

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

Input file: 100 motifs loaded

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

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

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

[Download results as a PDF](#)

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## Multiple Alignment

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

```

0:      ----GGGNNGGG-----
1:      ---CCWTTGTT-----
2:      -----TTNTTTTT----
3:      --TCCTTTGT-----
4:      ---CTTTTGTT-----
5:      ----GGGTGKGG-----
6:      --CCTGCTGTG-----
7:      ----ATTWGCAT-----
8:      -TGACCTTGR-----
9:      CNTTTCCTNT-----
10:     --GCYTTTGT-----
11:     -TTNCTTTG-----
12:     ---GYTTTGTTNT----
13:     ---CCCYTCCC-----
14:     ----YTYTKTKT-----
15:     ----CTTTSTCT-----
16:     ----TYTNTKTK-----
17:     ----CTTTCTTT-----
18:     -----TTNTCTTT---
19:     ---TGGGTGTG-----
20:     --TNCATTGTNT-----
21:     --CYCATTGTNT-----
22:     -NGGAAATG-----

```

# Stamp Results

11/20/15

```

23:      ----TGCTGNGA-----
24:      -----TNTNTNT-----
25:      -----TATGYAAA-----
26:      TNCTTCCTNT-----
27:      ----CTYTKTNT-----
28:      -----TTSTTTTG---
29:      ---TGATKGCT-----
30:      --TTYTYTTT-----
31:      --TTCWTTGT-----
32:      -----ATKTAAAT---
33:      --GNCTTTGTNT-----
34:      --YTYTYTCT-----
35:      ---CTCCTGCTGC----
36:      -----TSTTTCCTNT
37:      --TYCCTTT-----
38:      ---TCTTTGTCN-----
39:      -----TNTCCTTTC-
40:      -----CTGRAAGG---
41:      --CTTCCTGYT-----
42:      ----CTTYCTCT-----
43:      -----TKTKTYTY----
44:      -AGCAGCTGCT-----
45:      -----GGGGKGGG----
46:      -CCTYCCTG-----
47:      -----TTNTTTCT---
48:      -----ATTGTYTT----
49:      -----CTGGGRAG---
50:      -----CTTCYCTG----
51:      --CCTWTTGT-----
52:      ---CAGCTNTG-----
53:      CTNCCTTT-----
54:      -TKCATTGMA-----
55:      ----CTTTGWAA-----
56:      -----TTGTNATG---
57:      --TYCCTTCCYT-----
58:      -TGGCYTTG-----
59:      -----CTGCWGAG---
60:      --TCMTTTC-----
61:      AAGCCWTT-----
62:      -----TTSTGATG---
63:      -----YTCTCCCWG-
64:      -----TTYCTCCT----
65:      -----KGKGGGNG--

```

## Stamp Results

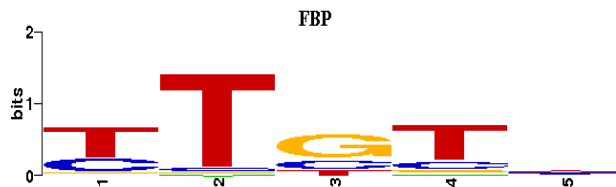
11/20/15

```

66:      -----TTTCYCTT-----
67:      --TCYTTTCT-----
68:      ---CYATTGTTNT-----
69:      ---NATTTGCAWA-----
70:      AGGAAGCTGA-----
71:      -CAGRGCTG-----
72:      ---YYYYYYYY-----
73:      ----CTYTCTCT-----
74:      -----TCTCTCTC-----
75:      --CYYYTTNT-----
76:      -----CTSTGKNG---
77:      ---TGATTGTTT-----
78:      ----TCTTCYTT-----
79:      -----CTKGCTTT-----
80:      -----TTGTYTCT---
81:      -----WTTGTCTTYT--
82:      -----TNYYCYCT---
83:      -----TTTNAAG----
84:      ---TCTYKTK-----
85:      -TTTCCTTYT-----
86:      CWGCCATTGT-----
87:      -----TGTCTNTG--
88:      --TTYYYYTT-----
89:      ---CWGCTGGGAR----
90:      -----CTGTSCCT---
91:      -----CYCCYCCC----
92:      TRATGGCTNT-----
93:      -YTCATTTGCA-----
94:      ----CCCTGKGG-----
95:      --TTYYYTTT-----
96:      -----CTGTGCTCAG-
97:      --YYCYTTTT-----
98:      ----GGWGGAG-----
99:      -----YTGTCCTTK--

```

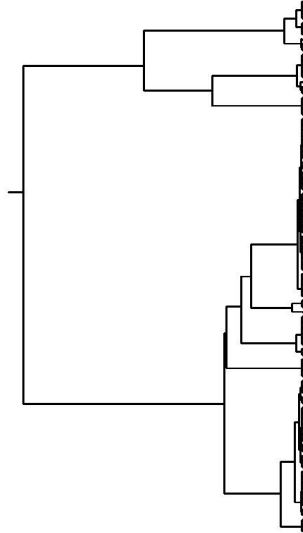
**Familial Profile:**  
(click for matrix)



# Motif Tree

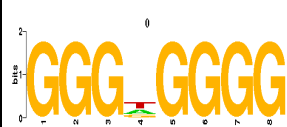
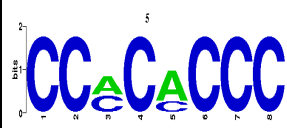
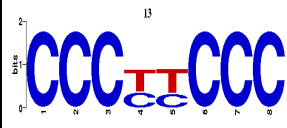
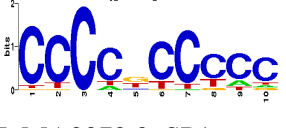
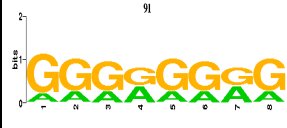
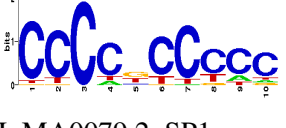
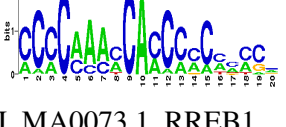
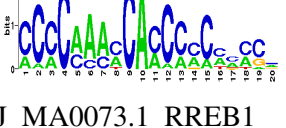
Tree (drawn by **Phylip**)

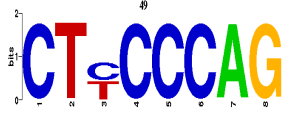
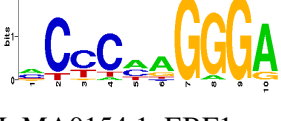
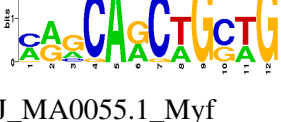
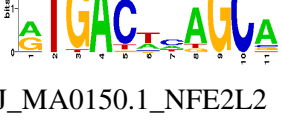
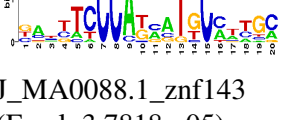
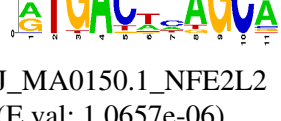
[Click here for Newick-format tree \(viewable with MEGA\)](#)

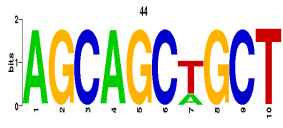
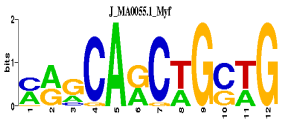
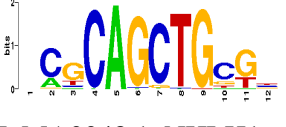
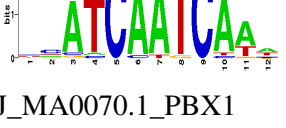
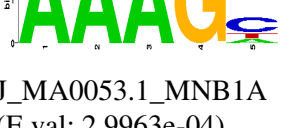
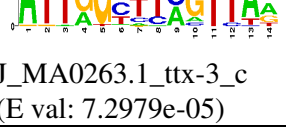
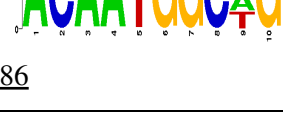
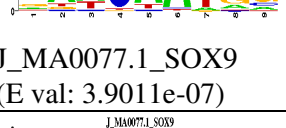
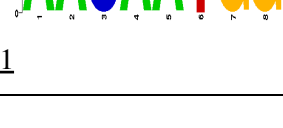
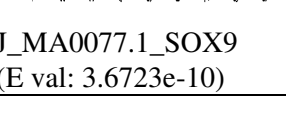


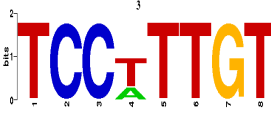
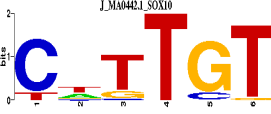
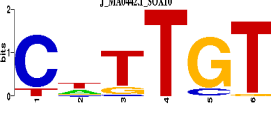
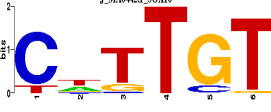
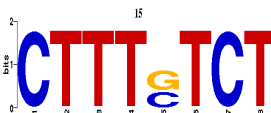
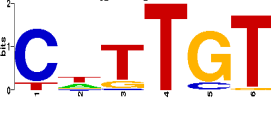
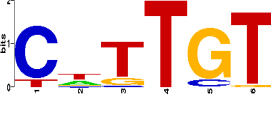
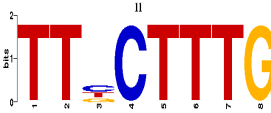
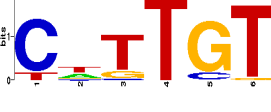
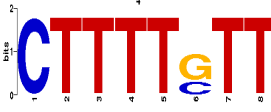
Input Motif

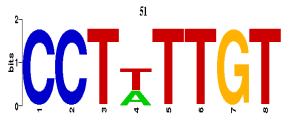
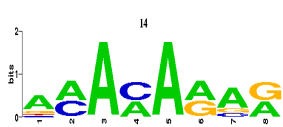
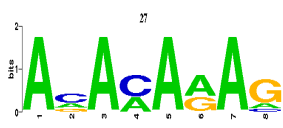
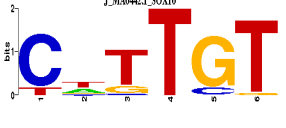
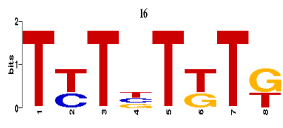
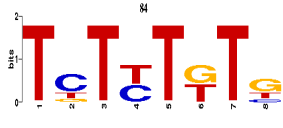
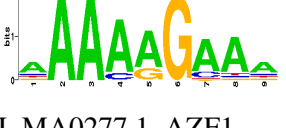
Best match in  
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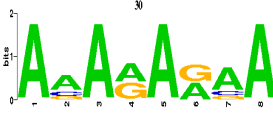
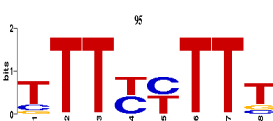
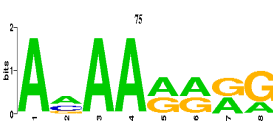
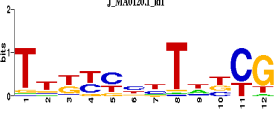
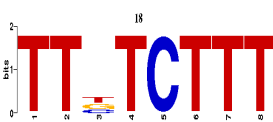
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|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>0</b>    | <br><b>J_MA0039.2_Klf4</b><br>(E val: 4.1726e-07)    |
| <br><b>5</b>    | <br><b>J_MA0039.2_Klf4</b><br>(E val: 1.9982e-10)    |
| <br><b>13</b>   | <br><b>J_MA0079.2_SP1</b><br>(E val: 2.4471e-07)     |
| <br><b>91</b>  | <br><b>J_MA0079.2_SP1</b><br>(E val: 3.8832e-07)    |
| <br><b>19</b> | <br><b>J_MA0009.1_T</b><br>(E val: 1.2839e-06)     |
| <br><b>45</b> | <br><b>J_MA0073.1_RREB1</b><br>(E val: 1.1675e-07) |
| <br><b>65</b> | <br><b>J_MA0073.1_RREB1</b><br>(E val: 3.8983e-06) |
|                                                                                                   |                                                                                                                                         |

|                                                                                                |                                                                                                                                        |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>49</p>   |  <p>J_MA0344.1_NHP10<br/>(E val: 1.6862e-04)</p>    |
|  <p>76</p>   |  <p>J_MA0332.1_MET28<br/>(E val: 2.7089e-06)</p>    |
|  <p>94</p>   |  <p>J_MA0154.1_EBF1<br/>(E val: 8.5630e-09)</p>     |
|  <p>6</p>    |  <p>J_MA0454.1_odd<br/>(E val: 6.2152e-05)</p>      |
|  <p>35</p> |  <p>J_MA0055.1_Myf<br/>(E val: 5.3539e-08)</p>    |
|  <p>23</p> |  <p>J_MA0150.1_NFE2L2<br/>(E val: 4.6498e-06)</p> |
|  <p>89</p> |  <p>J_MA0088.1_znf143<br/>(E val: 3.7818e-05)</p> |
|  <p>59</p> |  <p>J_MA0150.1_NFE2L2<br/>(E val: 1.0657e-06)</p> |
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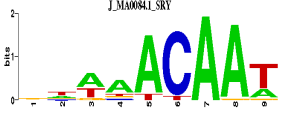
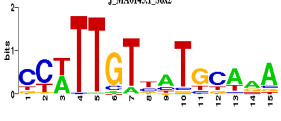
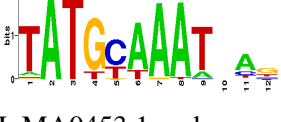
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|  <p>44</p>   |  <p>J_MA0055.1_Myf<br/>(E val: 1.8459e-12)</p>       |
|  <p>52</p>   |  <p>J_MA0048.1_NHLH1<br/>(E val: 2.3525e-05)</p>     |
|  <p>71</p>   |  <p>J_MA0403.1_TBF1<br/>(E val: 1.1126e-03)</p>      |
|  <p>29</p>   |  <p>J_MA0070.1_PBX1<br/>(E val: 2.0399e-05)</p>      |
|  <p>92</p> |  <p>J_MA0053.1_MNB1A<br/>(E val: 2.9963e-04)</p>   |
|  <p>61</p> |  <p>J_MA0263.1_ttx-3_c<br/>(E val: 7.2979e-05)</p> |
|  <p>86</p> |  <p>J_MA0077.1_SOX9<br/>(E val: 3.9011e-07)</p>    |
|  <p>1</p>  |  <p>J_MA0077.1_SOX9<br/>(E val: 3.6723e-10)</p>    |
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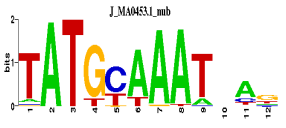
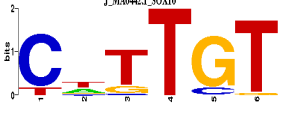
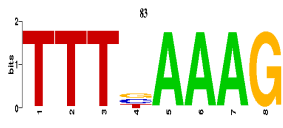
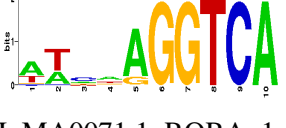
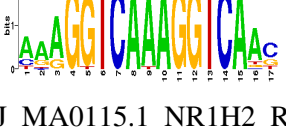
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|  <p><b>3</b></p>    |  <p>J_MA0442.1_SOX10<br/>(E val: 9.1370e-09)</p>   |
|  <p><b>10</b></p>   |  <p>J_MA0442.1_SOX10<br/>(E val: 3.4119e-07)</p>   |
|  <p><b>33</b></p>   |  <p>J_MA0442.1_SOX10<br/>(E val: 4.2013e-07)</p>   |
|  <p><b>15</b></p>   |  <p>J_MA0442.1_SOX10<br/>(E val: 3.5074e-07)</p>   |
|  <p><b>38</b></p>  |  <p>J_MA0442.1_SOX10<br/>(E val: 2.1068e-07)</p>  |
|  <p><b>11</b></p> |  <p>J_MA0370.1_RME1<br/>(E val: 9.5888e-11)</p>  |
|  <p><b>31</b></p> |  <p>J_MA0442.1_SOX10<br/>(E val: 5.9327e-09)</p> |
|  <p><b>4</b></p>  |  <p>J_MA00445.1_D<br/>(E val: 3.7307e-06)</p>    |
|                                                                                                       |                                                                                                                                       |

