

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

Input file: [25 motifs loaded](#)

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

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

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

[Download results as a PDF](#)

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

Multiple Alignment

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

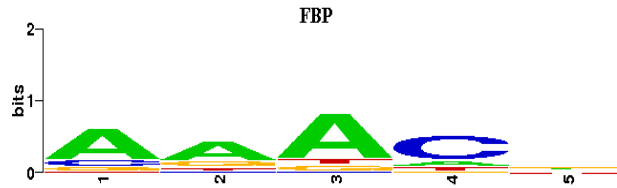
```

Motif1:      ---AGCAGACGA----
Motif2:      --GTATAAAARG----
Motif3:      ----GCAGWNGNCW--
Motif4:      -----RACTGA---
Motif5:      ----GGCAACNYNG--
Motif6:      ----CYAGATGGCG--
Motif7:      --GKAGATACTC----
Motif8:      -TATAAAAACC-----
Motif9:      ATCTGGCAAC-----
Motif10:     ---TRRNANNGN----
Motif11:     ---TGTAACAA----
Motif12:     -CCGCTAGAGG-----
Motif13:     -KRNNKNNR-----
Motif14:     -----AAAATGGCGG
Motif15:     --AGCGCCACCT----
Motif16:     TCGAMTGANC-----
Motif17:     -----TAAACAGTA--
Motif18:     -GWGASAAAAR-----
Motif19:     --TGTCAAA-----
Motif20:     -TATCAAAACA-----
Motif21:     -----AAACTCATTA
Motif22:     -----NATCAGCTGW
Motif23:     ATACTGACAC-----
  
```

Motif24: --GGAGGAAGGG----

Motif25: ---CAGAAGCGTG---

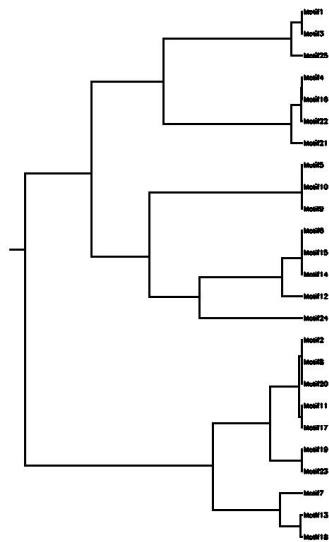
Familial Profile:
(click for matrix)



Motif Tree

Tree (drawn by **Phylip**)









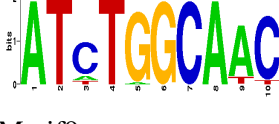

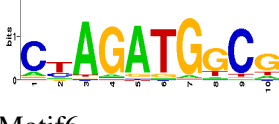

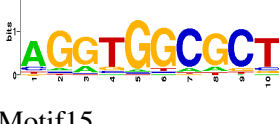



[Click here for Newick-format tree \(viewable with MEGA\)](#)



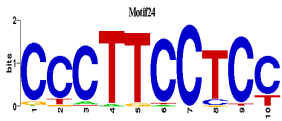
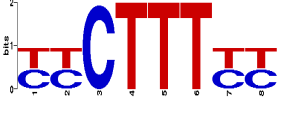




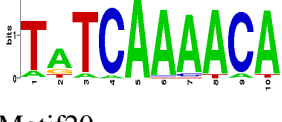

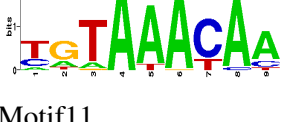


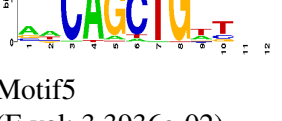
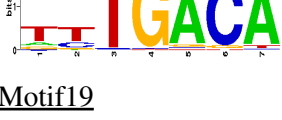



