Tomtom
Motif Comparison Tool

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

QUERY MOTIFS | TARGET DATABASES | MATCHES | SETTINGS | PROGRAM INFORMATION

QUERY MOTIFS

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Database	ID	Alt
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_125.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_133.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_143.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_154.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_168.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_214.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_22.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_222.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_278.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_6.feather	pattern/Type1/motif_visuali

Database	ID	Alt
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_9.feather	pattern/Type1/motif_visuali
newseq.Noonan.motif of interest	pattern/Type1/motif_visualization/pwm_Motif_99.feather	pattern/Type1/motif_visuali

Target Databases

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Database	Used	Matched
Homo sapiens	733	5

Matches to pattern/Type1/motif_visualization/pwm_Motif_278.feather (pattern/Type1/motif_visualization/pwm_Motif_278.feather)

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Summary

Name	M4427_1.02 (CTCF)
Database	Homo sapiens
***p*-value**	1.57e-06
***E*-value**	1.15e-03
***q*-value**	2.28e-03
Overlap	8
Offset	4
Orientation	Reverse Complement

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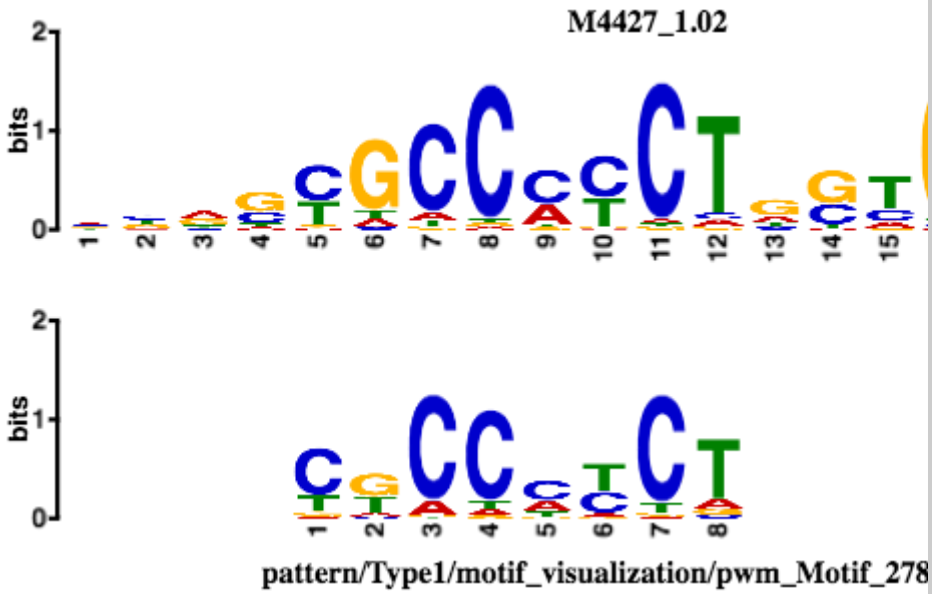
Alignment



Summary

Name	M4612_1.02 (CTCFL)
Database	Homo sapiens
***p*-value**	2.56e-05
***E*-value**	1.88e-02
***q*-value**	1.86e-02
Overlap	8
Offset	2
Orientation	Reverse Complement

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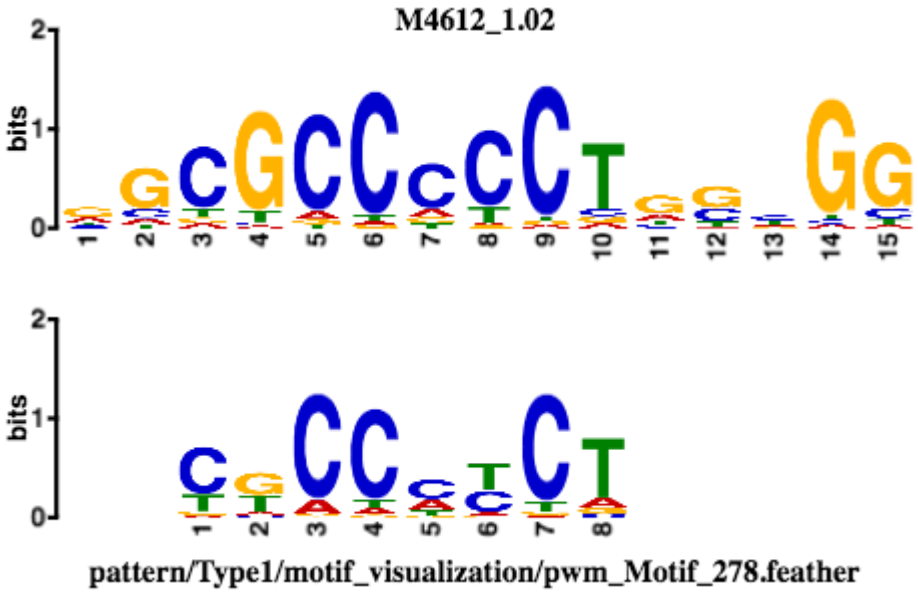
Alignment



Summary

Name	M6306_1.02 (INSM1)
Database	Homo sapiens
***p*-value**	1.83e-04
***E*-value**	1.34e-01
***q*-value**	8.85e-02
Overlap	8
Offset	0
Orientation	Reverse Complement

