



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	2
Number of top significant motifs:	10
Number of best matches:	10
Similarity cutoff >=	0.75
Matching motif database:	UniProbe Mus Musculus
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
PScanChIP_DM05.txt	16	1
RSAT_peak-motifs_DM05.txt	17	2

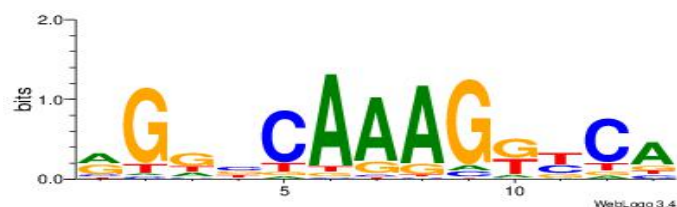
RESULTS

Best Matches in Database for Each Motif (Highest to Lowest)

Dataset #: 1 **Motif ID: 1** **Motif name: HNF4A**

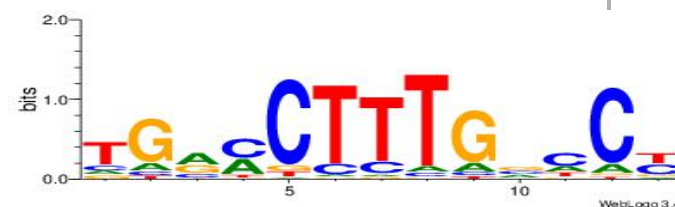
Original motif

Consensus sequence: RGGBCAAAGKYCA



Reverse complement motif

Consensus sequence: TGM YCTTTGBCCK



Best Matches for Motif ID 1 (Highest to Lowest)

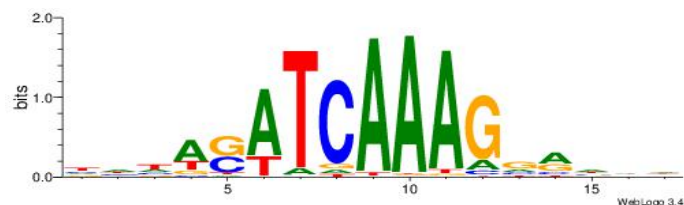
Motif ID:	UP00058
Motif name:	Tcf3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0357776

Alignment:

```
HHHASATCAAAGVRHHH  
---RGGBCAAAGKYCA--
```

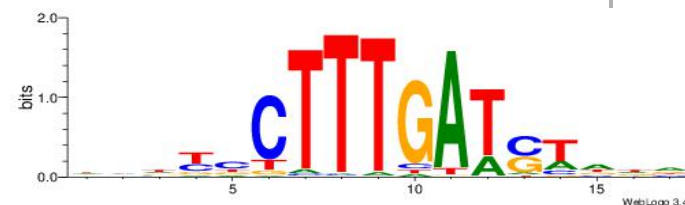
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00054](#)
Motif name: Tcf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0357792

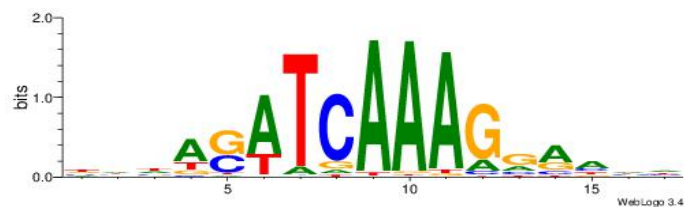
Alignment:

BHHASATCAAAGGAHHH

---RGGBCAAAGKYCA-

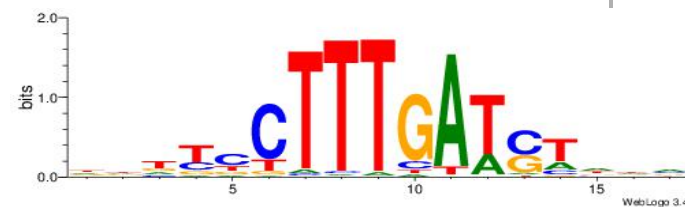
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00067](#)
Motif name: Lef1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0359011

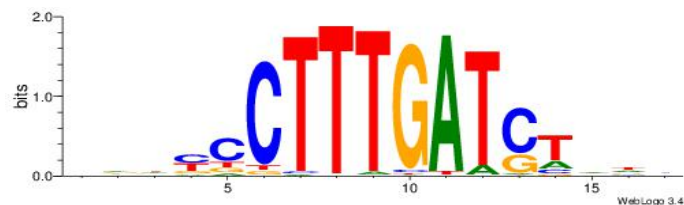
Alignment:

VDDAGATCAAAGGKDDD

---RGGBCAAAGKYCA-

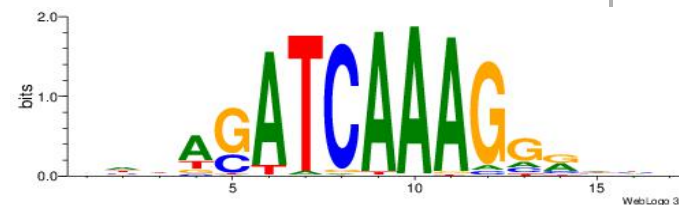
Original motif

Consensus sequence: DDYCCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward

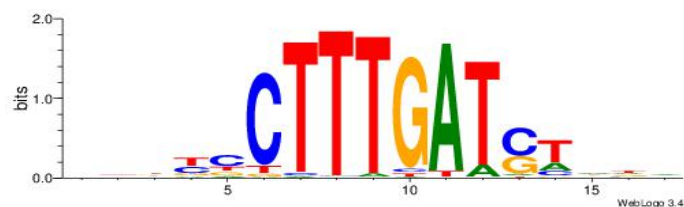
Position number: 4
Number of overlap: 13
Similarity score: 0.0360786

Alignment:

BDDASATCAAAGGMDDD
---RGGBCAAAGKYCA--

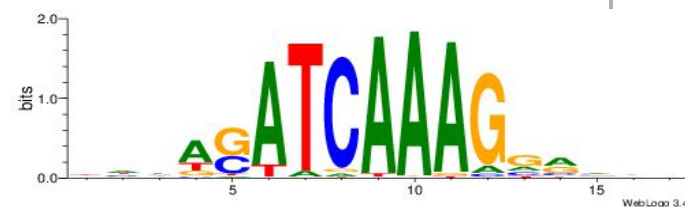
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



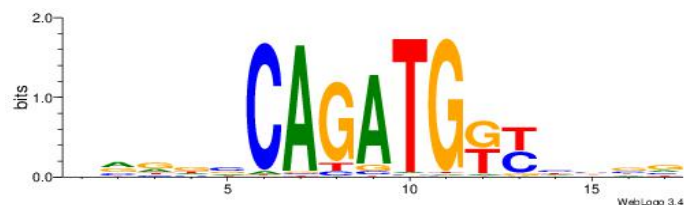
Motif ID: [UP00046](#)
Motif name: Tcfe2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0405764

Alignment:

HVDDVCAGATGKYHBBV
-RGGBCAAAGKYCA---

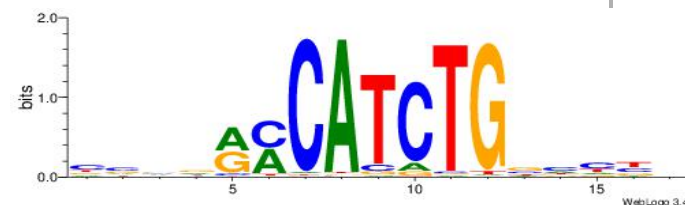
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0409915

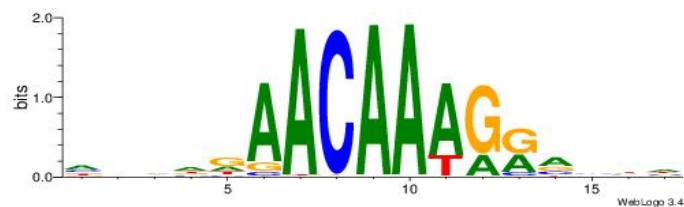
Alignment:

HHBBMCTTTGTTTHDDBH

-TGMCTTTGBCCK---

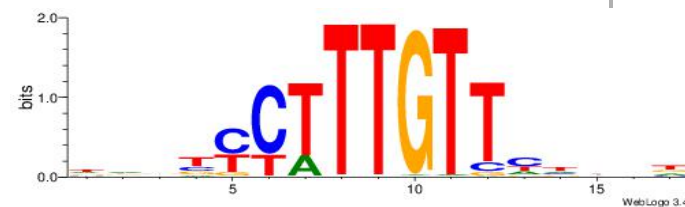
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH

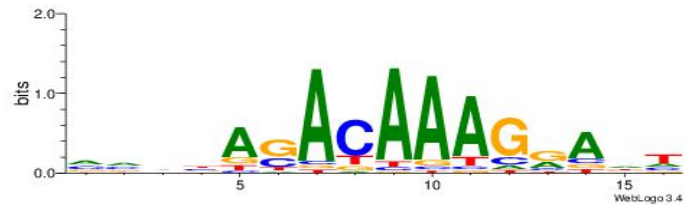


Motif ID: [UP00101](#)
Motif name: Sox12_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0413218

Alignment:
HDTMCTTTGTSTVDBB
TGM YCTTTGBCK---

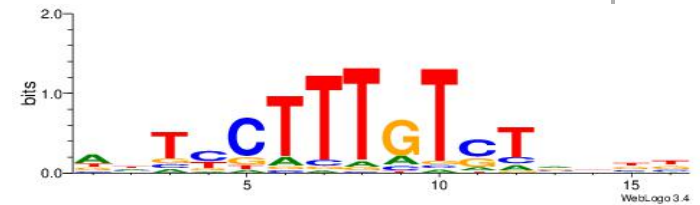
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4

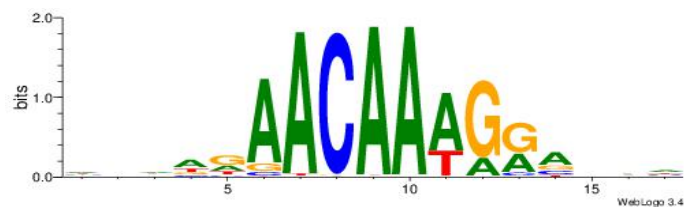
Number of overlap: 13
Similarity score: 0.0421105

Alignment:

HHBTMCTTTGTTMDDVH
-TGM YCTTTGB CCK---

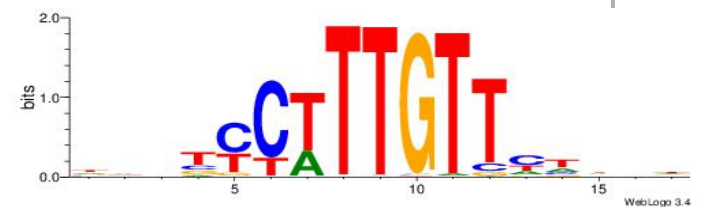
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00086](#)
Motif name: Irf3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0442004

Alignment:

DDAGAADGGDSCDV
RGGBCAAAGKYCA-

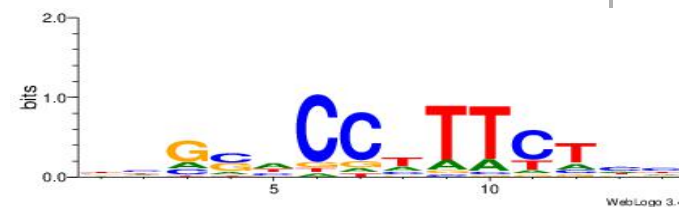
Original motif

Reverse complement motif

Consensus sequence: DDAGAADGGDSCDV



Consensus sequence: BHGSDCCD TTCTHH



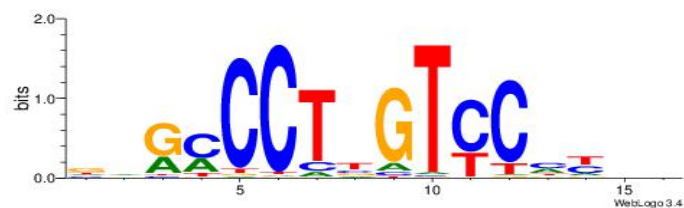
Motif ID: [UP00082](#)
Motif name: Zfp187_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0446884

Alignment:

VHMDGGACVAGGRCDH
---RGGBCAAAGKYCA

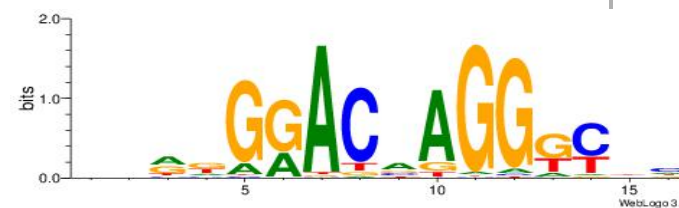
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Dataset #: 1 **Motif ID: 2** **Motif name: NR2F1**

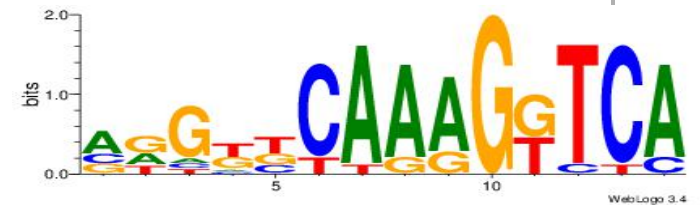
Original motif

Consensus sequence: TGAMCTTTGMMCYT



Reverse complement motif

Consensus sequence: AKGYCAAAGRTCA



Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID:	UP00083
Motif name:	Tcf7l2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0452364

Alignment:

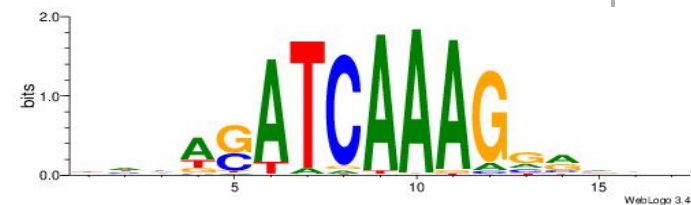
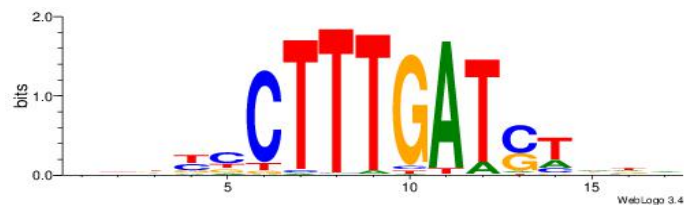
```
DDDYCCTTTGATSTDDV  
-TGAMCTTTGMMCYT--
```

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD

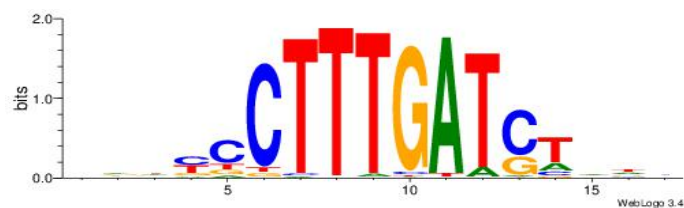


Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0453449

Alignment:
 VDDAGATCAAAGGKDDD
 --AKGY YCAAAGRTCA--

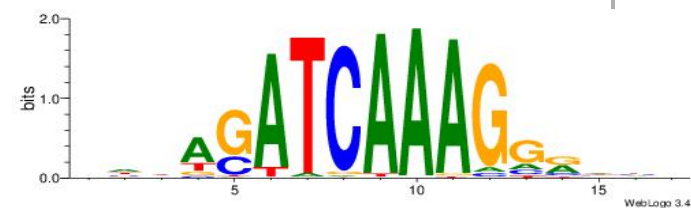
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00539](#)

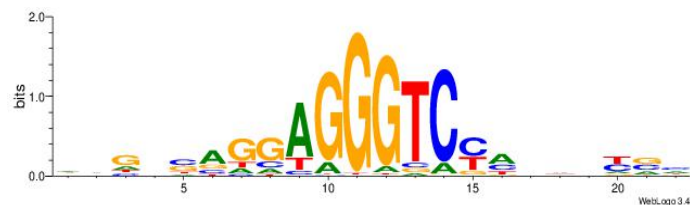
Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0461358

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 -----TGAMCTTTGMMCYT-

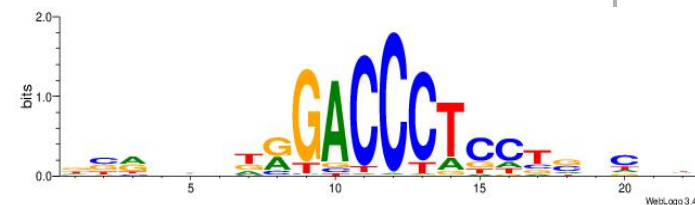
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14

Similarity score: 0.0461768

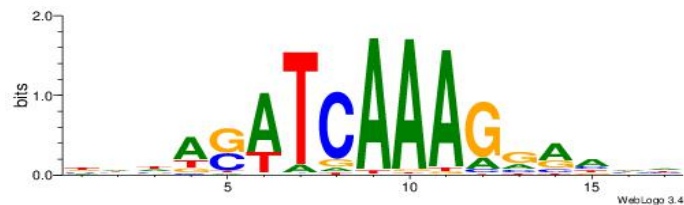
Alignment:

BHHASATCAAAGGAHHH

--AKGYTCAAAGRTCA--

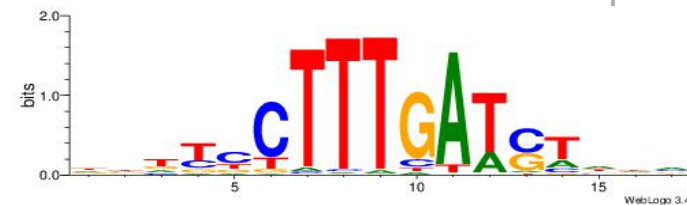
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00058](#)

Motif name: Tcf3_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Backward

Position number: 2

Number of overlap: 14

Similarity score: 0.0473628

Alignment:

HHHASATCAAAGVRHHH

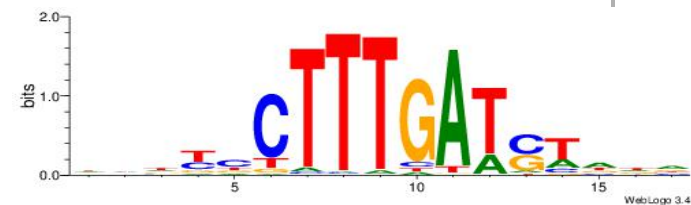
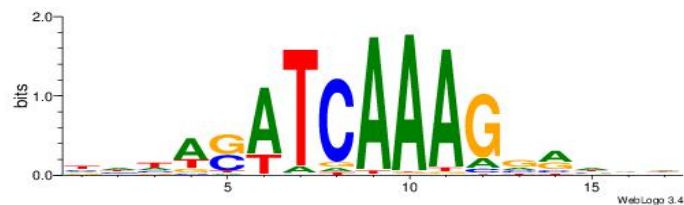
--AKGYTCAAAGRTCA--

Original motif

Consensus sequence: HHHASATCAAAGVRHHH

Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH

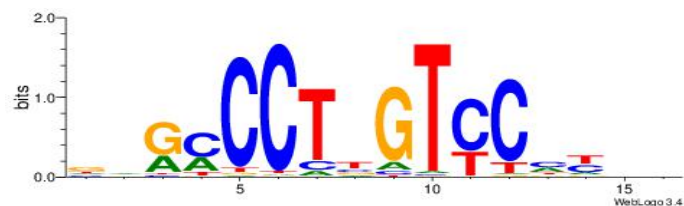


Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0480188

Alignment:
 DDGMCCTBGTCCHYHV
 TGAMCTTTGMMCYT--

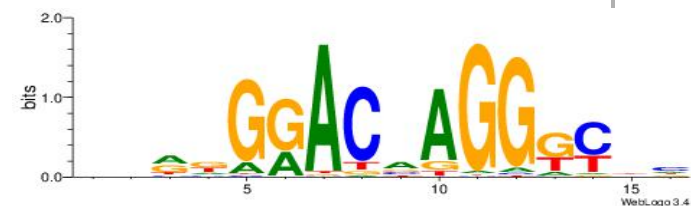
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



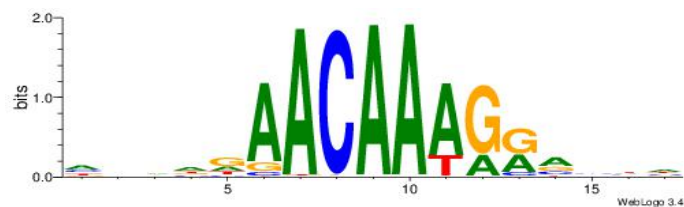
Motif ID: [UP00062](#)
 Motif name: Sox4_primary

Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0495447

Alignment:
 HHBBMCTTTGTTHDDBH
 -TGAMCTTTGMMCYT--

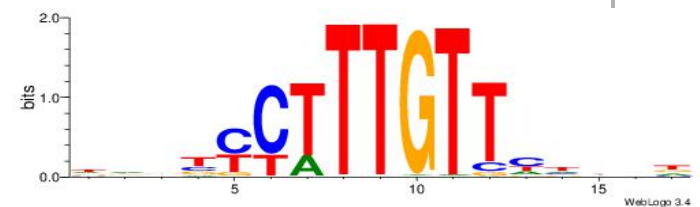
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



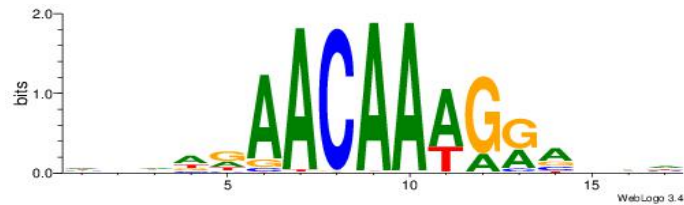
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0499033

Alignment:

HHBTMCTTTGTTMDDVH
-TGAMCTTTGMMCYT--

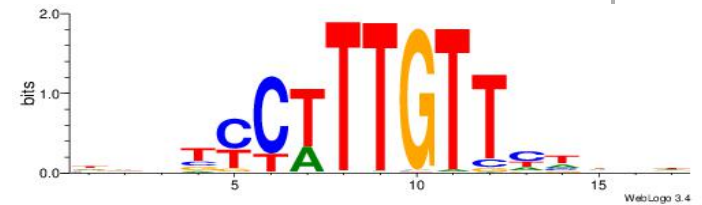
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID:	UP00023
Motif name:	Sox30_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0511534

Alignment:

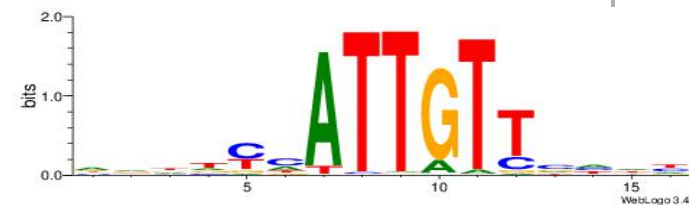
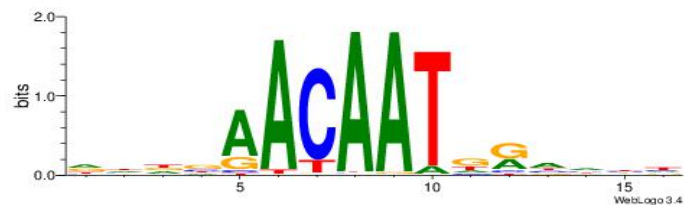
DHDBAACAATDRHHHH
--TGAMCTTTGMMCYT

Original motif

Consensus sequence: DHDBAACAATDRHHHH

Reverse complement motif

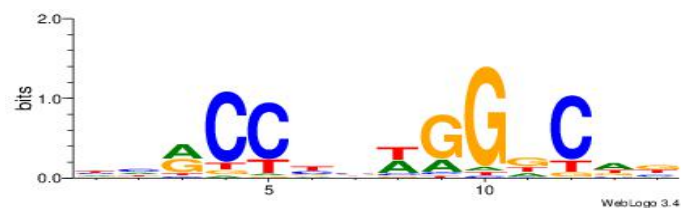
Consensus sequence: HHHMHATTGTTBDHD



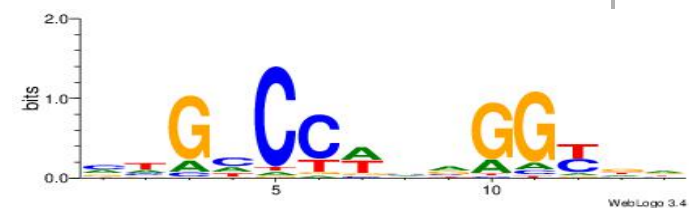
Motif ID: [UP00005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0516973

Alignment:
 BDGHCCWBVGKDH
 AKGY YCAAAGRTCA

Original motif
 Consensus sequence: HHRCCBBWGGDCDB



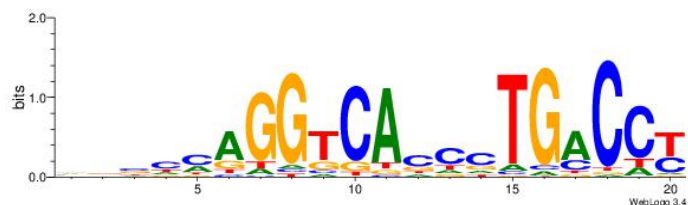
Reverse complement motif
 Consensus sequence: BDGHCCWBVGKDH



Dataset #: 1 **Motif ID: 3** **Motif name: ESR1**

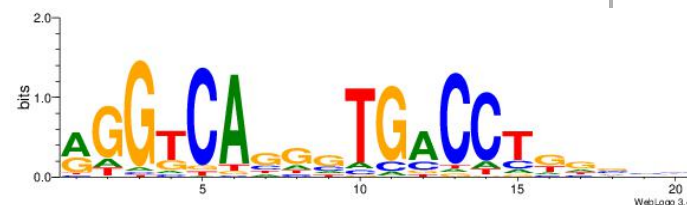
Original motif

Consensus sequence: VDBHMAGGTCACCCTGACCY



Reverse complement motif

Consensus sequence: MGGTCAGGGTGACCTRDBHV



Best Matches for Motif ID 3 (Highest to Lowest)

Motif ID:	UP00538
Motif name:	Gli1_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	20
Similarity score:	0.0658405

Alignment:

BDDHVDKGCCACCCVCGCTDBVH

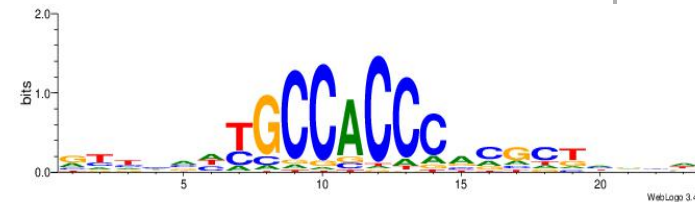
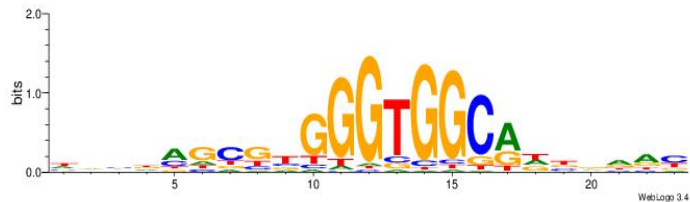
VDBHMAGGTCACCCTGACCY---

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



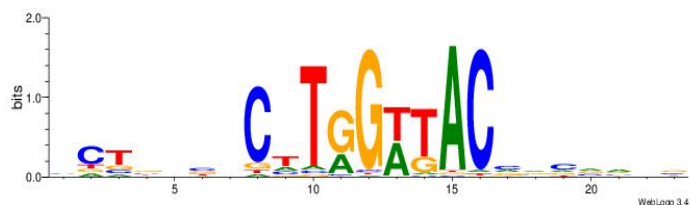
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0689748

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
 VDBHMAGGTCACCCTGACCY---

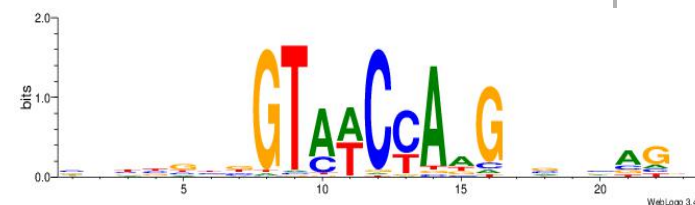
Original motif

Consensus sequence: VCTBHBVCTTGGWTACV VVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00539](#)

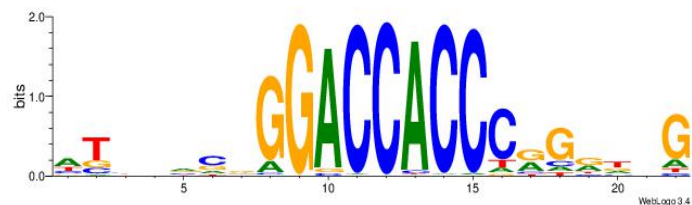
Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0701247

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 MGGTCAGGGTGACCTRDBHV--

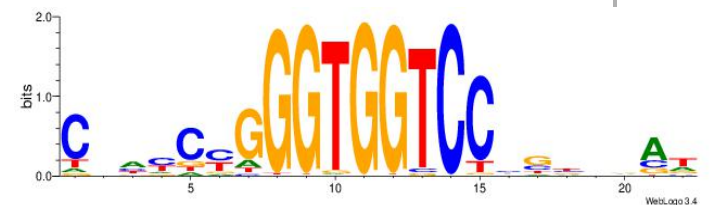
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

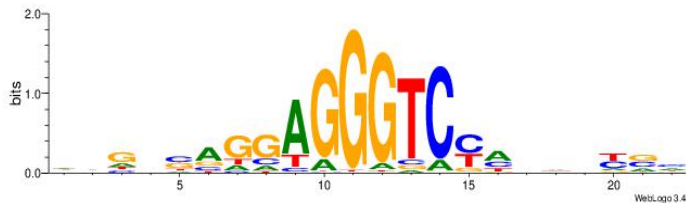


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20

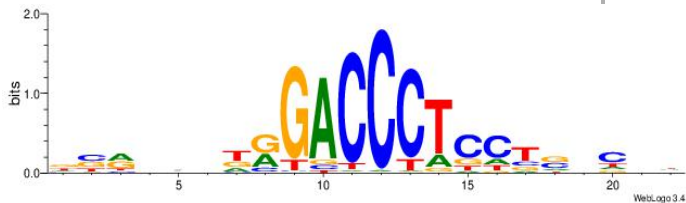
Similarity score: 0.0711267

Alignment:
HVGVSAGGAGGGTCYHHHHYVH
MGGTCAGGGTGACCTRDBHV--

Original motif
Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

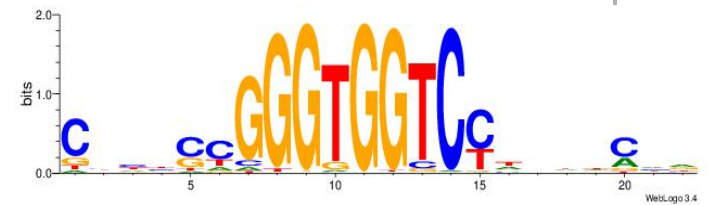
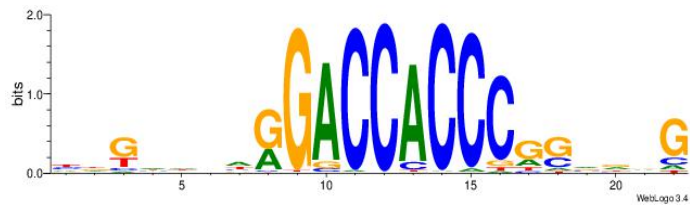


Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 20
Similarity score: 0.0742427

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
-VDBHMAGGTCACCCTGACCY-

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG

Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



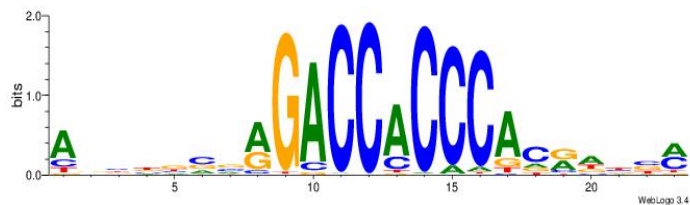
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0747053

Alignment:

ABBBBVVRGACCACCCACRDBBM
 --VDBHMAGGTCACCCTGACCY-

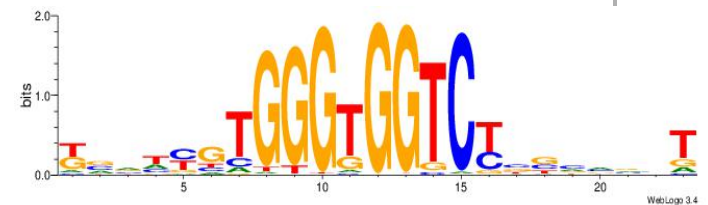
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMSGTGGGTGGTCKVVBVBBT



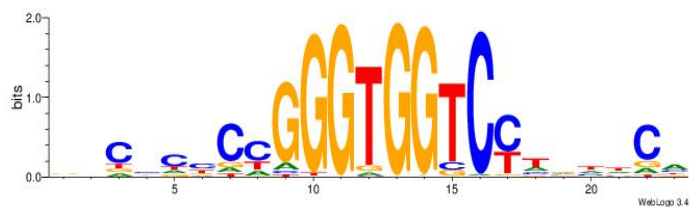
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0749165

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 ---VDBHMAGGTCACCCCTGACCY

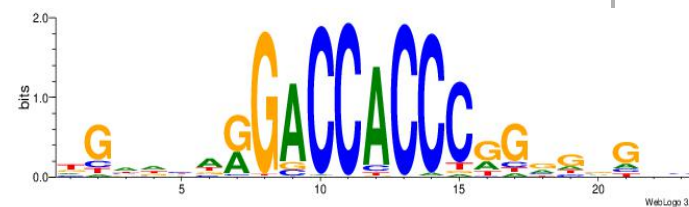
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2

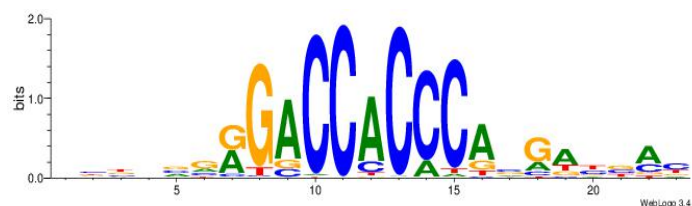
Number of overlap: 20
Similarity score: 0.0759307

Alignment:

BBBDVVRGACCACCCAVGABBAB
-VDBHMAGGTCACCCTGACCY--

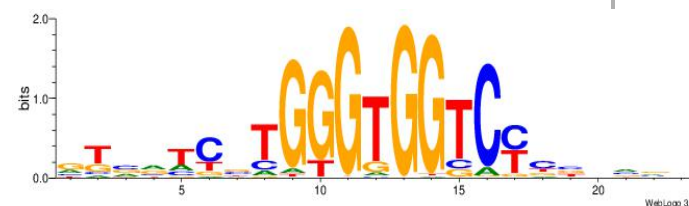
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCVTGGGTGGTCMVVDVBB



Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0762689

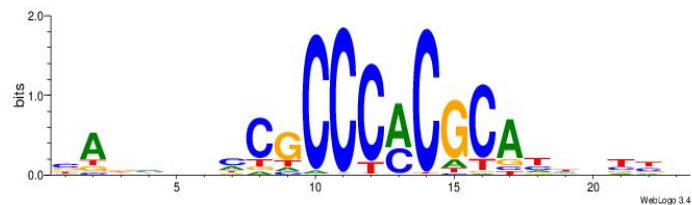
Alignment:

VVVDHHTGCGYGGGCGDHVHHTB
-MGGTCAGGGTGACCTRDBHV--

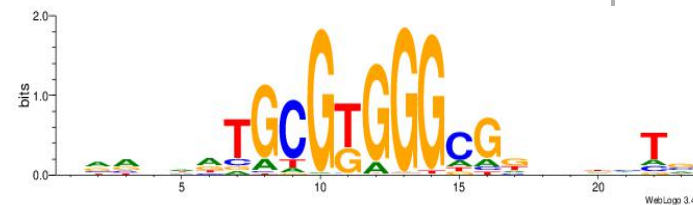
Original motif

Reverse complement motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



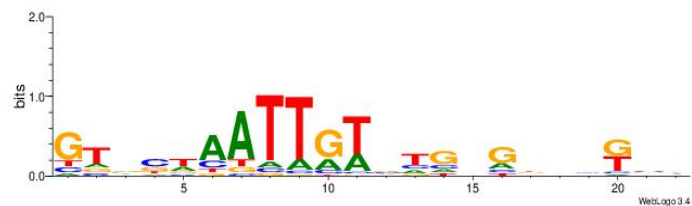
Motif ID: [UP00034](#)
Motif name: Sox7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0780113

Alignment:

GTVBDAATTGTVTGHGDDHKVB
VDBHMAGGTCACCTGACCY--

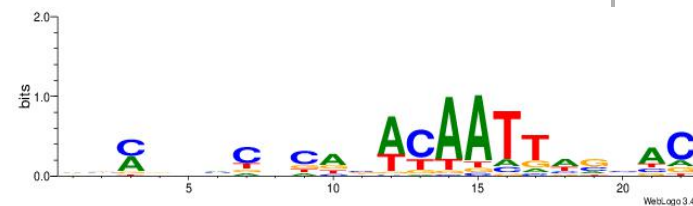
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

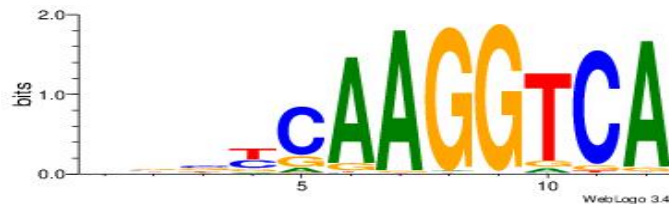
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Dataset #: 1 **Motif ID: 4** **Motif name: Esrrb**

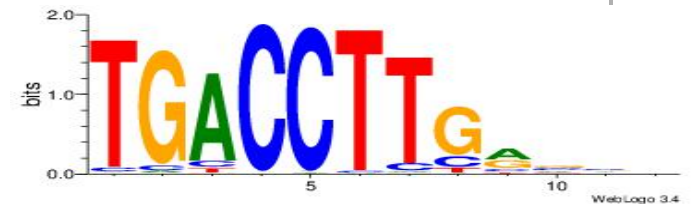
Original motif

Consensus sequence: VBBYCAAGGTCA



Reverse complement motif

Consensus sequence: TGACCTTGMBBB



Best Matches for Motif ID 4 (Highest to Lowest)

Motif ID:	UP00079
Motif name:	Esrra_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0

Alignment:

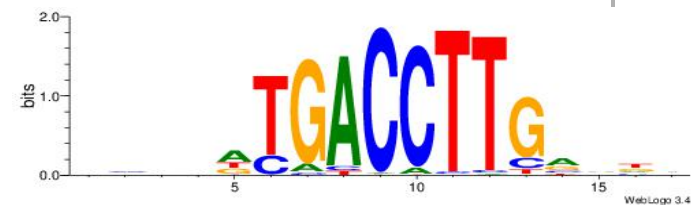
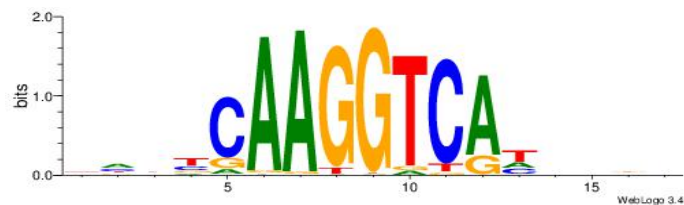
```
HHBVHTGACCTTGVDHD
-----TGACCTTGMBBB
```

Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH

Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

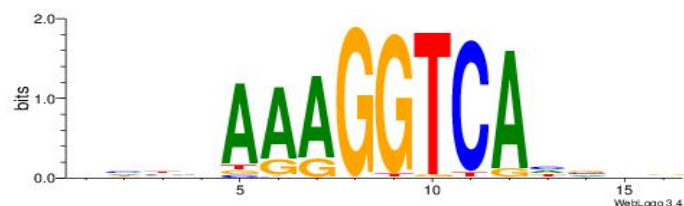


Motif ID: [UP00009](#)
 Motif name: Nr2f2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0205471

Alignment:
 DHBHAAAGGTCAHVHB
 VBBYCAAGGTCA----

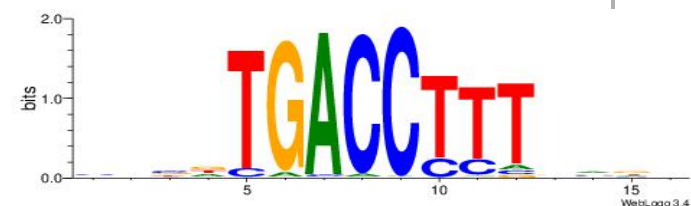
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



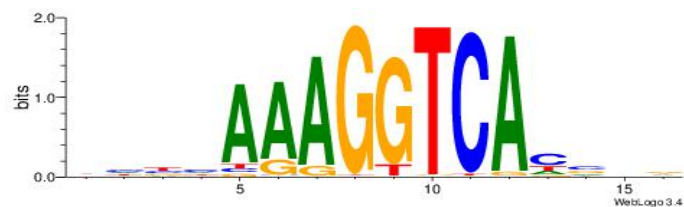
Motif ID: [UP00048](#)

Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0214372

Alignment:
DHBHAAAGGTCACVHD
VBBYCAAGGTCA-----

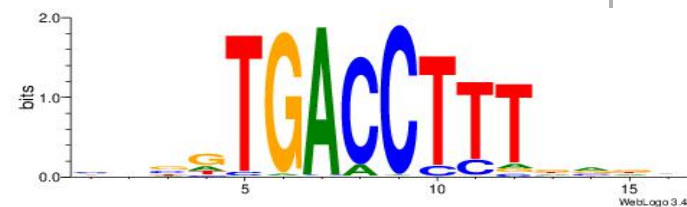
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



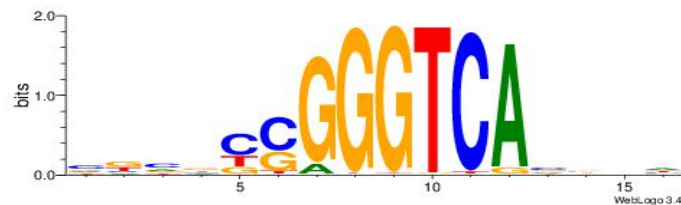
Motif ID:	UP00009
Motif name:	Nr2f2_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0430759

Alignment:

HVBVTGACCCSGBVBV
----TGACCTTGMBBB

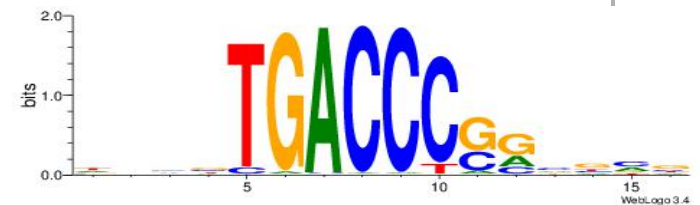
Original motif

Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID:	UP00066
Motif name:	Hnf4a_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0451776

Alignment:

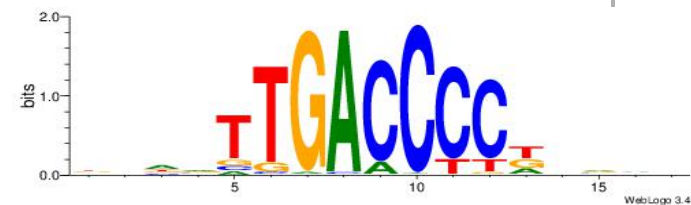
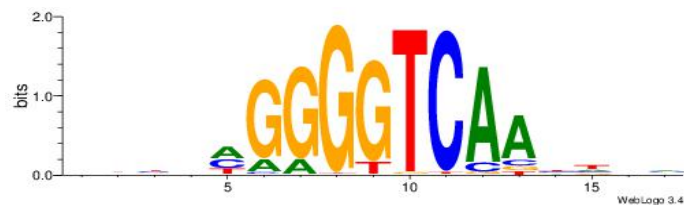
BDBVMGGGGTCAABHDV
VBBYCAAGGTCA-----

Original motif

Consensus sequence: BDBVMGGGGTCAABHDV

Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD

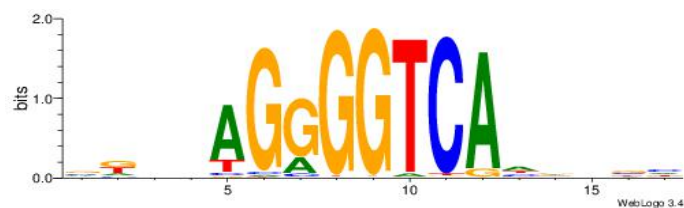


Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 12
 Similarity score: 0.0482496

Alignment:
 VKBBAGGGGTCAHDBBH
 VBBYCAAGGTCA-----

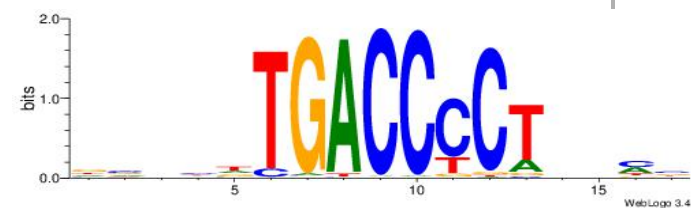
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



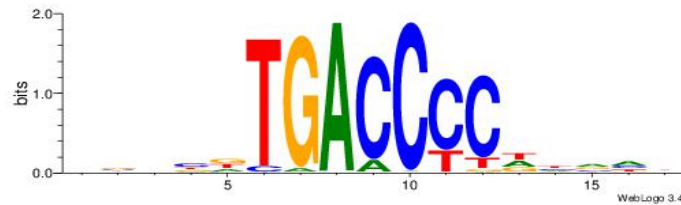
Motif ID: [UP00053](#)

Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0499025

Alignment:
 VHBHDGGGGTCAHBHBD
 -----TGACCTTGMBBB

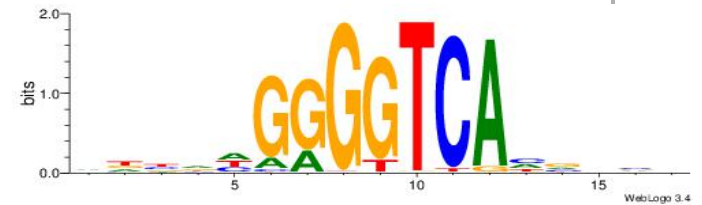
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



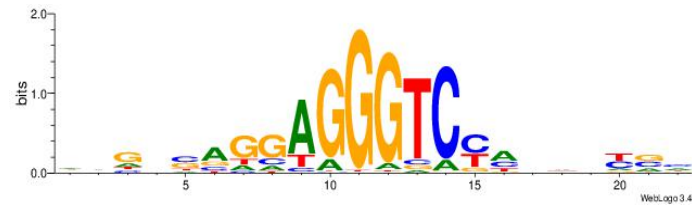
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 12
 Similarity score: 0.0525354

Alignment:

DVMHHDHKGACCCTCCTSVCBH
-----TGACCTTGMBBB----

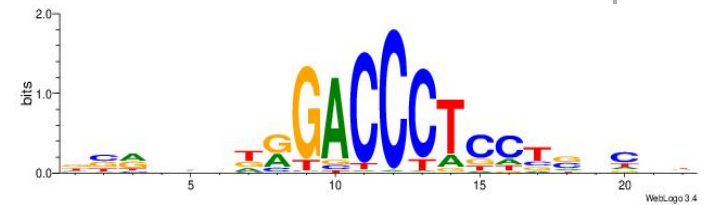
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID:

