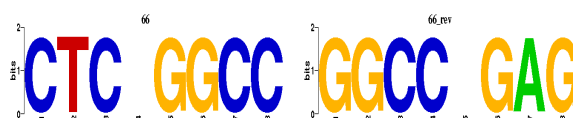


J_MA0002.2_RUNX1 2.1776e-03

--CCCAGAGC--
NAACCACARNN

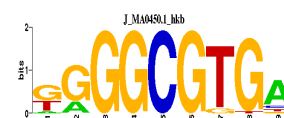


66

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

J_MA0450.1_hkb 4.8794e-05

CTCNGGCC--
-TCACGCCCM



J_MA0146.1_Zfx 7.1277e-04

----CTCNGGCC--
NNNGCCNNGCCTN



J_MA0344.1_NHP10 3.7190e-03

-CTCNGGCC
TCCCCGN-



J_MA0283.1_CHA4 6.7308e-03

-CTCNGGCC
NCTCCGCC-

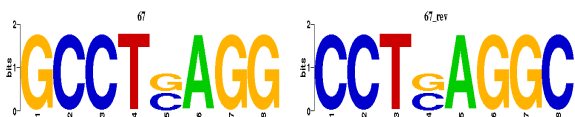


J_MA0410.1_UGA3 6.8697e-03

CTCNGGCC-
-TCCCGCCN

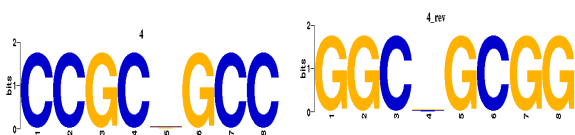


67

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0003.1_TFAP2A	8.3092e-06	—CCTSAGGC SCNNNGGC	
J_MA0332.1_MET28	1.9013e-03	GCCTSAGG —CCACAG—	
J_MA0099.2_AP1	4.0523e-03	—GCCTSAGG TGACTCA—	
J_MA0334.1_MET32	7.5529e-03	CCTSAGGC— —TGTGGCN	
J_MA0146.1_Zfx	7.9627e-03	---CCTSAGGC--- NNNGCCNNGGCCTN	

4

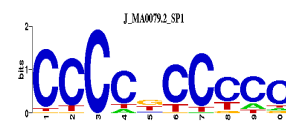
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0320.1_IME1	2.2712e-06	GGCNGCGG CTCGGCGG	
J_MA0443.1_btd	6.8648e-06	—GGCNGCGG— NGKGGGCGGR	

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J_MA0079.2_SP1 1.1267e-05

GGCNGCGG--
GGGGGNGGGG

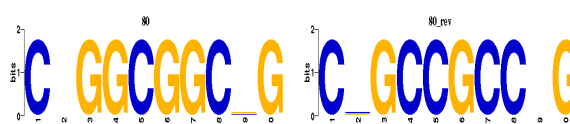
J_MA0373.1_RPN4 1.7621e-05

CCGCNGCC
-CGCCACC

J_MA0394.1_STP1 3.0995e-05

CCGCNGCC
NMGCCGCR

80

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

J_MA0123.1_abi4 7.5955e-06

-CNGGCGGCNG
NGNNGCRSCG-

J_MA0320.1_IME1 2.0795e-05

CNGGCGGCNG
--CTCGGCGG

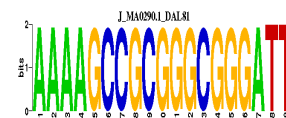
J_MA0373.1_RPN4 5.3180e-05

CNGCCGCCNG
-CGCCACC--

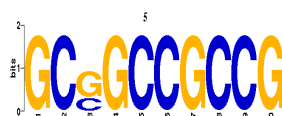
J_MA0443.1_btd 7.0514e-05

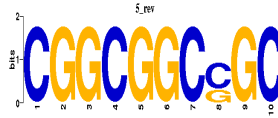
-CNGCCGCCNG
YCCGCCMCN-

J_MA0290.1_DAL81 9.8421e-05

-CNGCCGCCNG-----
AATCCCGCCCGCGGCTTTT

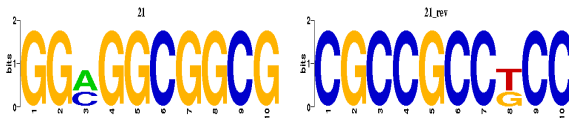
5



forward*reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0361.1_RDS1	2.6900e-06	CGGCGGCCGC --NCGGCCG--	
J_MA0429.1_YLL054C	3.3116e-06	GCGGCCGCCG NCGGCCG---	
J_MA0412.1_UME6	2.0220e-05	--GCGGCCGCCG-- AwwTAGCCGCCSA	
J_MA0320.1_IME1	2.4585e-05	--CGGCGGCCGC CTCGGCGG----	
J_MA0123.1_abi4	3.8672e-04	GCGGCCGCCG NGNNGCRSCG	

21

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	8.0645e-07	GGMGGCGGCG GGGGNGGGG	
J_MA0123.1_abi4	9.6362e-06	GGMGGCGGCG NGNNGCRSCG	

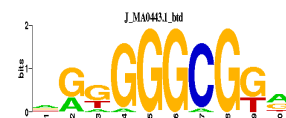
J_MA0373.1_RPN4 2.7694e-05

CGCCGCKCC
CGCCACC---

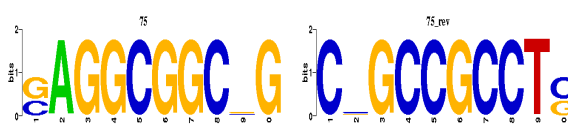
J_MA0394.1_STP1 7.3715e-05

-CGCCGCKCC
NMGCCGCR---

J_MA0443.1_btd 1.1040e-04

CGCCGCKCC-
-YCCGCCCMCN

75

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

J_MA0320.1_IME1 2.0795e-05

SAGGCGGCNG
--CTCGGCGG

J_MA0373.1_RPN4 5.3180e-05

CNGCCGCCTS
-CGCCACC--

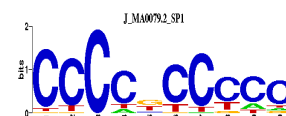
J_MA0123.1_abi4 5.3765e-05

-SAGGCGGCNG
NGNNGCRSCG-

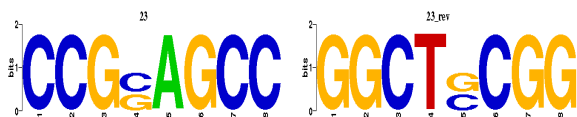
J_MA0443.1_btd 7.0514e-05

-CNGCCGCCTS
YCCGCCCMCN-

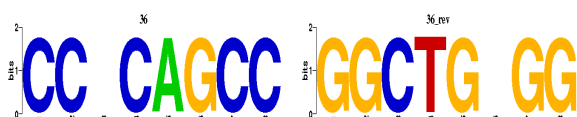
J_MA0079.2_SP1 1.1372e-04

SAGGCGGCNG--
--GGGGGNGGGG

23

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0404.1_TBS1	2.7324e-04	CCGSAGCC- -CGGNTCCG	
J_MA0048.1_NHLH1	4.5737e-04	----GGCTSCGG NCGCAGCTGCGN	
J_MA0280.1_CAT8	6.0581e-04	GGCTSCGG --NTCCGG	
J_MA0275.1_ASQ1	7.0433e-04	GGCTSCGG --WTCCGG	
J_MA0123.1_abi4	8.1560e-04	---GGCTSCGG NGNNGCRSCG-	



36

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	2.7535e-04	----GGCTGNNG NCGCAGCTGCGN	
J_MA0344.1_NHP10	5.6906e-04	GGCTGNNG- -NCCGGGGA	