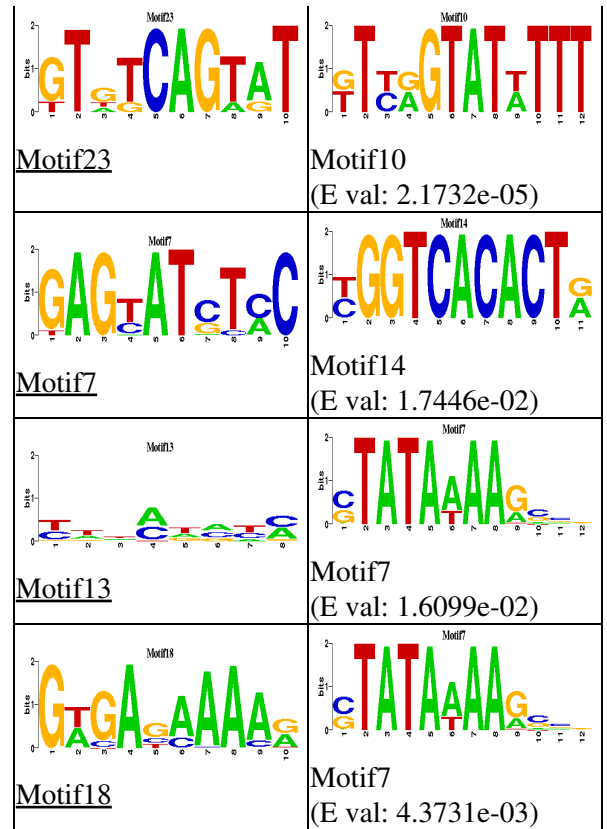
Input Motif

Best match in
user-defined

| | |
|--------------------|---|
| Motif1 | Motif14 (E val: 1.3581e-01) |
| Motif3 | Motif6 (E val: 6.2289e-02) |
| Motif25 | Motif14 (E val: 3.1030e-02) |
| Motif4 | Motif6 (E val: 8.3818e-09) |
| Motif16 | Motif6 (E val: 2.4534e-04) |

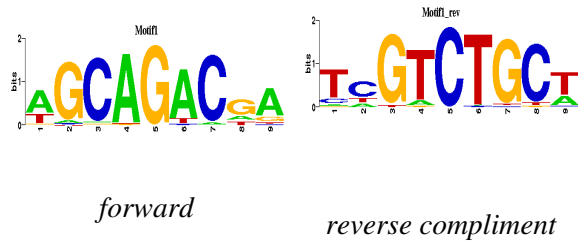
| | |
|--|---|
|  <p>Motif22</p> |  <p>Motif5 (E val: 7.8074e-11)</p> |
|  <p>Motif21</p> |  <p>Motif6 (E val: 5.8401e-02)</p> |
|  <p>Motif5</p> |  <p>Motif12 (E val: 5.7616e-08)</p> |
|  <p>Motif10</p> |  <p>Motif12 (E val: 3.1262e-05)</p> |
|  <p>Motif9</p> |  <p>Motif12 (E val: 4.1170e-07)</p> |
|  <p>Motif6</p> |  <p>Motif3 (E val: 2.7441e-02)</p> |
|  <p>Motif15</p> |  <p>Motif9 (E val: 5.1253e-03)</p> |
|  <p>Motif14</p> |  <p>Motif10 (E val: 3.1528e-02)</p> |
| | |




| | |
|--|---|
|  <p>Motif12</p> |  <p>Motif9 (E val: 1.9761e-01)</p> |
|  <p>Motif24</p> |  <p>Motif13 (E val: 1.5105e-03)</p> |
|  <p>Motif2</p> |  <p>Motif7 (E val: 7.4784e-10)</p> |
|  <p>Motif8</p> |  <p>Motif7 (E val: 3.5228e-06)</p> |
|  <p>Motif20</p> |  <p>Motif7 (E val: 4.4048e-03)</p> |
|  <p>Motif11</p> |  <p>Motif14 (E val: 3.4477e-02)</p> |
|  <p>Motif17</p> |  <p>Motif5 (E val: 3.3936e-02)</p> |
|  <p>Motif19</p> |  <p>Motif14 (E val: 8.4393e-03)</p> |
| | |



