



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".

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Multiple Alignment

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

```

0:      ---GCCCCGCCCCGC--
1:      --GCGCGCGC-----
2:      -----CCACGTGG---
3:      ----CCCYCCC-----
4:      -----CCGCCGCGGC-
5:      -----CGCNGCGCA
6:      -----CCGCCNCC---
7:      ---CCYCCCC-----
8:      ----CNCCGCCNC---
9:      -----GCCGCGCG----
10:     --GCNTGCGC-----
11:     -----GCGSCTGC---
12:     --GCAGCNGC-----
13:     ---GCGCCGCCGC----
14:     --GCCNCGC-----
15:     -----CCNCTCC---
16:     --GGCTSCGC-----
17:     ---GCCACGCSC-----
18:     -CACTTCCGG-----
19:     -----CCNCCCGC---
20:     ---CCTSCGCC-----
21:     -----SCGCCCCCTC-
22:     ---CNGCCGCCA-----

```

Stamp Results

11/22/15

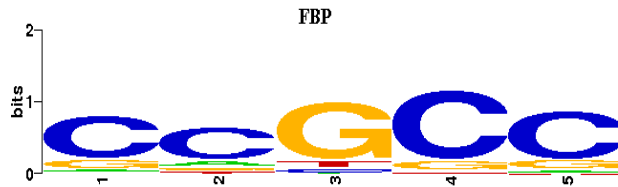
23: ---CTCCCNCC-----
24: -----CGCSCCTC-----
25: ---CTSCAGCC-----
26: -----GCACGYGC-----
27: -----CCGCNGCC---
28: -----CCCSSCCC-----
29: -----TCKKCCCC-----
30: --GCTGCTGSC-----
31: --GCTCCNGC-----
32: -ANCAGCAGC-----
33: --GCGGCCGCC-----
34: SCGCTCCCGS-----
35: ---GCNGCGCC-----
36: ---GCCASGCC-----
37: -----CCNGCAGC-----
38: -----CCCGSAGC-----
39: -----SAGCCTGGSC-
40: --TSTCTCTCC-----
41: -----SCGCCAGSC-
42: ---CCASCTCC-----
43: ---GNGCCGCGSC-----
44: -----CNCCGCCCAS---
45: -----CCGGNAGC---
46: -GSCTCCCGSC-----
47: ---CCSAGGCC-----
48: -----CCCTNCCC-----
49: --CCGSCCGCCC-----
50: -----CGCCATCTTG
51: -----CCCGNGCC-----
52: ---CCCSAGCC-----
53: -----GCNCTGGG-
54: ---CSCGCGCC-----
55: ---CAGCCGCCGC-----
56: -----CGSCCCGG--
57: -----CTNCCTGC---
58: -----GCYTCCGG-----
59: -----CNGCCTCCTS-
60: ---GTGACGTCAC-----
61: ---CTCCGCGC-----
62: -----CCGCSTGC---
63: --GCTGCAGCAG-----
64: -----CCTSCAGG---
65: -----CGCCTGCG--

Stamp Results

11/22/15

```
66: -----CAGSCTGC---
67: ---GCTSGGCC-----
68: ----CCNGCGC-----
69: -----CGCRYGCG--
70: -----GGYCACGT--
71: ---CTNCCGCC-----
72: ---CTTCCNGC-----
73: ----TGCRCRCG----
74: ----CAGCGSCC-----
75: -----CCCYCYCC---
76: ----CCNGCCCT----
77: ----CCCGGSCC-----
78: ----CCAGCCCNG---
79: --CAGGCAGCCA-----
80: ---CCKCCGCCGC----
81: --GCCTCNGC-----
82: SCGCAGCCNC-----
83: ---GCAGNGCC-----
84: -----CGCCYTCC--
85: ----CCMCACCC-----
86: -SGCTCCCGSG-----
87: CNCGGCCCGS-----
88: -----CAGCTSCT---
89: ---SAGCCGCGSC----
90: CNGGCTCCGS-----
91: ----CCCCTYCC-----
92: ----GCCAGSCC-----
93: ----CCTGSCTC-----
94: ----CCAGGSCT-----
95: ---CGCCCGCCCA----
96: ---SCCSCGSG-----
97: ---CCNGGGCC-----
98: ---CTCCASCC-----
99: ----GCGCNCCG-----
```

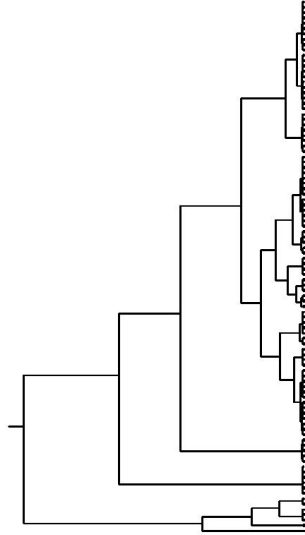
Familial Profile:
(click for matrix)



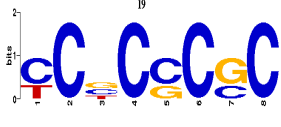
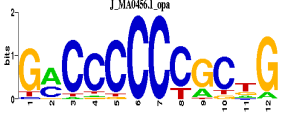
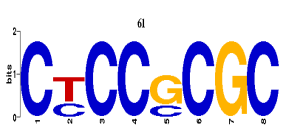

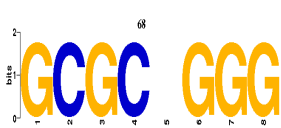

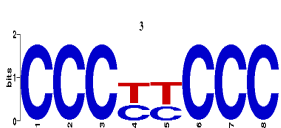
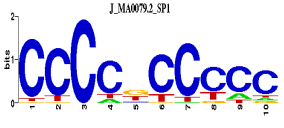
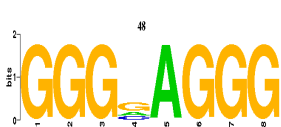
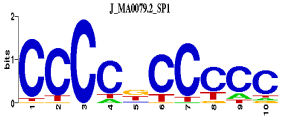

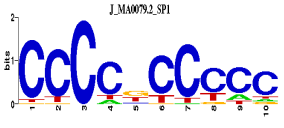
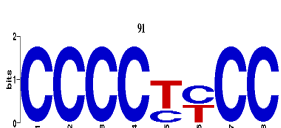
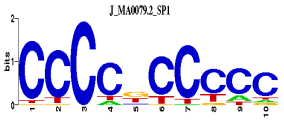


Motif Tree

Tree (drawn by **Phylip**)

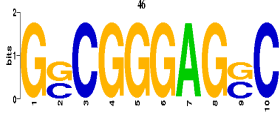




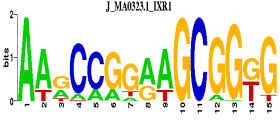

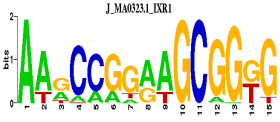



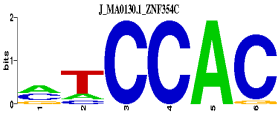

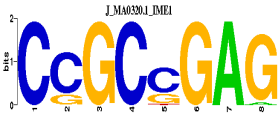


[Click here for Newick-format tree \(viewable with MEGA\)](#)

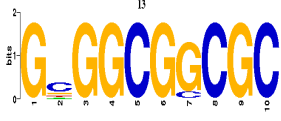


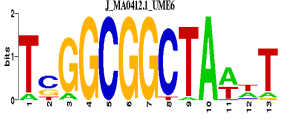

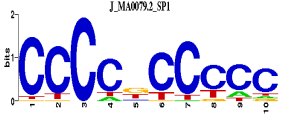



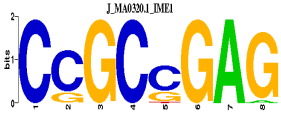

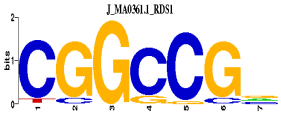



















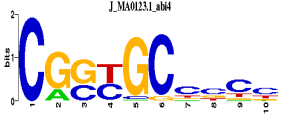

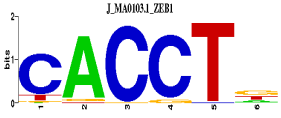
	Input Motif	Best match in user-defined
0		J_MA0079.2_SP1 ccCc ccccc J_MA0079.2_SP1 (E val: 5.8252e-11)
8		J_MA0079.2_SP1 ccCc ccccc J_MA0079.2_SP1 (E val: 4.4409e-16)
28		J_MA0079.2_SP1 ccCc ccccc J_MA0079.2_SP1 (E val: 1.5448e-08)
44		J_MA0079.2_SP1 ccCc ccccc J_MA0079.2_SP1 (E val: 1.6819e-10)
76		J_MA0079.2_SP1 ccCc ccccc J_MA0079.2_SP1 (E val: 7.5565e-07)
49		J_MA0361.1_RDS1 CGGcCG J_MA0361.1_RDS1 (E val: 3.3773e-06)
95		J_MA0039.2_Klf4 GGG-TGGG J_MA0039.2_Klf4 (E val: 2.6849e-05)






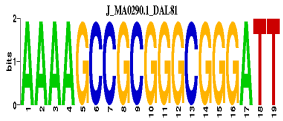



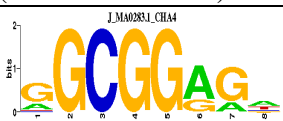



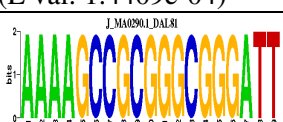

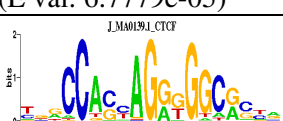
 <p>19</p>	 <p>J_MA0456.1_opa (E val: 1.9808e-07)</p>
 <p>61</p>	 <p>J_MA0399.1_SUT1 (E val: 1.6697e-08)</p>
 <p>68</p>	 <p>J_MA0399.1_SUT1 (E val: 1.7321e-10)</p>
 <p>3</p>	 <p>J_MA0079.2_SP1 (E val: 1.5431e-07)</p>
 <p>48</p>	 <p>J_MA0079.2_SP1 (E val: 1.0047e-09)</p>
 <p>75</p>	 <p>J_MA0079.2_SP1 (E val: 7.9047e-08)</p>
 <p>91</p>	 <p>J_MA0079.2_SP1 (E val: 8.8750e-09)</p>
 <p>84</p>	 <p>J_MA0443.1_btd (E val: 5.2740e-04)</p>


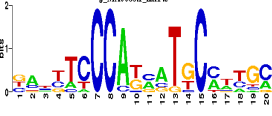











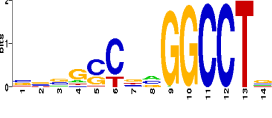

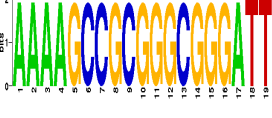
<p>7</p>	<p>J_MA0079.2_SP1</p> <p>J_MA0079.2_SP1 (E val: 6.1391e-09)</p>
<p>15</p>	<p>J_MA0079.2_SP1</p> <p>J_MA0079.2_SP1 (E val: 5.2502e-08)</p>
<p>40</p>	<p>J_MA0079.2_SP1</p> <p>J_MA0079.2_SP1 (E val: 1.3831e-05)</p>
<p>29</p>	<p>J_MA0443.1_btd</p> <p>J_MA0443.1_btd (E val: 3.9709e-10)</p>
<p>21</p>	<p>J_MA0443.1_btd</p> <p>J_MA0443.1_btd (E val: 8.6549e-09)</p>
<p>59</p>	<p>J_MA0079.2_SP1</p> <p>J_MA0079.2_SP1 (E val: 8.5535e-06)</p>
<p>23</p>	<p>J_MA0410.1_UGA3</p> <p>J_MA0410.1_UGA3 (E val: 9.8601e-08)</p>
<p>71</p>	<p>J_MA0410.1_UGA3</p> <p>J_MA0410.1_UGA3 (E val: 5.3159e-09)</p>

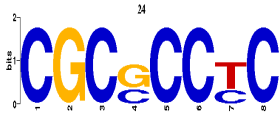

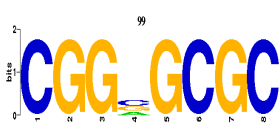




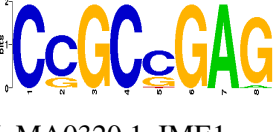



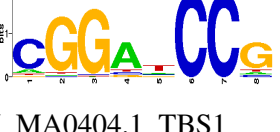




<p>46</p> 	<p>J_MA0410.1_UGA3 (E val: 2.7238e-07)</p> 
<p>31</p> 	<p>J_MA0410.1_UGA3 (E val: 2.3221e-06)</p> 
<p>34</p> 	<p>J_MA0323.1_IXR1 (E val: 1.0671e-07)</p> 
<p>86</p> 	<p>J_MA0323.1_IXR1 (E val: 1.5102e-05)</p> 
<p>25</p> 	<p>J_MA0410.1_UGA3 (E val: 1.0626e-04)</p> 
<p>98</p> 	<p>J_MA0130.1_ZNF354C (E val: 2.6819e-05)</p> 
<p>4</p> 	<p>J_MA0320.1_IME1 (E val: 1.0165e-06)</p> 
<p>80</p> 	<p>J_MA0283.1_CHA4 (E val: 4.9125e-07)</p> 


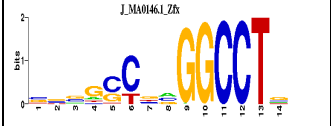

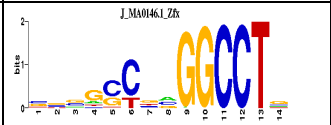
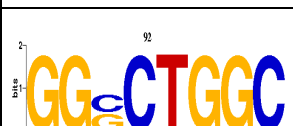


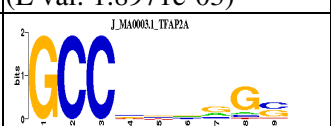







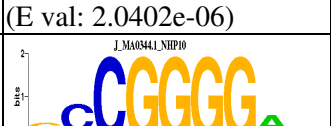
 <p>13</p>	 <p>J_MA0123.1_abi4 (E val: 1.5564e-06)</p>
 <p>55</p>	 <p>J_MA0412.1_UME6 (E val: 4.8854e-08)</p>
 <p>6</p>	 <p>J_MA0079.2_SP1 (E val: 2.1093e-08)</p>
 <p>27</p>	 <p>J_MA0320.1_IME1 (E val: 2.1638e-06)</p>
 <p>22</p>	 <p>J_MA0320.1_IME1 (E val: 8.7084e-06)</p>
 <p>33</p>	 <p>J_MA0361.1_RDS1 (E val: 2.8390e-06)</p>
 <p>11</p>	 <p>J_MA0048.1_NHLH1 (E val: 1.8763e-05)</p>
 <p>82</p>	 <p>J_MA0048.1_NHLH1 (E val: 1.3053e-07)</p>

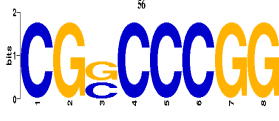




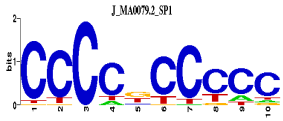

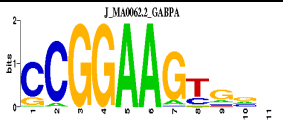

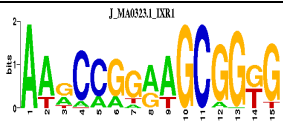


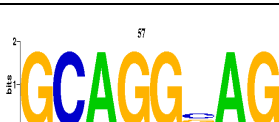
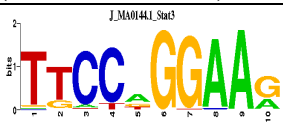