[UP00066](#)

Motif name:

Hnf4a_secondary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

Reverse Complement

Direction:

Backward

Position number:

1

Number of overlap:

12

Similarity score:

0.0580553

Alignment:

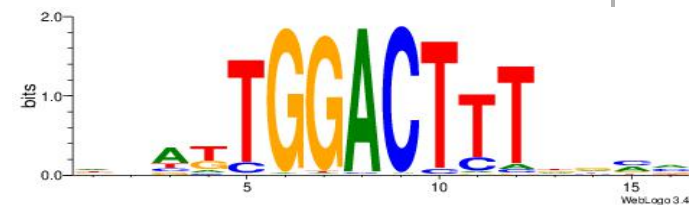
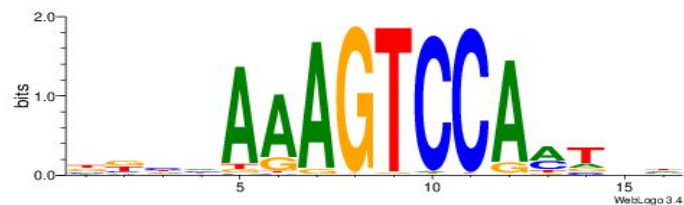
HHAYTGGACTTTHDBV
----TGACCTTGMBBB

Original motif

Consensus sequence: BBHHAAGTCCAMTHH

Reverse complement motif

Consensus sequence: HHAYTGGACTTTHDBV



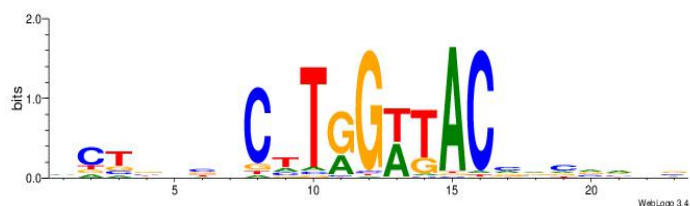
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0609738

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
 -----TGACCTTGMBBB-----

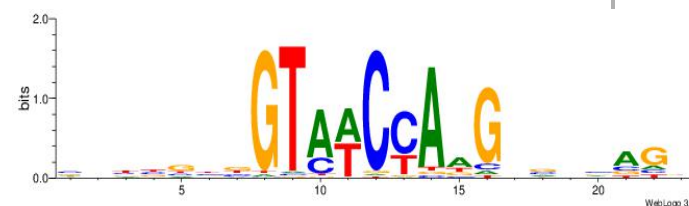
Original motif

Consensus sequence: VCTBHBVCTTGGWTACV V V V V V D B



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Dataset #: 1 **Motif ID: 5** **Motif name: ZEB1**

Original motif

Consensus sequence: CACCTD



Reverse complement motif

Consensus sequence: HAGGTG



Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID:	UP00068
Motif name:	Eomes_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	6
Similarity score:	0

Alignment:

VVBVCKACACCTHVBV

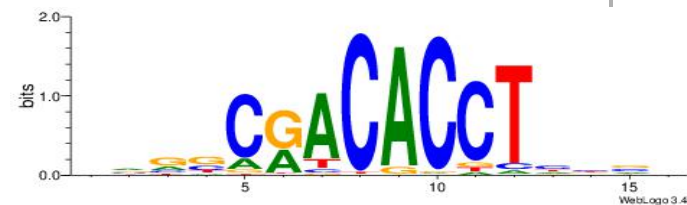
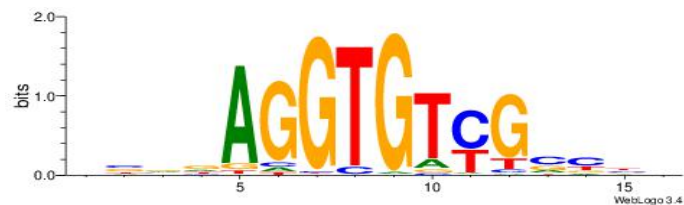
-----CACCTD---

Original motif

Consensus sequence: VBDAGGTGTGVBVV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

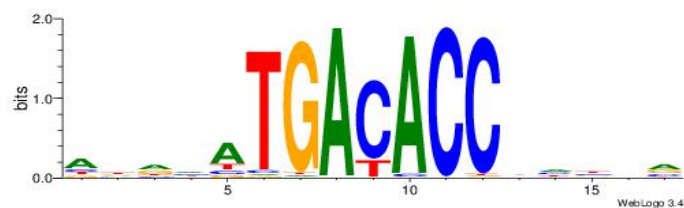


Motif ID: [UP00199](#)
 Motif name: Six4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.00433068

Alignment:
 BBVHVGGTGTCTHDDT
 ---HAGGTG-----

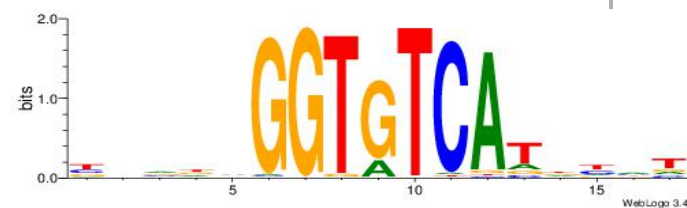
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTCTHDDT



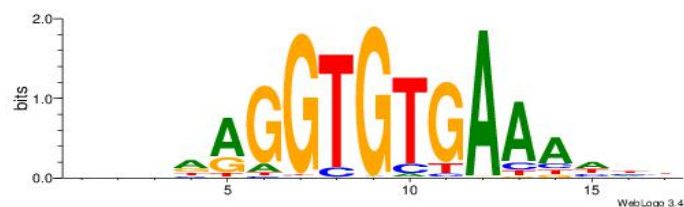
Motif ID: [UP00068](#)

Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00524081

Alignment:
 HHHTTTCACACCTDHBV
 -----CACCTD---

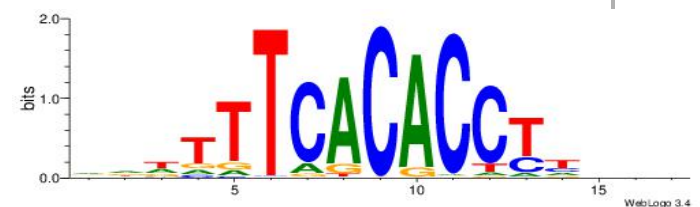
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6

Similarity score: 0.00911301

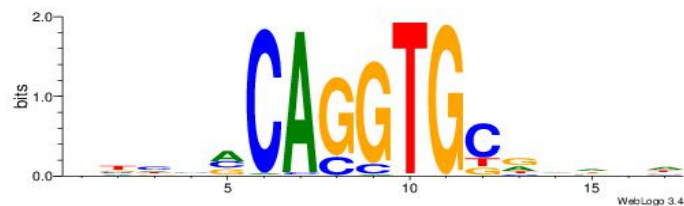
Alignment:

DHDBHGCACCTGBDDVB

-----CACCTD-----

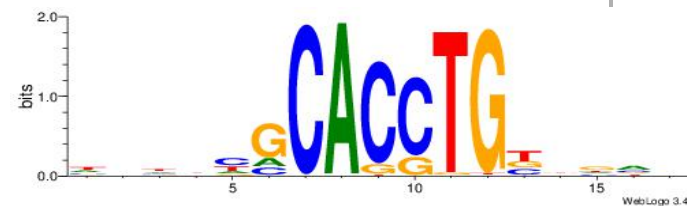
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00047](#)
Motif name: Zbtb7b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 6
Similarity score: 0.0233556

Alignment:

BDDRVGACCACCHBDVB

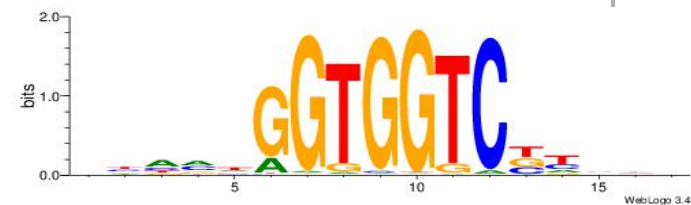
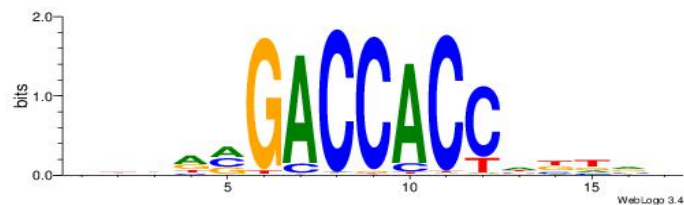
-----CACCTD---

Original motif

Consensus sequence: BDDRVGACCACCHBDVB

Reverse complement motif

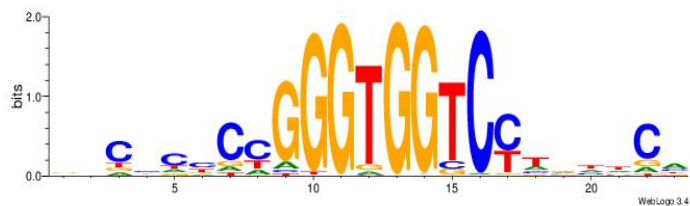
Consensus sequence: BBDVHGGTGGTCBKDDDB



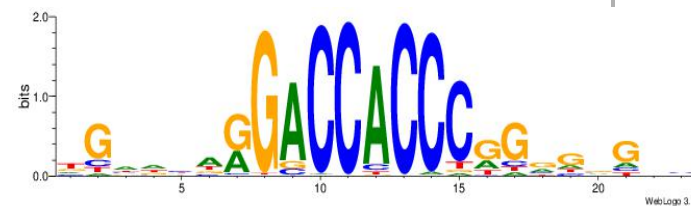
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 11
 Number of overlap: 6
 Similarity score: 0.0233928

Alignment:
 BHCBCBCCGGGTGGTCYHVHDCH
 -----HAGGTG-----

Original motif
 Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif
 Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



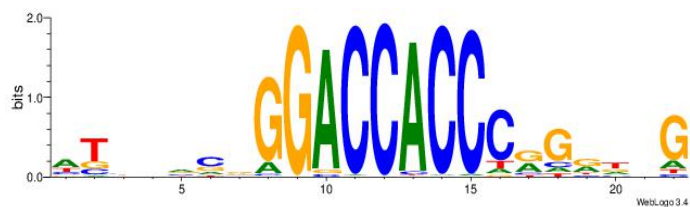
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12
 Number of overlap: 6
 Similarity score: 0.0254338

Alignment:

HTBVVVDGGACCACCCRGRDBG
 -----CACCTD-----

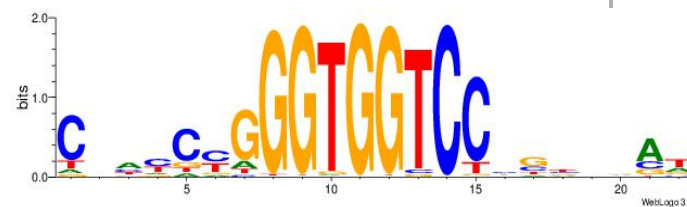
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

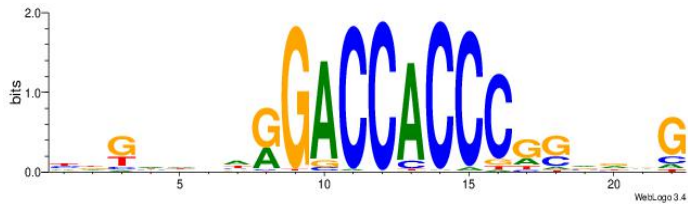


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12

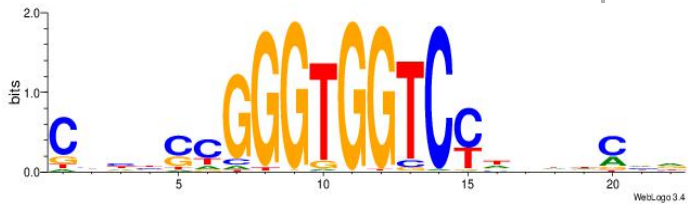
Number of overlap: 6
Similarity score: 0.0290143

Alignment:
HDGHHBHRGACCACCCGSVDVG
-----CACCTD-----

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



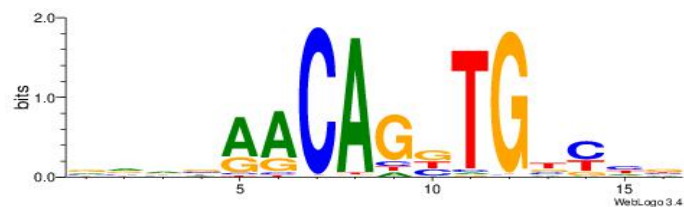
Motif ID: [UP00036](#)
Motif name: Myf6_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 6
Similarity score: 0.0309673

Alignment:
BDKVCABCTGTTBDBV
----CACCTD-----

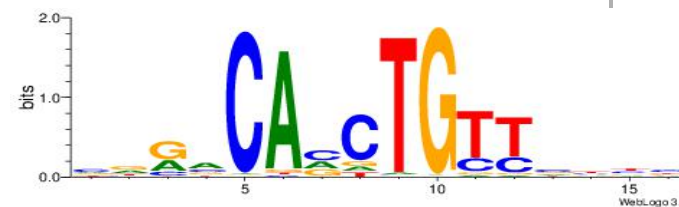
Original motif

Reverse complement motif

Consensus sequence: VVDBAACAGBTGBYHB



Consensus sequence: BDKVCABCTGTTBDBV



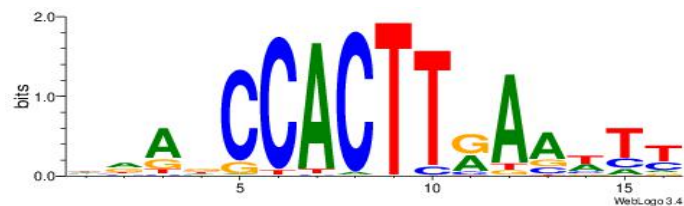
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.031502

Alignment:

HDADCCACTTTRAAWTT
 -----CACCTD-----

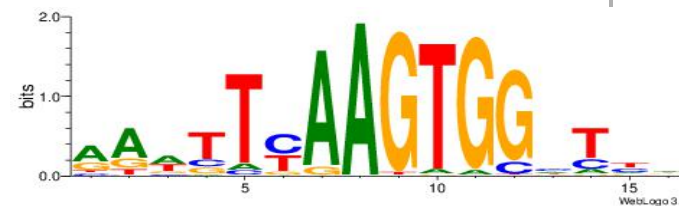
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Dataset #: 1 **Motif ID: 6** **Motif name: Mycn**

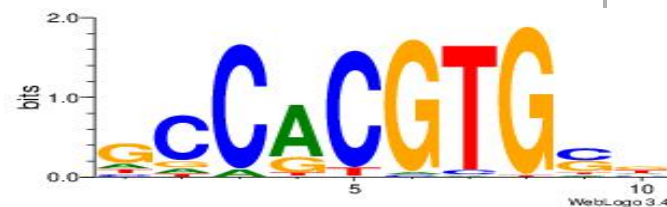
Original motif

Consensus sequence: HSCACGTGGC



Reverse complement motif

Consensus sequence: GCCACGTGSD



Best Matches for Motif ID 6 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

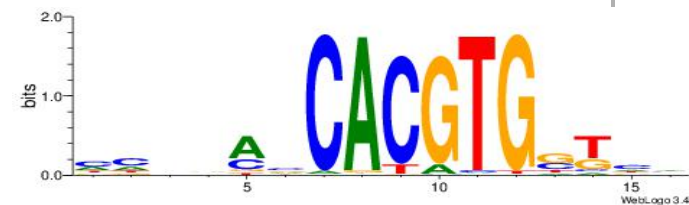
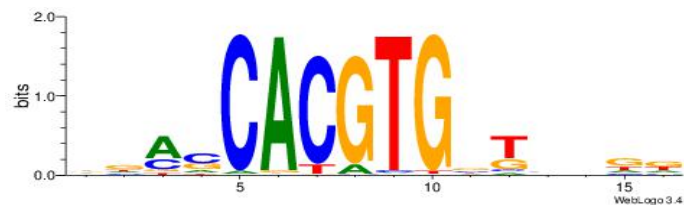
--HSCACGTGGC----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

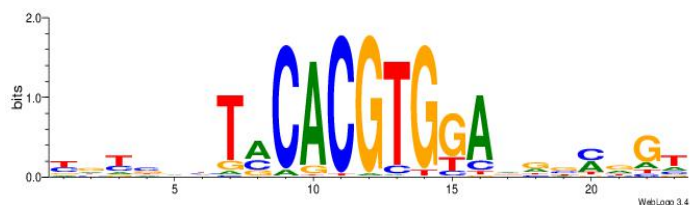


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----GCCACGTGSD-----

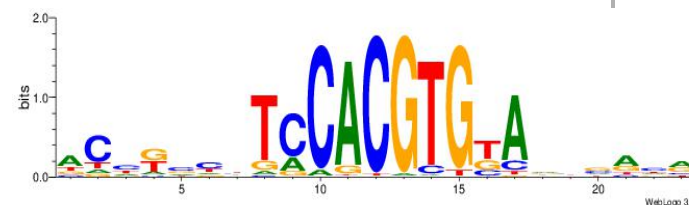
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

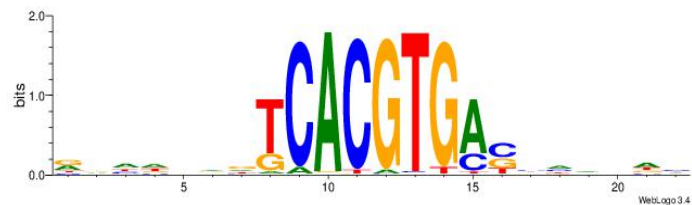
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0132858

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 -----GCCACGTGSD-----

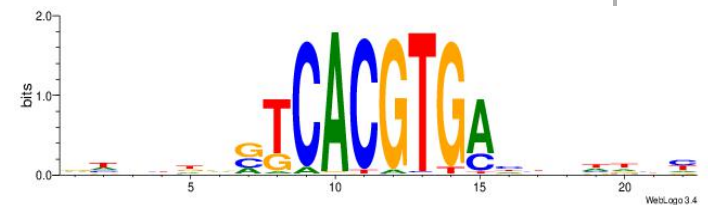
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10

Similarity score: 0.0227933

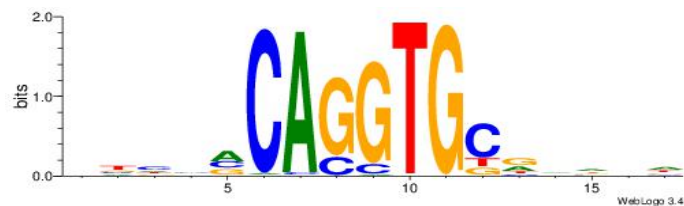
Alignment:

VBHHVCAGGTGCDVDHD

---GCCACGTGSD----

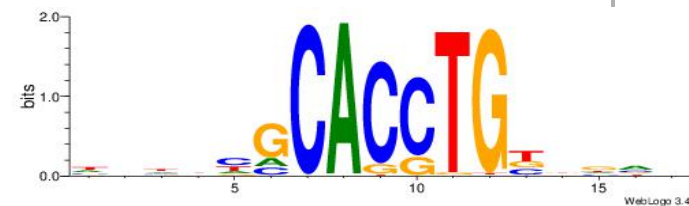
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0257011

Alignment:

BBGHCACGCGACDD

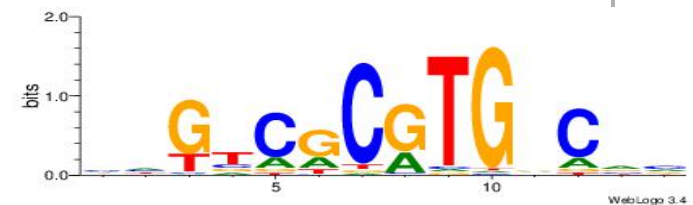
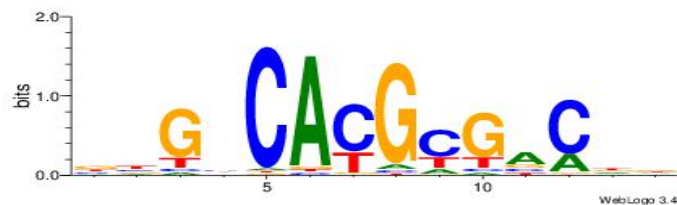
--HSCACGTGGC--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



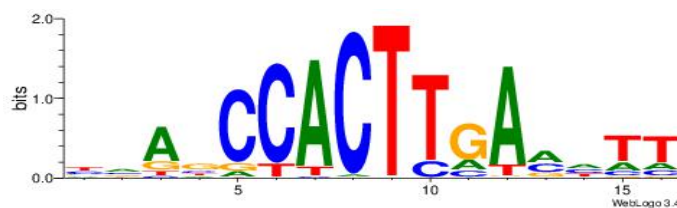
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0344833

Alignment:

BVABCCACTTGAMHTT
 ---GCCACGTGSD---

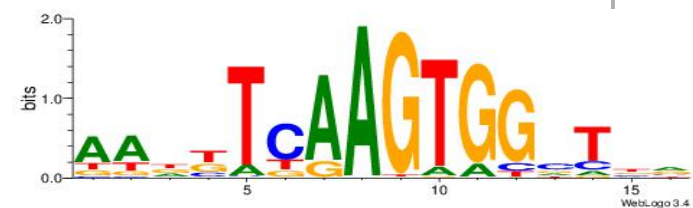
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



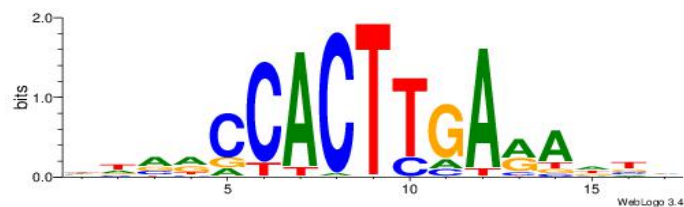
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.035228

Alignment:

HDVRCCACTTGARADBD
 ---GCCACGTGSD----

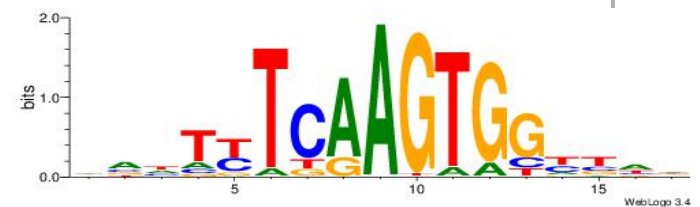
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DTDTKTCAAGTGGKBDH



Motif ID: [UP00084](#)
 Motif name: Gmeb1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

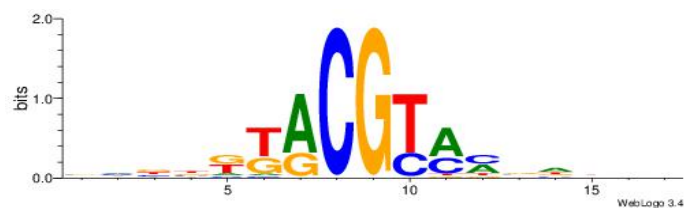
Number of overlap: 10
Similarity score: 0.0358581

Alignment:

BVVDVRYACGTRYVBHB
----GCCACGTGSD---

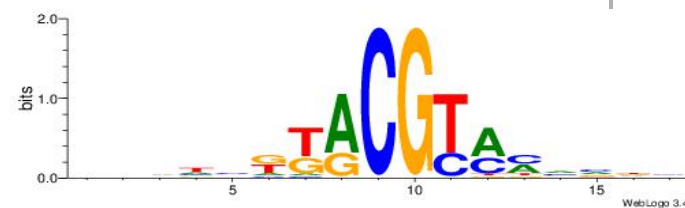
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



Motif ID: [UP00084](#)
Motif name: Gmeb1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.03725

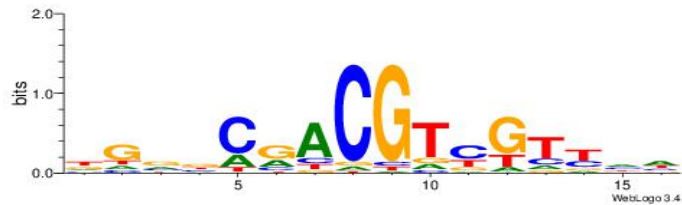
Alignment:

HHMACKACGTMGBVCD
---HSCACGTGGC---

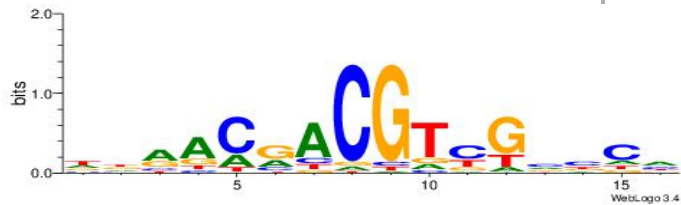
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYYH



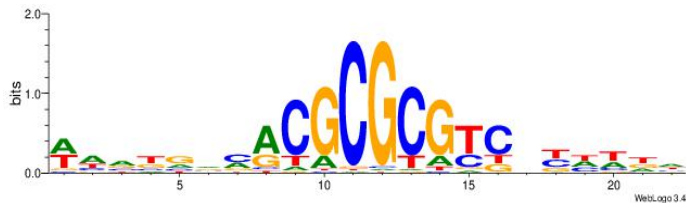
Consensus sequence: HHMACKACGTMGBVCD



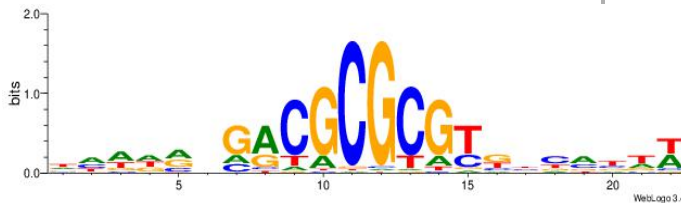
Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0383187

Alignment:
WHVBVVMACGCGCGTCDYHWDH
-----HSCACGTGGC-----

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



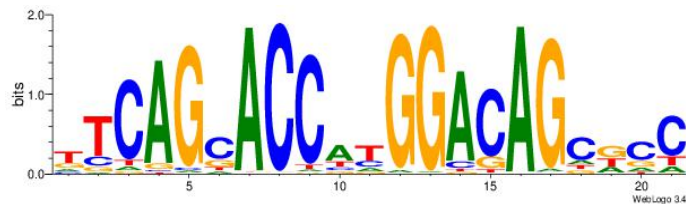
Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 1 **Motif ID: 7** **Motif name: REST**

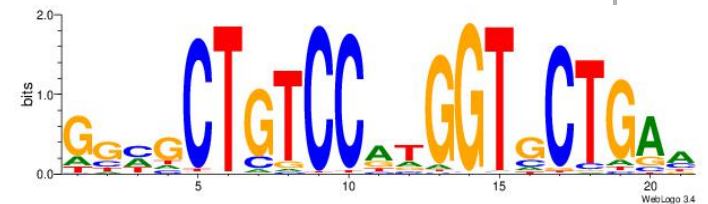
Original motif

Consensus sequence: TTCAGCACCATGGACAGCKCC



Reverse complement motif

Consensus sequence: GGYGCTGTCCATGGTGCTGAA



Best Matches for Motif ID 7 (Highest to Lowest)

Motif ID:	UP00538
Motif name:	Gli1_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	21
Similarity score:	0.0699178

Alignment:

```
BBBDVVRGACCACCCAVGABBAB
--TTCAGCACCATGGACAGCKCC
```

Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

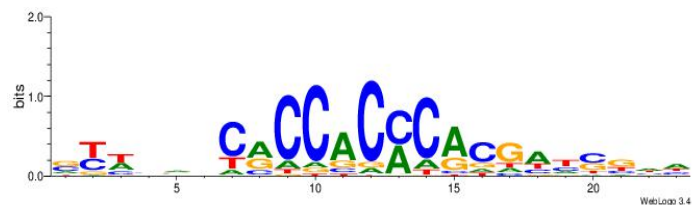
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.0740652

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -TTCAGCACCATGGACAGCKCC-

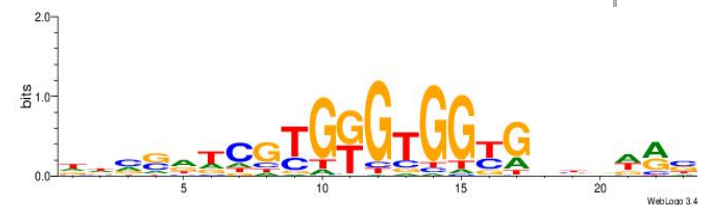
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

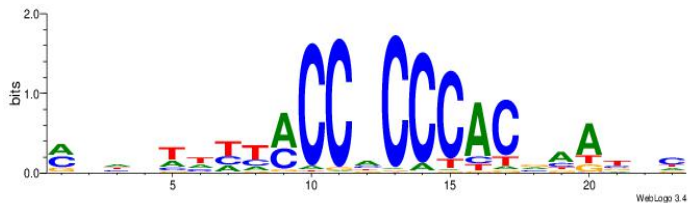


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 21

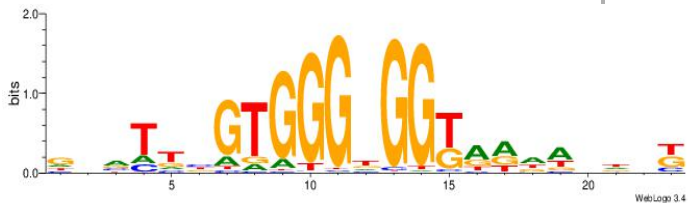
Similarity score: 0.0750152

Alignment:
MHHHWHYTMCCCHCCCACVAABVH
--TTCAGCACCATGGACAGCKCC

Original motif
Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif
Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

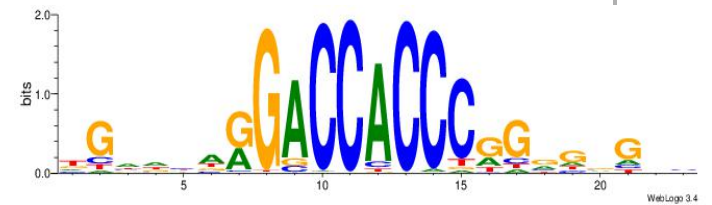
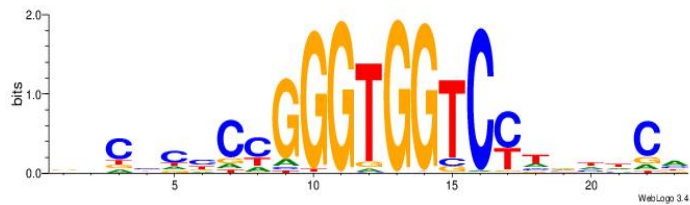


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 21
Similarity score: 0.0751449

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
GGYGCTGTCCATGGTGCTGAA--

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif
Consensus sequence: HGDHVVHKGACCACCCGGBGBGDB



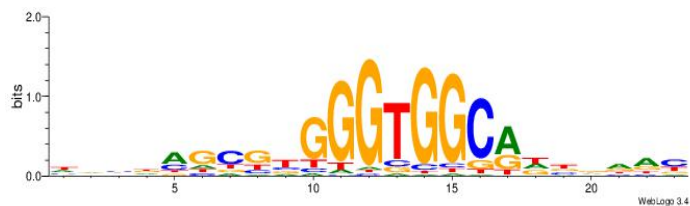
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.075832

Alignment:

BDDHVDKGCCACCCVCGCTDBVH
 -TTCAGCACCATGGACAGCKCC-

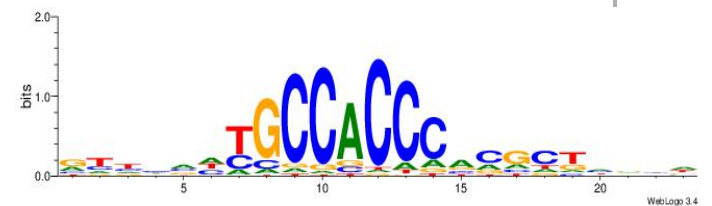
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



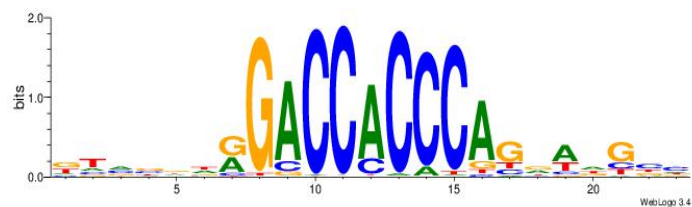
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0773446

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 --TTCAGCACCATGGACAGCKCC

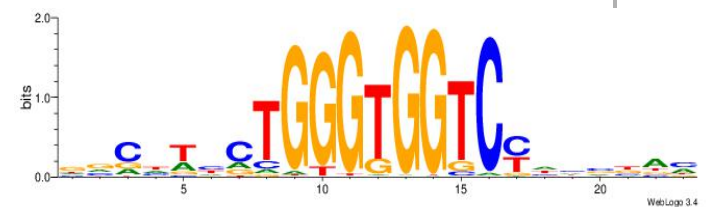
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3

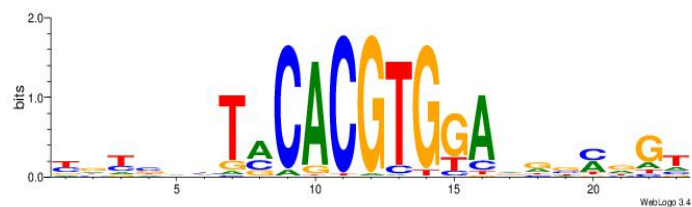
Number of overlap: 21
Similarity score: 0.0775367

Alignment:

YDYBDHTMCACGTGGADDBMDGT
--TTCAGCACCATGGACAGCKCC

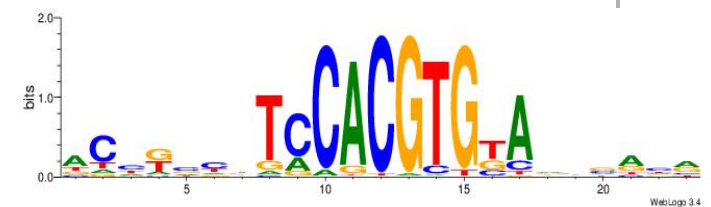
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHTCCACGTGYAHHBMHM



Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 21
Similarity score: 0.077977

Alignment:

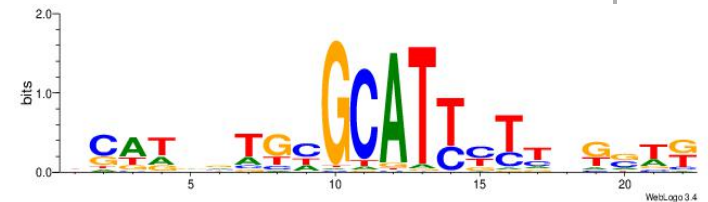
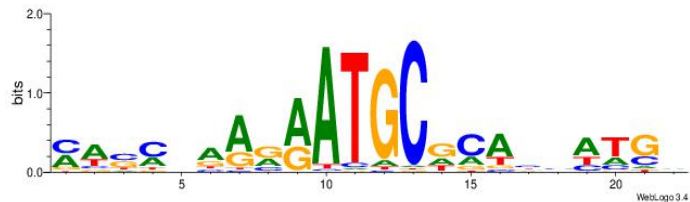
DCATDBTGHGCATKMTTBRSWR
-GGYGCTGTCCATGGTGCTGAA

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

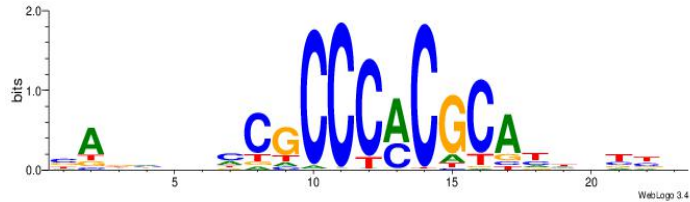
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



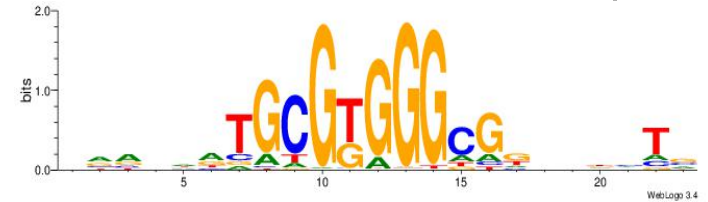
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0785969

Alignment:
 VVVDHHTGCGYGGGCGDHHVHHTB
 --GGYGCTGTCCATGGTGTGAA

Original motif
 Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif
 Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



Dataset #: 1 Motif ID: 8 Motif name: Myc

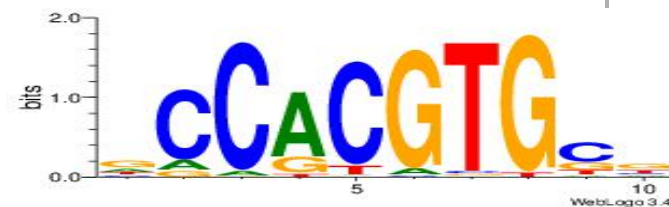
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

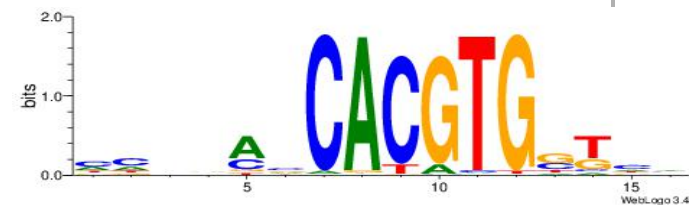
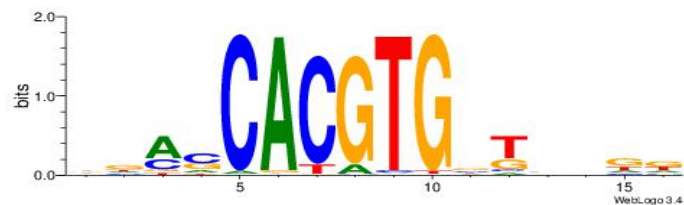
--VGCACGTGGH----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

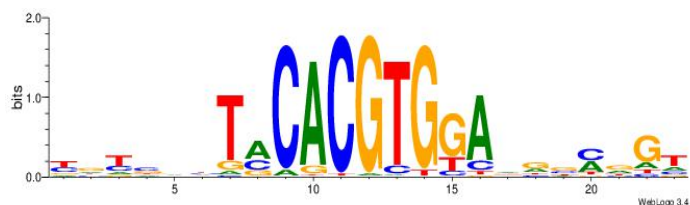


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.00631885

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----DCCACGTGCV-----

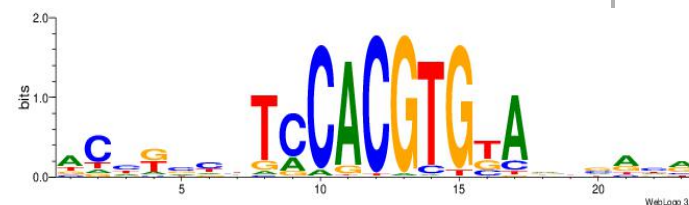
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

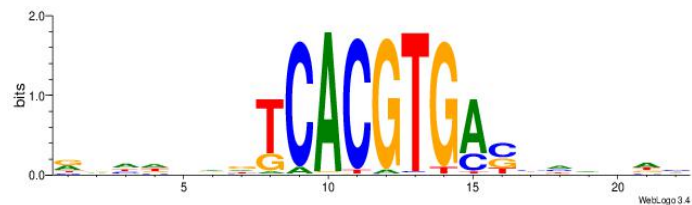
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00821668

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 -----DCCACGTGCV-----

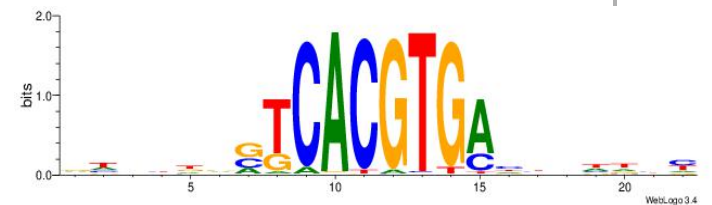
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10

Similarity score: 0.0140005

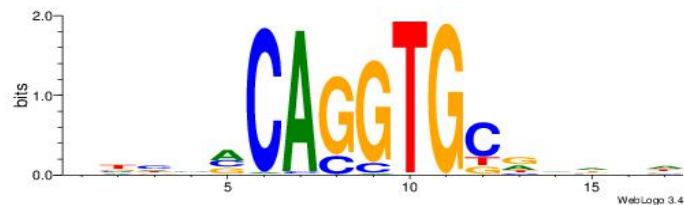
Alignment:

DHDBHGCACCTGBDDVB

----VGCACGTGGH----

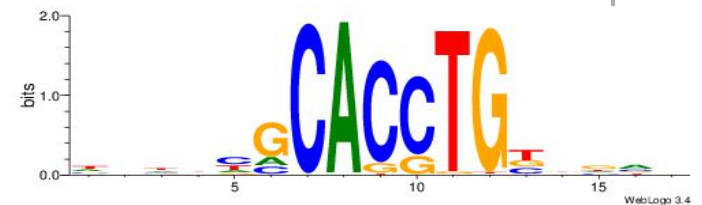
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0308912

Alignment:

BBGHCACGCGACDD

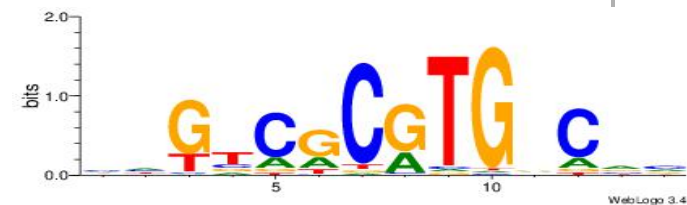
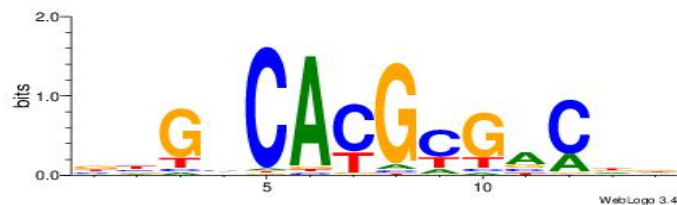
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



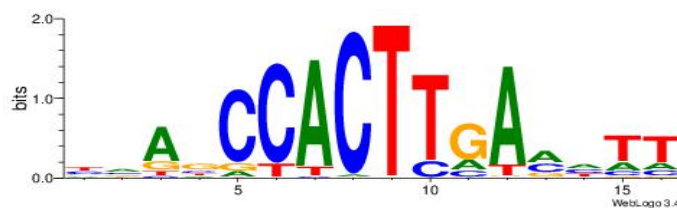
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0311723

Alignment:

BVABCCACTTGAMHTT
 ---DCCACGTGCV---

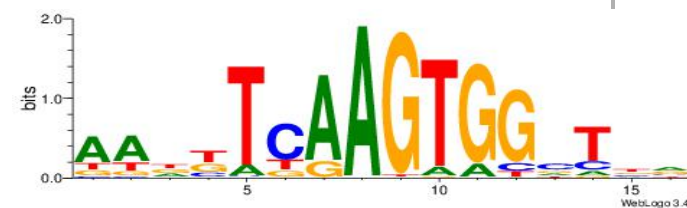
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



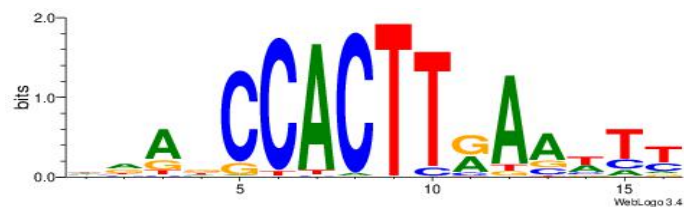
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT
 ---DCCACGTGCV---

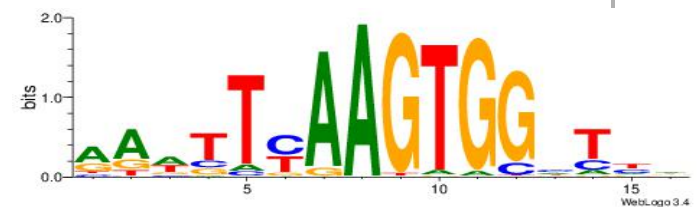
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

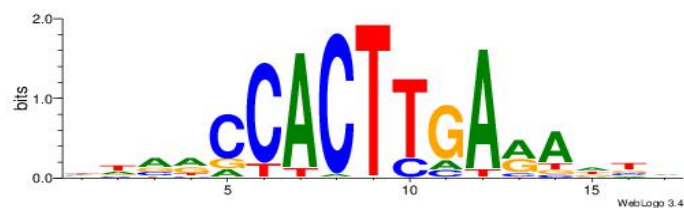
Number of overlap: 10
Similarity score: 0.0334845

Alignment:

HDVRCCACTTGARADBD
---DCCACGTGCV----

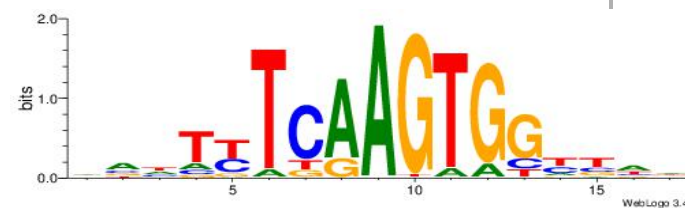
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00147](#)
Motif name: Nkx2-6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0345548

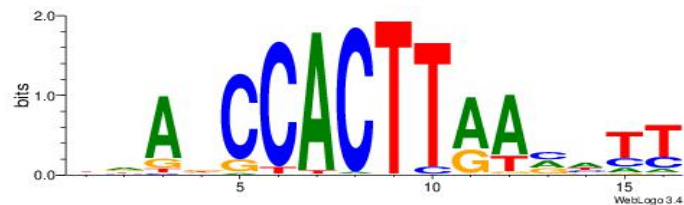
Alignment:

DDADCCACTTAAVHTT
---DCCACGTGCV---

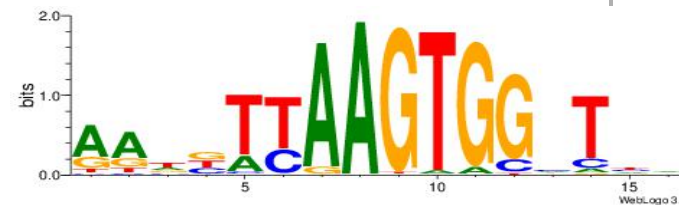
Original motif

Reverse complement motif

Consensus sequence: DDADCCACTTAAVHTT



Consensus sequence: AAHVTTAAGTGGHTDD



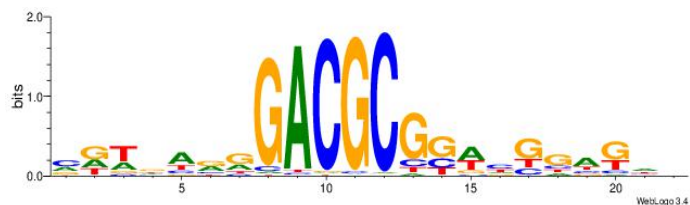
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0363818

Alignment:

VDWDARRGACGCGGWHGGAHV
-----VGCACGTGGH-----

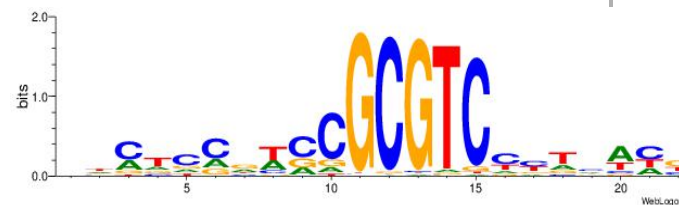
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

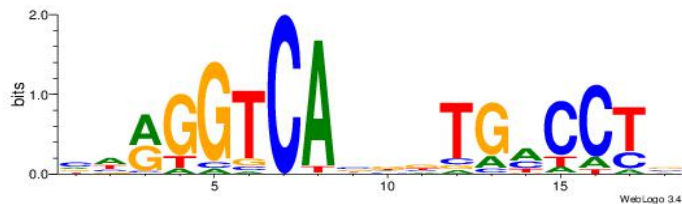
Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 1 **Motif ID: 9** **Motif name: ESR2**

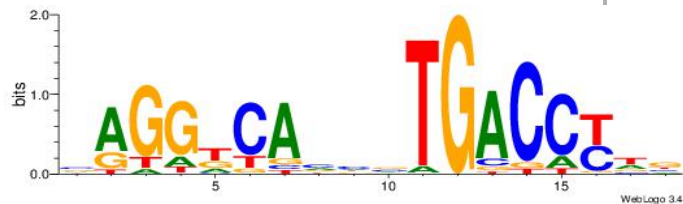
Original motif

Consensus sequence: VHRGGTCABDBTGMCTB



Reverse complement motif

Consensus sequence: BAGGYCABHBTGACCKHV



Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	UP00034
Motif name:	Sox7_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0443894

Alignment:

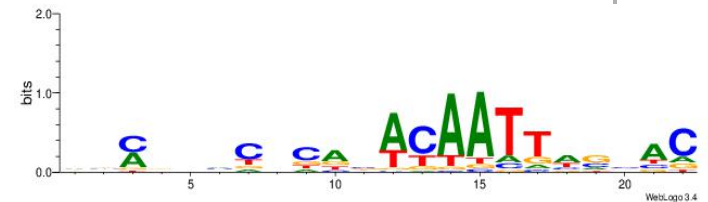
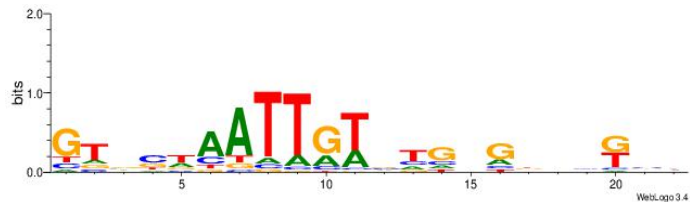
GTVBDAATTGTVTGHGDDHKVB
---VHRGGTCABDBTGMCTB-

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

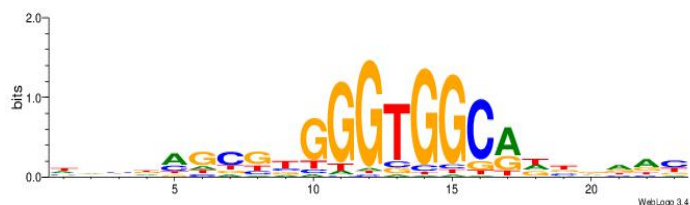
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



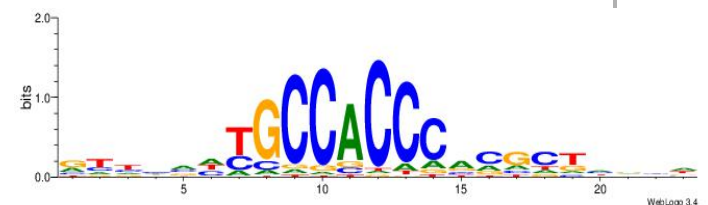
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.049219

Alignment:
 BDDHVDKGCCACCCVCGCTDBVH
 ---VHRGGTCABDBTGMCTB--

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00050](#)

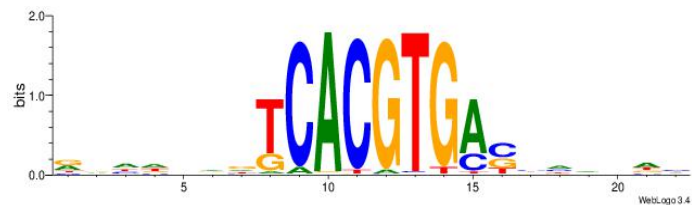
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0509182

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 --VHRGGTCABDBTGMCTB--

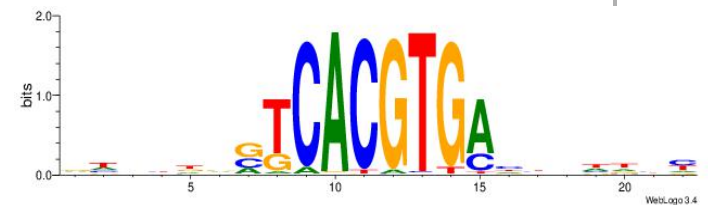
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM

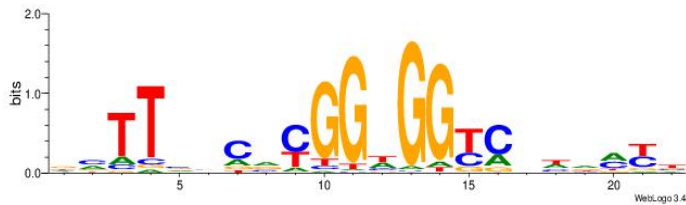


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 18

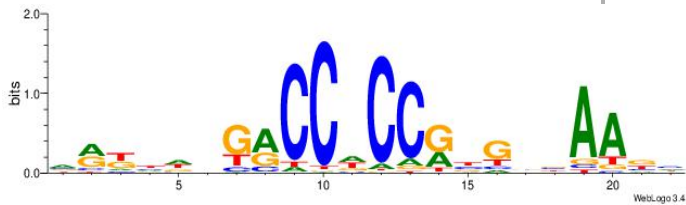
Similarity score: 0.0527075

Alignment:
DVTTVVCVYGGHGGYCHHDMYB
-BAGGYCABHBTGACCKHV---

Original motif
Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif
Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH

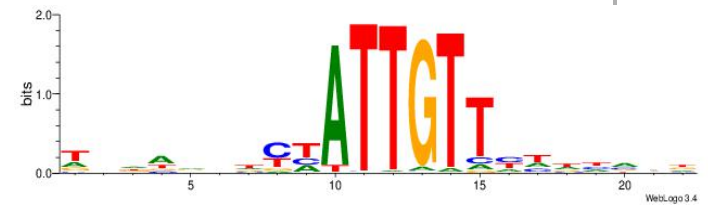
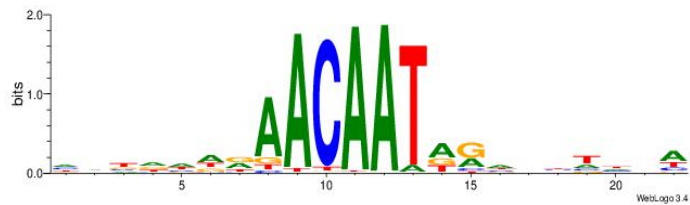


Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 18
Similarity score: 0.0541044

Alignment:
WBHHHHHMDATTGTTHDHDVHH
-BAGGYCABHBTGACCKHV---

Original motif
Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



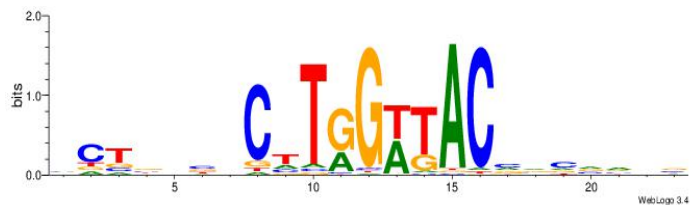
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0541108

Alignment:

VCTBHBVCTTGGWTACVVVVVDB
 --BAGGYCABHBTGACCKHV---

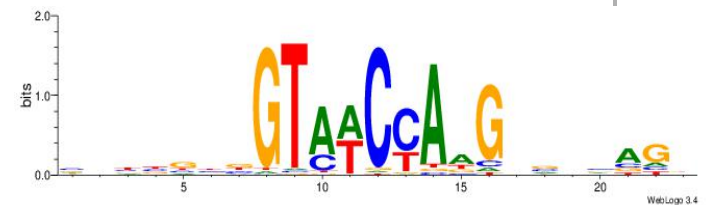
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



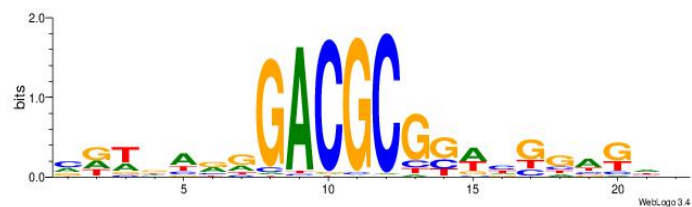
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.0543733

Alignment:

VDWDARRGACGCGGWHGGAKHV
 ---VHRGGTCABDBTGMCCTB-

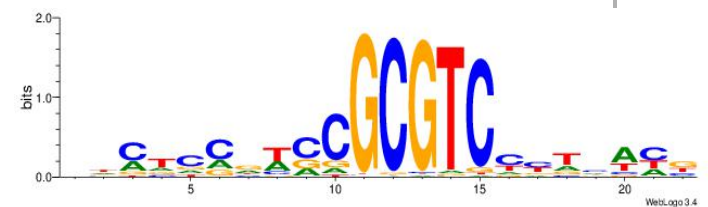
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV

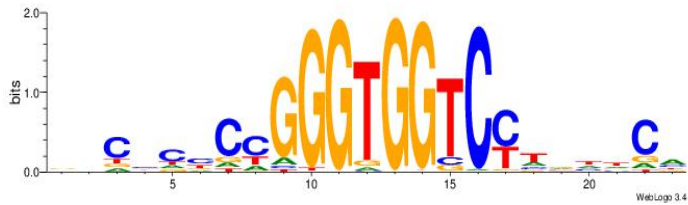


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5

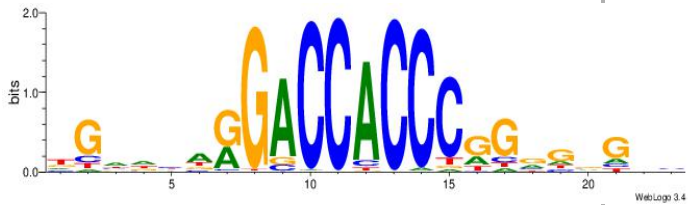
Number of overlap: 18
Similarity score: 0.0548087

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
-BAGGYCABHBTGACCKHV-----

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif
Consensus sequence: HGDHVKHKGACCACCCGGBGBGDB

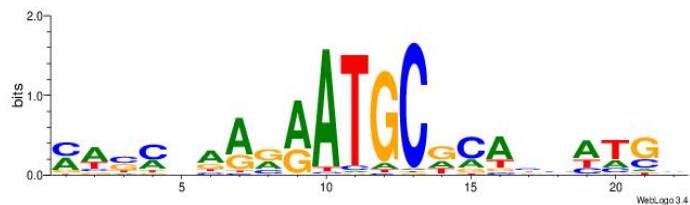


Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 18
Similarity score: 0.055453

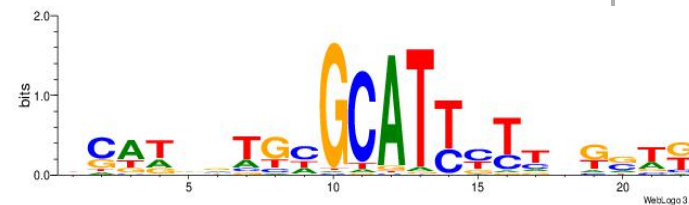
Alignment:
DCATDBTGHGCATKMTTBRSWR
----VHRGGTCABDBTGMCCCTB

Original motif Reverse complement motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



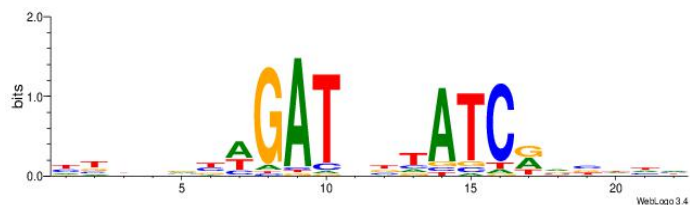
Motif ID: [UP00032](#)
Motif name: Gata3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 18
Similarity score: 0.0566426

Alignment:

HBHDVBWGATHBTATCRVBHHH
-VHRGGTCABDBTGMCCCTB---

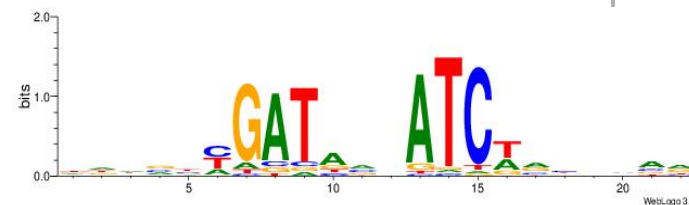
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

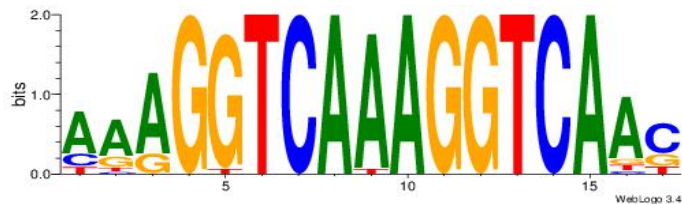
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Dataset #: 1 **Motif ID: 10** **Motif name: NR1H2RXRA**

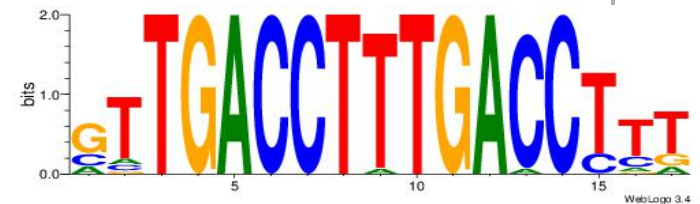
Original motif

Consensus sequence: AAAGGTCAAAGGTCAAC



Reverse complement motif

Consensus sequence: GTTGACCTTTGACCTTT



Best Matches for Motif ID 10 (Highest to Lowest)

Motif ID:	UP00539
Motif name:	Gli2_v015681_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0538452

Alignment:

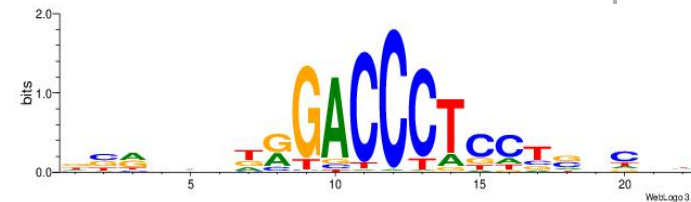
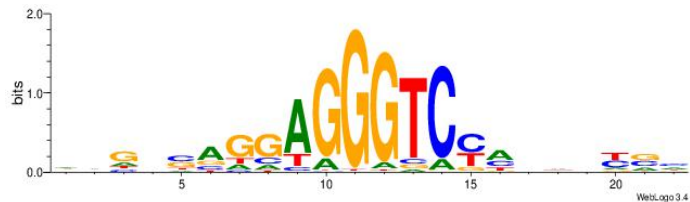
```
DVMHHDHKGACCCTCCTSVCBH
-----GTTGACCTTTGACCTTT
```

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

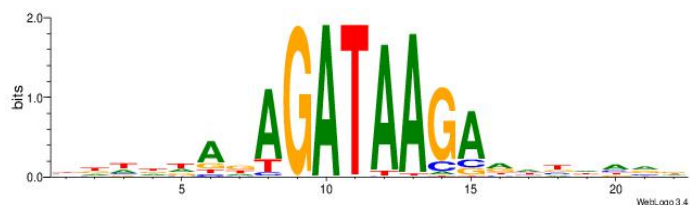


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0545098

Alignment:
 BDHDDADAGATAAGADHBDHVD
 -----AAAGGTCAAAGGTCAAC

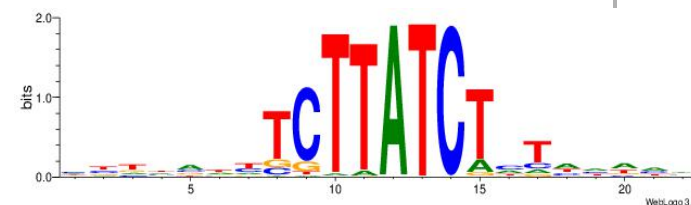
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00067](#)

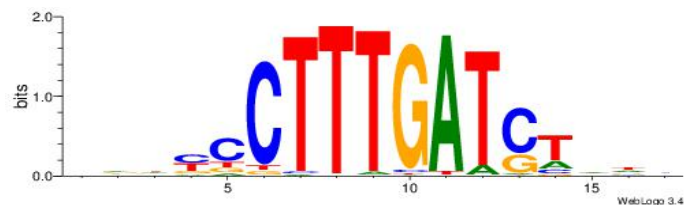
Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.521114

Alignment:

VDDAGATCAAAGGKDDD-
 -AAAGGTCAAAGGTCAAC

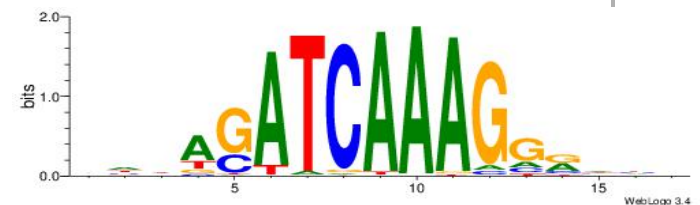
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



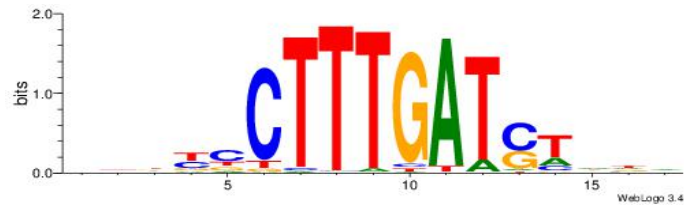
Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.527825

Alignment:

BDDASATCAAAGGMDDD-
-GTTGACCTTTGACCTTT

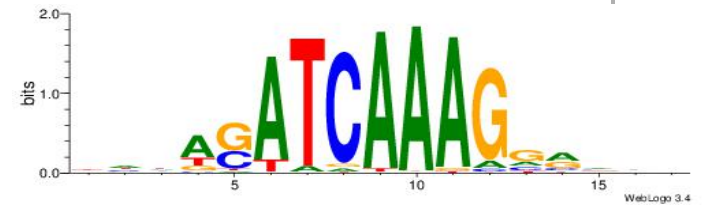
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



Motif ID:	UP00054
Motif name:	Tcf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.531154

Alignment:

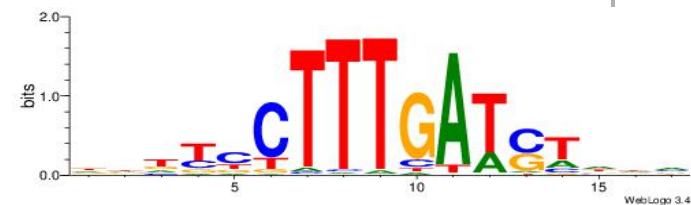
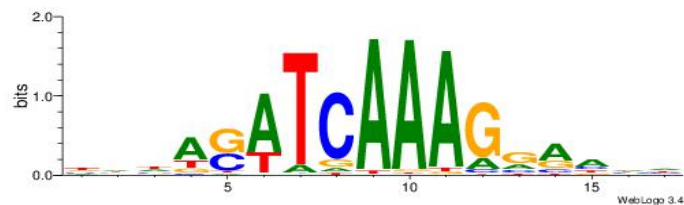
-BHHASATCAAAGGAHHH
AAAGGTCAAAGGTCAAC-

Original motif

Consensus sequence: BHHASATCAAAGGAHHH

Reverse complement motif

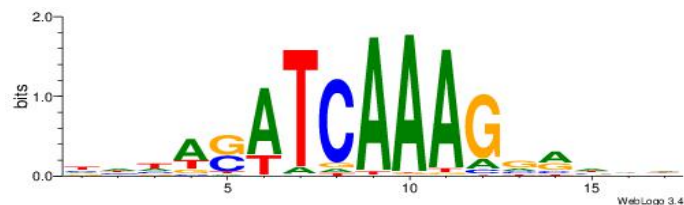
Consensus sequence: HHHTCCTTTGATSTHHV



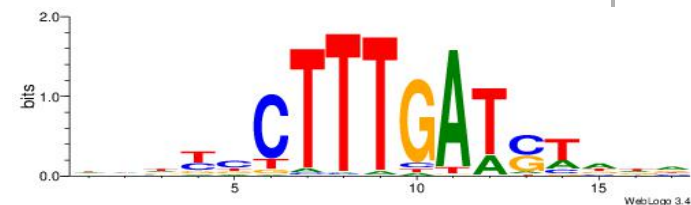
Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.531876

Alignment:
 -HHHASATCAAAGVRHHH
 AAAGGTCAAAGGTCAAC-

Original motif
 Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif
 Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00030](#)
 Motif name: Sox11_primary

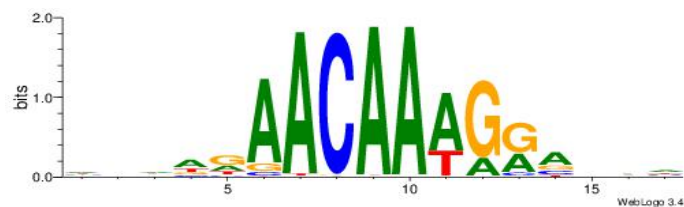
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.544403

Alignment:

HBDDRAACAAAGRABHH-
 -AAAGGTCAAAGGTCAAC

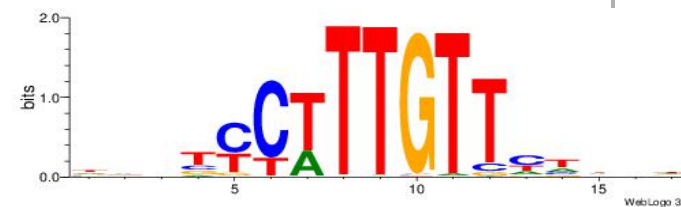
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



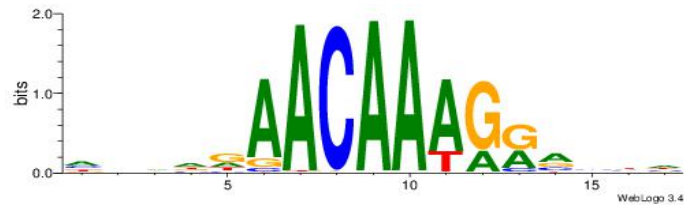
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.544565

Alignment:

-HHBBMCTTTGTTTHDDDBH
GTTGACCTTTGACCTTT-

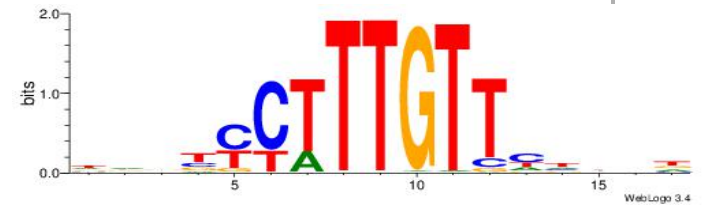
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDDBH



Motif ID:	UP00019
Motif name:	Zbtb12_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.550511

Alignment:

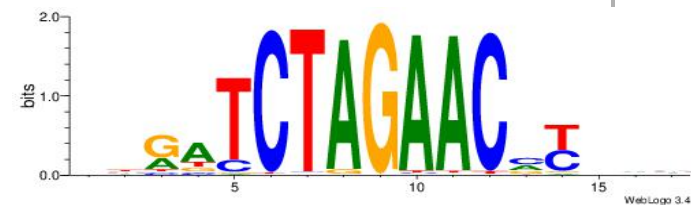
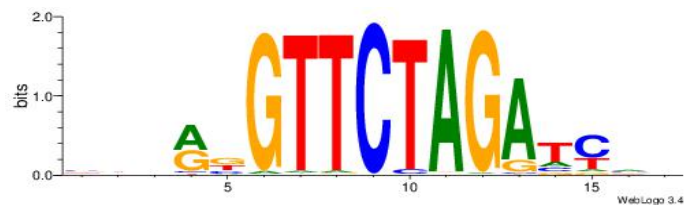
-BBGATCTAGAACBKHDB
GTTGACCTTTGACCTTT-

Original motif

Consensus sequence: BDHRBGTCTAGATCVB

Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



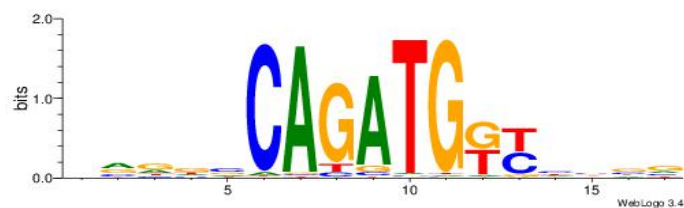
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.552064

Alignment:

-HVDDVCAGATGKYHBBV
 AAAGGTCAAAGGTCAAC-

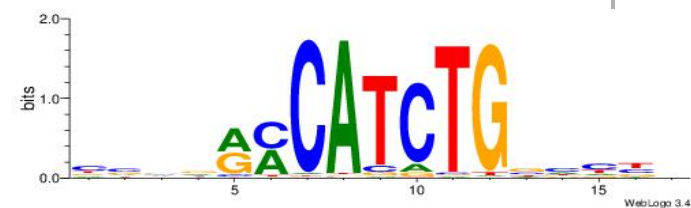
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



Dataset #: 1 **Motif ID: 11** **Motif name: NR4A2**

Consensus sequence: AAGGTCAC



Consensus sequence: GTGACCTT



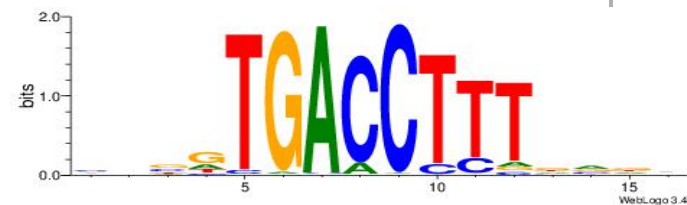
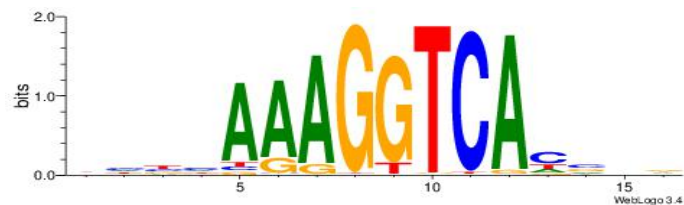
Motif ID:	UP00048
Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

HHVGTGACCTTTDVDD

---GTGACCTT-----

Consensus sequence: DHBHAAAGGTCACVHD

Consensus sequence: HHVGTGACCTTTDVDD

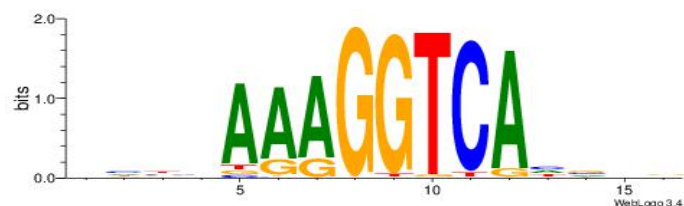


Motif ID: [UP00009](#)
 Motif name: Nr2f2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0074527

Alignment:
 BHVDTGACCTTTDVDD
 ---GTGACCTT-----

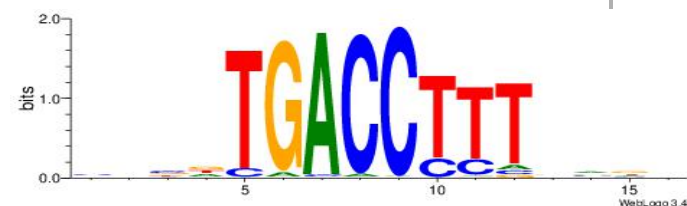
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



Motif ID: [UP00079](#)

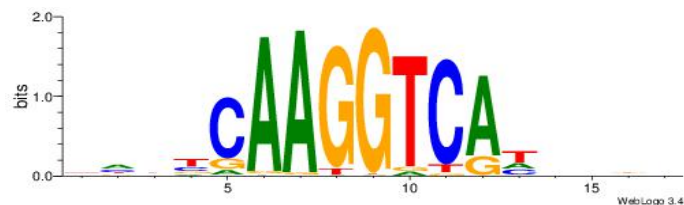
Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.01542

Alignment:

DHDBCAAGGTCAHVBDH
 -----AAGGTCAC-----

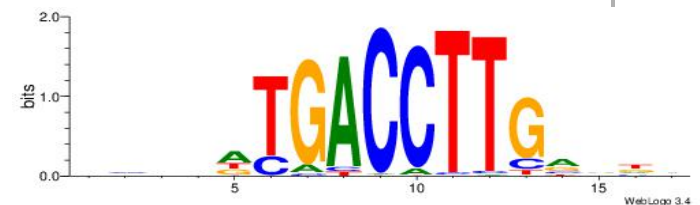
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8

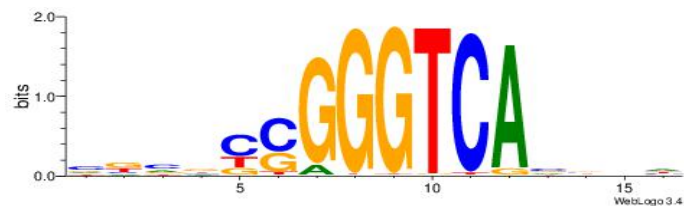
Similarity score: 0.0395644

Alignment:

VBVBCSGGGTCAVBBH
-----AAGGTCAC---

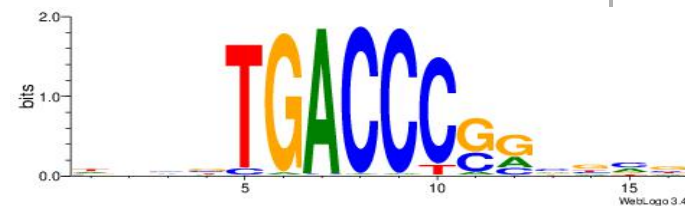
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00082](#)
Motif name: Zfp187_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0407874

Alignment:

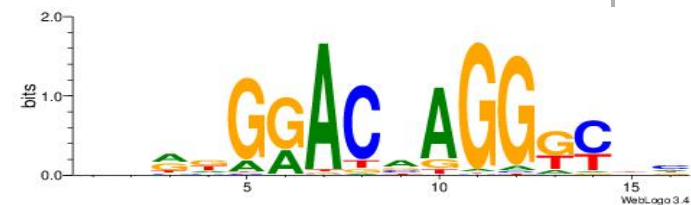
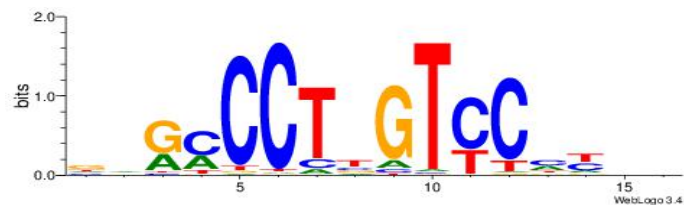
DDGMCCTBGTCCHYHV
GTGACCTT-----

Original motif

Consensus sequence: DDGMCCTBGTCCHYHV

Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



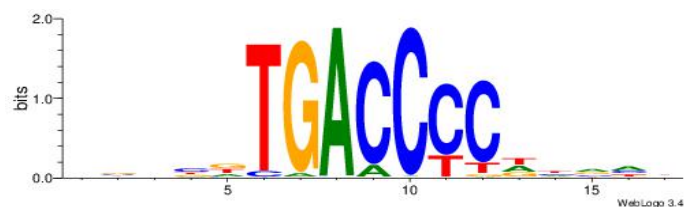
Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0422933

Alignment:

DBHBDTGACCCCDHVHB
 ----GTGACCTT-----

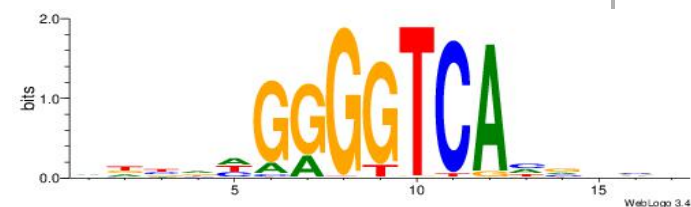
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



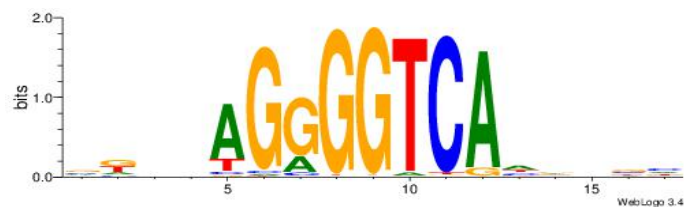
Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0447444

Alignment:

VKBBAGGGGTCAHDBBH
 -----AAGGTCAC-----

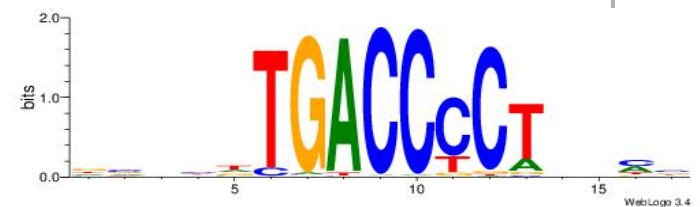
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00066](#)
 Motif name: Hnf4a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6

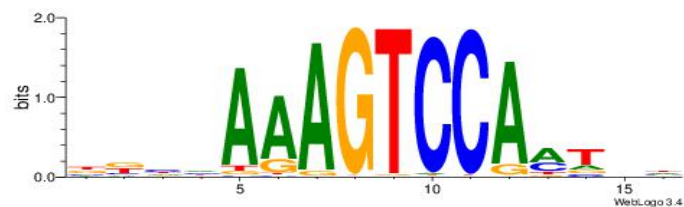
Number of overlap: 8
Similarity score: 0.0481418

Alignment:

BBHHAAAGTCCAMTHH
-----AAGGTCAC---

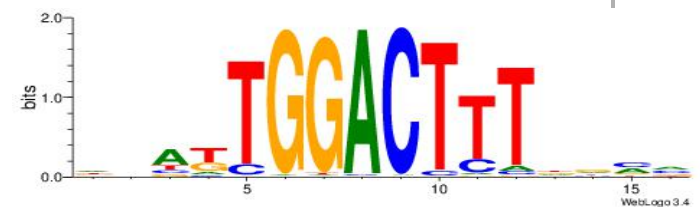
Original motif

Consensus sequence: BBHHAAAGTCCAMTHH



Reverse complement motif

Consensus sequence: HHAYTGGACTTTTHDBV



Motif ID: [UP00197](#)
Motif name: Hoxc9
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0497679

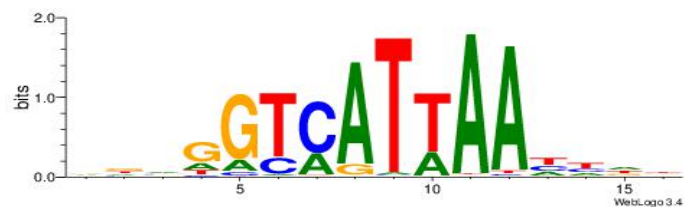
Alignment:

VDHHTTAATGACCBHV
-----GTGACCTT-

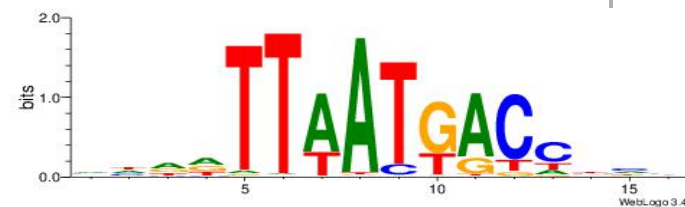
Original motif

Reverse complement motif

Consensus sequence: VDVGGTCATTAAHHDB



Consensus sequence: VDHHTTAATGACCBHV



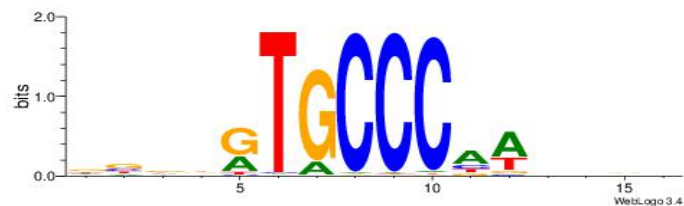
Motif ID: [UP00035](#)
Motif name: Hic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0500062

Alignment:

DBDDRTGCCCCAWDHDV
-----GTGACCTT-----

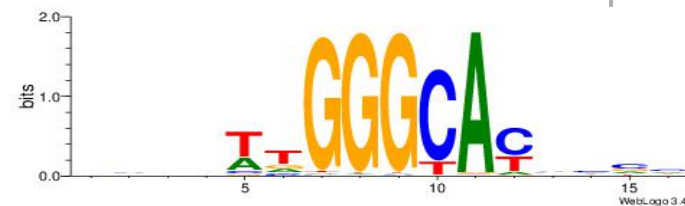
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Dataset #: 1 **Motif ID: 12** **Motif name: RORA_1**

Original motif

Consensus sequence: AWVDAGGTCA



Reverse complement motif

Consensus sequence: TGACCTDVWT



Best Matches for Motif ID 12 (Highest to Lowest)

Motif ID:	UP00009
Motif name:	Nr2f2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0154749

Alignment:

DHBHAAAGGTCAHVHB

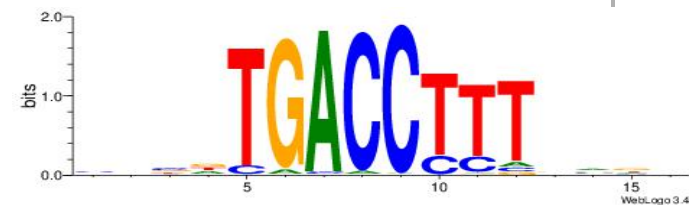
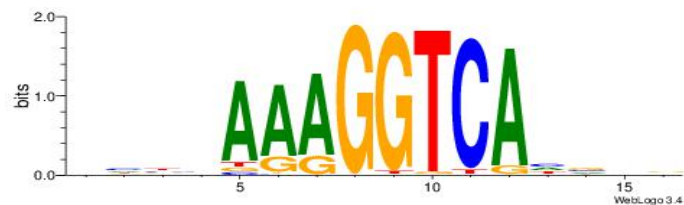
--AWVDAGGTCA----

Original motif

Consensus sequence: DHBHAAAGGTCAHVHB

Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD

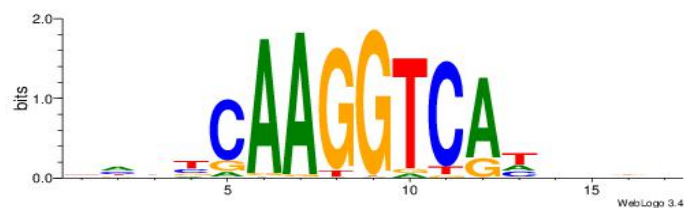


Motif ID: [UP00079](#)
 Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0176661

Alignment:
 HHBVHTGACCTTGVDHD
 -----TGACCTDVWT--

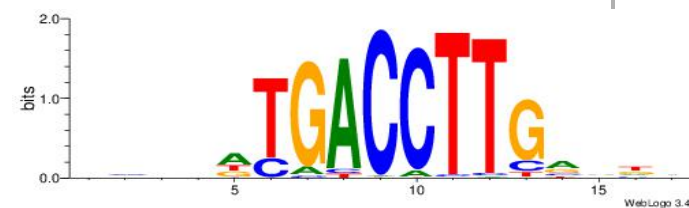
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID: [UP00048](#)

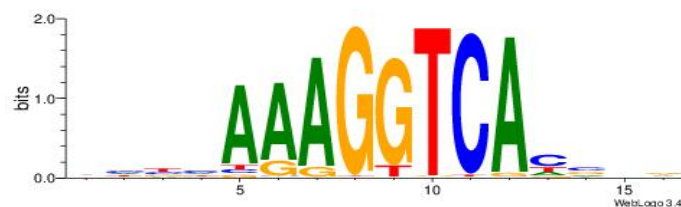
Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0189599

Alignment:

```
DHBHAAAGGTCACVHD
--AWVDAGGTCA----
```

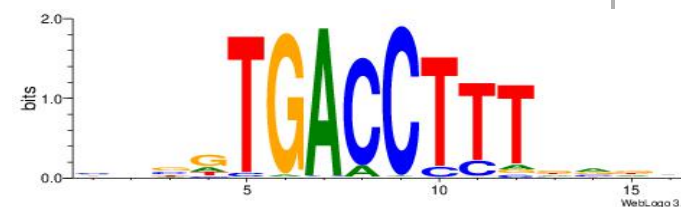
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



Motif ID:	UP00009
Motif name:	Nr2f2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0331999

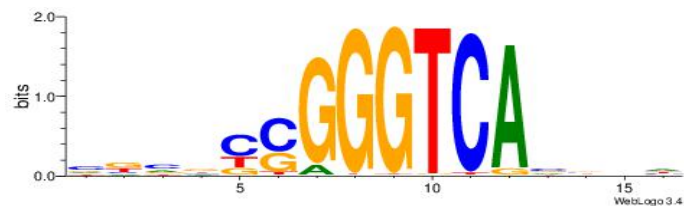
Alignment:

VBVBCSGGGTCAVBBH

--AWVDAGGTCA----

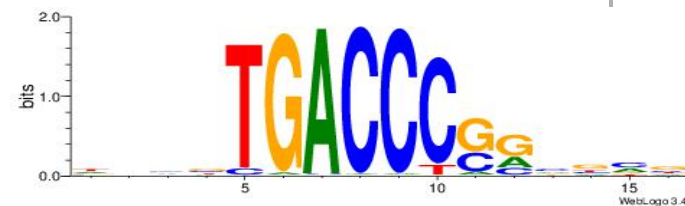
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00066](#)
Motif name: Hnf4a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0341771

Alignment:

BDBVMGGGGTCAABHDV

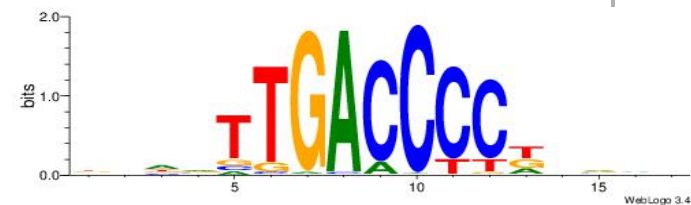
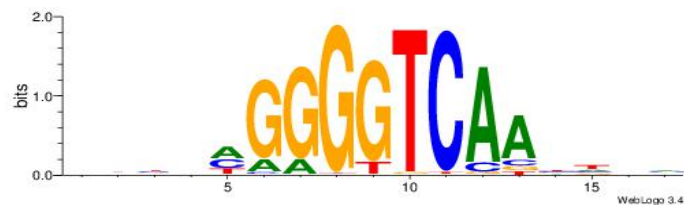
--AWVDAGGTCA-----

Original motif

Consensus sequence: BDBVMGGGGTCAABHDV

Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD



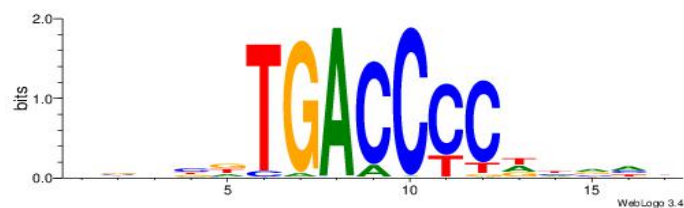
Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0363566

Alignment:

DBHBDTGACCCCDHVHB
 -----TGACCTDVWT--

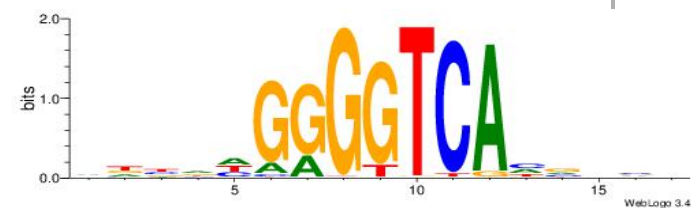
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



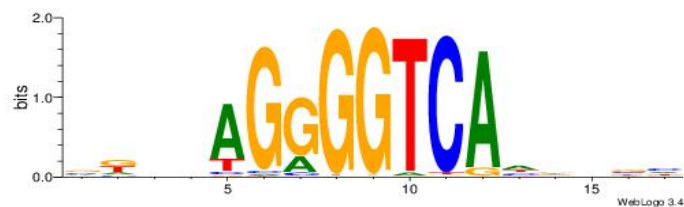
Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0391284

Alignment:

VKBBAGGGGTCAHDBBH
 --AWVDAGGTCA-----

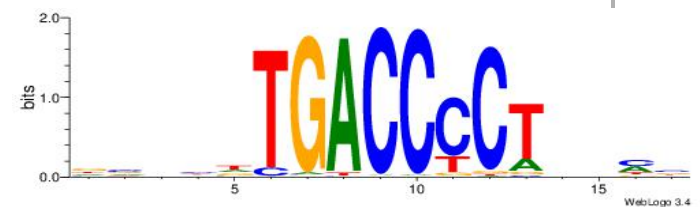
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00035](#)
 Motif name: Hic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2

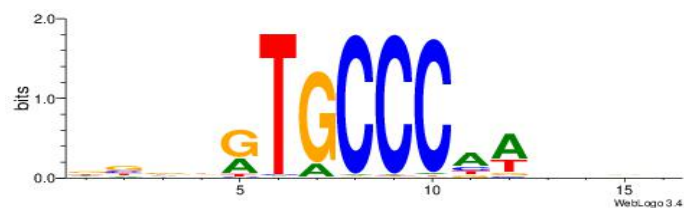
Number of overlap: 10
Similarity score: 0.0444205

Alignment:

DBDDRTGCCCCAWDHDV
-----TGACCTDVWT--

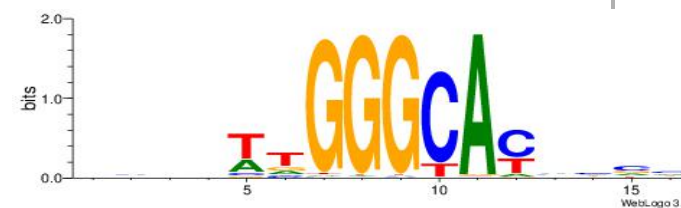
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0461434

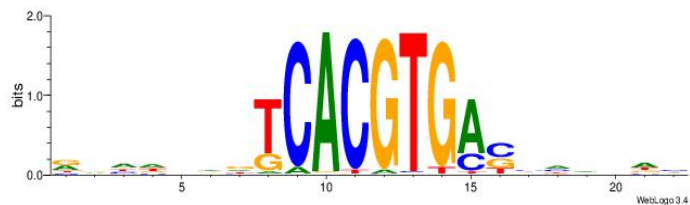
Alignment:

DDHBHBSTCACGTGAHBBDHBM
AWVDAGGTCA-----

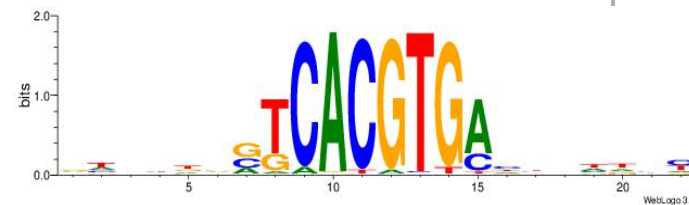
Original motif

Reverse complement motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



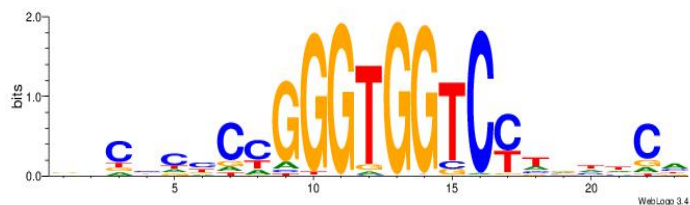
Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0489571

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
-----TGACCTDVWT--

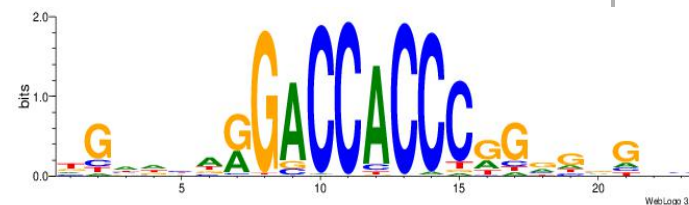
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Dataset #: 1 **Motif ID: 13** **Motif name: MIZF**

Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



Best Matches for Motif ID 13 (Highest to Lowest)

Motif ID:	UP00419
Motif name:	Spic
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:

DWACTTCCRCTTTB

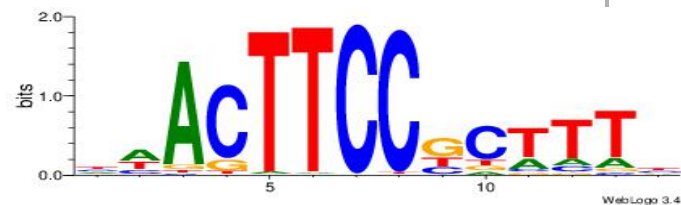
BAACGTCCGC-----

Original motif

Consensus sequence: VAAAGMGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



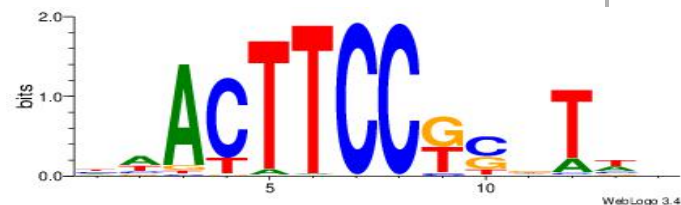
Motif ID: [UP00409](#)
 Motif name: Elf5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.00379999

Alignment:
 BWAHSMGGAAGTWD
 BAACGTCCGC-----

Original motif
 Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif
 Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)
 Motif name: Elf4

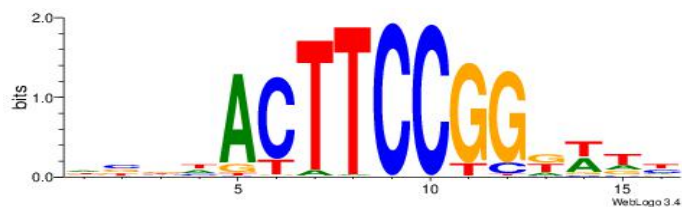
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWITH
 --BAACGTCCGC----

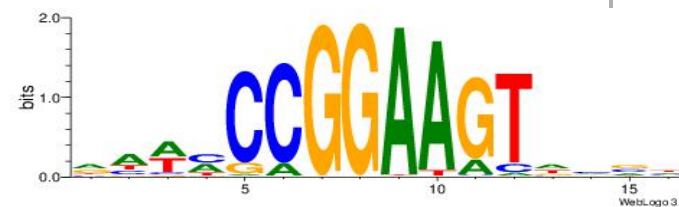
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00404](#)
 Motif name: Elf2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0128348

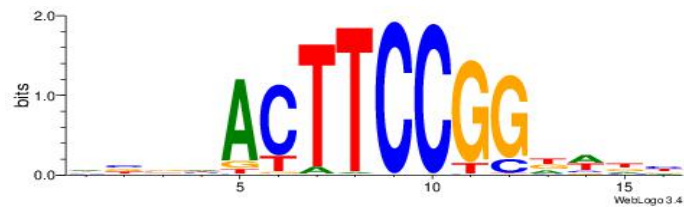
Alignment:

DBBHACTTCCGGDWDB

--BAACGTCCGC----

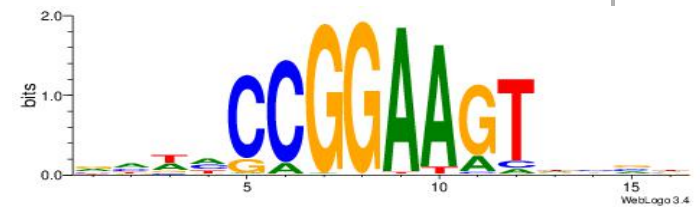
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Motif ID:

[UP00085](#)

Motif name:

Sfpi1_primary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Backward

Position number:

5

Number of overlap:

10

Similarity score:

0.0141516

Alignment:

HDACTTCCBCWTDV

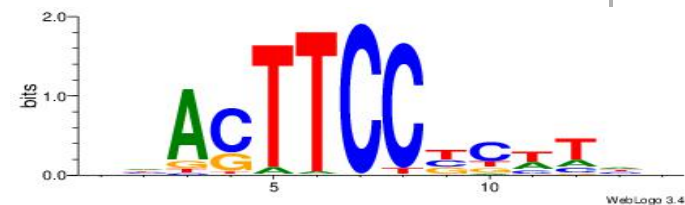
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV

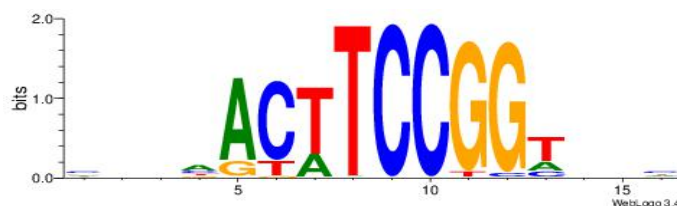


Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0144665

Alignment:
 DVHACCGGAAGTHDDV
 ----GCGGACGTTV--

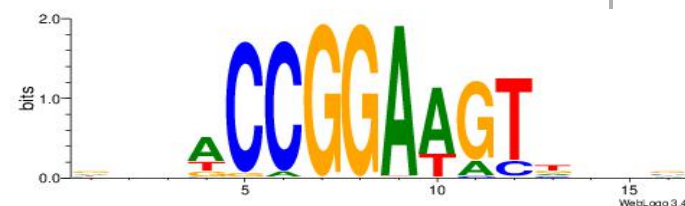
Original motif

Consensus sequence: VDHHA^{CT}TC^{CG}GTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



Motif ID: [UP00412](#)

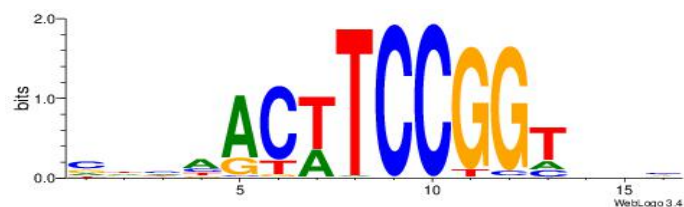
Motif name: Etv5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0155825

Alignment:

DHHACCGAWGTTDDV
 ----GCGGACGTTV--

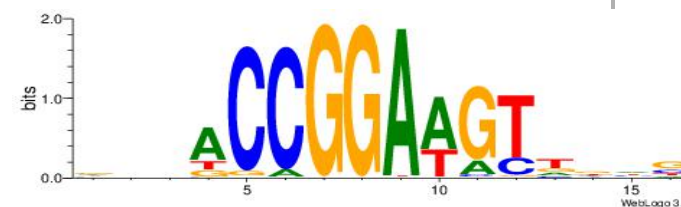
Original motif

Consensus sequence: VDHAACWTCCGGTHHH



Reverse complement motif

Consensus sequence: DHHACCGAWGTTDDV

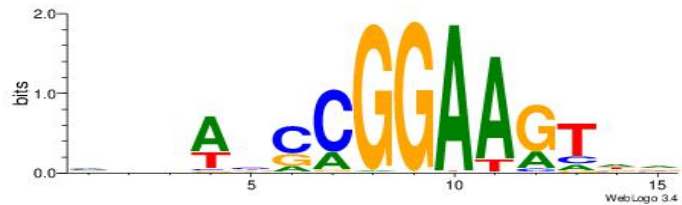


Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10

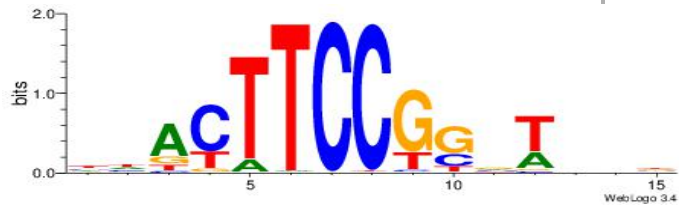
Similarity score: 0.0162018

Alignment:
VBDABCCGGAAGTDD
-----GCGGACGTTV

Original motif
Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif
Consensus sequence: DDACTTCCGGBTHBB

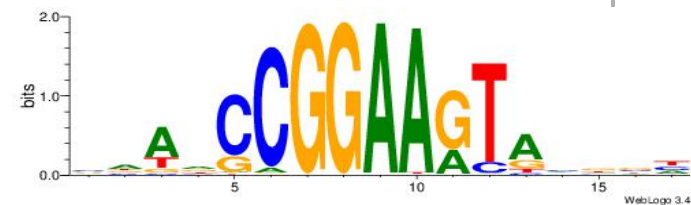
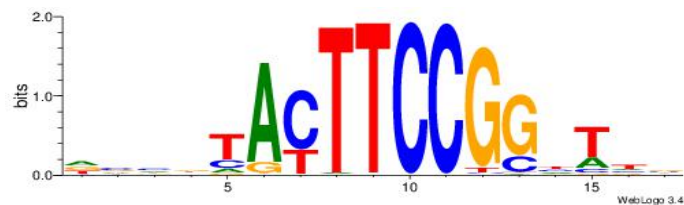


Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0171234

Alignment:
DVHBTACTTCCGGHTHB
---BAACGTCCGC----

Original motif
Consensus sequence: DVHBTACTTCCGGHTHB

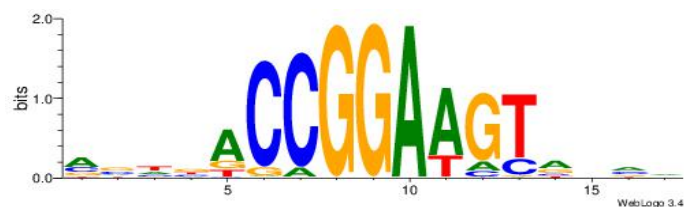
Reverse complement motif
Consensus sequence: BHAHCCGGAAGTABDVD



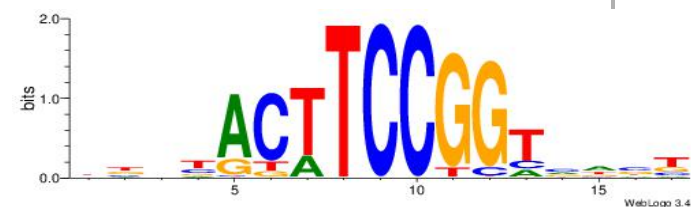
Motif ID: [UP00421](#)
 Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0184147

Alignment:
 MVHBACCGGAAGTVDVH
 -----GCGGACGTTV--

Original motif
 Consensus sequence: MVHBACCGGAAGTVDVH



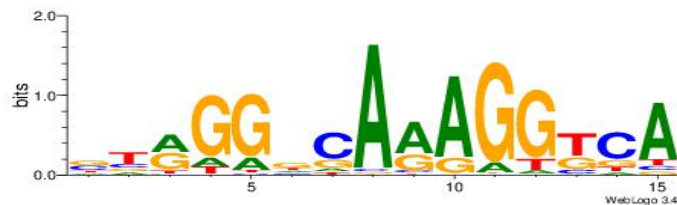
Reverse complement motif
 Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 1 **Motif ID: 14** **Motif name: PPARGRXRA**

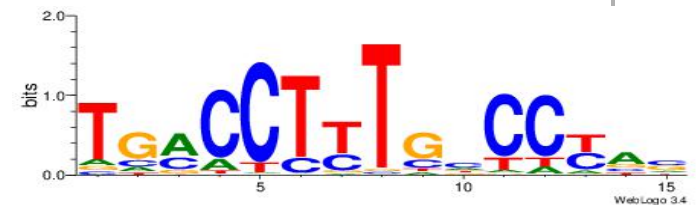
Original motif

Consensus sequence: BTRGGDCARAGGKCA



Reverse complement motif

Consensus sequence: TGRCCTKTGHCKAB



Best Matches for Motif ID 14 (Highest to Lowest)

Motif ID:	UP00067
Motif name:	Lef1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0304954

Alignment:

VDDAGATCAAAGGKDDD

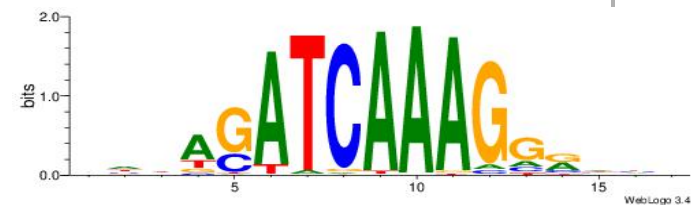
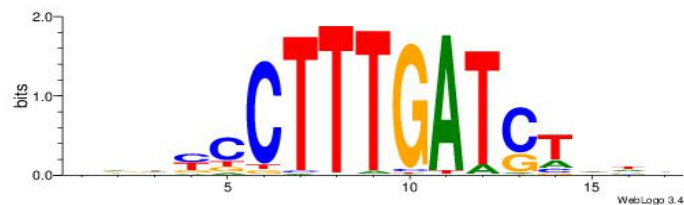
–BTRGGDCARAGGKCA–

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

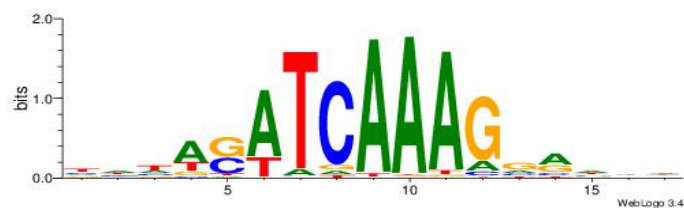


Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0319475

Alignment:
 HHHASATCAAAGVRHHH
 -BTRGGDCARAGGKCA-

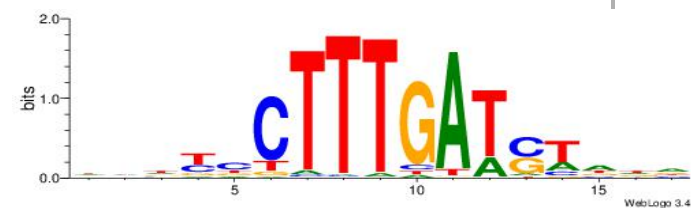
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00054](#)

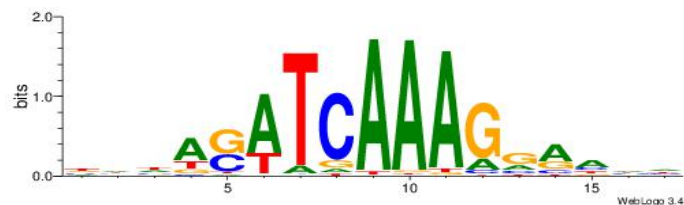
Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.032779

Alignment:

BHHASATCAAAGGAHHH
 -BTRGGDCARAGGKCA-

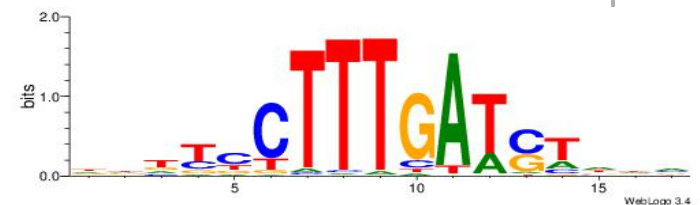
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15

Similarity score: 0.0334185

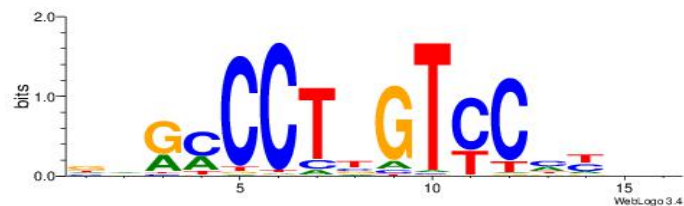
Alignment:

VHMDGGACVAGGRCDH

BTRGGDCARAGGKCA-

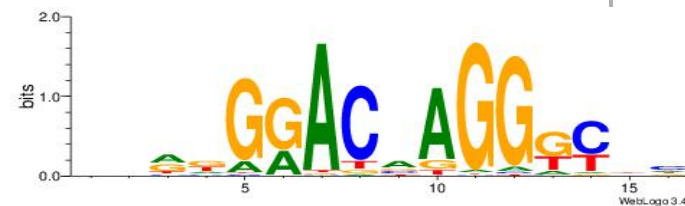
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0352539

Alignment:

HBDDDAACAAAGRVBHH

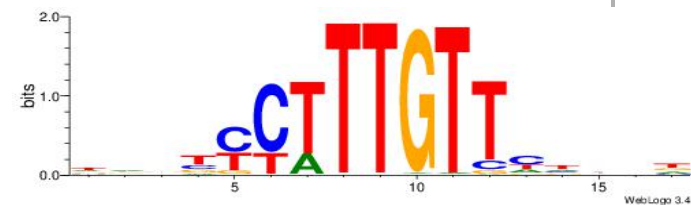
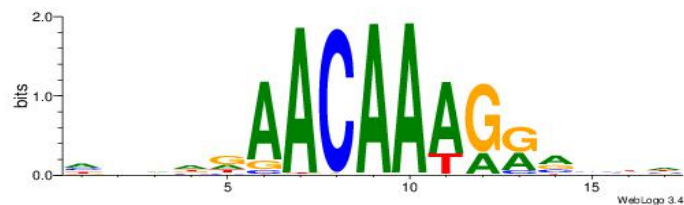
-BTRGGDCARAGGKCA-

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



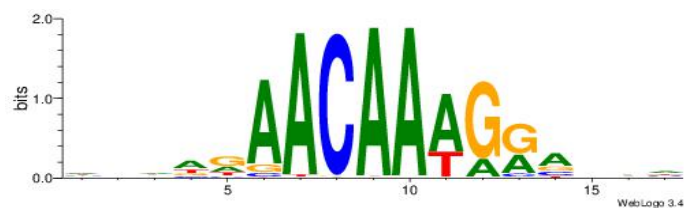
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0358782

Alignment:

HBDDRAACAAAGRABHH
 -BTRGGDCARAGGKCA-

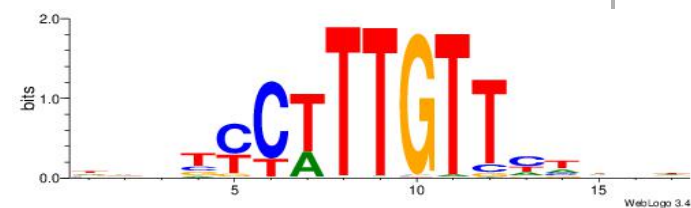
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



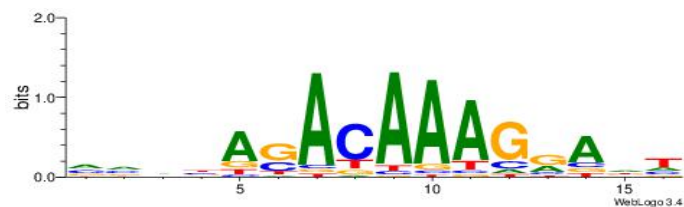
Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0374729

Alignment:

HDTMCTTTGTSTVDBB
 TGRCCCTKTGHCKAB-

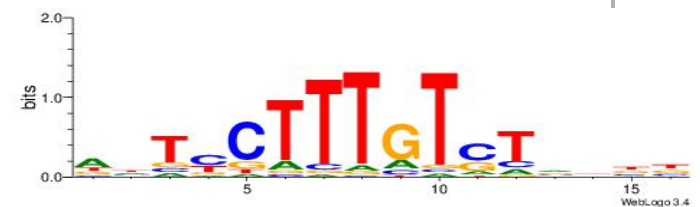
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2

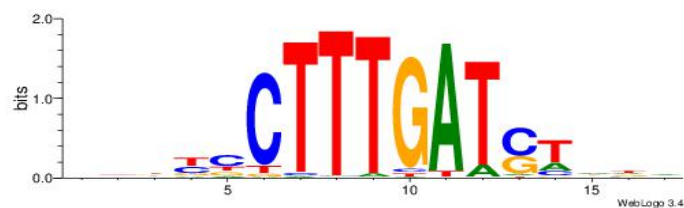
Number of overlap: 15
Similarity score: 0.0379757

Alignment:

BDDASATCAAAGGMDDD
-BTRGGDCARAGGKCA-

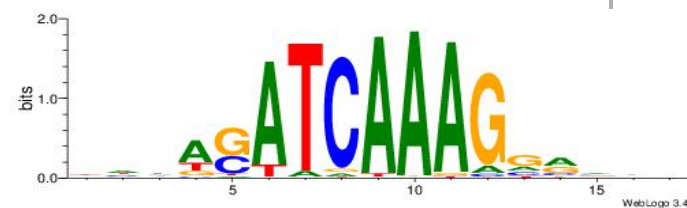
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0382733

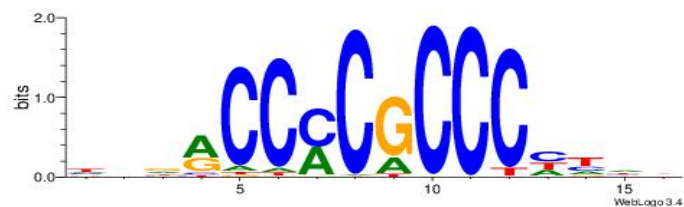
Alignment:

DHHDGGGCGRGGKHBH
BTRGGDCARAGGKCA-

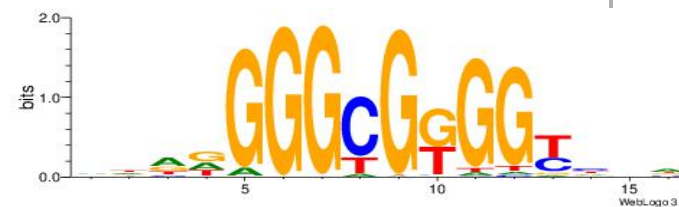
Original motif

Reverse complement motif

Consensus sequence: HBDRCMCGCCCHHHD



Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00055](#)
Motif name: Hbp1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0397168

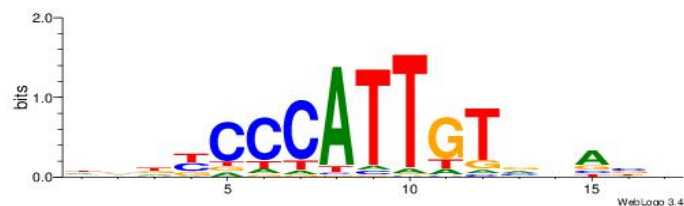
Alignment:

DDDYCCCATTGTVHABH

BTRGGDCARAGGKCA--

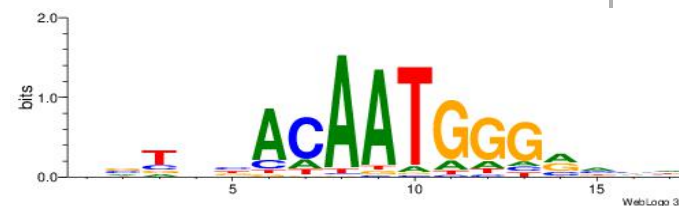
Original motif

Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif

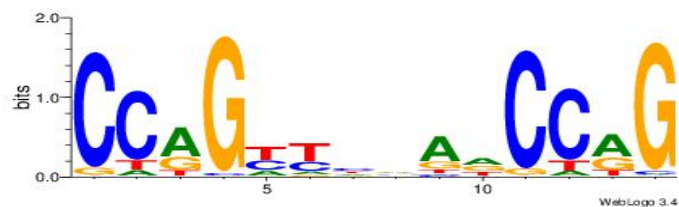
Consensus sequence: HBTHVACAATGGGMDHD



Dataset #: 1 **Motif ID: 15** **Motif name: Tcfcp2l1**

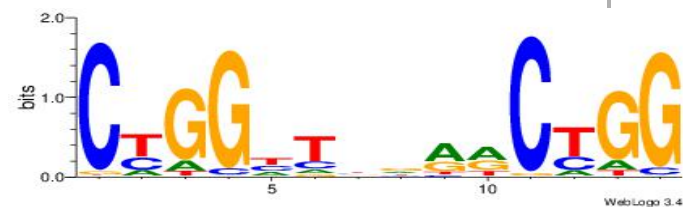
Original motif

Consensus sequence: CCAGYYHVADCCRG



Reverse complement motif

Consensus sequence: CKGGDTBDMMCTGG



Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID:	UP00032
Motif name:	Gata3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0527249

Alignment:

HBHDVBWGATHBTATCRVBHHH

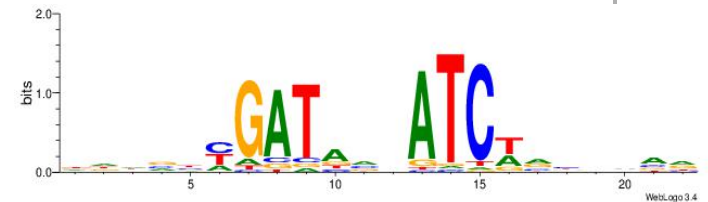
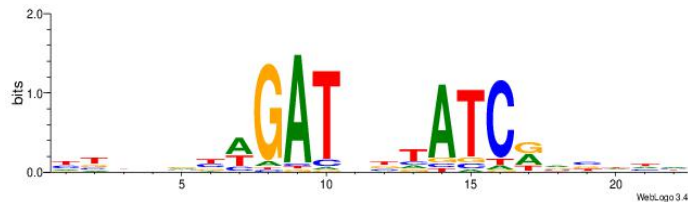
----CCAGYYHVADCCRG----

Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

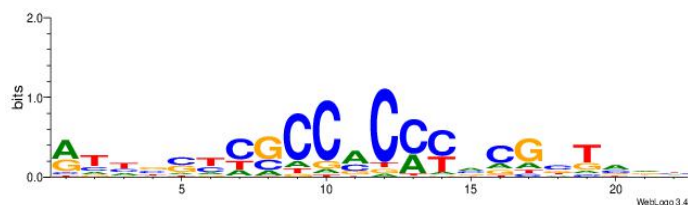
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



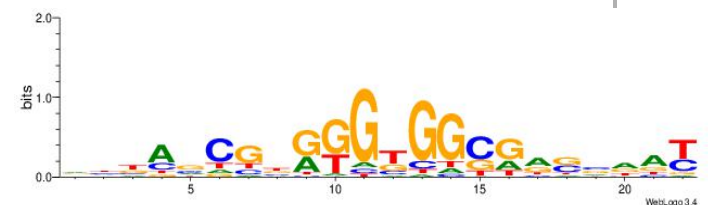
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0551691

Alignment:
 RTHBSYCGCCMCMYVCGBTVDH
 -----CCAGYYHVADCCRG

Original motif
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
 Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



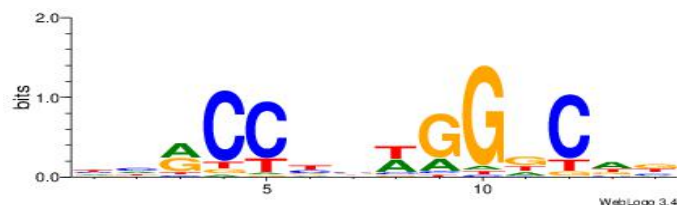
Motif ID: [UP00005](#)

Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0560983

Alignment:
 HHRCCBBWGGDCDB
 CCAGYYHVADCCRG

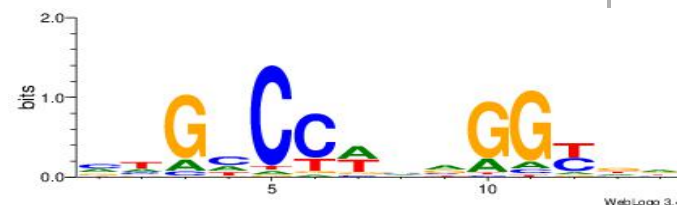
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



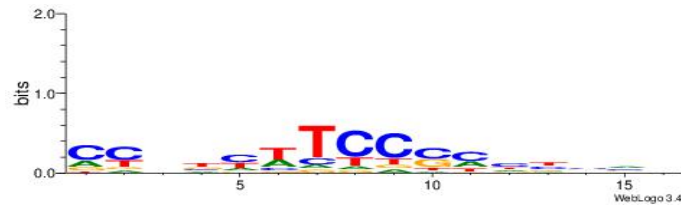
Motif ID: [UP00013](#)
 Motif name: Gabpa_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0566467

Alignment:

CYDBYWTCCSMHBVVH
CCAGYYHVADCCRG--

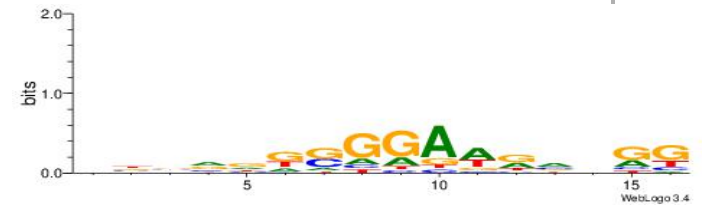
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVDRSGGAWKVHKG



Motif ID:	UP00075
Motif name:	Sox15_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0577636

Alignment:

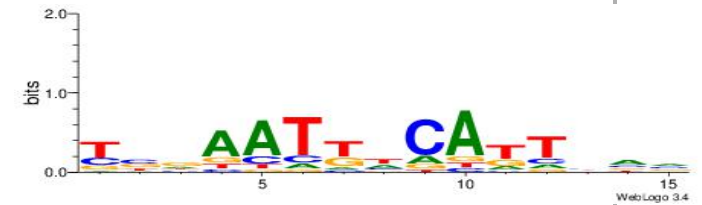
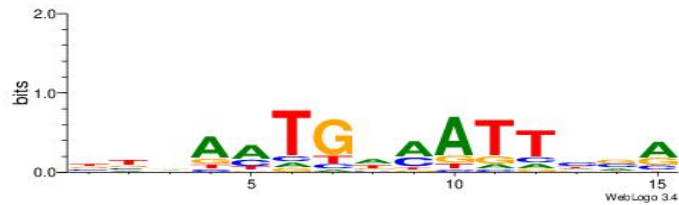
TVDAATYDCATTVVV
-CCAGYYHVADCCRG

Original motif

Consensus sequence: BBVAATGDMATTHVA

Reverse complement motif

Consensus sequence: TVDAATYDCATTVVV

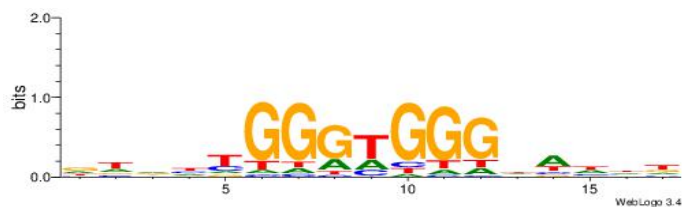


Motif ID: [UP00096](#)
 Motif name: Sox13_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0587893

Alignment:
 DDDHTGGGTGGGHAHHD
 ---CKGGDTBDMMCTGG

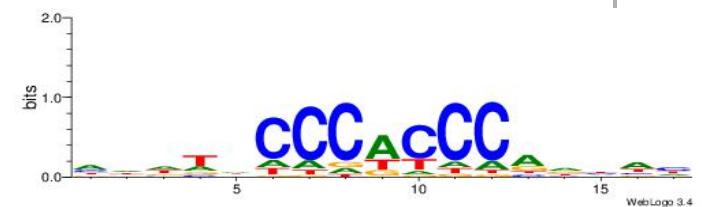
Original motif

Consensus sequence: DDDHTGGGTGGGHAHHD



Reverse complement motif

Consensus sequence: DHHTHCCCACCCAHHDDH



Motif ID: [UP00034](#)

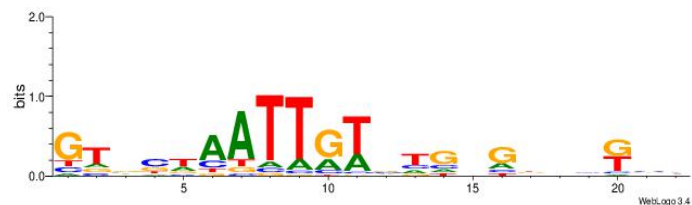
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0590238

Alignment:

VVYDDDCHCAVACAATTDBVAC
 --CCAGYYHVADCCRG-----

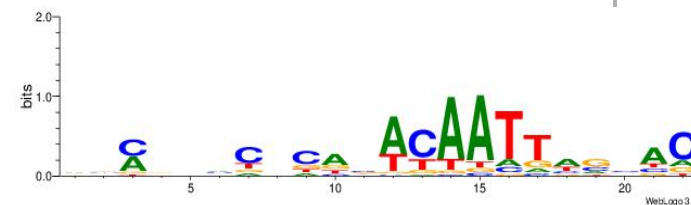
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

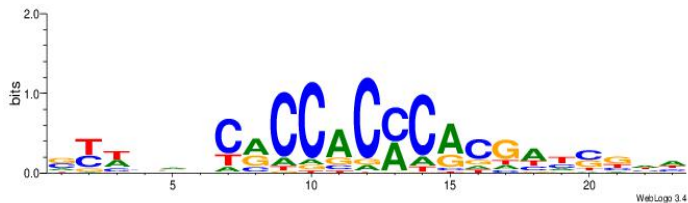


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 14

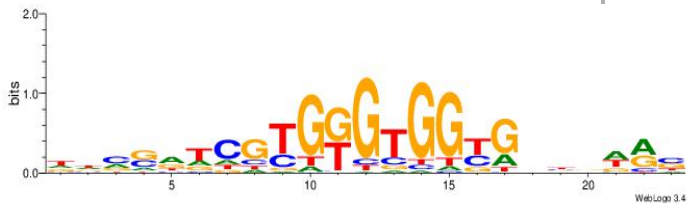
Similarity score: 0.0596904

Alignment:
VYWVVHCRCCACMCACGAHSBHH
-----CCAGYYHVADCCRG-

Original motif
Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00538](#)
Motif name: Gli1_v015681_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0597695

Alignment:
BBBDVVRGACCACCCAVGABBAB
-----CCAGYYHVADCCRG

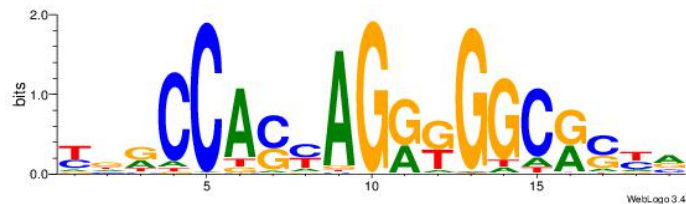
Original motif
Consensus sequence: BBBDVVRGACCACCCAVGABBAB

Reverse complement motif
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

Dataset #: 1 **Motif ID: 16** **Motif name: CTCF**

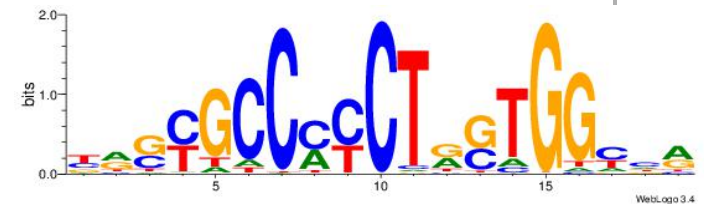
Original motif

Consensus sequence: YDRCCASYAGRKGGCRSYV



Reverse complement motif

Consensus sequence: BMSMGCCYMCTKSTGGMHM



Best Matches for Motif ID 16 (Highest to Lowest)

Motif ID:	UP00400
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0409369

Alignment:

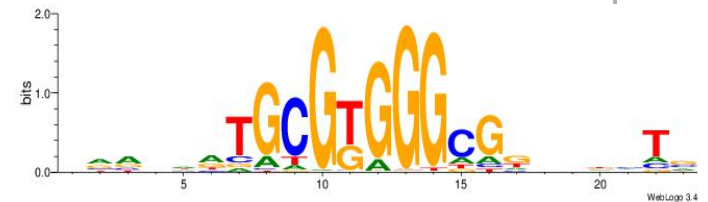
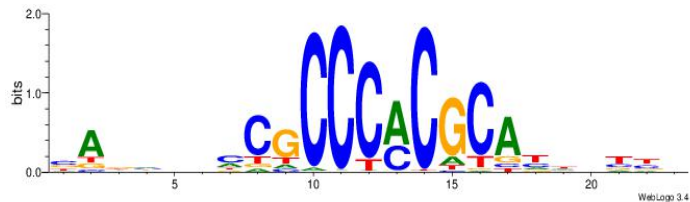
```
VVVDHHTGCGYGGGCGDHHVHHTB
----BMSMGCCYMCTKSTGGMHM
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

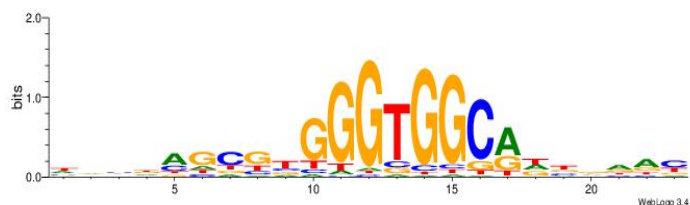
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



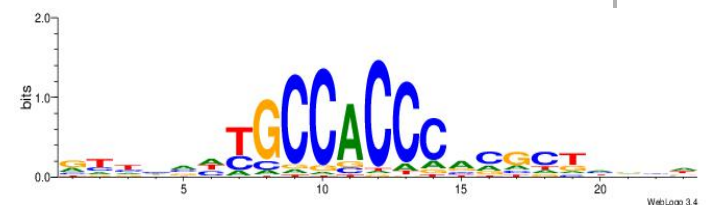
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 19
 Similarity score: 0.0409815

Alignment:
 HVBDAGCGBGGGTGGCRDBDDDB
 -YDRCCASYAGRKGGCRSYV---

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00540](#)

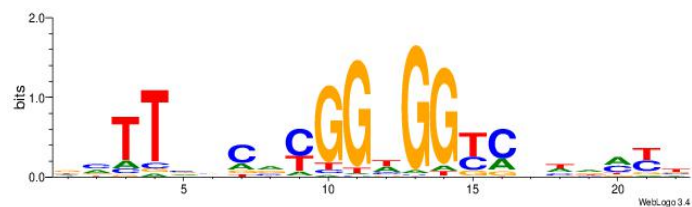
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 19
 Similarity score: 0.0431951

Alignment:

VMYDHDGMCCHCCKBGVVAHVH
 ---BMSMGCCYMCTKSTGGMHM

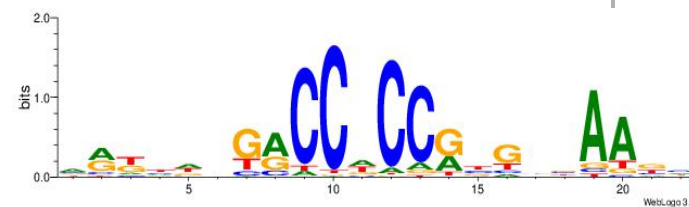
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH



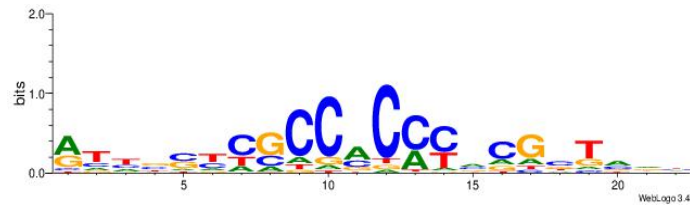
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 19
 Similarity score: 0.0469794

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
---BMSMGCCYMCTKSTGGMHM

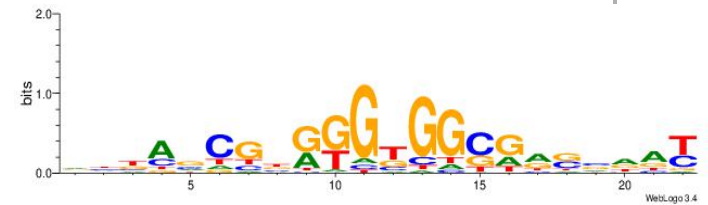
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID:	UP00538
Motif name:	Gli1_v016060_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	19
Similarity score:	0.0482204

Alignment:

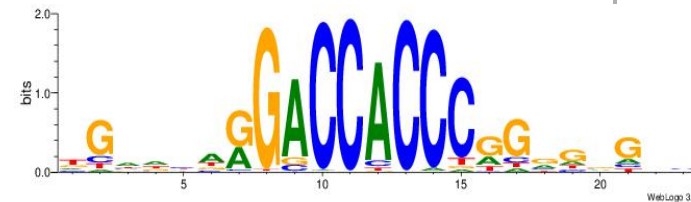
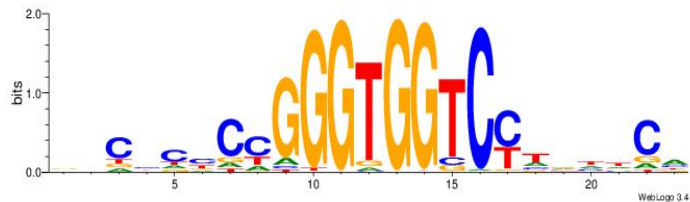
BHCBCBCCGGGTGGTCYHVHDCH
YDRCCASYAGRKGGRSYV----

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

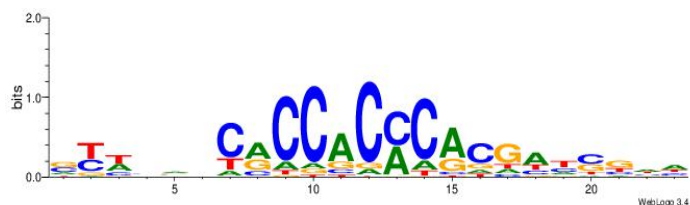
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



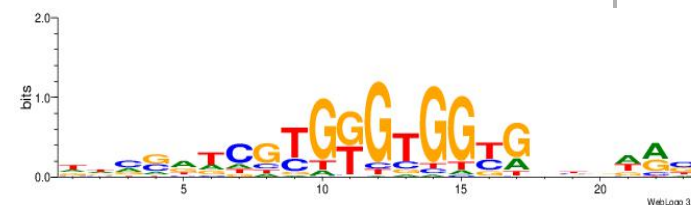
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 19
 Similarity score: 0.0491604

Alignment:
 HHBSHTCGTGRGTGGKGDBVWMV
 -YDRCCASYAGRKGGRSYV---

Original motif
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
 Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00538](#)

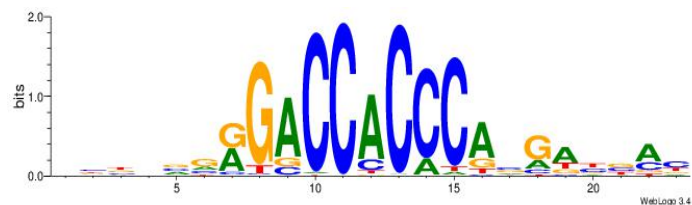
Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 19
 Similarity score: 0.0511535

Alignment:

BBBDVVRGACCACCCAVGABBAB
 ---BMSMGCCYMCTKSTGGMHM-

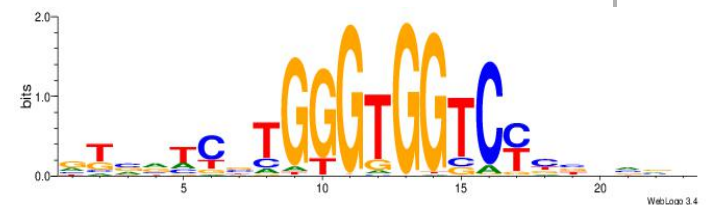
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



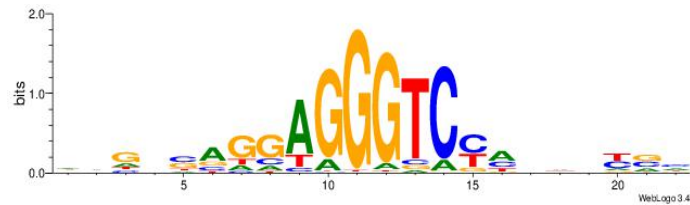
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 19
 Similarity score: 0.0520741

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
YDRCCASYAGRKGGRSYV---

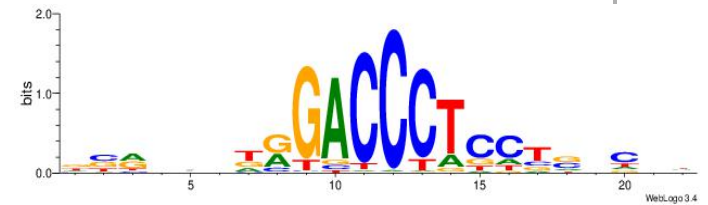
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID:	UP00538
Motif name:	Gli1_v015681_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0532334

Alignment:

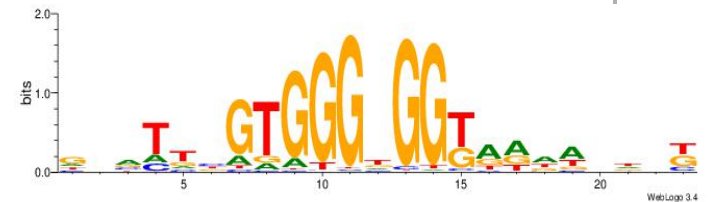
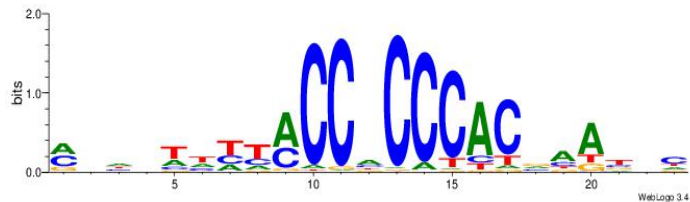
DVVTTVGTGGGHGGYAMHWHHHY
YDRCCASYAGRKGGRSYV----

Original motif

Consensus sequence: MHHHWHYTMCHCCACVAABVH

Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

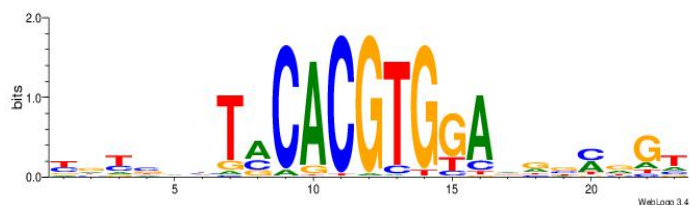


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 19
 Similarity score: 0.0535675

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 --BMSGCCYMCTKSTGGMHM--

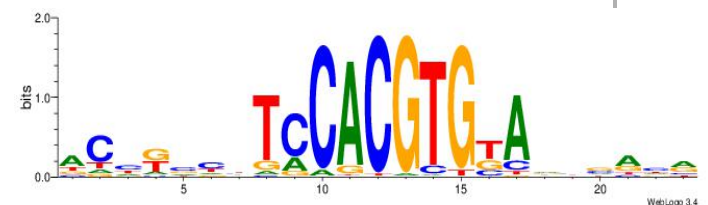
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

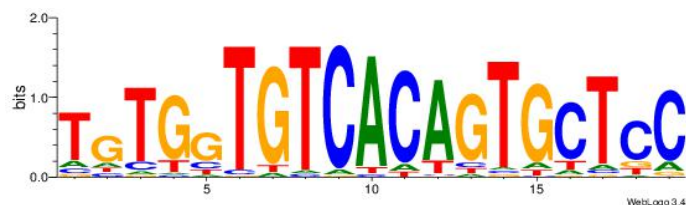
Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Dataset #: 2 Motif ID: 17 Motif name: TgTGgTGTCACAGTGCTCC

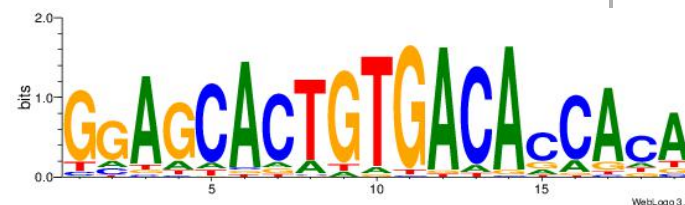
Original motif

Consensus sequence: TGTGGTGTACAGTGCTCC



Reverse complement motif

Consensus sequence: GGAGCACTGTGACACCACA



Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID:	UP00098
Motif name:	Rfx3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.043204

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB

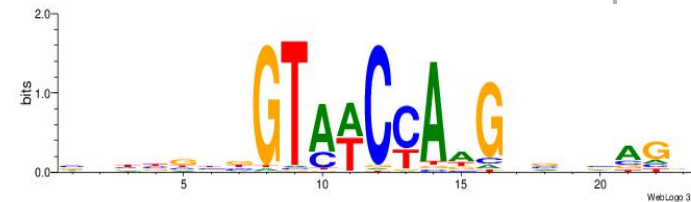
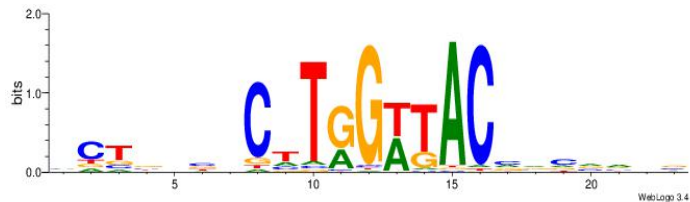
---TGTGGTGTACAGTGCTCC-

Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB

Reverse complement motif

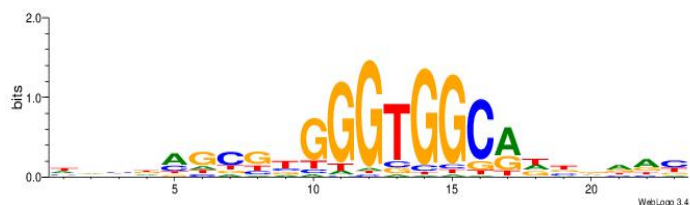
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



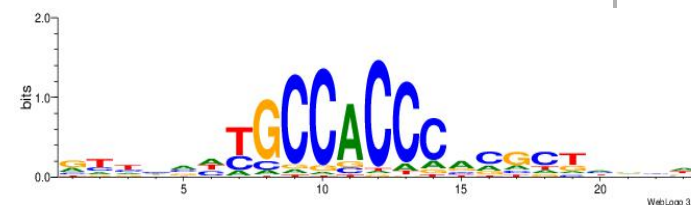
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 18
 Similarity score: 0.553914

Alignment:
 HVBDAGCGBGGGTGGCRDBDDDB-
 -----TGTGGTGTACAGTGCTCC

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00192](#)

Motif name:	Six1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	1.04528

Alignment:

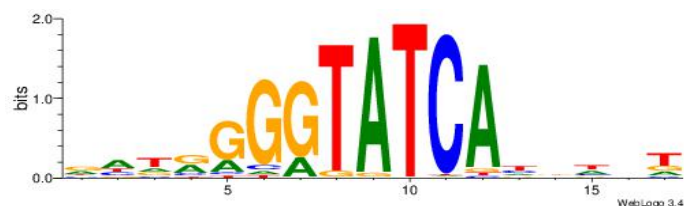
```