Motif Similarity Matches

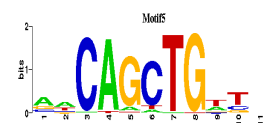
Motif1



| Name | E value | Alignment | Motif |
|---------|------------|----------------------------|---|
| Motif14 | 1.3581e-01 | TCGTCTGCT-- YAGTGTGACCR |  |
| Motif8 | 2.5636e-01 | TCGTCTGCT ANRWCY--- |  |
| Motif6 | 2.6510e-01 | TCGTCTGCT -NRACTGAN |  |

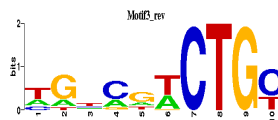
Motif5

2.7213e-01

TCGTCTGCT---
NNRNCAGCTGNN

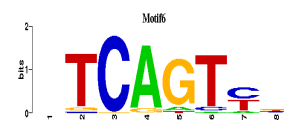
Motif9

2.7770e-01

--TCGTCTGCT
GTTSSGYTSG--**Motif3***forward**reverse compliment**Name**E value**Alignment**Motif*

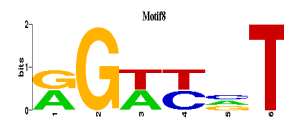
Motif6

6.2289e-02

WGNCNWCTGC--
---NRACTGAN

Motif8

1.7667e-01

WGNCNWCTGC
--ANRWCY--

Motif14

1.7928e-01

WGNCNWCTGC---
--YAGTGTGACCR

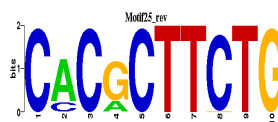
Motif4

3.0483e-01

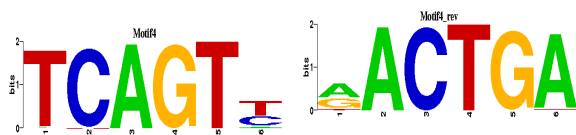
-WGNCNWCTGC-
NTATCGATANN

Motif3

4.1812e-01

GCAGWNGNCW
NTTATGRCN**Motif25***forward**reverse compliment*

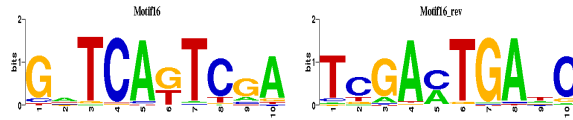
| <i>Name</i> | <i>E value</i> | <i>Alignment</i> | <i>Motif</i> |
|-------------|----------------|------------------------------------|--------------|
| Motif14 | 3.1030e-02 | CAGAAGCGTG---- ---YAGTGTGACCR | |
| Motif2 | 4.6067e-02 | -CACGCTTCTG SSRCGCC---- | |
| Motif12 | 2.2637e-01 | --CACGCTTCTG--- SSRSCGYTGCCRSMK | |
| Motif8 | 3.1844e-01 | CACGCTTCTG ---RGWYNT- | |
| Motif3 | 3.9907e-01 | CACGCTTCTG--- ---NTTTATGRCN | |

Motif4*forward**reverse complement*

| <i>Name</i> | <i>E value</i> | <i>Alignment</i> | <i>Motif</i> |
|-------------|----------------|------------------------------|--------------|
| Motif6 | 8.3818e-09 | -TCAGTY- NTCAGTYN | |
| Motif10 | 1.2708e-02 | -----RACTGA- AAAWATACYRAM | |
| Motif8 | 6.5127e-02 | --RACTGA ANRWCY-- | |
| Motif5 | 6.9027e-02 | ---TCAGTY--- NNRNCAGCTGNN | |

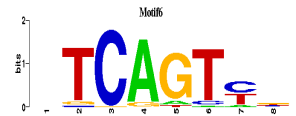
Motif14

8.1892e-02

TCAGTY-----
-YAGTGTGACCR**Motif16***forward**reverse compliment**Name**E value**Alignment**Motif*