 <p>12</p>	 <p>J_MA0048.1_NHLH1 (E val: 1.4854e-05)</p>
 <p>32</p>	 <p>J_MA0055.1_Myf (E val: 4.2058e-08)</p>
 <p>30</p>	 <p>J_MA0055.1_Myf (E val: 2.0672e-06)</p>
 <p>63</p>	 <p>J_MA0055.1_Myf (E val: 2.0820e-06)</p>
 <p>35</p>	 <p>J_MA0213.1_brk (E val: 2.9292e-06)</p>
 <p>83</p>	 <p>J_MA0384.1_SNT2 (E val: 2.0677e-05)</p>
 <p>74</p>	 <p>J_MA0123.1_abi4 (E val: 2.6642e-05)</p>
 <p>42</p>	 <p>J_MA0103.1_ZEB1 (E val: 3.8981e-04)</p>


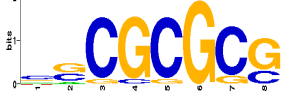



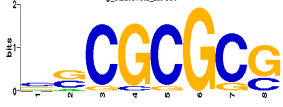





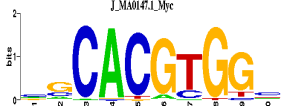




 <p>88</p>	 <p>J_MA0055.1_Myf (E val: 2.2902e-07)</p>
 <p>10</p>	 <p>J_MA0162.1_Egr1 (E val: 5.9747e-05)</p>
 <p>65</p>	 <p>J_MA0290.1_DAL81 (E val: 1.5087e-05)</p>
 <p>20</p>	 <p>J_MA0283.1_CHA4 (E val: 1.2655e-08)</p>
 <p>81</p>	 <p>J_MA0283.1_CHA4 (E val: 6.1204e-06)</p>
 <p>37</p>	 <p>J_MA0055.1_Myf (E val: 1.4409e-04)</p>
 <p>38</p>	 <p>J_MA0290.1_DAL81 (E val: 6.7779e-05)</p>
 <p>64</p>	 <p>J_MA0139.1_CTCF (E val: 9.4234e-05)</p>




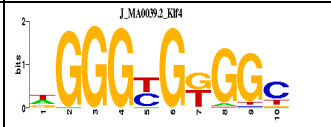


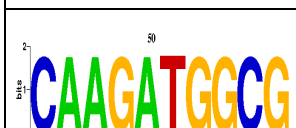



 <p>66</p>	 <p>J_MA0088.1_znf143 (E val: 4.2380e-03)</p>
 <p>79</p>	 <p>J_MA0340.1_MOT3 (E val: 2.4878e-04)</p>
 <p>93</p>	 <p>J_MA0340.1_MOT3 (E val: 2.6157e-03)</p>
 <p>9</p>	 <p>J_MA0375.1_RSC30 (E val: 9.5026e-09)</p>
 <p>96</p>	 <p>J_MA0399.1_SUT1 (E val: 1.2666e-07)</p>
 <p>54</p>	 <p>J_MA0375.1_RSC30 (E val: 5.8986e-08)</p>
 <p>43</p>	 <p>J_MA0146.1_Zfx (E val: 3.7767e-06)</p>
 <p>89</p>	 <p>J_MA0290.1_DAL81 (E val: 7.7439e-07)</p>

 <p><u>24</u></p>	 <p>J_MA0443.1_btd (E val: 2.4773e-05)</p>
 <p><u>99</u></p>	 <p>J_MA0375.1_RSC30 (E val: 7.0099e-05)</p>
 <p><u>14</u></p>	 <p>J_MA0399.1_SUT1 (E val: 2.6012e-06)</p>
 <p><u>67</u></p>	 <p>J_MA0320.1_IME1 (E val: 2.1125e-05)</p>
 <p><u>16</u></p>	 <p>J_MA0283.1_CHA4 (E val: 1.9023e-05)</p>
 <p><u>90</u></p>	 <p>J_MA0404.1_TBS1 (E val: 8.3384e-07)</p>
 <p><u>39</u></p>	 <p>J_MA0162.1_Egr1 (E val: 1.2657e-04)</p>
 <p><u>41</u></p>	 <p>J_MA0162.1_Egr1 (E val: 1.1565e-06)</p>

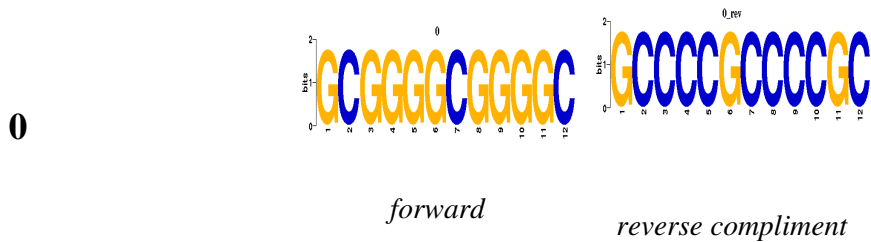
 <p>47</p>	 <p>J_MA0146.1_Zfx (E val: 1.5685e-07)</p>
 <p>94</p>	 <p>J_MA0146.1_Zfx (E val: 9.7505e-06)</p>
 <p>92</p>	 <p>J_MA0267.1_ACE2 (E val: 1.8971e-03)</p>
 <p>53</p>	 <p>J_MA0003.1_TFAP2A (E val: 6.4079e-06)</p>
 <p>51</p>	 <p>J_MA0358.1_PUT3 (E val: 3.4188e-05)</p>
 <p>77</p>	 <p>J_MA0344.1_NHP10 (E val: 5.9305e-06)</p>
 <p>97</p>	 <p>J_MA0358.1_PUT3 (E val: 2.0402e-06)</p>
 <p>52</p>	 <p>J_MA0344.1_NHP10 (E val: 6.8802e-05)</p>

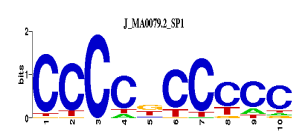
 <p>56</p>	 <p>J_MA0344.1_NHP10 (E val: 4.2420e-05)</p>
 <p>87</p>	 <p>J_MA0276.1_ASH1 (E val: 2.2925e-04)</p>
 <p>78</p>	 <p>J_MA0079.2_SP1 (E val: 2.2882e-04)</p>
 <p>18</p>	 <p>J_MA0062.2_GABPA (E val: 1.9096e-14)</p>
 <p>45</p>	 <p>J_MA0323.1_IXR1 (E val: 1.7373e-09)</p>
 <p>58</p>	 <p>J_MA0026.1_Eip74EF (E val: 1.7114e-09)</p>
 <p>57</p>	 <p>J_MA0144.1_Stat3 (E val: 1.0128e-05)</p>
 <p>72</p>	 <p>J_MA0026.1_Eip74EF (E val: 2.2097e-09)</p>

<p>1</p>  <p>1</p>	<p>J_MA0375.1_RSC30</p>  <p>J_MA0375.1_RSC30 (E val: 4.7706e-08)</p>
<p>73</p>  <p>73</p>	<p>J_MA0375.1_RSC30</p>  <p>J_MA0375.1_RSC30 (E val: 9.7602e-08)</p>
<p>69</p>  <p>69</p>	<p>J_MA0375.1_RSC30</p>  <p>J_MA0375.1_RSC30 (E val: 1.1329e-04)</p>
<p>5</p>  <p>5</p>	<p>J_MA0162.1_Egr1</p>  <p>J_MA0162.1_Egr1 (E val: 4.2887e-03)</p>
<p>26</p>  <p>26</p>	<p>J_MA0449.1_h</p>  <p>J_MA0449.1_h (E val: 5.0299e-11)</p>
<p>62</p>  <p>62</p>	<p>J_MA0147.1_Myc</p>  <p>J_MA0147.1_Myc (E val: 3.9527e-07)</p>
<p>2</p>  <p>2</p>	<p>J_MA0059.1_MYC_MAX</p>  <p>J_MA0059.1_MYC_MAX (E val: 1.4449e-10)</p>
<p>70</p>  <p>70</p>	<p>J_MA0097.1_bZIP911</p>  <p>J_MA0097.1_bZIP911 (E val: 1.9372e-09)</p>

 <p>17</p>	 <p>J_MA0039.2_Klf4 (E val: 1.3461e-10)</p>
 <p>36</p>	 <p>J_MA0039.2_Klf4 (E val: 6.4498e-08)</p>
 <p>85</p>	 <p>J_MA0039.2_Klf4 (E val: 2.0723e-10)</p>
 <p>50</p>	 <p>J_MA0373.1_RPN4 (E val: 1.9891e-05)</p>
 <p>60</p>	 <p>J_MA0018.2_CREB1 (E val: 3.0674e-12)</p>

Motif Similarity Matches



Name	E value	Alignment	Motif
J_MA0079.2_SP1	5.8252e-11	GCCCCGCCCCGC -CCCNCCCC-	

J_MA0039.2_Klf4 2.6155e-09

GCCCCGCCCCGC
GCCMCRCCCN--



J_MA0443.1_btd 3.8624e-06

GCCCCGCCCCGC
--YCCGCCCMCN



J_MA0399.1_SUT1 1.3845e-05

GCGGGGCGGGGC
GCGGGG-----

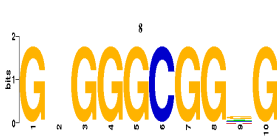


J_MA0450.1_hkb 1.4770e-05

GCCCCGCCCCGC
-TCACGCCCM--



8



forward

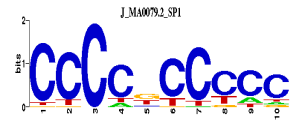


reverse compliment

Name E value Alignment Motif

J_MA0079.2_SP1 4.4409e-16

GNGGGCGGNG
GGGGGNGGGG



J_MA0443.1_btd 5.2203e-10

CNCCGCCNC-
-YCCGCCCMCN



J_MA0290.1_DAL81 1.6017e-07

--CNCCGCCNC-----
AATCCC GCCCGCGGCTTTT



J_MA0039.2_Klf4 3.3278e-07

-CNCCGCCNC
GCCMCRCCCN-

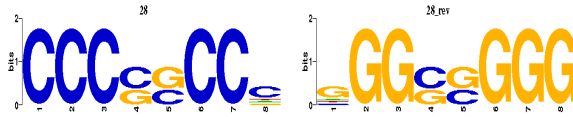


J_MA0283.1_CHA4 1.6860e-06

-CNCCGCCNC
NCTCCGCC---



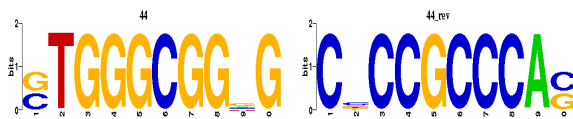
28



forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.5448e-08	--GGGSSGGG GGGGGNGGGG	
J_MA0039.2_Klf4	9.5907e-07	-CCCSSTCC- GCCMCRCN	
J_MA0399.1_SUT1	5.6544e-06	CCCSSTCC CCCCGCG-	
J_MA0079.1_SP1	1.4745e-05	-CCCSSTCC- ACCCNGCCNN	
J_MA0290.1_DAL81	1.6475e-05	--CCCSSTCC----- AATCCCGCCCGCGCTTTT	

44



forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.6819e-10	STGGGCGGNG GGGGGNGGGG	
J_MA0039.2_Klf4	3.3278e-07	-CNCCGCCCAS GCCMCRCN-	

J_MA0162.1_Egr1 9.0467e-07

CNCCGCCCAS---
--MCGCCCACGCN



J_MA0283.1_CHA4 1.6860e-06

-CNCCGCCCAS
NCTCCGCC---

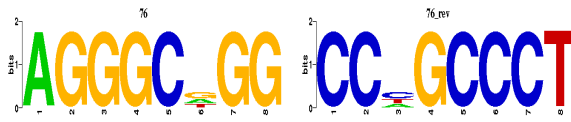


J_MA0443.1_btd 1.9149e-06

CNCCGCCCAS-
-YCCGCCCMCN



76



forward

reverse compliment

Name

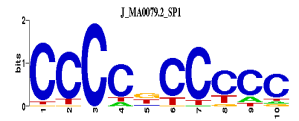
E value

Alignment

Motif

J_MA0079.2_SP1 7.5565e-07

-AGGGCNGG-
GGGGNGGGG



J_MA0290.1_DAL81 3.0973e-06

---CCNGCCCT-----
AATCCC GCCCGCGGCTTTT



J_MA0410.1_UGA3 2.2035e-05

-CCNGCCCT
TCCCGCCN-



J_MA0443.1_btd 2.9369e-05

CCNGCCCT--
YCCGCCMCN

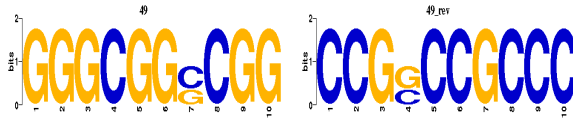


J_MA0039.2_Klf4 3.1264e-05

--CCNGCCCT
GCCMCRCNN



49

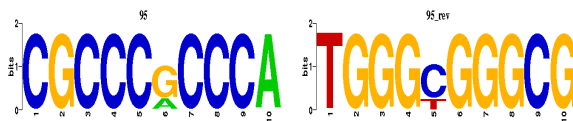


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0361.1_RDS1	3.3773e-06	GGGCGGSCGG ---CGGCCGN	
J_MA0429.1_YLL054C	6.9739e-06	CCGSCCGCCC NCGGCCG---	
J_MA0290.1_DAL81	8.2472e-06	----CCGSCCGCCC---- AATCCCGCCCGGGCTTTT	
J_MA0410.1_UGA3	1.4384e-04	CCGSCCGCCC --TCCCGCCN	
J_MA0079.2_SP1	3.3661e-04	--GGGCGGSCGG GGGGGNGGGG--	

95



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0039.2_Klf4	2.6849e-05	CGCCCGCCA GCCMCRCN	
J_MA0079.2_SP1	2.9092e-05	-TGGGCGGGCG GGGGGNGGGG-	