AVHDHTGATACCCMDHH--
--GGAGCACTGTGACACCACA

```

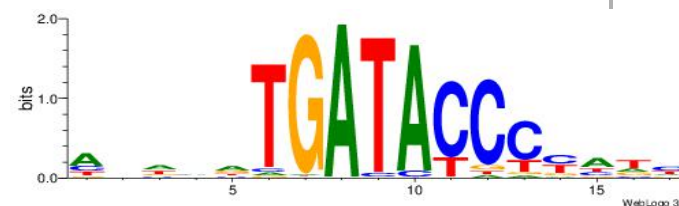
Original motif

Consensus sequence: DHDRGGGTATCAHDHBT



Reverse complement motif

Consensus sequence: AVHDHTGATACCCMDHH



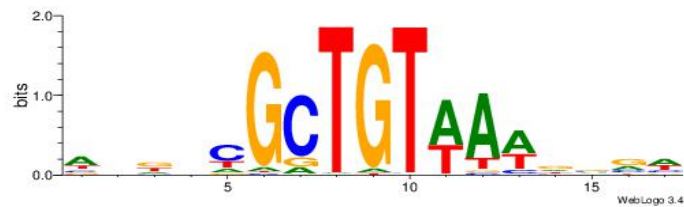
Motif ID:	UP00193
Motif name:	Rhox11_2205.1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	1.0459

Alignment:

--WVVHWTWACAGCGHHVT
TGTGGTGTACAGTGCTCC

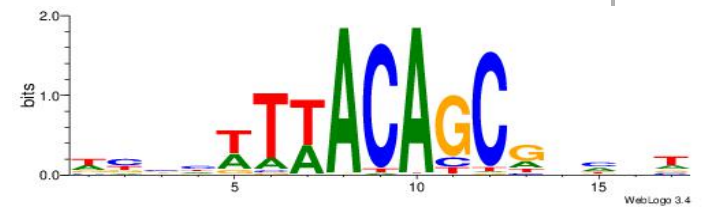
Original motif

Consensus sequence: AVDHCGCTGTAWDVVW



Reverse complement motif

Consensus sequence: WVVHWTWACAGCGHHVT



Motif ID:	UP00193
Motif name:	Rhox11_1765.2
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	1.0462

Alignment:

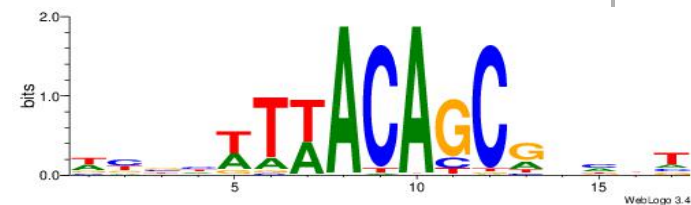
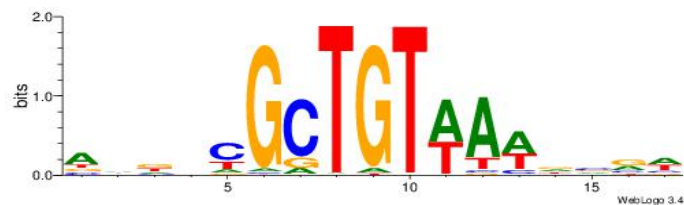
--WVVHWTWACAGCGBHBT
TGTGGTGTACAGTGCTCC

Original motif

Consensus sequence: AVDVCGCTGTAWDVVW

Reverse complement motif

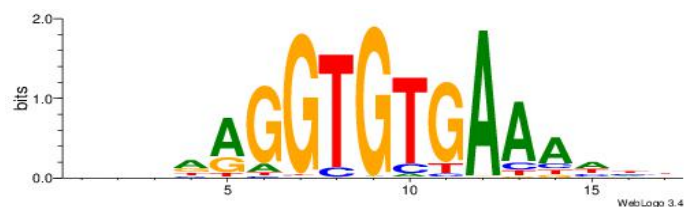
Consensus sequence: WVVHWTWACAGCGBHBT



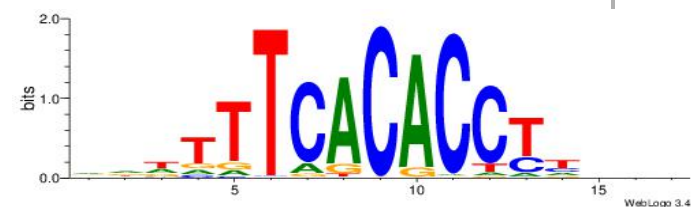
Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 17
 Similarity score: 1.04631

Alignment:
 --HHHTTTCACACCTDHBV
 GGAGCACTGTGACACCACA--

Original motif
 Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif
 Consensus sequence: HHHTTTCACACCTDHBV



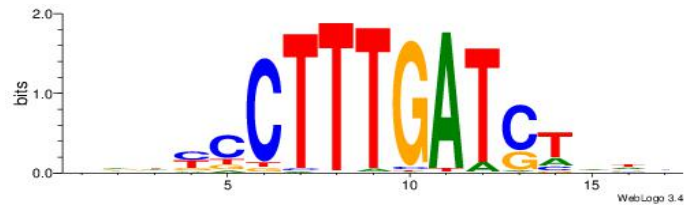
Motif ID: [UP00067](#)
 Motif name: Lef1_primary

Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 17
 Similarity score: 1.04807

Alignment:
 VDDAGATCAAAGGKDDD--
 -GGAGCACTGTGACACCACA

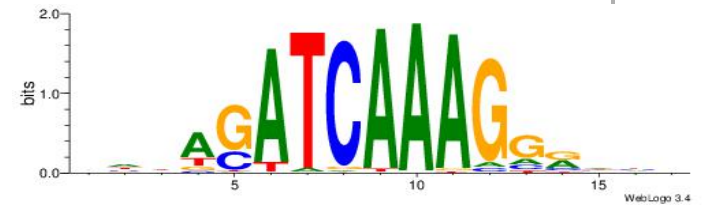
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



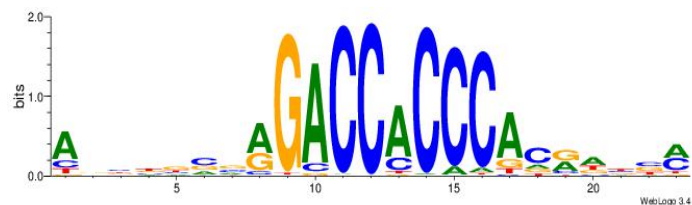
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 17
 Similarity score: 1.04831

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT--
 --GGAGCACTGTGACACCACA-----

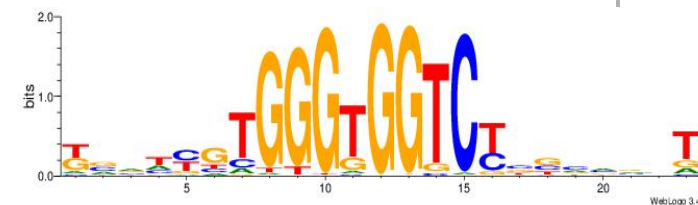
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 17
 Similarity score: 1.04867

Alignment:

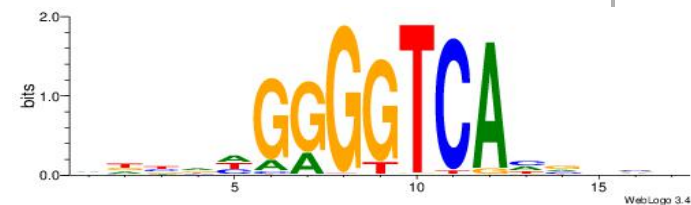
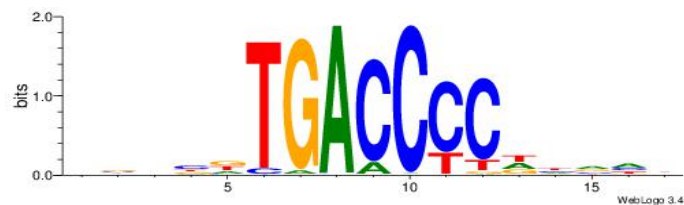
--DBHBDTGACCCCDHVHB
 TGTGGTGTACAGTGCTCC--

Original motif

Consensus sequence: DBHBDTGACCCCDHVHB

Reverse complement motif

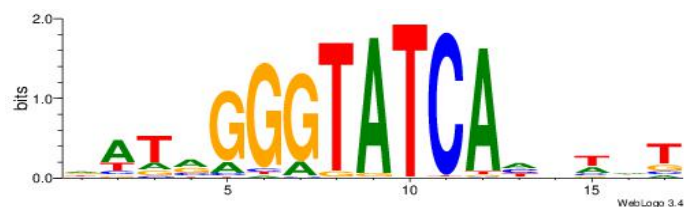
Consensus sequence: VHBHDGGGGTCAHBHBD



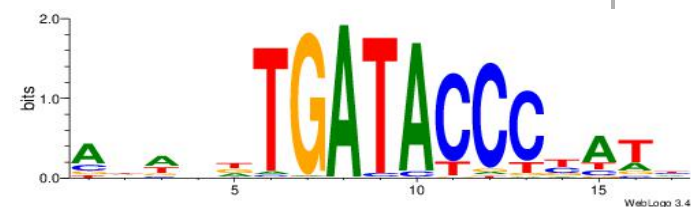
Motif ID: [UP00388](#)
 Motif name: Six6_2267.4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 1.0491

Alignment:
 --AHWDHTGATACCCKATD
 GGAGCACTGTGACACCACA

Original motif
 Consensus sequence: DATRGGGTATCAHDWHT



Reverse complement motif
 Consensus sequence: AHWDHTGATACCCKATD



Dataset #: 2 **Motif ID: 18** **Motif name: sscCCCGCGcs**

Original motif

Consensus sequence: BSCCCCGCGBS



Reverse complement motif

Consensus sequence: SBCGCGGGGSB



Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID:	UP00000
Motif name:	Smad3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.00934222

Alignment:

BHBHDTGGCGGGBDHD

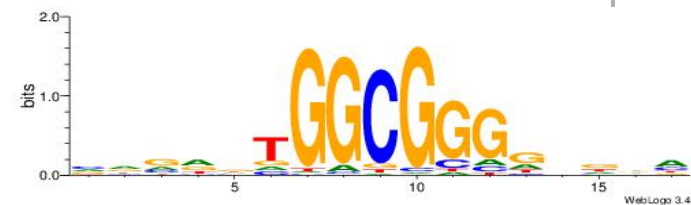
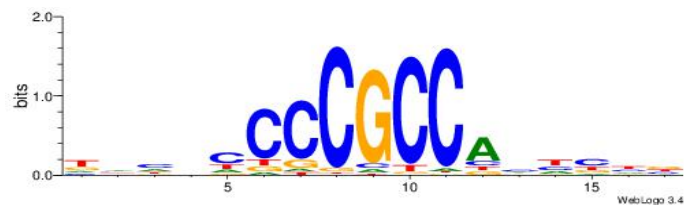
----SBCGCGGGGSB--

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

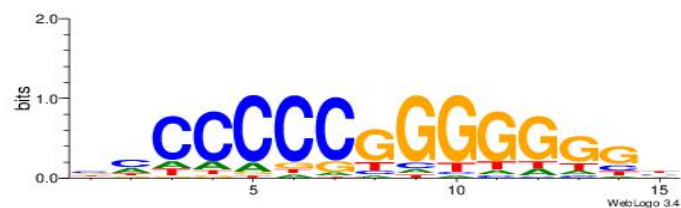
Consensus sequence: BHBHDTGGCGGGBDHD



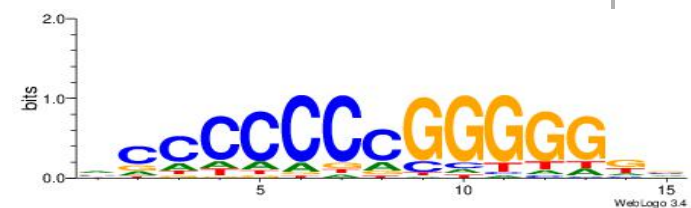
Motif ID: [UP00006](#)
 Motif name: Zic3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0105793

Alignment:
 VCCCCCCCCGGGGGRB
 ---SBCGCGGGGSB-

Original motif
 Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif
 Consensus sequence: VCCCCCCCCGGGGGRB



Motif ID: [UP00057](#)

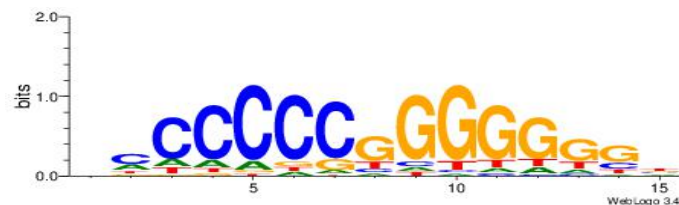
Motif name: Zic2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0112489

Alignment:

BMCCCCCGGGGGGGB
 -BSCCCCGCGBS---

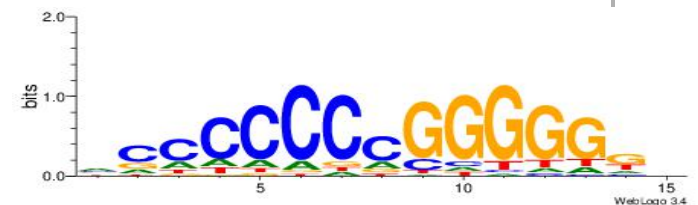
Original motif

Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGGRB

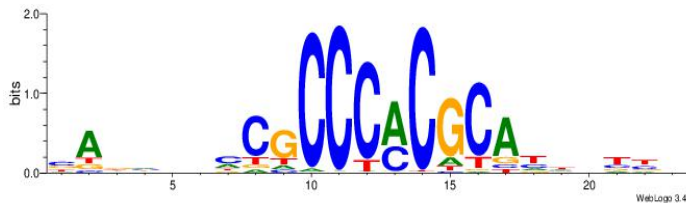


Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 11

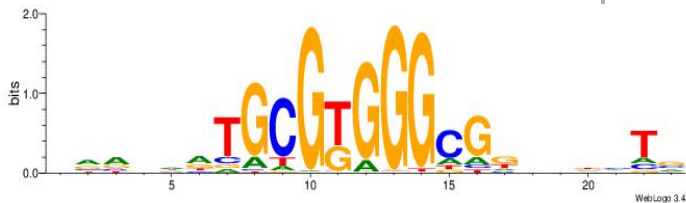
Similarity score: 0.014467

Alignment:
VVVDHHTGCGYGGGCGDHHHTB
-----SBCGCGGGGSB-----

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHDBBV



Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHHHTB

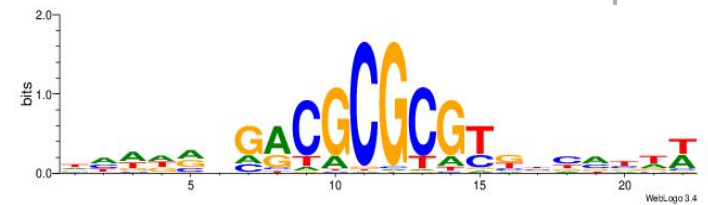
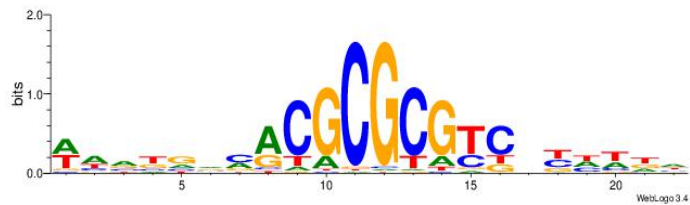


Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0150561

Alignment:
HDWHMHGACGCGCGTRBVVBHW
-----SBCGCGGGGSB---

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

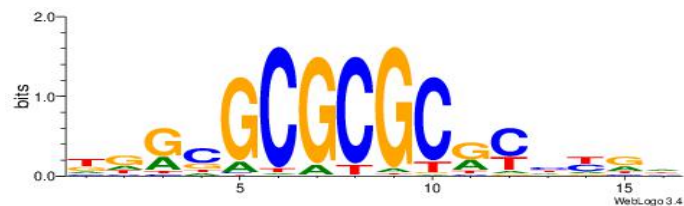
Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



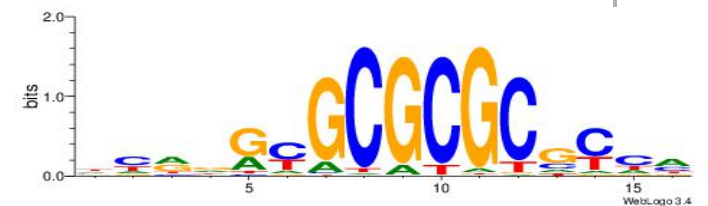
Motif ID: [UP00065](#)
 Motif name: Zfp161_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0169049

Alignment:
 DMMDGMGCGCGCHD
 --BSCCCGCGBS--

Original motif
 Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif
 Consensus sequence: DMMDGMGCGCGCHD



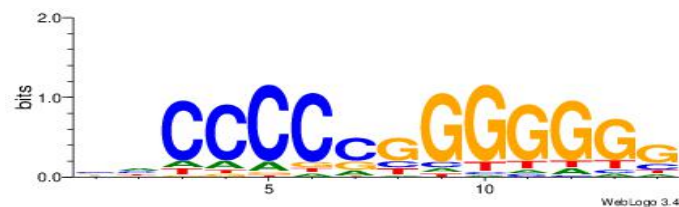
Motif ID: [UP00102](#)
 Motif name: Zic1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0186112

Alignment:

BHCCCCCGGGGGG
 -BCCCCGCGBS--

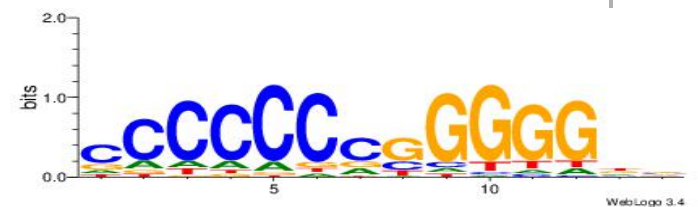
Original motif

Consensus sequence: BHCCCCCGGGGGG



Reverse complement motif

Consensus sequence: CCCCCCGGGGGHB



Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8

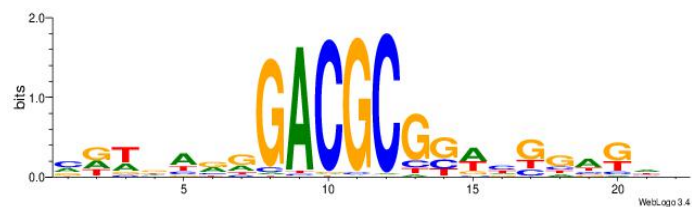
Number of overlap: 11
Similarity score: 0.0192401

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
----BSCCCCGCGBS-----

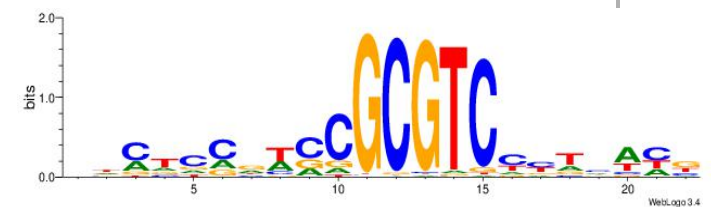
Original motif

Consensus sequence: VDW DARRGACGCGGWHGGA KHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0204596

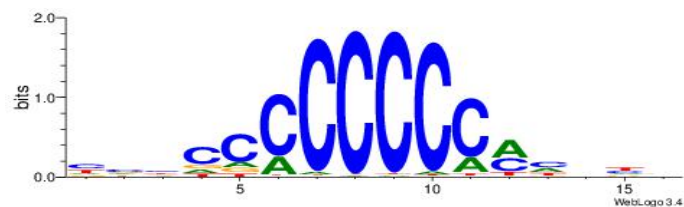
Alignment:

BHHDYGGGGGGGBVD
--SBCGCGGGGSB---

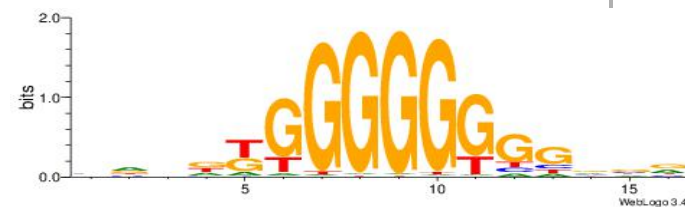
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



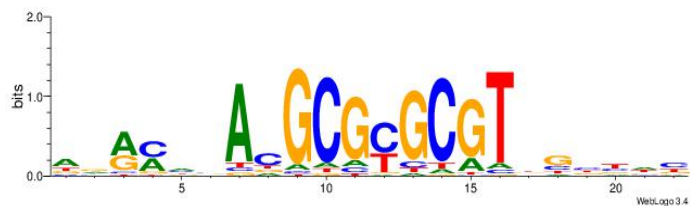
Motif ID: [UP00526](#)
Motif name: Foxn1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0232114

Alignment:

DDRMHBACGCGYGCGTDGBBDB
-----SBCGCGGGGSB-----

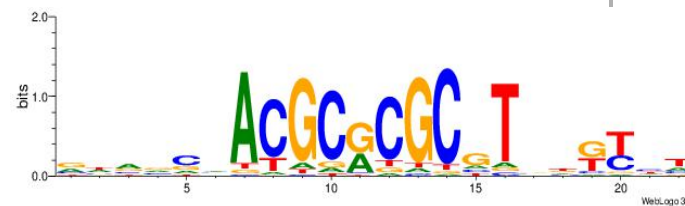
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Dataset #: 2 **Motif ID: 19** **Motif name: atactttggc**

Original motif

Consensus sequence: ATACTTTGGC



Reverse complement motif

Consensus sequence: GCCAAAGTAT



Best Matches for Motif ID 19 (Highest to Lowest)

Motif ID:	UP00156
Motif name:	Msx2
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0221581

Alignment:

ADHKCTAATTKGTCDBV

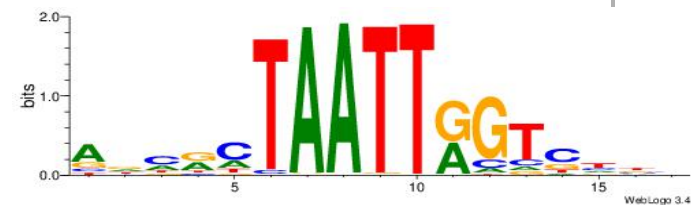
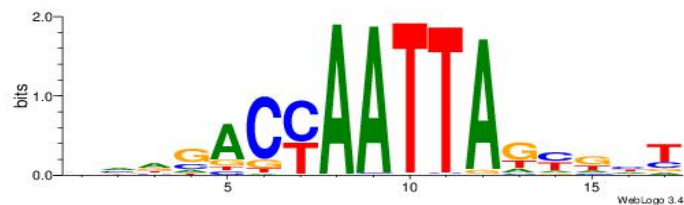
----ATACTTTGGC---

Original motif

Consensus sequence: VVDGACYAATTAGYDHT

Reverse complement motif

Consensus sequence: ADHKCTAATTKGTCDBV

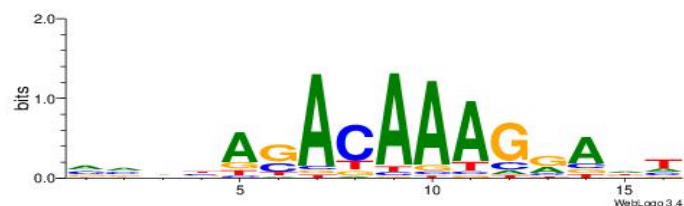


Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.027519

Alignment:
 HDTMCTTTGTSTVDBB
 -ATACTTTGGC-----

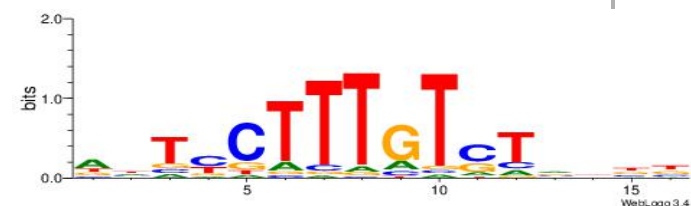
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



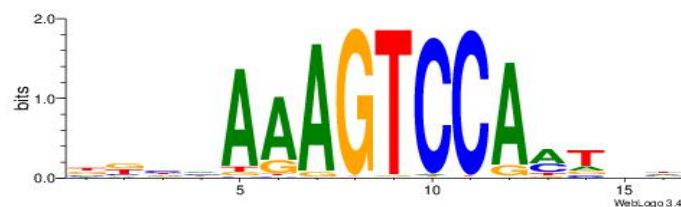
Motif ID: [UP00066](#)

Motif name: Hnf4a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0285786

Alignment:
 BBHHAAAGTCCAMTHH
 -GCCAAAGTAT-----

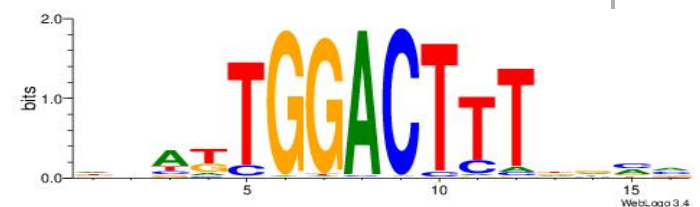
Original motif

Consensus sequence: BBHHAAAGTCCAMTHH



Reverse complement motif

Consensus sequence: HHAYTGGACTTTTHDBV



Motif ID: [UP00418](#)
 Motif name: Etv6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10

Similarity score: 0.030488

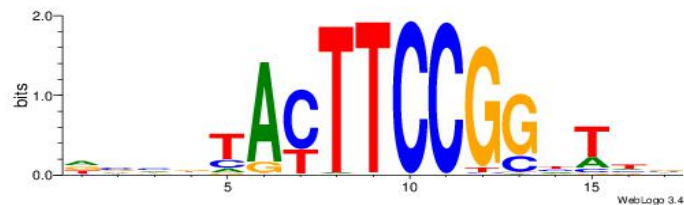
Alignment:

BHAHCCGGAAGTABDVD

----GCCAAAGTAT---

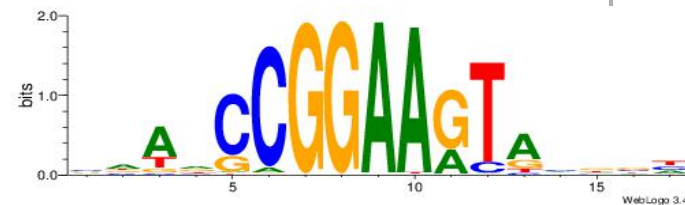
Original motif

Consensus sequence: DVHBTACTTCCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0314685

Alignment:

BDDASATCAAAGGMDDD

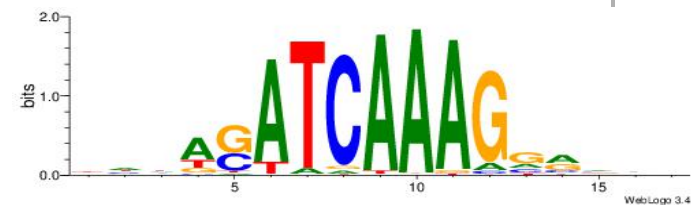
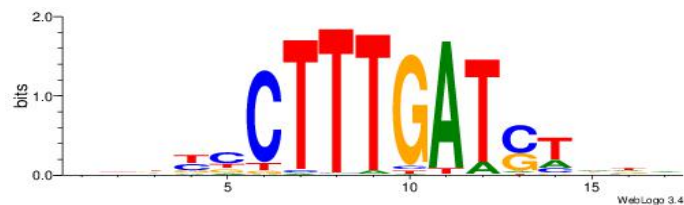
-----GCCAAAGTAT--

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

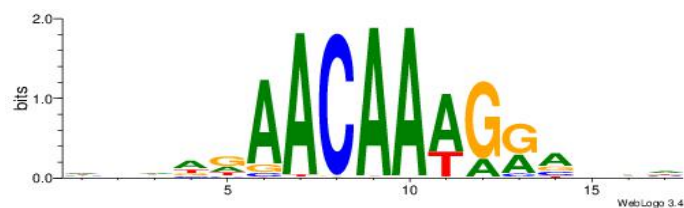
Consensus sequence: BDDASATCAAAGGMDDD



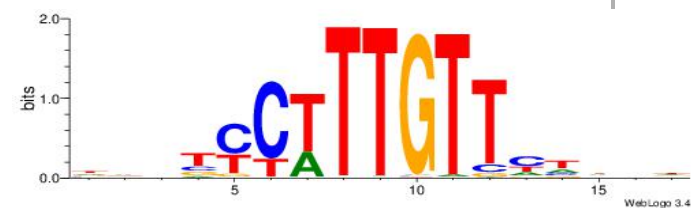
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0317293

Alignment:
 HHBTMCTTTGTTMDDVH
 --ATACTTTGGC-----

Original motif
 Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif
 Consensus sequence: HHBTMCTTTGTTMDDVH

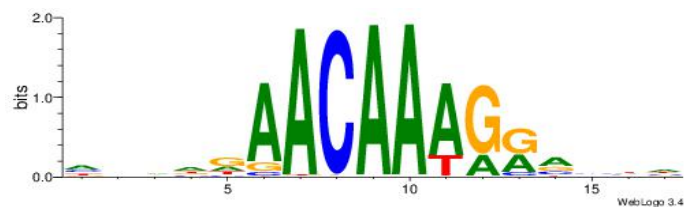


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.031914

Alignment:
 HHBBMCTTTGTTHDDBH
 --ATACTTTGGC-----

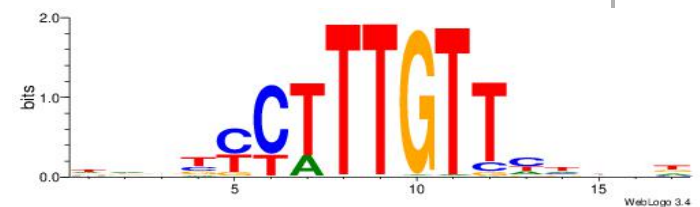
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00035](#)
 Motif name: Hic1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6

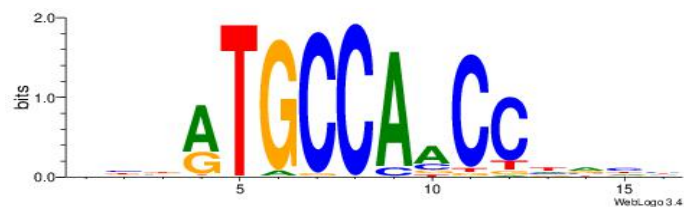
Number of overlap: 10
Similarity score: 0.0323012

Alignment:

DBBATGCCAACCHVHH
-----GCCAAAGTAT--

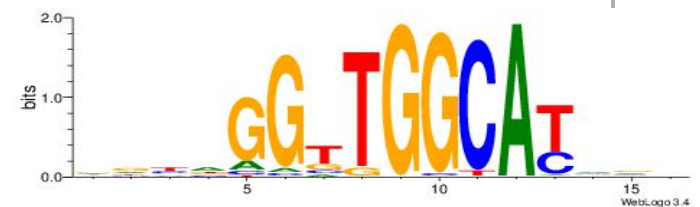
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID: [UP00146](#)
Motif name: Pou6f1_3733.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.032571

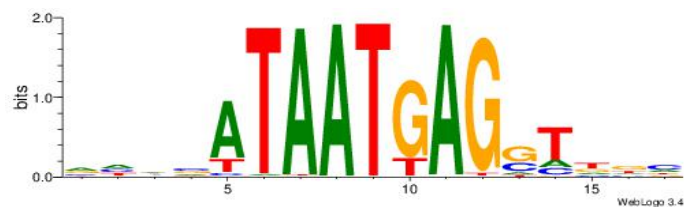
Alignment:

VHHVATAATGAGSTDDH
-----ATACTTTGGC---

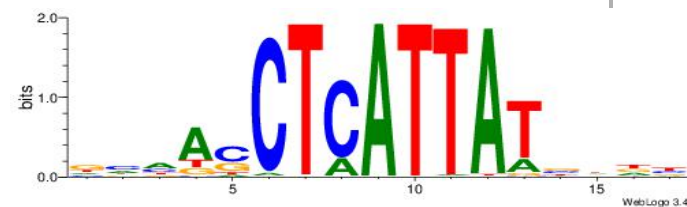
Original motif

Reverse complement motif

Consensus sequence: VHHVATAATGAGSTDDH



Consensus sequence: DHDASCTCATTATVHHB



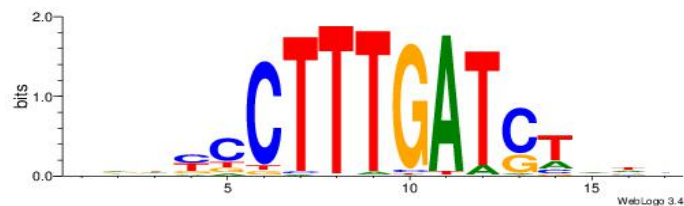
Motif ID: [UP00067](#)
Motif name: Lef1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0330221

Alignment:

DDDYCCTTTGATCTDDV
--ATACTTTGGC-----

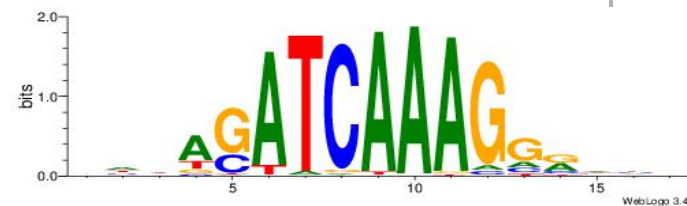
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGKDDD



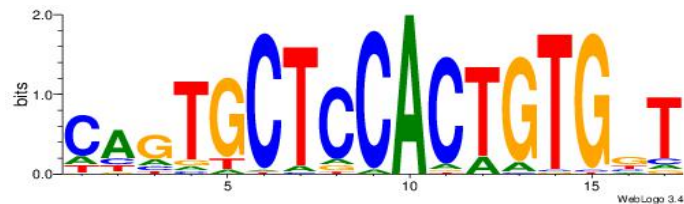
Dataset #: 2

Motif ID: 20

Motif name: CagTGCTCCACTGTGgT

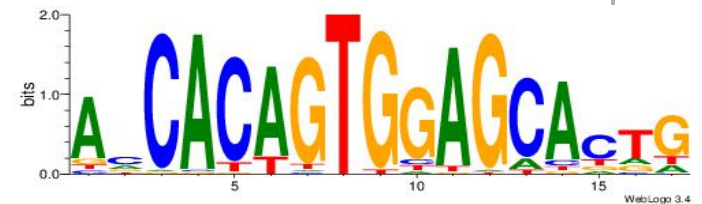
Original motif

Consensus sequence: CAGTGCTCCACTGTGBT



Reverse complement motif

Consensus sequence: ABCACAGTGGAGCACTG



Best Matches for Motif ID 20 (Highest to Lowest)

Motif ID:	UP00539
Motif name:	Gli2_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0419306

Alignment:

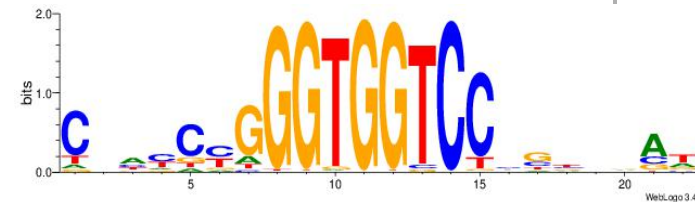
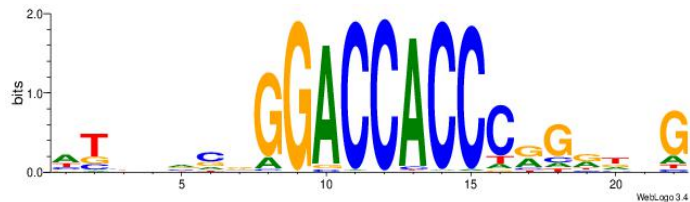
```
CBDMCMGGGTGGTCCHVBVAH  
--ABCACAGTGGAGCACTG---
```

Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG

Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVAH

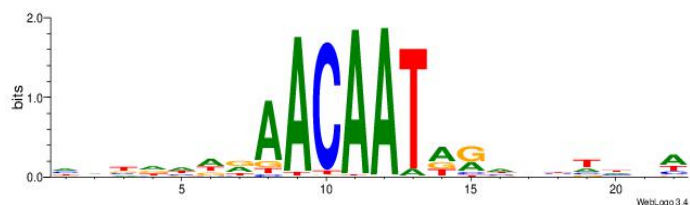


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0501904

Alignment:
 HHBDHDDAACAATDRHHHHHBW
 -----ABCACAGTGGAGCACTG

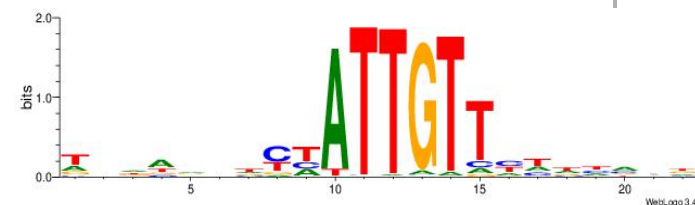
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH



Motif ID: [UP00538](#)

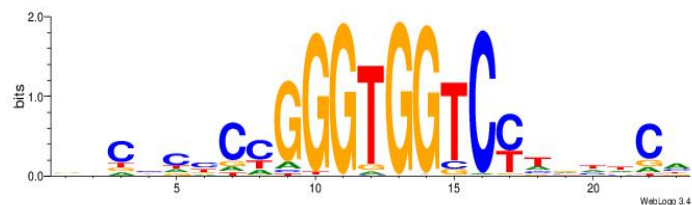
Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 17
 Similarity score: 0.0504778

Alignment:

HGDHVHKGACCACCCGGBGBGDB
 --CAGTGCTCCACTGTGBT----

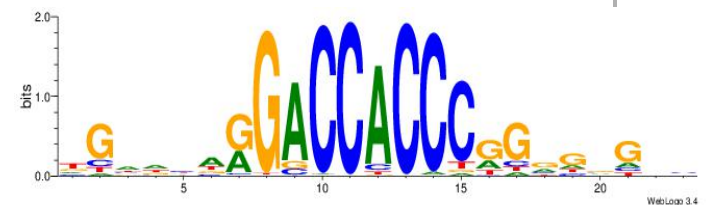
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



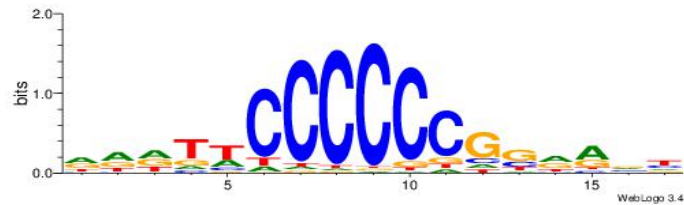
Motif ID: [UP00022](#)
 Motif name: Zfp740_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0513094

Alignment:

DDDTWCCCCCGGDRVH
CAGTGCTCCACTGTGBT

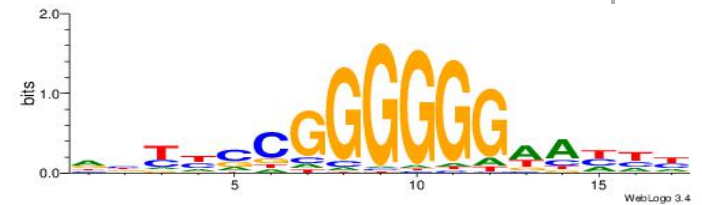
Original motif

Consensus sequence: DDDTWCCCCCGGDRVH



Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD



Motif ID:	UP00540
Motif name:	Gli3_v015681_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0516506

Alignment:

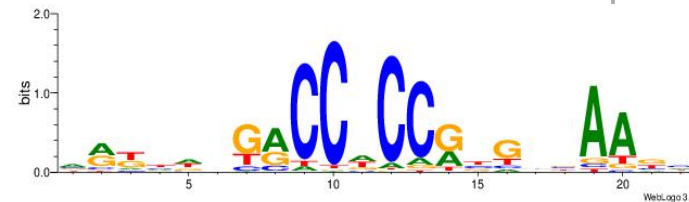
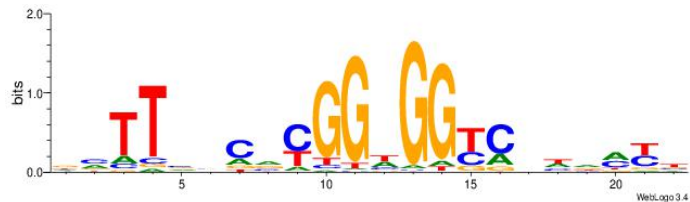
VMYDHDGMCCHCCKBGVVAHVH
-CAGTGCTCCACTGTGBT----

Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB

Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH

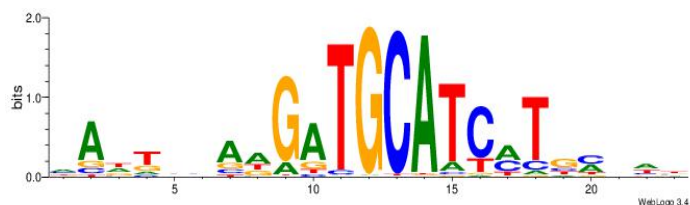


Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 17
 Similarity score: 0.0523515

Alignment:
 VHVRCAYGATGCATCDTVVADTH
 --ABCACAGTGGAGCACTG----

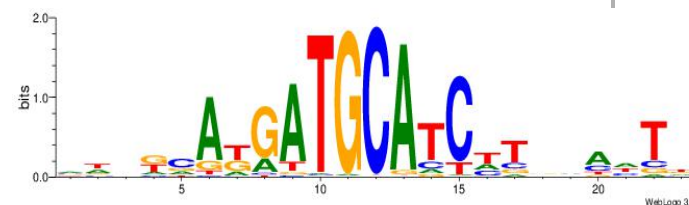
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Motif ID: [UP00540](#)

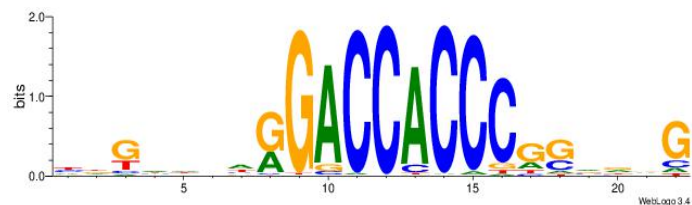
Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 17
 Similarity score: 0.053668

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 --ABCACAGTGGAGCACTG---

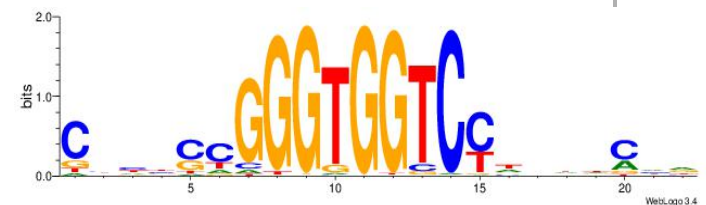
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH

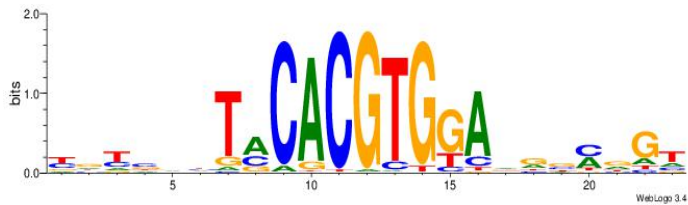


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 17

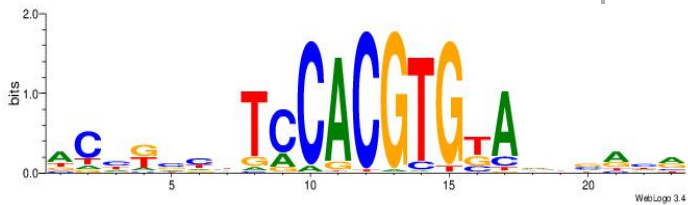
Similarity score: 0.0539016

Alignment:
YDYBDHTMCACGTGGADDBMDGT
-----ABCACAGTGGAGCACTG-

Original motif
Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif
Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM

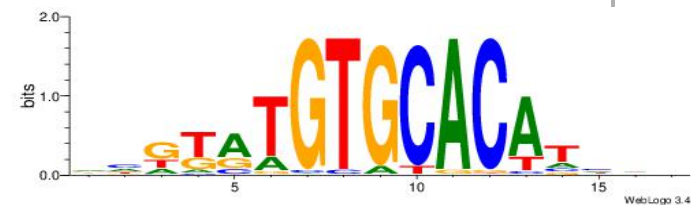
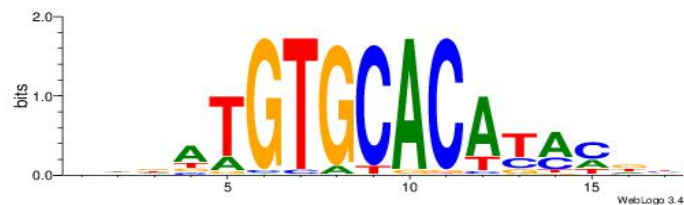


Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0558205

Alignment:
HHRTATGTGCACATHHD
ABCACAGTGGAGCACTG

Original motif
Consensus sequence: HHDATGTGCACATAMDH

Reverse complement motif
Consensus sequence: HHRTATGTGCACATHHD



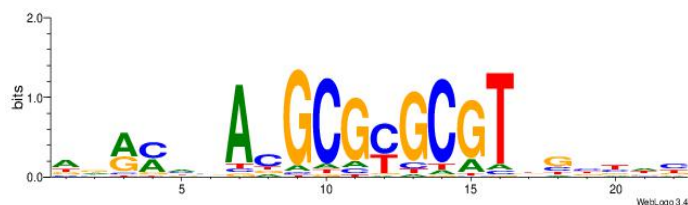
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 17
 Similarity score: 0.0558674

Alignment:

BDVBCDACGCKCGCGTBHRKHD
 ----CAGTGCTCCACTGTGBT-

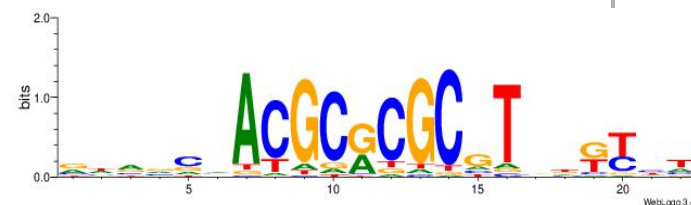
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

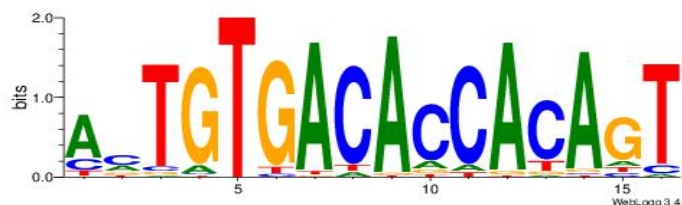
Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Dataset #: 2 **Motif ID: 21** **Motif name: AmTGTGACACCACAGT**

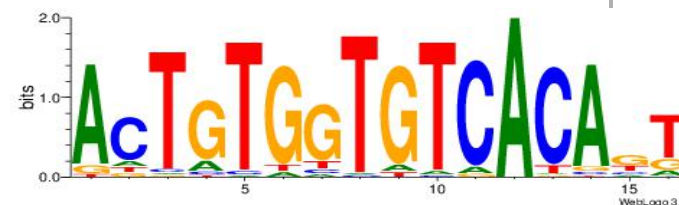
Original motif

Consensus sequence: AMTGTGACACCACAGT



Reverse complement motif

Consensus sequence: ACTGTGGTGTACART



Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID:	UP00020
Motif name:	Atf1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0273934

Alignment:

DBDRTGACGTCAYHRD

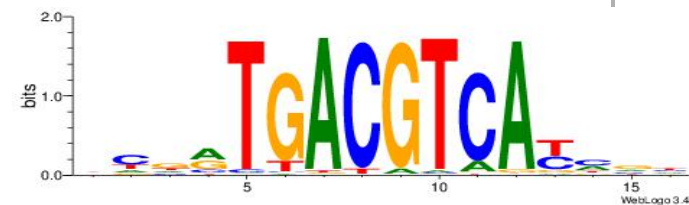
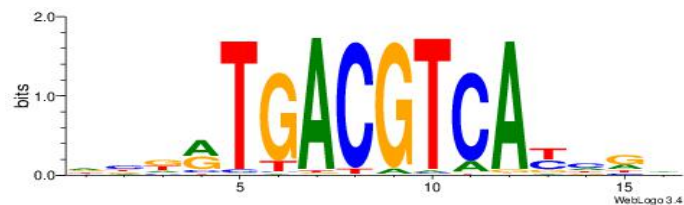
AMTGTGACACCACAGT

Original motif

Consensus sequence: DBDRTGACGTCAYHRD

Reverse complement motif

Consensus sequence: DMDMTGACGTCACHBD

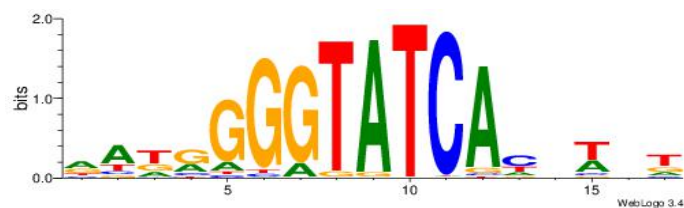


Motif ID: [UP00159](#)
 Motif name: Six2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.0303245

Alignment:
 AHWDGTGATACCCMRD
 -AMTGTGACACCACAGT

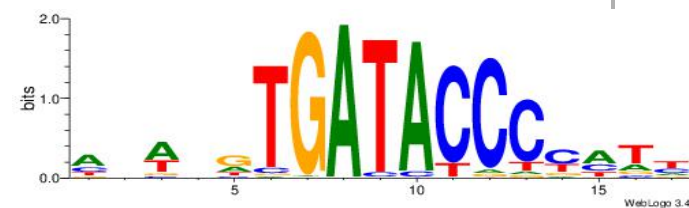
Original motif

Consensus sequence: DAKRGGGTATCACDWHT



Reverse complement motif

Consensus sequence: AHWDGTGATACCCMRD



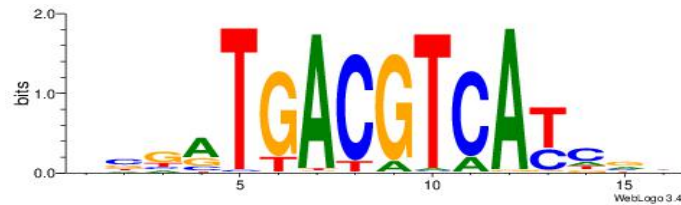
Motif ID: [UP00103](#)

Motif name: Jundm2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0344928

Alignment:
BBGATGACGTCA YCVH
AMTGTGACACCACAGT

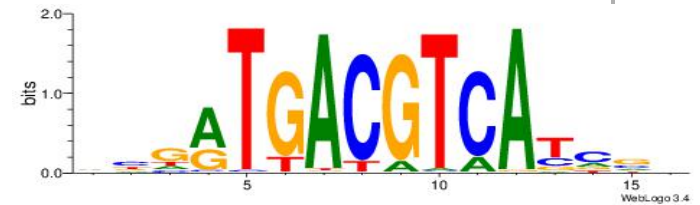
Original motif

Consensus sequence: BBGATGACGTCA YCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCA TCBB



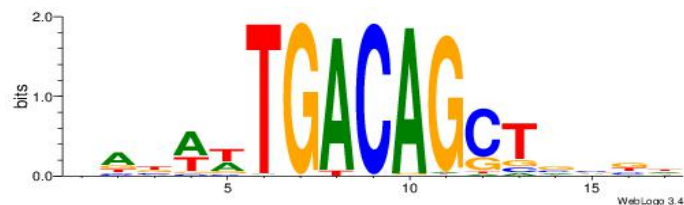
Motif ID: [UP00122](#)
Motif name: Tgif1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0348371

Alignment:

DBVVAGCTGTCAWWVTH
ACTGTGGTGTACART-

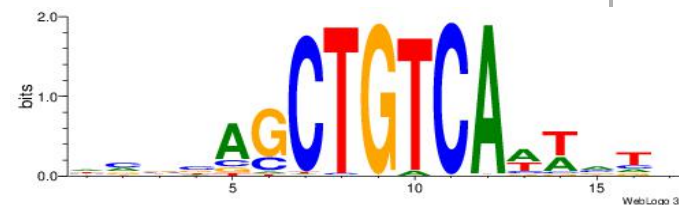
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWWVTH



Motif ID:	UP00195
Motif name:	Six3
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0349083

Alignment:

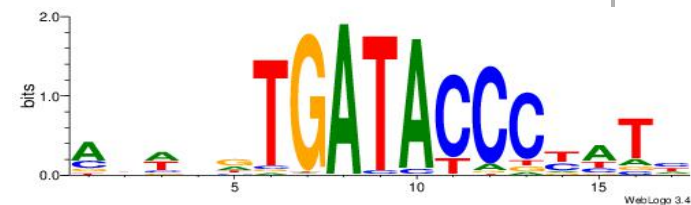
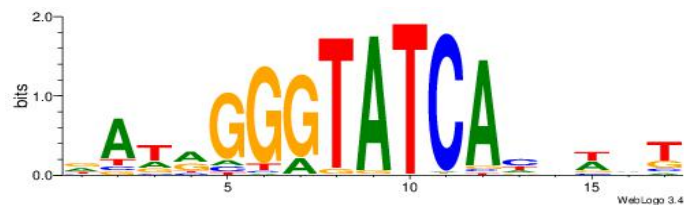
DATRGGGTATCAHHWHT
ACTGTGGTGTACART-

Original motif

Consensus sequence: DATRGGGTATCAHHWHT

Reverse complement motif

Consensus sequence: AHWHTGATACCKATH

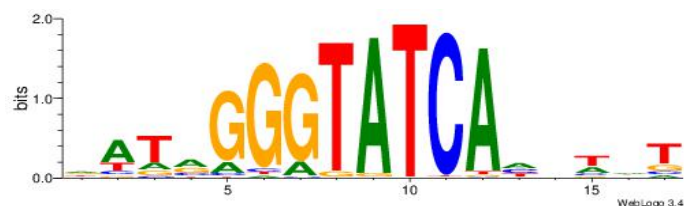


Motif ID: [UP00388](#)
 Motif name: Six6_2267.4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.0354092

Alignment:
 DATRGGGTATCAHDWHT
 ACTGTGGTGTCACART-

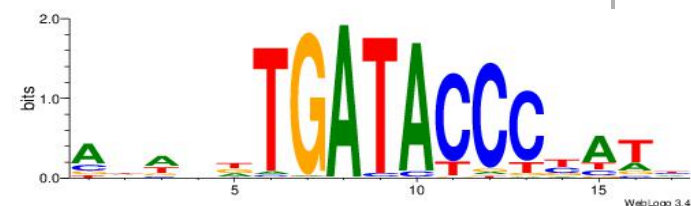
Original motif

Consensus sequence: DATRGGGTATCAHDWHT



Reverse complement motif

Consensus sequence: AHWDHTGATACCCKATD



Motif ID: [UP00192](#)

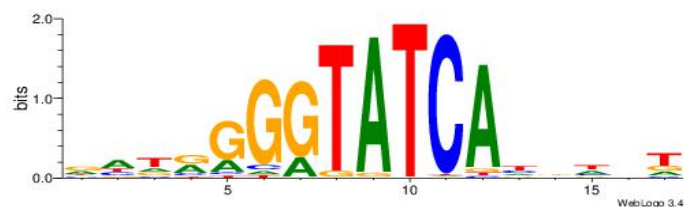
Motif name: Six1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 16
 Similarity score: 0.0354313

Alignment:

DHDRGGGTATCAHDHBT
 ACTGTGGTGTACART-

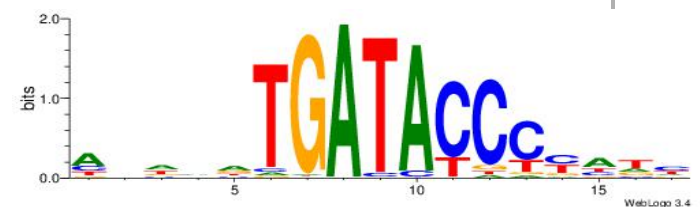
Original motif

Consensus sequence: DHDRGGGTATCAHDHBT



Reverse complement motif

Consensus sequence: AVHDHTGATACCCMDHH



Motif ID: [UP00199](#)
 Motif name: Six4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16

Similarity score: 0.0355151

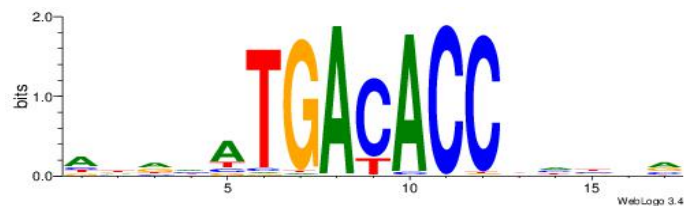
Alignment:

ADDHATGACACCBHBBV

-AMTGTGACACCACAGT

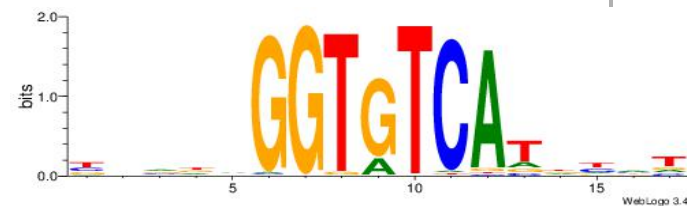
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTCAHDDT



Motif ID: [UP00053](#)
Motif name: Rxra_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.0362492

Alignment:

DBHBDTGACCCCDHVHB

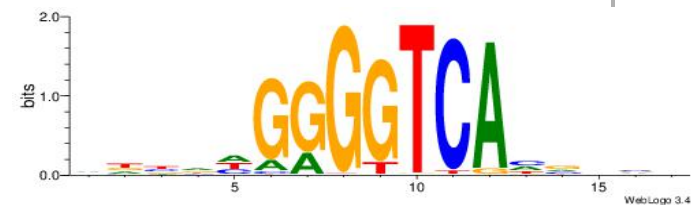
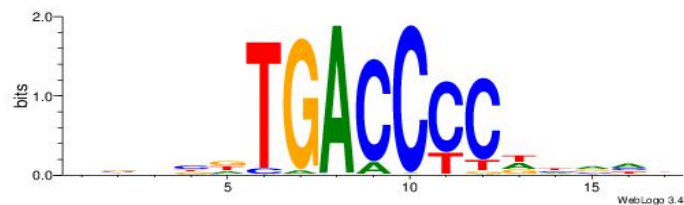
-AMTGTGACACCACAGT

Original motif

Consensus sequence: DBHBDTGACCCCDHVHB

Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD

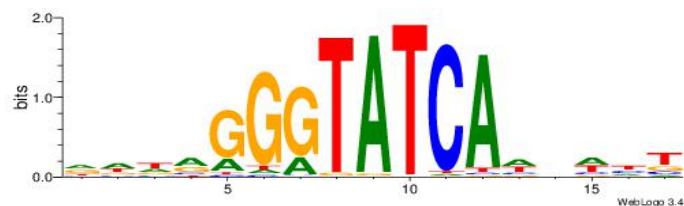


Motif ID: [UP00388](#)
 Motif name: Six6_2267.5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 16
 Similarity score: 0.0374881

Alignment:
 DDRGGGTATCAWHWHT
 -AMTGTGACACCACAGT

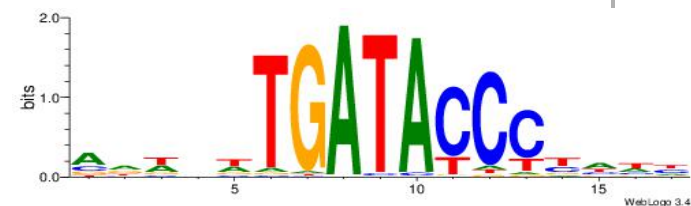
Original motif

Consensus sequence: DDRGGGTATCAWHWHT



Reverse complement motif

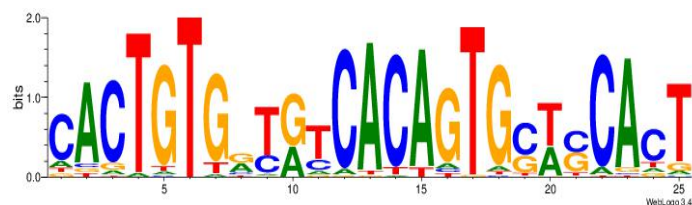
Consensus sequence: AHWHTGATACCKDD



Dataset #: 2 Motif ID: 22 Motif name: CACTGTGrYrtCACAGTGswsCAcT

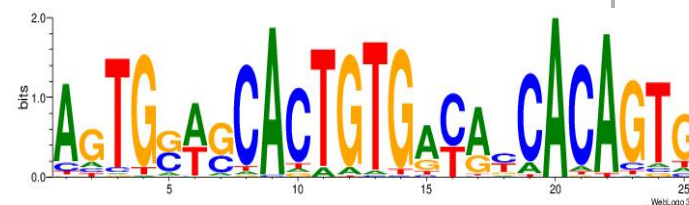
Original motif

Consensus sequence: CACTGTGRTRTCACAGTGSWSCACT



Reverse complement motif

Consensus sequence: AGTGSWSCACTGTGAMAMCACAG



Best Matches for Motif ID 22 (Highest to Lowest)

Motif ID:	UP00034
Motif name:	Sox7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	21
Similarity score:	0.0558366

Alignment:

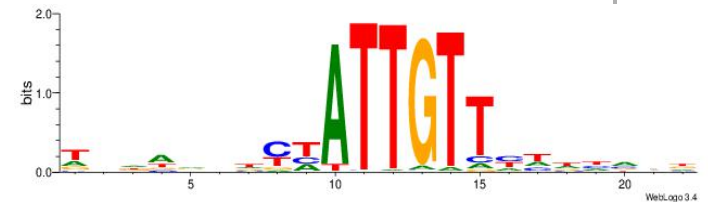
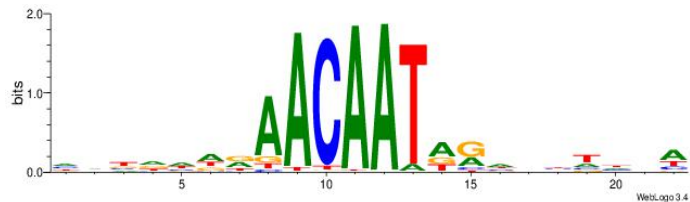
```
----HHBDHDDAACAATDRHHHHHBW  
CACTGTGRTRTCACAGTGSWSCACT-
```

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 20
 Similarity score: 0.55477

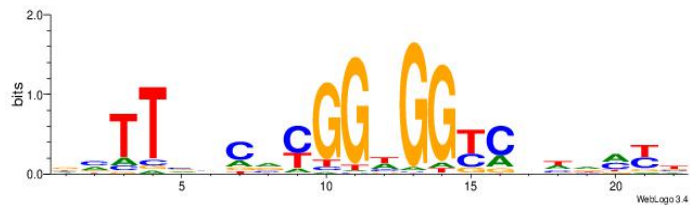
Alignment:

```

-----VMYDHDGMCCHCCKBGVVAAPH
AGTGSWSCACTGTGAMAMCACAGTG-----
  
```

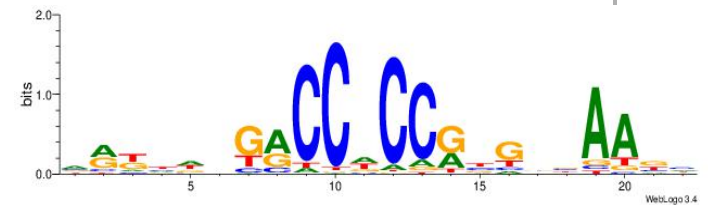
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAAPH



Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary

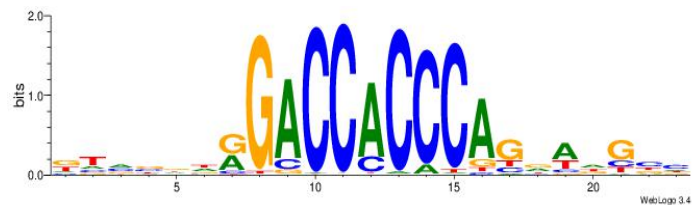
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 19
 Similarity score: 1.05722

Alignment:

```
-----DTVBDDRGACCACCCAGDWDGBH
AGTGSWSCACTGTGAMAMCACAGTG----
```

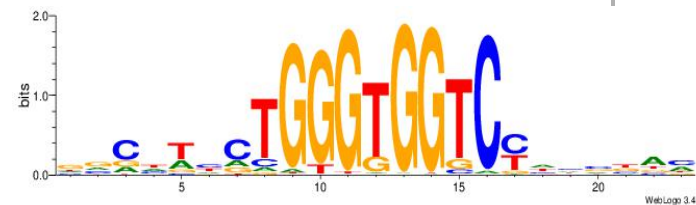
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



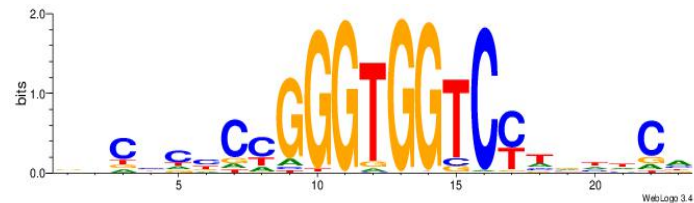
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 19
 Similarity score: 1.05946

Alignment:

```
HGDHVKHGACCACCCGGBGBGDB-----  
-----AGTGSWSCACTGTGAMAMCACAGTG
```

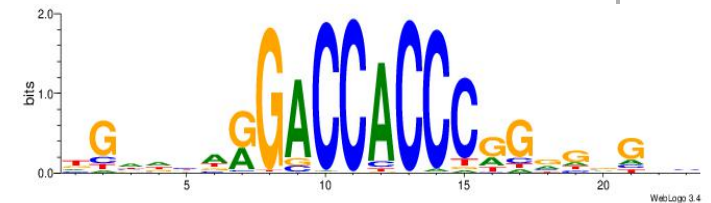
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCACCCGGBGBGDB



Motif ID:	UP00539
Motif name:	Gli2_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	18
Similarity score:	1.5496

Alignment:

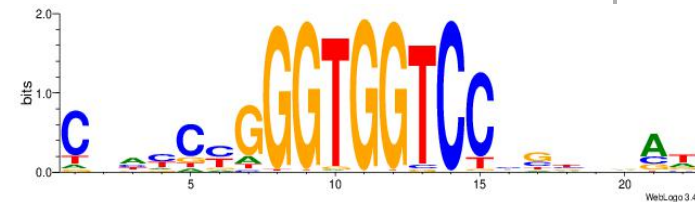
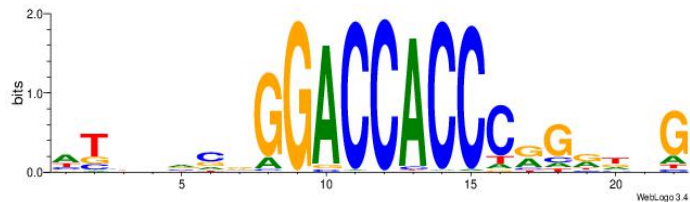
```
HTBVVVDGGACCACCCRGRDBG-----  
-----CACTGTGRTRTCACAGTGSWSCACT
```

Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG

Reverse complement motif

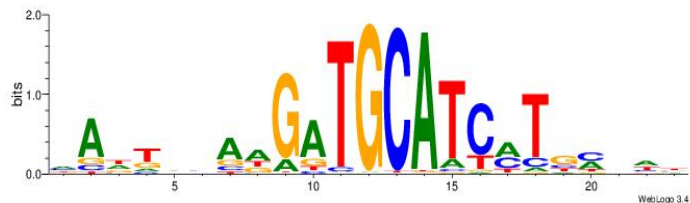
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



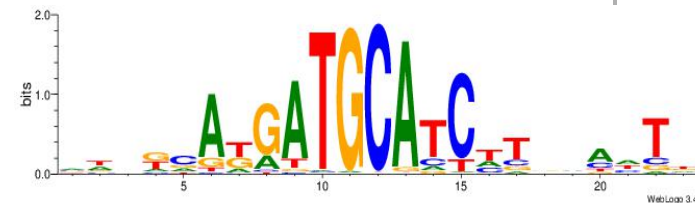
Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 18
 Similarity score: 1.55149

Alignment:
 HADTBVADGATGCATCMTGMVHB-----
 -----CACTGTGRTRTCACAGTGSWSCACT

Original motif
 Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif
 Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary

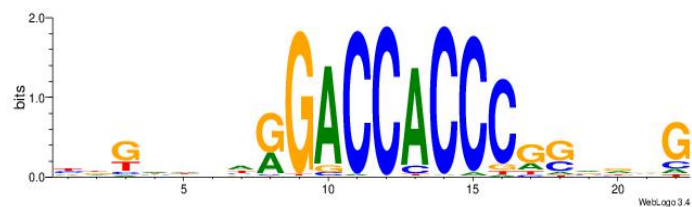
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 18
 Similarity score: 1.55607

Alignment:

HDGHHBHRGACCACCCGSVDVG-----
 ----AGTGSWSCACTGTGAMAMCACAGTG

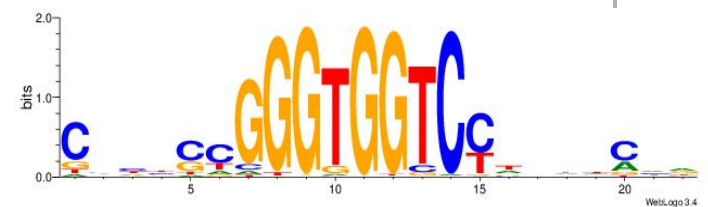
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



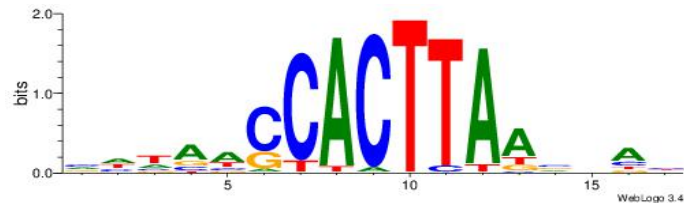
Motif ID: [UP00228](#)
 Motif name: Bapx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 17
 Similarity score: 2.04247

Alignment:

```
-----DTBVTTAAGTGGTTHHV
AGTGSWSCACTGTGAMAMCACAGTG-----
```

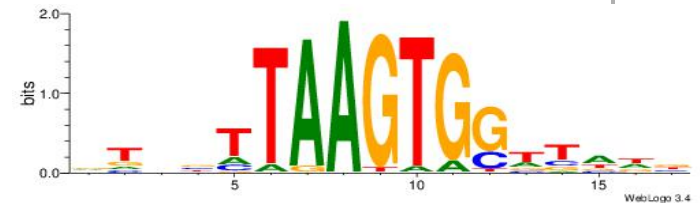
Original motif

Consensus sequence: VHHAACCACTTAHV



Reverse complement motif

Consensus sequence: DTBVTTAAGTGGTTHHV



Motif ID:	UP00031
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	2.04316

Alignment:

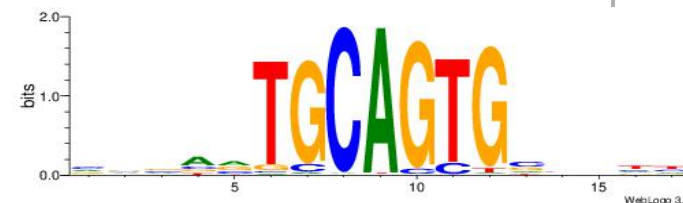
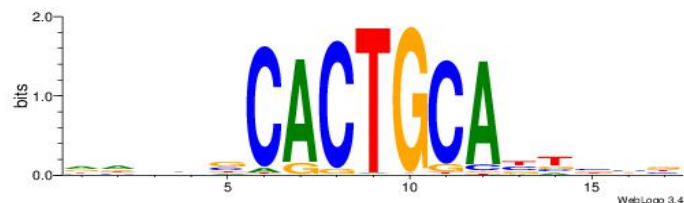
```
-----DDBBBCACTGCABTBBB
CACTGTGRTRTCACAGTGSWSCACT--
```

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVD



Motif ID: [UP00193](#)
 Motif name: Rhox11_1765.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 17
 Similarity score: 2.04346

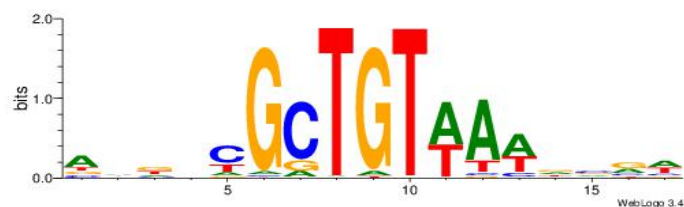
Alignment:

```

-----WVVHWTWACAGCGBHBT
AGTGSWSCACTGTGAMAMCACAGTG-----
  
```

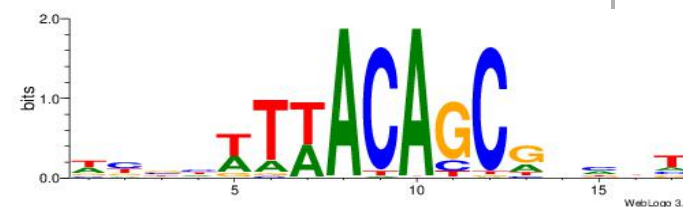
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

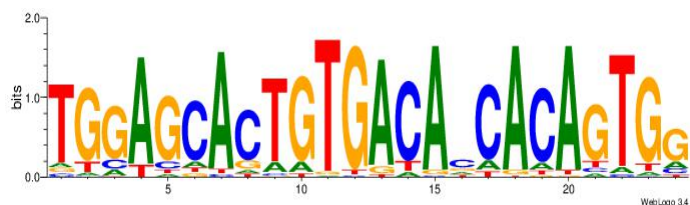
Consensus sequence: WVVHWTWACAGCGBHBT



Dataset #: 2 **Motif ID: 23** **Motif name: TGGAGCACTGTGACAcCACAGTGg**

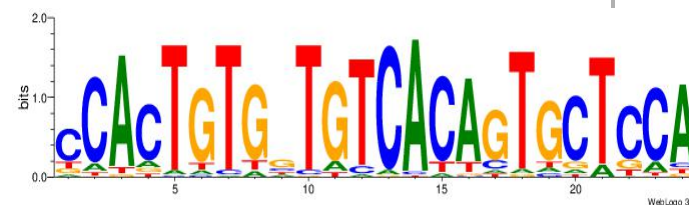
Original motif

Consensus sequence: TGGAGCACTGTGACAVCACAGTGG



Reverse complement motif

Consensus sequence: CCACTGTGVTGTACAGTGCTCCA



Best Matches for Motif ID 23 (Highest to Lowest)

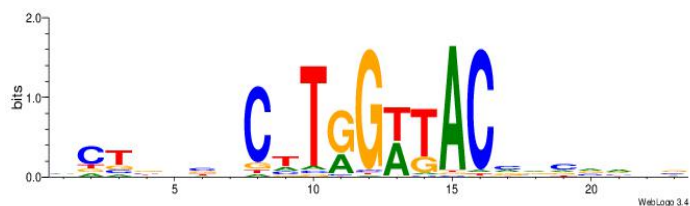
Motif ID:	UP00098
Motif name:	Rfx3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	21
Similarity score:	0.0391954

Alignment:

```
BDBBVBVGTAWCCAAGVBHBAGB---  
---CCACTGTGVTGTACAGTGCTCCA
```

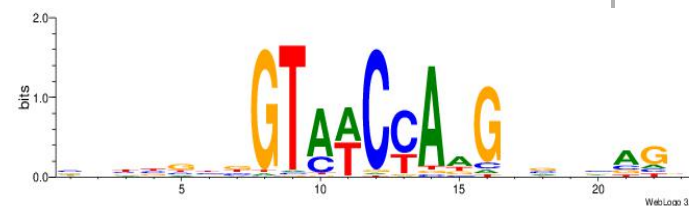
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



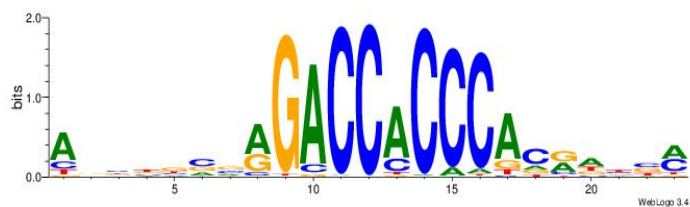
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 21
 Similarity score: 0.0400271

Alignment:

YBVDMSGTGGGTGGTCKVVBVBBT---
 --CCACTGTGVTGTACAGTGCTCCA

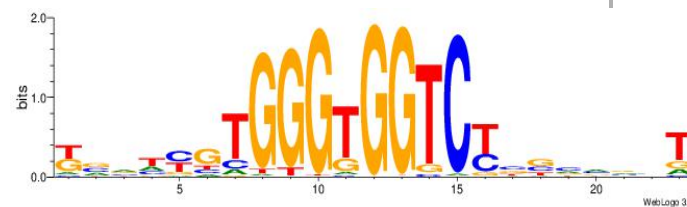
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMSGTGGGTGGTCKVVBVBBT



Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 20

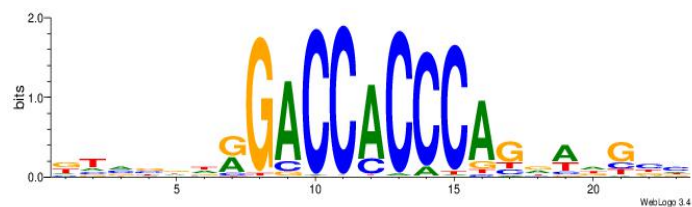
Similarity score: 0.535486

Alignment:

----DBCDWHCTGGGTGGTCMDHBBAH
CCACTGTGVTGTCACAGTGCTCCA----

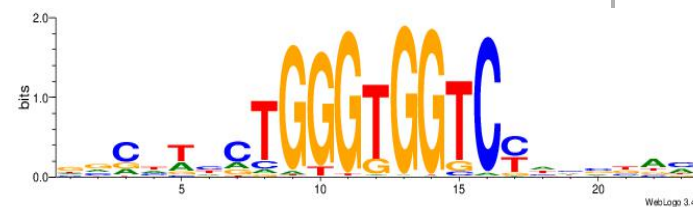
Original motif

Consensus sequence: DTVBDDRGACCA⁺CCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



Motif ID: [UP00538](#)
Motif name: Gli1_v015681_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 20
Similarity score: 0.536069

Alignment:

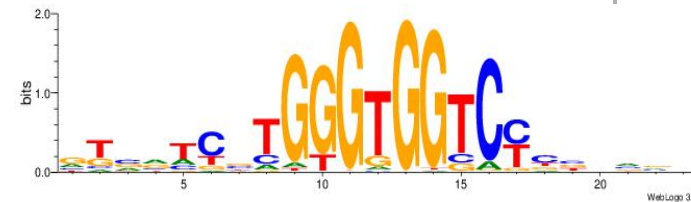
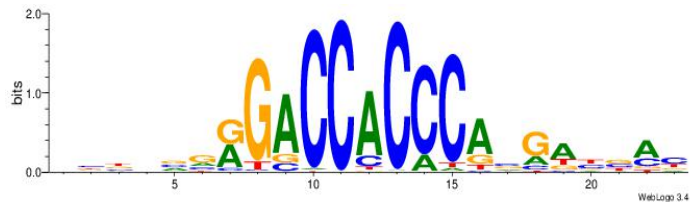
----BTBVTCTGGGTGGTCMVVDVBB
CCACTGTGVTGTCACAGTGCTCCA----

Original motif

Consensus sequence: BBBDVVRGACCA⁺CCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



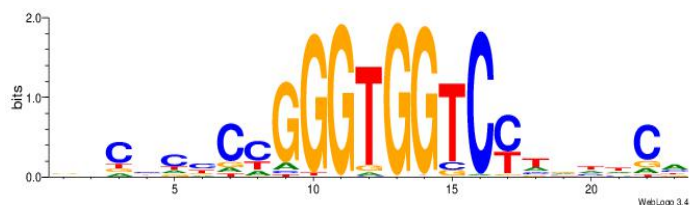
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.539704

Alignment:

----HGDHVKHGACCACCCGGBGBGDB
 TGGAGCACTGTGACAVCACAGTGG---

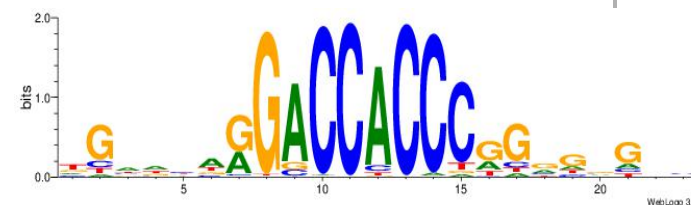
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCACCCGGBGBGDB



Motif ID: [UP00540](#)

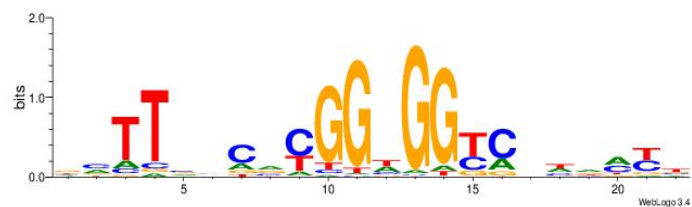
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 18
 Similarity score: 1.53819

Alignment:

-----DVTTVVCVYGGHGGYCHHDMYB
 TGGAGCACTGTGACAVCACAGTGG-----

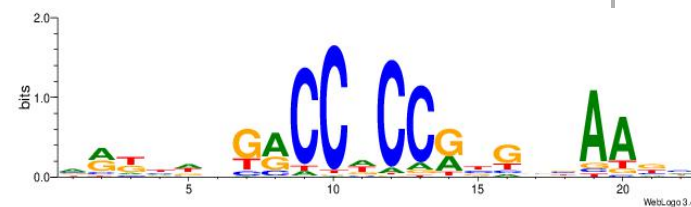
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKKBGVVAHVH



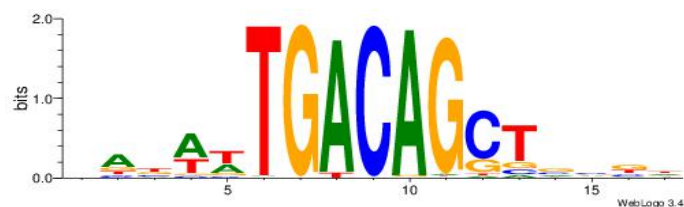
Motif ID: [UP00122](#)
 Motif name: Tgif1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 17
 Similarity score: 2.02534

Alignment:

DABWWTGACAGCTVVBD-----
 -----TGGAGCACTGTGACAVCACAGTGG

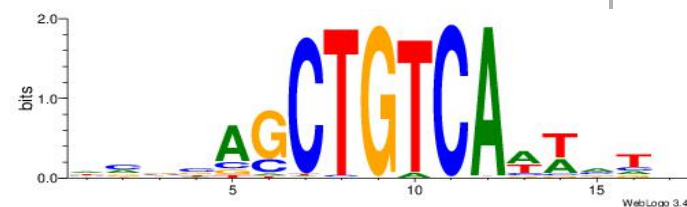
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWWVTH



Motif ID: [UP00159](#)
 Motif name: Six2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 17
 Similarity score: 2.02571

Alignment:

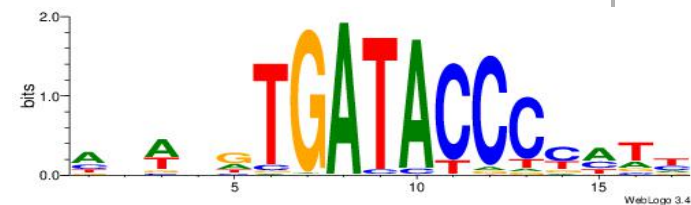
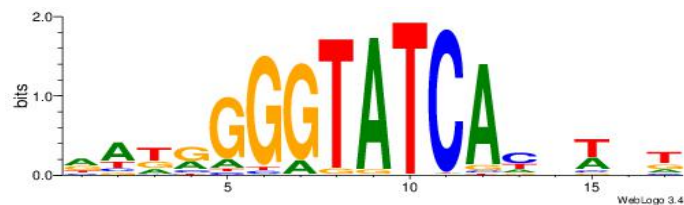
-----AHWDGTGATACCCMRTD
 CCACTGTGVTGTCACAGTGCTCCA-----

Original motif

Consensus sequence: DAKRGGGTATCACDWHT

Reverse complement motif

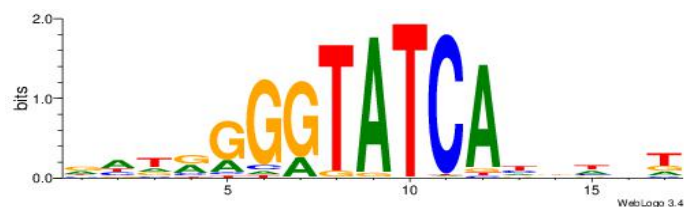
Consensus sequence: AHWDGTGATACCCMRTD



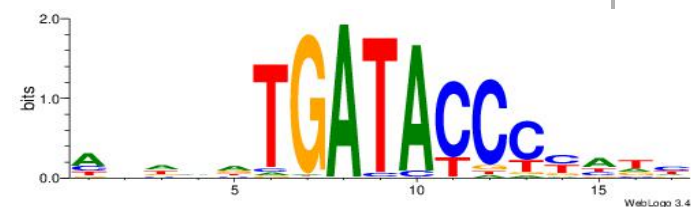
Motif ID: [UP00192](#)
 Motif name: Six1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 17
 Similarity score: 2.02892

Alignment:
 AVHDHTGATACCCMDHH-----
 --CCACTGTGVTGTACAGTGCTCCA

Original motif
 Consensus sequence: DHDRGGGTATCAHDHBT



Reverse complement motif
 Consensus sequence: AVHDHTGATACCCMDHH



Motif ID: [UP00076](#)
 Motif name: Rfxdc2_secondary

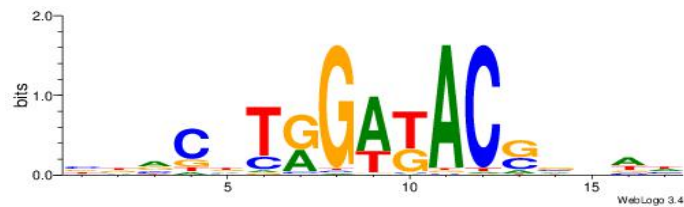
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 17
 Similarity score: 2.0292

Alignment:

HDDVSGTRTCMADGBVB-----
 ---CCACTGTGVTGTCACAGTGCTCCA

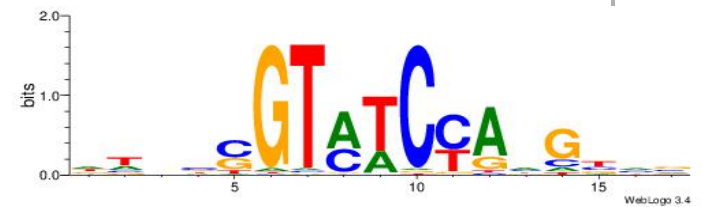
Original motif

Consensus sequence: BBVCDTRGAKACSVDDH



Reverse complement motif

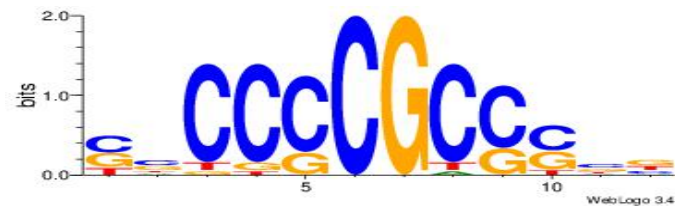
Consensus sequence: HDDVSGTRTCMADGBVB



Dataset #: 2 **Motif ID: 24** **Motif name: ssCCCCGCSSsk**

Original motif

Consensus sequence: SBCCCCGCCSBB



Reverse complement motif

Consensus sequence: BBSGGCGGGGBS



Best Matches for Motif ID 24 (Highest to Lowest)

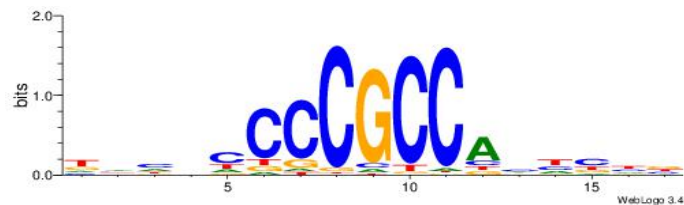
Motif ID: [UP00000](#)
Motif name: Smad3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0114847

Alignment:

DHHBCCCCGCCAHHBHB
--SBCCCCGCCSBB---

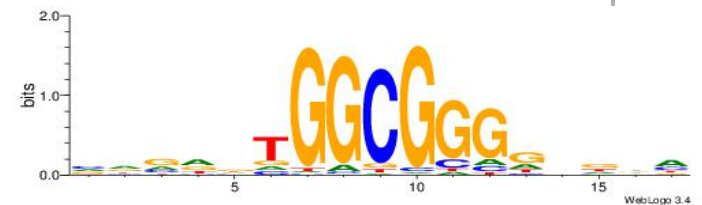
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0165262

Alignment:

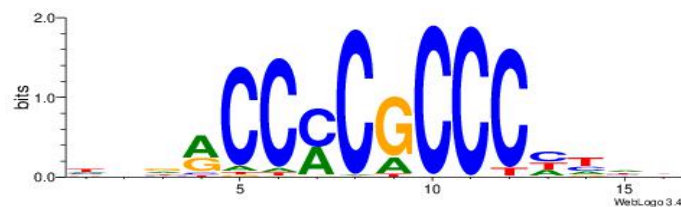
```