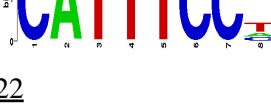
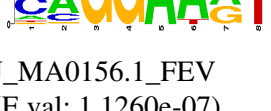
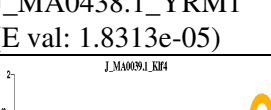
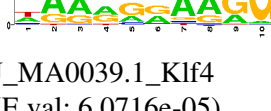
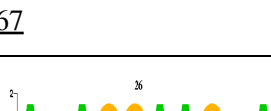
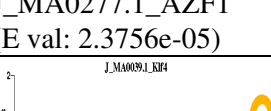
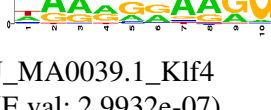
|                                                                                                   |                                                                                                                                        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>51</b>   | <br><b>J_MA00445.1_D</b><br>(E val: 1.5423e-05)     |
| <br><b>14</b>   | <br><b>J_MA0277.1_AZF1</b><br>(E val: 2.5347e-06)   |
| <br><b>27</b>   | <br><b>J_MA0442.1_SOX10</b><br>(E val: 7.1224e-06)  |
| <br><b>16</b>   | <br><b>J_MA0277.1_AZF1</b><br>(E val: 2.1786e-06)   |
| <br><b>84</b>  | <br><b>J_MA0277.1_AZF1</b><br>(E val: 5.8497e-06)  |
| <br><b>2</b>  | <br><b>J_MA0277.1_AZF1</b><br>(E val: 1.0560e-08) |
| <br><b>12</b> | <br><b>J_MA00445.1_D</b><br>(E val: 4.9124e-09)   |
| <br><b>28</b> | <br><b>J_MA0277.1_AZF1</b><br>(E val: 2.0807e-07) |
|                                                                                                   |                                                                                                                                        |

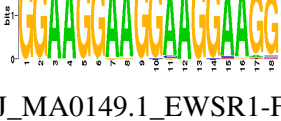
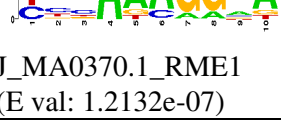
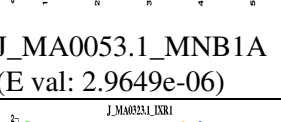
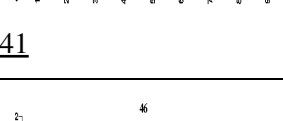
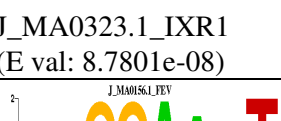
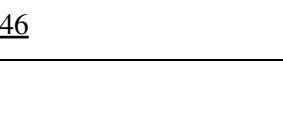
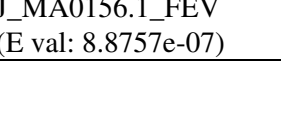
|                                                                                                       |                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>30</b></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 1.8723e-09)</p>   |
|  <p><b>88</b></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 9.5988e-09)</p>   |
|  <p><b>95</b></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 1.2195e-10)</p>   |
|  <p><b>75</b></p>   |  <p>J_MA0120.1_id1<br/>(E val: 2.2400e-05)</p>    |
|  <p><b>97</b></p>  |  <p>J_MA0277.1_AZF1<br/>(E val: 1.4299e-07)</p>  |
|  <p><b>18</b></p> |  <p>J_MA0277.1_AZF1<br/>(E val: 1.9588e-07)</p> |
|  <p><b>81</b></p> |  <p>J_MA0459.1_tll<br/>(E val: 1.3457e-08)</p>  |
|  <p><b>87</b></p> |  <p>J_MA0277.1_AZF1<br/>(E val: 4.5668e-04)</p> |
|                                                                                                       |                                                                                                                                      |

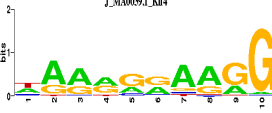
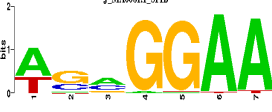
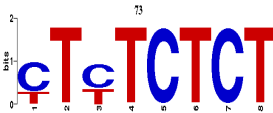
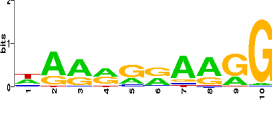
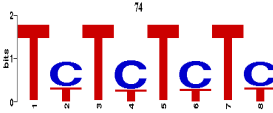
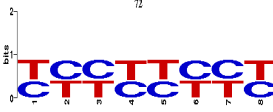
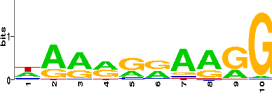
|                  |                                                 |
|------------------|-------------------------------------------------|
|                  |                                                 |
| <p><u>24</u></p> | <p>J_MA0010.1_br_Z1<br/>(E val: 4.2479e-05)</p> |
|                  |                                                 |
| <p><u>43</u></p> | <p>J_MA0022.1_dl_1<br/>(E val: 1.3194e-04)</p>  |
|                  |                                                 |
| <p><u>47</u></p> | <p>J_MA0277.1_AZF1<br/>(E val: 8.2600e-07)</p>  |
|                  |                                                 |
| <p><u>80</u></p> | <p>J_MA0040.1_Foxq1<br/>(E val: 8.6548e-06)</p> |
|                  |                                                 |
| <p><u>20</u></p> | <p>J_MA0371.1_ROX1<br/>(E val: 2.4288e-08)</p>  |
|                  |                                                 |
| <p><u>21</u></p> | <p>J_MA0371.1_ROX1<br/>(E val: 6.2441e-08)</p>  |
|                  |                                                 |
| <p><u>48</u></p> | <p>J_MA00445.1_D<br/>(E val: 4.4574e-08)</p>    |
|                  |                                                 |
| <p><u>68</u></p> | <p>J_MA00445.1_D<br/>(E val: 2.4980e-14)</p>    |
|                  |                                                 |

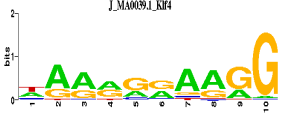
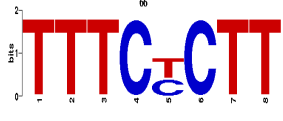
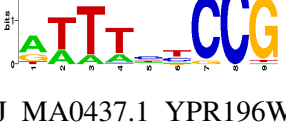
|                                                                                                       |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><u>77</u></p>   |  <p>J_MA0084.1_SRY<br/>(E val: 1.9978e-07)</p>         |
|  <p><u>56</u></p>   |  <p>J_MA0143.1_Sox2<br/>(E val: 1.0845e-08)</p>        |
|  <p><u>62</u></p>   |  <p>J_MA0142.1_Pou5f1<br/>(E val: 2.8702e-05)</p>      |
|  <p><u>96</u></p>   |  <p>J_MA0326.1_MAC1<br/>(E val: 2.6503e-07)</p>        |
|  <p><u>7</u></p>  |  <p>J_MA0453.1_nub<br/>(E val: 6.8723e-11)</p>       |
|  <p><u>69</u></p> |  <p>J_MA0453.1_nub<br/>(E val: 1.4599e-13)</p>       |
|  <p><u>25</u></p> |  <p>J_MA0453.1_nub<br/>(E val: 1.2126e-11)</p>       |
|  <p><u>32</u></p> |  <p>J_MA0328.1_MATALPHA2<br/>(E val: 1.7782e-08)</p> |
|                                                                                                       |                                                                                                                                           |

|                                                                                                |                                                                                                                                           |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>54</p>   |  <p>J_MA0453.1_nub<br/>(E val: 1.1441e-07)</p>         |
|  <p>93</p>   |  <p>J_MA0453.1_nub<br/>(E val: 3.5981e-09)</p>         |
|  <p>55</p>   |  <p>J_MA0442.1_SOX10<br/>(E val: 9.0296e-06)</p>       |
|  <p>83</p>   |  <p>J_MA0370.1_RME1<br/>(E val: 1.9886e-05)</p>        |
|  <p>8</p>   |  <p>J_MA0071.1_RORA_1<br/>(E val: 1.0049e-11)</p>     |
|  <p>58</p> |  <p>J_MA0071.1_RORA_1<br/>(E val: 2.5964e-05)</p>    |
|  <p>90</p> |  <p>J_MA0002.2_RUNX1<br/>(E val: 1.8464e-05)</p>     |
|  <p>99</p> |  <p>J_MA0115.1_NR1H2_RXR<br/>(E val: 5.2065e-06)</p> |
|                                                                                                |                                                                                                                                           |

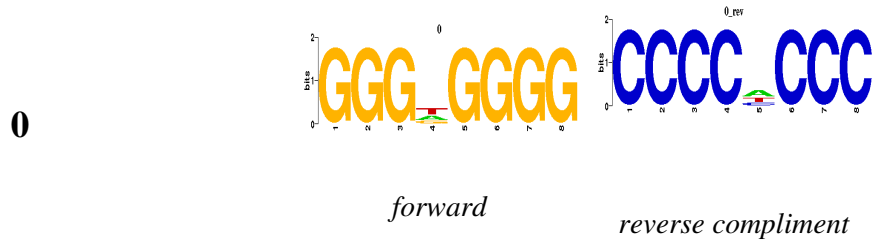
|                                                                                                |                                                                                                                                          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>9</p>    |  <p>J_MA0156.1_FEV</p>                                |
| <p>J_MA0156.1_FEV</p> <p>(E val: 9.5775e-08)</p>                                               | <p>J_MA0156.1_FEV</p> <p>(E val: 9.5775e-08)</p>                                                                                         |
|  <p>22</p>   |  <p>J_MA0156.1_FEV</p> <p>(E val: 1.1260e-07)</p>     |
|  <p>60</p>   |  <p>J_MA0438.1_YRM1</p> <p>(E val: 1.8313e-05)</p>    |
|  <p>40</p>   |  <p>J_MA0039.1_Klf4</p> <p>(E val: 6.0716e-05)</p>    |
|  <p>67</p>   |  <p>J_MA0277.1_AZF1</p> <p>(E val: 2.3756e-05)</p>    |
|  <p>26</p>  |  <p>J_MA0039.1_Klf4</p> <p>(E val: 2.9932e-07)</p>   |
|  <p>36</p> |  <p>J_MA0148.1_FOXA1</p> <p>(E val: 3.0701e-07)</p> |
|  <p>37</p> |  <p>J_MA0277.1_AZF1</p> <p>(E val: 3.3457e-08)</p>  |
|                                                                                                |                                                                                                                                          |

|                                                                                                       |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>39</b></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 3.4137e-07)</p>      |
|  <p><b>85</b></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 4.6458e-11)</p>      |
|  <p><b>57</b></p>   |  <p>J_MA0149.1_EWSR1-FLI<br/>(E val: 7.5395e-12)</p> |
|  <p><b>78</b></p>   |  <p>J_MA0080.2_SPI1<br/>(E val: 2.7444e-06)</p>      |
|  <p><b>53</b></p> |  <p>J_MA0370.1_RME1<br/>(E val: 1.2132e-07)</p>    |
|  <p><b>79</b></p> |  <p>J_MA0053.1_MNB1A<br/>(E val: 2.9649e-06)</p>   |
|  <p><b>41</b></p> |  <p>J_MA0323.1_IXR1<br/>(E val: 8.7801e-08)</p>    |
|  <p><b>46</b></p> |  <p>J_MA0156.1_FEV<br/>(E val: 8.8757e-07)</p>     |
|                                                                                                       |                                                                                                                                         |

|                                                                                                       |                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|  <p><u>70</u></p>   |  <p>J_MA0305.1_GCR2<br/>(E val: 1.2734e-06)</p>   |
|  <p><u>17</u></p>   |  <p>J_MA0039.1_Klf4<br/>(E val: 3.2134e-10)</p>   |
|  <p><u>42</u></p>   |  <p>J_MA0081.1_SPIB<br/>(E val: 7.1218e-08)</p>   |
|  <p><u>34</u></p>   |  <p>J_MA0277.1_AZF1<br/>(E val: 6.9987e-06)</p>   |
|  <p><u>73</u></p>  |  <p>J_MA0039.1_Klf4<br/>(E val: 3.5064e-04)</p>  |
|  <p><u>74</u></p> |  <p>J_MA0277.1_AZF1<br/>(E val: 1.5025e-04)</p> |
|  <p><u>72</u></p> |  <p>J_MA0039.1_Klf4<br/>(E val: 1.5232e-07)</p> |
|  <p><u>82</u></p> |  <p>J_MA0120.1_id1<br/>(E val: 7.2070e-06)</p>  |
|                                                                                                       |                                                                                                                                      |

|                                                                                                   |                                                                                                                                    |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>50</b>   | <br>J_MA0039.1_Klf4<br>(E val: 7.3257e-05)      |
| <br><b>66</b>   | <br>J_MA0277.1_AZF1<br>(E val: 1.8142e-07)      |
| <br><b>63</b>   | <br>J_MA0149.1_EWSR1-FLI<br>(E val: 1.6128e-04) |
| <br><b>98</b>   | <br>J_MA0130.1_ZNF354C<br>(E val: 3.0436e-05)   |
| <br><b>64</b> | <br>J_MA0437.1_YPR196W<br>(E val: 7.8702e-06) |

## Motif Similarity Matches



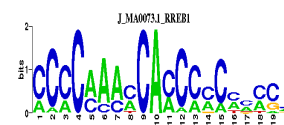
| Name            | E value    | Alignment              | Motif                                                                                 |
|-----------------|------------|------------------------|---------------------------------------------------------------------------------------|
| J_MA0039.2_Klf4 | 4.1726e-07 | -CCCNCCC-<br>GCCMCRCCN |  |

## Stamp Results

11/20/15

J\_MA0073.1\_RREB1 2.6135e-06

—GGGNGGGG—  
 NGKKKGKGGGTGKTTTGGGG



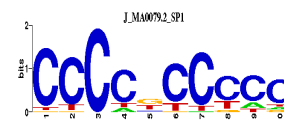
J\_MA0436.1\_YPR022C 2.7934e-06

GGGNGGGG  
 —NGTGGGG



J\_MA0079.2\_SP1 3.8995e-06

—GGGNGGGG  
 GGGGNGGGG

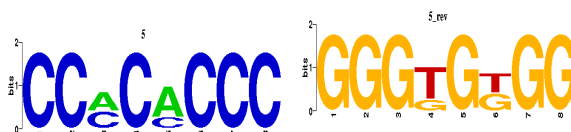


J\_MA0268.1\_ADR1 2.6135e-05

GGGNGGGG—  
 —KTGGGGN



5

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

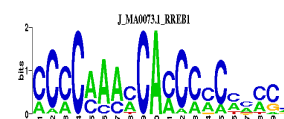
J\_MA0039.2\_Klf4 1.9982e-10

—CCMCACCC—  
 GCCMCRCCCN



J\_MA0073.1\_RREB1 1.2928e-06

—GGGTGKGG—  
 NGKKKGKGGGTGKTTTGGGG



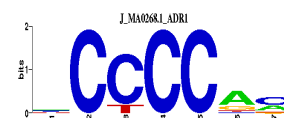
J\_MA0436.1\_YPR022C 1.0268e-05

GGGTGKGG  
 —NGTGGGG



J\_MA0268.1\_ADR1 5.0789e-05

GGGTGKGG—  
 —KTGGGGN

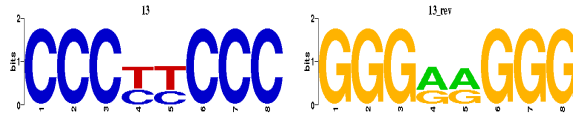


J\_MA0373.1\_RPN4 7.7773e-05

CCMCACCC  
 CGCCACC—

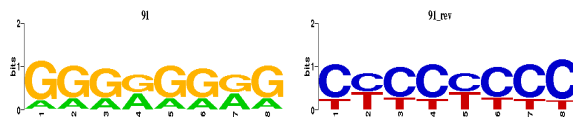


13

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i> |
|-----------------|----------------|----------------------------|--------------|
| J_MA0079.2_SP1  | 2.4471e-07     | --GGGARGGG<br>GGGGGNNGGG   |              |
| J_MA0039.1_Klf4 | 7.3008e-05     | CCCYTCCC---<br>-CCTTYYYTTN |              |
| J_MA0341.1_MSN2 | 2.0306e-04     | CCCYTCCC<br>CCCCT---       |              |
| J_MA0342.1_MSN4 | 3.4615e-04     | CCCYTCCC<br>CCCCT---       |              |
| J_MA0366.1_RGM1 | 6.8117e-04     | CCCYTCCC<br>CCCCT---       |              |

