



For further information on how to interpret these results or to get a copy of the MEME software please access <http://meme.nbcrc.net>.

If you use TOMTOM in your research, please cite the following paper:

Shobhit Gupta, JA Stamatoyannopolous, Timothy Bailey and William Stafford Noble, "Quantifying similarity between motifs", *Genome Biology*, 8(2):R24, 2007. [\[full text\]](#)

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QUERY MOTIFS

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| Database | ID | Alt. ID |
|----------------------------|---|------------------------------------|
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_0.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_118.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_119.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_150.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_214.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_22.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_222.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_24.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_245.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_246.feather | pattern/Type1/motif_visualization, |

| Database | ID | Alt. ID |
|----------------------------|---|------------------------------------|
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_300.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_302.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_37.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_55.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_69.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_78.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_9.feather | pattern/Type1/motif_visualization, |
| combined.motif of interest | pattern/Type1/motif_visualization/pwm_Motif_96.feather | pattern/Type1/motif_visualization, |

TARGET DATABASES

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| Database | Used | Matched |
|--------------|------|---------|
| Homo sapiens | 733 | 35 |

MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_24.FEATHER (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_24.FEATHER)

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| Summary | Alignment |
|-----------------|-----------------------------------|
| Name | M2277_1.02 (FLI1) |
| Database | Homo sapiens |
| p-value | 2.47e-07 |
| E-value | 1.81e-04 |
| q-value | 3.56e-04 |
| Overlap | 8 |

Offset 2
Orientation Normal

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pattern/Type1/motif_visualization/pwm_Motif_24.featl

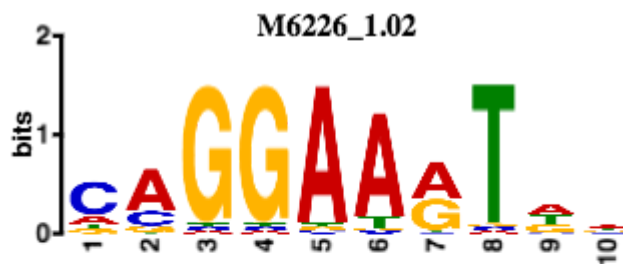
Summary

Alignment

Name [M6226_1.02 \(FEV\)](#)
Database Homo sapiens
p-value 1.22e-06
E-value 8.95e-04
q-value 8.81e-04

Overlap 8
Offset 1
Orientation Normal

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attern/Type1/motif_visualization/pwm_Motif_24.fe

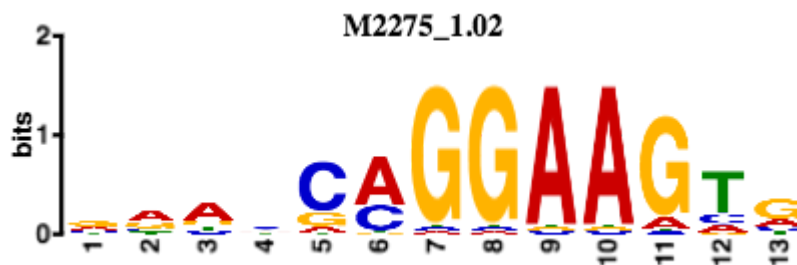
Summary

Alignment

Name [M2275_1.02 \(ELF1\)](#)
Database Homo sapiens
p-value 4.17e-06
E-value 3.06e-03
q-value 2.01e-03

Overlap 8
Offset 5
Orientation Normal

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pattern/Type1/motif_visualization/pwm_Motif_24.feather

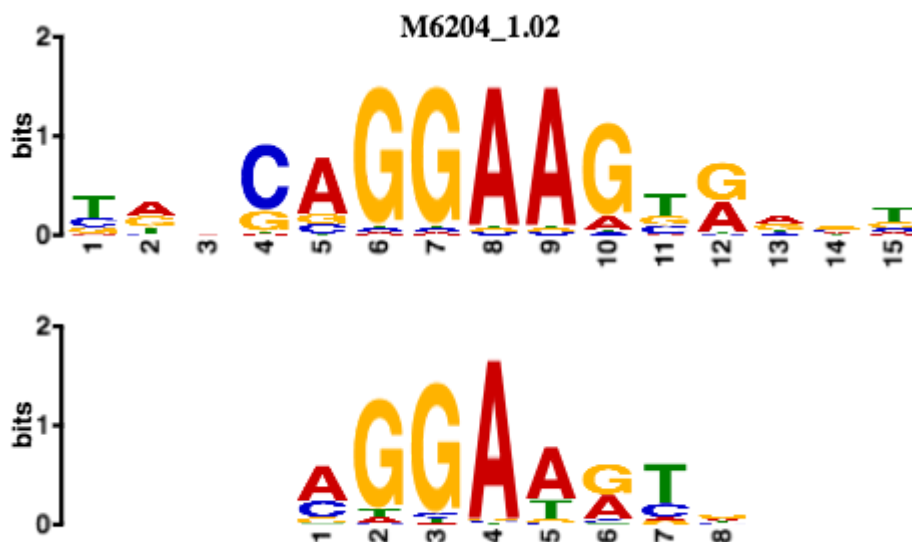
Summary

Name [M6204_1.02 \(ELF2\)](#)
Database Homo sapiens
p-value 8.88e-06
E-value 6.51e-03
q-value 3.20e-03

Overlap 8
Offset 4
Orientation Normal

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Alignment



pattern/Type1/motif_visualization/pwm_Motif_24.feather

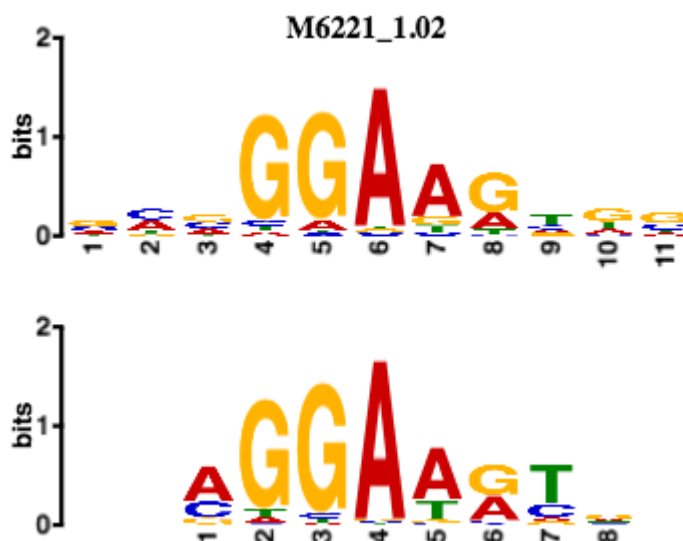
Summary

Name [M6221_1.02 \(ETS2\)](#)
Database Homo sapiens
p-value 2.81e-05
E-value 2.06e-02
q-value 7.61e-03

Overlap 8
Offset 2
Orientation Normal

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Alignment



pattern/Type1/motif_visualization/pwm_Motif_24.featl

Summary

Name [M6206_1.02 \(ELF5\)](#)
Database Homo sapiens
p-value 3.16e-05
E-value 2.32e-02
q-value 7.61e-03

Overlap 8
Offset 3
Orientation Normal

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Alignment



pattern/Type1/motif_visualization/pwm_Motif_24.featl

Summary

Alignment

Name [M6222_1.02 \(ETV4\)](#)
Database Homo sapiens
p-value 4.08e-05
E-value 2.99e-02
q-value 8.40e-03

Overlap 7
Offset 1
Orientation Normal

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ern/Type1/motif_visualization/pwm_Motif_24.