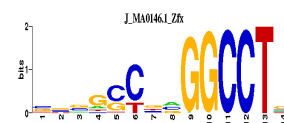
Stamp Results

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J_MA0146.1_Zfx 5.7693e-04

--GGCTGNGG----

NAGGCCNNGGCNNN



J_MA0332.1_MET28 2.0094e-03

CCNCAGCC

CCACAG--



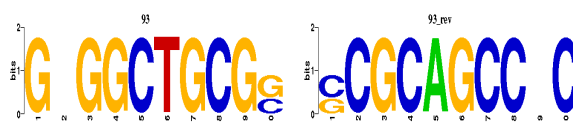
J_MA0039.2_Klf4 2.7140e-03

-CCNCAGCC-

GCCMCRCNN



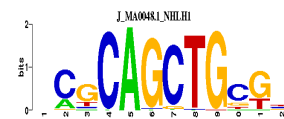
93

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

J_MA0048.1_NHLH1 7.6988e-07

--GNGGCTGCGS

NCGCAGCTGCGN



J_MA0123.1_abi4 6.4937e-05

-GNGGCTGCGS

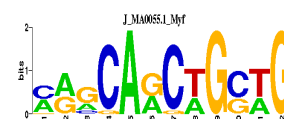
NGNNGCRSCG-



J_MA0055.1_Myf 1.6427e-03

SCGCAGCCNC--

CAGCAGYTGCYK



J_MA0332.1_MET28 2.0436e-03

SCGCAGCCNC

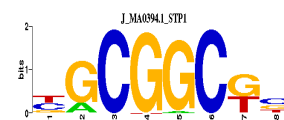
CCACAG----



J_MA0394.1_STP1 2.2916e-03

SCGCAGCCNC-

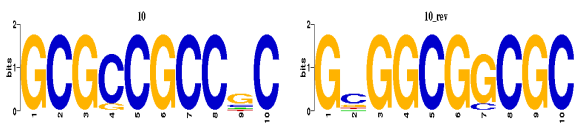
---NMGCCGCR



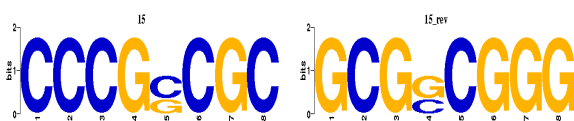
10

Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0123.1_abi4	1.1209e-06	GCGCCGCCGC— —CGSYGCNNCN	J_MA0123.1_abi4
J_MA0412.1_UME6	1.7116e-05	---GCGCCGCCGC AWWTAGCCGCCSA	J_MA0412.1_UME6
J_MA0320.1_IME1	2.6651e-05	—GCGGCGGCGC CTCGGCGG---	J_MA0320.1_IME1
J_MA0373.1_RPN4	2.9204e-05	GCGCCGCCGC —CGCCACC--	J_MA0373.1_RPN4
J_MA0213.1_brk	6.4271e-05	—GCGCCGCCGC RGCGCCRS---	J_MA0213.1_brk



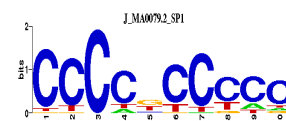
15

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0456.1_opa	5.4275e-06	--GCGSCGGG-- CNGCGGGGGGKC	J_MA0456.1_opa
J_MA0320.1_IME1	1.2273e-05	—GCGSCGGG CTCGGCGG—	J_MA0320.1_IME1

J_MA0079.2_SP1 1.5002e-05

—GCGSCGG—
GGGGGNGGGG



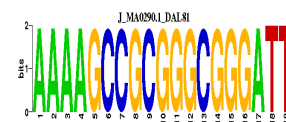
J_MA0410.1_UGA3 1.6933e-05

—CCCGSCGC
TCCCGCCN—

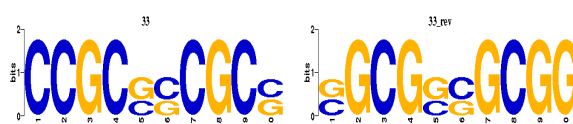


J_MA0290.1_DAL81 2.1368e-05

-----CCCGSCGC-----
AATCCCGCCCGCGGCTTTT



33

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

J_MA0399.1_SUT1 6.9306e-06

SGCGSSGCGG
CGCGGGG---



J_MA0320.1_IME1 1.0185e-04

CCGCSSCGCS
CCGCCGAG--



J_MA0079.2_SP1 2.0628e-04

SGCGSSGCGG
GGGGGNGGGG



J_MA0443.1_btd 4.0115e-04

SGCGSSGCGG—
—NGKGGGCGGR



J_MA0394.1_STP1 5.0406e-04

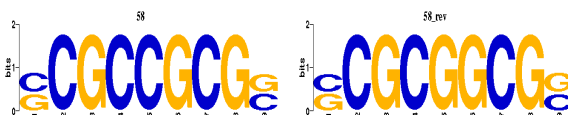
CCGCSSCGCS
--NMGCCGCR



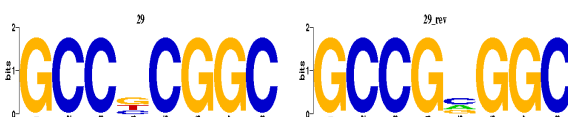
58

Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0394.1_STP1	1.0722e-06	SCGCCGCGS NMGCCGCR-	
J_MA0320.1_IME1	1.1174e-06	SCGCCGCGS CCGCCGAG-	
J_MA0399.1_SUT1	7.9749e-06	SCGCGGCGS -CGCGGG-	
J_MA0353.1_PDR3	5.6766e-05	SCGCCGCGS- --TCCGCGGA	
J_MA0352.1_PDR1	6.3523e-05	SCGCCGCGS- --TCCGCGGN	



29

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	7.4298e-09	---GCCNCGGC--- NAGGCCNNGCINN	
J_MA0344.1_NHP10	1.4951e-06	GCCGNGGC NCCGGGGA	

J_MA0290.1_DAL81 3.2616e-06

-----GCCNCGGC-----
 AATCCCGCCCGCGGCTTTT



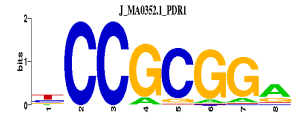
J_MA0353.1_PDR3 8.1843e-06

GCCNCGGC
 TCCGCGGA

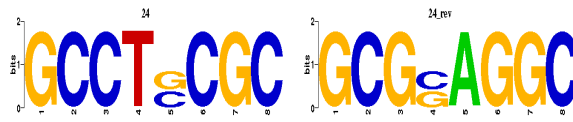


J_MA0352.1_PDR1 8.3083e-06

GCCNCGGC
 TCCGCGGN



24

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

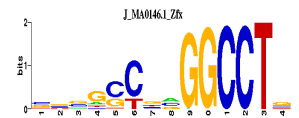
J_MA0283.1_CHA4 6.8457e-05

GCCTSCGC-
 -NCTCCGCC



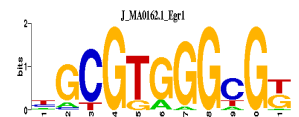
J_MA0146.1_Zfx 7.3598e-04

---GCCTSCGC---
 NAGGCCNNGGCNNN



J_MA0162.1_Egr1 8.0532e-04

--GCCTSCGC-
 MCGCCCACGCN



J_MA0090.1_TEAD1 1.0853e-03

-----GCCTSCGC
 YACATTCWSNG-

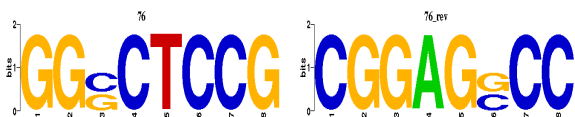


J_MA0131.1_MIZF 1.8210e-03

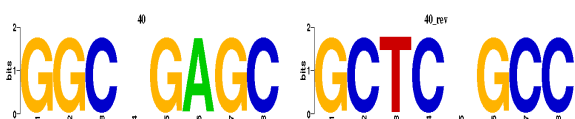
--GCCTSCGC
 NAACGTCCGC



76

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0123.1_abi4	1.5096e-04	--GGSCTCCG NGNNGCRSCG	
J_MA0404.1_TBS1	2.7251e-04	CGGAGSCC CGNTCCG	
J_MA0304.1_GCR1	3.0095e-04	GGSCTCCG GGCTTCCA	
J_MA0311.1_HAL9	3.5636e-04	GGSCTCCG ---TTCCG	
J_MA0354.1_PDR8	6.2682e-04	GGSCTCCG- -ATCTCCGN	



40

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	1.9988e-08	GGCNGAGC GGCGGAGN	
J_MA0320.1_IME1	6.5028e-06	GCTCNGCC- -CTCGGCGG	