91

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>                                 | <i>Motif</i> |
|-----------------|----------------|--------------------------------------------------|--------------|
| J_MA0079.2_SP1  | 3.8832e-07     | CYCCYCCC--<br>CCCNCCCCC                          |              |
| J_MA0068.1_Pax4 | 2.9707e-05     | -----CYCCYCCC<br>RAAWAWWWNNMNNNNNNNNNNNNMNNNNYMC |              |

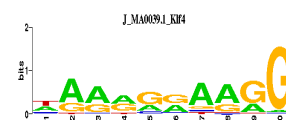
J\_MA0341.1\_MSN2 2.6398e-04

GGGRGGRG  
---AGGGG

J\_MA0283.1\_CHA4 5.8992e-04

-CYCCYCCC  
NCTCCGCC-

J\_MA0039.1\_Klf4 6.0670e-04

--GGGRGGRG  
NAARRRAAGG

19

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

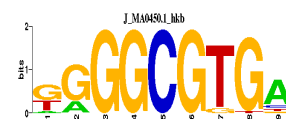
J\_MA0009.1\_T

1.2839e-06

--CACACCCA-  
TTCACACCTAG

J\_MA0450.1\_hkb

4.9648e-06

-CACACCCA  
TCACGCCCM

J\_MA0270.1\_AFT2

5.2120e-06

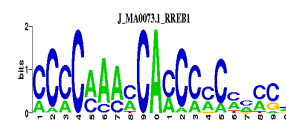
CACACCCA  
NACACCCN

J\_MA0039.2\_Klf4

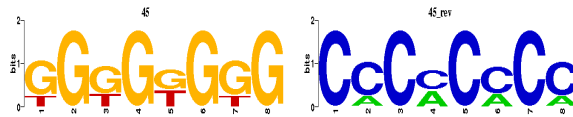
2.5925e-05

--CACACCCA  
GCCMCRCN

J\_MA0073.1\_RREB1 3.5219e-05

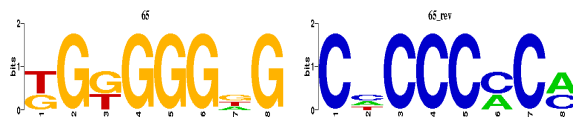
----TGGGTGTG-----  
NGKKKGKGGGTGKTTTGGGG

45

*forward**reverse compliment*

| <i>Name</i>          | <i>E value</i> | <i>Alignment</i>                               | <i>Motif</i> |
|----------------------|----------------|------------------------------------------------|--------------|
| J_MA0073.1_RREB1     | 1.1675e-07     | --GGGGKGGG-----<br>NGKKKGKGGGTGKTTTGGGG        |              |
| J_MA0068.1_Pax4      | 8.8618e-07     | GGGGKGGG-----<br>GKRNNNNKNNNNNNNNNNNNKNNWWWTTT |              |
| J_MA0079.2_SP1       | 2.3600e-05     | --GGGGKGGG<br>GGGGGNGGGG                       |              |
| J_MA0456.1_opa       | 2.8494e-05     | ----GGGGKGGG<br>CNGCGGGGGGKC                   |              |
| J_MA0140.1_Tal1_Gata | 6.9760e-05     | -----CCCMCCCC--<br>NTTATCTNNNNNNNNNCNN         |              |

65

*forward**reverse compliment*

| <i>Name</i>          | <i>E value</i> | <i>Alignment</i>                          | <i>Motif</i> |
|----------------------|----------------|-------------------------------------------|--------------|
| J_MA0073.1_RREB1     | 3.8983e-06     | ----KGKGGGNG-----<br>NGKKKGKGGGTGKTTTGGGG |              |
| J_MA0140.1_Tal1_Gata | 2.3364e-05     | --KGKGGGNG-----<br>NNGNNNNNNNNNAGATAAN    |              |

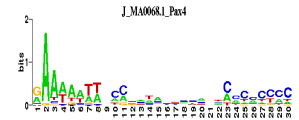
J\_MA0436.1\_YPR022C 5.7950e-05

KGKGGGNG  
NGTGGGG-

J\_MA0068.1\_Pax4

1.3135e-04

-----KGKGGGNG-----  
GKRNNNNKNNNNNNNNNNNNKNNWWWTWTTY



J\_MA0450.1\_hkb

1.3977e-04

KGKGGGNG-  
KGGGCGTGA

49

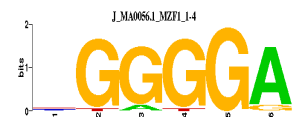
*forward**reverse compliment**Name**E value**Alignment**Motif*

J\_MA0344.1\_NHP10

1.6862e-04

CTYCCCAG-  
-TCCCCGGN

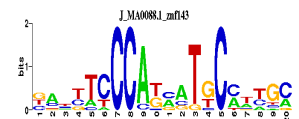
J\_MA0056.1\_MZF1\_1-4 3.0367e-04

CTYCCCAG  
-TCCCCN-

J\_MA0088.1\_znf143

3.9762e-04

-----CTGGGRAG--  
KCNNKGMANNMTGGGANNNN



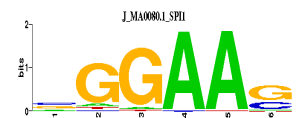
J\_MA0282.1\_CEP3

5.5544e-04

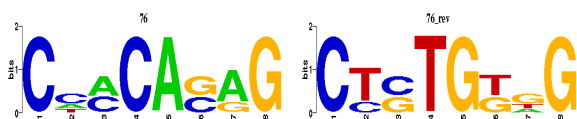
CTYCCCAG  
NTTCCGAR

J\_MA0080.1\_SPI1

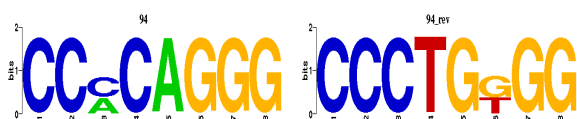
6.6069e-04

CTYCCCAG  
STTCN--

76

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>         | <i>Motif</i> |
|--------------------|----------------|--------------------------|--------------|
| J_MA0332.1_MET28   | 2.7089e-06     | CNMCASAG<br>CCACAG--     |              |
| J_MA0154.1_EBF1    | 2.5484e-04     | -CTSTGKNG-<br>TCCCTNGGGN |              |
| J_MA0335.1_MET4    | 3.0023e-04     | CNMCASAG<br>CCACAGNT     |              |
| J_MA0436.1_YPR022C | 6.5400e-04     | CTSTGKNG<br>-NGTGGGG     |              |
| J_MA0337.1_MIG1    | 9.3968e-04     | CTSTGKNG-<br>--SYGGGGN   |              |



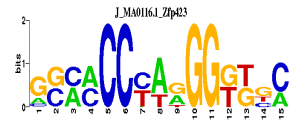
94

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>         | <i>Motif</i> |
|------------------|----------------|--------------------------|--------------|
| J_MA0154.1_EBF1  | 8.5630e-09     | -CCCTGKGG-<br>TCCCTNGGGN |              |
| J_MA0332.1_MET28 | 7.5664e-07     | CCMCAGGG<br>CCACAG--     |              |

J\_MA0116.1\_Zfp423 5.2536e-06

---CCMCAGGG---  
GSMCCYARGGKNC



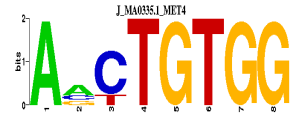
J\_MA0163.1\_PLAG1 3.2532e-05

--CCCTGKGG----  
CCCCCTTNGGCCCC



J\_MA0335.1\_MET4 7.4823e-05

CCMCAGGG  
CCACAGNT



6

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

J\_MA0454.1\_odd 6.2152e-05

--CCTGCTGTG  
NTGCTACTGTN



J\_MA0332.1\_MET28 8.6780e-05

-CACAGCAGG  
CCACAG----



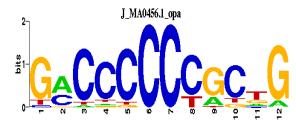
J\_MA0150.1\_NFE2L2 3.0631e-04

CCTGCTGTG----  
--TGCTNWTGTCAY



J\_MA0456.1\_opa 5.9399e-04

-----CCTGCTGTG  
GMCCCCCGCNG--



J\_MA0402.1\_SWI5 7.4781e-04

-CACAGCAGG  
NACCAGCA--



35

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
|-----------------|----------------|-------------------------------|--------------|
| J_MA0055.1_Myf  | 5.3539e-08     | CTCCTGCTGC--<br>CAGCAGYTGCYK  |              |
| J_MA0456.1_opa  | 8.1986e-05     | GCAGCAGGAG---<br>-CNGCGGGGGGK |              |
| J_MA0454.1_odd  | 3.2316e-04     | CTCCTGCTGC-<br>NTGCTACTGTN    |              |
| J_MA0086.1_sna  | 6.8706e-04     | CTCCTGCTGC<br>CACCTG----      |              |
| J_MA0287.1_CUP2 | 7.4140e-04     | --CTCCTGCTGC<br>CWTTTYTGCTG-  |              |



23

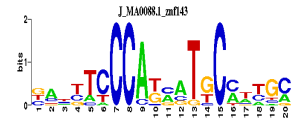
*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
|-------------------|----------------|-----------------------------|--------------|
| J_MA0150.1_NFE2L2 | 4.6498e-06     | TGCTGNGA---<br>TGCTNWTGTCAY |              |
| J_MA0402.1_SWI5   | 1.3624e-04     | TCNCAGCA<br>NACCAGCA        |              |

J\_MA0332.1\_MET28 1.8553e-04

TCNCAGCA  
CCACAG--

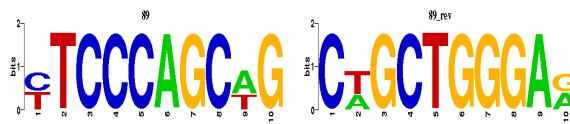
J\_MA0088.1\_znf143 2.7522e-04

----TCNCAGCA-----  
NNNNTCCCAKNNTKCMNNGM

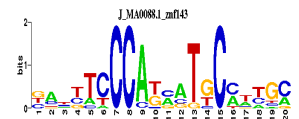
J\_MA0009.1\_T 1.4005e-03

-TCNCAGCA--  
TTCACACCTAG

89

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

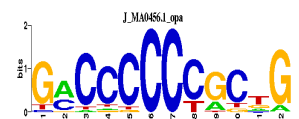
J\_MA0088.1\_znf143 3.7818e-05

---YTCCCAGCWG-----  
NNNNTCCCAKNNTKCMNNGM

J\_MA0402.1\_SWI5 6.7115e-05

YTCCCAGCWG  
-NACCAGCA-

J\_MA0456.1\_opa 4.5030e-04

CWGCTGGGAR--  
CNGCGGGGGGK

J\_MA0267.1\_ACE2 6.9099e-04

CWGCTGGGAR  
-NGCTGGN--

J\_MA0048.1\_NHLH1 9.2635e-04

YTCCCAGCWG---  
-NCGCAGCTGCGN

59

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                       | <i>Motif</i> |
|-------------------|----------------|----------------------------------------|--------------|
| J_MA0150.1_NFE2L2 | 1.0657e-06     | CTGCWGAG----<br>-TGCTNWGTCAY           |              |
| J_MA0055.1_Myf    | 3.9287e-04     | CTCWGCAG-----<br>--CAGCAGYTGCYK        |              |
| J_MA0138.1_REST   | 2.1343e-03     | CTCWGCAG-----<br>-TCAGCACCWNGGACAGCNC  |              |
| J_MA0320.1_IME1   | 2.3115e-03     | CTCWGCAG<br>CTCGGCGG                   |              |
| J_MA0138.2_REST   | 2.5811e-03     | -----CTGCWGAG<br>GNNGCTGTCCNNGGTGCTGAN |              |



44

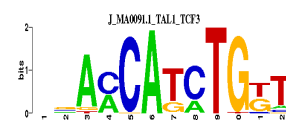
*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|------------------|----------------|------------------------------|--------------|
| J_MA0055.1_Myf   | 1.8459e-12     | -AGCAGCTGCT-<br>CAGCAGYTGCYK |              |
| J_MA0048.1_NHLH1 | 5.7792e-09     | -AGCAGCTGCT-<br>NCGCAGCTGCGN |              |

J\_MA0086.1\_sna 8.1304e-04

AGCAGCTGCT  
--CACCTG--

J\_MA0091.1\_TAL1\_TCF3 2.0366e-03

AGCAGCTGCT--  
AMCAGATGKTNN

J\_MA0059.1\_MYC\_MAX 6.6534e-03

AGCAGCTGCT-  
ACCACGTGSTN

52

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

J\_MA0048.1\_NHLH1 2.3525e-05

-CANAGCTG---  
NCGCAGCTGCGN

J\_MA0335.1\_MET4 5.2784e-05

-CANAGCTG  
CCACAGNT-

J\_MA0332.1\_MET28 4.5760e-04

CAGCTNTG-  
---CTGTGG

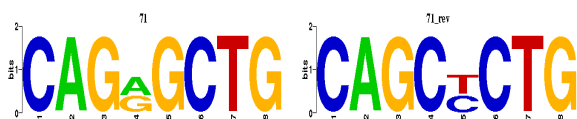
J\_MA0053.1\_MNB1A 1.4725e-03

CAGCTNTG  
--NCTTT-

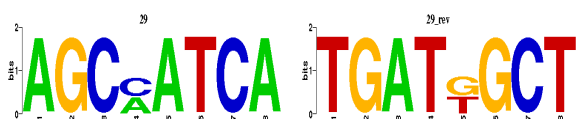
J\_MA0064.1\_PBF 2.0222e-03

CAGCTNTG  
--RCTTT-

71

*forward**reverse compliment*

| <i>Name</i>         | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|---------------------|----------------|----------------------------------|--------------|
| J_MA0403.1_TBF1     | 1.1126e-03     | -CAGRGCTG<br>NTAGGGYT-           |              |
| J_MA0364.1_REI1     | 2.0105e-03     | -CAGRGCTG<br>NCAGGGG--           |              |
| J_MA0048.1_NHLH1    | 1.0123e-02     | ---CAGCYCTG-<br>NCGCAGCTGCGN     |              |
| J_MA0451.1_kni      | 1.0927e-02     | CAGCYCTG----<br>NTGCTCTANTTT     |              |
| J_MA0145.1_Tcfcp2l1 | 1.2089e-02     | -----CAGRGCTG-<br>CYGGNTNNRNCYGG |              |



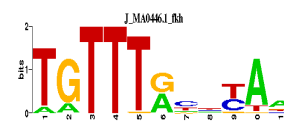
29

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|-----------------|----------------|----------------------------------|--------------|
| J_MA0070.1_PBX1 | 2.0399e-05     | --TGATKGCT--<br>NTTGATTGATNN     |              |
| J_MA0316.1_HAP5 | 2.4418e-04     | -----TGATKGCT<br>NSSNNKCTNATTGGT |              |

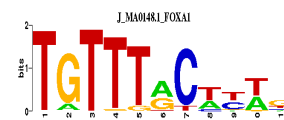
J\_MA0446.1\_fkh 4.7001e-04

---AGCMATCA  
NTRNNYAAACA



J\_MA0148.1\_FOXA1 5.4015e-04

---AGCMATCA  
NWRWGYAAACA

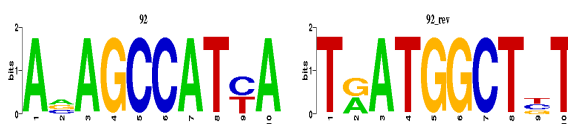


J\_MA0298.1\_FZF1 7.0059e-04

TGATKGCT  
TGATAG--



92

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

J\_MA0053.1\_MNB1A 2.9963e-04

TRATGGCTNT  
-----NCTTT



J\_MA0064.1\_PBF 4.2911e-04

TRATGGCTNT  
-----RCTTT



J\_MA0148.1\_FOXA1 6.7200e-04

-ANAGCCATYA  
NWRWGYAAACA



J\_MA0248.1\_tup 9.3111e-04

ANAGCCATYA-  
----CMATTAW

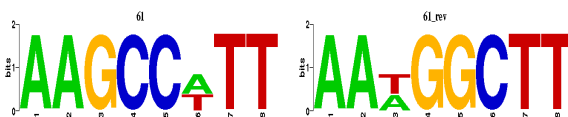


J\_MA0020.1\_Dof2 1.1976e-03

TRATGGCTNT  
----NGCTTT

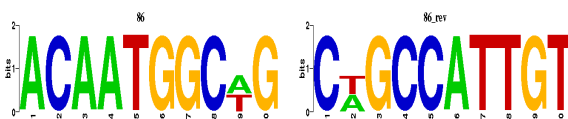


61

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>                | <i>Motif</i>       |
|--------------------|----------------|---------------------------------|--------------------|
| J_MA0263.1_ttx-3_c | 7.2979e-05     | -----AAGCCWTT<br>YTAACKAARCCAAT | J_MA0263.1_ttx-3_c |
| J_MA0452.1_Kr      | 2.8634e-04     | -AAGCCWTT--<br>TAACCCYTNN       | J_MA0452.1_Kr      |
| J_MA0260.1_che-1   | 6.0279e-04     | AAWGGCTT--<br>---GGYTTC         | J_MA0260.1_che-1   |
| J_MA0304.1_GCR1    | 1.0923e-03     | AAWGGCTT---<br>---GGCTTCCA      | J_MA0304.1_GCR1    |
| J_MA0053.1_MNB1A   | 2.6348e-03     | AAWGGCTT--<br>----NCTTT         | J_MA0053.1_MNB1A   |

