

In [12]:

```
## TF-MoDISco result visualization
# Single-task model trained on CTCF ChIP-seq
# SHAP scores/tf-modisco computed only for the CTCF task (all peaks)
# expected motif: CCACCAGGGGG (approximately)
viz_motif(tfm_results_path_ctcf)
```

Metacluster: metacluster\_0 (1/2)

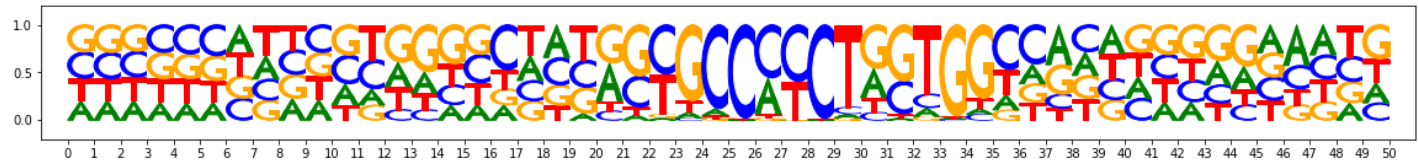
=====

Pattern: pattern\_0 (1/2)

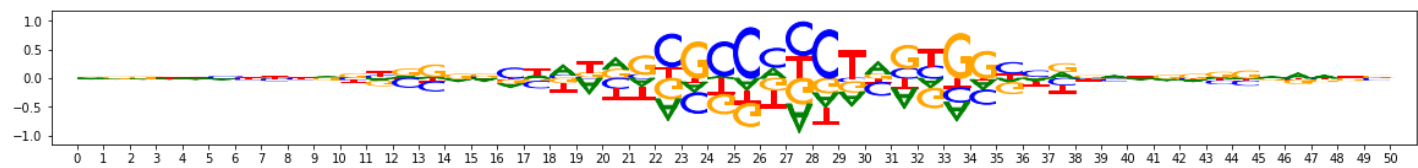
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16943 seqlets

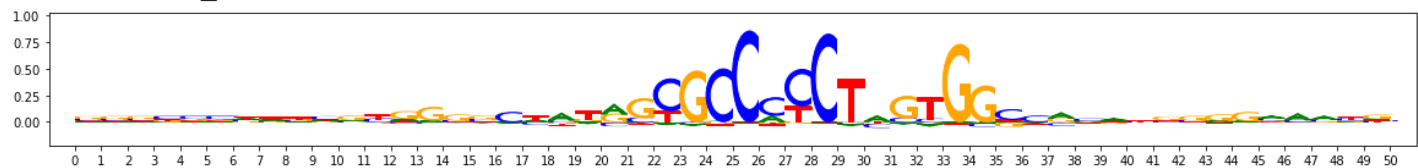
Sequence



Hypothetical contributions



Contribution\_scores

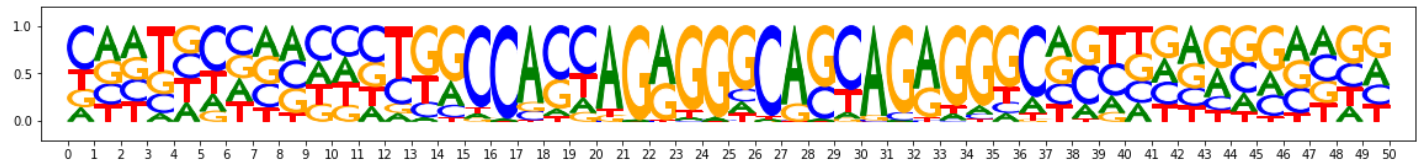


Pattern: pattern\_1 (2/2)