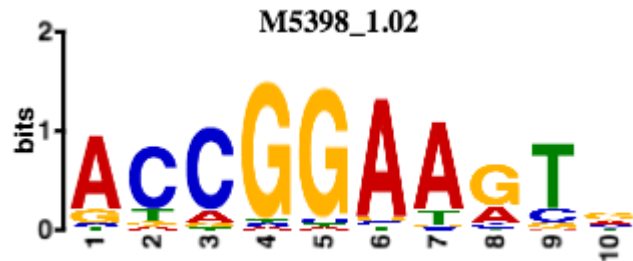
Summary

Alignment

Name [M5398_1.02 \(ERF\)](#)
Database Homo sapiens
p-value 5.43e-05
E-value 3.98e-02
q-value 9.80e-03

Overlap 8
Offset 2
Orientation Normal

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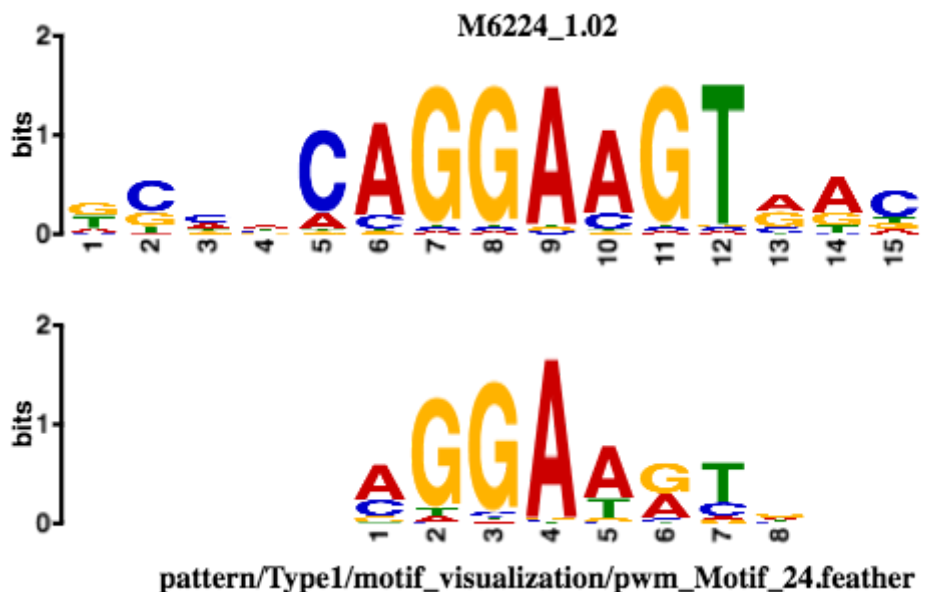


attern/Type1/motif_visualization/pwm_Motif_24.fe

Summary

Alignment

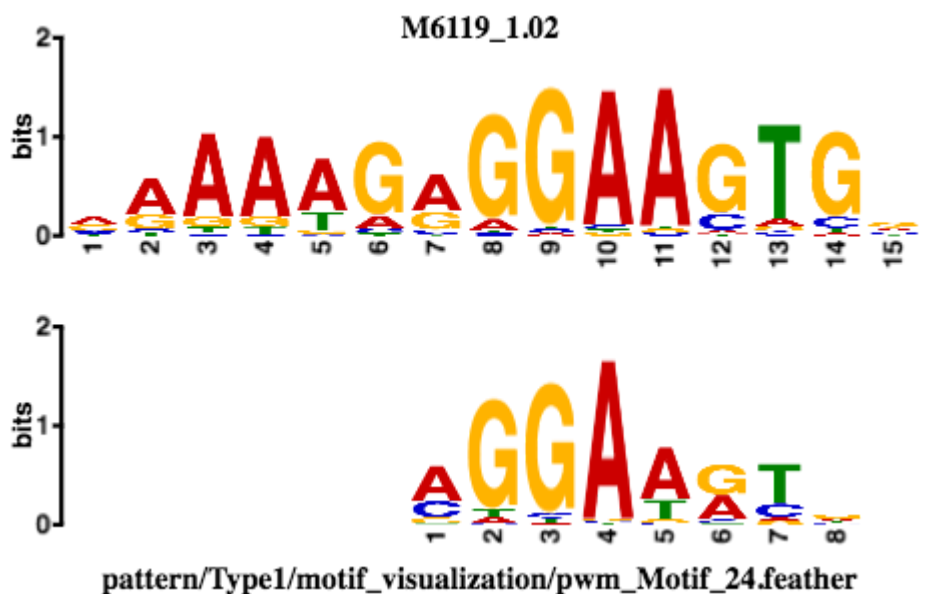
Name [M6224_1.02 \(ETV7\)](#)
Database Homo sapiens
p-value 7.02e-05
E-value 5.15e-02
q-value 1.13e-02
Overlap 8
Offset 5
Orientation Normal
[Show logo download options](#)



Summary

Alignment

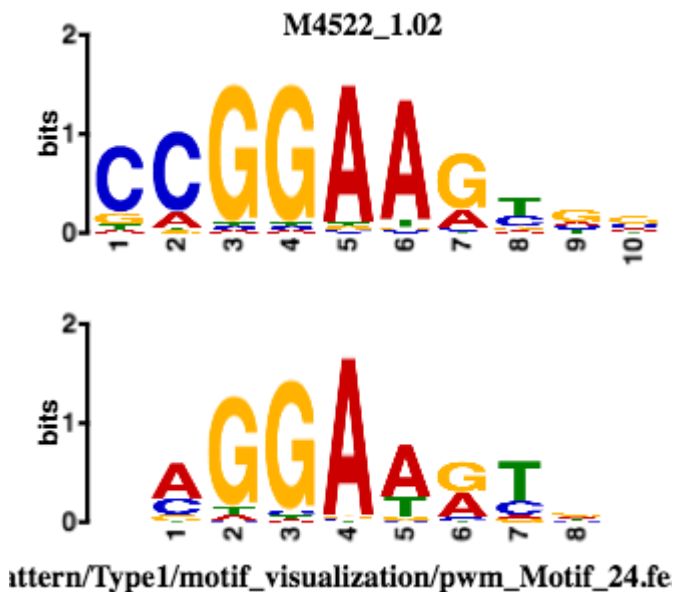
Name [M6119_1.02 \(SPI1\)](#)
Database Homo sapiens
p-value 7.92e-05
E-value 5.81e-02
q-value 1.14e-02
Overlap 8
Offset 6
Orientation Normal
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Summary

Alignment

Name [M4522_1.02 \(ELK4\)](#)
Database Homo sapiens
p-value 9.02e-05
E-value 6.61e-02
q-value 1.18e-02
Overlap 8
Offset 1
Orientation Normal
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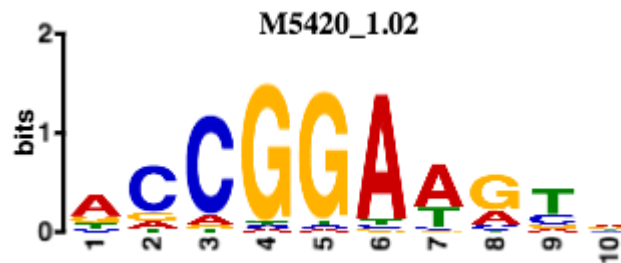
Summary

| | |
|-----------------|-----------------------------------|
| Name | M5420_1.02 (ETV1) |
| Database | Homo sapiens |
| p-value | 1.31e-04 |
| E-value | 9.61e-02 |
| q-value | 1.34e-02 |

| | |
|--------------------|--------|
| Overlap | 8 |
| Offset | 2 |
| Orientation | Normal |

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Alignment



attnr/Type1/motif_visualization/pwm_Motif_24.fe

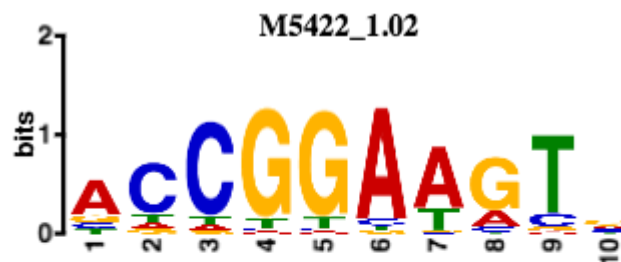
Summary

| | |
|-----------------|-----------------------------------|
| Name | M5422_1.02 (ETV3) |
| Database | Homo sapiens |
| p-value | 1.31e-04 |
| E-value | 9.61e-02 |
| q-value | 1.34e-02 |

| | |
|--------------------|--------|
| Overlap | 8 |
| Offset | 2 |
| Orientation | Normal |