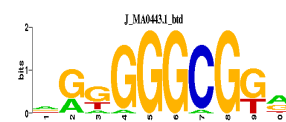
J_MA0039.2_Klf4 2.8178e-04

--GGCNGAGC
 NGGGYGKGGC



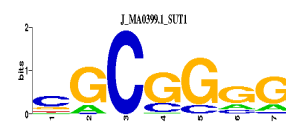
J_MA0443.1_btd 5.4335e-04

GCTCNGCC----
 --YCCGCCCMCN

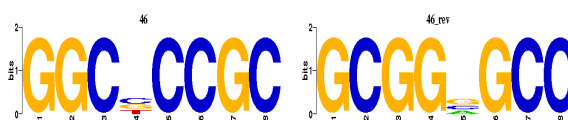


J_MA0399.1_SUT1 9.2786e-04

GCTCNGCC
 -CCCCGCG

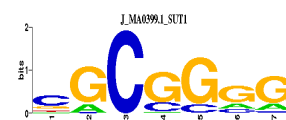


46

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

J_MA0399.1_SUT1 1.7018e-06

GGCNCCGC--
 --CCCCGCG



J_MA0213.1_brk 1.3438e-05

GCGGNGCC
 SYGGCGCY



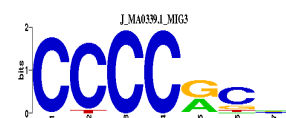
J_MA0338.1_MIG2 1.5761e-05

-GCGGNGCC
 NGYGGG--



J_MA0339.1_MIG3 1.8924e-05

-GCGGNGCC
 NGYGGG--



J_MA0039.2_Klf4 7.9534e-05

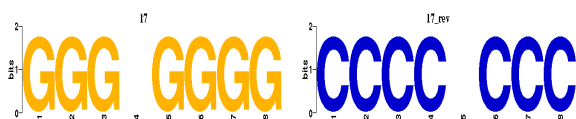
GGCNCCGC--
 -GCCMCRCNN



17

Stamp Results

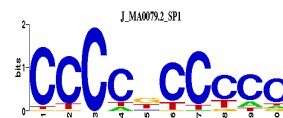
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*forward**reverse compliment**Name**E value**Alignment**Motif*

J_MA0079.2_SP1

3.1986e-11

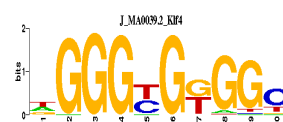
--GGGNGGGG
GGGGNGGGG



J_MA0039.2_Klf4

1.5911e-09

---CCCNCCC--
GCCMCRCN



J_MA0339.1_MIG3

3.7891e-06

CCCNCCC
CCCCRCN--



J_MA0431.1_YML081W 6.0813e-06

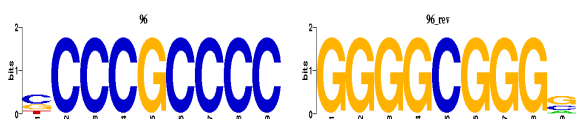
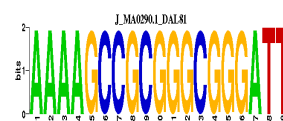
GGGNGGGG--
NWNNGGGGN



J_MA0290.1_DAL81

6.1182e-06

---CCCNCCC-----
AATCCCGCCCGCGGCTTTT



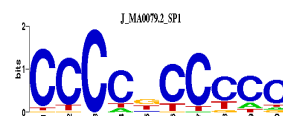
96

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

J_MA0079.2_SP1

4.8606e-13

NCCGCCCC--
CCCNCCCC



J_MA0443.1_btd

7.3799e-08

--GGGGCGGGN
NGKGGGCGGR--



J_MA0039.2_Klf4 1.7266e-07

GGGCGGGN-
NNGGYGKGGC

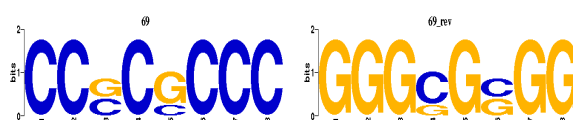
J_MA0450.1_hkb 7.6725e-07

NCCCGCCCC
TCACGCCCM

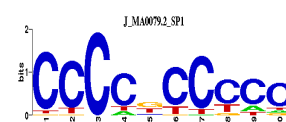
J_MA0079.1_SP1 2.8516e-06

GGGCGGGN-
NNGGCNNGGT

69

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

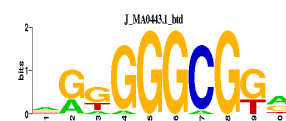
J_MA0079.2_SP1 7.7990e-09

--GGGCGSGG
GGGGGNGGGG

J_MA0039.2_Klf4 1.7105e-06

-CCSCGCCC-
GCCMCRCNN

J_MA0443.1_btd 2.3126e-06

-CCSCGCCC-
YCCGCCCMCN

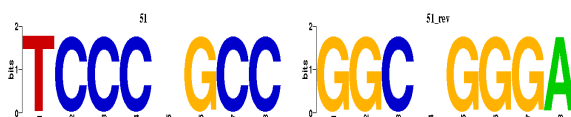
J_MA0079.1_SP1 2.9507e-06

-CCSCGCCC-
ACCCNGCCNN

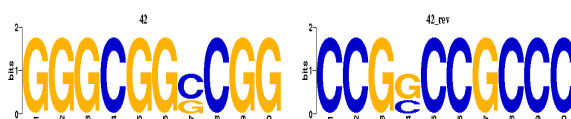
J_MA0399.1_SUT1 7.9863e-06

CCSCGCCC
CCCCGCG-

51

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	4.7571e-08	TCCCNGCC TCCCCGGN	
J_MA0399.1_SUT1	8.0266e-07	TCCCNGCC -CCCCGCG	
J_MA0079.2_SP1	1.5238e-06	---GGCNGGGA GGGGGNGGGG-	
J_MA0338.1_MIG2	4.7121e-06	GGCNGGGA NGYGGGG-	
J_MA0283.1_CHA4	6.1137e-06	TCCCNGCC NCTCCGCC	



42

*forward**reverse compliment*

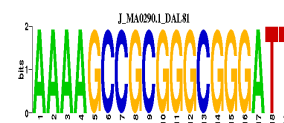
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0361.1_RDS1	2.3235e-06	GGGCGGCCGG ---CGGCCGN	
J_MA0429.1_YLL054C	4.5283e-06	CCGGCCGCCC NCGGCCG---	

Stamp Results

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J_MA0290.1_DAL81 1.6121e-05

-----CCGGCCGCCC-----
AATCCCGCCCGCGGCTTTT



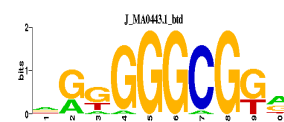
J_MA0410.1_UGA3 2.3935e-04

CCGGCCGCCC
--TCCCGCCN

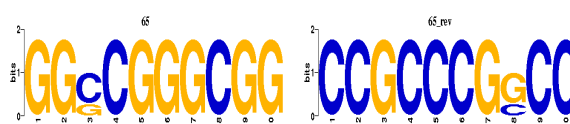


J_MA0443.1_btd 4.0348e-04

CCGGCCGCCC---
---YCCGCCCMCN

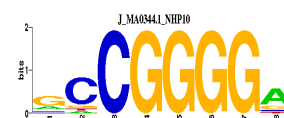


65

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

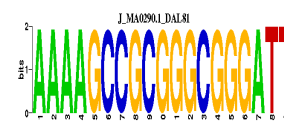
J_MA0344.1_NHP10 2.3324e-05

CCGCCCCGCC
-TCCCCGGN-



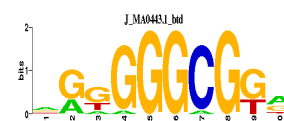
J_MA0290.1_DAL81 4.2858e-05

-----CCGCCCCGCC-----
AATCCCGCCCGCGGCTTTT



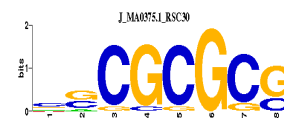
J_MA0443.1_btd 4.0348e-04

-CCGCCCCGCC
YCCGCCCMCN-



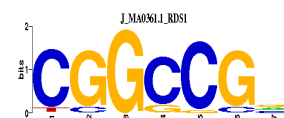
J_MA0375.1_RSC30 5.3618e-04

CCGCCCCGCC
-CGCGGSN-

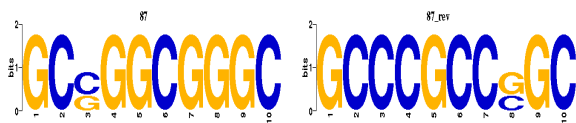


J_MA0361.1_RDS1 8.1475e-04

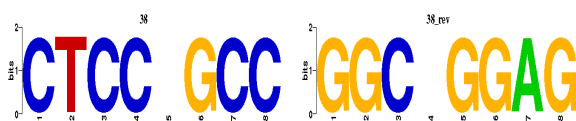
CCGCCCCGCC-
----NCGGCCG



87

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0290.1_DAL81	9.3861e-09	--GCCCCGCCSGC----- AATCCCGCCCCGCGCTTTT	
J_MA0456.1_opa	1.5632e-06	--GCSGGCGGGC CNGCGGGGGGKC	
J_MA0079.2_SP1	2.4518e-05	GCSGGCGGGC GGGGGNGGGG	
J_MA0410.1_UGA3	3.3192e-05	GCCCCGCCSGC TCCCGCCN--	
J_MA0320.1_IME1	9.8417e-05	GCSGGCGGGC CTCGGCGG--	