86

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i>     |
|------------------|----------------|------------------------------|------------------|
| J_MA0077.1_SOX9  | 3.9011e-07     | CWGCCATTGT--<br>---CYATTGTTN | J_MA0077.1_SOX9  |
| J_MA0442.1_SOX10 | 5.4660e-06     | ACAATGGCWG<br>ACAAGW----     | J_MA0442.1_SOX10 |

# Stamp Results

11/20/15

J\_MA00445.1\_D 1.8539e-05

---ACAATGGCWG  
ANAACAATRGN--



J\_MA0371.1\_ROX1 2.2290e-05

----ACAATGGCWG  
GAGAACAATNGR--



J\_MA0078.1\_Sox17 1.2147e-04

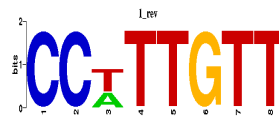
-ACAATGGCWG  
SACAATRNN--



1



*forward*



*reverse compliment*

*Name*

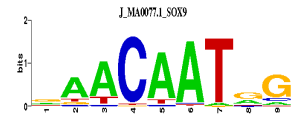
*E value*

*Alignment*

*Motif*

J\_MA0077.1\_SOX9 3.6723e-10

CCWTTGTT-  
CYATTGTTN



J\_MA0143.1\_Sox2 3.7937e-10

-----AACAAWGG  
TNTGCATNACAAWGG



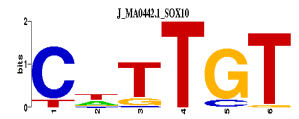
J\_MA00445.1\_D 4.4882e-10

--AACAAWGG-  
ANAACAATRGN



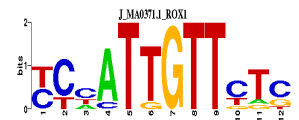
J\_MA0442.1\_SOX10 6.0337e-09

AACAAWGG  
-ACAAWG-



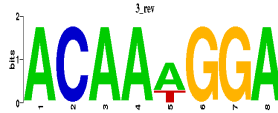
J\_MA0371.1\_ROX1 4.0505e-08

---AACAAWGG-  
GAGAACAATNGR



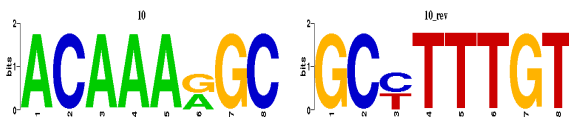
3



*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|------------------|----------------|-----------------------------------|--------------|
| J_MA0442.1_SOX10 | 9.1370e-09     | ACAAAGGA<br>ACAAWG--              |              |
| J_MA0370.1_RME1  | 1.5502e-07     | -TCCTTTGT-<br>TNCCTTTNNA          |              |
| J_MA0143.1_Sox2  | 9.3855e-07     | -----ACAAAGGA<br>TNTGCATNACAAWGG- |              |
| J_MA00445.1_D    | 4.2841e-06     | TCCTTTGT---<br>NCYATTGTTNT        |              |
| J_MA0371.1_ROX1  | 4.4807e-06     | ----ACAAAGGA<br>GAGAACAATNGR      |              |

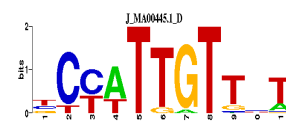
10

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|------------------|----------------|-----------------------------------|--------------|
| J_MA0442.1_SOX10 | 3.4119e-07     | ACAAARGC<br>ACAAWG--              |              |
| J_MA0143.1_Sox2  | 8.0197e-06     | -----ACAAARGC<br>TNTGCATNACAAWGG- |              |

J\_MA00445.1\_D 1.3539e-05

---ACAAAGC  
ANAACAATRGN



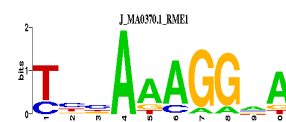
J\_MA0077.1\_SOX9 4.3847e-05

GCYTTTGT--  
-CYATTGTTN

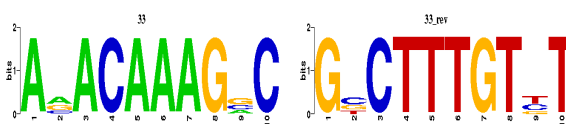


J\_MA0370.1\_RME1 1.5197e-04

-GCYTTTGT-  
TNCCTTTNNA



33

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

J\_MA0442.1\_SOX10 4.2013e-07

ANACAAAGNC  
--ACAAWG--



J\_MA0143.1\_Sox2 7.4290e-06

-----ANACAAAGNC  
TNTGCATNACAAWGG-



J\_MA00445.1\_D 8.5894e-06

-ANACAAAGNC  
ANAACAATRGN



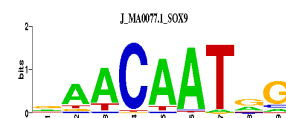
J\_MA0039.1\_Klf4 5.5858e-05

-ANACAAAGNC  
NAARRRAAGG-

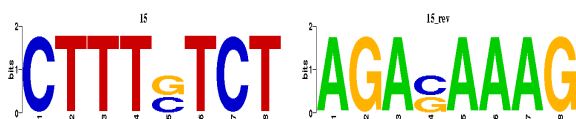


J\_MA0077.1\_SOX9 7.8318e-05

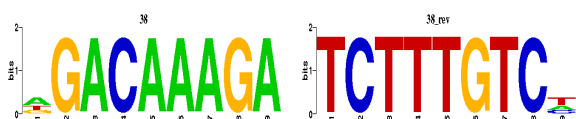
GNCTTTGTNT  
-CYATTGTTN



15

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0442.1_SOX10 | 3.5074e-07     | AGASAAAG<br>--ACAAWG             |              |
| J_MA0010.1_br_Z1 | 1.5681e-04     | -CTTTSTCT-----<br>NWYTTGTYTATNAN |              |
| J_MA0039.1_Klf4  | 3.0807e-04     | -AGASAAAG-<br>NAARRRAAGG         |              |
| J_MA0078.1_Sox17 | 7.9982e-04     | AGASAAAG--<br>-SACAATRN          |              |
| J_MA0081.1_SPIB  | 1.3188e-03     | CTTTSTCT<br>-TTCKST              |              |



38

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0442.1_SOX10 | 2.1068e-07     | NGACAAAGA<br>--ACAAWG-           |              |
| J_MA0010.1_br_Z1 | 1.7795e-04     | TCTTTGTCN-----<br>NWYTTGTYTATNAN |              |

J\_MA0277.1\_AZF1 2.4993e-04

--TCTTTGTCN  
TTTCTTTTT--



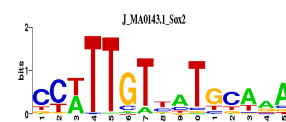
J\_MA0078.1\_Sox17 5.7327e-04

NGACAAAGA--  
-SACAATRNN



J\_MA0143.1\_Sox2 1.5226e-03

TCTTTGTCN-----  
CCWTTGTNATGCANA



11

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

J\_MA0370.1\_RME1 9.5888e-11

TTNCTTTG--  
TNCCTTTNNA



J\_MA0277.1\_AZF1 9.9965e-07

-CAAAGNAA  
AAAAAGAAA



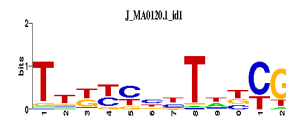
J\_MA0039.1\_Klf4 2.7835e-06

CAAAGNAA--  
NAARRRAAGG



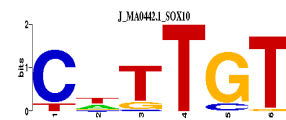
J\_MA0120.1\_id1 8.3726e-05

--CAAAGNAA--  
CGNNANNRRMNA



J\_MA0442.1\_SOX10 1.5250e-04

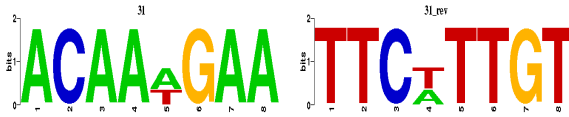
-CAAAGNAA  
ACAAWG---



31

# Stamp Results

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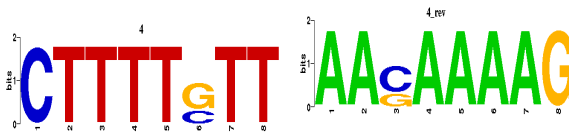


*forward*

*reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i>           |
|--------------------|----------------|-----------------------------------|------------------------|
| J_MA0442.1_SOX10   | 5.9327e-09     | ACAAWGAA<br>ACAAWG--              | J_MA0442.1_SOX10<br>   |
| J_MA0277.1_AZF1    | 8.6411e-07     | -TTCWTTGT<br>TTTCTTTT             | J_MA0277.1_AZF1<br>    |
| J_MA0192.1_Hmx     | 2.0065e-04     | ACAAWGAA<br>-CAATTAA              | J_MA0192.1_Hmx<br>     |
| J_MA0171.1_CG11085 | 2.0206e-04     | ACAAWGAA<br>-CAATTAA              | J_MA0171.1_CG11085<br> |
| J_MA0143.1_Sox2    | 2.3978e-04     | TTCWTTGT-----<br>-CCWTTGTNATGCANA | J_MA0143.1_Sox2<br>    |

4



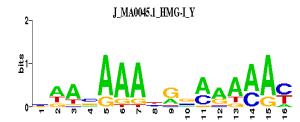
*forward*

*reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>                | <i>Motif</i>        |
|-----------------|----------------|---------------------------------|---------------------|
| J_MA00445.1_D   | 3.7307e-06     | --AACAAAAG-<br>ANAACAATRGN      | J_MA00445.1_D<br>   |
| J_MA0143.1_Sox2 | 1.4981e-05     | CTTTTGT-----<br>CCWTTGTNATGCANA | J_MA0143.1_Sox2<br> |

J\_MA0045.1\_HMG-I\_Y 2.1871e-05

—AACAAAAG-----  
 NNANAAANRNMRAAAY



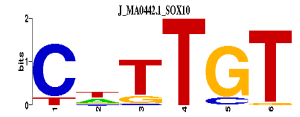
J\_MA0077.1\_SOX9 2.2789e-05

—AACAAAAG  
 NAACAATRG



J\_MA0442.1\_SOX10 2.1151e-04

AACAAAAG  
 —ACAAWG—



51

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

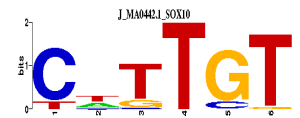
J\_MA00445.1\_D 1.5423e-05

---ACAAWAGG  
 ANAACAAATRGN



J\_MA0442.1\_SOX10 2.3020e-05

CCTWTTGT  
 --CWTTGT



J\_MA0077.1\_SOX9 6.6549e-05

CCTWTTGT--  
 —CYATTGTTN



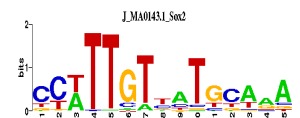
J\_MA0371.1\_ROX1 1.4636e-04

----ACAAWAGG  
 GAGAACAAATNGR



J\_MA0143.1\_Sox2 1.6664e-04

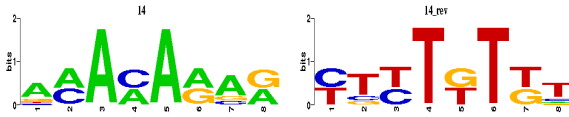
CCTWTTGT-----  
 —CCWTTGTNATGCANA



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# Stamp Results

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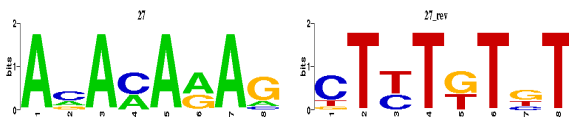


*forward*

*reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                            | <i>Motif</i> |
|------------------|----------------|---------------------------------------------|--------------|
| J_MA0277.1_AZF1  | 2.5347e-06     | AMAMARAR-<br>AAAAAGAAA                      |              |
| J_MA0041.1_Foxd3 | 5.8486e-05     | ----YTYTKTKT<br>NAWTGTTTNTTT                |              |
| J_MA0442.1_SOX10 | 2.9206e-04     | AMAMARAR<br>--ACAAWG                        |              |
| J_MA0343.1_NDT80 | 4.2752e-04     | -----YTYTKTKT-----<br>NNNNGNTTTTGTGKCNNNNNN |              |
| J_MA00445.1_D    | 5.0893e-04     | --YTYTKTKT-<br>NCYATTGTTNT                  |              |

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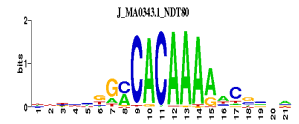
*forward*

*reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>     | <i>Motif</i> |
|------------------|----------------|----------------------|--------------|
| J_MA0442.1_SOX10 | 7.1224e-06     | ANAMARAG<br>--ACAAWG |              |
| J_MA0327.1_MATA1 | 2.0853e-04     | CTYTKTNT<br>-ATTGTGY |              |

J\_MA0343.1\_NDT80 2.6761e-04

----CTYTKTNT-----  
 NNNNGNTTTTGTGKCNNNNNN



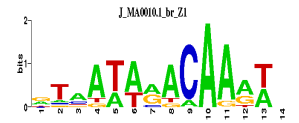
J\_MA0041.1\_Foxd3 8.9059e-04

ANAMARAG----  
 AAANAAACAWTN

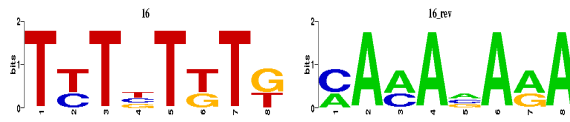


J\_MA0010.1\_br\_Z1 1.5188e-03

-CTYTKTNT-----  
 NWTGTGTATNAN



16

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

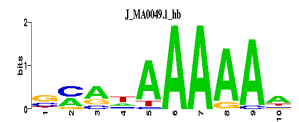
J\_MA0277.1\_AZF1 2.1786e-06

TYTNTKTK-  
 TTTCTTTT



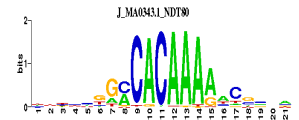
J\_MA0049.1\_hb 5.6878e-06

-TYTNTKTK-  
 NTTTTTNYKS



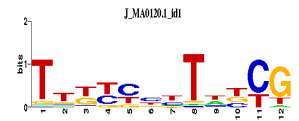
J\_MA0343.1\_NDT80 1.8372e-05

-----TYTNTKTK-----  
 NNNNGNTTTTGTGKCNNNNNN



J\_MA0120.1\_id1 1.2827e-03

--MAMANARA--  
 CGNNANNRRMNA



J\_MA0041.1\_Foxd3 1.3814e-03

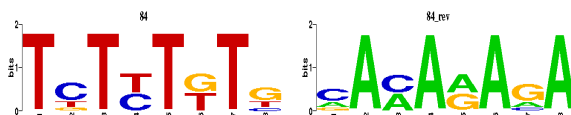
MAMANARA-----  
 -AAANAAACAWTN



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# Stamp Results

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*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