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Alignment



attnr/Type1/motif_visualization/pwm_Motif_24.fe

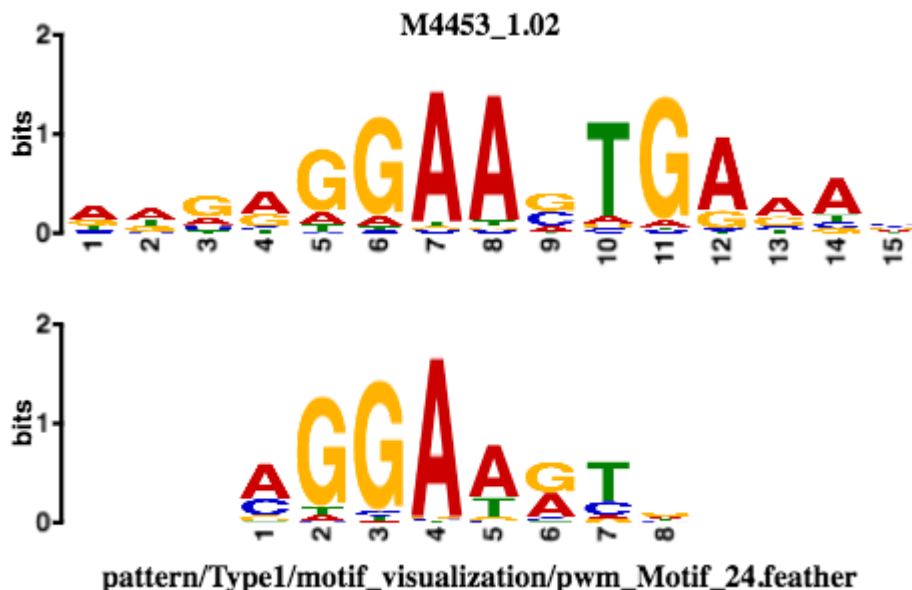
Summary

| | |
|-----------------|-------------------------------------|
| Name | M4453_1.02 (BCL11A) |
| Database | Homo sapiens |
| p-value | 1.32e-04 |
| E-value | 9.67e-02 |
| q-value | 1.34e-02 |

| | |
|--------------------|--------|
| Overlap | 8 |
| Offset | 3 |
| Orientation | Normal |

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Alignment



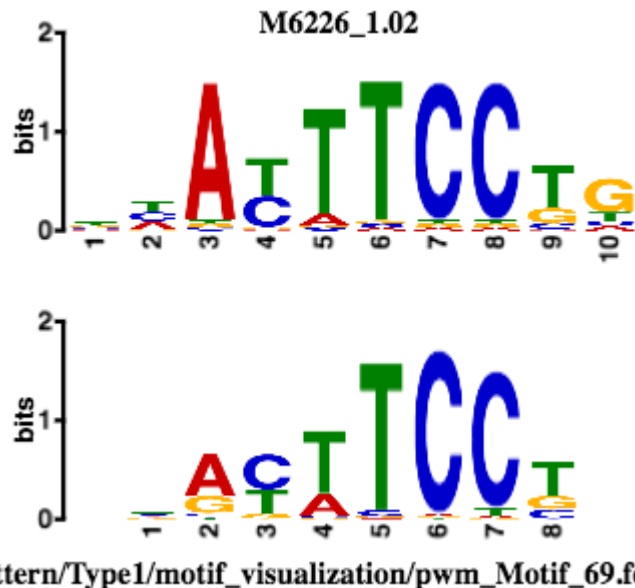
**MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_69.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_69.FEATHER)**

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Summary

Alignment

| | |
|--------------------|--|
| Name | M6226_1.02 (FEV) |
| Database | Homo sapiens |
| p-value | 9.56e-08 |
| E-value | 7.01e-05 |
| q-value | 1.38e-04 |
| Overlap | 8 |
| Offset | 1 |
| Orientation | Reverse Complement |
| | Show logo download options |



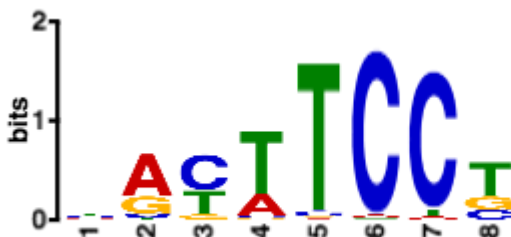
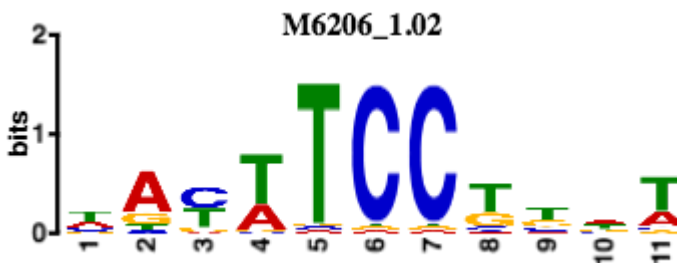
Summary

Alignment

| | |
|-----------------|-----------------------------------|
| Name | M6206_1.02 (ELF5) |
| Database | Homo sapiens |
| p-value | 9.93e-07 |
| E-value | 7.28e-04 |
| q-value | 7.11e-04 |
| Overlap | 8 |
| Offset | 0 |

Orientation Reverse Complement

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pattern/Type1/motif_visualization/pwm_Motif_69.featl

Summary

Alignment

Name [M2277_1.02 \(FLI1\)](#)

Database Homo sapiens

p-value 1.48e-06

E-value 1.08e-03

q-value 7.11e-04

Overlap 8

Offset 1

Orientation Reverse Complement

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pattern/Type1/motif_visualization/pwm_Motif_69.featl

Summary

Alignment

Name [M6204_1.02 \(ELF2\)](#)

Database Homo sapiens

p-value 1.99e-06

E-value 1.46e-03

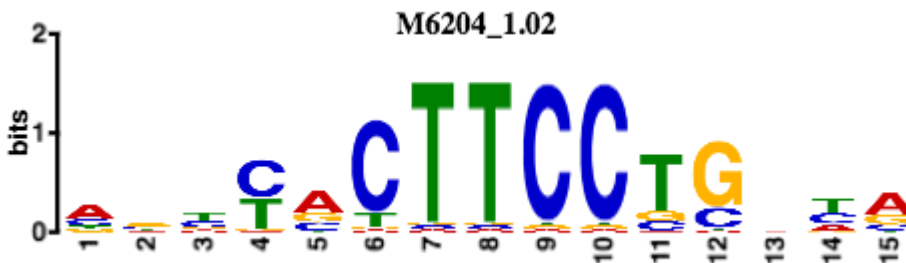
q-value 7.16e-04

Overlap 8

Offset 3

Orientation Reverse Complement

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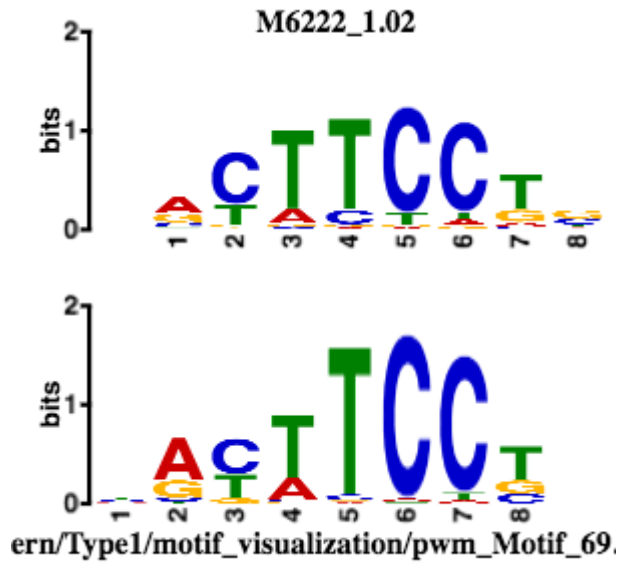
pattern/Type1/motif_visualization/pwm_Motif_69.feather

Summary

Alignment

| | |
|--------------------|-----------------------------------|
| Name | M6222_1.02 (ETV4) |
| Database | Homo sapiens |
| p-value | 2.03e-05 |
| E-value | 1.49e-02 |
| q-value | 5.48e-03 |
| Overlap | 7 |
| Offset | -1 |
| Orientation | Reverse Complement |