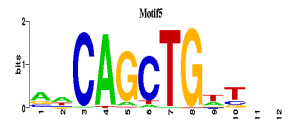
Motif6

2.4534e-04

TCGAMTGANC
-NRACTGAN-

Motif5

1.2248e-01

-GNTCAKTCGA-
NNRNCAGCTGNN

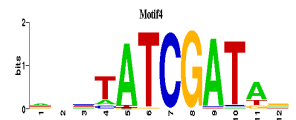
Motif8

2.6624e-01

GNTCAKTCGA
----RGWYNT

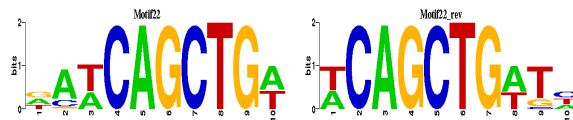
Motif4

3.1565e-01

---TCGAMTGANC
NTATCGATANN-

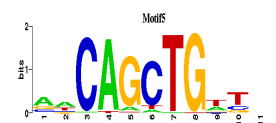
Motif10

3.5025e-01

---TCGAMTGANC
AAWATAACYRAM-**Motif22***forward**reverse compliment**Name**E value**Alignment**Motif*

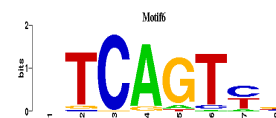
Motif5 7.8074e-11

—NATCAGCTGW—
NNRNCAGCTGNN



Motif6 1.0661e-01

WCAGCTGATN
—NRACTGAN—



Motif10 2.2121e-01

—NATCAGCTGW—
AAAWATACYRAM



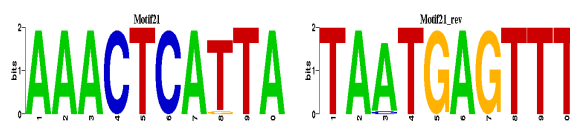
Motif9 2.2655e-01

NATCAGCTGW
GTTSSGYTSG



Motif11 2.7167e-01

---WCAGCTGATN
RNYAGNGMTGNNM

**Motif21***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif6 5.8401e-02

AAAGTCATTA
NRACTGAN--



Motif13 1.4072e-01

AAAGTCATTA--
---YYCTTTY



Motif3 2.0394e-01

--TAATGAGTTT
NTTTATGRCN--



Motif14 3.0730e-01

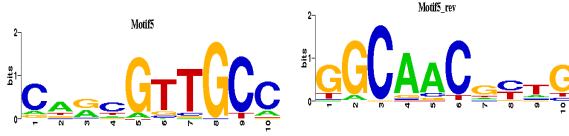
--AAAGTCATTA
YGGTCACACTR



Motif10

3.6833e-01

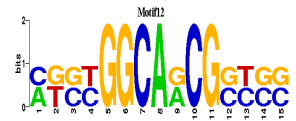
-----TAATGAGTTT
AAAWATAACYRAM---

**Motif5***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif12

5.7616e-08

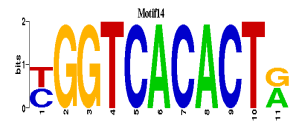
----GGCAACNYNG--
MKSYGGCARGCSYSS



Motif14

1.3055e-02

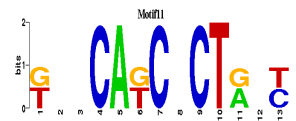
-GGCAACNYNG
YGGTCACACTR



Motif11

7.5185e-02

GGCAACNYNG---
RNYAGNGMTGNM



Motif9

1.5967e-01

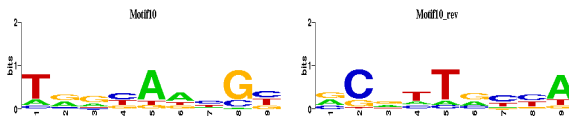
CNRNGTTGCC----
----GTTSSGYTSG



Motif2

2.3909e-01

GGCAACNYNG
--SSRCGCC-

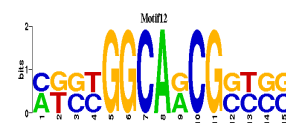
**Motif10***forward**reverse compliment**Name**E value**Alignment**Motif*