Stamp Results

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J_MA0162.1_Egr1 4.1559e-05

CGCCCGCCCA-----
 ---MCGCCCACGCN



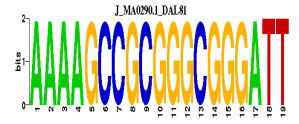
J_MA0410.1_UGA3 4.6730e-05

CGCCCGCCCA
 -TCCCGCCN-

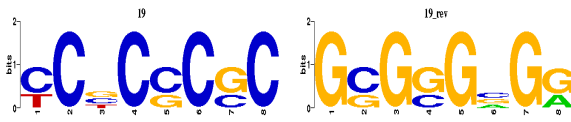


J_MA0290.1_DAL81 8.2315e-05

-----CGCCCGCCCA-----
 AATCCC GCCCGCGGCTTTT



19



forward

reverse compliment

Name

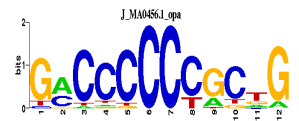
E value

Alignment

Motif

J_MA0456.1_opa 1.9808e-07

--GCGGGNGG--
 CNGCGGGGGGKC



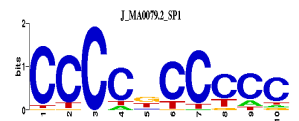
J_MA0290.1_DAL81 2.3203e-07

-----CCNCCCGC-----
 AATCCC GCCCGCGGCTTTT



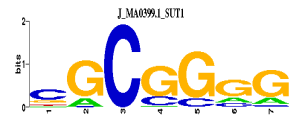
J_MA0079.2_SP1 2.0093e-06

GCGGGNGG--
 GGGGGNGGGG



J_MA0399.1_SUT1 1.1786e-05

CCNCCCGC
 CCCC GCG-

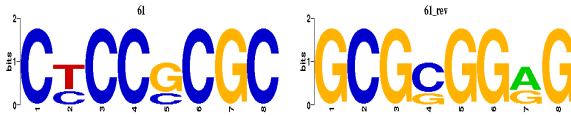


J_MA0443.1_btd 7.4489e-05

-CCNCCCGC-
 YCCGCCMCN



61

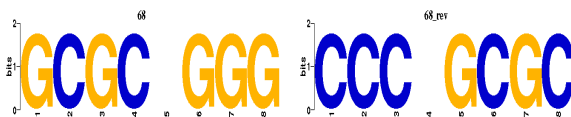


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0399.1_SUT1	1.6697e-08	CTCCGCGC CCCCGCG-	
J_MA0352.1_PDR1	3.2812e-06	CTCCGCGC- -TCCGCGGN	
J_MA0283.1_CHA4	3.5085e-06	-CTCCGCGC NCTCCGCC-	
J_MA0320.1_IME1	7.8640e-06	CTCCGCGC CTCGCGG	
J_MA0353.1_PDR3	8.0852e-06	CTCCGCGC- -TCCGCGGA	

68



forward

reverse compliment

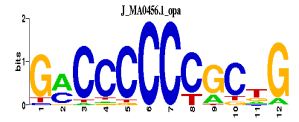
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0399.1_SUT1	1.7321e-10	GCGCNGGG -CGCGGG	
J_MA0338.1_MIG2	4.9988e-06	GCGCNGGG -NGYGGG	

Stamp Results

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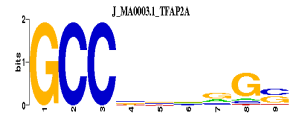
J_MA0456.1_opa 5.4760e-06

--GCGCNGGG--
CNGCGGGGGGKC



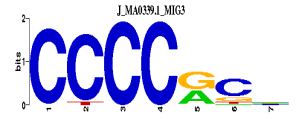
J_MA0003.1_TFAP2A 5.9546e-06

---CCCNGCGC
SCNNNNNGGC

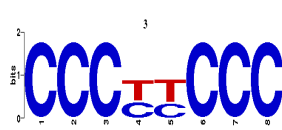


J_MA0339.1_MIG3 7.1283e-06

CCCNGCGC
CCCCRCN-



3



forward

reverse compliment

Name

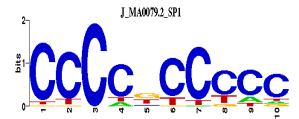
E value

Alignment

Motif

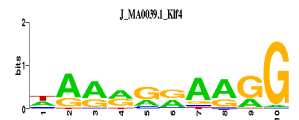
J_MA0079.2_SP1 1.5431e-07

--GGRRGGG
GGGGNGGGG



J_MA0039.1_Klf4 1.0541e-04

CCCYCCCC---
-CCTTYYYTTN



J_MA0341.1_MSN2 1.1756e-04

CCCYCCCC
CCCCT---



J_MA0342.1_MSN4 2.2492e-04

CCCYCCCC
CCCCT---

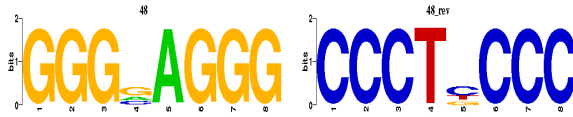


J_MA0366.1_RGM1 4.7388e-04

CCCYCCCC
CCCCT---



48



forward

reverse compliment

Name

E value

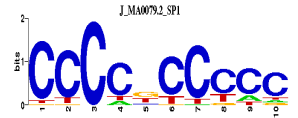
Alignment

Motif

J_MA0079.2_SP1

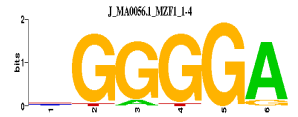
1.0047e-09

-GGGNAGGG-
GGGGNGGGG



J_MA0056.1_MZF1_1-4 6.4640e-05

-GGGNAGGG
NGGGGA---



J_MA0443.1_btd

1.3677e-04

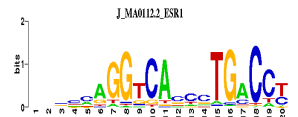
--GGGNAGGG
NGKGGGCGGR



J_MA0112.2_ESR1

7.6918e-04

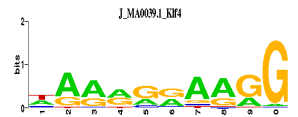
-----CCCTNCCC-
NNNNNAGGTCANNNTGACCY



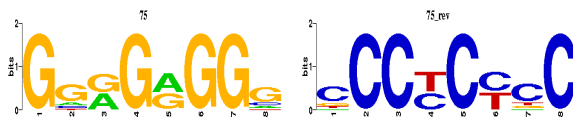
J_MA0039.1_Klf4

8.9827e-04

CCCTNCCC--
CCTTYYYTTN



75



forward

reverse compliment

Name

E value

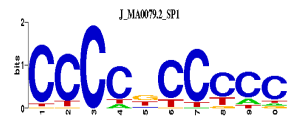
Alignment

Motif

J_MA0079.2_SP1

7.9047e-08

-GGRGRGGG-
GGGGNGGGG



J_MA0068.1_Pax4

7.3451e-05

GGRGRGGG-----
GKRNNNNKNNNNNNNNNNNNKNNWWWTTTYY

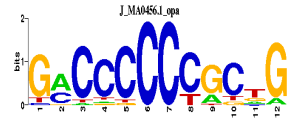


Stamp Results

11/22/15

J_MA0456.1_opa 1.5158e-04

--CCCYCYCC--
GMCCCCCGCNG



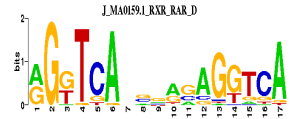
J_MA0341.1_MSN2 2.0824e-04

CCCYCYCC
-CCCCT--

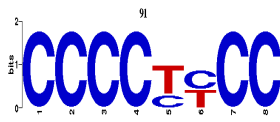


J_MA0159.1_RXR_RAR_D 3.1303e-04

--CCCYCYCC-----
TGACCTNYNNNTGAMCY



91



forward

reverse compliment

Name

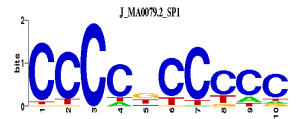
E value

Alignment

Motif

J_MA0079.2_SP1 8.8750e-09

--GGRAGGGG
GGGGGNGGGG



J_MA0341.1_MSN2 1.7073e-06

CCCCTYCC
CCCCT---



J_MA0342.1_MSN4 2.2543e-06

CCCCTYCC
CCCCT---



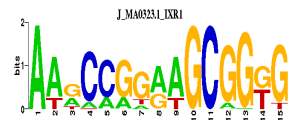
J_MA0366.1_RGM1 4.4472e-06

CCCCTYCC
CCCCT---

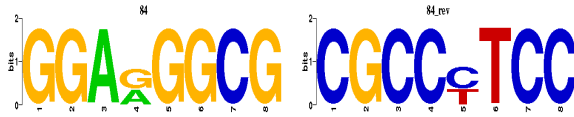


J_MA0323.1_IXR1 2.6503e-05

--CCCCTYCC-----
CMCCGCTTCCGGYTT



84

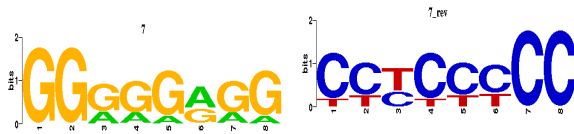


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0443.1_btd	5.2740e-04	--CGCCYTCC YCCGCCMCN	
J_MA0162.1_Egr1	7.1280e-04	-CGCCYTCC-- MCGCCCACGCN	
J_MA0079.2_SP1	8.9192e-04	---CGCCYTCC CCCCNCCCC-	
J_MA0039.1_Klf4	1.0289e-03	CGCCYTCC---- --CCTYYTTN	
J_MA0080.1_SPI1	1.7724e-03	CGCCYTCC- ---STTCN	

7



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0079.2_SP1	6.1391e-09	GGGGRRGG-- GGGGNGGGG	
J_MA0068.1_Pax4	1.9330e-05	GGGGRRGG----- GKRNNNNKNNNNNNNNNNKNNWWWTWTTY	

J_MA0443.1_btd 3.0547e-05

-CCYCCCC-
YCCGCCMCN



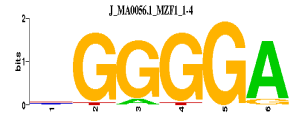
J_MA0283.1_CHA4 9.8701e-05

CCYCCCC
NCTCCGCC

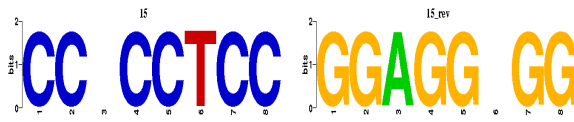


J_MA0056.1_MZF1_1-4 1.5703e-04

GGGGRRGG
NNGGGA--



15



forward

reverse complement

Name

E value

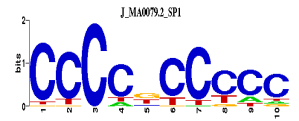
Alignment

Motif

J_MA0079.2_SP1

5.2502e-08

GGAGGNGG--
GGGGGNGGGG



J_MA0443.1_btd

3.1345e-05

-CCNCCTCC-
YCCGCCMCN



J_MA0373.1_RPN4

1.9515e-04

CCNCCTCC
-CGCCACC



J_MA0057.1_MZF1_5-13 2.5578e-04

--CCNCCTCC
NTNCCCCTMN



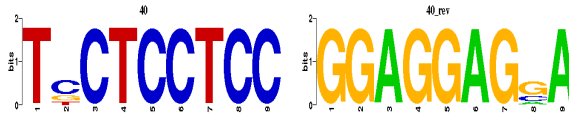
J_MA0283.1_CHA4

3.3999e-04

CCNCCTCC
NCTCCGCC



40



<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	1.3831e-05	GGAGGAGSA- GGGGGNGGGG	
J_MA0283.1_CHA4	1.0413e-04	T SCTCCTCC -NCTCCGCC	
J_MA0443.1_btd	3.8839e-04	T SCTCCTCC- YCCGCCMCN	
J_MA0057.1_MZF1_5-13	4.1811e-04	-T SCTCCTCC NTNCCCCTMN	
J_MA0062.1_GABPA	1.3055e-03	T SCTCCTCC--- --SNCTTCCGGT	

29



<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0443.1_btd	3.9709e-10	TCCKCCCC-- YCCGCCMCN	
J_MA0079.2_SP1	2.2719e-08	-GGGGMGGA- GGGGGNGGGG	

J_MA0283.1_CHA4 1.8192e-05

--TCCKCCCC
NCTCCGCC--



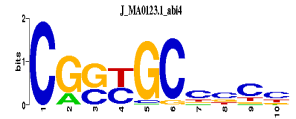
J_MA0450.1_hkb 1.2148e-04

-TCCKCCCC
TCACGCCCM

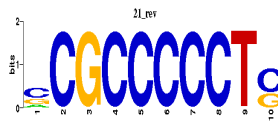


J_MA0123.1_abi4 3.2517e-04

-GGGGMGGG-
NGNNGCRSCG



21



forward

reverse compliment

Name

E value

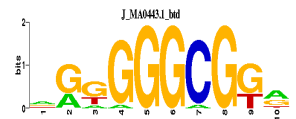
Alignment

Motif

J_MA0443.1_btd

8.6549e-09

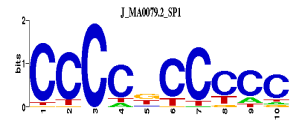
-SCGCCCCCTC
YCCGCCCMCN-



J_MA0079.2_SP1

2.7883e-08

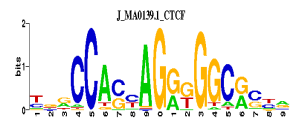
GAGGGGGCGS--
--GGGGGNGGGG



J_MA0139.1_CTCF

2.2855e-07

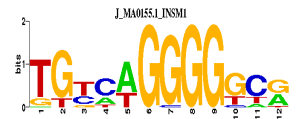
-----GAGGGGGCGS--
YNNCCASYAGGKGGCRSNN



J_MA0155.1_INSM1

2.9013e-07

---GAGGGGGCGS
TGYCAGGGGCR-



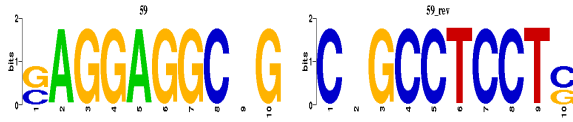
J_MA0366.1_RGM1

6.3946e-06

SCGCCCCCTC
----CCCCT-



59

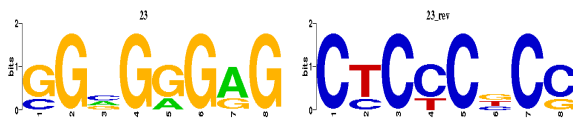


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0079.2_SP1	8.5535e-06	SAGGAGGCNG-- --GGGGNGGGG	
J_MA0443.1_btd	2.8207e-05	-CNGCCTCCTS YCCGCCMCN-	
J_MA0373.1_RPN4	2.8912e-05	CNGCCTCCTS -CGCCACC--	
J_MA0323.1_IXR1	2.4815e-04	---SAGGAGGCNG-- AARCCGGAAGCGGKG	
J_MA0155.1_INSM1	4.0958e-04	CNGCCTCCTS--- -YGCCCCCTGRCA	

23



forward

reverse compliment

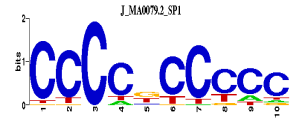
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0410.1_UGA3	9.8601e-08	CTCCCNCC- -TCCCGCCN	
J_MA0290.1_DAL81	3.7314e-05	-CTCCCNCC----- AATCCCGCCCGGGCTTTT	