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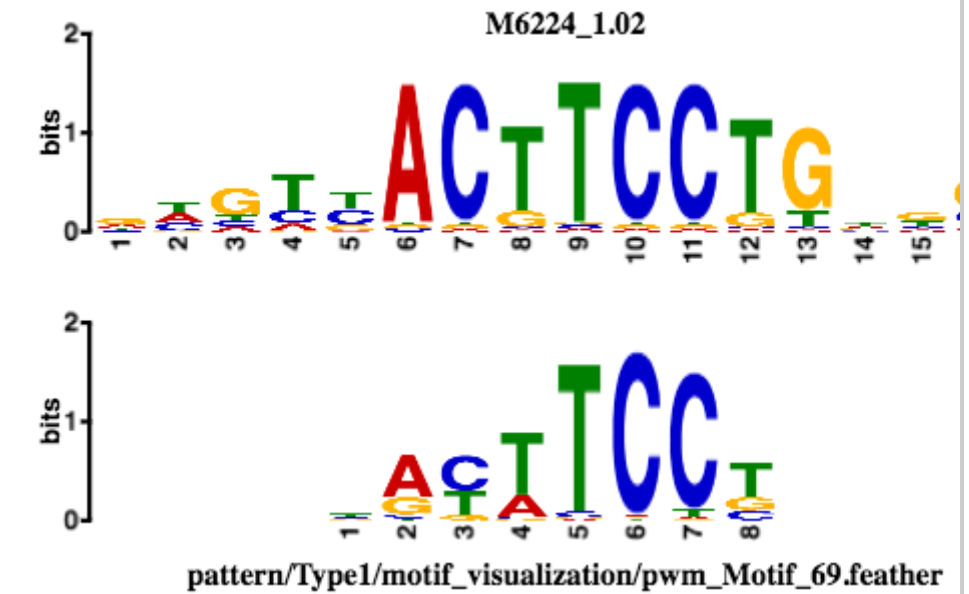


Summary

Alignment

| | |
|--------------------|-----------------------------------|
| Name | M6224_1.02 (ETV7) |
| Database | Homo sapiens |
| p-value | 2.28e-05 |
| E-value | 1.67e-02 |
| q-value | 5.48e-03 |
| Overlap | 8 |
| Offset | 4 |
| Orientation | Reverse Complement |

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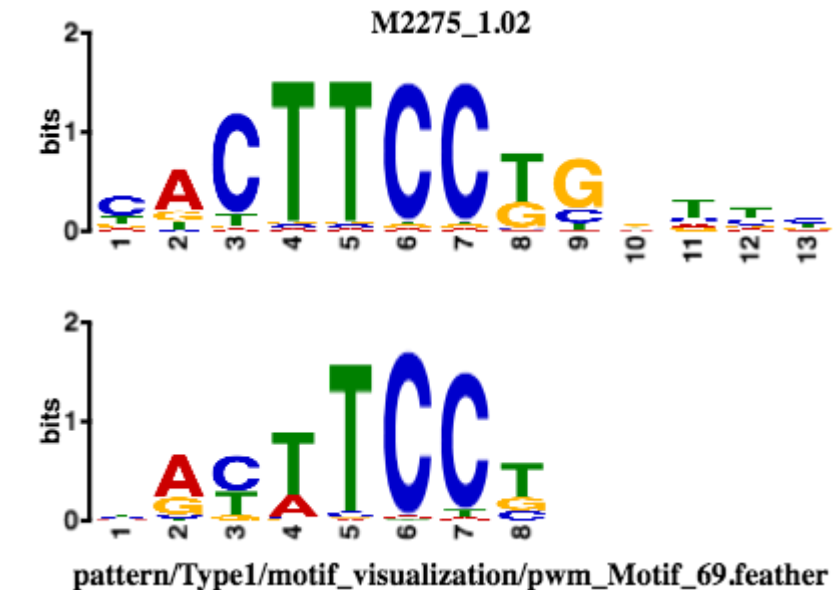


Summary

Alignment

| | |
|--------------------|-----------------------------------|
| Name | M2275_1.02 (ELF1) |
| Database | Homo sapiens |
| p-value | 2.81e-05 |
| E-value | 2.06e-02 |
| q-value | 5.78e-03 |
| Overlap | 8 |
| Offset | 0 |
| Orientation | Reverse Complement |

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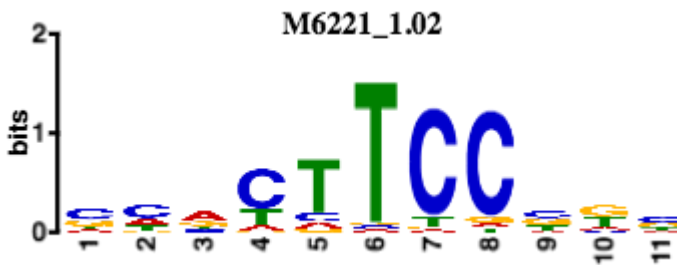
Summary

Alignment

Name [M6221_1.02 \(ETS2\)](#)
Database Homo sapiens
p-value 4.27e-05
E-value 3.13e-02
q-value 7.70e-03

Overlap 8
Offset 1
Orientation Reverse Complement

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pattern/Type1/motif_visualization/pwm_Motif_69.featl

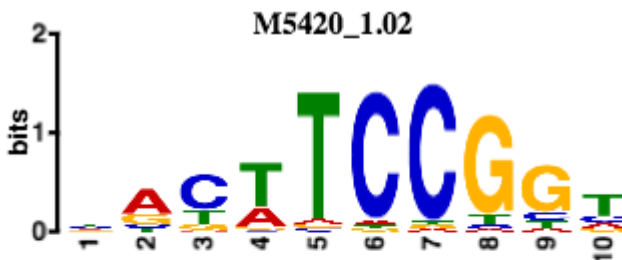
Summary

Alignment

Name [M5420_1.02 \(ETV1\)](#)
Database Homo sapiens
p-value 6.98e-05
E-value 5.12e-02
q-value 1.12e-02

Overlap 8
Offset 0
Orientation Reverse Complement

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attern/Type1/motif_visualization/pwm_Motif_69.fe

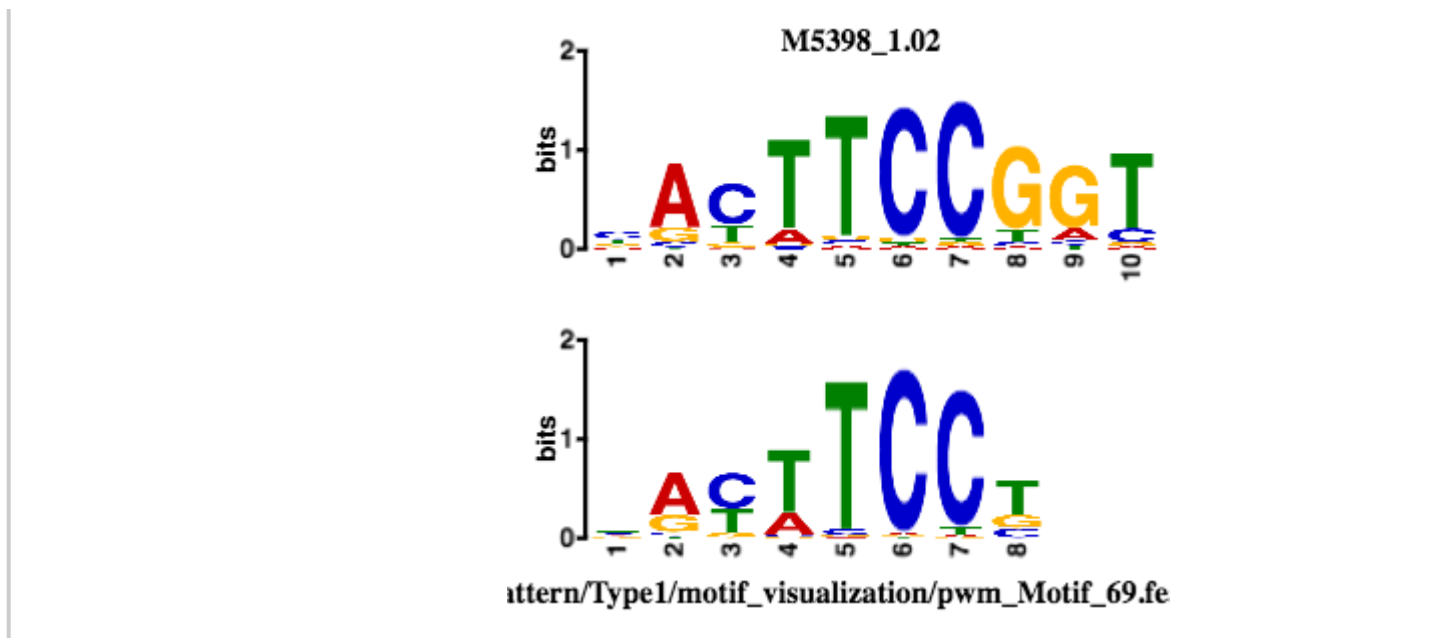
Summary

Alignment

Name [M5398_1.02 \(ERF\)](#)
Database Homo sapiens
p-value 1.30e-04
E-value 9.49e-02
q-value 1.87e-02