J\_MA0277.1\_AZF1 5.8497e-06

MAMARAGA--  
-AAAAAGAAA



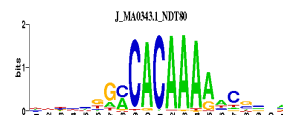
J\_MA0442.1\_SOX10 5.4846e-05

MAMARAGA  
-ACAAWG-



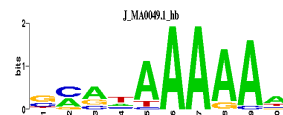
J\_MA0343.1\_NDT80 7.4345e-05

-----TCTYTKTK-----  
NNNNGNTTTTGTGKCNNNNNN



J\_MA0049.1\_hb 7.5417e-04

-TCTYTKTK-  
NTTTTNYKS

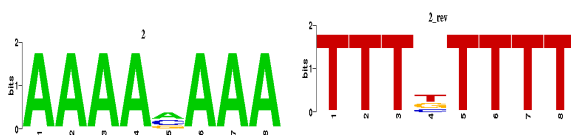


J\_MA0332.1\_MET28 4.8915e-03

-MAMARAGA  
CCACAG---



2



*forward*

*reverse compliment*

*Name*

*E value*

*Alignment*

*Motif*

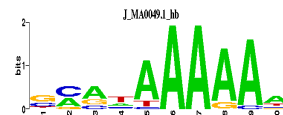
J\_MA0277.1\_AZF1 1.0560e-08

TTTNTTTT-  
TTTCTTTT



J\_MA0049.1\_hb 2.2069e-05

-TTTNTTTT-  
NTTTTNYKS



J\_MA0041.1\_Foxd3 4.2721e-05

-----TTTNTTTT  
NAWTGTTTNTTT--



J\_MA0013.1\_br\_Z4 8.1342e-05

TTTNTTTT---  
WTWNTTTACTA

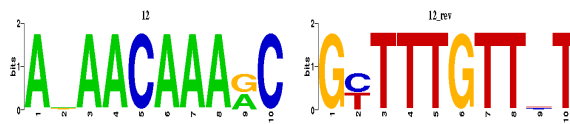


J\_MA00445.1\_D 1.0722e-04

AAAANAAA---  
ANAACAATRGN



12

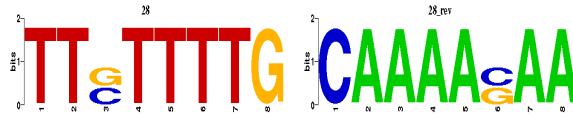
*forward**reverse compliment*

| Name             | E value    | Alignment                        | Motif |
|------------------|------------|----------------------------------|-------|
| J_MA00445.1_D    | 4.9124e-09 | ANAACAAARC-<br>ANAACAATRGN       |       |
| J_MA0137.1_STAT1 | 1.0209e-06 | --ANAACAAARC--<br>RGAAANNGAAACTN |       |
| J_MA0442.1_SOX10 | 2.0547e-06 | ANAACAAARC<br>---ACAAWG-         |       |
| J_MA0277.1_AZF1  | 4.0575e-06 | GYTTTGTTNT-<br>--TTCCTTTT        |       |
| J_MA0371.1_ROX1  | 1.4742e-05 | -ANAACAAARC-<br>GAGAACAATNGR     |       |

28

# Stamp Results

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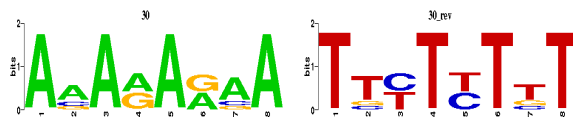


*forward*

*reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|-------------------|----------------|-----------------------------------|--------------|
| J_MA0277.1_AZF1   | 2.0807e-07     | -TTSTTTTG<br>TTTCTTTT             |              |
| J_MA0370.1_RME1   | 1.3214e-05     | TTSTTTTG--<br>TNCCTTTNNA          |              |
| J_MA0142.1_Pou5f1 | 1.3404e-05     | -----CAAASAA--<br>ATTGTCATNACAAG  |              |
| J_MA0143.1_Sox2   | 2.5889e-05     | -----CAAASAA--<br>TNTGTCATNACAAGG |              |
| J_MA00445.1_D     | 2.8349e-05     | CAAASAA-----<br>-ANAACAATRGN      |              |

30



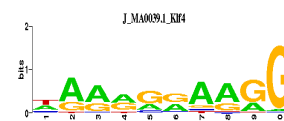
*forward*

*reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|-----------------|----------------|------------------------------|--------------|
| J_MA0277.1_AZF1 | 1.8723e-09     | AAARARAA-<br>AAAAAGAAA       |              |
| J_MA0120.1_id1  | 1.6040e-05     | ---AAARARAA-<br>CGNNANNRRMNA |              |

J\_MA0039.1\_Klf4 8.3411e-05

--TTYTYTTT  
CCTTYYYTTN



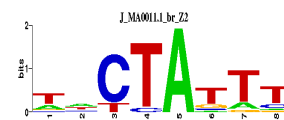
J\_MA0050.1\_IRF1 2.1029e-04

---TTYTYTTT-  
GGTTTCRNNTTN

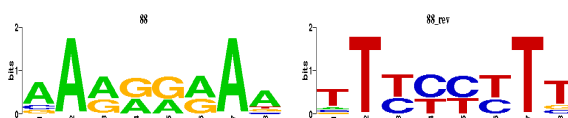


J\_MA0011.1\_br\_Z2 3.1510e-04

AAARARAA  
AAATAGNW



88

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

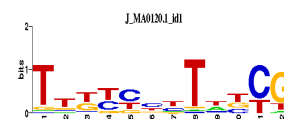
J\_MA0277.1\_AZF1 9.5988e-09

-AARRRRRAA  
AAAAAGAAA



J\_MA0120.1\_id1 1.6927e-08

---AARRRRRAA-  
CGNNANNRRMNA



J\_MA0039.1\_Klf4 1.4316e-07

AARRRRRAA--  
NAARRRAAGG



J\_MA0370.1\_RME1 8.1840e-06

TTYYYYTT---  
-TNCCTTTNNA



J\_MA0137.1\_STAT1 2.0325e-03

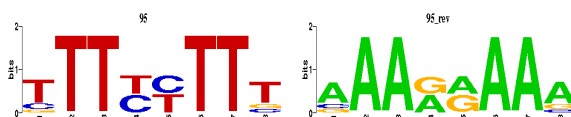
---TTYYYYTT---  
NAGTTTCNNTTCY



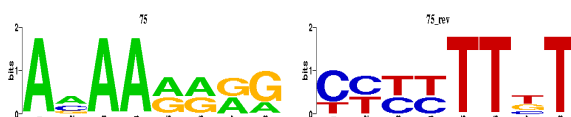
95

## Stamp Results

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*forward**reverse compliment*

| <i>Name</i>         | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
|---------------------|----------------|-----------------------------|--------------|
| J_MA0277.1_AZF1     | 1.2195e-10     | —AAARRAAA<br>AAAAAGAAA      |              |
| J_MA0039.1_Klf4     | 5.3676e-07     | —AAARRAAA—<br>NAARRRAAGG    |              |
| J_MA0120.1_id1      | 2.3246e-06     | —TTTYTTTT—<br>TNKYNNNTNNCG  |              |
| J_MA0370.1_RME1     | 2.5593e-06     | TTTYTTTT—<br>—TNCCTTTNNA    |              |
| J_MA0082.1_squamosa | 2.2880e-04     | —TTTYTTTT—<br>NTTNCYATWTWTK |              |



75

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i> |
|-----------------|----------------|----------------------------|--------------|
| J_MA0120.1_id1  | 2.2400e-05     | —ANAARRRG—<br>CGNNANNRRMNA |              |
| J_MA0039.1_Klf4 | 4.0485e-05     | —ANAARRRG—<br>NAARRRAAGG   |              |

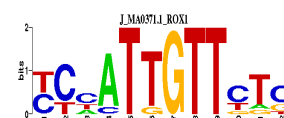
J\_MA0277.1\_AZF1 8.7871e-05

ANAARRRG-  
AAAAAGAAA

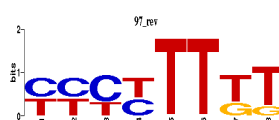
J\_MA0287.1\_CUP2 2.7840e-03

CYYTNTNT----  
-CWTTTGTGCTG

J\_MA0371.1\_ROX1 4.1566e-03

----ANAARRRG  
GAGAACAATNGR

97

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

J\_MA0277.1\_AZF1 1.4299e-07

AAAARGRR-  
AAAAAGAAA

J\_MA0120.1\_id1 7.8881e-06

-AAAARGRR-  
CGNNANNRRMNA

J\_MA0370.1\_RME1 2.8841e-04

YYCYTTTT--  
TNCCTTTNNA

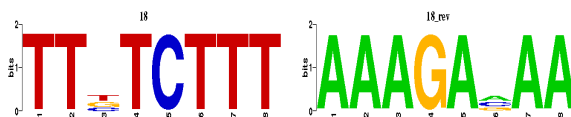
J\_MA0039.1\_Klf4 6.9071e-04

---YYCYTTTT  
CCTTYYYTTN-

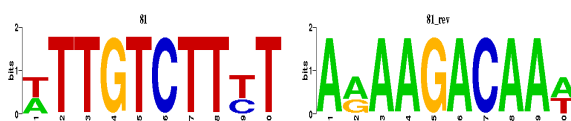
J\_MA0371.1\_ROX1 1.5845e-03

YYCYTTTT----  
YCNATTGTTCTC

18

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0277.1_AZF1  | 1.9588e-07     | TTNTCTTT--<br>-TTTCTTTTT         |              |
| J_MA0120.1_id1   | 4.3115e-06     | ----AAAGANAA<br>CGNNANNRRMNA     |              |
| J_MA0459.1_tII   | 1.0646e-05     | -TTNTCTTT-<br>KTTGACTTTT         |              |
| J_MA0010.1_br_Z1 | 6.5026e-05     | ---TTNTCTTT---<br>NWYTTGTYTATNAN |              |
| J_MA0370.1_RME1  | 2.9654e-04     | TTNTCTTT--<br>-TNCCTTTNNA        |              |

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0459.1_tII   | 1.3457e-08     | WTTGTCTTYT<br>KTTGACTTTT         |              |
| J_MA0010.1_br_Z1 | 4.5303e-08     | --WTTGTCTTYT--<br>NWYTTGTYTATNAN |              |

J\_MA0277.1\_AZF1 6.9922e-06

WTTGTCTTYT-  
--TTTCTTTTT



J\_MA0013.1\_br\_Z4 7.3385e-06

WTTGTCTTYT-  
WTWNTTTACTA

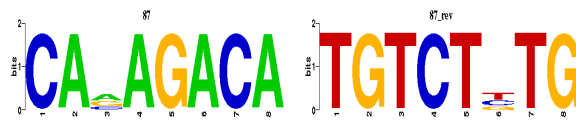


J\_MA0041.1\_Foxd3 2.2162e-05

-ARAAGACA-  
AAANAAACAWTN



87

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

J\_MA0277.1\_AZF1 4.5668e-04

TGTCTNTG-  
TTTCTTTTT



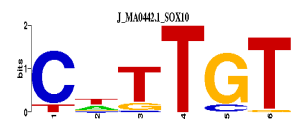
J\_MA0459.1\_tll 8.2732e-04

--TGTCTNTG  
KTTGACTTTT



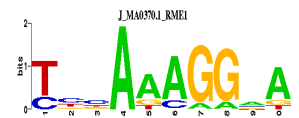
J\_MA0442.1\_SOX10 8.6202e-04

-CANAGACA  
ACAAWG---



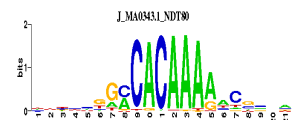
J\_MA0370.1\_RME1 2.1286e-03

TGTCTNTG--  
TNCCTTTNNA



J\_MA0343.1\_NDT80 3.7954e-03

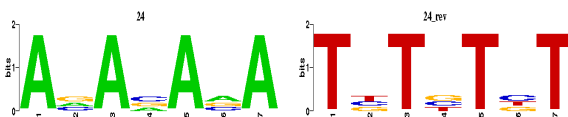
---TGTCTNTG-----  
NNNNGNTTTTGTGKCNNNNNN



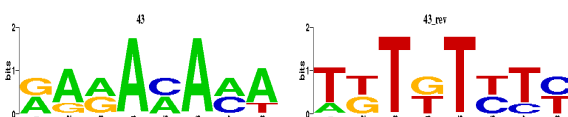
24

## Stamp Results

11/20/15

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                          | <i>Motif</i> |
|------------------|----------------|-------------------------------------------|--------------|
| J_MA0010.1_br_Z1 | 4.2479e-05     | --TNTNTNT-----<br>NWYTTGTYTATNAN          |              |
| J_MA0277.1_AZF1  | 6.0598e-04     | TNTNTNT--<br>TTTCTTTTT                    |              |
| J_MA0442.1_SOX10 | 2.4910e-03     | ANANANA--<br>--ACAAWG                     |              |
| J_MA0296.1_FKH1  | 2.8278e-03     | -----TNTNTNT-----<br>NNNNNTTTGTTTACANNWNN |              |
| J_MA0013.1_br_Z4 | 4.5735e-03     | TNTNTNT----<br>WTWNTTTACTA                |              |



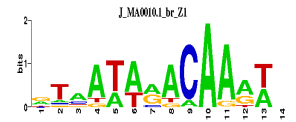
43

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>               | <i>Motif</i> |
|------------------|----------------|--------------------------------|--------------|
| J_MA0022.1_dl_1  | 1.3194e-04     | --RARAMAMA--<br>NGGAAAAACCCS   |              |
| J_MA0041.1_Foxd3 | 1.7500e-04     | RARAMAMA-----<br>-AAANAAACAWTN |              |

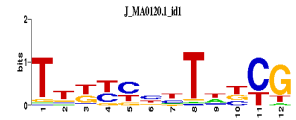
J\_MA0010.1\_br\_Z1 3.4215e-04

--TKTKTYTY----  
NWYTTGTYTATNAN



J\_MA0120.1\_id1 5.1984e-04

-----RARAMAMA  
CGNNANNRRMNA-

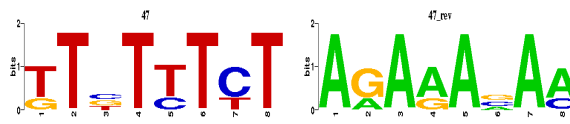


J\_MA0013.1\_br\_Z4 6.5927e-04

TKTKTYTY---  
WTWNTTACTA



47

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

J\_MA0277.1\_AZF1 8.2600e-07

AGAAANAA-  
AAAAAGAAA



J\_MA0040.1\_Foxq1 6.4028e-04

-AGAAANAA--  
WATAACAATN



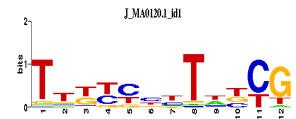
J\_MA0287.1\_CUP2 7.7789e-04

--TTNTTTCT-  
CWTTTYTGCTG



J\_MA0120.1\_id1 9.1022e-04

-----AGAAANAA  
CGNNANNRRMNA

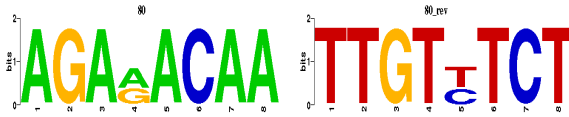


J\_MA0010.1\_br\_Z1 1.1713e-03

---TTNTTTCT---  
NWYTTGTYTATNAN

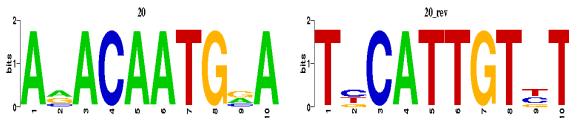


80

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0040.1_Foxq1 | 8.6548e-06     | --TTGTYTCT--<br>NATTGTTTATW      |              |
| J_MA0010.1_br_Z1 | 1.6965e-05     | ---TTGTYTCT---<br>NWYTTGTYTATNAN |              |
| J_MA0084.1_SRY   | 1.5541e-04     | -TTGTYTCT<br>ATTGTTWNN           |              |
| J_MA0030.1_FOXF2 | 5.5898e-04     | -TTGTYTCT-----<br>NNTGTTTACSNNTN |              |
| J_MA0233.1_mirr  | 6.1938e-04     | TTGTYTCT<br>-TGTTW--             |              |

20

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|-----------------|----------------|------------------------------|--------------|
| J_MA0371.1_ROX1 | 2.4288e-08     | --ANACAATGNA<br>GAGAACAATNGR |              |
| J_MA0077.1_SOX9 | 3.5952e-08     | TNCATTGTNT<br>-CYATTGTNT     |              |