Stamp Results

11/22/15

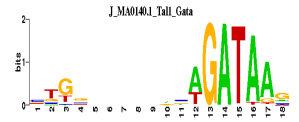
J_MA0079.2_SP1 5.2578e-05

---GGNGGGAG
GGGGGNGGGG-



J_MA0140.1_Tal1_Gata 4.0954e-04

-----GGNGGGAG-----
NNGNNNNNNNNAGATAAN



J_MA0399.1_SUT1 1.1279e-03

CTCCCNCC
-CCCGCG



71



forward

reverse compliment

Name

E value

Alignment

Motif

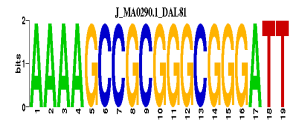
J_MA0410.1_UGA3 5.3159e-09

-GGCGGNAG
NGGCGGGA-



J_MA0290.1_DAL81 4.2114e-06

-CTNCCGCC-----
AATCCCGCCCGCGCTTTT



J_MA0283.1_CHA4 6.3019e-05

CTNCCGCC
NCTCCGCC



J_MA0450.1_hkb 1.6859e-04

CTNCCGCC--
-TCACGCCCM

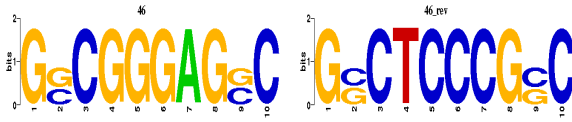


J_MA0026.1_Eip74EF 2.1898e-04

CTNCCGCC
YTTCCGG-



46



forward

reverse compliment

Name

E value

Alignment

Motif

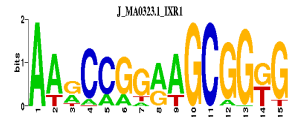
J_MA0410.1_UGA3 2.7238e-07

G SCTCCCGSC-
---TCCCGCCN



J_MA0323.1_IXR1 7.2887e-05

--GSCGGGAGSC---
AARCCGGAAGCGGKG



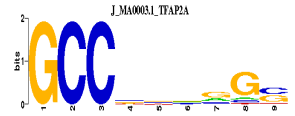
J_MA0290.1_DAL81 2.6522e-04

G SCTCCCGSC-----
-AATCCCGCCCGGGCTTTT



J_MA0003.1_TFAP2A 2.8052e-04

G SCTCCCGSC
-SCNNNGGC

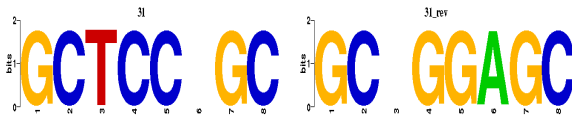


J_MA0344.1_NHP10 3.9399e-04

G SCTCCCGSC
--TCCCGGN



31



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0410.1_UGA3 2.3221e-06

GCTCCNGC--
--TCCCGCCN



J_MA0323.1_IXR1 6.4564e-05

----GCTCCNGC---
CMCCGCTTCCGGYTT



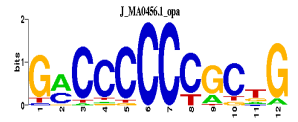
J_MA0290.1_DAL81 3.0761e-04

GCTCCNGC-----
AATCCC GCCCGCGGCTTTT



J_MA0456.1_opa 3.4066e-04

--GCTCCNGC--
GMCCCCCGCNG

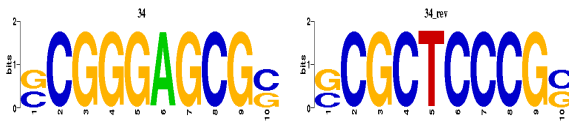


J_MA0162.1_Egr1 3.6432e-04

--GCTCCNGC-
MCGCCCACGCN



34



forward

reverse complement

Name *E value*
J_MA0323.1_IXR1 1.0671e-07

---SCGGGAGCGS--
AARCCGGAAGCGGKG



J_MA0062.2_GABPA 7.7703e-05

-SCGCTCCCGS
NNCACTTCCGG



J_MA0410.1_UGA3 1.5688e-04

SCGCTCCCGS--
----TCCCGCCN



J_MA0162.1_Egr1 1.8268e-04

SCGCTCCCGS-
MCGCCCACGCN

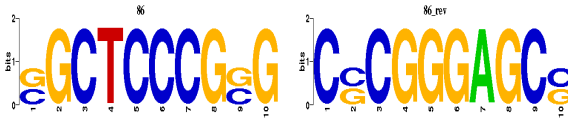


J_MA0384.1_SNT2 2.7810e-04

--SCGCTCCCGS
NGGCGCTAYCA-



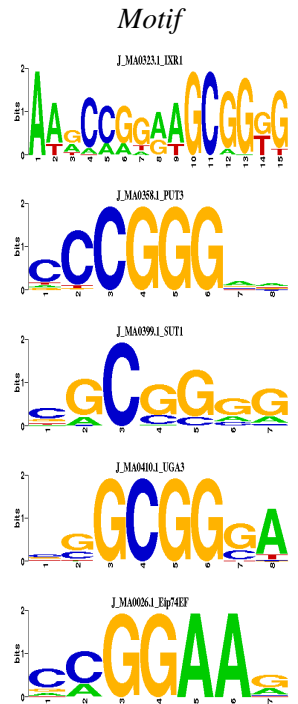
86



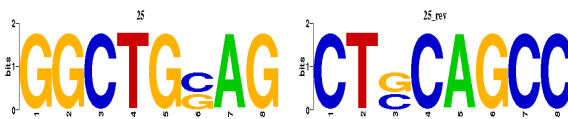
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
J_MA0323.1_IXR1	1.5102e-05	--CSCGGGAGCS--- AARCCGGAAGCGGK
J_MA0358.1_PUT3	9.7415e-05	--CSCGGGAGCS NNCCCGGG----
J_MA0399.1_SUT1	1.6093e-04	CSCGGGAGCS CGCGGGG----
J_MA0410.1_UGA3	2.4975e-04	SGCTCCCGSG-- ---TCCCGCCN
J_MA0026.1_Eip74EF	2.7079e-04	SGCTCCCGSG --YTCCGG--



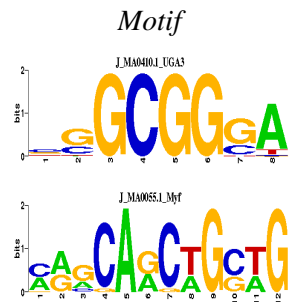
25



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
J_MA0410.1_UGA3	1.0626e-04	CTSCAGCC-- -TCCCGCCN
J_MA0055.1_Myf	1.5537e-04	CTSCAGCC---- CAGCAGYTGCK



J_MA0267.1_ACE2 2.7074e-03

GGCTGSAG
NGCTGGN-



J_MA0385.1_SOK2 3.3574e-03

--CTSCAGCC--
NNMTGCAKNNN



J_MA0402.1_SWI5 8.4067e-03

CTSCAGCC
NACCAGCA



98



forward

reverse compliment

Name

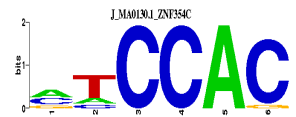
E value

Alignment

Motif

J_MA0130.1_ZNF354C 2.6819e-05

CTCCASCC
MTCCAC--



J_MA0373.1_RPN4 9.5396e-05

GGSTGGAG
-GGTGGCG



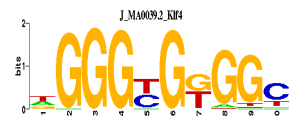
J_MA0410.1_UGA3 2.6409e-04

CTCCASCC--
-TCCGCCN



J_MA0039.2_Klf4 2.8699e-04

-CTCCASCC-
GCCMCRCCN

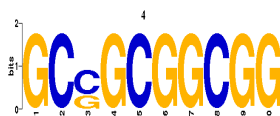


J_MA0283.1_CHA4 5.9150e-04

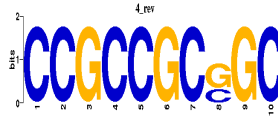
-CTCCASCC
NCTCCGCC-



4



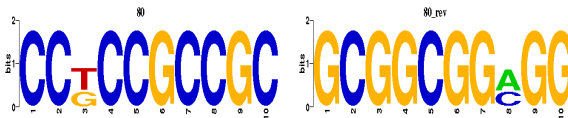
forward



reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0320.1_IME1	1.0165e-06	CCGCCGCGGC CCGCCGAG--	
J_MA0394.1_STP1	9.1139e-06	CCGCCGCGGC NMGCCGCR--	
J_MA0290.1_DAL81	2.4680e-05	----GCCGCGGCGG---- AAAAGCCGCGGGCGGGATT	
J_MA0353.1_PDR3	3.5621e-05	GCCGCGGCGG TCCGCGGA--	
J_MA0399.1_SUT1	3.5991e-05	CCGCCGCGGC -CCCCGCG--	

80



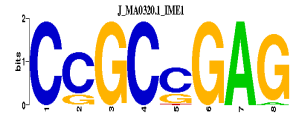
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	4.9125e-07	CCKCCGCCGC NCTCCGCC--	
J_MA0079.2_SP1	1.2970e-05	GCGGCGGMGG-- --GGGGNGGGG	

J_MA0320.1_IME1 2.4585e-05

-GCGGCGGMGG
CTCGGCGG---



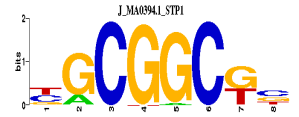
J_MA0162.1_Egr1 5.2321e-05

CCKCCGCCGC-
MCGCCCACGCN

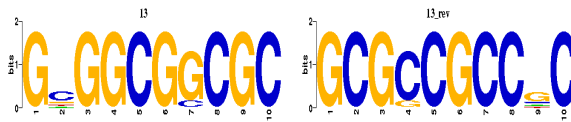


J_MA0394.1_STP1 7.3715e-05

CCKCCGCCGC-
---NMGCCGR



13



forward

reverse compliment

Name

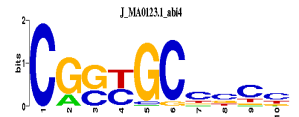
E value

Alignment

Motif

J_MA0123.1_abi4 1.5564e-06

-GCGGCGGCCG
NGNNGCRSCG-



J_MA0412.1_UME6 1.8456e-05

---GCGCCGCCG
AWWTAGCCGCCSA



J_MA0320.1_IME1 2.6174e-05

-GCGGCGGCCG
CTCGGCGG---



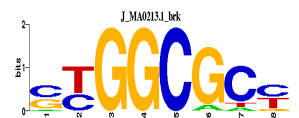
J_MA0373.1_RPN4 2.9290e-05

GCGCCGCCG
-CGCCACC--

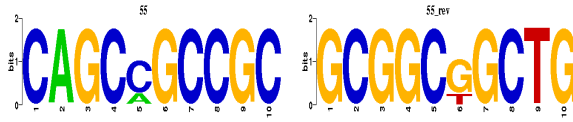


J_MA0213.1_brk 6.4445e-05

-GCGCCGCCG
RGCRCRS---



55

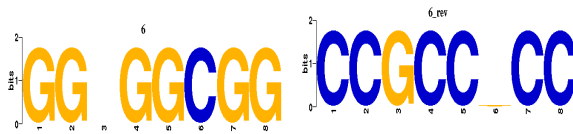


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0412.1_UME6	4.8854e-08	---CAGCCGCCGC AWWTAGCCGCCSA	
J_MA0394.1_STP1	2.5293e-05	CAGCCGCCGC- ---NMGCCGCR	
J_MA0055.1_Myf	3.8949e-05	CAGCCGCCGC-- CAGCAGYTGCYK	
J_MA0320.1_IME1	4.4142e-05	-GCGGCGGCTG CTCGGCGG---	
J_MA0290.1_DAL81	4.3347e-04	-----GCGGCGGCTG-- AATCCCGCCCGCGCTTTT	

6



forward

reverse compliment

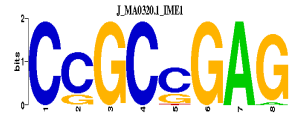
Name	E value	Alignment	Motif
J_MA0079.2_SP1	2.1093e-08	--CCGCCNCC CCCNCCCC	
J_MA0443.1_btd	3.0262e-08	-CCGCCNCC- YCCGCCMCN	

Stamp Results

11/22/15

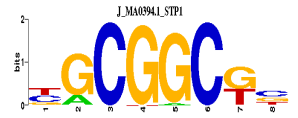
J_MA0320.1_IME1 1.1843e-05

GGNGCGG
CTCGGCGG



J_MA0394.1_STP1 3.8507e-05

CCGCCNCC
NMGCCGCR

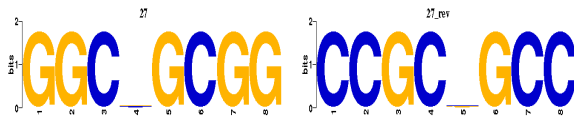


J_MA0373.1_RPN4 8.2855e-05

CCGCCNCC
-CGCCACC



27



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0320.1_IME1 2.1638e-06

GGCNGCGG
CTCGGCGG



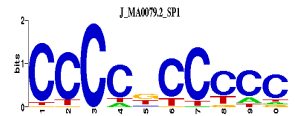
J_MA0443.1_btd 3.6727e-06

-GGCNGCGG-
NGKGGGCGGR



J_MA0079.2_SP1 5.7283e-06

GGCNGCGG--
GGGGNGGGG



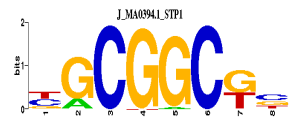
J_MA0373.1_RPN4 9.2865e-06

CCGCNGCC
-CGCCACC

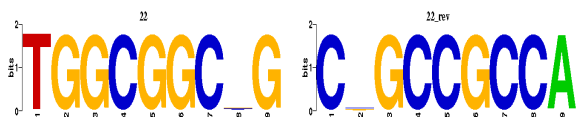


J_MA0394.1_STP1 1.6749e-05

CCGCNGCC
NMGCCGCR



22

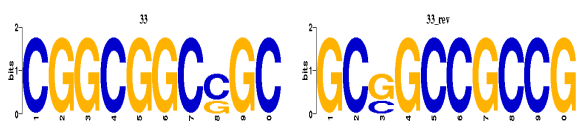


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0320.1_IME1	8.7084e-06	TGGCGGCNG -CTCGGCGG	
J_MA0443.1_btd	1.9405e-05	-CNGCCGCCA YCCGCCMCN	
J_MA0373.1_RPN4	2.8243e-05	CNGCCGCCA -CGCCACC-	
J_MA0079.2_SP1	3.1177e-05	TGGCGGCNG-- -GGGGGNGGGG	
J_MA0394.1_STP1	5.1253e-05	CNGCCGCCA NMGCCGCR-	

33

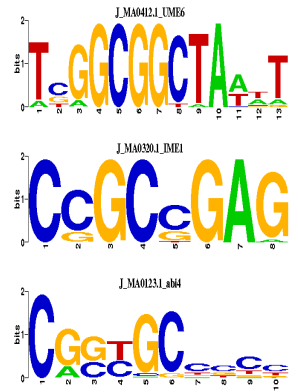


forward

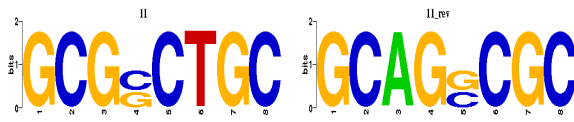
reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0361.1_RDS1	2.8390e-06	CGGCGGCCG --NCGGCCG-	
J_MA0429.1_YLL054C	3.4937e-06	GCGGCCGCCG NCGGCCG---	

J_MA0412.1_UME6	2.0220e-05	--GCGGCCGCG-- AWWTAGCCGCCSA
J_MA0320.1_IME1	2.4585e-05	--CGGCGGCCGC CTCGGCGG----
J_MA0123.1_abi4	3.9654e-04	CGGCGGCCGC CGSYGCNNCN