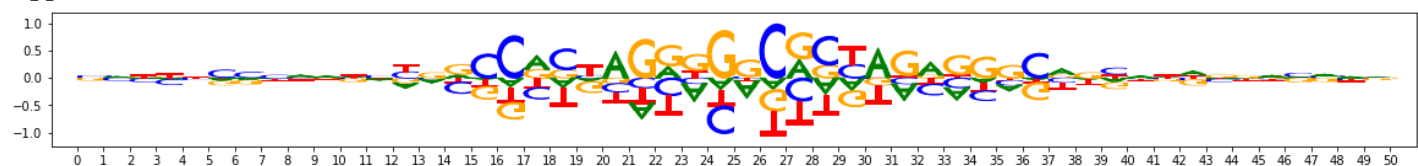
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66 seqlets

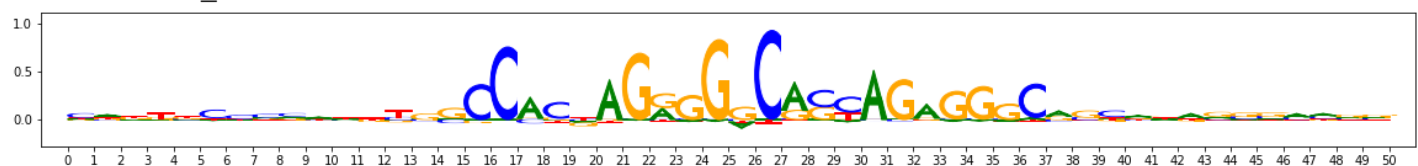
Sequence



Hypothetical contributions



Contribution\_scores



Metacluster: metacluster\_1 (2/2)

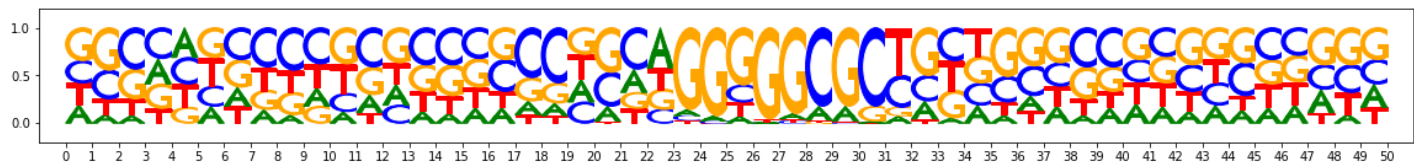
=====

Pattern: pattern\_0 (1/2)

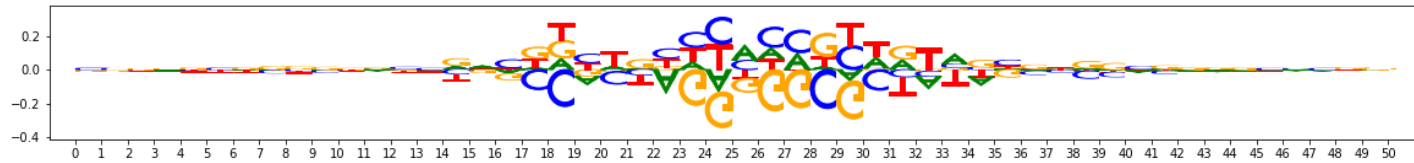
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90 seqlets