Stamp Results

07/27/15

Motif12 3.1262e-05

---TRRNANNGN---
MKS YGGC ARCSYSS



Motif9 1.2484e-01

---NCNNTNYYA
GTTSSGYTSG--



Motif8 2.3547e-01

NCNNTNYYA
-RGWYNT--



Motif14 2.9687e-01

TRRNANNGN--
YGGTCACACTR

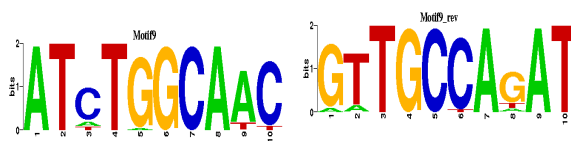


Motif10 3.6708e-01

-NCNNTNYYA--
AAAWATACYRAM

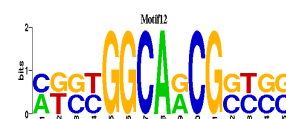


Motif9

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

Motif12 4.1170e-07

-----GTTGCCAGAT
SSRSCGYTGCCRS MK



Motif3 1.0343e-01

--ATCTGGCAAC
NTTTATGRCN--



Motif10 1.4851e-01

--ATCTGGCAAC
AAAWATACYRAM



Motif9 1.5230e-01

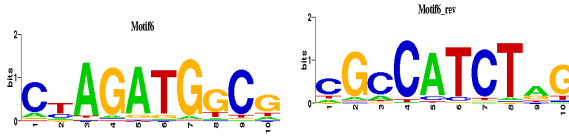
GTTGCCAGAT
GTTSSGYTSG



Motif14

3.0316e-01

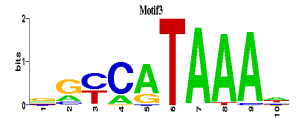
----GTTGCCAGAT
YAGTGTGACCR---

**Motif6***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif3

2.7441e-02

CYAGATGGCG
NTTTATGRCN



Motif2

4.9621e-02

CYAGATGGCG---
-----GGCGYSS



Motif8

3.0005e-01

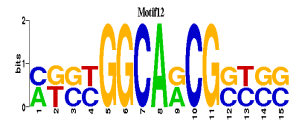
CGCCATCTRG
--ANRWCY--



Motif12

3.8615e-01

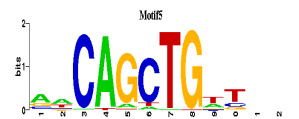
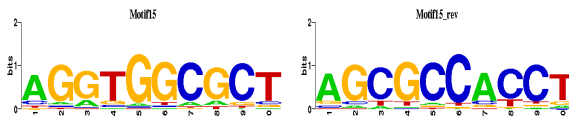
-----CGCCATCTRG
SSRSCGYTGCCRSMK--



Motif5

4.6900e-01

-CYAGATGGCG-
NNCAGCTGNYNN

**Motif15***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif9 5.1253e-03

AGGTGGCGCT--
--GTTSSGYTSG

Motif2 5.1894e-03

AGGTGGCGCT-
----GGCGYSS

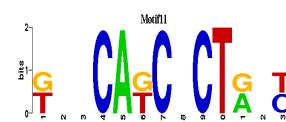
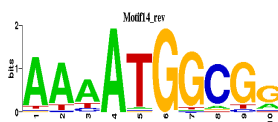
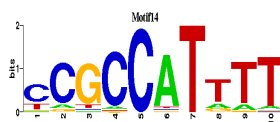
Motif14 2.0676e-02