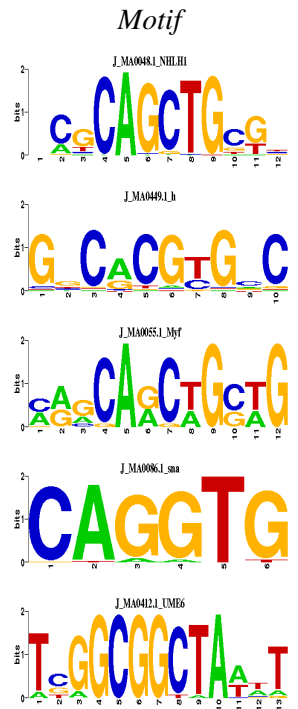
11



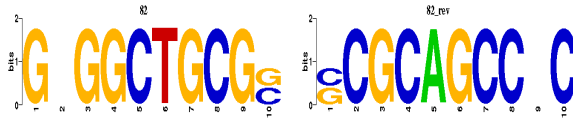
forward

reverse compliment

Name	E value	Alignment
J_MA0048.1_NHLH1	1.8763e-05	--GCGSCTGC-- NCGCAGCTGCGN
J_MA0449.1_h	9.1669e-04	-GCAGSCGC- GNCACGTGNC
J_MA0055.1_Myf	1.0472e-03	--GCGSCTGC-- CAGCAGYTGCYK
J_MA0086.1_sna	1.1573e-03	GCGSCTGC -CACCTG-
J_MA0412.1_UME6	1.2093e-03	--GCAGSCGC-- AWWTAGCCGCCSA



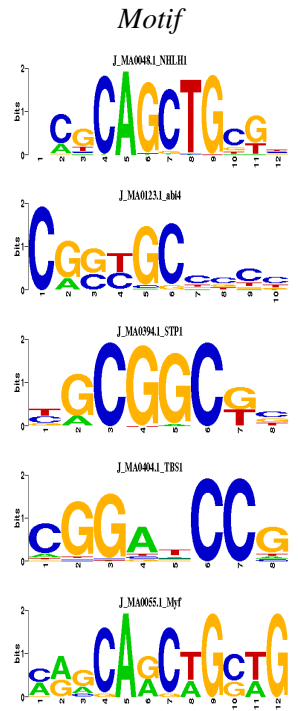
82



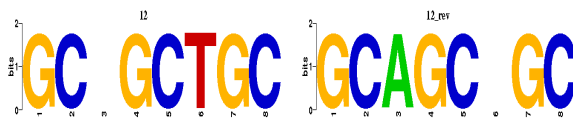
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
J_MA0048.1_NHLH1	1.3053e-07	--GNGGCTGCGS NCGCAGCTGCGN
J_MA0123.1_abi4	5.5325e-04	-GNGGCTGCGS NGNNGCRSCG-
J_MA0394.1_STP1	6.4903e-04	SCGCAGCCNC- ---NMGCCGCR
J_MA0404.1_TBS1	7.3660e-04	SCGCAGCCNC -CGNTCCG-
J_MA0055.1_Myf	1.0891e-03	SCGCAGCCNC-- CAGCAGYTGCYK



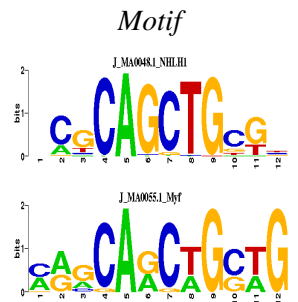
12



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>
J_MA0048.1_NHLH1	1.4854e-05	--GCNGCTGC-- NCGCAGCTGCGN
J_MA0055.1_Myf	2.6487e-05	--GCNGCTGC-- CAGCAGYTGCYK



J_MA0454.1_odd 7.5383e-04

--GCNGCTGC-
NTGCTACTGTN



J_MA0402.1_SWI5 1.1524e-03

--GCAGCNGC
NACCAGCA--

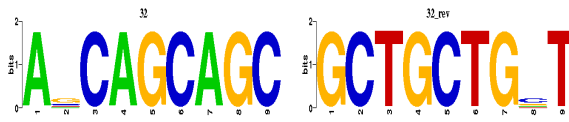


J_MA0287.1_CUP2 2.2231e-03

----GCNGCTGC
CWTTTYTGCTG-



32



forward

reverse complement

Name

E value

Alignment

Motif

J_MA0055.1_Myf 4.2058e-08

--GCTGCTGNT-
CAGCAGYTGCYK



J_MA0048.1_NHLH1 5.1081e-06

-ANCAGCAGC--
NCGCAGCTGCGN



J_MA0402.1_SWI5 2.5652e-05

GCTGCTGNT-
--TGCTGGTN



J_MA0454.1_odd 6.4817e-05

GCTGCTGNT---
-NTGCTACTGTN

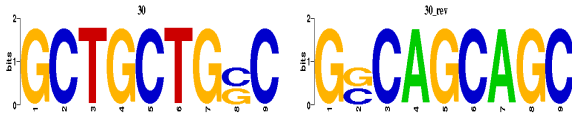


J_MA0287.1_CUP2 3.1341e-03

----GCTGCTGNT
CWTTTYTGCTG--



30

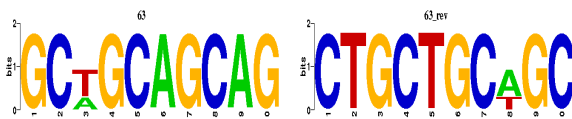


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	2.0672e-06	--GCTGCTGSC- CAGCAGYTGCYK	
J_MA0048.1_NHLH1	3.1968e-05	-GSCAGCAGC-- NCGCAGCTGCGN	
J_MA0402.1_SWI5	1.5626e-04	-GSCAGCAGC NACCAGCA--	
J_MA0111.1_Spz1	6.6274e-04	GCTGCTGSC-- GCTGWTACCCT	
J_MA0454.1_odd	9.1868e-04	--GCTGCTGSC NTGCTACTGTN	

63



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	2.0820e-06	CTGCTGCAGC-- CAGCAGYTGCYK	
J_MA0454.1_odd	1.6733e-04	CTGCTGCAGC- NTGCTACTGTN	

J_MA0048.1_NHLH1 2.1561e-03

--GCTGCAGCAG
NCGCAGCTGCGN



J_MA0402.1_SWI5 3.2660e-03

GCTGCAGCAG
-NACCAGCA-

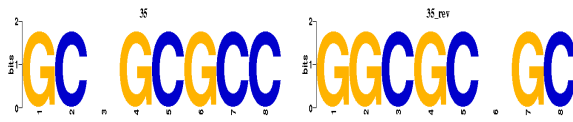


J_MA0287.1_CUP2 7.3360e-03

-----CTGCTGCAGC
CWTTTYTGCTG-----



35



forward

reverse compliment

Name

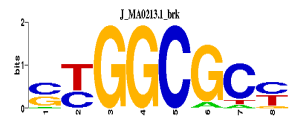
E value

Alignment

Motif

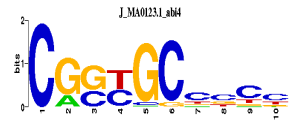
J_MA0213.1_brk 2.9292e-06

GCNGCGCC
SYGGCGCY



J_MA0123.1_abi4 3.2574e-05

---GGCGCNGC
NGNNGCRSCG-



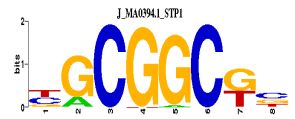
J_MA0384.1_SNT2 1.3183e-04

-GGCGCNGC--
NGGCGCTAYCA



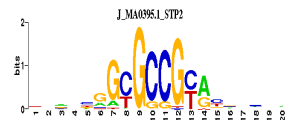
J_MA0394.1_STP1 3.1155e-04

GGCGCNGC-
-NMGCCGCR

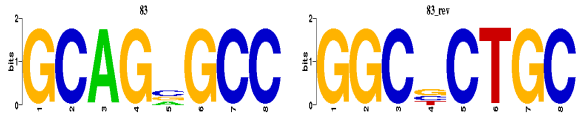


J_MA0395.1_STP2 3.8975e-04

-----GGCGCNGC-----
NNNNNRGCGCCGYANNNNNN



83

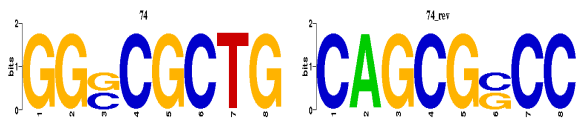


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0384.1_SNT2	2.0677e-05	-GGCNTGC-- NGGCGCTAYCA	
J_MA0138.2_REST	6.6814e-05	GGCNCTGC----- GNNGCTGTCCNNGGTGCTGAN	
J_MA0213.1_brk	5.9744e-04	GCAGNGCC-- --RGCGCCRS	
J_MA0316.1_HAP5	2.4713e-03	-----GCAGNGCC-- ACCAATNAGMNNSSN	
J_MA0138.1_REST	4.5616e-03	-----GGCNTGC GNGCTGTCCNWGGTGCTGA	

74



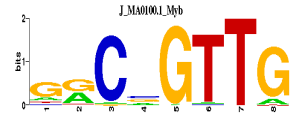
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0123.1_abi4	2.6642e-05	CAGCGSCC-- CGSYGCNNCN	
J_MA0138.2_REST	3.2575e-05	GGSCGCTG----- -GNNGCTGTCCNNGGTGCTGAN	

J_MA0100.1_Myb 1.8535e-04

GGSCGCTG
GRCNGTTG



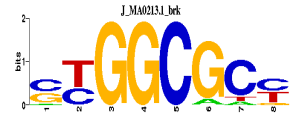
J_MA0384.1_SNT2 1.9377e-04

GGSCGCTG---
NGGCGCTAYCA

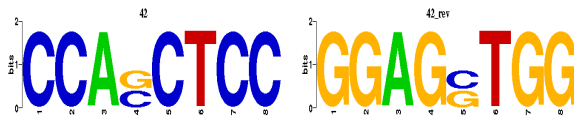


J_MA0213.1_brk 5.0185e-04

CAGCGSCC-
-RGCGCCRS



42



forward

reverse compliment

Name

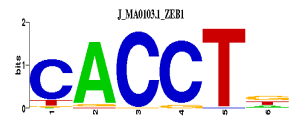
E value

Alignment

Motif

J_MA0103.1_ZEB1 3.8981e-04

GGAGSTGG
-NAGGTG-



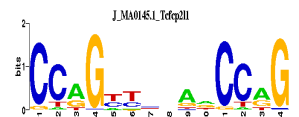
J_MA0086.1_sna 4.8188e-04

CCASCTCC
-CACCTG-



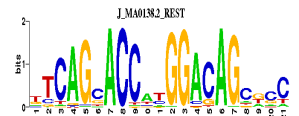
J_MA0145.1_Tcfcp211 7.3584e-04

-----GGAGSTGG
CYGGNTNNRNCYGG



J_MA0138.2_REST 9.1241e-04

GGAGSTGG-----
GNNGCTGTCNNGGTGCTGAN

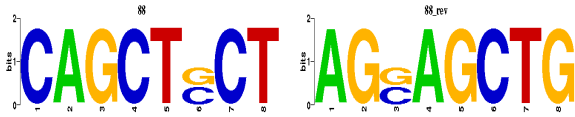


J_MA0267.1_ACE2 1.2929e-03

GGAGSTGG-
--NGCTGGN



88

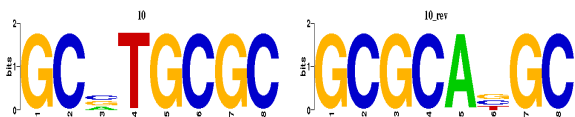


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0055.1_Myf	2.2902e-07	---CAGCTSCT- CAGCAGYTGCK	
J_MA0048.1_NHLH1	8.0006e-07	-AGSAGCTG--- NCGCAGCTGCGN	
J_MA0138.2_REST	5.0121e-04	AGSAGCTG----- -GNNGCTGTCCNNGGTGCTGAN	
J_MA0086.1_sna	1.9853e-03	CAGCTSCT CACCTG--	
J_MA0316.1_HAP5	4.6010e-03	-----CAGCTSCT- ACCAATNAGMNNSSN	

10



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0162.1_Egr1	5.9747e-05	--GCGCANGC- MCGCCACGCN	
J_MA0291.1_DAL82	9.5703e-04	GCGCANGC- GCGCANWWN	

J_MA0006.1_Arnt_Ahr 1.3575e-03

GCGCANGC-
---CACGCN



J_MA0449.1_h 1.9392e-03

-GCNTGCGC-
GNCACGTGNC

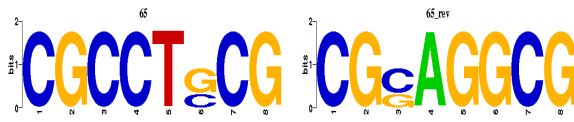


J_MA0375.1_RSC30 3.1154e-03

GCNTGCGC-
-CGCGCGSN



65



forward

reverse compliment

Name

E value

Alignment

Motif

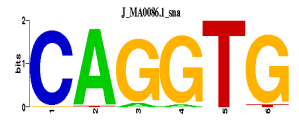
J_MA0290.1_DAL81 1.5087e-05

-----CGCCTGCG-----
AATCCCGCCCGCGGCTTTT



J_MA0086.1_sna 4.5944e-04

CGCCTGCG
CACCTG--



J_MA0373.1_RPN4 5.1367e-04

CGCCTGCG
CGCCACC-



J_MA0162.1_Egr1 8.8713e-04

-CGCCTGCG--
MCGCCACGCN

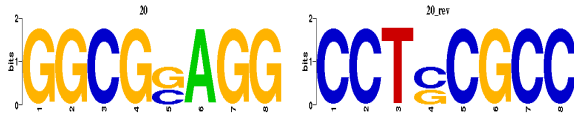


J_MA0090.1_TEAD1 2.2458e-03

CGCAGGCG----
CNSWGGAAATGTR



20

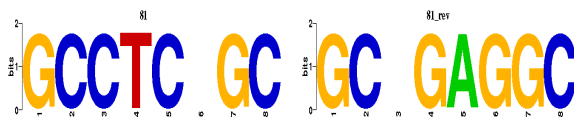


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	1.2655e-08	GGCGSAGG GGCGGAGN	
J_MA0079.2_SP1	7.0038e-05	GGCGSAGG-- GGGGGNGGGG	
J_MA0131.1_MIZF	6.3140e-04	GGCGSAGG--- -GCGGACGTTN	
J_MA0090.1_TEAD1	6.9409e-04	GGCGSAGG----- --CNSWGAATGTR	
J_MA0443.1_btd	8.1129e-04	CCTSCGCC---- --YCCGCCMCN	

81



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0283.1_CHA4	6.1204e-06	GCCTCNGC- -NCTCCGCC	
J_MA0162.1_Egr1	1.9860e-04	--GCCTCNGC- MCGCCCACGCN	