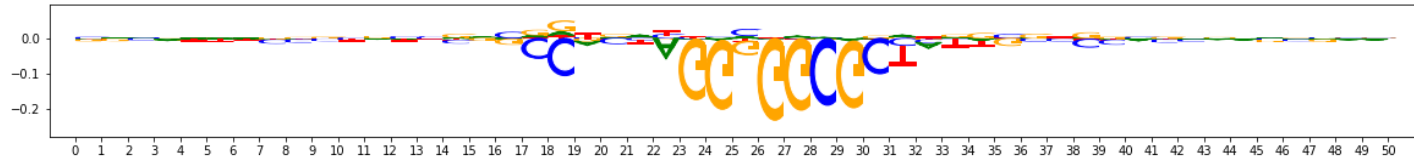
Sequence



Hypothetical contributions



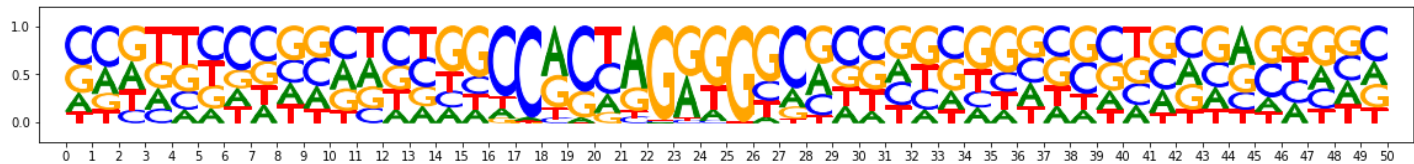
Contribution\_scores



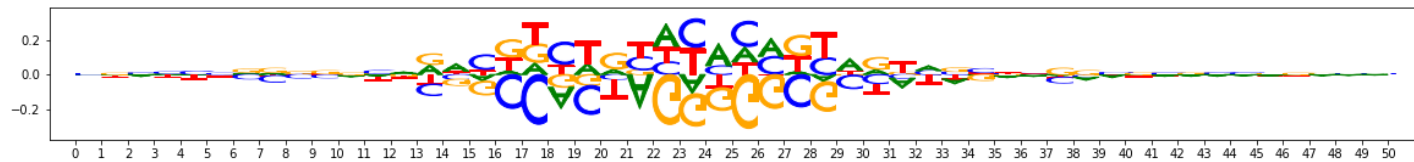
Pattern: pattern\_1 (2/2)

86 seqlets

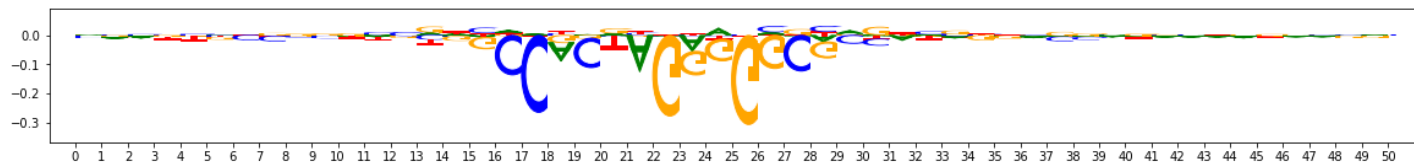
Sequence



Hypothetical contributions



Contribution\_scores



In [11]:

```
## TF-ModISco result visualization
# Single-task model trained on FOSL2
# SHAP scores/tf-modisco computed only for the FOSL2 task (all peaks)
# expected motif: TGACTCA / TGAGTCA / TGACGTCA
viz_motif(tfm_results_path_fosl)
```

Metacluster: metacluster\_0 (1/2)

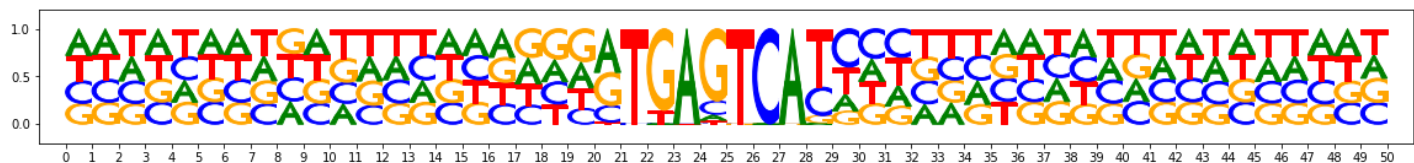
=====

Pattern: pattern\_0 (1/3)

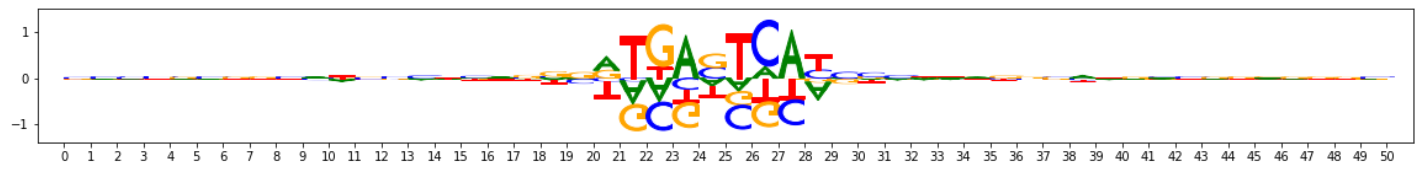
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6596 seqlets