-AGCGCCACCT
YAGTGTGACCR

Motif12 3.4515e-02

-----AGCGCCACCT
SSRSCGYTGCCRSMK

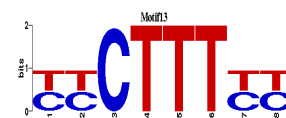
Motif11 1.9302e-01

AGGTGGCGCT----
-RNYAGNGMTGNM**Motif14***forward**reverse complement**Name**E value**Alignment**Motif*

Motif10 3.1528e-02

-AAAATGGCGG-
AAAWATACYRAM

Motif13 3.4023e-02

CCGCCATTTT-
---YYCTTTY

Motif2 4.5811e-02

AAAATGGCGG-
-----GGCGYSS

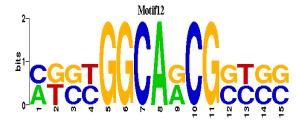
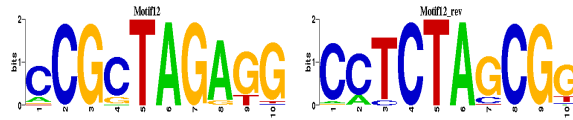
Motif3 6.1400e-02

-AAAATGGCGG
NTTATGRCN-

Motif12

2.5236e-01

CCGCCATTTT-----
SSRSCGYTGCCRSMK

**Motif12***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif9

1.9761e-01

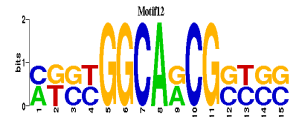
---CCGCTAGAGG
GTTSSGYTSG---



Motif12

2.7016e-01

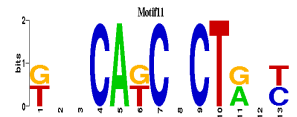
---CCTCTAGCGG--
SSRSCGYTGCCRSMK



Motif11

2.9238e-01

CCGCTAGAGG-----
--RNYAGNGMTGNNM



Motif2

4.3414e-01

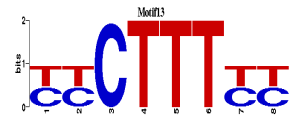
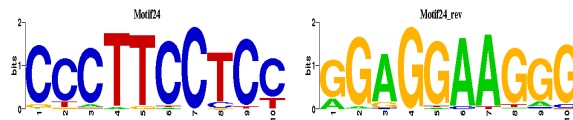
CCTCTAGCGG--
-----GGCGYSS



Motif13

4.3941e-01

CCGCTAGAGG--
---RRAAAGRR

**Motif24***forward**reverse compliment**Name**E value**Alignment**Motif*

Stamp Results

07/27/15

Motif13 1.5105e-03

CCCTTCCTCC
YYCTTTY--

Motif12 3.0189e-01

----CCCTTCCTCC-
SSRSCGYTGCCRSMK

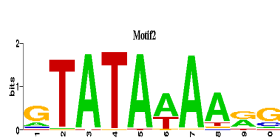
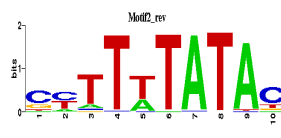
Motif9 5.1214e-01

--GGAGGAAGGG
CSARCSSAAC--

Motif8 6.1996e-01

GGAGGAAGGG
--ANRWCY--

Motif2 6.7285e-01

GGAGGAAGGG
GGCGYSS---**Motif2***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif7 7.4784e-10

--CYTTTATAC
NNSCTTTTATAS

Motif13 1.3603e-02

GTATAAAARG-
---RRAAAGRR

Motif3 2.5429e-02

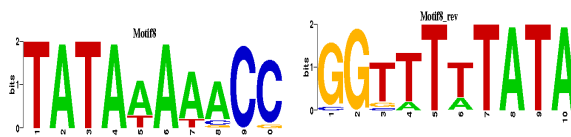
CYTTTATAC--
--NTTTATGRCN

Motif10 6.4146e-02

CYTTTATAC----
--AAAWATACYRAM

Motif8

3.9835e-01

GTATAAAARG
--ANRWCY--**Motif8***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif7