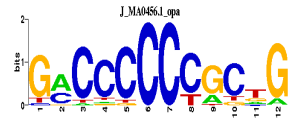
J_MA0131.1_MIZF 3.0255e-04

--GCCTCNGC
NAACGTCCGC



J_MA0456.1_opa 4.3262e-04

--GCCTCNGC--
GMCCCCCGCNG

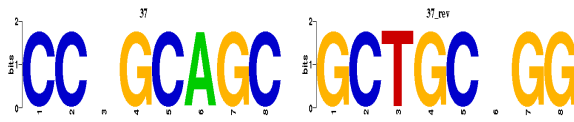


J_MA0311.1_HAL9 7.2268e-04

GCCTCNGC
--TTCCG--



37



forward

reverse compliment

Name

E value

Alignment

Motif

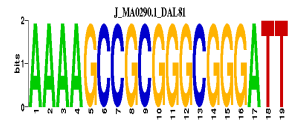
J_MA0055.1_Myf 1.4409e-04

-----GCTGCNNG
MRGCARCTGCTG--



J_MA0290.1_DAL81 3.7163e-04

----GCTGCNNG-----
AAAAGCCGCGGGCGGGATT



J_MA0402.1_SWI5 4.4970e-04

--CCNGCAGC
NACCAGCA--



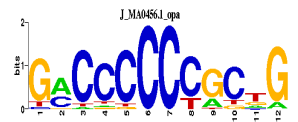
J_MA0048.1_NHLH1 1.2746e-03

CCNGCAGC-----
-NCGCAGCTGCGN

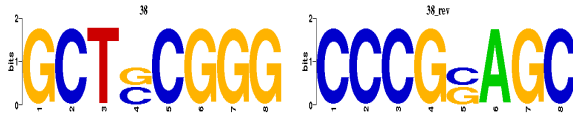


J_MA0456.1_opa 3.3981e-03

GCTGCNNG-----
-CNGCGGGGGGKC



38

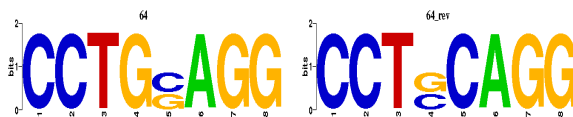


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0290.1_DAL81	6.7779e-05	-----CCCGSAGC----- AATCCCGCCCGCGGCTTTT	
J_MA0003.1_TFAP2A	7.8357e-05	GCTSCGGG- SCNNNNGGC	
J_MA0280.1_CAT8	3.9075e-04	GCTSCGGG -NTCCGG-	
J_MA0275.1_ASG1	4.5657e-04	CCCGSAGC -CCGGAW-	
J_MA0048.1_NHLH1	6.5140e-04	CCCGSAGC----- -NCGCAGCTGCGN	

64



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0139.1_CTCF	9.4234e-05	-----CCTGSAGG--- NNSYGCCMCTRSTGGNNR	
J_MA0144.1_Stat3	8.2499e-04	---CCTGSAGG CTTCCNGGAA-	

J_MA0385.1_SOK2 3.2832e-03

--CCTGSAGG--
NNNMTGCAKNN



J_MA0055.1_Myf 4.7312e-03

CCTSCAGG-----
-CAGCAGYTG CYK

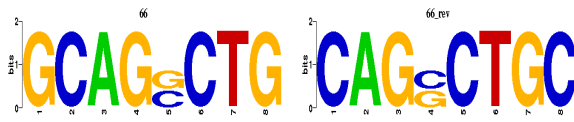


J_MA0086.1_sna 6.4886e-03

--CCTGSAGG
CACCTG----



66



forward

reverse compliment

Name

E value

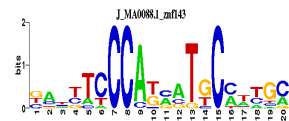
Alignment

Motif

J_MA0088.1_znf143

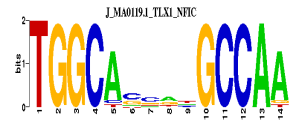
4.2380e-03

-----GCAGSCTG-----
KCNNKGMANNMTGGANNNN



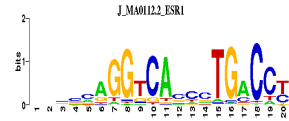
J_MA0119.1_TLX1_NFIC 4.4948e-03

---GCAGSCTG---
TTGGCNNNSTGCCA



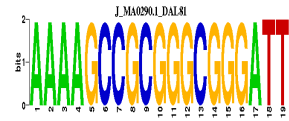
J_MA0112.2_ESR1 5.0711e-03

---GCAGSCTG-----
RGGTCANNNTGACCTNNNNN



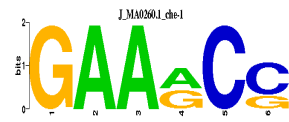
J_MA0290.1_DAL81 2.5995e-02

----CAGSCTGC-----
AATCCC GCCCGCGCTTTT

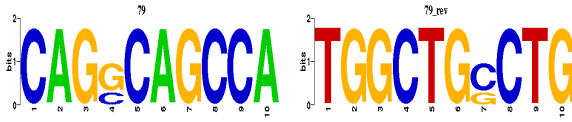


J_MA0260.1_che-1 2.8871e-02

GCAGSCTG
GAARCC--



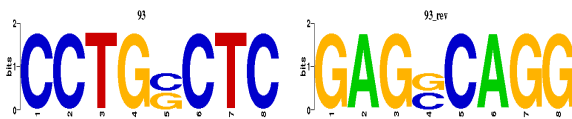
79



forward *reverse compliment*

Name	E value	Alignment	Motif
J_MA0340.1_MOT3	2.4878e-04	TGGCTGCCTG ----TRCCTN	
J_MA0304.1_GCR1	2.5652e-04	TGGCTGCCTG -GGCTTCCA-	
J_MA0119.1_TLX1_NFIC	1.6665e-03	----CAGGCAGCCA TTGGCNNNSTGCCA	
J_MA0156.1_FEV	3.0546e-03	TGGCTGCCTG --AYTTCTG	
J_MA0144.1_Stat3	3.9628e-03	TGGCTGCCTG--- ---CTTCNGGAA	

93

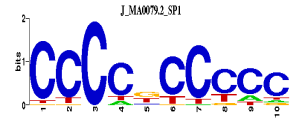


forward *reverse compliment*

Name	E value	Alignment	Motif
J_MA0340.1_MOT3	2.6157e-03	CCTGSCTC --TRCCTN	
J_MA0213.1_brk	3.5599e-03	-GAGSCAGG RGCGCCRS-	

J_MA0079.2_SP1 4.9524e-03

-GAGSCAGG-
GGGGGNGGGG



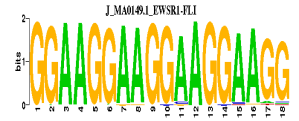
J_MA0099.2_API 5.0902e-03

-GAGSCAGG
TGAGTCA--



J_MA0149.1_EWSR1-FLI 6.3453e-03

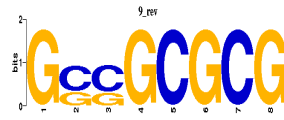
-----CCTGSCTC-----
CCTTCTTCCTTCTCTCC



9



forward



reverse compliment

Name

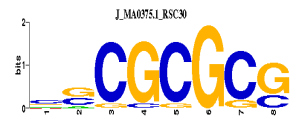
E value

Alignment

Motif

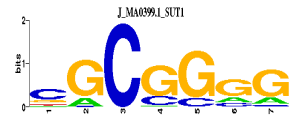
J_MA0375.1_RSC30 9.5026e-09

CGCGCGGC
CGCGCGSN



J_MA0399.1_SUT1 1.1139e-05

GCCGCGCG
-CCCCGCG



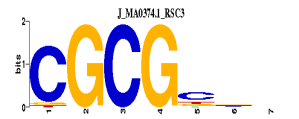
J_MA0290.1_DAL81 3.1805e-05

-----CGCGCGGC-----
AATCCC GCCCGCGGCTTTT



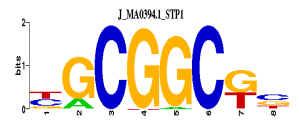
J_MA0374.1_RSC3 2.1647e-04

GCCGCGCG
-NNNCGCG

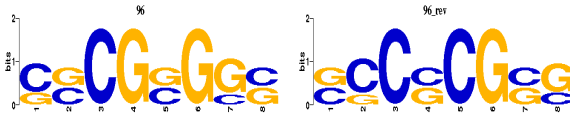


J_MA0394.1_STP1 2.5054e-04

--GCCGCGCG
NMGCCGCR--



96

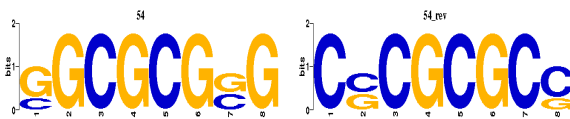


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0399.1_SUT1	1.2666e-07	SCCSCGSG -CCCCGCG	
J_MA0375.1_RSC30	1.0919e-06	CSCGSGGS CGCGCGSN	
J_MA0003.1_TFAP2A	1.8442e-06	SCCSCGSG- SCNNNNGGC	
J_MA0290.1_DAL81	1.0372e-05	-----CSCGSGGS----- AATCCCGCCCGCGGCTTTT	
J_MA0337.1_MIG1	9.0564e-05	CSCGSGGS -SYGGGN	

54



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0375.1_RSC30	5.8986e-08	GGCGCGSG CGCGCGSN	
J_MA0399.1_SUT1	1.7280e-06	-CSCGCGCC CCCCGCG--	

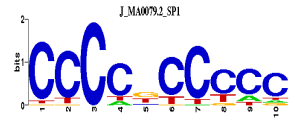
J_MA0290.1_DAL81 5.7253e-05

-----CSCGCGCC-----
AATCCC GCCCGCGGCTTTT



J_MA0079.2_SP1 8.0706e-05

-GGCGCGSG-
GGGGNGGGG

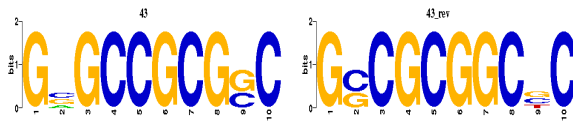


J_MA0449.1_h 1.4817e-04

GGCGCGSG--
GNCACGTGNC



43



forward

reverse compliment

Name

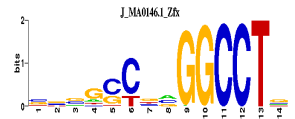
E value

Alignment

Motif

J_MA0146.1_Zfx 3.7767e-06

-GNGCCGCGSC---
NAGGCCNNGGCNNN



J_MA0394.1_STP1 1.3945e-05

GNGCCGCGSC
NMGCCGCR--



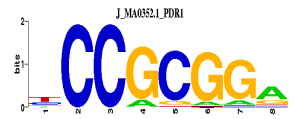
J_MA0353.1_PDR3 6.4821e-05

GNGCCGCGSC
--TCCGCGGA



J_MA0352.1_PDR1 7.2382e-05

GNGCCGCGSC
--TCCGCGGN

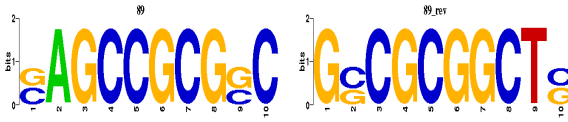


J_MA0290.1_DAL81 1.7621e-04

-----GNGCCGCGSC-----
AATCCC GCCCGCGGCTTTT



89

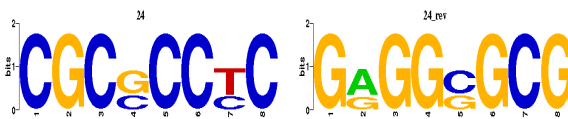


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0290.1_DAL81	7.7439e-07	-----GSCGCGGCTS-- AATCCC GCCCGCGGCTTTT	
J_MA0394.1_STP1	2.9806e-05	SAGCCGCGSC NMGCCGCR--	
J_MA0146.1_Zfx	3.7666e-05	-SAGCCGCGSC--- NAGGCCNNGGCNNN	
J_MA0353.1_PDR3	6.4821e-05	SAGCCGCGSC --TCCGCGGA	
J_MA0352.1_PDR1	7.2382e-05	SAGCCGCGSC --TCCGCGGN	

24



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0443.1_btd	2.4773e-05	GAGGSGCG-- NGKGGGCGGR	
J_MA0450.1_hkb	2.7095e-05	-CGCSCCTC TCACGCCCM	

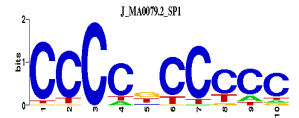
J_MA0341.1_MSN2 2.4661e-04

CGCSCCTC
--CCCCT--



J_MA0079.2_SP1 2.7630e-04

-GAGGSGCG-
GGGGGNGGGG

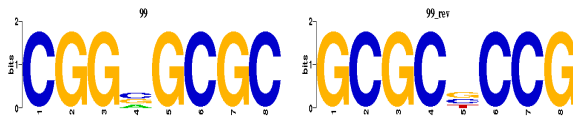


J_MA0342.1_MSN4 3.4995e-04

CGCSCCTC
--CCCCT--



99



forward

reverse compliment

Name

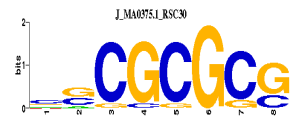
E value

Alignment

Motif

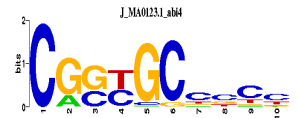
J_MA0375.1_RSC30 7.0099e-05

CGGNGCGC-
-CGCGCSN



J_MA0123.1_abi4 2.4252e-04

--GCGNCCG
CGSYGCNNCN



J_MA0213.1_brk 8.4688e-04

GCGNCCG-
-RGCGCCRS



J_MA0443.1_btd 1.3799e-03

-GCGNCCG-
YCCGCCMCN

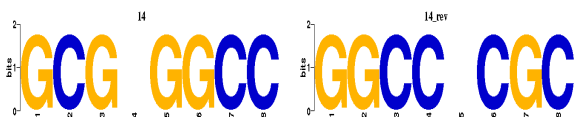


J_MA0450.1_hkb 1.4163e-03

--GCGNCCG
TCACGCCM-

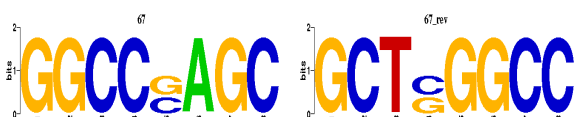


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*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0399.1_SUT1	2.6012e-06	-GCGNGGCC CGCGGGG--	
J_MA0338.1_MIG2	1.0714e-05	-GCGNGGCC NGYGGG--	
J_MA0339.1_MIG3	1.5089e-05	-GCGNGGCC NGYGGG--	
J_MA0039.2_Klf4	3.8070e-05	GGCCNCG--- -GCCMCRCCC	
J_MA0337.1_MIG1	5.8687e-05	GCGNGGCC SYGGGN-	

67

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0320.1_IME1	2.1125e-05	GCTSGGCC- -CTCGGCGG	
J_MA0283.1_CHA4	2.5459e-04	GCTSGGCC NCTCCGCC	