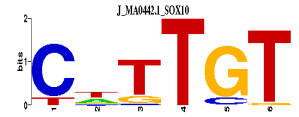
J\_MA00445.1\_D 9.2018e-08

TNCATTGTNT-  
NCYATTGTTNT

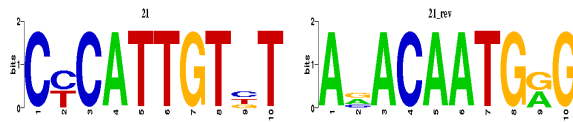
J\_MA0078.1\_Sox17 5.0785e-06

ANACAATGNA  
-SACAATRNN

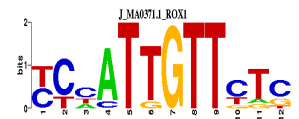
J\_MA0442.1\_SOX10 5.4660e-06

ANACAATGNA  
--ACAAGW--

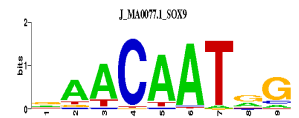
21

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

J\_MA0371.1\_ROX1 6.2441e-08

--ANACAATGRG  
GAGAACAATNGR

J\_MA0077.1\_SOX9 2.1297e-07

ANACAATGRG  
NAACAATRG-

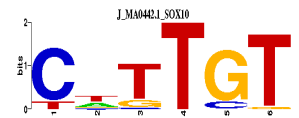
J\_MA00445.1\_D 2.5655e-07

CYCATTGTNT-  
NCYATTGTTNT

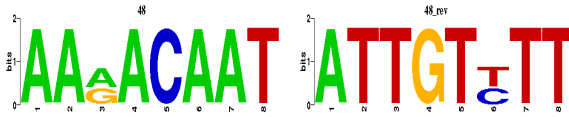
J\_MA0078.1\_Sox17 1.5939e-06

ANACAATGRG  
-SACAATRNN

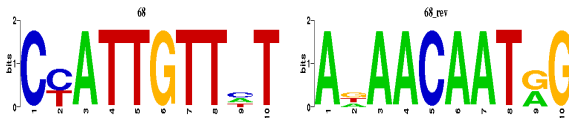
J\_MA0442.1\_SOX10 5.4660e-06

ANACAATGRG  
--ACAAGW--

48

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|------------------|----------------|------------------------------|--------------|
| J_MA00445.1_D    | 4.4574e-08     | AARACAAT---<br>ANAACAATRGN   |              |
| J_MA0084.1_SRY   | 4.4578e-07     | -AARACAAT<br>NNWAACAAT       |              |
| J_MA0040.1_Foxq1 | 8.0759e-07     | -ATTGTYTT--<br>NATTGTTTATW   |              |
| J_MA0371.1_ROX1  | 8.3277e-07     | -AARACAAT---<br>GAGAACAATNGR |              |
| J_MA0087.1_Sox5  | 2.0282e-06     | AARACAAT<br>-NAACAAT         |              |

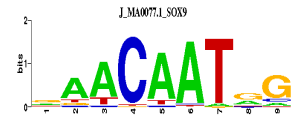


68

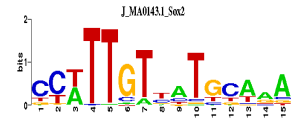
*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|-----------------|----------------|------------------------------|--------------|
| J_MA00445.1_D   | 2.4980e-14     | ANAACAATRG-<br>ANAACAATRGN   |              |
| J_MA0371.1_ROX1 | 2.4769e-13     | -CYATTGTTNT-<br>YCNATTGTTCTC |              |

J\_MA0077.1\_SOX9 3.7856e-11

CYATTGTTNT  
CYATTGTTN-

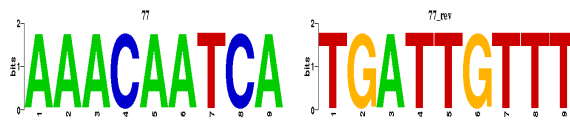
J\_MA0143.1\_Sox2 7.6477e-11

-----ANAACAATRG  
TNTGCATNACAAWGG

J\_MA0087.1\_Sox5 1.2059e-06

CYATTGTTNT  
--ATTGTTN-

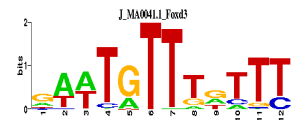
77

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

J\_MA0084.1\_SRY 1.9978e-07

--AAACAATCA  
NNWAACAAT--

J\_MA0041.1\_Foxd3 2.0432e-07

---TGATTGTTT  
NAWTGTTTNTTT

J\_MA0087.1\_Sox5 5.3559e-07

TGATTGTTT  
--ATTGTTN

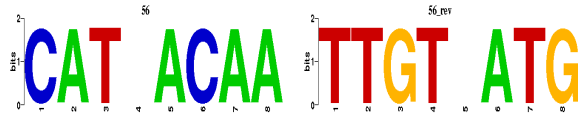
J\_MA0040.1\_Foxq1 7.7243e-07

TGATTGTTT---  
-NATTGTTTATW

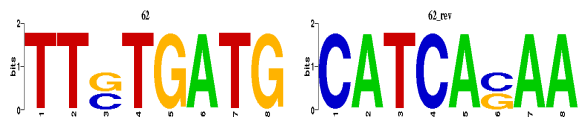
J\_MA0042.1\_FOXI1 1.4352e-06

AAACAATCA---  
AWAYAAAYANNN

56

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                   | <i>Motif</i> |
|-------------------|----------------|------------------------------------|--------------|
| J_MA0143.1_Sox2   | 1.0845e-08     | ----CATNACAA---<br>TNTGCATNACAAWGG |              |
| J_MA0142.1_Pou5f1 | 4.7838e-08     | -----CATNACAA--<br>ATTGTCATNACAAWG |              |
| J_MA0049.1_hb     | 1.7732e-04     | -TTGTNATG-<br>NTTTTNYKS            |              |
| J_MA0217.1_caup   | 4.8581e-04     | CATNACAA<br>--TAACA-               |              |
| J_MA0327.1_MATA1  | 1.5535e-03     | -TTGTNATG<br>ATTGTGY--             |              |



62

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                   | <i>Motif</i> |
|-------------------|----------------|------------------------------------|--------------|
| J_MA0142.1_Pou5f1 | 2.8702e-05     | -----CATCASAA--<br>ATTGTCATNACAAWG |              |
| J_MA0143.1_Sox2   | 3.7684e-05     | ----CATCASAA---<br>TNTGCATNACAAWGG |              |

J\_MA0287.1\_CUP2 3.8704e-04

---TTSTGATG  
CWTTTGTGCTG

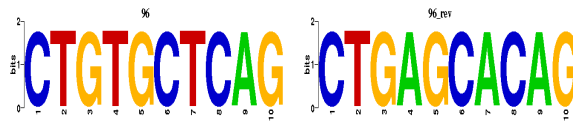
J\_MA0327.1\_MATA1 9.9875e-04

-TTSTGATG  
ATTGTGY--

J\_MA0199.1\_Optix 2.0408e-03

CATCASAA  
TATCA---

96

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

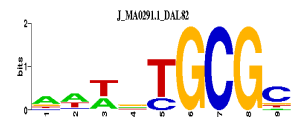
J\_MA0326.1\_MAC1 2.6503e-07

CTGTGCTCAG  
-TTTGCTCR-

J\_MA0332.1\_MET28 6.7282e-05

CTGAGCACAG  
----CCACAG

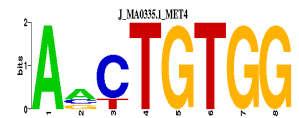
J\_MA0291.1\_DAL82 2.8049e-03

CTGAGCACAG-  
--GCGCANWWN

J\_MA0299.1\_GAL4 2.9273e-03

-----CTGTGCTCAG  
CGGNNNANANYNNTC--

J\_MA0335.1\_MET4 3.1810e-03

CTGAGCACAG--  
----CCACAGNT

7



*forward**reverse compliment*

| <i>Name</i>          | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|----------------------|----------------|-----------------------------------|--------------|
| J_MA0453.1_nub       | 6.8723e-11     | ---ATTWGCAT--<br>NTNATTTCATA      |              |
| J_MA0142.1_Pou5f1    | 1.7459e-10     | ATTWGCAT-----<br>ATTGTCATNACAAWG  |              |
| J_MA0143.1_Sox2      | 6.9747e-07     | -----ATGCWAAT<br>CCWTTGTNATGCANA- |              |
| J_MA0274.1_ARR1      | 4.1951e-06     | ATGCWAAT<br>ATTCARNT              |              |
| J_MA0328.1_MATALPHA2 | 3.0415e-05     | -ATGCWAAT<br>CATGTAATT            |              |

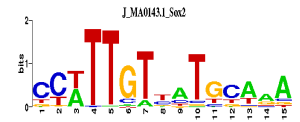
69

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                   | <i>Motif</i> |
|-------------------|----------------|------------------------------------|--------------|
| J_MA0453.1_nub    | 1.4599e-13     | TWTGCAAATN--<br>TATGCAAATNAN       |              |
| J_MA0142.1_Pou5f1 | 6.2939e-10     | -----TWTGCAAATN<br>CWTGTNATGCAAAT- |              |

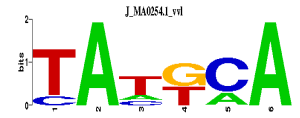
J\_MA0143.1\_Sox2 1.5341e-06

NATTTGCAWA-----  
 --TNTGCATNACAAWGG



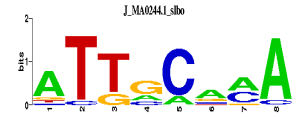
J\_MA0254.1\_vv1 1.1952e-05

TWTGCAAATN  
 TATKCA----

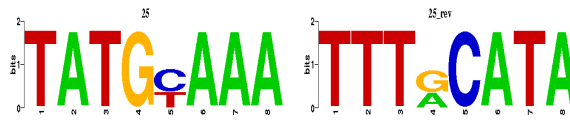


J\_MA0244.1\_slbo 2.9728e-05

NATTTGCAWA  
 --TKNGYAAT



25

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

J\_MA0453.1\_nub 1.2126e-11

TATGYAAA-----  
 TATGCAAATNAN



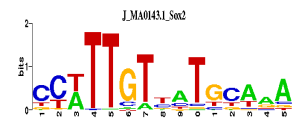
J\_MA0142.1\_Pou5f1 7.7416e-10

-----TATGYAAA-  
 CWTGTGATGCAAAT



J\_MA0143.1\_Sox2 1.3367e-09

TTTRCATA-----  
 TNTGCATNACAAWGG



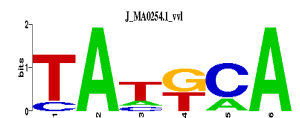
J\_MA0446.1\_fkh 1.9848e-06

-TATGYAAA--  
 NTRNNYAAACA

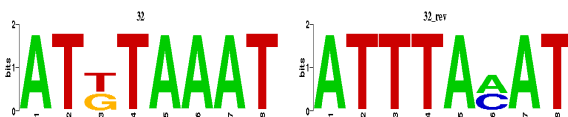


J\_MA0254.1\_vv1 4.3354e-06

TTTRCATA  
 --TGMATA



32

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

J\_MA0328.1\_MATALPHA2 1.7782e-08

ATTTAMAT-  
AATTACATG

J\_MA0453.1\_nub

2.8263e-07

-ATKTAAAT---  
TATGCAAATNAN

J\_MA0274.1\_ARR1

4.1182e-07

ATKTAAAT  
ATTCARNT

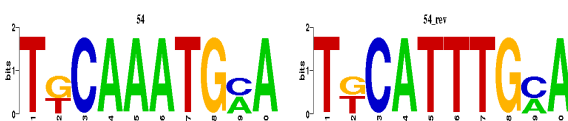
J\_MA0173.1\_CG11617

6.7216e-06

ATKTAAAT  
ATGTWAA-

J\_MA0142.1\_Pou5f1

2.2137e-05

ATTTAMAT-----  
ATTGTCATNACAAWG

54

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

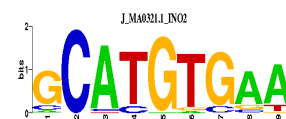
J\_MA0453.1\_nub 1.1441e-07

--TKCAAATGMA  
TATGCAAATNAN

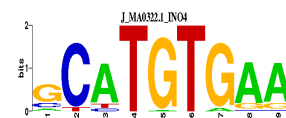
J\_MA0370.1\_RME1 2.3024e-06

TKCATTTGMA  
TNCCTTTNNA

J\_MA0321.1\_INO2 2.5521e-06

TKCAAATGMA  
TTCACATGC-

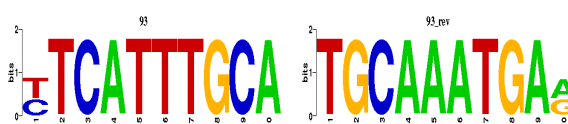
J\_MA0322.1\_INO4 7.1051e-06

TKCAAATGMA  
TTCACATGC-

J\_MA0274.1\_ARR1 7.6440e-05

-TKCAAATGMA  
ATTCARNT---

93

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

J\_MA0453.1\_nub 3.5981e-09

YTCATTTGCA--  
NTNATTTGCATA

J\_MA0370.1\_RME1 5.1819e-06

YTCATTTGCA  
TNCCTTTNNA

J\_MA0322.1\_INO4 3.7857e-05

TGCAAATGAR  
-GCATGTGAA

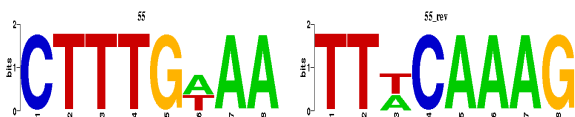
J\_MA0142.1\_Pou5f1 4.3346e-05

YTCATTTGCA-----  
---ATTGTCATNACAAG

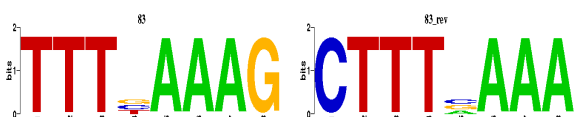
J\_MA0256.1\_zen 6.4052e-05

YTCATTTGCA  
-TCATTAR--

55

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>                  | <i>Motif</i> |
|-------------------|----------------|-----------------------------------|--------------|
| J_MA0442.1_SOX10  | 9.0296e-06     | CTTTGWAA<br>CWTITGT--             |              |
| J_MA0370.1_RME1   | 2.7364e-04     | ---CTTTGWAA<br>TNCCTTTNNA-        |              |
| J_MA0142.1_Pou5f1 | 3.0590e-04     | CTTTGWAA-----<br>CWTITGTNATGCAAAT |              |
| J_MA0253.1_vnd    | 3.2004e-04     | TTWCAAAG-<br>TYTCAAGTR            |              |
| J_MA0222.1_exd    | 4.8039e-04     | TTWCAAAG<br>TGTCAAAN              |              |



83

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>                 | <i>Motif</i> |
|------------------|----------------|----------------------------------|--------------|
| J_MA0370.1_RME1  | 1.9886e-05     | ---CTTTNAAA<br>TNCCTTTNNA-       |              |
| J_MA0017.1_NR2F1 | 2.9876e-04     | --TTTNAAAG----<br>NNGKNCAAAGKTCA |              |

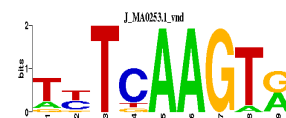
J\_MA0218.1\_ct 6.7559e-04

TTTNAAG  
GTTYAA--

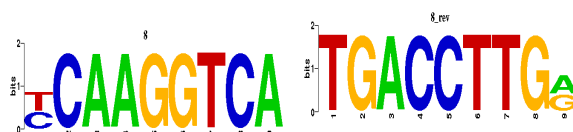
J\_MA0151.1\_ARID3A 9.0314e-04

CTTTNAAA  
-TTTAAT-

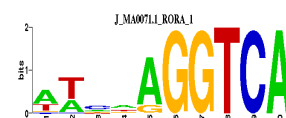
J\_MA0253.1\_vnd 9.8637e-04

TTTNAAG-  
TYTCAAGTR

8

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

J\_MA0071.1\_RORA\_1 1.0049e-11

TGACCTTGR-  
TGACCTNNWW

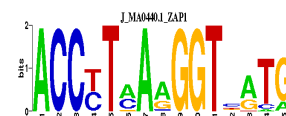
J\_MA0141.1\_Esrrb 4.1034e-10

TGACCTTGR---  
TGACCTTGRNNN

J\_MA0160.1\_NR4A2 5.3313e-09

-TGACCTTGR  
GTGACCTT--

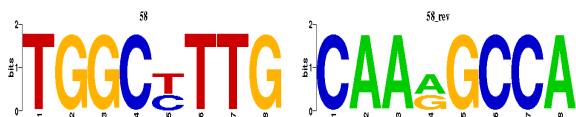
J\_MA0440.1\_ZAP1 4.8051e-08

--TGACCTTGR----  
CATNACCTTKARGGT

J\_MA0115.1\_NR1H2\_RXR 1.5923e-06

-----YCAAGGTCA--  
AAAGGTCAAAGGTCAAS

58

*forward**reverse compliment*

| <i>Name</i>       | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|-------------------|----------------|------------------------------|--------------|
| J_MA0071.1_RORA_1 | 2.5964e-05     | TGGCYTTG--<br>TGACCTNNWW     |              |
| J_MA0053.1_MNB1A  | 3.1379e-05     | TGGCYTTG<br>--NCTTT-         |              |
| J_MA0141.1_Esrrb  | 3.4925e-05     | TGGCYTTG----<br>TGACCTTGRNNN |              |
| J_MA0064.1_PBF    | 4.7415e-05     | TGGCYTTG<br>--RCTTT-         |              |
| J_MA0020.1_Dof2   | 1.3933e-04     | CAARGCCA<br>-AAAGCN-         |              |