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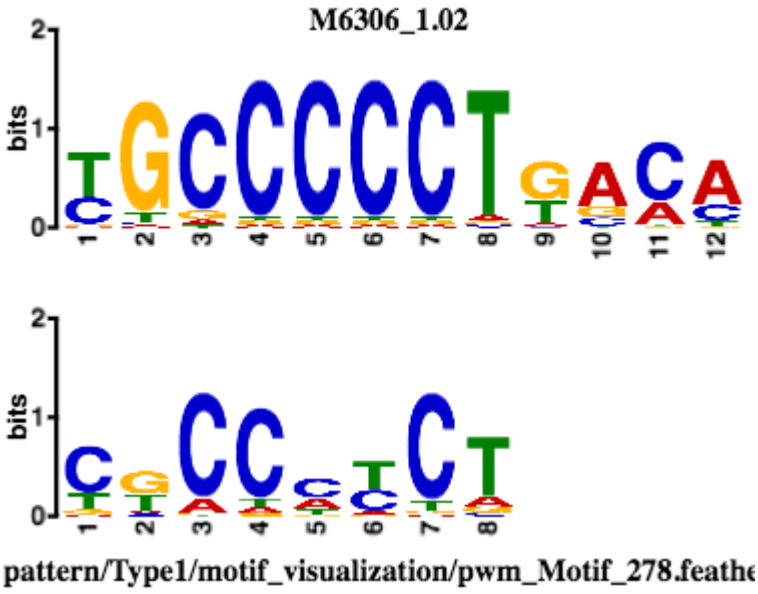
Alignment



MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_6.FEATHER (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_6.FEATHER)

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Summary

Name	M6200_1.02 (EGR3)
Database	Homo sapiens
***p*-value**	3.02e-05
***E*-value**	2.21e-02
***q*-value**	4.42e-02
Overlap	8
Offset	2

Alignment

Orientation	Normal

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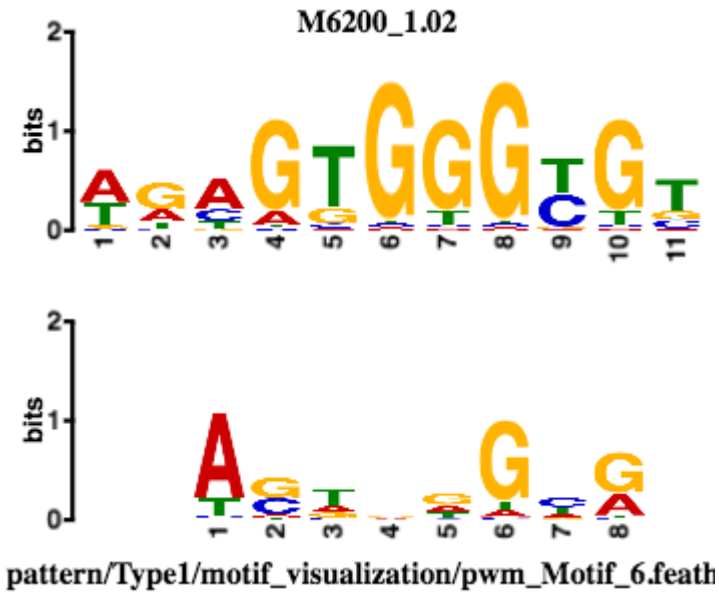

MATCHES TO PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_9.FEATHER (PATTERN/TYPE1/MOTIF_VISUALIZATION/PWM_MOTIF_9.FEATHER)

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Summary

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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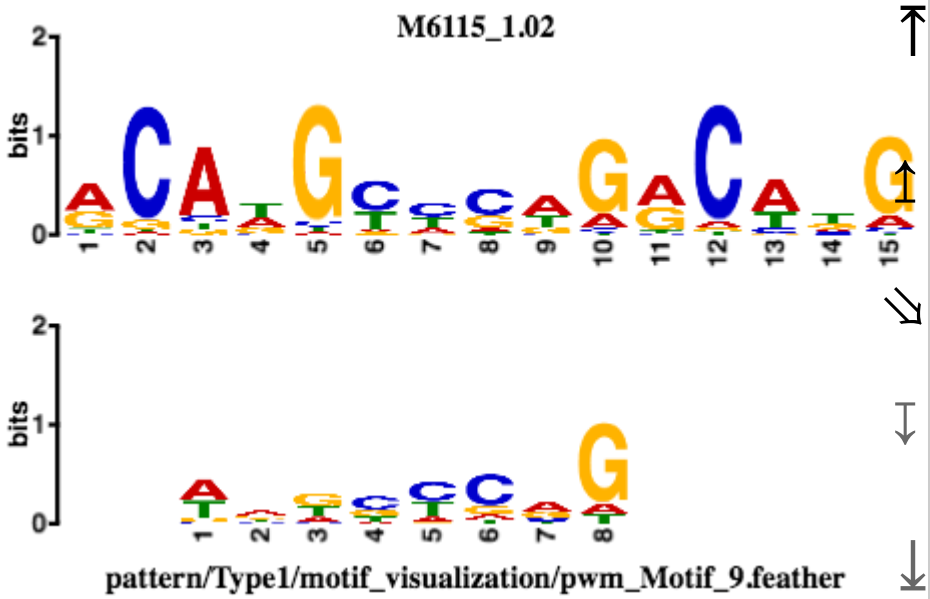
Alignment



SETTINGS

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Background

Name	Bg.				Bg.	Name
Adenine	0.250	A	~	T	0.250	Thymine
Cytosine	0.250	C	~	G	0.250	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 q-value of 0.1 or smaller.

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TOMTOM version
4.11.4 (Release date: Thu May 18 17:37:13 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 -thresh 0.1 newseq.Noonan.motif_of_interest.meme db/CIS-
```

Result calculation took 3.502 seconds