38

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0410.1_UGA3	5.7452e-07	CTCCNGCC-- -TCCCGCCN	
J_MA0290.1_DAL81	6.4419e-05	-----GGCNGGAG-- AAAAGCCGCGGGCGGGATT	

J_MA0344.1_NHP10 1.2656e-03

—CTCCNGCC
TCCCCGGN—



J_MA0450.1_hkb 1.3787e-03

--GGCNGGAG
KGGGCGTGA—



J_MA0267.1_ACE2 1.8219e-03

GGCNGGAG
NGCTGGN—



41

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

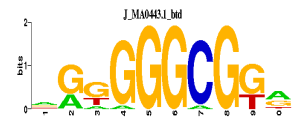
J_MA0283.1_CHA4 1.9671e-08

GGSCGGAG—
—GGCGGAGN



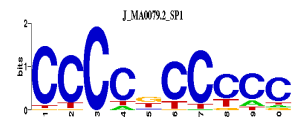
J_MA0443.1_btd 1.2598e-06

CTCCGSCC—
—YCCGCCCMCN



J_MA0079.2_SP1 1.3429e-05

--GGSCGGAG
GGGGGNGGGG



J_MA0039.2_Klf4 2.2637e-04

—CTCCGSCC—
GCCMCRCN



J_MA0344.1_NHP10 3.2490e-04

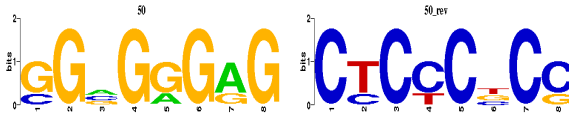
—CTCCGSCC
TCCCCGGN—



50

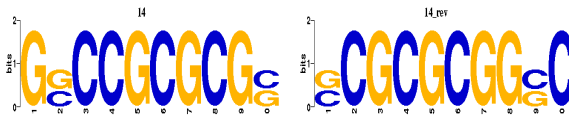
Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0410.1_UGA3	2.8267e-07	CTCCCNCC— —TCCCGCCN	J_MA0410.1_UGA3
J_MA0079.2_SP1	5.9045e-05	---GGNGGGAG GGGGGNGGGG—	J_MA0079.2_SP1
J_MA0290.1_DAL81	8.4733e-05	-----GGNGGGAG— AAAAGCCGCGGGCGGGATT	J_MA0290.1_DAL81
J_MA0140.1_Tal1_Gata	3.5768e-04	-----CTCCCNCC----- NTTATCTNNNNNNNNNCNN	J_MA0140.1_Tal1_Gata
J_MA0068.1_Pax4	1.2248e-03	GGNGGGAG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY	J_MA0068.1_Pax4

14

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0375.1_RSC30	3.2899e-08	GSCCGCGCGS— ---CGCGCGSN	J_MA0375.1_RSC30
J_MA0399.1_SUT1	9.7539e-06	SCGCGCGGSC —CGCGGGG—	J_MA0399.1_SUT1

J_MA0290.1_DAL81 5.4296e-05

---GSCCGCGCGS-----
 AAAAGCCGCGGGCGGGATT



J_MA0162.1_Egr1 8.1124e-04

--GSCCGCGCGS
 MCGCCACGCN--

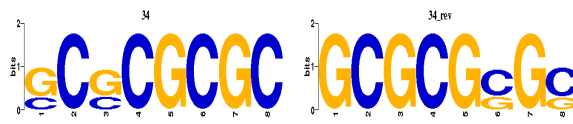


J_MA0374.1_RSC3 8.4148e-04

GSCCGCGCGS
 --NNNCGCG--

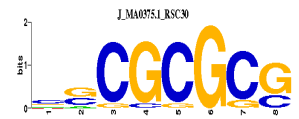


34

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

J_MA0375.1_RSC30 5.4253e-09

GCGCGCGC-
 -CGCGCGSN



J_MA0399.1_SUT1 2.1918e-05

GCGCGCGC
 -CGCGGGG



J_MA0449.1_h 4.4849e-05

-GCGCGCGC-
 GNCACGTGNC



J_MA0405.1_TEA1 9.8782e-05

--GCGCGCGC
 NWGYSCGC--

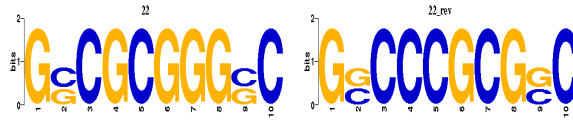


J_MA0290.1_DAL81 1.4768e-04

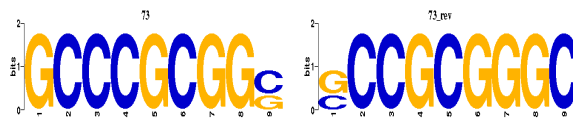
-----GCGCGCGC-----
 AATCCCGCCCGCGGCTTTT



22

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0290.1_DAL81	1.0267e-08	-----GSCCCGCGSC----- AATCCCGCCCGCGCTTTT	
J_MA0399.1_SUT1	1.2565e-07	GSCCCGCGSC -CCCGCG--	
J_MA0449.1_h	1.1520e-06	GSCGCGGGSC GNCACGTGNC	
J_MA0003.1_TFAP2A	1.6668e-06	GSCCCGCGSC -SCNNNGGC	
J_MA0353.1_PDR3	7.7747e-05	GSCGCGGGSC TCCGCGGA--	



73

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0290.1_DAL81	1.0603e-11	-----GCCCGCGGS----- AATCCCGCCCGCGCTTTT	
J_MA0003.1_TFAP2A	1.0802e-08	SCCGCGGGC SCNNNGGC	

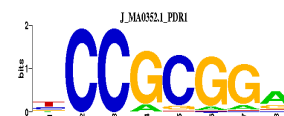
J_MA0399.1_SUT1 1.7005e-06

SCCGCGGGC
--CGCGGGG

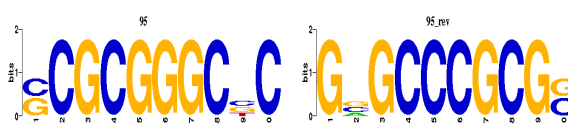
J_MA0353.1_PDR3 4.8477e-06

GCCCCGCGS
-TCCGCGGA

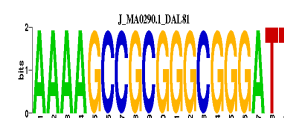
J_MA0352.1_PDR1 5.5059e-06

GCCCCGCGS
-TCCGCGGN

95

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

J_MA0290.1_DAL81 8.6561e-08

----GNGCCCGCGS----
AATCCCGCCCCGCGCTTTT

J_MA0399.1_SUT1 3.6746e-06

GNGCCCGCGS
--CCCCGCG--

J_MA0162.1_Egr1 3.6922e-05

GNGCCCGCGS-
MCGCCACGCN

J_MA0375.1_RSC30 9.4942e-05

GNGCCCGCGS-
--CGCGCGSN

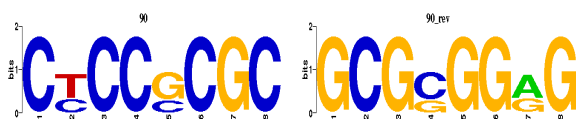
J_MA0353.1_PDR3 1.5027e-04

GNGCCCGCGS-
---TCCGCGGA

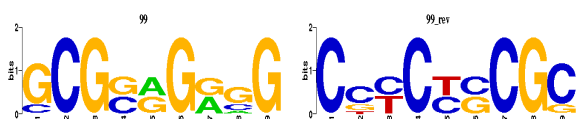
90

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0399.1_SUT1	2.0903e-08	CTCCGCGC CCCCGCG-	J_MA0399.1_SUT1
J_MA0352.1_PDR1	3.9760e-06	-GCGCGGAG NCCGCGGA-	J_MA0352.1_PDR1
J_MA0283.1_CHA4	4.3499e-06	-CTCCGCGC NCTCCGCC-	J_MA0283.1_CHA4
J_MA0456.1_opa	5.4487e-06	--GCGCGGAG-- CNGCGGGGGGKC	J_MA0456.1_opa
J_MA0320.1_IME1	9.7906e-06	GCGCGGAG CCGCCGAG	J_MA0320.1_IME1