Stamp Results

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J_MA0146.1_Zfx 7.7916e-04

----GCTSGGCC--
NNNGCCNNGGCTN



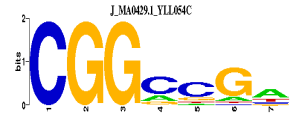
J_MA0361.1_RDS1 8.2291e-04

GCTSGGCC--
--NCGGCCG

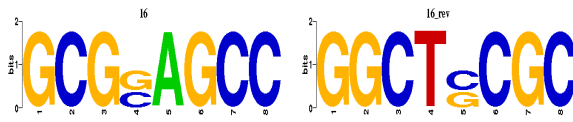


J_MA0429.1_YLL054C 1.5143e-03

--GGCCSAGC
NCGGCCG---



16



forward

reverse compliment

Name

E value

Alignment

Motif

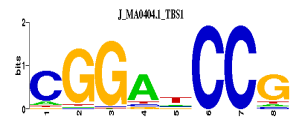
J_MA0283.1_CHA4 1.9023e-05

GGCTSCGC--
-NCTCCGCC



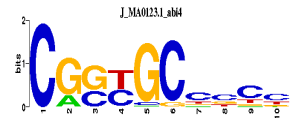
J_MA0404.1_TBS1 7.8576e-05

GCGSAGCC--
-CGGNTCCG



J_MA0123.1_abi4 6.1329e-04

---GGCTSCGC
NGNNGCRSCG-



J_MA0399.1_SUT1 1.2355e-03

GGCTSCGC--
--CCCCGCG

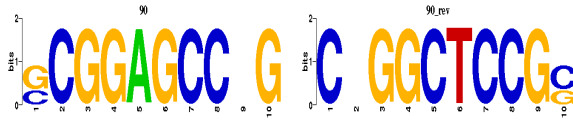


J_MA0048.1_NHLH1 1.4156e-03

----GGCTSCGC
NCGCAGCTGCGN



90

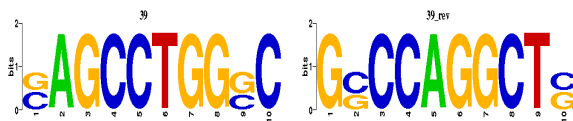


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0404.1_TBS1	8.3384e-07	SCGGAGCCNG -CGNTCCG-	
J_MA0324.1_LEU3	4.6152e-06	SCGGAGCCNG CCGNNNMGG	
J_MA0283.1_CHA4	8.7161e-05	-SCGGAGCCNG GGCGGAGN---	
J_MA0213.1_brk	1.7234e-04	CNGGCTCCGS --RGCRCRS	
J_MA0311.1_HAL9	9.1987e-04	CNGGCTCCGS ----TTCCG-	

39



forward

reverse compliment

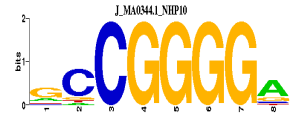
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0162.1_Egr1	1.2657e-04	--GCCAGGCTS MCGCCACGCN-	
J_MA0146.1_Zfx	1.4552e-04	-SAGCCTGGSC--- NAGGCCNNGCENN	

Stamp Results

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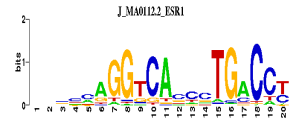
J_MA0344.1_NHP10 4.3280e-04

GSCCAGGCTS
TCCCCGGN--



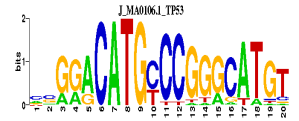
J_MA0112.2_ESR1 1.2903e-03

--GSCCAGGCTS-----
RGGTCANNNTGACCTNNNNN

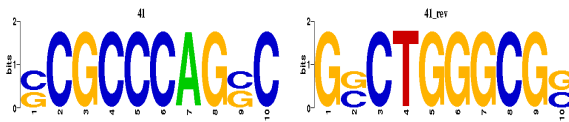


J_MA0106.1_TP53 4.3232e-03

-----SAGCCTGGSC-----
NNGGACATGCCCGGGCATGT



41



forward

reverse compliment

Name

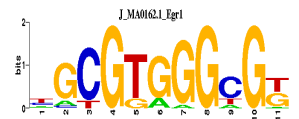
E value

Alignment

Motif

J_MA0162.1_Egr1 1.1565e-06

SCGCCCAGSC-
MCGCCCACGCN



J_MA0320.1_IME1 2.3136e-06

SCGCCCAGSC
CCGCCGAG--



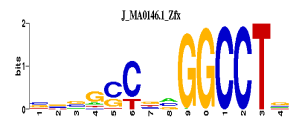
J_MA0344.1_NHP10 1.0576e-03

SCGCCCAGSC
--TCCCCGGN



J_MA0146.1_Zfx 1.4789e-03

---GSCTGGGCGS-
NAGGCCNNGCNNN

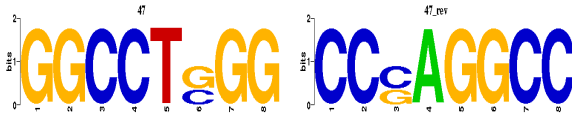


J_MA0443.1_btd 2.4363e-03

GSCTGGGCGS-
-NGKGGGCGGR



47

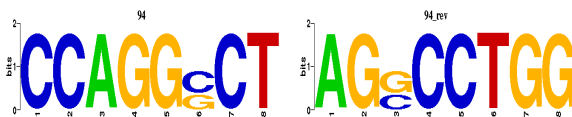


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	1.5685e-07	--GGCCTSGG----	
J_MA0344.1_NHP10	6.1051e-05	-CCSAGGCC TCCCCGGN-	
J_MA0003.1_TFAP2A	3.1763e-04	--CCSAGGCC SCNNNNGGC-	
J_MA0162.1_Egr1	1.3322e-03	---CCSAGGCC MCGCCACGCN	
J_MA0155.1_INSM1	4.7036e-03	----CCSAGGCC YGCCCCCTGRCA	

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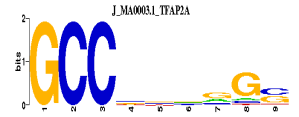
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0146.1_Zfx	9.7505e-06	-----CCAGGSCT-	
J_MA0403.1_TBF1	3.2551e-03	CCAGGSCT NTAGGGYT	

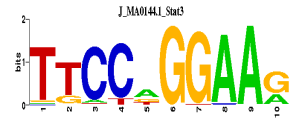
J_MA0003.1_TFAP2A 3.5480e-03

--CCAGGSCT
SCNNNGGC-



J_MA0144.1_Stat3 4.4246e-03

AGSCCTGG--
CTTCNGGAA

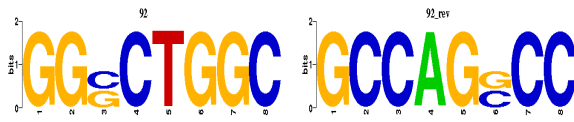


J_MA0364.1_REI1 4.6879e-03

CCAGGSCT
NCAGGG-



92



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0267.1_ACE2 1.8971e-03

GGCTGGC
-NGCTGGN



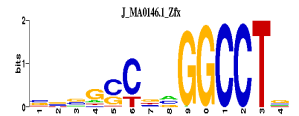
J_MA0039.2_Klf4 2.1254e-03

GCCAGSCC--
GCCMCRCCCN



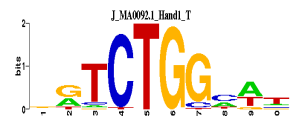
J_MA0146.1_Zfx 2.5286e-03

----GCCAGSCC--
NNNGCCNNGGCTN



J_MA0092.1_Hand1_T 2.8372e-03

--GCCAGSCC
NWNCCAGAYN

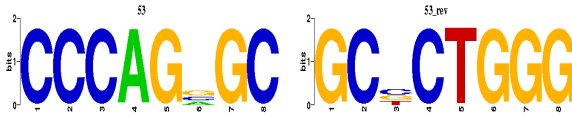


J_MA0402.1_SWI5 5.0483e-03

-GCCAGSCC
NACCAGCA-



53

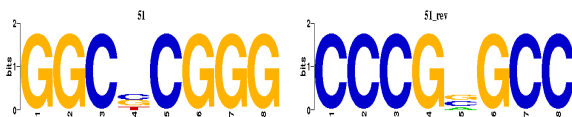


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0003.1_TFAP2A	6.4079e-06	-CCCAGNGC SCNNNNGGC	
J_MA0154.1_EBF1	3.9106e-05	GCNCTGGG-- TCCCTNGGGN	
J_MA0116.1_Zfp423	4.0085e-04	---GCNCTGGG--- GNMMCCYTRGGKSC	
J_MA0364.1_REI1	2.1160e-03	CCCAGNGC -NCAGGGG	
J_MA0163.1_PLAG1	2.7618e-03	---CCCAGNGC--- CCCCCTTNGGCCCC	

51



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0358.1_PUT3	3.4188e-05	--CCCGNGCC NNCCGGG--	
J_MA0106.1_TP53	7.5881e-05	-----CCCGNGCC----- ACATGCCCGGGCATGTCCNN	

Stamp Results

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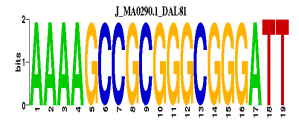
J_MA0399.1_SUT1 7.9981e-05

-CCCGNGCC
CCCCGCG--



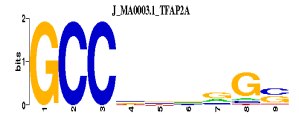
J_MA0290.1_DAL81 1.3705e-04

-----CCCGNGCC-----
AATCCCGCCCGCGGCTTTT

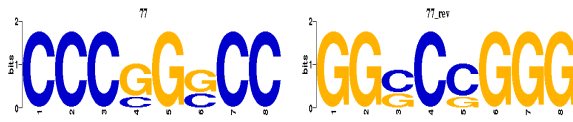


J_MA0003.1_TFAP2A 1.3941e-04

-CCCGNGCC
SCNNNNGGC



77



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0344.1_NHP10 5.9305e-06

GGSCCGGG-
-NCCGGGGA



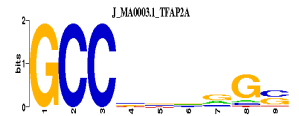
J_MA0358.1_PUT3 8.7843e-06

GGSCCGGG
NNCCCGGG



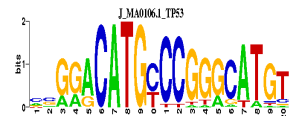
J_MA0003.1_TFAP2A 3.1899e-05

--CCCGGSCC
SCNNNNGGC-



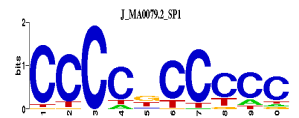
J_MA0106.1_TP53 4.4835e-05

-----CCCGGSCC-----
NNGGACATGCCCGGGCATGT

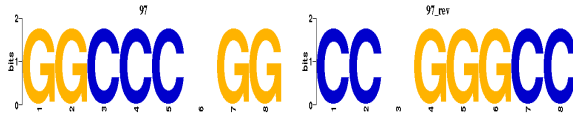


J_MA0079.2_SP1 6.4025e-05

--GGSCCGGG
GGGGNGGGG



97

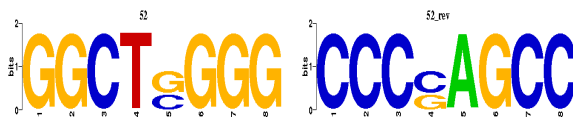


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0358.1_PUT3	2.0402e-06	--CCNGGGCC NNCCCGG--	
J_MA0106.1_TP53	5.3002e-06	---GGCCNNG----- ACATGCCCGGGCATGTCCNN	
J_MA0344.1_NHP10	2.2304e-05	--CCNGGGCC TCCCCGGN--	
J_MA0146.1_Zfx	2.8961e-05	--GGCCNNG---- NAGGCCNNGGCNNN	
J_MA0003.1_TFAP2A	4.8244e-05	--CCNGGGCC SCNNNNGGC	

52



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0344.1_NHP10	6.8802e-05	--CCCSAGCC TCCCCGGN--	
J_MA0039.2_Klf4	9.5638e-05	--CCCSAGCC-- GCCMCRCN	

J_MA0079.1_SP1 1.8958e-04

CCCSAGCC--
ACCCNGCCNN



J_MA0267.1_ACE2 7.3723e-04

CCCSAGCC
-NCCAGCN

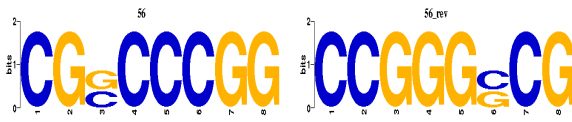


J_MA0332.1_MET28 7.7611e-04

CCCSAGCC
CCACAG--



56



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0344.1_NHP10 4.2420e-05

CGSCCCGG--
-TCCCCGGN



J_MA0443.1_btd 4.6981e-04

--CGSCCCGG
YCCGCCMCN



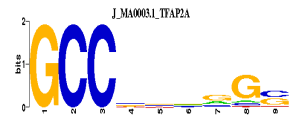
J_MA0450.1_hkb 4.7707e-04

---CGSCCCGG
TCACGCCCM--



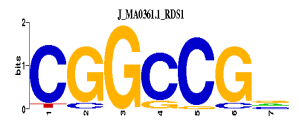
J_MA0003.1_TFAP2A 5.2275e-04

--CCGGGSCG
SCNNNGGC-

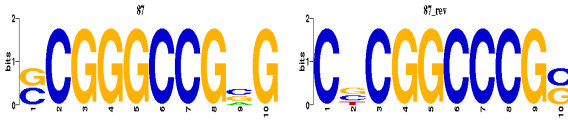


J_MA0361.1_RDS1 5.5330e-04

-CGSCCCGG
NCGCCG--



87

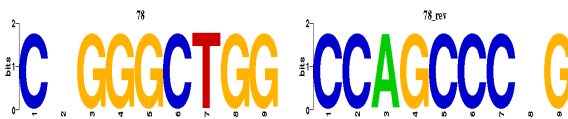


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0276.1_ASH1	2.2925e-04	CNCGGCCCGS CCYGATNYGG	
J_MA0290.1_DAL81	4.1822e-04	--CNCGGCCCGS----- AATCCCGCCCGCGGCTTTT	
J_MA0344.1_NHP10	5.8078e-04	--CNCGGCCCGS TCCCCGN----	
J_MA0361.1_RDS1	7.7218e-04	SCGGGCCGNG -NCGGCCG--	
J_MA0429.1_YLL054C	9.0202e-04	SCGGGCCGNG -NCGGCCG--	

78



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0079.2_SP1	2.2882e-04	CNNGGCTGG- GGGGNNGGG	
J_MA0267.1_ACE2	3.9729e-04	-CCAGCCNG NCCAGCN---	

J_MA0290.1_DAL81 9.6233e-04

-----CNGGGCTGG---
AAAAGCCGCGGGCGGGATT



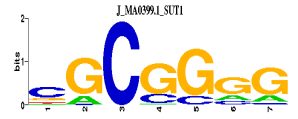
J_MA0402.1_SWI5 1.5039e-03

--CCAGCCCNG
NACCAGCA---

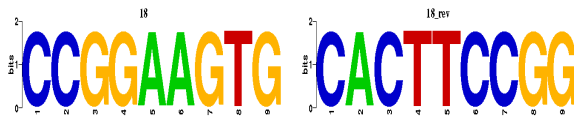


J_MA0399.1_SUT1 2.1863e-03

CCAGCCCNG--
----CCCCGCG



18



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0062.2_GABPA 1.9096e-14

--CACTTCCGG
NNCACTTCCGG



J_MA0076.1_ELK4 1.4762e-11

CACTTCCGG-
-ACTTCCGGT



J_MA0062.1_GABPA 1.9587e-11

CACTTCCGG-
SNCTTCCGGT



J_MA0026.1_Eip74EF 5.1978e-10

CACTTCCGG
--YTTCGG

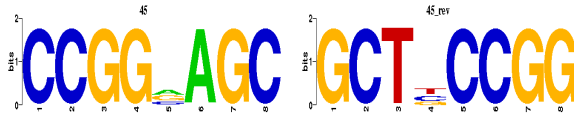


J_MA0156.1_FEV 2.1456e-07

CACTTCCGG
-AYTTCCT



45

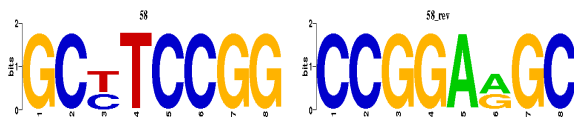


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0323.1_IXR1	1.7373e-09	----GCTNCCGG--- CMCCGCTTCCGGYTT	
J_MA0026.1_Eip74EF	1.2516e-08	GCTNCCGG -YTCCGG	
J_MA0076.1_ELK4	9.8232e-08	GCTNCCGG- ACTTCCGGT	
J_MA0062.1_GABPA	5.8004e-07	-GCTNCCGG- SNCTTCCGGT	
J_MA0062.2_GABPA	1.0304e-06	---GCTNCCGG NNCACTTCCGG	