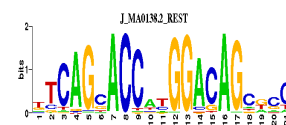
90

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i> |
|------------------|----------------|----------------------------|--------------|
| J_MA0002.2_RUNX1 | 1.8464e-05     | -AAGSACAG--<br>NAACCACARNN |              |
| J_MA0332.1_MET28 | 2.0107e-04     | AAGSACAG<br>--CCACAG       |              |

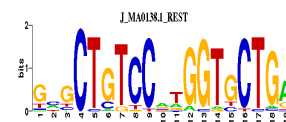
J\_MA0138.2\_REST 2.0263e-04

-----CTGTSCCT-----  
 GNNGCTGTCCNNGGTGCTGAN



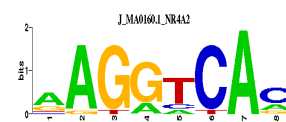
J\_MA0138.1\_REST 2.8611e-04

-----AAGSACAG---  
 TCAGCACCWNGGACAGCNC

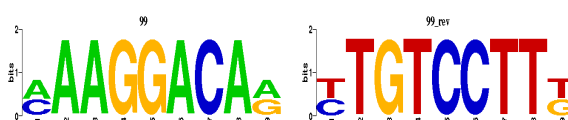


J\_MA0160.1\_NR4A2 3.5101e-04

CTGTSCCT  
 GTGACCTT

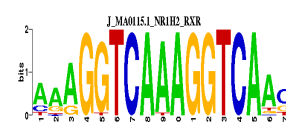


99

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

J\_MA0115.1\_NR1H2\_RXR 5.2065e-06

-----YTGTCCTTK  
 STTGACCTTTGACCTTT



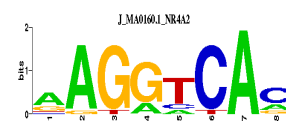
J\_MA0071.1\_RORA\_1 1.9893e-05

YTGTCCTTK--  
 -TGACCTNNWW



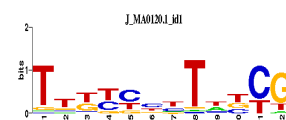
J\_MA0160.1\_NR4A2 3.6285e-05

YTGTCCTTK  
 GTGACCTT-



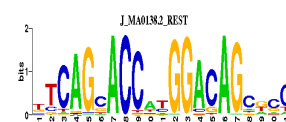
J\_MA0120.1\_id1 9.0719e-05

---MAAGGACAR  
 CGNNANNRRMNA

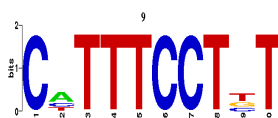


J\_MA0138.2\_REST 1.1774e-04

-----YTGTCCTTK-----  
 GNNGCTGTCCNNGGTGCTGAN



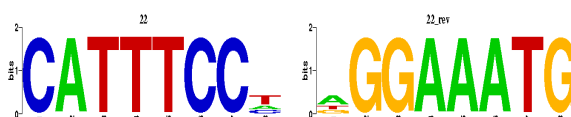
9



*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
|-----------------|----------------|-------------------------------|--------------|
| J_MA0156.1_FEV  | 9.5775e-08     | CNTTTCCTNT<br>-AYTTCCTG-      |              |
| J_MA0277.1_AZF1 | 8.4391e-07     | CNTTTCCTNT-<br>--TTTCTTTT     |              |
| J_MA0081.1_SPIB | 4.9480e-06     | ANAGGAAANG<br>ASMGGAA---      |              |
| J_MA0370.1_RME1 | 8.4876e-06     | ---ANAGGAAANG<br>TNNAAGGNA--- |              |
| J_MA0080.2_SPI1 | 2.5148e-05     | CNTTTCCTNT<br>-ACTTCCT--      |              |

22

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>      | <i>Motif</i> |
|-----------------|----------------|-----------------------|--------------|
| J_MA0156.1_FEV  | 1.1260e-07     | CATTTCN-<br>-AYTTCCTG |              |
| J_MA0438.1_YRM1 | 1.2337e-06     | CATTTCN-<br>-ATNTCCGN |              |

J\_MA0080.2\_SPI1 3.8348e-06

CATTTCN  
-ACTTCCT

J\_MA0136.1\_ELF5 7.0561e-06

-NGGAAATG  
NMGGAARTN

J\_MA0107.1\_RELA 1.9092e-05

NGGAAATG---  
-GGAAANTCCC

60

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

J\_MA0438.1\_YRM1 1.8313e-05

TCMTTTC--  
--ATNTCCGN

J\_MA0101.1\_REL 2.9007e-05

GGAAAKGA--  
GGAAWNYYCCN

J\_MA0137.1\_STAT1 3.8345e-05

-----TCMTTTC--  
NAGTTTCNNTTTCY

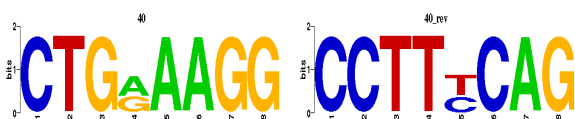
J\_MA0107.1\_RELA 9.4993e-05

GGAAAKGA--  
GGAAANTCCC

J\_MA0156.1\_FEV 9.8852e-05

TCMTTTC--  
--AYTTCCTG

40

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
|--------------------|----------------|-----------------------------|--------------|
| J_MA0039.1_Klf4    | 6.0716e-05     | --CTGRAAGG<br>NAARRRAAGG    |              |
| J_MA0304.1_GCR1    | 7.6405e-05     | -CCTTYCAG<br>GGCTTCCA-      |              |
| J_MA0026.1_Eip74EF | 3.8394e-04     | CCTTYCAG<br>-YTTCCGG        |              |
| J_MA0144.1_Stat3   | 6.6372e-04     | ----CTGRAAGG<br>CTTCNGGAA-- |              |
| J_MA0393.1_STE12   | 9.4215e-04     | CCTTYCAG<br>YGTTTCA-        |              |



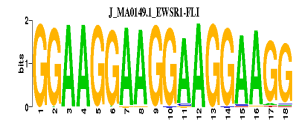
67

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i> |
|-----------------|----------------|----------------------------|--------------|
| J_MA0277.1_AZF1 | 2.3756e-05     | --TCYTTTCT<br>TTTCTTTT-    |              |
| J_MA0039.1_Klf4 | 2.6860e-05     | ---AGAAARGA<br>NAARRRAAGG- |              |

J\_MA0149.1\_EWSR1-FLI 4.4609e-05

---AGAAARGA-----  
GGAAGGAAGGAAGGAAGG



J\_MA0029.1\_Evi1 7.0468e-05

-----TCYTTTCT-  
NNTTATCTTCTCTN

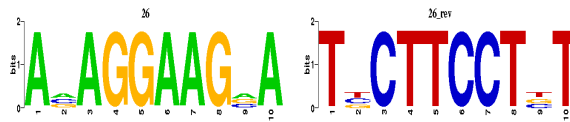


J\_MA0370.1\_RME1 1.2095e-04

-TCYTTTCT-  
TNCCTTTNNA



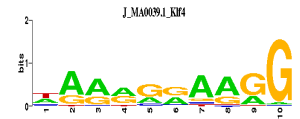
26

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

J\_MA0039.1\_Klf4

2.9932e-07

-ANAGGAAGNA  
NAARRRAAGG-



J\_MA0149.1\_EWSR1-FLI 4.9728e-07

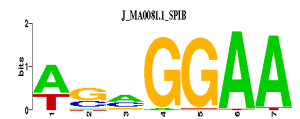
---TNCTTCCTNT-----  
CCTTCCTTCCTTCCTTCC



J\_MA0081.1\_SPIB

5.7516e-07

TNCTTCCTNT  
---TTCKST



J\_MA0080.2\_SPI1

1.4526e-06

TNCTTCCTNT  
-ACTTCCT--



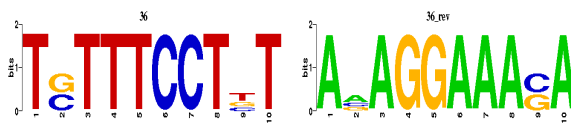
J\_MA0062.1\_GABPA

3.8472e-05

ANAGGAAGNA  
ACCGGAAGNS

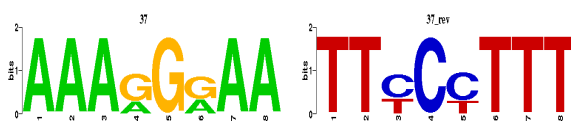


36

*forward**reverse compliment*

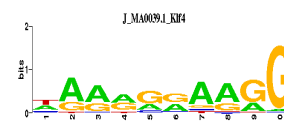
| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>              | <i>Motif</i> |
|------------------|----------------|-------------------------------|--------------|
| J_MA0148.1_FOXA1 | 3.0701e-07     | —ANAGGAAASA<br>NWRWGYAAACA    |              |
| J_MA0277.1_AZF1  | 8.4391e-07     | TSTTTCCTNT—<br>—TTCCTTTTT     |              |
| J_MA0081.1_SPIB  | 4.9480e-06     | ANAGGAAASA<br>ASMGGAA---      |              |
| J_MA0047.2_Foxa2 | 5.1740e-06     | --ANAGGAAASA<br>NNWRWGTAAACA  |              |
| J_MA0370.1_RME1  | 8.4876e-06     | ---ANAGGAAASA<br>TNNAAGGNA--- |              |

37

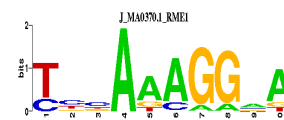
*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|-----------------|----------------|------------------------------|--------------|
| J_MA0277.1_AZF1 | 3.3457e-08     | —AAAGGRAA<br>AAAAAGAAA       |              |
| J_MA0120.1_id1  | 1.1146e-07     | ---AAAGGRAA—<br>CGNNANNRRMNA |              |

J\_MA0039.1\_Klf4 7.2477e-07

AAAGGRAA--  
NAARRRAAGG

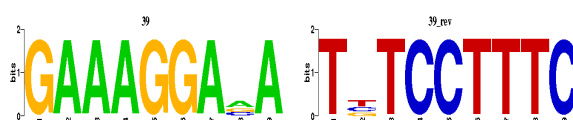
J\_MA0370.1\_RME1 2.3401e-06

TTYCCTTT---  
-TNCCTTTNNA

J\_MA0050.1\_IRF1 1.3769e-05

-AAAGGRAA---  
NAAANYGAAACC

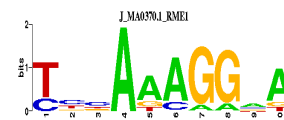
39

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

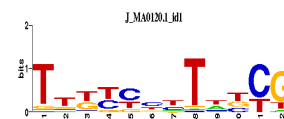
J\_MA0277.1\_AZF1 3.4137e-07

TNTCCTTTC  
TTTCTTTTC

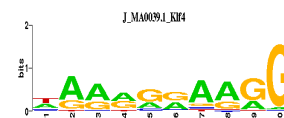
J\_MA0370.1\_RME1 2.7572e-06

TNTCCTTTC--  
-TNCCTTTNNA

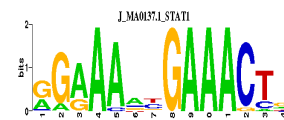
J\_MA0120.1\_id1 6.9617e-06

--GAAAGGANA-  
CGNNANNRRMNA

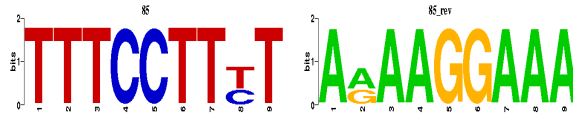
J\_MA0039.1\_Klf4 1.2228e-04

GAAAGGANA-  
NAARRRAAGG

J\_MA0137.1\_STAT1 2.1855e-04

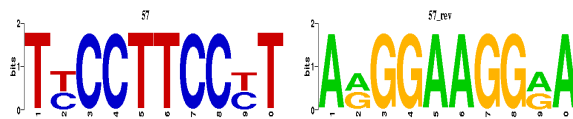
---TNTCCTTTC--  
NAGTTTCNNTTTCY

85

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>                   | <i>Motif</i> |
|--------------------|----------------|------------------------------------|--------------|
| J_MA0277.1_AZF1    | 4.6458e-11     | TTTCCTTYT<br>TTTCTTTT              |              |
| J_MA0120.1_id1     | 1.3501e-07     | -TTTCCTTYT--<br>TNKYNNNTNCG        |              |
| J_MA0137.1_STAT1   | 6.6301e-07     | ---TTTCCTTYT--<br>NAGTTTCNNTTTCY   |              |
| J_MA0370.1_RME1    | 1.3026e-06     | TTTCCTTYT--<br>-TNCCTTTNNA         |              |
| J_MA0045.1_HMG-I_Y | 6.7876e-06     | ---TTTCCTTYT---<br>RTTTYKNYNTTNTNN |              |

57

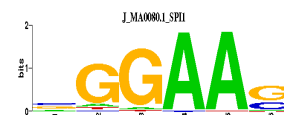
*forward**reverse compliment*

| <i>Name</i>          | <i>E value</i> | <i>Alignment</i>                       | <i>Motif</i> |
|----------------------|----------------|----------------------------------------|--------------|
| J_MA0149.1_EWSR1-FLI | 7.5395e-12     | -----TYCCTTCCYT--<br>CCTTCCTTCCTTCCTCC |              |
| J_MA0039.1_Klf4      | 6.5592e-08     | --ARGGAAGGRA<br>NAARRRAAGG--           |              |

J\_MA0080.2\_SPI1 1.1879e-05

ARGGAAGGRA  
-AGGAAGT--

J\_MA0080.1\_SPI1 1.5380e-04

TYCCTTCCT  
---STTCN-

J\_MA0305.1\_GCR2 6.7460e-04

ARGGAAGGRA  
-NGGAAGC--

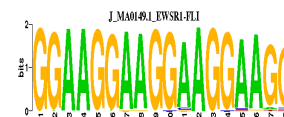
78

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

J\_MA0080.2\_SPI1 2.7444e-06

TCTTCYTT  
ACTTCCT-

J\_MA0149.1\_EWSR1-FLI 7.7861e-06

-----TCTTCYTT--  
CCTTCCTTCCTTCCTTC

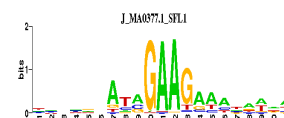
J\_MA0277.1\_AZF1 1.8490e-05

TCTTCYTT--  
-TTTCTTTTT

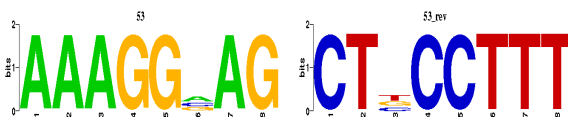
J\_MA0039.1\_Klf4 2.0218e-05

--AARGAAGA  
NAARRRAAGG

J\_MA0377.1\_SFL1 1.0364e-04

-----AARGAAGA-----  
NNNNNNANNGAAGAWNNNNWNW

53

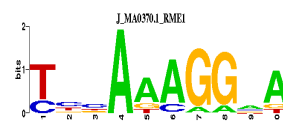
*forward**reverse compliment**Name**E value**Alignment**Motif*