3.5228e-06

-GGTTTTTATA-
NNSCTTTTATAS

Motif10

1.4322e-03

---GGTTTTTATA
KTYRGATWTTT-

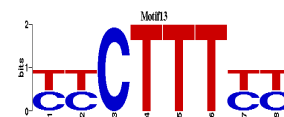
Motif3

2.0837e-02

GGTTTTTATA---
---NTTTATGRCN

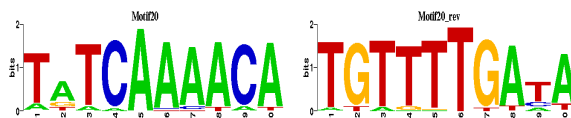
Motif13

1.0633e-01

-GGTTTTTATA
YYCTTTY---

Motif1

1.6326e-01

GGTTTTTATA
-RTNKKKK--**Motif20***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif7 4.4048e-03

–TGTTTTGATA–
NNSCTTTTATAS



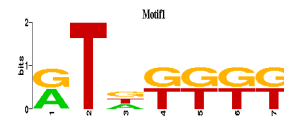
Motif4 1.3873e-02

–TATCAAAACA–
NTATCGATANNN



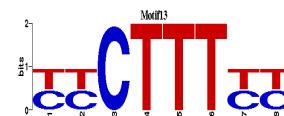
Motif1 1.0720e-01

TATCAAAACA–
----MMMMNAY



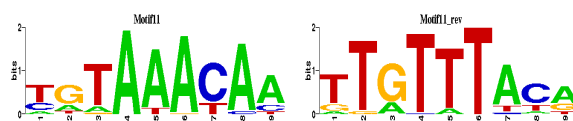
Motif13 1.6001e-01

–TGTTTTGATA
YYCTTTY--



Motif10 1.6617e-01

-----TATCAAAACA
AAAWATACYRAM---

**Motif11***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif14 3.4477e-02

---TGTAACAA
YAGTGTGACCR-



Motif7 3.6161e-02

–TGTAACAA--
STATAAAAGSNN



Motif3 8.6534e-02

TTGTTTACA---
--NTTTATGRCN



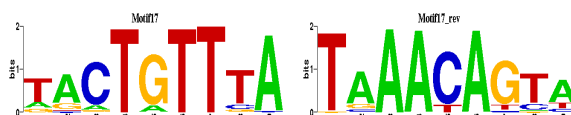
Motif13 1.1998e-01

TGTAACAA
-RRAAGRR



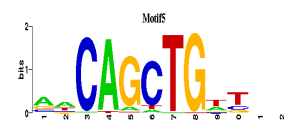
Motif1 1.5998e-01

TGTAAACAA--
 ---MMMMNAY

**Motif17***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif5 3.3936e-02

-----TACTGTTTA
 NNRNCAGCTGNN--



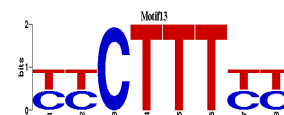
Motif6 7.2768e-02

-TACTGTTTA
 NRACTGAN--



Motif13 1.0424e-01

TACTGTTTA
 YYCTTTY-



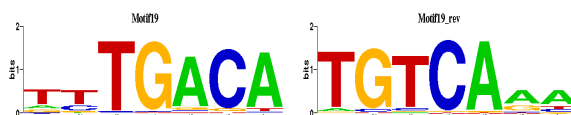
Motif10 1.4774e-01

-----TACTGTTTA
 AAAWATACYRAM--



Motif3 1.4906e-01

TACTGTTTA-----
 ---NTTTATGRCN

**Motif19***forward**reverse compliment**Name**E value**Alignment**Motif*

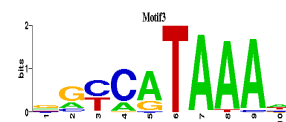
Motif14 8.4393e-03

---TTTGACA-
YAGTGTGACCR

Motif7 5.0438e-02

----TTTGACA-
NNSCTTTTATAS