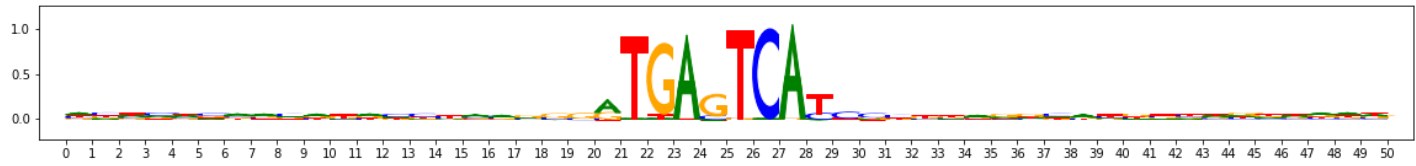
Sequence



Hypothetical contributions



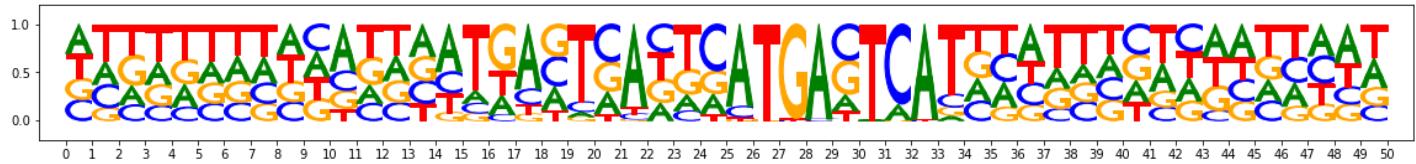
Contribution\_scores



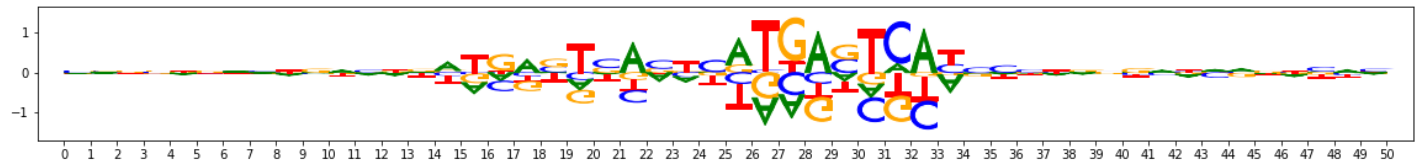
Pattern: pattern\_1 (2/3)