99

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0456.1_opa	1.0245e-06	--GCGSRGRGG-- CNGCGGGGGGKC	J_MA0456.1_opa
J_MA0399.1_SUT1	1.2587e-05	GCGSRGRGG -CGCGGGG-	J_MA0399.1_SUT1

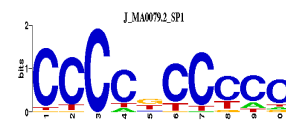
J_MA0283.1_CHA4 1.3857e-04

CCYCYSCGC-
--NCTCCGCC

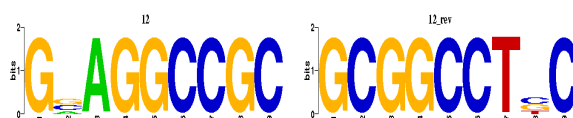
J_MA0341.1_MSN2 1.4524e-04

CCYCYSCGC
CCCC-----

J_MA0079.2_SP1 2.4782e-04

-GCGSRGRGG
GGGGNGGGG

12

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

J_MA0361.1_RDS1 4.4628e-04

GNAGGCCGC
-NCGGCCG-

J_MA0429.1_YLL054C 5.2516e-04

GNAGGCCGC
-NCGGCCG-

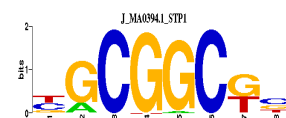
J_MA0146.1_Zfx 8.0019e-04

GNAGGCCGC-----
-NAGGCCNNGGCNNN

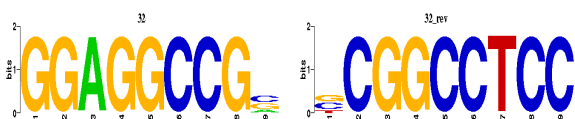
J_MA0304.1_GCR1 1.1029e-03

GCGGCCTNC-
--GGCTTCCA

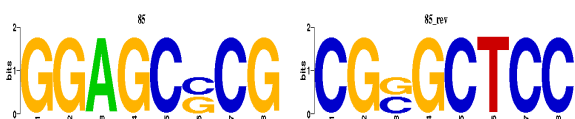
J_MA0394.1_STP1 1.7648e-03

GNAGGCCGC-
--NMGCCGCR

32

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0304.1_GCR1	1.1111e-04	NCGGCCTCC- --GGCTTCCA	
J_MA0146.1_Zfx	2.6802e-04	GGAGGCCGN----- -NAGGCCNNGGCNNN	
J_MA0361.1_RDS1	4.4628e-04	GGAGGCCGN -NCGGCCG-	
J_MA0429.1_YLL054C	5.2516e-04	GGAGGCCGN -NCGGCCG-	
J_MA0079.2_SP1	5.6515e-04	GGAGGCCGN- GGGGGNGGGG	



85

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0374.1_RSC3	2.2042e-03	GGAGCSCG -NNNCGCG	
J_MA0375.1_RSC30	2.2538e-03	CGSGCTCC CGCGGSN	

J_MA0405.1_TEA1 3.5307e-03

GGAGCSCG--
-NWGYSCGC

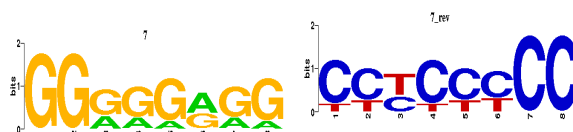
J_MA0260.1_che-1 4.1797e-03

CGSGCTCC
--GGYTTC

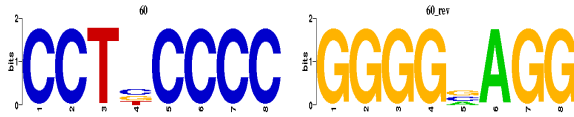
J_MA0384.1_SNT2 6.0764e-03

-CGSGCTCC--
NNGCGCTAYCA

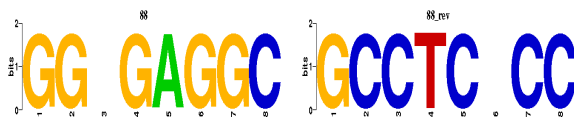
7

*forward**reverse compliment*

Name	E value	Alignment	Motif
J_MA0079.2_SP1	9.1807e-09	GGGGGRGG-- GGGGNGGGG	
J_MA0068.1_Pax4	1.6062e-05	GGGGGRGG----- GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY	
J_MA0443.1_btd	4.1647e-05	-CCYCCCCC- YCCGCCCMCN	
J_MA0283.1_CHA4	1.2452e-04	CCYCCCCC NCTCCGCC	
J_MA0456.1_opa	2.2225e-04	--GGGGGRGG-- CNGCGGGGGKGC	

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	7.6265e-09	GGGNGAGG-- GGGGNGGGG	
J_MA0443.1_btd	1.8481e-05	-CCTNCCCC- YCCGCCMCN	
J_MA0140.1_Tal1_Gata	3.1647e-04	----CCTNCCCC----- NTTATCTNNNNNNNNNCNN	
J_MA0056.1_MZF1_1-4	3.4867e-04	CCTNCCCC --TCCCCN	
J_MA0283.1_CHA4	4.2471e-04	CCTNCCCC NCTCCGCC	



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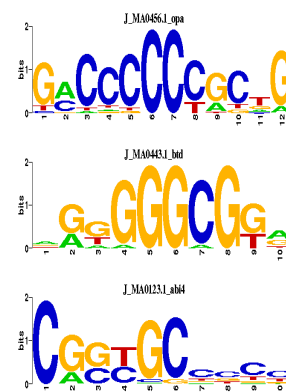
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.6937e-06	-GGNGAGGC- GGGGNGGGG	
J_MA0056.1_MZF1_1-4	2.9077e-05	GCCTCNCC- ---TCCCCN	

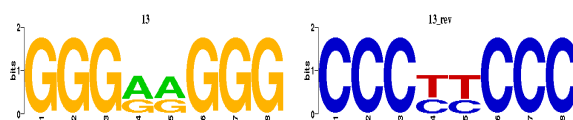
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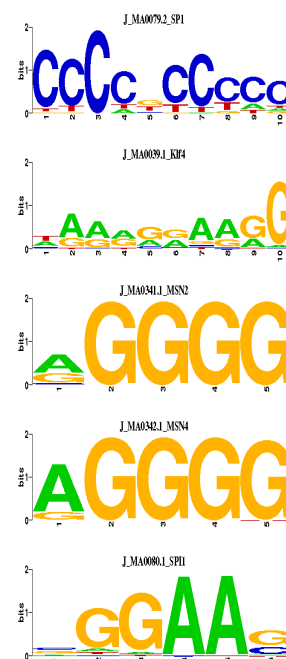
J_MA0456.1_opa	7.2108e-05	----GGNGAGGC CNGCGGGGGGKC
J_MA0443.1_btd	2.8738e-04	GCCTCNCC-- YCCGCCCMCN
J_MA0123.1_abi4	6.4970e-04	-GGNGAGGC- NGNNGCRSCG



13

*forward**reverse compliment*

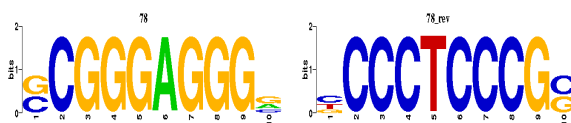
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	2.5402e-07	-GGGARGGG- GGGGGNNGGG	
J_MA0039.1_Klf4	6.7874e-05	CCCYTCCC--- -CCTTTYTTN	
J_MA0341.1_MSN2	2.5821e-04	CCCYTCCC CCCCT---	
J_MA0342.1_MSN4	4.3622e-04	GGGARGGG ---AGGGG	
J_MA0080.1_SPI1	6.1242e-04	CCCYTCCC --STTCN	