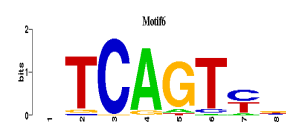
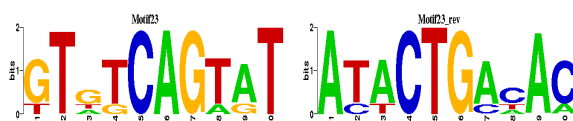
Motif3 9.7305e-02

---TTTGACA
NTTTATGRCN

Motif12 1.0587e-01

-----TTTGACA---
SSRSCGYTGCCRSMK

Motif6 2.6292e-01

--TTTGACA
NRACTGAN-**Motif23***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif10 2.1732e-05

----ATACTGACAC
AAAWATACYRAM--

Motif6 3.4608e-03

ATACTGACAC
NRACTGAN--

Motif14 8.2452e-02

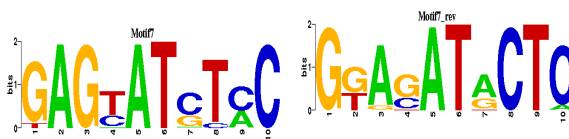
--GTGTCAGTAT
YAGTGTGACCR-

Motif12 2.2417e-01

---ATACTGACAC--
SSRSCGYTGCCRSMK

Motif4

2.6864e-01

GTGTCAGTAT--
NTATCGATANN**Motif7***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif14

1.7446e-02

GAGTATCTMC--
YAGTGTGACCR

Motif10

1.0739e-01

GKAGATACTC--
AAAWATACYRAM

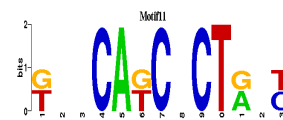
Motif8

2.1668e-01

GAGTATCTMC
--ANRWCY--

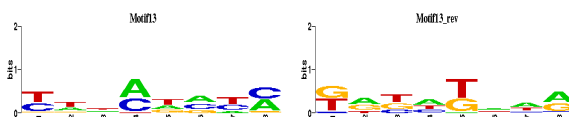
Motif11

3.4655e-01

---GKAGATACTC
RNYAGNGMTGNNM

Motif4

4.1708e-01

--GKAGATACTC
NTATCGATANN**Motif13***forward**reverse compliment**Name**E value**Alignment**Motif*

Motif7 1.6099e-02

---YNNMNNYM--
NNSCTTTTATAS



Motif4 1.5247e-01

---KRNNKNNR--
NNNTATCGATAN



Motif10 1.6847e-01

YNNMNNYM-----
-AAAWATACYRAM



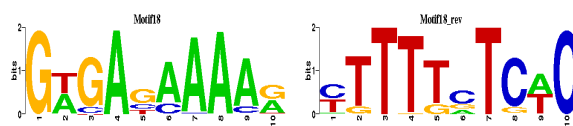
Motif3 2.3617e-01

-KRNNKNNR--
NGYCATAAAN



Motif8 5.2285e-01

KRNNKNNR--
---ANRWCY

**Motif18***forward**reverse complement**Name**E value**Alignment**Motif*

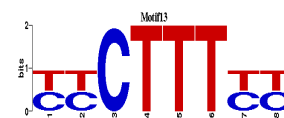
Motif7 4.3731e-03

---YTTTTSTCWC
NNSCTTTTATAS-



Motif13 3.2094e-02

GWGASAAAAR--
---RRAAGRR



Motif3 1.1780e-01

YTTTTSTCWC--
-NTTATGRCN



Motif14 1.9816e-01

--GWGASAAAAR
YAGTGTGACCR-



Motif10

3.2941e-01

GWGASAAAAR-----
-----AAWATACYRAM



Sequence logo generation powered by [weblogo](#)
STAMP is written by Shaun Mahony