Overlap 8
Offset 0
Orientation Reverse Complement

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**MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_119.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_119.FEATHER)**

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| Summary | Alignment |
|--|---|
| <p>Name M6368_1.02 (NFIL3)</p> <p>Database Homo sapiens</p> <p>p-value 3.46e-06</p> <p>E-value 2.53e-03</p> <p>q-value 5.07e-03</p> <p>Overlap 8</p> <p>Offset 1</p> <p>Orientation Normal</p> <p>Show logo download options</p> | <p style="margin-bottom: 0;">M6368_1.02</p> <p style="margin-top: 0;">bits</p> <p style="margin-top: 0;">1 2 3 4 5 6 7 8 9 10 11 12 13 14</p> <p style="margin-top: 0;">pattern/Type1/motif_visualization/pwm_Motif_119.feather</p> |

**MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_246.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_246.FEATHER)**

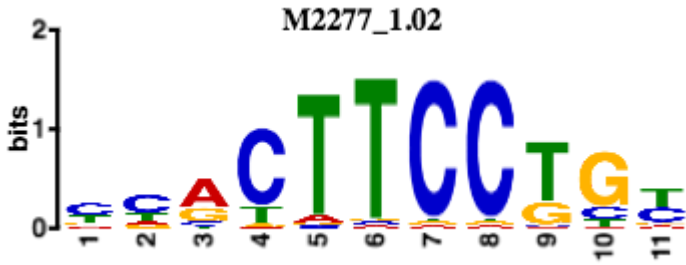
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| Summary | Alignment |
|--|--|
| <p>Name M2277_1.02 (FLI1)</p> <p>Database Homo sapiens</p> <p>p-value 4.36e-05</p> <p>E-value 3.19e-02</p> | <p style="margin-top: 0;">bits</p> <p style="margin-top: 0;">1 2 3 4 5 6 7 8</p> |



q-value 6.34e-02
Overlap 8
Offset 1
Orientation Reverse Complement

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pattern/Type1/motif_visualization/pwm_Motif_246.feaf

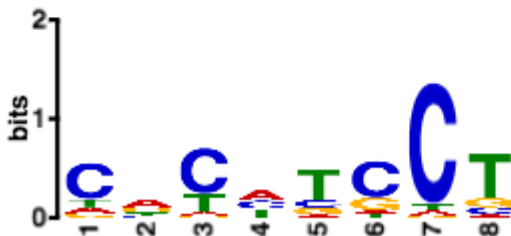
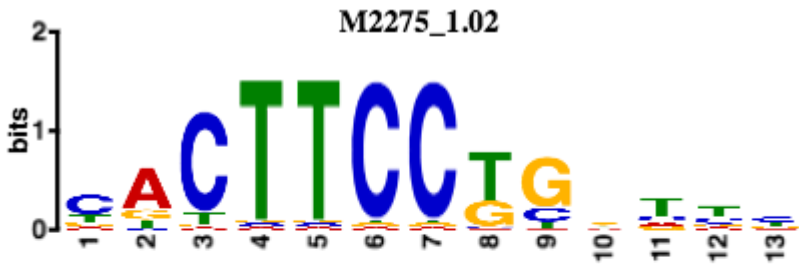
Summary

Name [M2275_1.02 \(ELF1\)](#)
Database Homo sapiens
p-value 1.05e-04
E-value 7.67e-02
q-value 7.62e-02

Overlap 8
Offset 0
Orientation Reverse Complement

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Alignment



pattern/Type1/motif_visualization/pwm_Motif_246.feather

MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_9.FEATHER (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_9.FEATHER)

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Summary

Alignment

Name [M6115_1.02 \(TP73\)](#)
Database Homo sapiens
p-value 6.00e-05
E-value 4.40e-02
q-value 8.79e-02

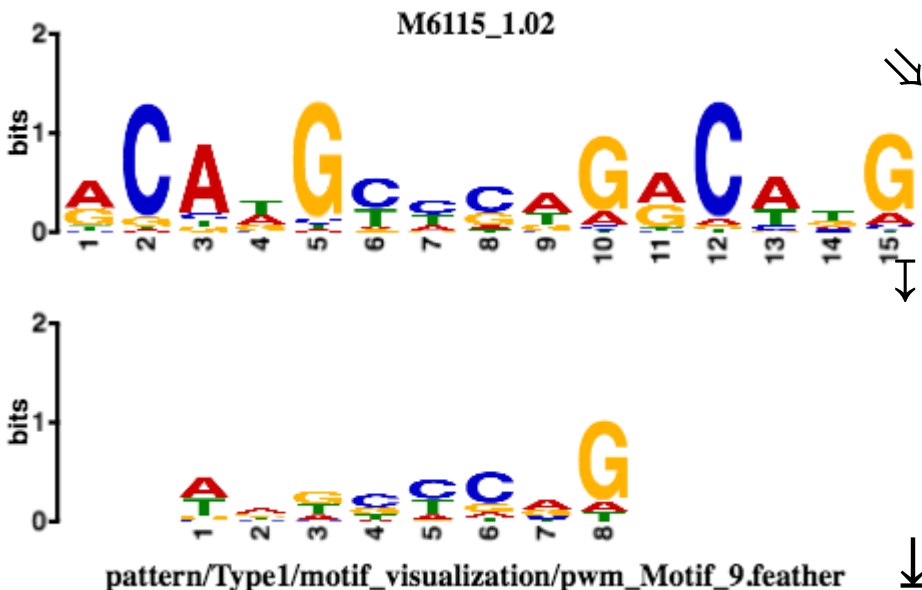
Overlap 8
Offset 2



Orientation

Reverse
Complement

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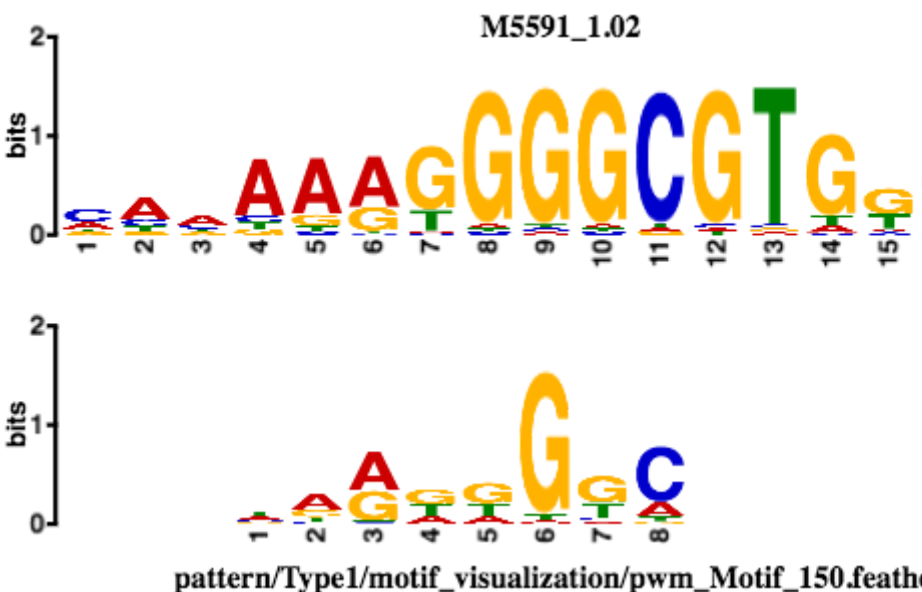
**MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_150.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_150.FEATHER)**