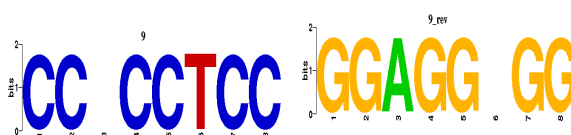
78

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	7.1020e-08	SCGGGAGGGN GGGGGNGGGG	
J_MA0290.1_DAL81	3.1871e-06	--NCCCTCCCGS----- AATCCCGCCCGCGGCTTTT	
J_MA0366.1_RGM1	2.1610e-05	NCCCTCCCGS CCCCT-----	
J_MA0456.1_opa	2.4397e-05	--SCGGGAGGGN CNGCGGGGGGKC	
J_MA0323.1_IXR1	4.5393e-05	--NCCCTCCCGS--- CMCCGCTTCCGGYTT	



9

*forward**reverse compliment*

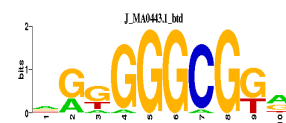
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.1280e-07	GGAGNGG-- GGGGGNGGGG	
J_MA0283.1_CHA4	1.3187e-04	CCNCCTCC NCTCCGCC	

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J_MA0443.1_btd 1.5341e-04

—CCNCCTCC—
YCCGCCCMCN



J_MA0062.1_GABPA 8.5870e-04

CCNCCTCC—
—SNCTTCCGGT

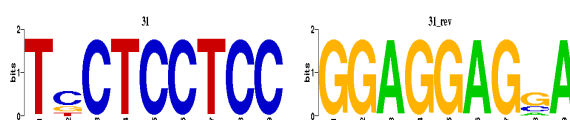


J_MA0373.1_RPN4 1.0052e-03

CCNCCTCC
—CGCCACC



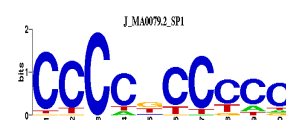
31

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

J_MA0079.2_SP1

1.3224e-05

GGAGGAGSA—
GGGGGNGGGG



J_MA0283.1_CHA4

1.0413e-04

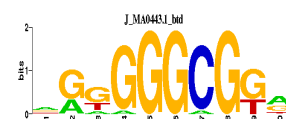
TSCTCCTCC
—NCTCCGCC



J_MA0443.1_btd

3.6789e-04

TSCTCCTCC—
YCCGCCCMCN



J_MA0057.1_MZF1_5-13 3.8235e-04

—TSCTCCTCC
NTNCCCCTMN



J_MA0062.1_GABPA

1.3055e-03

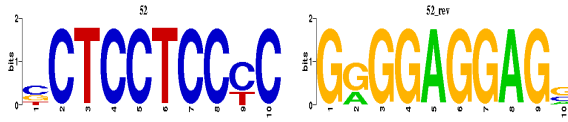
TSCTCCTCC—
—SNCTTCCGGT



52

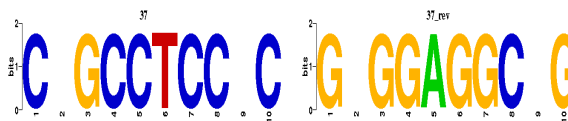
Stamp Results

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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.9275e-07	-GGGGAGGAGN GGGGGNGGGG-	
J_MA0443.1_btd	6.2296e-05	NCTCCTCCCC-- --YCCGCCCMCN	
J_MA0056.1_MZF1_1-4	1.1067e-04	NCTCCTCCCC- -----TCCCN	
J_MA0283.1_CHA4	2.2440e-04	NCTCCTCCCC NCTCCGCC--	
J_MA0068.1_Pax4	9.3968e-04	-GGGGAGGAGN----- GKRNNNNKNNNNNNNNNNNNKNNWWWTTTY	

37

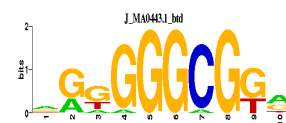
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0162.1_Egr1	1.1359e-04	CNGCCTCCNC- MCGCCCACGCN	
J_MA0079.2_SP1	1.7412e-04	GNGGAGGCNG-- --GGGGGNGGGG	

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J_MA0443.1_btd 2.4250e-04

GNGGAGGCNG--
-NGKGGGCGGR

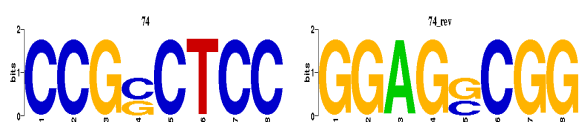
J_MA0323.1_IXR1 3.2650e-04

--CNGCCTCCNC---
CMCCGCTTCCGGYTT

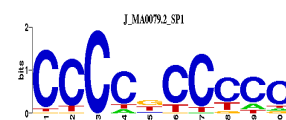
J_MA0373.1_RPN4 4.5564e-04

CNGCCTCCNC
-CGCCACC--

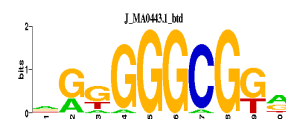
74

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

J_MA0079.2_SP1 2.4036e-06

GGAGSCGG--
GGGGNGGGG

J_MA0443.1_btd 6.1492e-06

-CCGSCTCC-
YCCGCCMCN

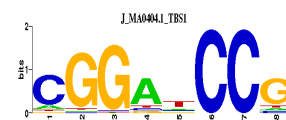
J_MA0373.1_RPN4 3.0045e-05

CCGSCTCC
-CGCCACC

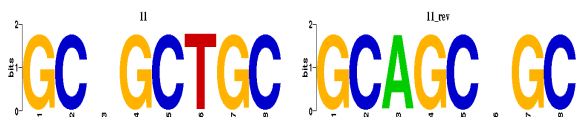
J_MA0323.1_IXR1 1.2296e-04

--CCGSCTCC-----
CMCCGCTTCCGGYTT

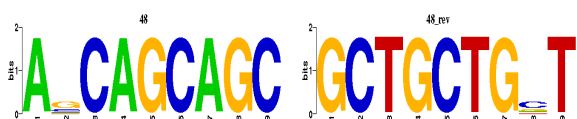
J_MA0404.1_TBS1 4.7878e-04

-GGAGSCGG
CGGNTCCG-

11

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	2.8957e-07	--GCNGCTGC-- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	4.5314e-07	--GCNGCTGC-- NCGCAGCTGCGN	
J_MA0454.1_odd	2.3138e-04	--GCNGCTGC-- NTGCTACTGTN	
J_MA0287.1_CUP2	6.8232e-04	----GCNGCTGC CWTTTYTGCTG--	
J_MA0402.1_SWI5	1.0612e-03	--GCAGCNGC NACCAGCA--	



48

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	4.0278e-08	--GCTGCTGNT-- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	5.1114e-06	--GCTGCTGNT-- NCGCAGCTGCGN	

J_MA0402.1_SWI5 2.1399e-05

—ANCAGCAGC
NACCAGCA—



J_MA0454.1_odd 6.6772e-05

GCTGCTGNT---
-NTGCTACTGTN

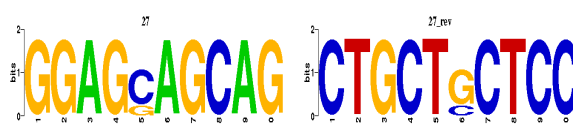


J_MA0287.1_CUP2 3.1341e-03

----GCTGCTGNT
CWTTTYTGCTG--

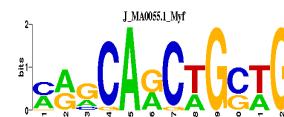


27

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

J_MA0055.1_Myf 2.8144e-05

CTGCTGCTCC--
CAGCAGYTGCTK



J_MA0402.1_SWI5 2.2390e-04

GGAGCAGCAG
-NACCAGCA-



J_MA0454.1_odd 3.8793e-04

CTGCTGCTCC-
NTGCTACTGTN



J_MA0123.1_abi4 1.1238e-03

-GGAGCAGCAG
NGNNGCRSCG-

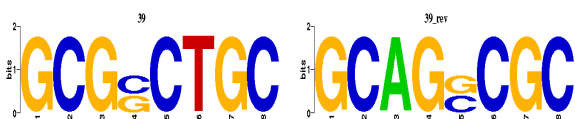


J_MA0326.1_MAC1 3.5235e-03

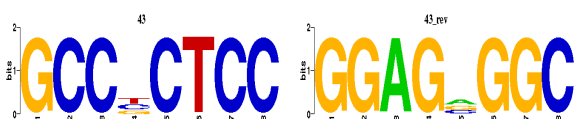
CTGCTGCTCC
--TTTGCTCR



39

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0048.1_NHLH1	1.1427e-05	--GCGSCTGC-- NCGCAGCTGCGN	
J_MA0055.1_Myf	7.1584e-04	--GCGSCTGC-- CAGCAGYTGCYK	
J_MA0412.1_UME6	8.1645e-04	--GCAGSCGC--- AWWTAGCCGCCSA	
J_MA0394.1_STP1	1.2396e-03	GCAGSCGC- -NMGCCGCR	
J_MA0449.1_h	1.2912e-03	-GCGSCTGC- GNCACGTGNC	