J\_MA0370.1\_RME1

1.2132e-07

CTNCCTTT---

-TNCCTTTNNA

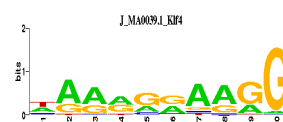


J\_MA0039.1\_Klf4

3.8377e-07

-AAAGGNAG-

NAARRRAAGG



J\_MA0080.2\_SPI1

5.5275e-06

-CTNCCTTT

ACTTCCT--



J\_MA0149.1\_EWSR1-FLI

7.8505e-06

-----CTNCCTTT-----

CCTTCCTTCCTTCCTTC



J\_MA0277.1\_AZF1

5.5896e-05

CTNCCTTT-

TTTCTTTT



79

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

J\_MA0053.1\_MNB1A

2.9649e-06

CTKGCTTT

---NCTTT



J\_MA0064.1\_PBF

4.7085e-06

CTKGCTTT

---RCTTT



J\_MA0020.1\_Dof2 1.7915e-05

CTKGCTTT  
--NGCTTT

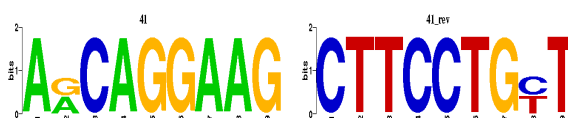
J\_MA0021.1\_Dof3 3.0432e-05

CTKGCTTT  
--NRCTTT

J\_MA0277.1\_AZF1 2.9106e-04

CTKGCTTT--  
-TTCTTTTT

41

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

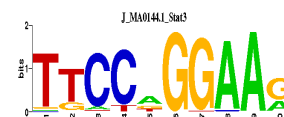
J\_MA0323.1\_IXR1 8.7801e-08

-ARCAGGAAG-----  
AARCCGGAAGCGGKG

J\_MA0156.1\_FEV 2.2758e-07

-CTTCCTGYT  
AYTTCCTG--

J\_MA0144.1\_Stat3 4.9307e-07

CTTCCTGYT-  
CTTCNGGAA

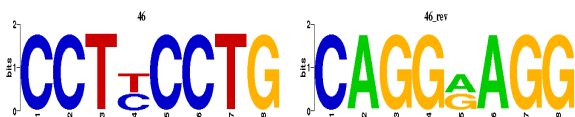
J\_MA0026.1\_Eip74EF 6.0037e-07

CTTCCTGYT  
YTTCGG--

J\_MA0080.2\_SPI1 6.4951e-07

-CTTCCTGYT  
ACTTCCT---

46

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

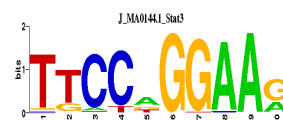
J\_MA0156.1\_FEV

8.8757e-07

CCTYCCTG  
AYTTCCTG

J\_MA0144.1\_Stat3

9.2730e-07

CCTYCCTG---  
-CTTCCNGGAA

J\_MA0026.1\_Eip74EF

3.3997e-06

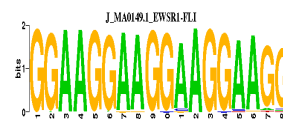
CAGGRAGG  
CCGGAAR-

J\_MA0080.2\_SPI1

3.6623e-06

CCTYCCTG  
ACTTCCT-

J\_MA0149.1\_EWSR1-FLI 5.7634e-06

--CAGGRAGG-----  
GGAAGGAAGGAAGGAAGG

70

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

J\_MA0305.1\_GCR2 1.2734e-06

TCAGCTTCCT  
---GCTTCN

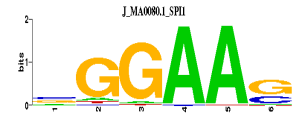
J\_MA0080.2\_SPI1 1.4526e-06

TCAGCTTCCT  
---ACTTCCT

J\_MA0304.1\_GCR1 1.3325e-05

AGGAAGCTGA  
TGGAAGCC--

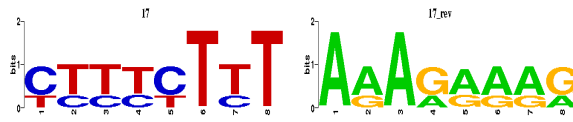
J\_MA0080.1\_SPI1 1.5380e-04

TCAGCTTCCT  
----STTCN

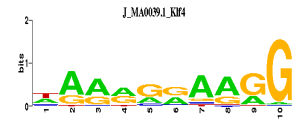
J\_MA0156.1\_FEV 3.3647e-04

TCAGCTTCCT-  
---AYTTCCTG

17

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

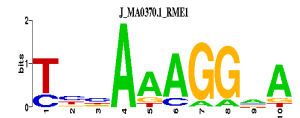
J\_MA0039.1\_Klf4 3.2134e-10

-AAAGAAAG-  
NAARRRAAGG

J\_MA0277.1\_AZF1 4.3359e-07

CTTTCCTT--  
-TTTCTTTTT

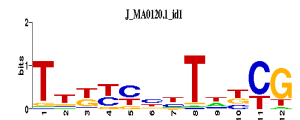
J\_MA0370.1\_RME1 9.8797e-06

---AAAGAAAG  
TNNAAGGNA-

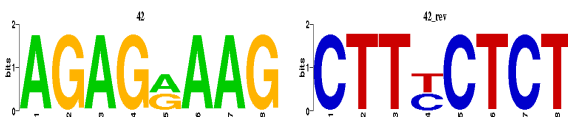
J\_MA0080.2\_SPI1 1.9294e-04

-CTTTCCTT  
ACTTCCT--

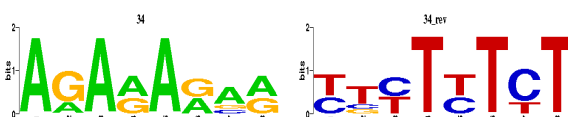
J\_MA0120.1\_id1 4.7610e-04

----AAAGAAAG  
CGNNANNRRMNA

42

*forward**reverse compliment*

| <i>Name</i>      | <i>E value</i> | <i>Alignment</i>          | <i>Motif</i> |
|------------------|----------------|---------------------------|--------------|
| J_MA0081.1_SPIB  | 7.1218e-08     | CTTYCTCT<br>-TTCKST       |              |
| J_MA0039.1_Klf4  | 3.6173e-07     | -AGAGRAAG-<br>NAARRRAAG   |              |
| J_MA0080.2_SPI1  | 3.1401e-06     | -CTTYCTCT<br>ACTTCCT--    |              |
| J_MA0370.1_RME1  | 3.9285e-04     | CTTYCTCT---<br>-TNCCTTTNN |              |
| J_MA0144.1_Stat3 | 5.8865e-04     | CTTYCTCT--<br>CTTCCNGGAA  |              |



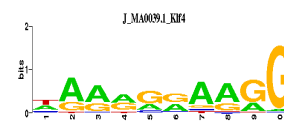
34

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>          | <i>Motif</i> |
|-----------------|----------------|---------------------------|--------------|
| J_MA0277.1_AZF1 | 6.9987e-06     | AGARARAR-<br>AAAAAGAAA    |              |
| J_MA0287.1_CUP2 | 1.6014e-04     | -AGARARAR--<br>CAGCARAAWG |              |

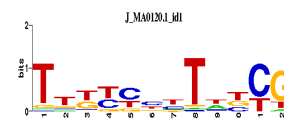
J\_MA0039.1\_Klf4 2.5335e-04

—YTYTYTCT—  
CCTTYYYTTN



J\_MA0120.1\_id1 2.0005e-03

----YTYTYTCT  
TNKYNNNTNNCG



J\_MA0294.1\_EDS1 4.5821e-03

YTYTYTCT—  
NTTNTTCCN



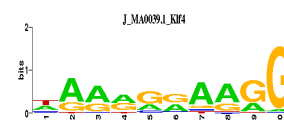
73

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

J\_MA0039.1\_Klf4

3.5064e-04

—CTYTCTCT—  
CCTTYYYTTN



J\_MA0081.1\_SPIB

2.1461e-03

CTYTCTCT  
—TTCKST



J\_MA0277.1\_AZF1

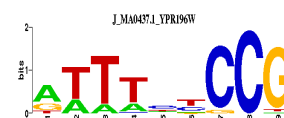
2.9586e-03

CTYTCTCT—  
—TTTCTTTT



J\_MA0437.1\_YPR196W 4.5674e-03

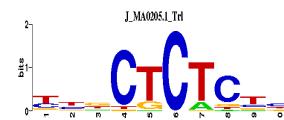
—AGAGARAG  
CGGRNAAAT



J\_MA0205.1\_Trl

7.7624e-03

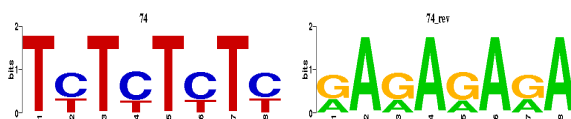
—AGAGARAG—  
NNGAGAGNNR



74

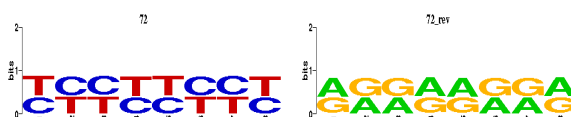
## Stamp Results

11/20/15

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|--------------------|----------------|------------------------------|--------------|
| J_MA0277.1_AZF1    | 1.5025e-04     | -GAGAGAGA<br>AAAAAGAAA       |              |
| J_MA0120.1_id1     | 1.0012e-03     | -GAGAGAGA---<br>CGNNANNRRMNA |              |
| J_MA0050.1_IRF1    | 1.8843e-03     | ----TCTCTCTC<br>GGTTTCRNTTTN |              |
| J_MA0039.1_Klf4    | 4.3310e-03     | --TCTCTCTC<br>CCTTYYTTN      |              |
| J_MA0437.1_YPR196W | 6.6067e-03     | GAGAGAGA-<br>CGGRNAAAT       |              |

72

*forward**reverse compliment*

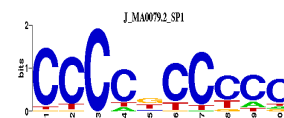
| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>            | <i>Motif</i> |
|-----------------|----------------|-----------------------------|--------------|
| J_MA0039.1_Klf4 | 1.5232e-07     | YYYYYYYY--<br>CCTTYYTTN     |              |
| J_MA0120.1_id1  | 1.5691e-05     | -RRRRRRRR--<br>CGNNANNRRMNA |              |

78

J\_MA0277.1\_AZF1 3.5674e-03

RRRRRRRR-  
AAAAAGAAA

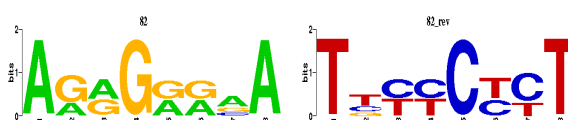
J\_MA0079.2\_SP1 6.6446e-03

-YYYYYYYY-  
CCCNCCCCC

J\_MA0149.1\_EWSR1-FLI 6.7501e-03

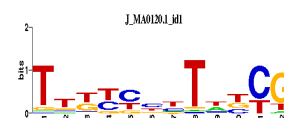
-----YYYYYYYY--  
CCTTCCTTCCTTCCTCC

82

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

J\_MA0120.1\_id1

7.2070e-06

----AGRGRRNA  
CGNNANNRRMNA

J\_MA0039.1\_Klf4

2.7060e-05

-TNYYCYCT-  
CCTTYYTNN

J\_MA0081.1\_SPIB

1.4277e-04

TNYYCYCT  
-TTCKST

J\_MA0057.1\_MZF1\_5-13 8.1894e-04

TNYYCYCT--  
NTNCCCCTMN

J\_MA0366.1\_RGM1

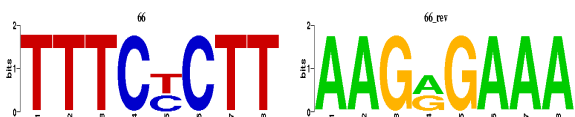
1.2590e-03

AGRGRRNA  
AGGGG---

50

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>         | <i>Motif</i> |
|--------------------|----------------|--------------------------|--------------|
| J_MA0039.1_Klf4    | 7.3257e-05     | -CTTCYCTG-<br>CCTTYYYTTN |              |
| J_MA0437.1_YPR196W | 2.3822e-04     | CAGRGAAG-<br>CGGRNAAAT   |              |
| J_MA0080.1_SPI1    | 3.7559e-04     | CTTCYCTG<br>STTCN--      |              |
| J_MA0080.2_SPI1    | 9.1145e-04     | -CTTCYCTG<br>ACTTCCT--   |              |
| J_MA0156.1_FEV     | 9.9053e-04     | CTTCYCTG<br>AYTTCCTG     |              |

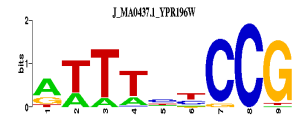


66

*forward**reverse compliment*

| <i>Name</i>     | <i>E value</i> | <i>Alignment</i>           | <i>Motif</i> |
|-----------------|----------------|----------------------------|--------------|
| J_MA0277.1_AZF1 | 1.8142e-07     | TTTCYCTT-<br>TTTCTTTT      |              |
| J_MA0120.1_id1  | 1.3870e-06     | ----AAGRGA<br>CGNNANNRRMNA |              |

J\_MA0437.1\_YPR196W 4.7997e-05

AAGRGAAA--  
CGGRNAAAT

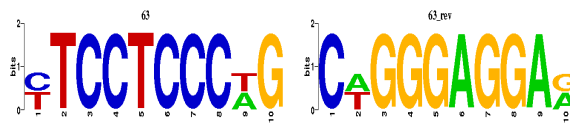
J\_MA0050.1\_IRF1 6.8937e-05

--AAGRGAAA--  
NAAANYGAAACC

J\_MA0082.1\_squamosa 1.0412e-04

-TTTCYCTT-----  
NTTNCYATWTWTGK

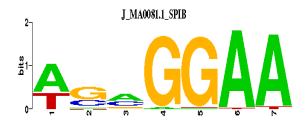
63

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

J\_MA0149.1\_EWSR1-FLI 1.6128e-04

-----YTCCTCCCWG--  
CCTTCCTTCCTTCCTTC

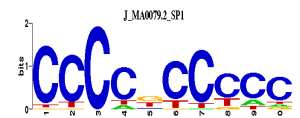
J\_MA0081.1\_SPIB 1.8772e-04

CWGGGAGGAR  
---ASMGGAA

J\_MA0283.1\_CHA4 4.9460e-04

CWGGGAGGAR-  
---GGCGGAGN

J\_MA0079.2\_SP1 5.6159e-04

CWGGGAGGAR  
GGGGGNGGGG

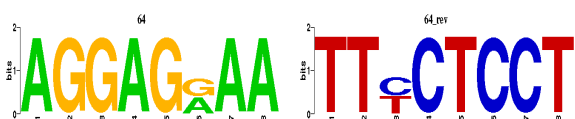
J\_MA0090.1\_TEAD1 1.1626e-03

CWGGGAGGAR----  
--CNSWGGAATGTR

98

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>             | <i>Motif</i> |
|--------------------|----------------|------------------------------|--------------|
| J_MA0130.1_ZNF354C | 3.0436e-05     | GGGWGGAG<br>--GTGGAK         |              |
| J_MA0373.1_RPN4    | 1.0365e-04     | CTCCWCCC<br>CGCCACC-         |              |
| J_MA0283.1_CHA4    | 1.4205e-04     | -CTCCWCCC<br>NCTCCGCC-       |              |
| J_MA0079.2_SP1     | 2.3977e-04     | --GGGWGGAG<br>GGGGGNGGGG     |              |
| J_MA0090.1_TEAD1   | 3.3352e-04     | ----CTCCWCCC<br>YACATTCCWSNG |              |



64

*forward**reverse compliment*

| <i>Name</i>        | <i>E value</i> | <i>Alignment</i>       | <i>Motif</i> |
|--------------------|----------------|------------------------|--------------|
| J_MA0437.1_YPR196W | 7.8702e-06     | AGGAGRAA-<br>CGGRNAAAT |              |
| J_MA0081.1_SPIB    | 1.7285e-05     | AGGAGRAA<br>-ASMGGAA   |              |

# Stamp Results

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J\_MA0090.1\_TEAD1 3.3542e-05

----TTYCTCCT  
YACATTCCWSNG



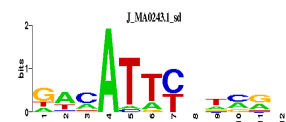
J\_MA0287.1\_CUP2 5.5208e-04

--TTYCTCCT-  
CWTTYTGCTG



J\_MA0243.1\_sd 8.1375e-04

AGGAGRAA----  
NYNNNRAATKWN



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STAMP is written by Shaun Mahony