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Summary

Alignment

| | |
|--------------------|---|
| Name | M5591_1.02 (KLF13) |
| Database | Homo sapiens |
| p-value | 1.36e-04 |
| E-value | 9.97e-02 |
| q-value | 1.27e-01 |
| Overlap | 8 |
| Offset | 3 |
| Orientation | Normal |
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**MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_55.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_55.FEATHER)**

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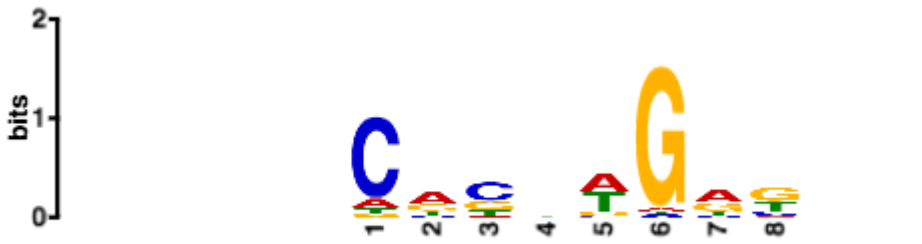
Summary

Alignment

| | |
|-----------------|--|
| Name | M4427_1.02 (CTCF) |
| Database | Homo sapiens |
| p-value | 2.52e-05 |
| E-value | 1.85e-02 |

q-value 3.69e-02
Overlap 8
Offset 5
Orientation Normal

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pattern/Type1/motif_visualization/pwm_Motif_55

Summary

Alignment

Name [M6469_1.02 \(SNAI2\)](#)
Database Homo sapiens
p-value 9.24e-05
E-value 6.77e-02
q-value 6.77e-02

Overlap 7
Offset 0
Orientation Reverse Complement

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n/Type1/motif_visualization/pwm_Motif_55

MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_300.FEATHER (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_300.FEATHER)

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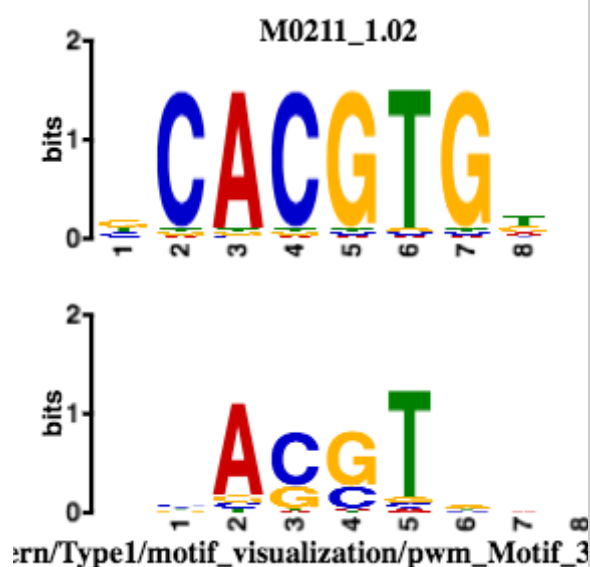
Summary

Alignment

Name [M0211_1.02 \(\(MLXIP\) \(Mus musculus\) \(DBD 0.82\)\)](#)
Database Homo sapiens
p-value 2.02e-05
E-value 1.48e-02
q-value 1.58e-02

Overlap 7
Offset 1
Orientation Normal

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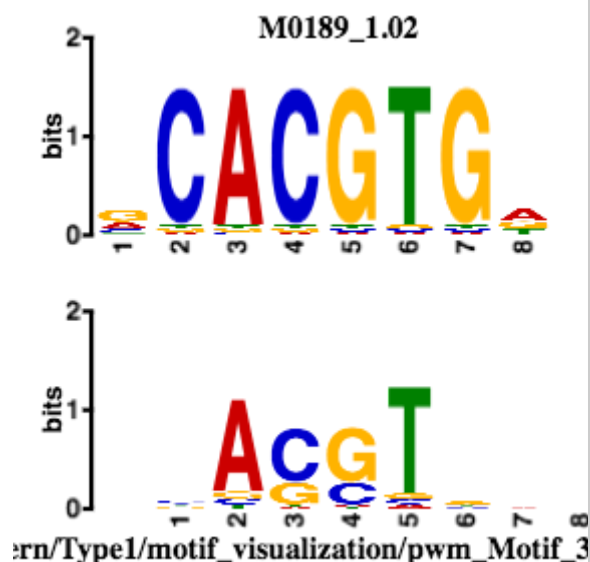


Summary

| | |
|--------------------|---|
| Name | M0189_1.02 ((ID2) (Mus musculus) (DBD 0.98)) |
| Database | Homo sapiens |
| p-value | 3.19e-05 |
| E-value | 2.34e-02 |
| q-value | 1.58e-02 |
| Overlap | 7 |
| Offset | 1 |
| Orientation | Normal |

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Alignment

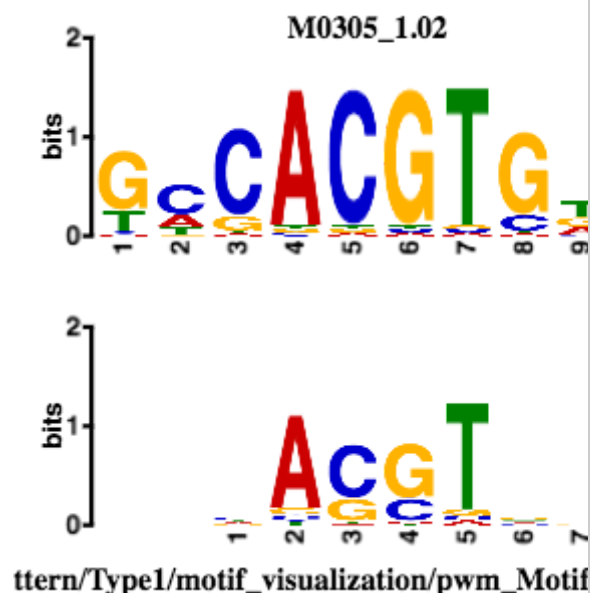


Summary

| | |
|--------------------|---|
| Name | M0305_1.02 ((CREB3L2) (Mus musculus) (DBD 1.00)) |
| Database | Homo sapiens |
| p-value | 3.33e-05 |
| E-value | 2.44e-02 |
| q-value | 1.58e-02 |
| Overlap | 7 |
| Offset | 2 |
| Orientation | Normal |

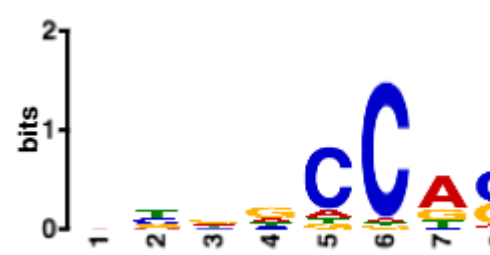

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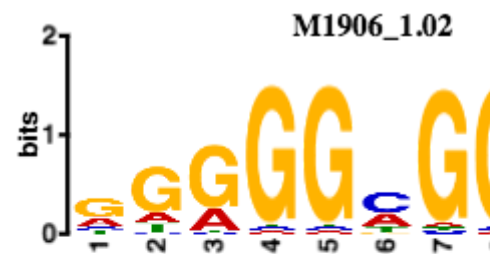
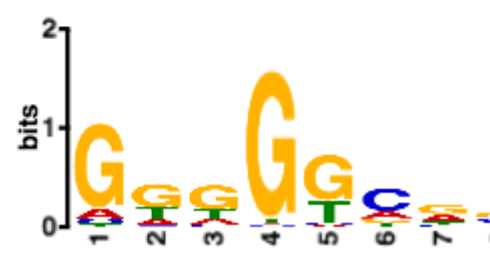
Alignment