43

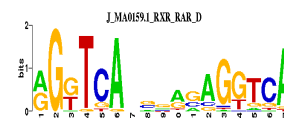
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	4.7472e-05	---GGAGNGGC GGGGGNGGGG-	
J_MA0366.1_RGM1	1.9765e-04	GGAGNGGC --AGGGG-	

J_MA0342.1_MSN4 2.0604e-04

GCCNCTCC
-CCCCT--

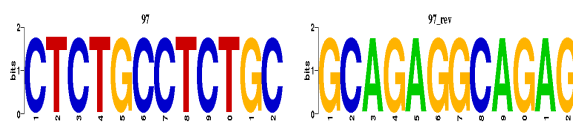
J_MA0159.1_RXR_RAR_D 4.3513e-04

--GCCNCTCC-----
TGACCTNYYNNNTGAMCY

J_MA0341.1_MSN2 4.3959e-04

GCCNCTCC
-CCCCT--

97

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

J_MA0081.1_SPIB 5.8925e-04

CTCTGCCTCTGC
---TTCKST--

J_MA0283.1_CHA4 6.4739e-04

-CTCTGCCTCTGC
NCTCCGCC-----

J_MA0062.1_GABPA 9.4136e-04

GCAGAGGCAGAG
--ACCGGAAGNS

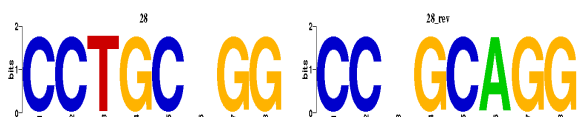
J_MA0150.1_NFE2L2 1.2570e-03

-GCAGAGGCAGAG
TGCTNWGTCAY--

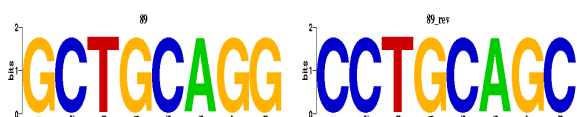
J_MA0340.1_MOT3 1.8159e-03

CTCTGCCTCTGC
---TRCCTN---

28

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0139.1_CTCF	6.5639e-05	-----CCTGCNGG--- NNSYGCCMCCTRSTGGNNR	
J_MA0402.1_SWI5	1.1762e-04	--CCNGCAGG NACCAGCA--	
J_MA0055.1_Myf	9.2063e-04	CCNGCAGG----- -CAGCAGYTGCYK	
J_MA0456.1_opa	1.5399e-03	-----CCTGCNGG GMCCCCCGCNG-	
J_MA0385.1_SOK2	2.5186e-03	-CCNGCAGG-- NNMTGCAKNNN	



89

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	3.8103e-04	CCTGCAGC----- -CAGCAGYTGCYK	
J_MA0324.1_LEU3	5.7079e-04	--GCTGCAGG CCGGNNNMGG	

J_MA0385.1_SOK2 8.1510e-04

—CCTGCAGC—
NNMTGCAKNNN



J_MA0402.1_SWI5 3.7071e-03

GCTGCAGG—
—TGCTGGTN



J_MA0086.1_sna 6.4886e-03

—CCTGCAGC
CACCTG----

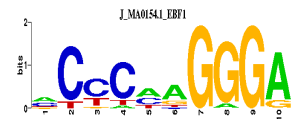


98

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

J_MA0154.1_EBF1 2.0053e-05

—CCCTGSAG—
TCCCTNGGNN



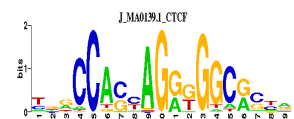
J_MA0364.1_REI1 1.6870e-04

CTSCAGGG—
—NCAGGGG



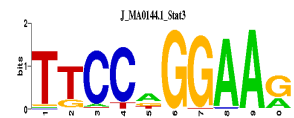
J_MA0139.1_CTCF 1.9708e-04

-----CCCTGSAG-----
NNSYGCCMCCTRSTGGNNR



J_MA0144.1_Stat3 2.9842e-04

—CCCTGSAG
CTTCCNGGAA



J_MA0366.1_RGM1 1.7687e-03

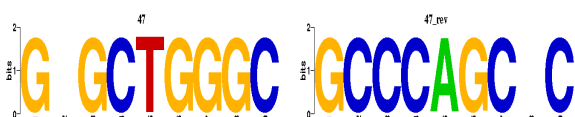
CTSCAGGG—
----AGGGG



82

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0402.1_SWI5	1.4184e-05	-GCCAGSAG NACCAGCA-	J_MA0402.1_SWI5
J_MA0144.1_Stat3	5.3128e-04	-CTSCTGGC- CTTCCNGGAA	J_MA0144.1_Stat3
J_MA0267.1_ACE2	1.0271e-03	CTSCTGGC -NGCTGGN	J_MA0267.1_ACE2
J_MA0155.1_INSM1	3.0118e-03	-GCCAGSAG--- TGYCAGGGGGCR	J_MA0155.1_INSM1
J_MA0323.1_IXR1	3.0520e-03	-----CTSCTGGC-- CMCCGCTTCCGGYTT	J_MA0323.1_IXR1



47

*forward**reverse complement*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	9.3916e-07	GCCCAGCNC- GCCMCRCNCN	J_MA0039.2_Klf4
J_MA0079.2_SP1	1.2271e-05	--GNGCTGGGC GGGGGNGGGG-	J_MA0079.2_SP1

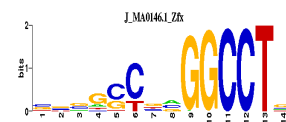
J_MA0079.1_SP1 3.1958e-04

GCCCAGCNC—
 ACCCNGCCNN



J_MA0146.1_Zfx 3.3247e-04

--GNGCTGGGC---
 NAGGCCNNGGCNNN

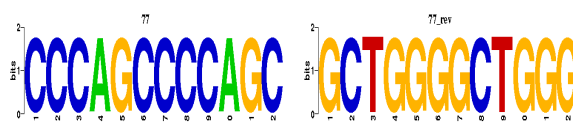


J_MA0267.1_ACE2 3.9729e-04

GCCCAGCNC
 --NCCAGCN--

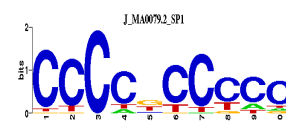


77

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

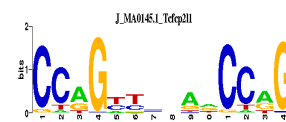
J_MA0079.2_SP1 7.2192e-07

GCTGGGGCTGGG
 --GGGGGNGGGG



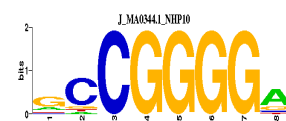
J_MA0145.1_Tcfp211 8.6145e-05

---GCTGGGGCTGGG
 CYGGNTNNRNCYGG--



J_MA0344.1_NHP10 3.2079e-04

GCTGGGGCTGGG
 NCCGGGGA----



J_MA0213.1_brk 5.2600e-04

CCCAGCCCCAGC
 ---RGCGCCRS--

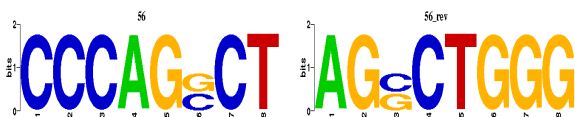


J_MA0332.1_MET28 1.1280e-03

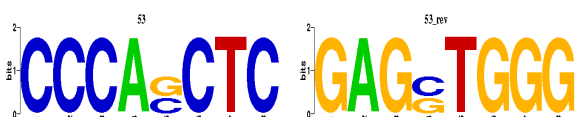
CCCAGCCCCAGC
 -----CCACAG--



56

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	1.4559e-04	AGSCTGGG- -NCCGGGGA	
J_MA0079.1_SP1	6.1016e-04	-CCCAGSCT- ACCCNGCCNN	
J_MA0267.1_ACE2	2.0738e-03	AGSCTGGG -NGCTGGN	
J_MA0162.1_Egr1	2.4054e-03	---CCCAGSCT MCGCCCACGCN	
J_MA0088.1_znf143	3.6675e-03	-----CCCAGSCT----- NNNNTCCCAKNNTKCMNNGM	