58



forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0026.1_Eip74EF	1.7114e-09	CCGGARGC CCGGAAR-	
J_MA0323.1_IXR1	2.6377e-08	----GCTNCCGG--- CMCCGCTTCCGGYTT	

J_MA0076.1_ELK4 3.2248e-08

GCYTCCGG-
ACTTCCGGT



J_MA0062.1_GABPA 1.1262e-07

-CCGGARGC-
ACCGGAAGNS



J_MA0062.2_GABPA 2.1225e-07

---GCYTCCGG
NNCACTTCCGG



57



forward

reverse compliment

Name

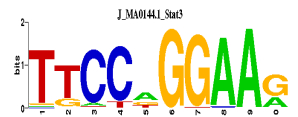
E value

Alignment

Motif

J_MA0144.1_Stat3 1.0128e-05

CTNCCTGC--
CTTCCNGGAA



J_MA0156.1_FEV 1.2844e-05

-CTNCCTGC
AYTTCCTG-



J_MA0026.1_Eip74EF 4.5773e-05

CTNCCTGC
YTCCGG-



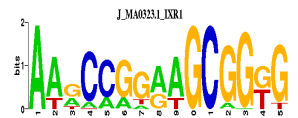
J_MA0080.2_SPI1 4.8872e-05

-CTNCCTGC
ACTTCCT--

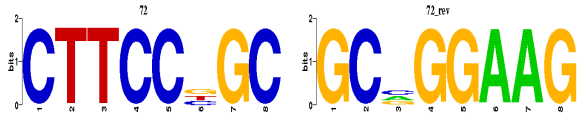


J_MA0323.1_IXR1 9.4939e-05

--GCAGGNAG-----
AARCCGGAAGCGGKG



72

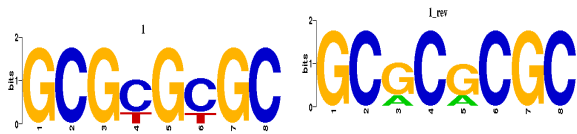


forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0026.1_Eip74EF	2.2097e-09	GCNGGAAG -CCGGAAR	
J_MA0323.1_IXR1	1.0943e-07	-----CTTCCNGC-- CMCCGCTTCCGGYTT	
J_MA0076.1_ELK4	3.4663e-07	-CTTCCNGC ACTTCCGGT	
J_MA0062.1_GABPA	4.6065e-07	--CTTCCNGC SNCTTCCGGT	
J_MA0156.1_FEV	1.1945e-06	-CTTCCNGC AYTTCCTG-	

1



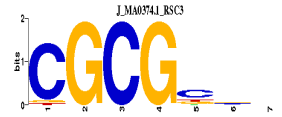
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0375.1_RSC30	4.7706e-08	GCGCGCGC- -CGCGCGSN	
J_MA0449.1_h	1.0262e-06	-GCGCGCGC- GNCACGTGNC	

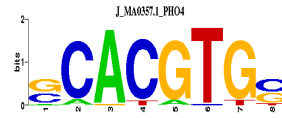
J_MA0374.1_RSC3 2.9819e-04

GCGCGCGC
NNNCGCG-



J_MA0357.1_PHO4 3.5922e-04

GCGCGCGC
SCACGTGS

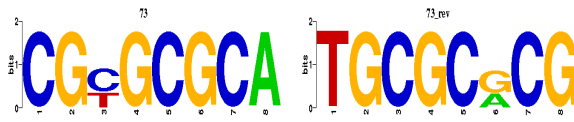


J_MA0405.1_TEA1 4.4637e-04

GCGCGCGC
NWGYSCGC



73



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0375.1_RSC30 9.7602e-08

CGYGCGCA
CGCGGSN



J_MA0405.1_TEA1 2.8268e-05

-TGCGCRCG
NWGYSCGC-



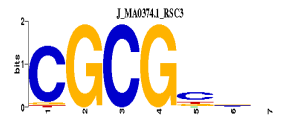
J_MA0291.1_DAL82 1.0060e-04

TGCGCRCG--
-GCGCANWWN



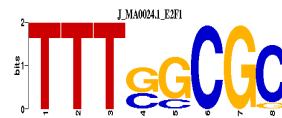
J_MA0374.1_RSC3 6.9212e-04

-TGCGCRCG
NNNCGCG--



J_MA0024.1_E2F1 2.1778e-03

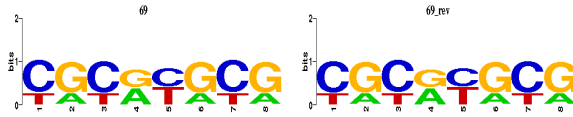
-TGCGCRCG
TTTSGCGC-



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Stamp Results

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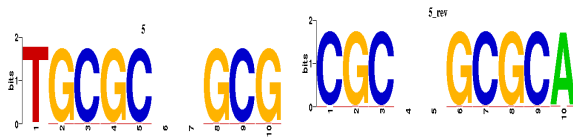


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0375.1_RSC30	1.1329e-04	CGCRYGCG CGCGGSN	
J_MA0449.1_h	1.9314e-04	--CGCRYGCG GNCACGTGNC	
J_MA0147.1_Myc	1.3377e-03	--CGCRYGCG NCCACGTGSN	
J_MA0290.1_DAL81	1.5115e-03	-----CGCRYGCG----- AATCCC GCCCGCGGCTTTT	
J_MA0357.1_PHO4	2.9450e-03	-CGCRYGCG SCACGTGS-	

5



forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0162.1_Egr1	4.2887e-03	-CGC NNGCGCA MCGCCACGCN	
J_MA0290.1_DAL81	5.7927e-03	---TGCGC NNGCG----- AATCCC GCCCGCGGCTTTT	

Stamp Results

11/22/15

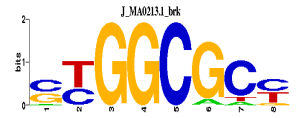
J_MA0291.1_DAL82 9.4498e-03

CGCNGCGCA----
-----GCGCANWWN



J_MA0213.1_brk 1.0057e-02

TGCGCNGCG
RGCCCR--

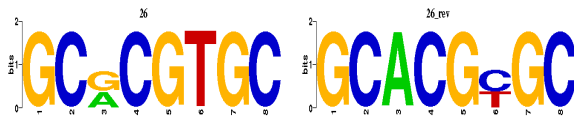


J_MA0449.1_h 1.4608e-02

TGCGCNGCG
GNCACGTGNC



26



forward

reverse compliment

Name

E value

Alignment

Motif

J_MA0449.1_h 5.0299e-11

-GRCGTGC-
GNCACGTGNC



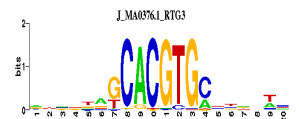
J_MA0357.1_PHO4 1.0201e-09

GRCGTGC
SCACGTGS



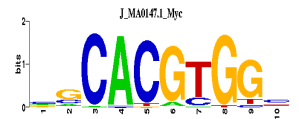
J_MA0376.1_RTG3 6.5893e-08

-----GRCGTGC-----
NWNNGCAGTGCNNNNN



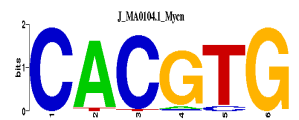
J_MA0147.1_Myc 2.8296e-07

-GRCGTGC-
NCCACGTGSN

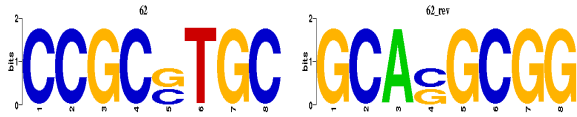


J_MA0104.1_Mycn 3.5136e-07

GRCGTGC
-CACGTG-

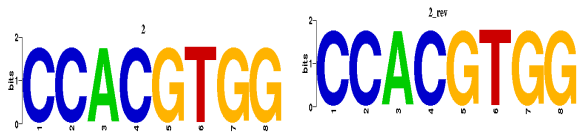


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	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0147.1_Myc	3.9527e-07	-CCGCSTGC- NCCACGTGSN	
J_MA0059.1_MYC_MAX	3.2827e-05	--GCASGCGG- NASCACGTGGT	
J_MA0290.1_DAL81	3.5266e-05	-----CCGCSTGC----- AAAAGCCGCGGGCGGGATT	
J_MA0357.1_PHO4	4.7435e-05	GCASGCGG SCACGTGS	
J_MA0449.1_h	1.1445e-04	-GCASGCGG- GNCACGTGNC	

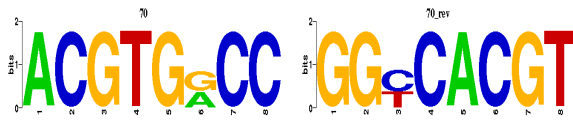
2



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0059.1_MYC_MAX	1.4449e-10	-CCACGTGG- ACCACGTGSTN	
J_MA0128.1_EmBP-1	9.4626e-10	CCACGTGG CCACGTST	





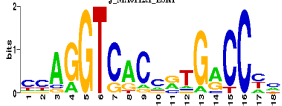
J_MA0357.1_PHO4	1.9558e-09	CCACGTGG SCACGTGS	
J_MA0104.1_Mycn	4.0240e-09	CCACGTGG -CACGTG-	
J_MA0004.1_Arnt	5.0237e-09	CCACGTGG -CACGTG-	

70

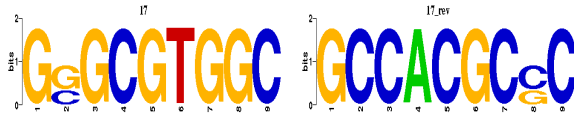


forward

reverse compliment

Name	E value	Alignment	Motif
J_MA0097.1_bZIP911	1.9372e-09	GGYCACGT---- GGCCACGTCAYC	
J_MA0104.2_Mycn	1.4355e-07	GGYCACGT--- -GCCACGTGSN	
J_MA0128.1_EmBP-1	9.9824e-06	GGYCACGT-- --CCACGTST	
J_MA0409.1_TYE7	1.3355e-05	GGYCACGT- --TCACGTG	
J_MA0112.1_ESR1	1.7077e-05	--GGYCACGT----- NNGGYCANNGTGACCTNN	

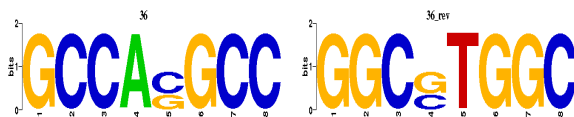
17



forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	1.3461e-10	GCCACGCSC- GCCMCRCCCN	
J_MA0450.1_hkb	1.7146e-07	GCCACGCSC- -TCACGCCCM	
J_MA0006.1_Arnt_Ahr	3.9596e-05	GCCACGCSC --CACGCN-	
J_MA0449.1_h	4.0097e-05	-GSGCGTGGC GNCACGTGNC	
J_MA0079.2_SP1	6.7103e-05	--GSGCGTGGC GGGGNGGGG-	

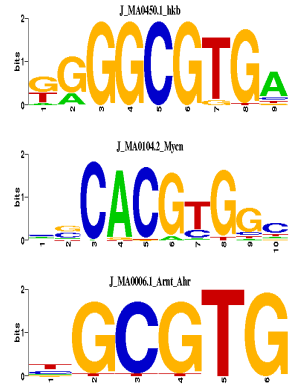
36



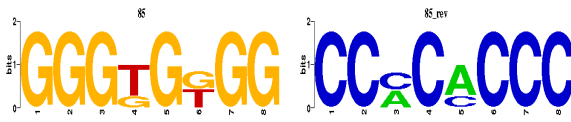
forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	6.4498e-08	GCCASGCC-- GCCMCRCCCN	
J_MA0097.1_bZIP911	1.7871e-05	-GCCASGCC--- GGCCACGTCAYC	

J_MA0450.1_hkb	2.8598e-05	GCCASGCC-- -TCACGCCCM
J_MA0104.2_Mycn	1.0186e-04	GCCASGCC-- GCCACGTGSN
J_MA0006.1_Arnt_Ahr	1.2197e-04	GCCASGCC --CACGCN



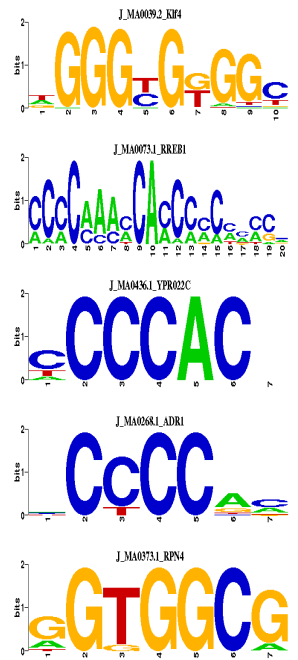
85



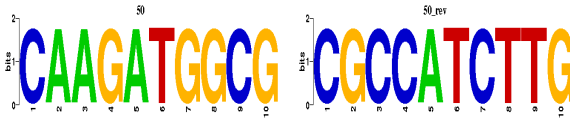
forward

reverse compliment

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0039.2_Klf4	2.0723e-10	-CCMCACCC- GCCMCRCCCN	
J_MA0073.1_RREB1	1.1147e-06	-GGGTGKGG----- NGKKKGKGGGTGKTTGGGG	
J_MA0436.1_YPR022C	8.0050e-06	GGGTGKGG -NGTGGGG	
J_MA0268.1_ADR1	4.0734e-05	-CCMCACCC NCCCCAM--	
J_MA0373.1_RPN4	6.1697e-05	CCMCACCC CGCCACC-	

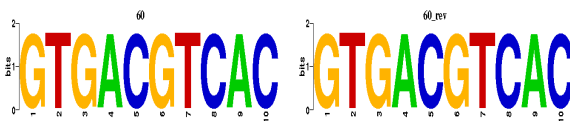


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forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0373.1_RPN4	1.9891e-05	CGCCATCTTG CGCCACC---	
J_MA0139.1_CTCF	3.2419e-04	-----CAAGATGGCG---- YNNCCASYAGGKGGCRSNN	
J_MA0091.1_TAL1_TCF3	2.3545e-03	-CGCCATCTTG- NNAMCATCTGKT	
J_MA0213.1_brk	7.1865e-03	CAAGATGGCG-- ----SYGGCGCY	
J_MA0024.1_E2F1	7.9571e-03	-CGCCATCTTG GCGCSAAA---	



60

forward *reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
J_MA0018.2_CREB1	3.0674e-12	GTGACGTCAC -TGACGTCA-	
J_MA0096.1_bZIP910	1.1714e-06	GTGACGTCAC ---ACGTCAK	

Stamp Results

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J_MA0129.1_TGA1A 1.3793e-06

GTGACGTCAC
-TGACGTN--



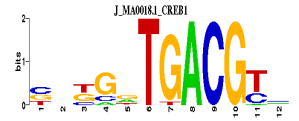
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