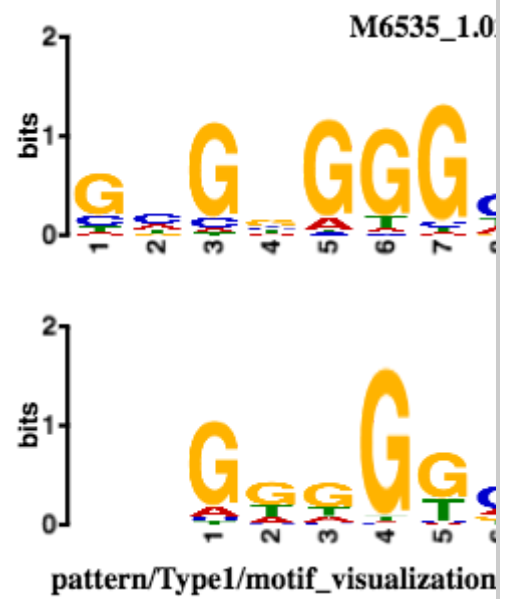
MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_78.FEATHER
(PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_78.FEATHER)

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| Summary | | Alignment |
|--|-----------------------------------|---|
| Name | M4427_1.02 (CTCF) |  |
| Database | Homo sapiens | |
| p-value | 1.13e-05 |  |
| E-value | 8.25e-03 | |
| q-value | 4.16e-03 | |
| Overlap | 8 | |
| Offset | 10 | |
| Orientation | Normal | |
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| Summary | | Alignment |
|--|----------------------------------|---|
| Name | M1906_1.02 (SP1) |  |
| Database | Homo sapiens | |
| p-value | 1.38e-05 |  |
| E-value | 1.01e-02 | |
| q-value | 4.16e-03 | |
| Overlap | 8 | |
| Offset | 0 | |
| Orientation | Normal | |
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| Summary | | Alignment |
|--|----------------------------------|---|
| Name | M6535_1.02 (WT1) |  |
| Database | Homo sapiens | |
| p-value | 1.62e-05 |  |
| E-value | 1.19e-02 | |
| q-value | 4.16e-03 | |
| Overlap | 8 | |
| Offset | 2 | |
| Orientation | Normal | |
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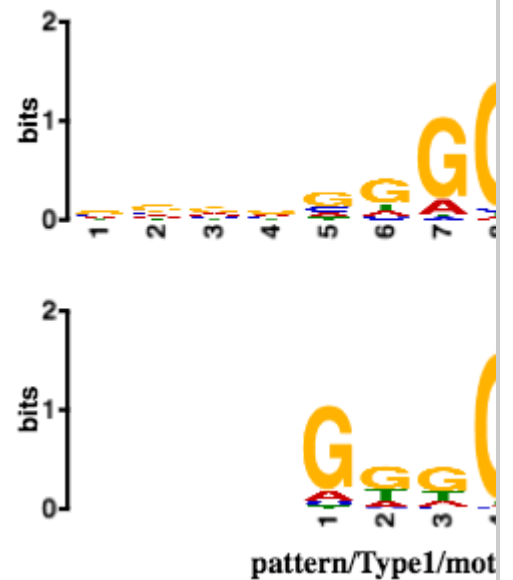


Summary

| | |
|--------------------|----------------------------------|
| Name | M6482_1.02 (SP3) |
| Database | Homo sapiens |
| p-value | 1.73e-05 |
| E-value | 1.27e-02 |
| q-value | 4.16e-03 |
| Overlap | 8 |
| Offset | 4 |
| Orientation | Normal |

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Alignment

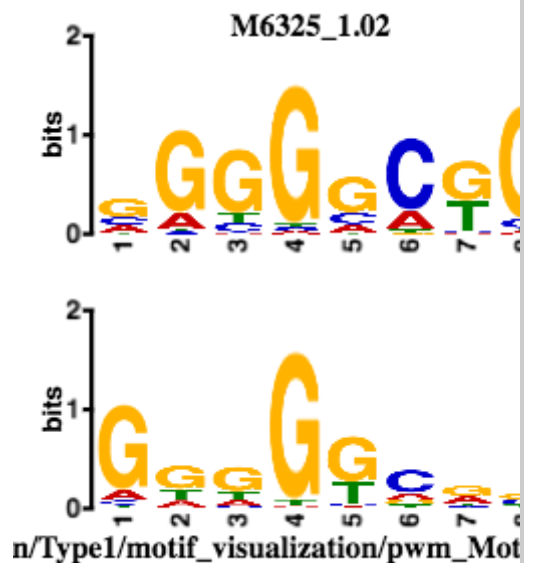


Summary

| | |
|--------------------|-----------------------------------|
| Name | M6325_1.02 (KLF6) |
| Database | Homo sapiens |
| p-value | 1.76e-05 |
| E-value | 1.29e-02 |
| q-value | 4.16e-03 |
| Overlap | 8 |
| Offset | 0 |
| Orientation | Normal |

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Alignment



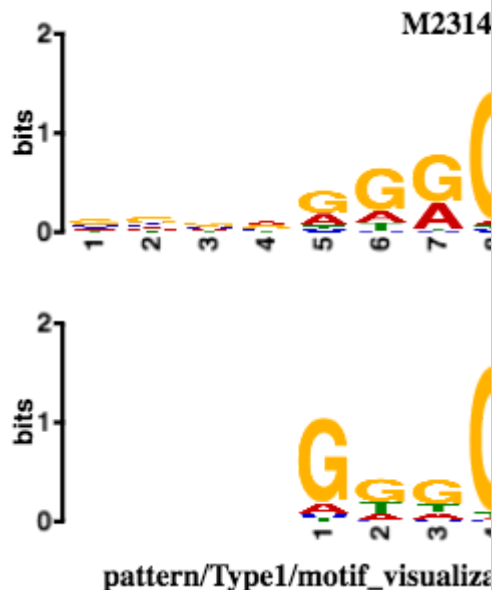
Summary

Alignment

Name [M2314_1.02 \(SP2\)](#)
Database Homo sapiens
p-value 2.16e-05
E-value 1.58e-02
q-value 4.16e-03

Overlap 8
Offset 4
Orientation Normal

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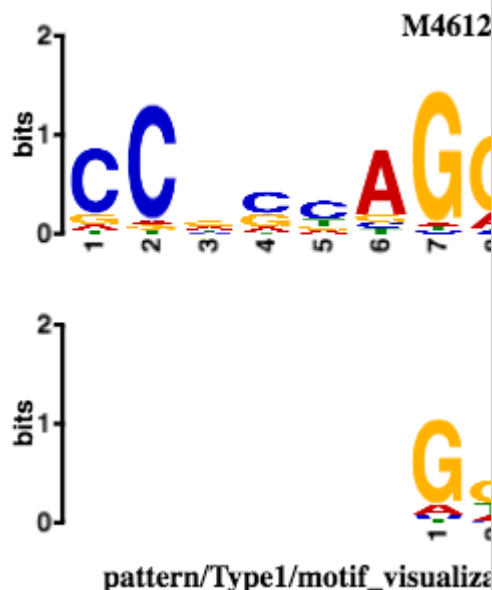
Summary

Alignment

Name [M4612_1.02 \(CTCF\)](#)
Database Homo sapiens
p-value 2.16e-05
E-value 1.58e-02
q-value 4.16e-03

Overlap 8
Offset 6
Orientation Normal

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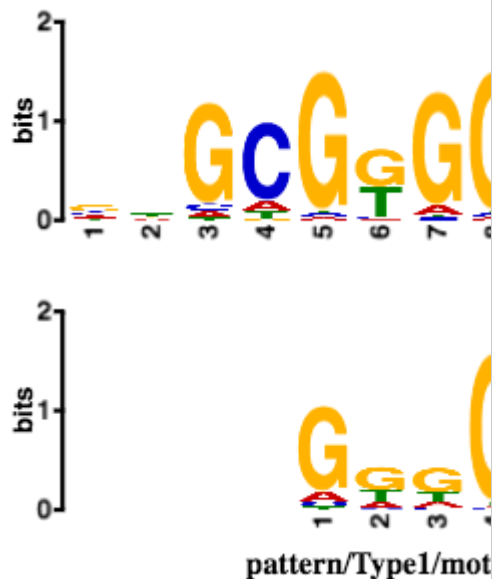
Summary

Alignment

Name [M4459_1.02 \(EGR1\)](#)
Database Homo sapiens
p-value 2.34e-05
E-value 1.72e-02
q-value 4.16e-03