128 seqlets

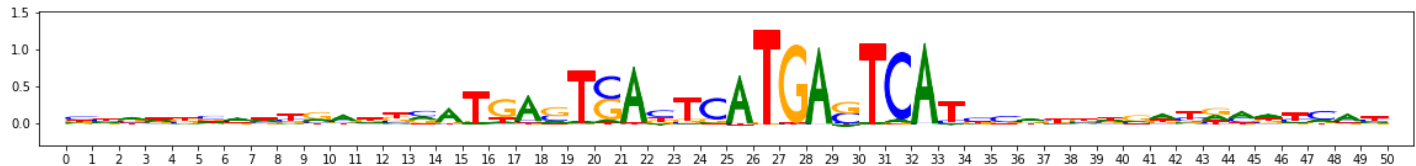
Sequence



Hypothetical contributions



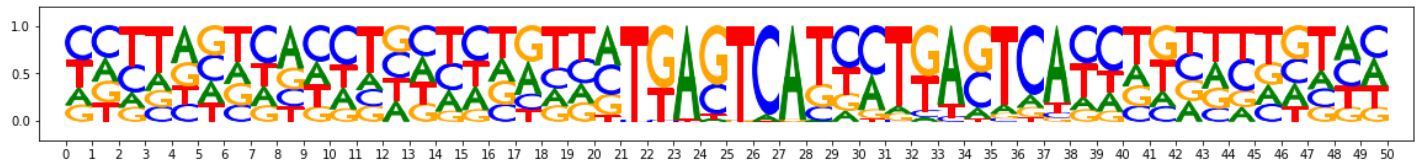
Contribution\_scores



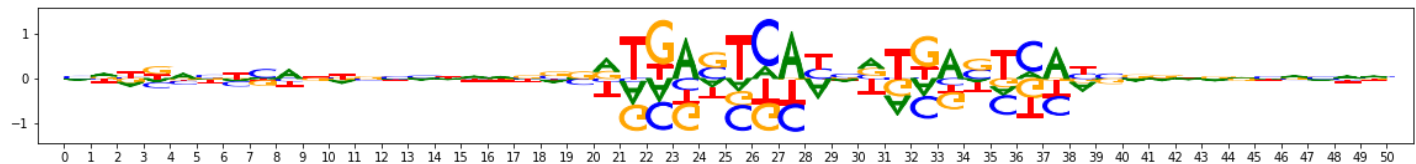
Pattern: pattern\_2 (3/3)

124 seqlets

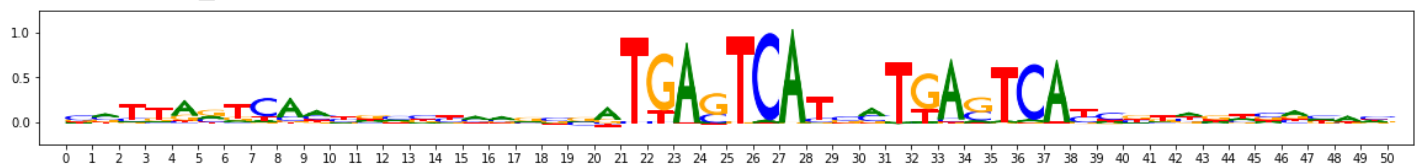
Sequence



Hypothetical contributions



Contribution\_scores

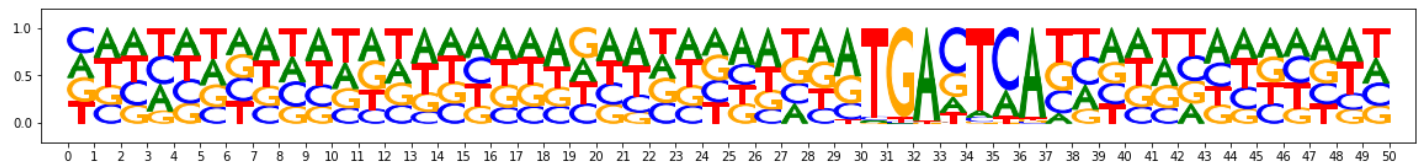


Metacluster: metacluster\_1 (2/2)

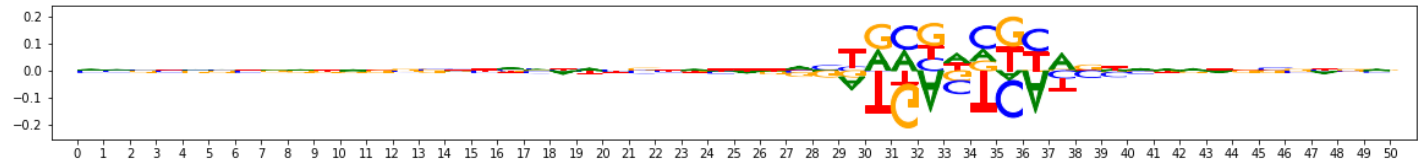
Pattern: pattern\_0 (1/1)

157 seqlets

Sequence



Hypothetical contributions



Contribution\_scores