53

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0145.1_Tcfcp2l1	5.1857e-04	-----GAGSTGGG CYGGNTNNRNCYGG-	
J_MA0103.1_ZEB1	6.3292e-04	GAGSTGGG NAGGTG--	

J_MA0086.1_sna 7.8601e-04

CCCASCTC
--CACCTG

J_MA0267.1_ACE2 8.9710e-04

GAGSTGGG
-NGCTGGN

J_MA0048.1_NHLH1 9.7250e-04

-CCCASCTC---
NCGCAGCTGCGN

45

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

J_MA0213.1_brk 2.0774e-03

-GAGCCNNG
RGCGCCRS-

J_MA0368.1_RIM101 3.9998e-03

CCNGGCTC
CTTGCR-

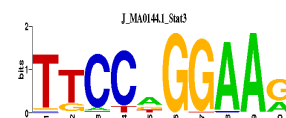
J_MA0155.1_INSM1 4.2417e-03

GAGCCNNG-----
-TGYCAGGGGGCR

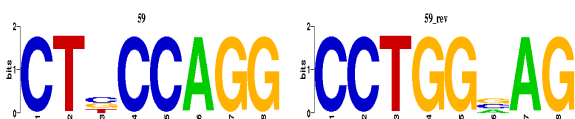
J_MA0344.1_NHP10 5.0162e-03

--CCNGGCTC
TCCCCGN--

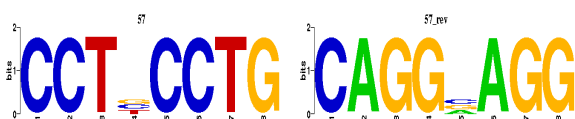
J_MA0144.1_Stat3 6.1712e-03

---CCNGGCTC
CTTCCNGGAA-

59

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0144.1_Stat3	5.6464e-06	---CCTGGNAG CTTCCNGGAA-	
J_MA0344.1_NHP10	1.9401e-04	CTNCCAGG- -TCCCCGGN	
J_MA0304.1_GCR1	4.1541e-04	CCTGGNAG-- --TGGAAGCC	
J_MA0155.1_INSM1	1.7108e-03	CTNCCAGG----- -TGYCAGGGGGCR	
J_MA0026.1_Eip74EF	1.8703e-03	CTNCCAGG YTTCCGG-	



57

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0144.1_Stat3	7.2151e-06	CCTNCCTG--- -CTTCCNGGAA	
J_MA0156.1_FEV	8.8937e-06	CCTNCCTG AYTTCCTG	

J_MA0026.1_Eip74EF 3.2067e-05

CAGGNAGG
CCGGAAR-

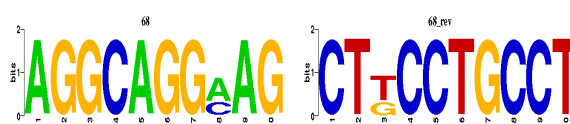
J_MA0080.2_SPI1 3.4282e-05

CCTNCCTG
ACTTCCT-

J_MA0149.1_EWSR1-FLI 4.1747e-05

----CCTNCCTG-----
CCTTCCTTCCTTCCTCC

68

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

J_MA0149.1_EWSR1-FLI 2.9496e-09

-CTTCCTGCCT-----
CCTTCCTTCCTTCCTCC

J_MA0156.1_FEV 2.3206e-06

-CTTCCTGCCT
AYTCCTG---

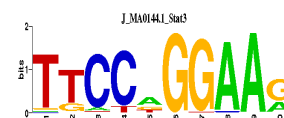
J_MA0026.1_Eip74EF 4.6871e-06

AGGCAGGAAG
---CCGGAAR

J_MA0080.2_SPI1 5.0369e-06

-CTTCCTGCCT
ACTTCCT----

J_MA0144.1_Stat3 6.2704e-06

CTTCCTGCCT
CTTCNGGAA

71

*forward**reverse compliment*

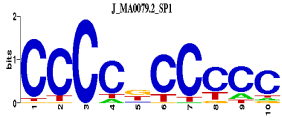
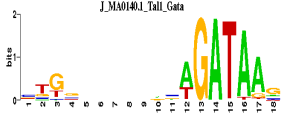
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0429.1_YLL054C	5.6613e-04	-CGGCCTGCCT NCGGCCG----	
J_MA0361.1_RDS1	5.7042e-04	-CGGCCTGCCT NCGGCCG----	
J_MA0340.1_MOT3	1.4601e-03	CGGCCTGCCT- -----TRCCTN	
J_MA0381.1_SKN7	3.0814e-03	-CGGCCTGCCT NYGGCC-----	
J_MA0080.2_SPI1	5.9802e-03	CGGCCTGCCT ---ACTTCCT	



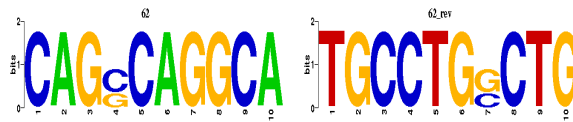
72

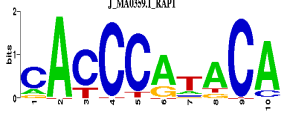
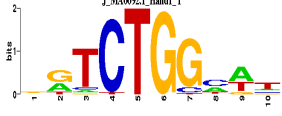
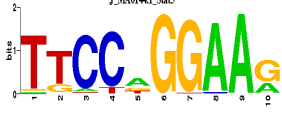
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0149.1_EWSR1-FLI	2.4873e-05	---AGGGAGGCAG----- GGAAGGAAGGAAGGAAGG	
J_MA0410.1_UGA3	1.1883e-03	CTGCCTCCCT -TCCCGCCN-	

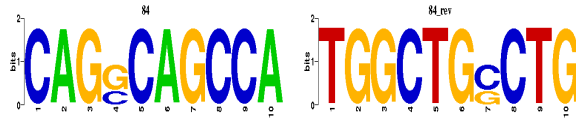
J_MA0079.2_SP1	1.3748e-03	-AGGGAGGCAG GGGGNGGGG-	
J_MA0140.1_Tal1_Gata	1.7409e-03	-----CTGCCTCCCT--- NTTATCTNNNNNNNNNCNN	
J_MA0111.1_Spz1	1.8959e-03	AGGGAGGCAG- AGGGTAWCAGC	

62

*forward**reverse compliment*

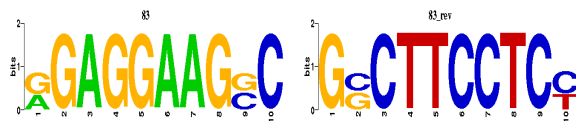
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0340.1_MOT3	1.2026e-04	TGCCTGSCTG TRCCTN----	
J_MA0359.1_RAP1	1.7731e-03	TGCCTGSCTG TGTATGGGTG	
J_MA0344.1_NHP10	1.8684e-03	TGCCTGSCTG TCCCCGN--	
J_MA0092.1_Hand1_T	3.5670e-03	CAGSCAGGCA NWNCCAGAYN	
J_MA0144.1_Stat3	3.9442e-03	-TGCCTGSCTG CTTCCNGGAA-	

84

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0304.1_GCR1	3.1510e-04	CAGGCAGCCA -TGAAGCC-	
J_MA0340.1_MOT3	3.1527e-04	TGGCTGCCTG ----TRCCTN	
J_MA0119.1_TLX1_NFIC	1.7702e-03	TGGCTGCCTG---- TGGCASNNNGCCAA	
J_MA0156.1_FEV	3.6216e-03	TGGCTGCCTG --AYTTCCTG	
J_MA0144.1_Stat3	4.6431e-03	TGGCTGCCTG--- ---CTTCNGGAA	

83

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0080.2_SPI1	1.4526e-06	GSCTTCCTCY -ACTTCCT--	
J_MA0304.1_GCR1	1.6883e-06	GSCTTCCTCY GGCTTCCA--	

Stamp Results

11/22/15

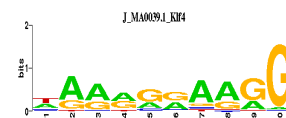
J_MA0081.1_SPIB 7.4950e-06

GSCTTCCTCY
---TTCCKST



J_MA0039.1_Klf4 1.0543e-05

-RGAGGAAGSC
NAARRRAAGG-



J_MA0305.1_GCR2 1.9088e-05

GSCTTCCTCY
-GCTTCN--



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STAMP is written by Shaun Mahony