Overlap 8
Offset 4
Orientation Normal

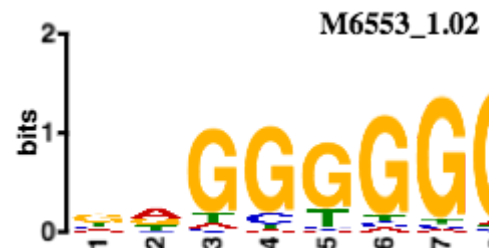
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Summary

| | |
|--------------------|-------------------------------------|
| Name | M6553_1.02 (ZNF219) |
| Database | Homo sapiens |
| p-value | 5.77e-05 |
| E-value | 4.23e-02 |
| q-value | 9.11e-03 |
| Overlap | 8 |
| Offset | 3 |
| Orientation | Normal |

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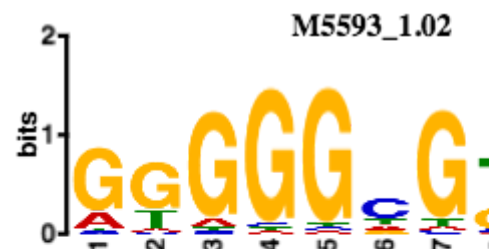
Alignment

pattern/Type1/motif_visualization/p

Summary

| | |
|--------------------|------------------------------------|
| Name | M5593_1.02 (KLF16) |
| Database | Homo sapiens |
| p-value | 8.22e-05 |
| E-value | 6.03e-02 |
| q-value | 1.14e-02 |
| Overlap | 8 |
| Offset | 0 |
| Orientation | Normal |

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Alignment

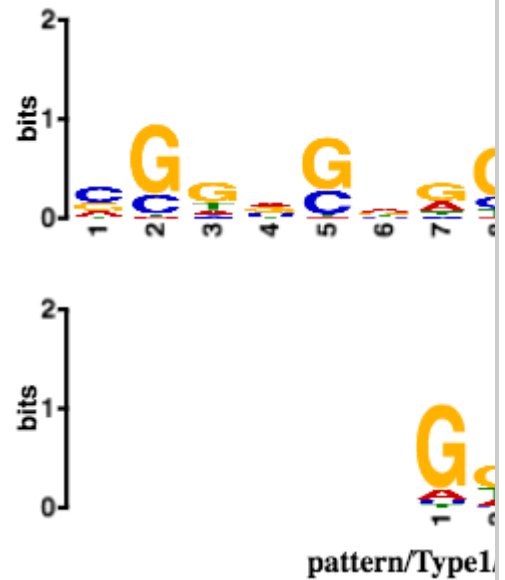
pattern/Type1/motif_visualization/pwr

Summary

| | |
|--------------------|-------------------------------------|
| Name | M6539_1.02 (ZBTB7B) |
| Database | Homo sapiens |
| p-value | 8.92e-05 |
| E-value | 6.54e-02 |
| q-value | 1.14e-02 |
| Overlap | 8 |
| Offset | 6 |
| Orientation | Normal |

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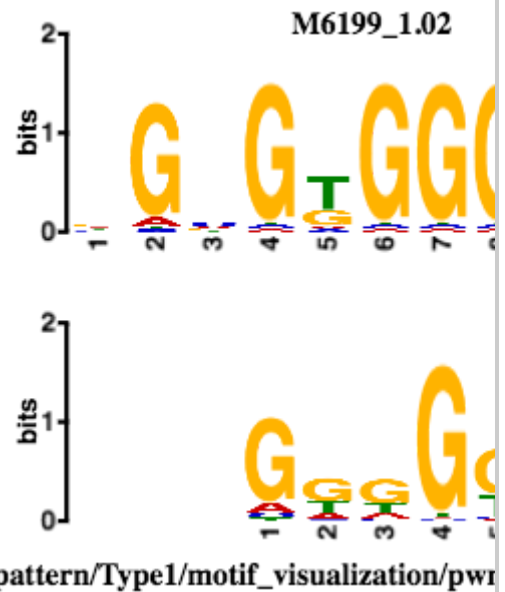
Alignment



Summary

| | |
|--------------------|--|
| Name | M6199_1.02 (EGR2) |
| Database | Homo sapiens |
| p-value | 9.60e-05 |
| E-value | 7.04e-02 |
| q-value | 1.14e-02 |
| Overlap | 8 |
| Offset | 3 |
| Orientation | Normal |
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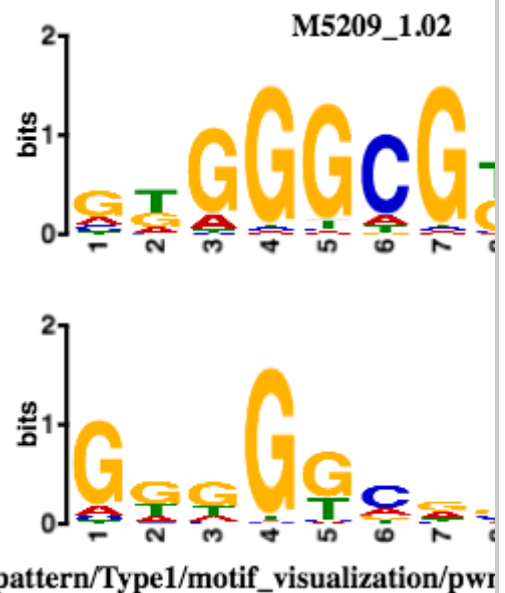
Alignment



Summary

| | |
|--------------------|---|
| Name | M5209_1.02 ((SP5) (Drosophila melanogaster) (DBD 0.93)) |
| Database | Homo sapiens |
| p-value | 1.12e-04 |
| E-value | 8.20e-02 |
| q-value | 1.22e-02 |
| Overlap | 8 |
| Offset | 0 |
| Orientation | Normal |
| | Show logo download options |

Alignment



MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_214.FEATHER
 (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_214.FEATHER)

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| Summary | | Alignment | | |
|--|--|---|--|---|
| Name | M5512_1.02 (HIC2) | | | ↑ |
| Database | Homo sapiens | | | ↑ |
| p-value | 1.21e-04 | | | ↘ |
| E-value | 8.90e-02 | | | ↓ |
| q-value | 1.78e-01 | | | ↓ |
| Overlap | 8 | | | ↓ |
| Offset | 1 | ↓ | | |
| Orientation | Reverse Complement | ↓ | | |
| Show logo download options | | :rn/Type1/motif_visualization/pwm_Motif_214 | | ↓ |

MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_22.FEATHER
 (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_22.FEATHER)

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| Summary | | Alignment | | |
|--|---|--|--|---|
| Name | M0305_1.02 ((CREB3L2) (Mus musculus) (DBD 1.00)) | | | ↑ |
| Database | Homo sapiens | | | ↑ |
| p-value | 1.08e-04 | | | ↘ |
| E-value | 7.93e-02 | | | ↓ |
| q-value | 1.06e-01 | | | ↓ |
| Overlap | 8 | | | ↓ |
| Offset | 0 | ↓ | | |
| Orientation | Normal | ↓ | | |
| Show logo download options | | ern/Type1/motif_visualization/pwm_Motif_ | | ↓ |

SETTINGS

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| Background | | | | | |
|------------|-------|---|---|-----|---------|
| Name | Bg. | | | Bg. | Name |
| Adenine | 0.250 | A | ~ | T | Thymine |
| Cytosine | 0.250 | C | ~ | G | Guanine |

Other Settings

| | |
|-------------------------|--|
| Strand Handling | Motifs may be reverse complemented before comparison to find a better match. |
| Distance Measure | Pearson correlation coefficient |
| Match Threshold | Matches must have a E-value of 0.1 or smaller. |

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TOMTOM version

4.11.4 (Release date: Fri Apr 07 18:02:37 2017 -0700)

Reference

Shobhit Gupta, JA Stamatoyannopolous, Timothy Bailey and William Stafford Noble, "Quantifying similarity between motifs", *Genome Biology*, 8(2):R24, 2007.

Command line

```
tomtom -no-ssc -oc . -verbosity 1 -min-overlap 5 -dist pearson -evaluate -thresh 0.1 combined.motif_of_interest.meme db/CIS-
```

Result calculation took 8.623 seconds