HBDRCMCGCCCHHD
--SBCCCCGCCSBB--

```

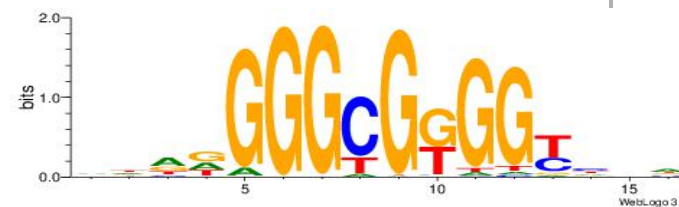
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



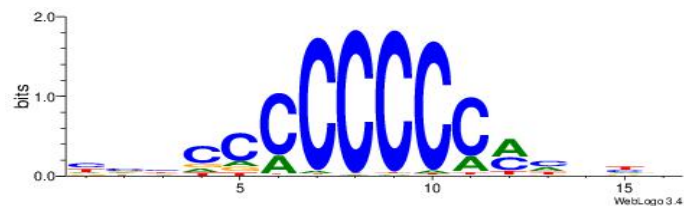
Motif ID:	UP00022
Motif name:	Zfp740_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0276137

Alignment:

HVBCCCCCCCCMHHHB
--SBCCCCGCCSBB--

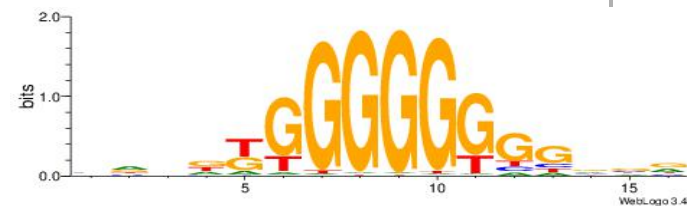
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Motif ID: [UP00003](#)
Motif name: E2F3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0328578

Alignment:

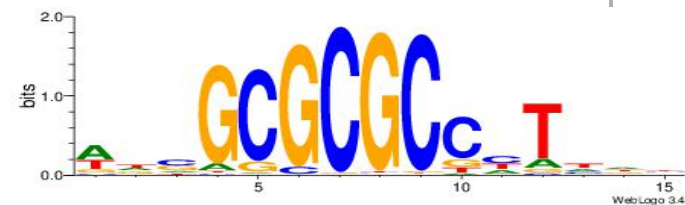
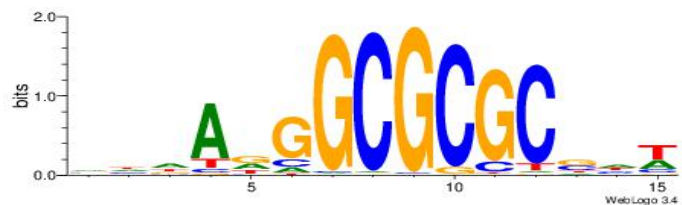
WHS GCGCGCCHTDHB
-SBCCCCGCCSBB--

Original motif

Consensus sequence: VHDADGGCGCGCSHW

Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB

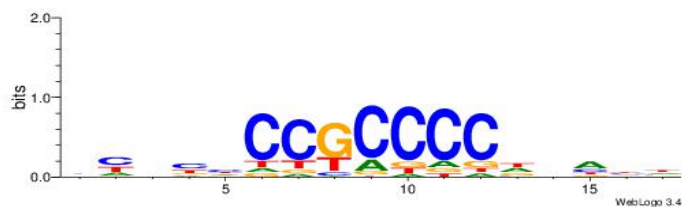


Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0336734

Alignment:
 BHHBHCCGCCCCDHHHH
 -SBCCCCGCCSBB----

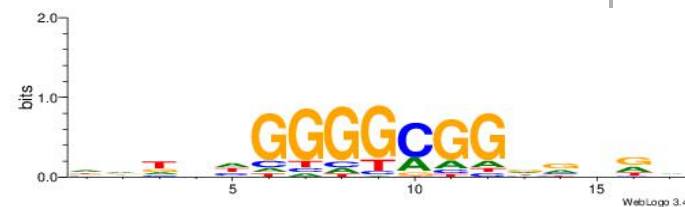
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



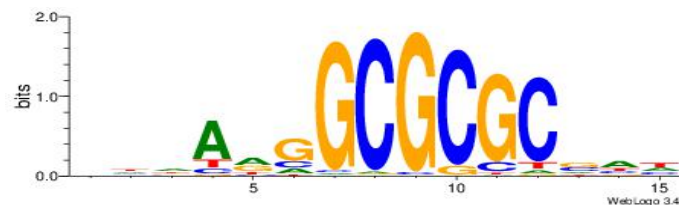
Motif ID: [UP00001](#)

Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0345737

Alignment:
 HHVGCGCGCCKTDHB
 -SBCCCCGCCSBB--

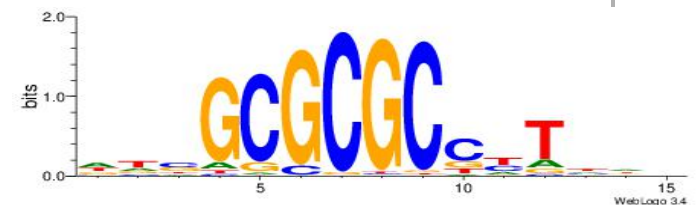
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB



Motif ID: [UP00099](#)
 Motif name: Ascl2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12

Similarity score: 0.0347468

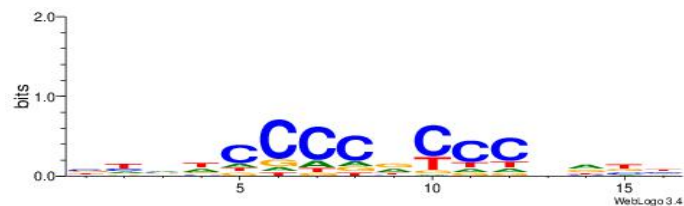
Alignment:

HVDVGGGHGGGGDBHB

--BBSGGCGGGGBS--

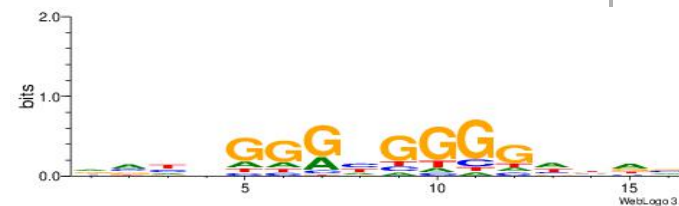
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0358124

Alignment:

BHHHWGGGGCGGBBVH

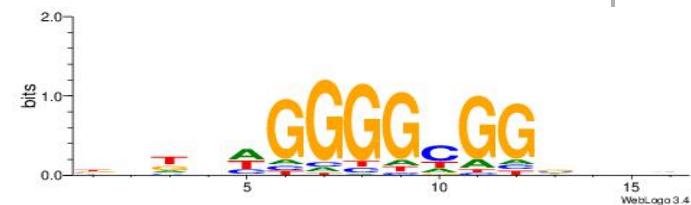
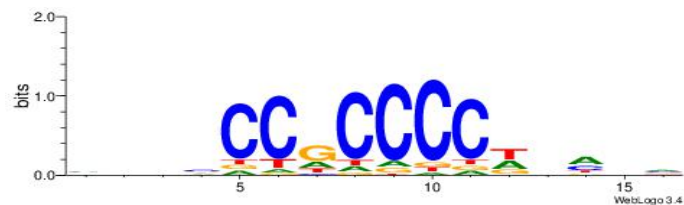
--BBSGGCGGGGBS--

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



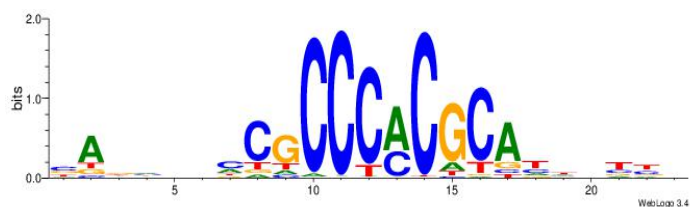
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 12
 Similarity score: 0.0365354

Alignment:

```
BADHBDHCGCCCMCGCAHHDBBV
-----SBCCCCGCCSBB----
```

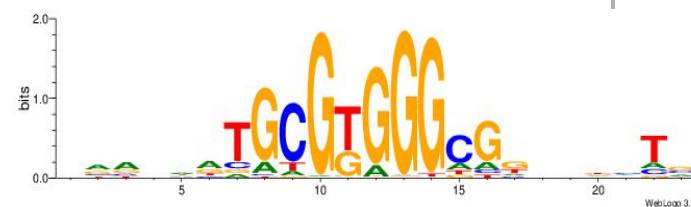
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



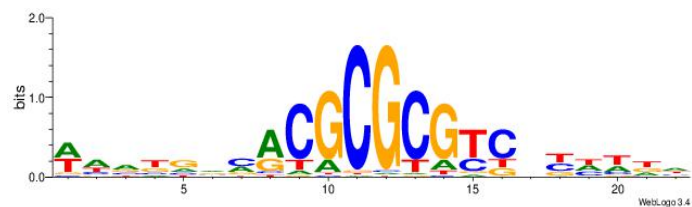
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 12
 Similarity score: 0.0389727

Alignment:

HDWHMHGACGCGCGTRBVVBHW
 -----BBSGGCGGGGBS-----

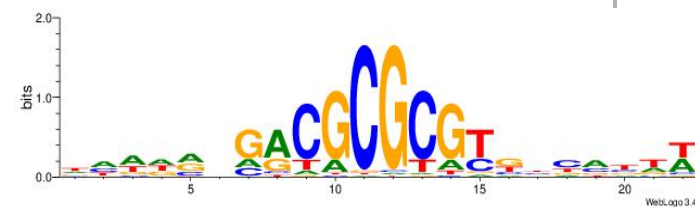
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



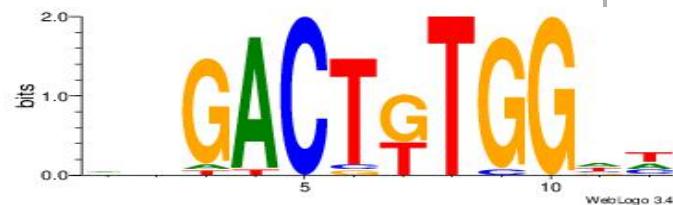
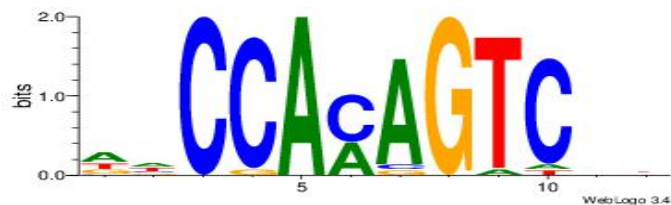
Dataset #: 2 Motif ID: 25 Motif name: wwCCAmAGTCmt

Original motif

Consensus sequence: DDCCAMAGTCHB

Reverse complement motif

Consensus sequence: VDGACTRTGGDD



Best Matches for Motif ID 25 (Highest to Lowest)

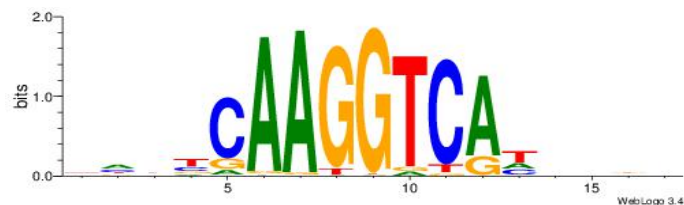
Motif ID: [UP00079](#)
 Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.00927341

Alignment:

DHDBCAAGGTCAHVBDH
 -DDCCAMAGTCHB-----

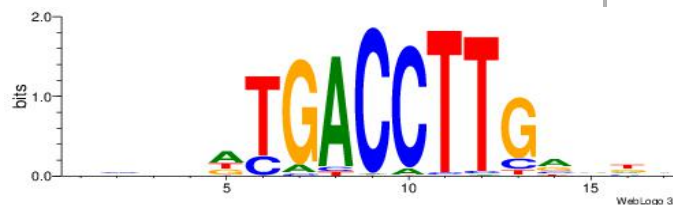
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

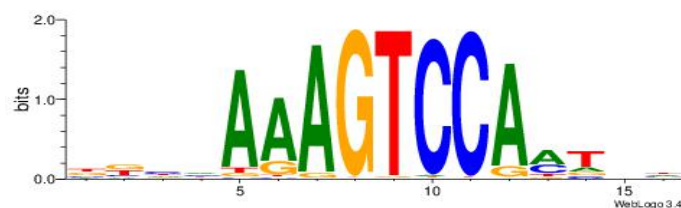


Motif ID: [UP00066](#)
 Motif name: Hnf4a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0157554

Alignment:
 BBHHAAAGTCCAMTHH
 DDCCAMAGTCHB----

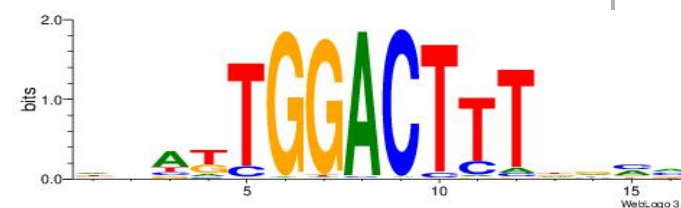
Original motif

Consensus sequence: BBHHAAAGTCCAMTHH



Reverse complement motif

Consensus sequence: HHAYTGGACTTTHDBV

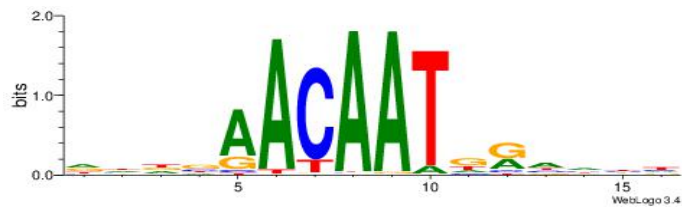


Motif ID: [UP00023](#)
 Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12

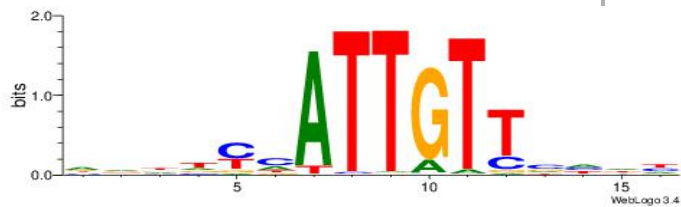
Similarity score: 0.0218941

Alignment:
DHDBAACAATDRHHHH
--VDGACTRTGGDD--

Original motif
Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif
Consensus sequence: HHHHMHATTGTTBDHD

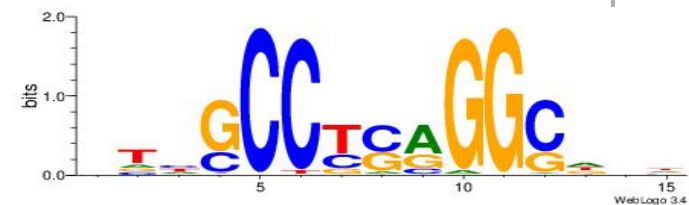
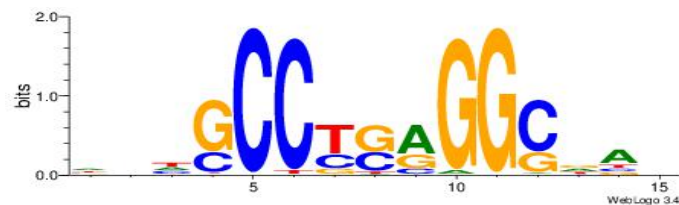


Motif ID: [UP00028](#)
Motif name: Tcfap2e_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.023236

Alignment:
DTHGCCTSAGGCHHH
--DDCCAMAGTCHB--

Original motif
Consensus sequence: HHHGCCTSAGGCDAD

Reverse complement motif
Consensus sequence: DTHGCCTSAGGCHHH



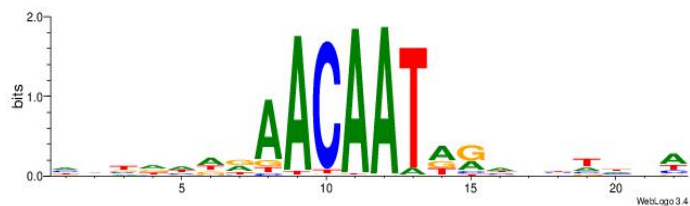
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 12
 Similarity score: 0.0235871

Alignment:

HHBDHDDAACAATDRHHHHHBW
 -----VDGACTRTGGDD-----

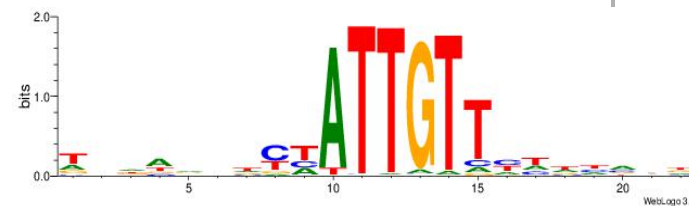
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



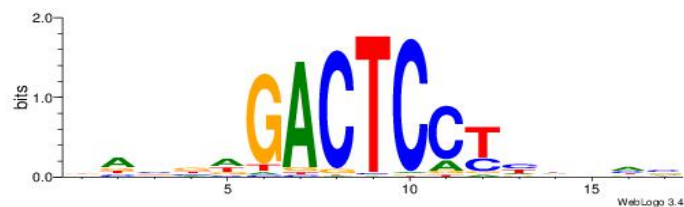
Motif ID: [UP00095](#)
 Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0240897

Alignment:

VHBDDAGGAGTCWBBTD
 --DDCCAMAGTCHB---

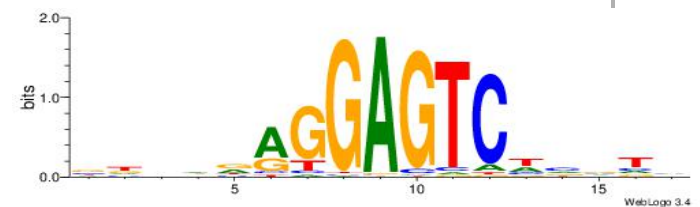
Original motif

Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2

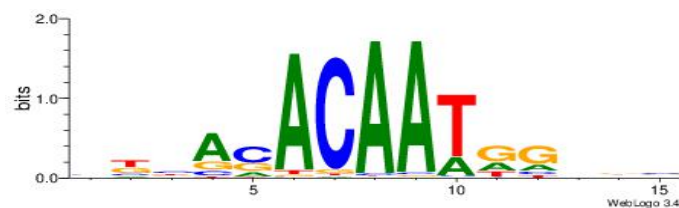
Number of overlap: 12
Similarity score: 0.025783

Alignment:

BKBASACAATRGHBB
--VDGACTRTGGDD--

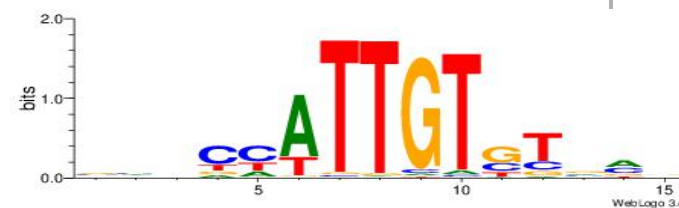
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



Motif ID: [UP00081](#)
Motif name: Mybl1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.026472

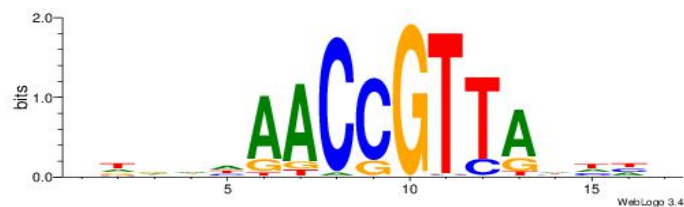
Alignment:

HDDDHAACCGTTAHHHD
---VDGACTRTGGDD--

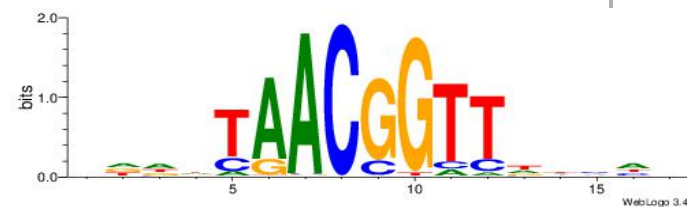
Original motif

Reverse complement motif

Consensus sequence: HDDDHAACCGTTAHHHD



Consensus sequence: DHHHTAACGGTTHDHDH



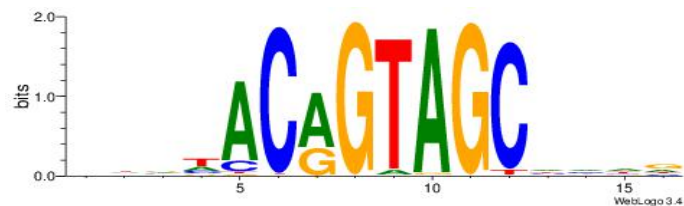
Motif ID: [UP00052](#)
Motif name: Osr2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.027027

Alignment:

HHHHGCTACKGTHVHH
---DDCCAMAGTCHB---

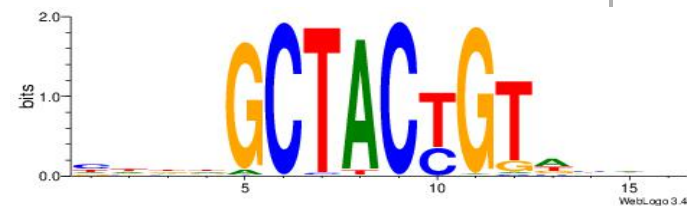
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



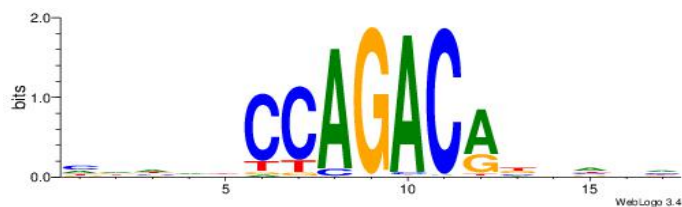
Motif ID: [UP000000](#)
 Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0270662

Alignment:

HVHBVTGTCTGGDDHDD
 --VDGACTRTGGDD---

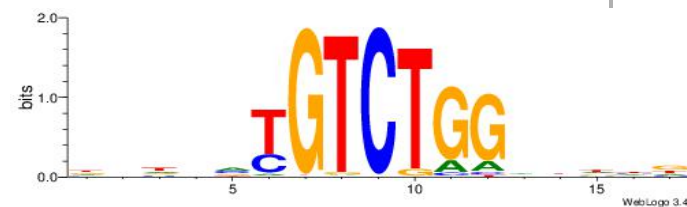
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



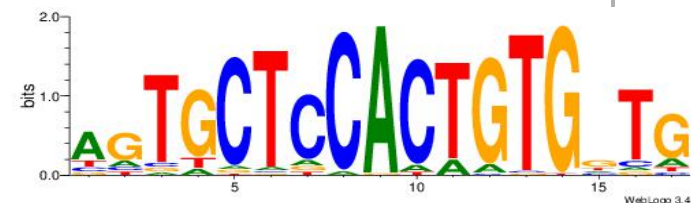
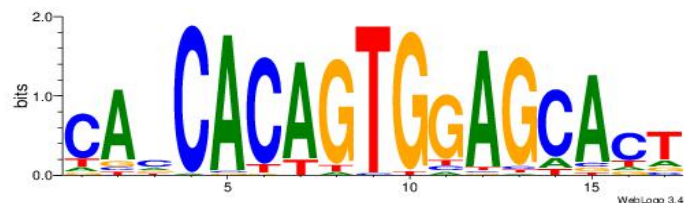
Dataset #: 2 Motif ID: 26 Motif name: CACACAGTGGAGCACT

Original motif

Consensus sequence: CAHCACAGTGGAGCACT

Reverse complement motif

Consensus sequence: AGTGCTCCACTGTGDTG



Best Matches for Motif ID 26 (Highest to Lowest)

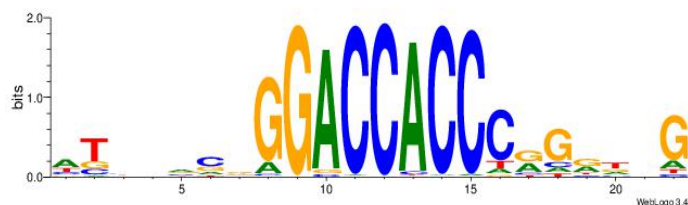
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 17
 Similarity score: 0.0381337

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 -CAHCACAGTGGAGCACT----

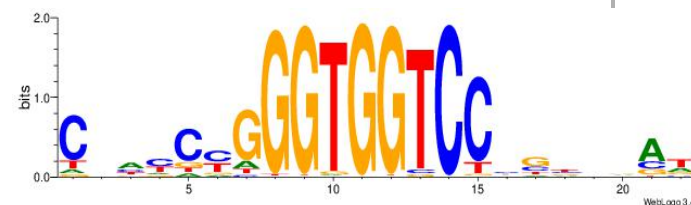
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

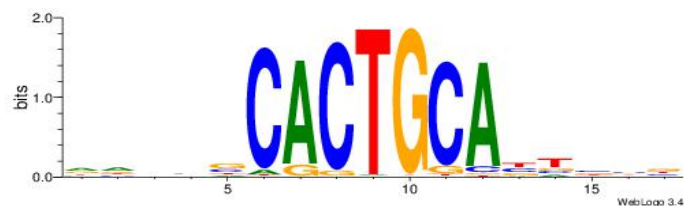


Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0393208

Alignment:
 BBBAVTGCAGTGBBVDD
 AGTGCTCCACTGTGDTG

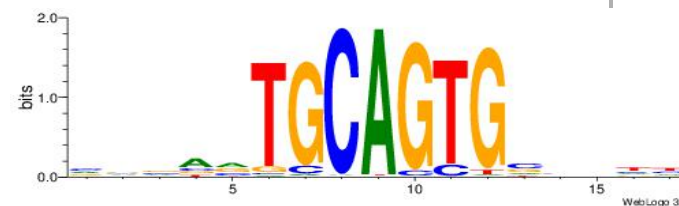
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

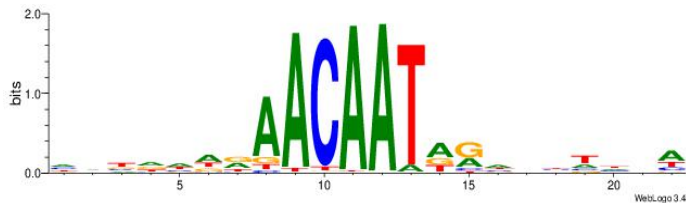


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 17

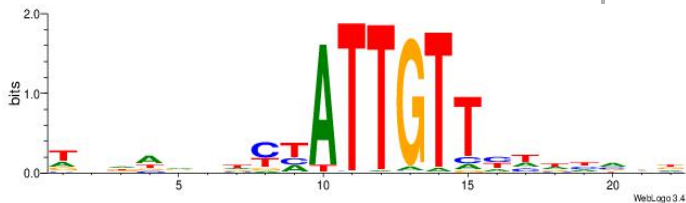
Similarity score: 0.0441166

Alignment:
HHBDHDDAACAATDRHHHHHBW
----CAHCACAGTGGAGCACT--

Original motif
Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

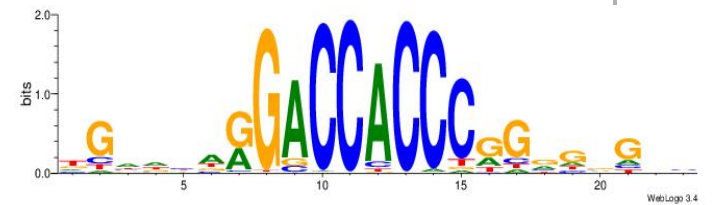
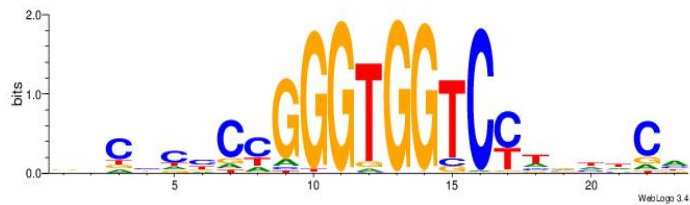


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.0477617

Alignment:
HGDHVKHKGACCAACCGGBGBGDB
---AGTGCTCCACTGTGDTG---

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH

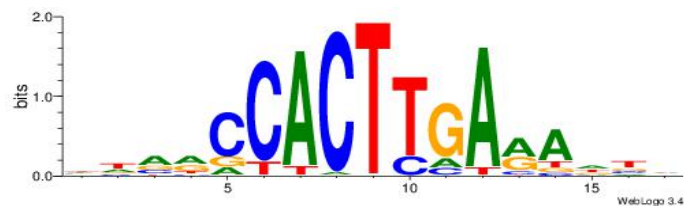
Reverse complement motif
Consensus sequence: HGDHVKHKGACCAACCGGBGBGDB



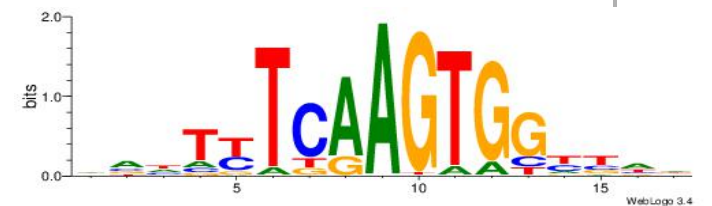
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0479423

Alignment:
 HDVRCCACTTGARADBD
 CAHCACAGTGGAGCACT

Original motif
 Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif
 Consensus sequence: DVDTKTCAAGTGGKBDH



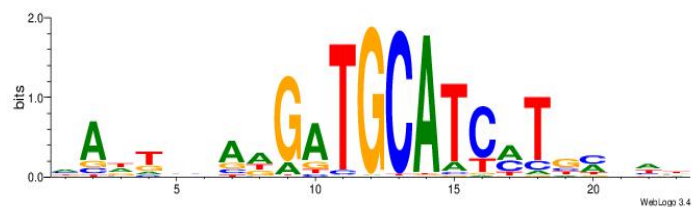
Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 17
 Similarity score: 0.0484681

Alignment:

VHVRCAYGATGCATCDTVVADTH
 -CAHCACAGTGGAGCACT-----

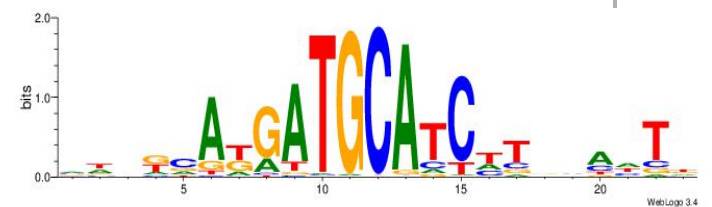
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH

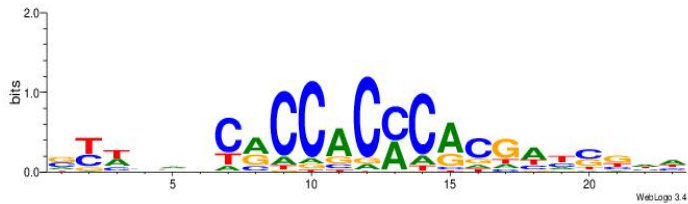


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1

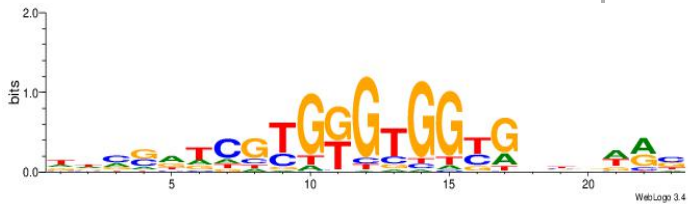
Number of overlap: 17
Similarity score: 0.0487437

Alignment:
HHBSHTCGTGRGTGGKGDBVWMV
AGTGCTCCACTGTGDTG-----

Original motif
Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



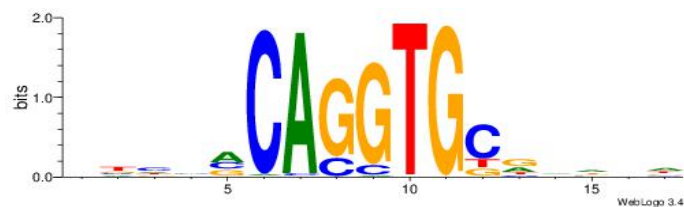
Motif ID: [UP00046](#)
Motif name: Tcfe2a_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.048891

Alignment:
DHDBHGCACCTGBDDVB
AGTGCTCCACTGTGDTG

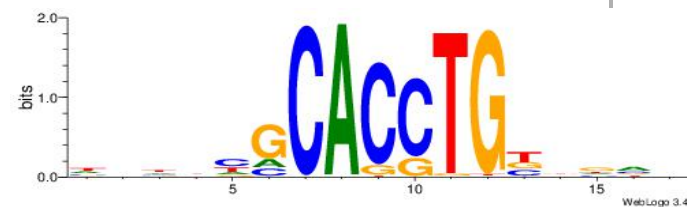
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



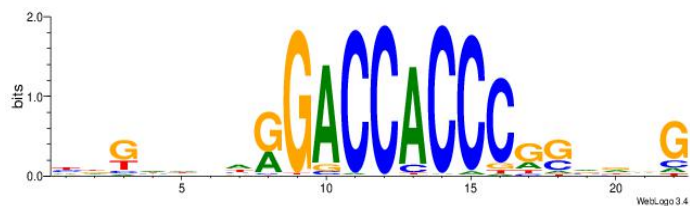
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 17
Similarity score: 0.0491352

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
-CAHCACAGTGGAGCACT-----

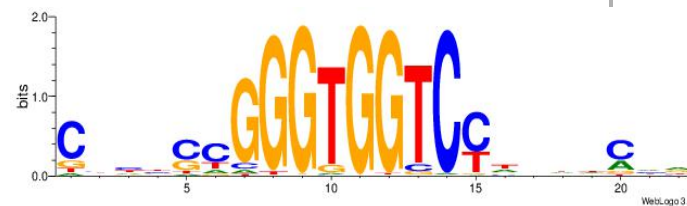
Original motif

Consensus sequence: HDGHHBHRGACCACCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



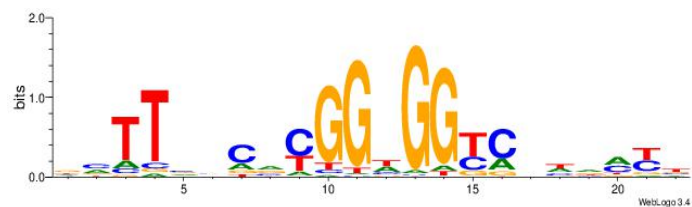
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 17
 Similarity score: 0.0515016

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
 ---CAHCACAGTGGAGCACT--

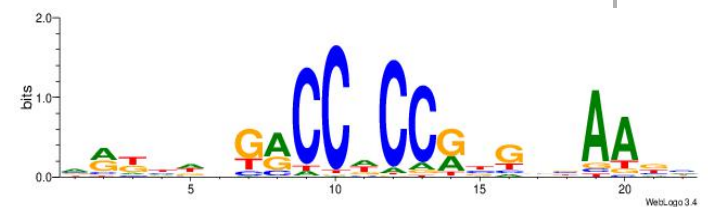
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



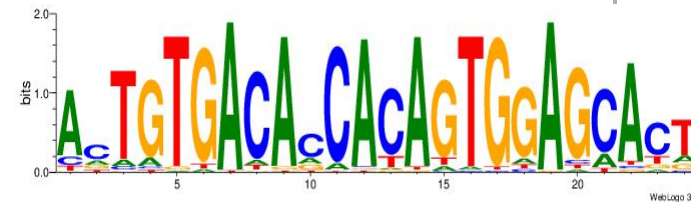
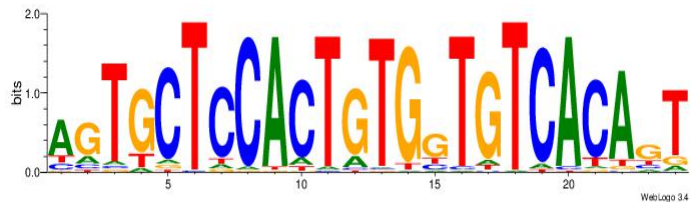
Dataset #: 2 Motif ID: 27 Motif name: AgTGCTCCACTGTGgTGTCACAgT

Original motif

Consensus sequence: AGTGCTCCACTGTGGTGTACAGT

Reverse complement motif

Consensus sequence: ACTGTGACACCACAGTGGAGCACT



Best Matches for Motif ID 27 (Highest to Lowest)

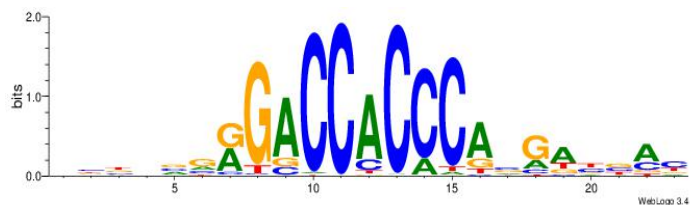
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0509731

Alignment:

BBBDVVRGACCACCCAVGABBAB-
 ACTGTGACACCACAGTGGAGCACT

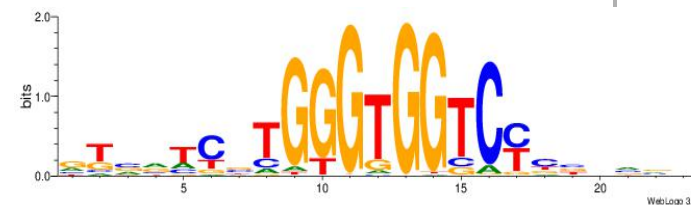
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



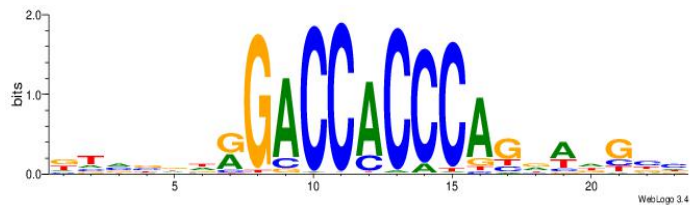
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 21
 Similarity score: 1.0488

Alignment:

DTVBDDRGACCACCCAGDWDGBH---
 ---AGTGCTCCACTGTGGTGTACAGT

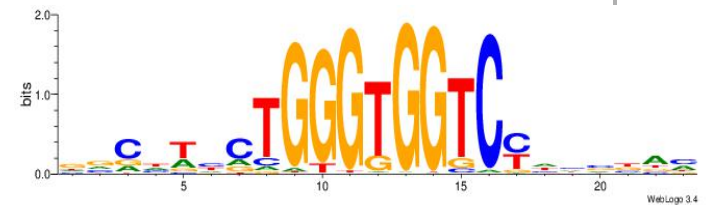
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH

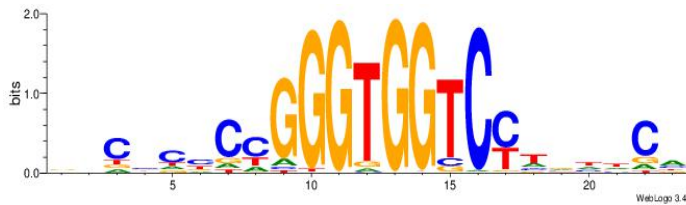


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 21

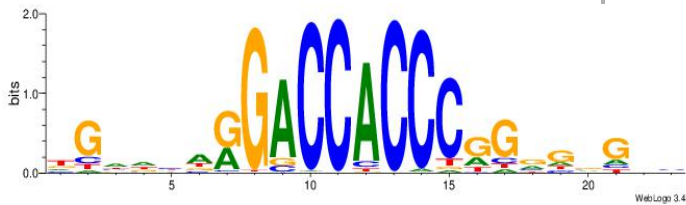
Similarity score: 1.05087

Alignment:
HGDHVHKGACCACCCGGBGBGDB---
--ACTGTGACACCACAGTGGAGCACT

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Reverse complement motif
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

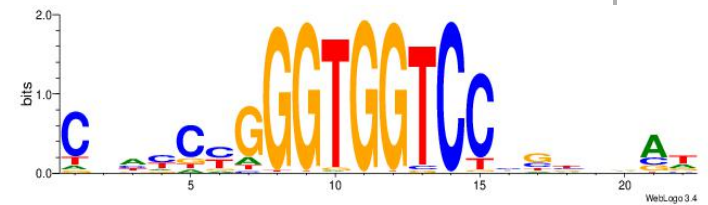
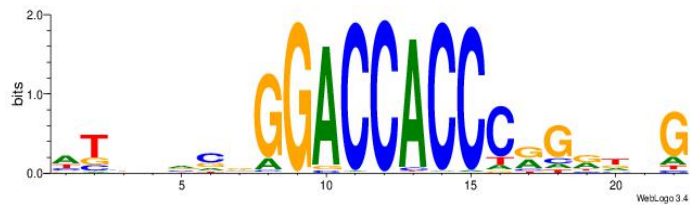


Motif ID: [UP00539](#)
Motif name: Gli2_v015681_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 18
Similarity score: 2.54748

Alignment:
-----CBDMCMGGGTGGTCCHVBVBAH
ACTGTGACACCACAGTGGAGCACT-----

Original motif
Consensus sequence: HTBVVDGGACCACCCRGRDBG

Reverse complement motif
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



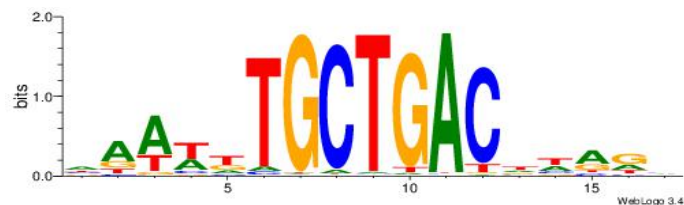
Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 3.0367

Alignment:

-----HAAWDTGCTGACDWARH
 AGTGCTCCACTGTGGTGTCACAGT

Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



Motif ID: [UP00055](#)
 Motif name: Hbp1_secondary

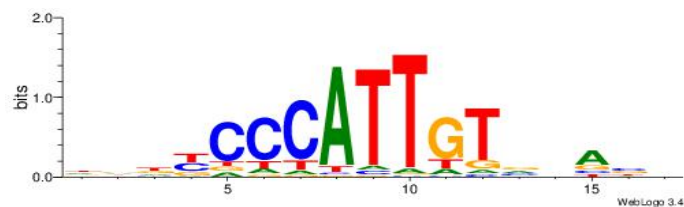
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 17
 Similarity score: 3.04028

Alignment:

-----DDDYCCCATTGTVHABH
 AGTGCTCCACTGTGGTGTCACAGT-----

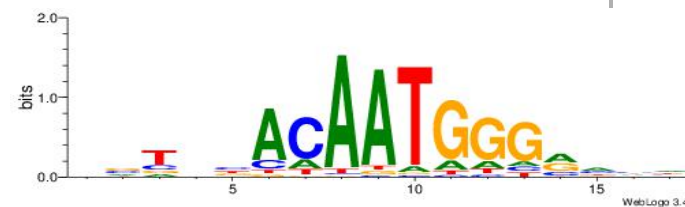
Original motif

Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif

Consensus sequence: HBTHVACAATGGGMDHD



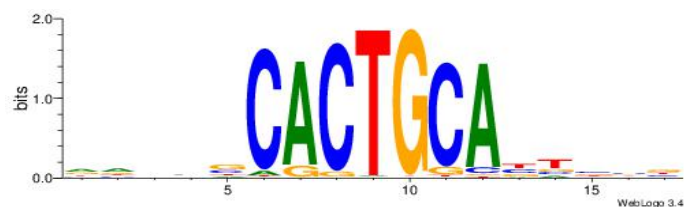
Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 3.04347

Alignment:

DDBBBCACTGCABTBBB-----
 AGTGCTCCACTGTGGTGTACACAGT

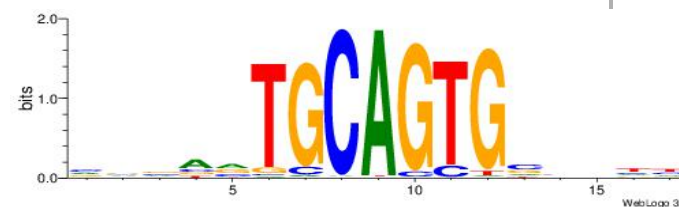
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID:	UP00067
Motif name:	Lef1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	17
Similarity score:	3.04662

Alignment:

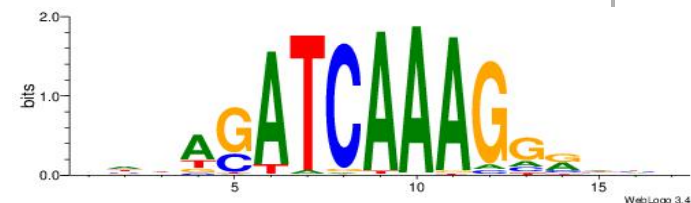
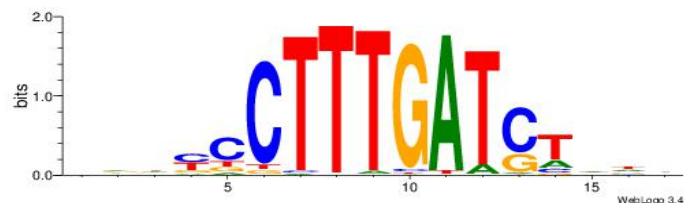
-----VDDAGATCAAAGGKDDD
 ACTGTGACACCACAGTGGAGCACT-----

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00070](#)
 Motif name: Gcm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 17
 Similarity score: 3.04663

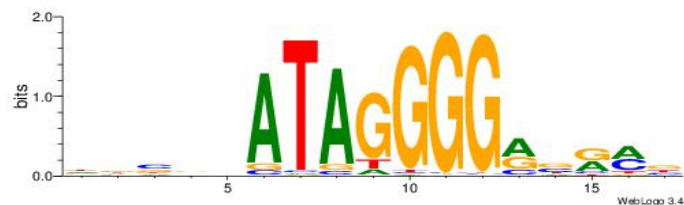
Alignment:

```

-----DDBVHATAGGGGRBRMB
AGTGCTCCACTGTGGTGTACAGT-----
  
```

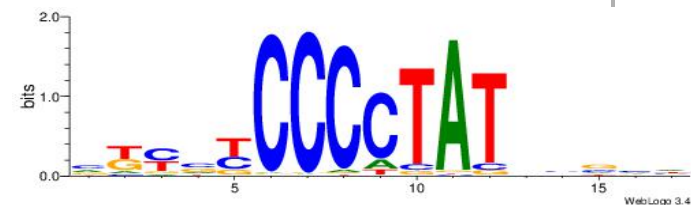
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCTATDVBHD



Motif ID: [UP00148](#)
 Motif name: Hdx

Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 17
 Similarity score: 3.04907

Alignment:

-----BDBDHTGATTTC DHYDD
 ACTGTGACACCACAGTGGAGCACT-----

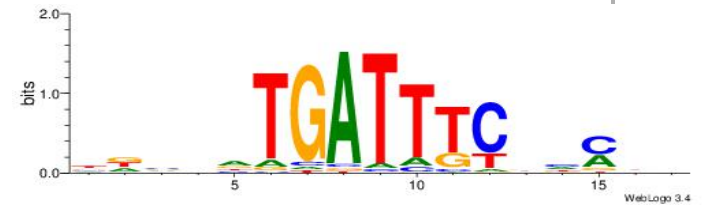
Original motif

Consensus sequence: DDKDHGAAATCAHHBHV



Reverse complement motif

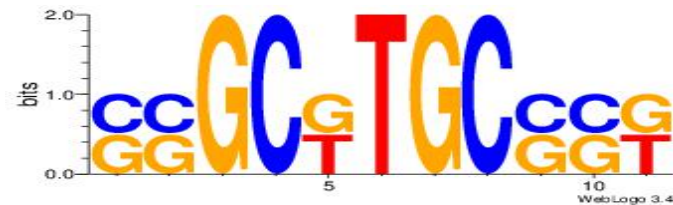
Consensus sequence: BDBDHTGATTTC DHYDD



Dataset #: 2 **Motif ID: 28** **Motif name: ssGCKTGCssk**

Original motif

Consensus sequence: SSGCKTGCSSK



Reverse complement motif

Consensus sequence: YSSGCAYGCSS



Best Matches for Motif ID 28 (Highest to Lowest)

Motif ID: [UP00003](#)
Motif name: E2F3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.00463328

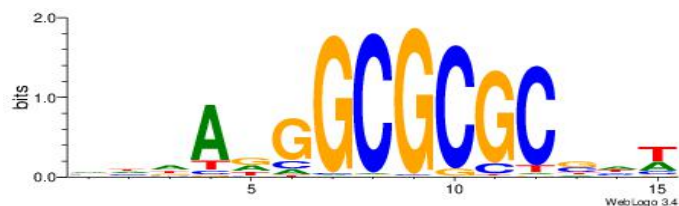
Alignment:

VHDADGGCGCGCSHW

----SSGCKTGCSSK

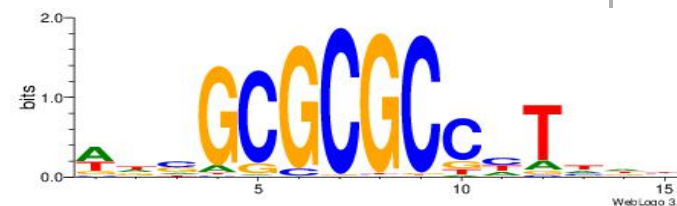
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHS GCGCGCCHTDHB



Motif ID: [UP00094](#)
Motif name: Zfp128_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward

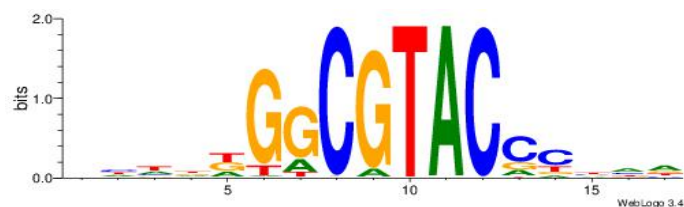
Position number: 3
Number of overlap: 11
Similarity score: 0.00482124

Alignment:

BHHDKGGCGTACCCBHD
-----SSGCKTGCSSK--

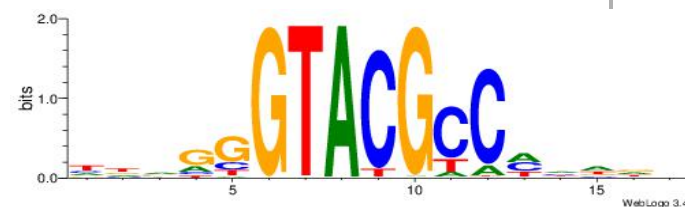
Original motif

Consensus sequence: BHHDKGGCGTACCCBHD



Reverse complement motif

Consensus sequence: DHVGGGTACGCCRDHDV



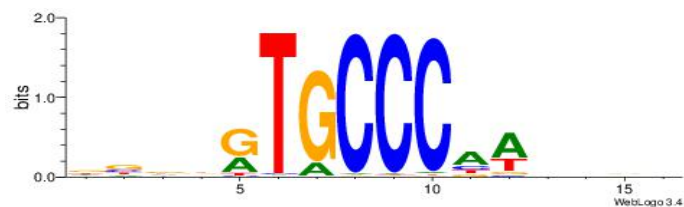
Motif ID: [UP00035](#)
Motif name: Hic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.00562779

Alignment:

VHHDWTGGGCAMDHBH
-----YSSGCAYGCSS

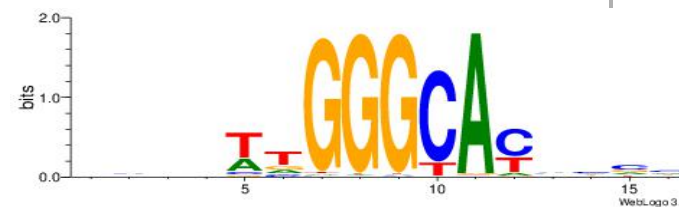
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.00595984

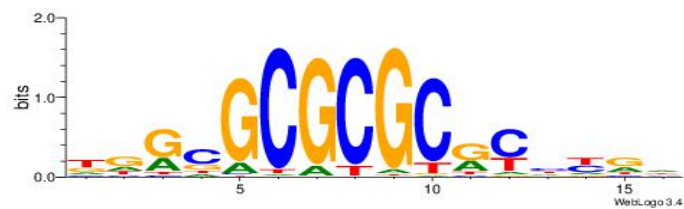
Alignment:

DDGCGCGCGCRCHYRD

--SSGCKTGCSSK---

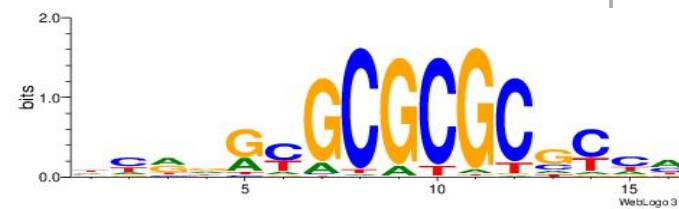
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



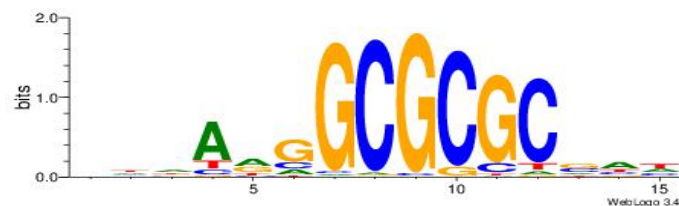
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00821725

Alignment:

HHVGCGCGCCKTDHB
 -SSGCKTGCSSK---

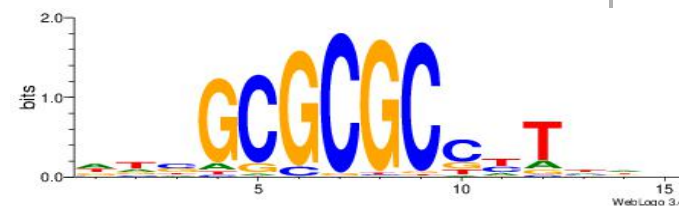
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB



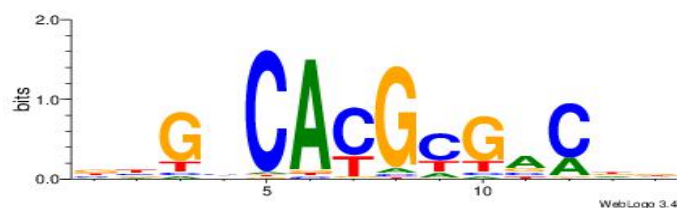
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1

Number of overlap: 11
Similarity score: 0.0109259

Alignment:
BBGHCACGCGACDD
---SSGCKTGCSSK

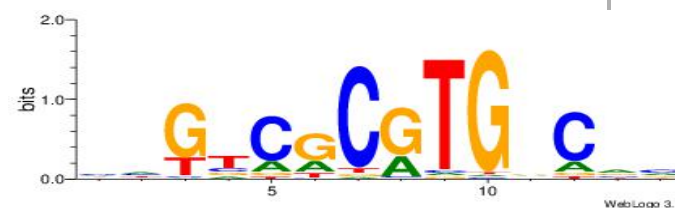
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



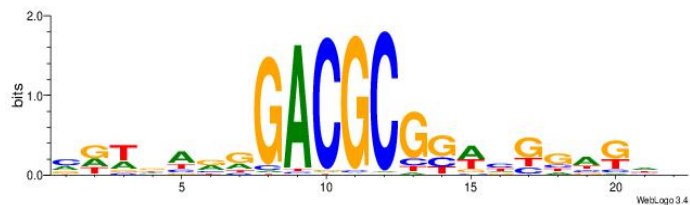
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0150199

Alignment:
VHYTCCDWCCGCGTCMMTHWHV
-----SSGCKTGCSSK---

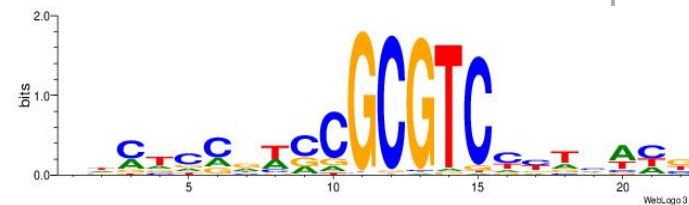
Original motif

Reverse complement motif

Consensus sequence: VDW DARRGACGCGGWHGGAKHV



Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



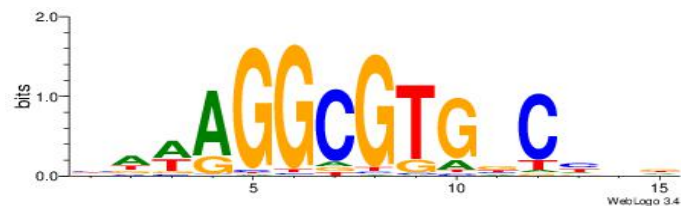
Motif ID: [UP00002](#)
Motif name: Sp4_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0160778

Alignment:

HHDGBCACGCCTWDB
-YSSGCAYGCSS---

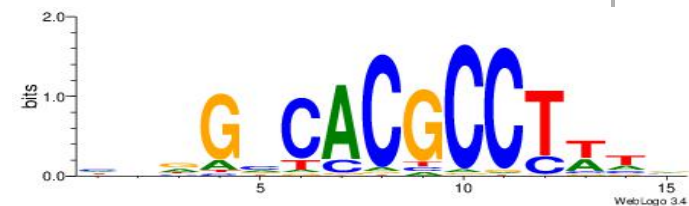
Original motif

Consensus sequence: BDWAGGCGTG BCHHD



Reverse complement motif

Consensus sequence: HH DGBCACGCCTWDB



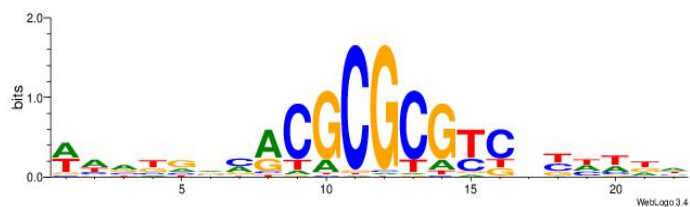
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0171602

Alignment:

HDWHMHGACGCGCGTRBVVBHW
 -----SSGCKTGCSSK--

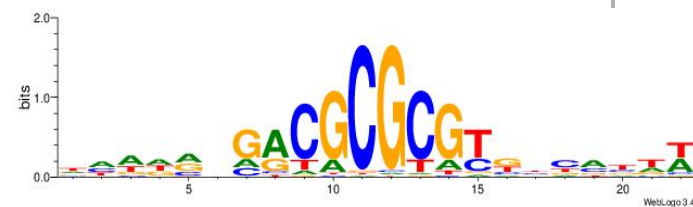
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7

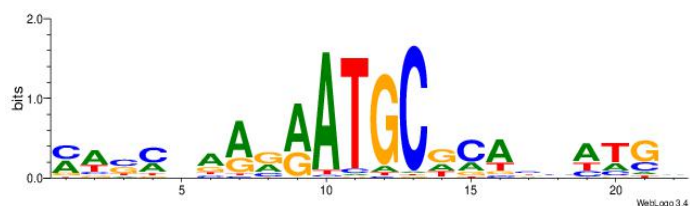
Number of overlap: 11
Similarity score: 0.0172713

Alignment:

DCATDBTGHGCATKMTTBRSWR
-----YSSGCAYGCSS-----

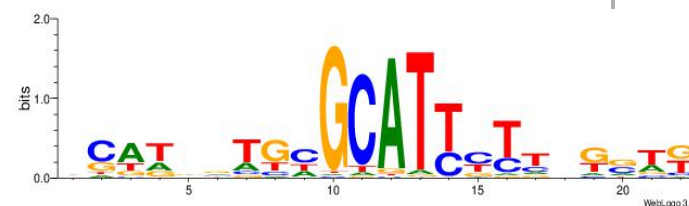
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Dataset #: 2 **Motif ID: 29** **Motif name: cCGCGGrCACG**

Original motif

Consensus sequence: CCGCGGRCACG



Reverse complement motif

Consensus sequence: CGTGKCCGCGG



Best Matches for Motif ID 29 (Highest to Lowest)

Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0220206

Alignment:

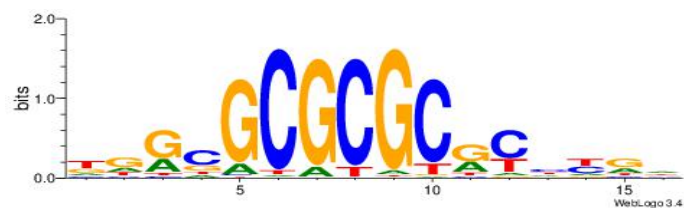
```

DDGCGCGCGCRCHYRD
----CCGCGGRCACG--

```

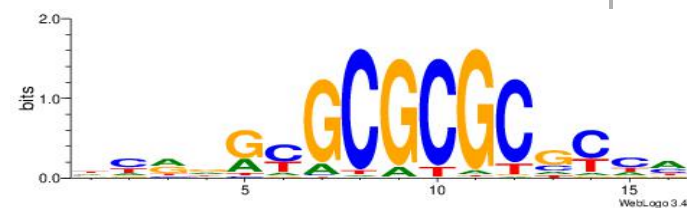
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



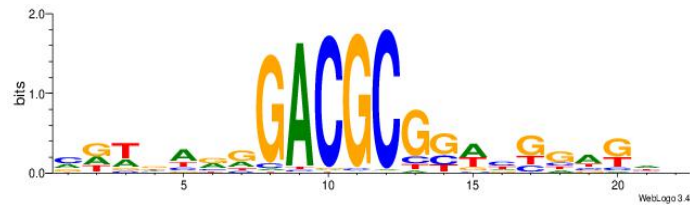
Motif ID:	UP00527
Motif name:	Foxn4_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.024575

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
---CGTGKCCGCGG-----

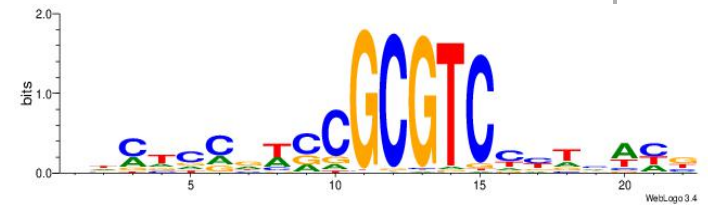
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID:	UP00042
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0279366

Alignment:

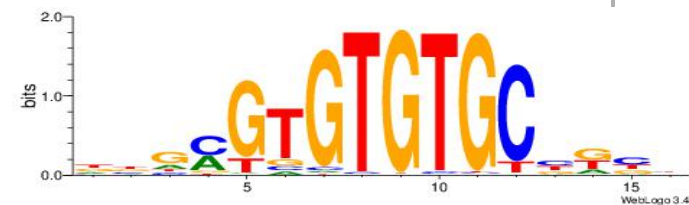
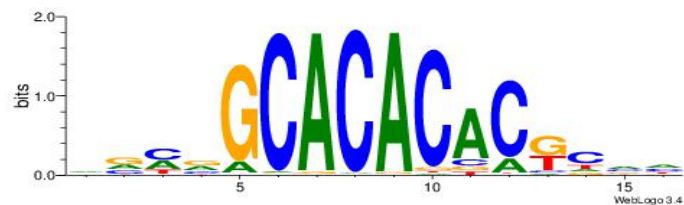
DVMVGCACACACKCVH
--CCGCGGRCACG---

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

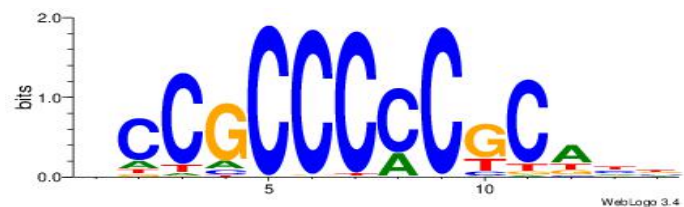
Consensus sequence: HBGYGTGTGTGCVRVD



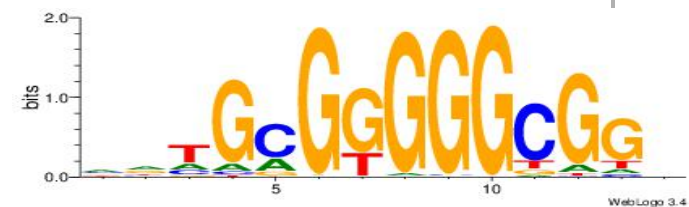
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0285381

Alignment:
 VHTGCGGGGGCGGH
 -CCGCGGRCACG--

Original motif
 Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif
 Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00050](#)

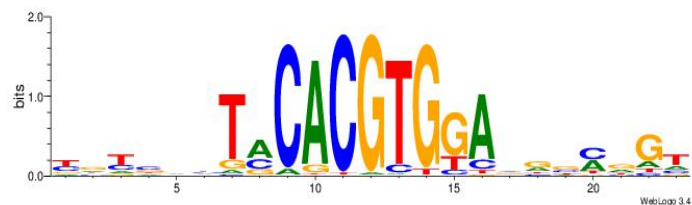
Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 11
 Similarity score: 0.0335378

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----CCGCGGRCACG-----

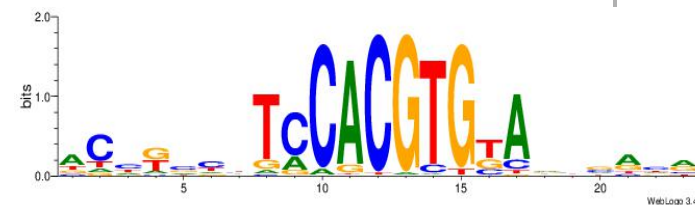
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 11

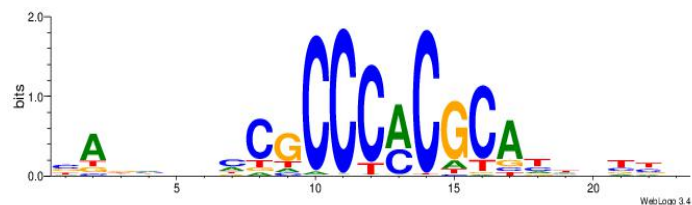
Similarity score: 0.0340428

Alignment:

VVVDHHTGCGYGGGCGDHHVHTB
-----CCGCGGRCACG-----

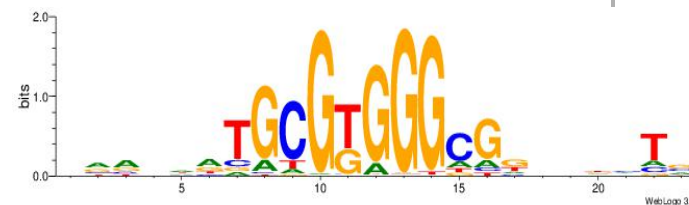
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



Motif ID: [UP00065](#)
Motif name: Zfp161_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0345855

Alignment:

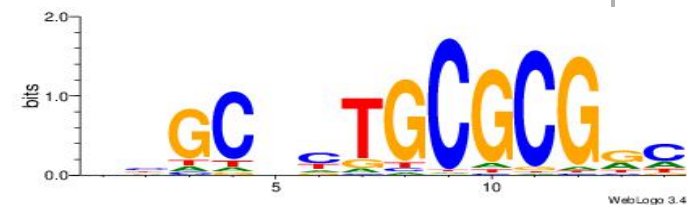
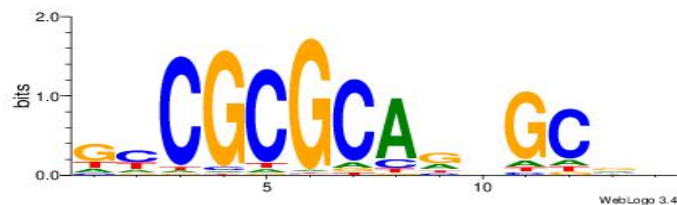
GYCGCGCARBGCVB
-CCGCGGRCACG--

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

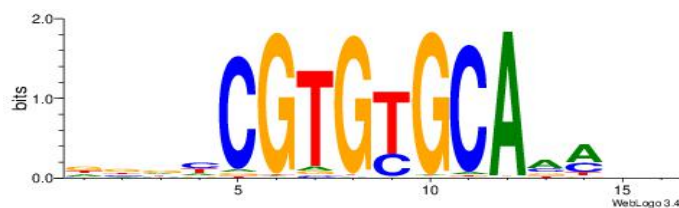
Consensus sequence: VVGCVMTGCGCGKC



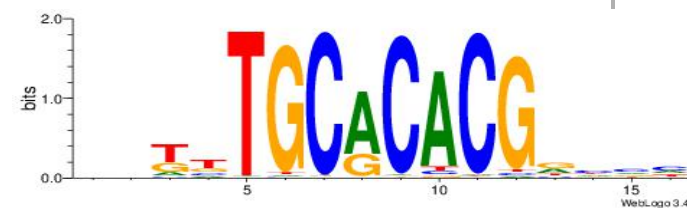
Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0350434

Alignment:
 DBDHCGTGTGCAAMDH
 ---CCGCGGRCACG--

Original motif
 Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif
 Consensus sequence: HDYTTGCACACGDH BH



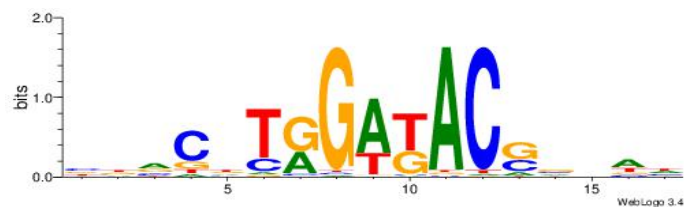
Motif ID: [UP00076](#)
 Motif name: Rfxdc2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0359928

Alignment:

HDDVSGTRTCMADGBVB
 ----CGTGKCCGCGG--

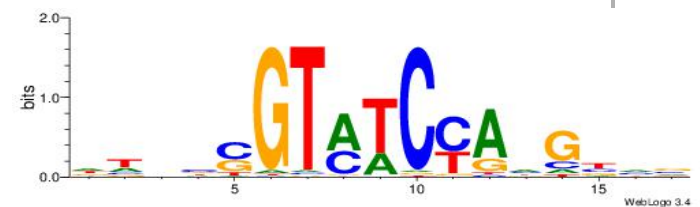
Original motif

Consensus sequence: BBVCDTRGAKACSVDDH



Reverse complement motif

Consensus sequence: HDDVSGTRTCMADGBVB



Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

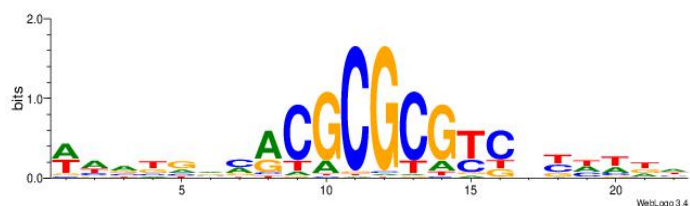
Number of overlap: 11
Similarity score: 0.0361963

Alignment:

HDWHMHGACGCGCGTRBVVBHW
-----CCGCGGRCACG--

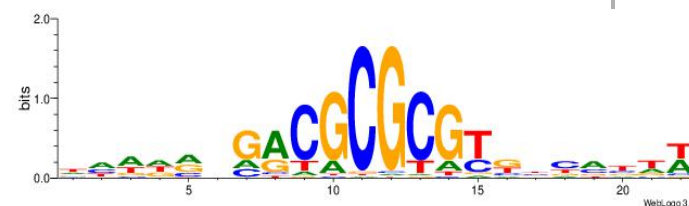
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 2 **Motif ID: 30** **Motif name: taaacgatgcc**

Original motif

Consensus sequence: TAAACGATGCC



Reverse complement motif

Consensus sequence: GGCATCGTTTA



Best Matches for Motif ID 30 (Highest to Lowest)

Motif ID: [UP00114](#)
Motif name: Homez
Species: Mus musculus

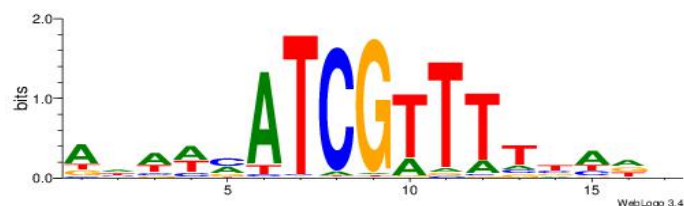
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0207645

Alignment:

```
HDTVAAAACGATRWWHT
----TAAACGATGCC--
```

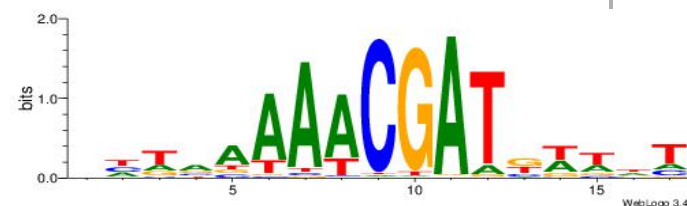
Original motif

Consensus sequence: AHWWMATCGTTTTBADD



Reverse complement motif

Consensus sequence: HDTVAAAACGATRWWHT



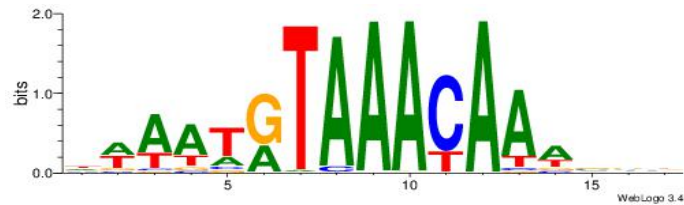
Motif ID:	UP00061
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0294316

Alignment:

VVVWTTGTTTAMATTWD
GGCATCGTTTA-----

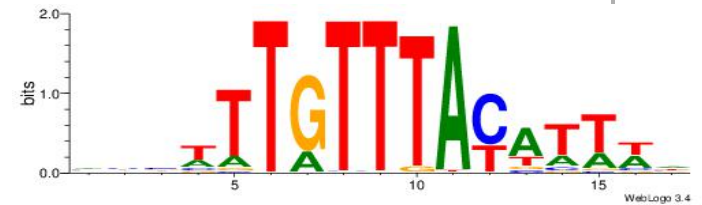
Original motif

Consensus sequence: DWAATRTAAACAAWVVB



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID:	UP00039
Motif name:	Foxj3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.030091

Alignment:

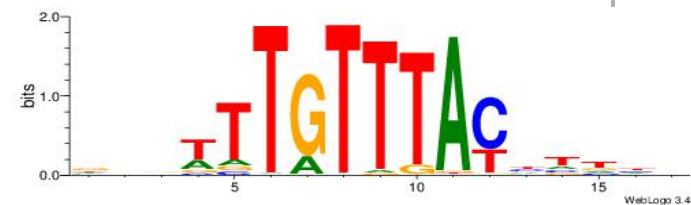
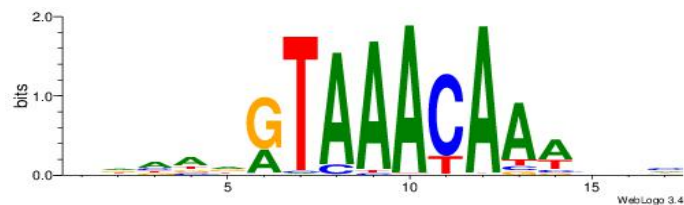
HDHADGTAAACAAVVH
-----TAAACGATGCC

Original motif

Consensus sequence: HDHADGTAAACAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH

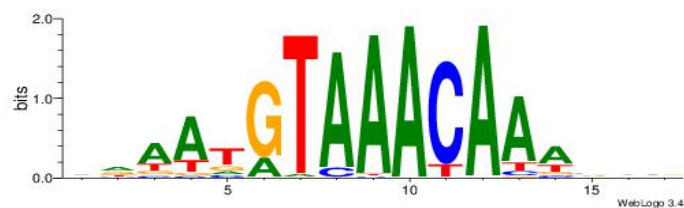


Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0306614

Alignment:
 BBVTTTGTTTACATTDD
 GGCATCGTTTA-----

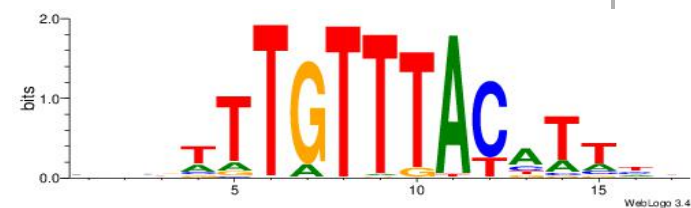
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00527](#)

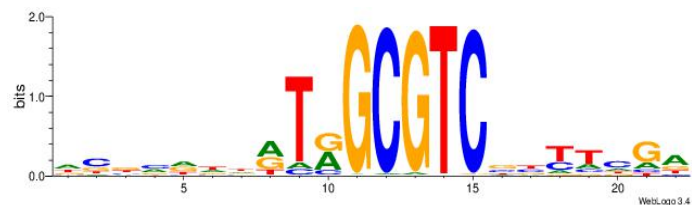
Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10
 Number of overlap: 11
 Similarity score: 0.0342477

Alignment:

DBBVDDDRTRGCGTCBBYTHGA
 -----GGCATCGTTTA--

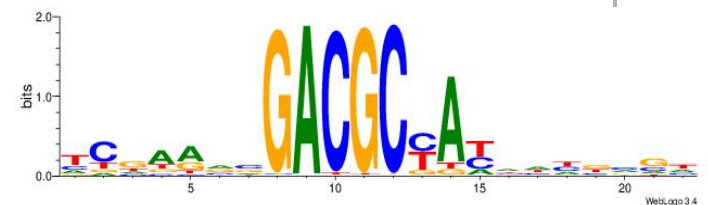
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBDD



Motif ID: [UP00040](#)
 Motif name: Irf5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11

Similarity score: 0.0345017

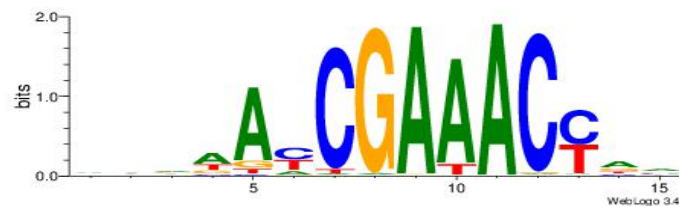
Alignment:

BDKGTTTCGKTWDDD

--GGCATCGTTTA--

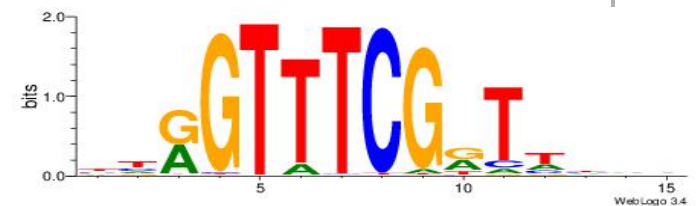
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD



Motif ID: [UP00528](#)
Motif name: Foxm1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0351616

Alignment:

VHVRCAYGATGCATCDTVVADTH

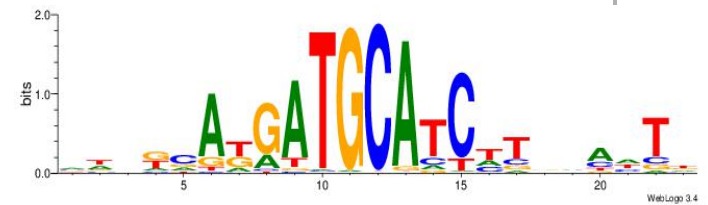
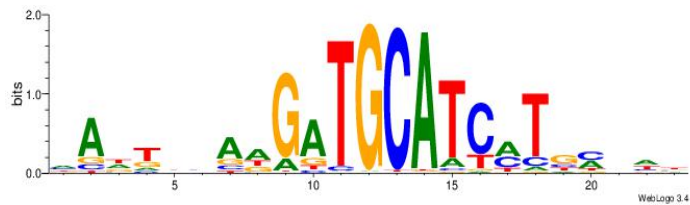
--TAAACGATGCC-----

Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB

Reverse complement motif

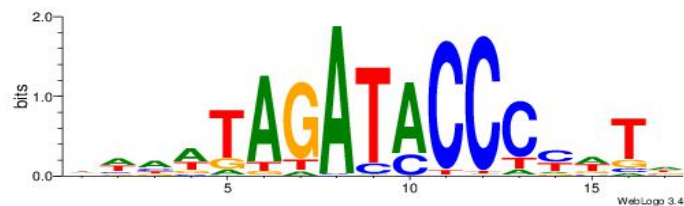
Consensus sequence: VHVRCAYGATGCATCDTVVADTH



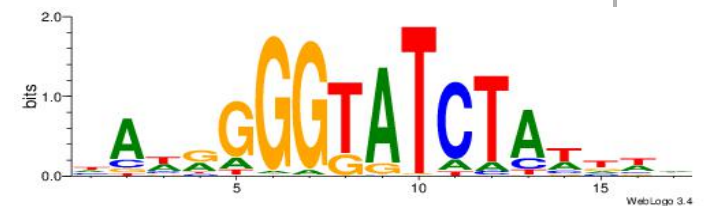
Motif ID: [UP00232](#)
 Motif name: Dobox4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0371486

Alignment:
 DAWKGGGTATCTAWHWH
 -----GGCATCGTTTA-

Original motif
 Consensus sequence: HWHWTAGATACCCYWTD



Reverse complement motif
 Consensus sequence: DAWKGGGTATCTAWHWH



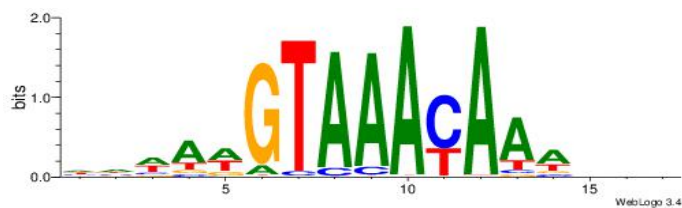
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0384798

Alignment:

BDVTTTKTTTACWTWHH
 GGCATCGTTTA-----

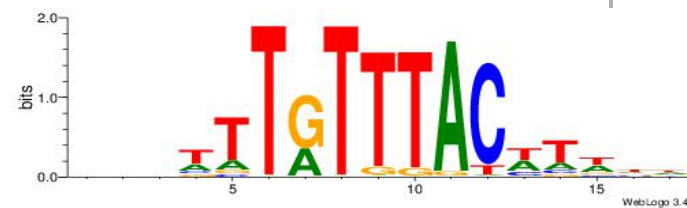
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00011](#)
 Motif name: Irf6_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

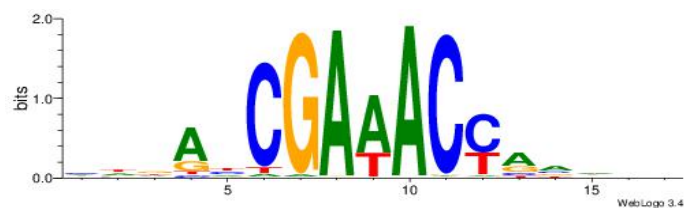
Number of overlap: 11
Similarity score: 0.0388532

Alignment:

DHDBTKGTTTCGHTHDD
-----GGCATCGTTTA--

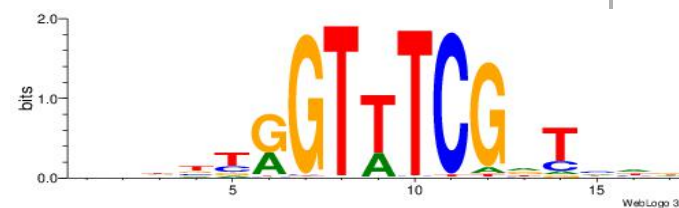
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Dataset #: 2 **Motif ID: 31** **Motif name: ctatacggacg**

Original motif

Consensus sequence: CTATACGGACG



Reverse complement motif

Consensus sequence: CGTCCGTATAG



Best Matches for Motif ID 31 (Highest to Lowest)

Motif ID: [UP00038](#)
Motif name: Spdef_primary
Species: Mus musculus

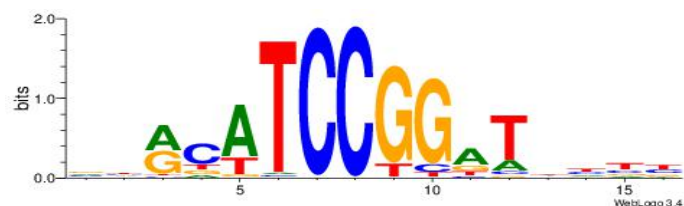
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.027939

Alignment:

```
VVHHATCCGGATGKHV
--CTATACGGACG---
```

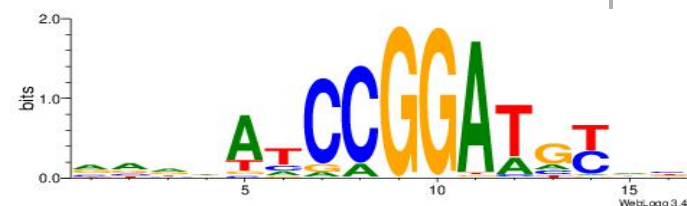
Original motif

Consensus sequence: VHRCATCCGGATHHBB



Reverse complement motif

Consensus sequence: VVHHATCCGGATGKHV



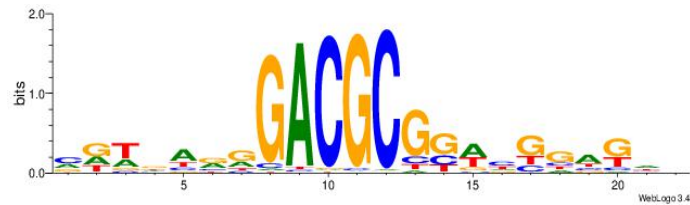
Motif ID:	UP00527
Motif name:	Foxn4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0308121

Alignment:

VDWDARRGACGCGGWHGGAKHV
CTATACGGACG-----

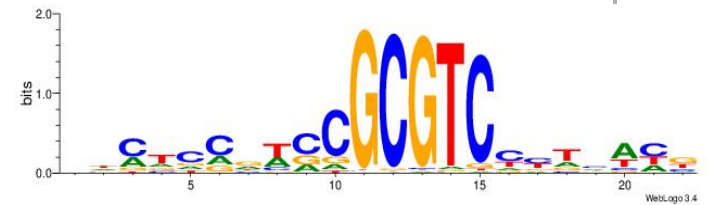
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID:

[UP00413](#)

Motif name:

Elf4

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Forward

Position number:

1

Number of overlap:

11

Similarity score:

0.0328673

Alignment:

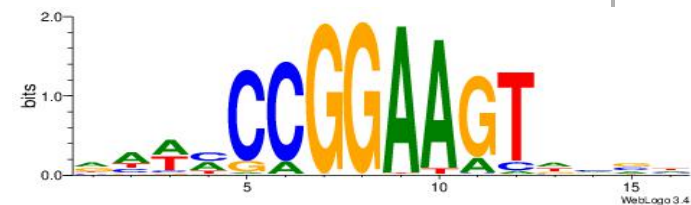
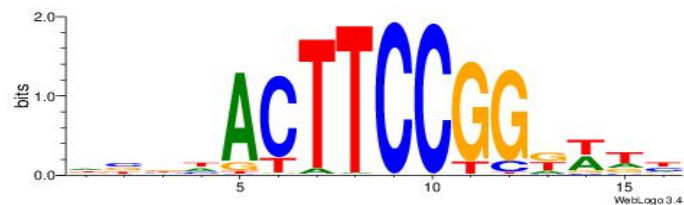
DBBHACTTCCGGKWTH
CTATACGGACG-----

Original motif

Consensus sequence: DBBHACTTCCGGKWTH

Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD

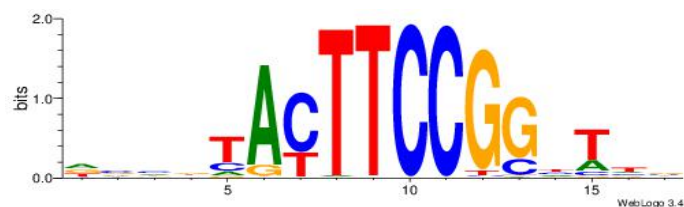


Motif ID: [UP00418](#)
 Motif name: Etv6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0334005

Alignment:
 BHAHCCGGAAGTABDVD
 -----CGTCCGTATAG

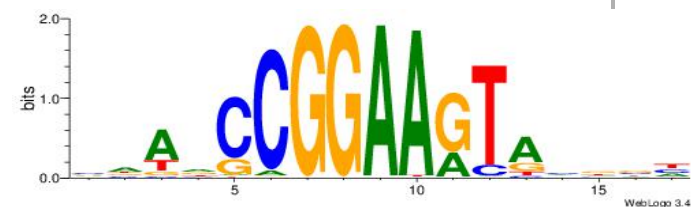
Original motif

Consensus sequence: DVHBTACTTCCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Motif ID: [UP00409](#)
 Motif name: Elf5

Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0336391

Alignment:
BWAHSMGGAAGTWD
CTATACGGACG---

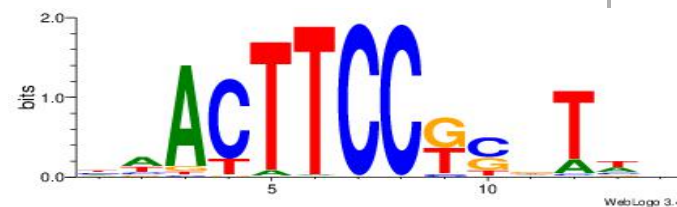
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCRSDTWV



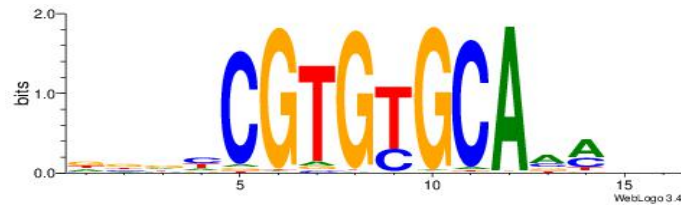
Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0346533

Alignment:

DBDHCGTGTGCAAMDH
----CGTCCGTATAG--

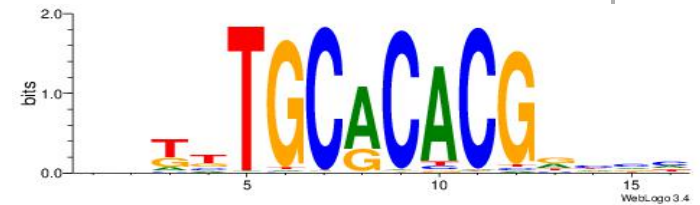
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBB



Motif ID:	UP00135
Motif name:	Hoxc12
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0360998

Alignment:

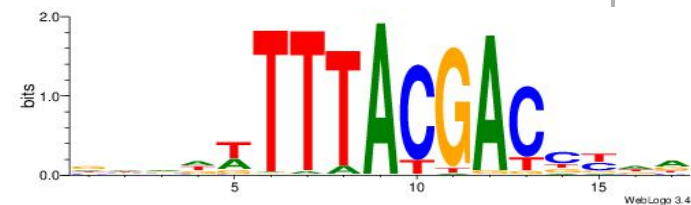
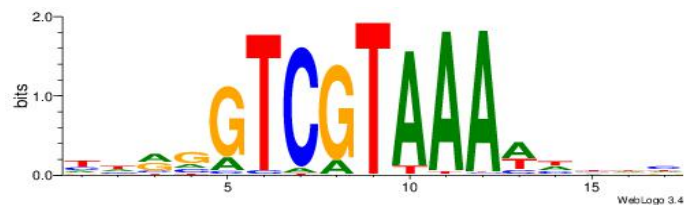
DDVHWTTTACGACCKHH
----CTATACGGACG--

Original motif

Consensus sequence: HHRGGTCGTAAAWHBDH

Reverse complement motif

Consensus sequence: DDVHWTTTACGACCKHH

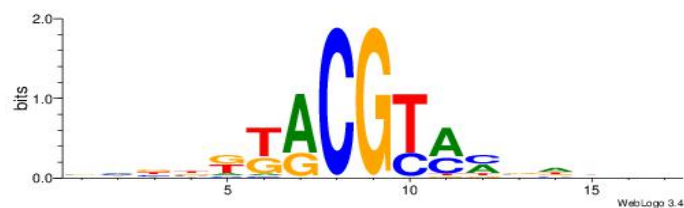


Motif ID: [UP00084](#)
 Motif name: Gmeb1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0365466

Alignment:
 BVVDVRYACGTRYVBHB
 ----CGTCCGTATAG--

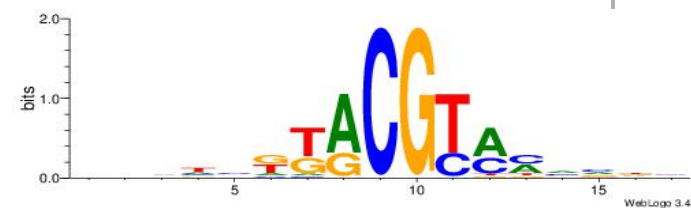
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



Motif ID: [UP00015](#)

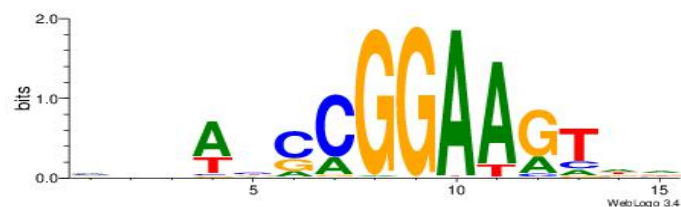
Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0367131

Alignment:

VBDABCCGGAAGTDD
 -CTATACGGACG---

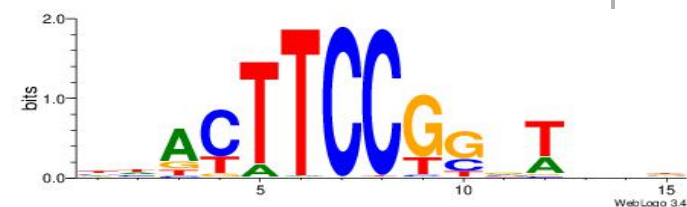
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



Motif ID: [UP00421](#)
 Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 11

Similarity score: 0.0373

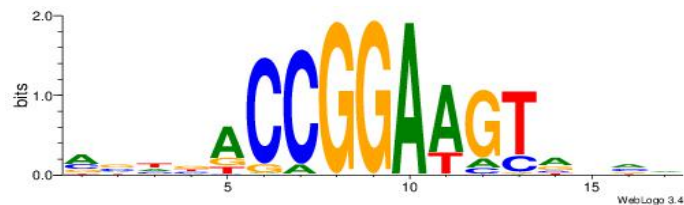
Alignment:

HBDBACTTCCGGTBHVY

-----CGTCCGTATAG--

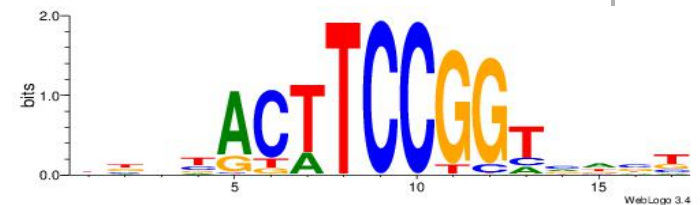
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 2 **Motif ID: 32** **Motif name: gCGCGCsCgsG**

Original motif

Consensus sequence: GCGCGCSCGCG



Reverse complement motif

Consensus sequence: CGCGSGCGCGC



Best Matches for Motif ID 32 (Highest to Lowest)

Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

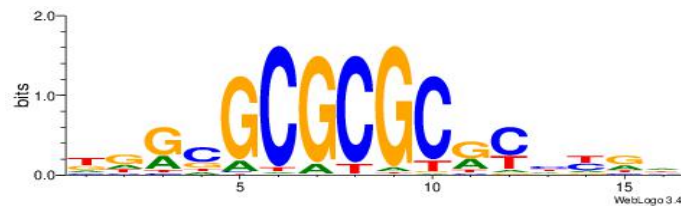
```

DMMDGMGCGCGCGCHD
----GCGCGCSCGCG--

```

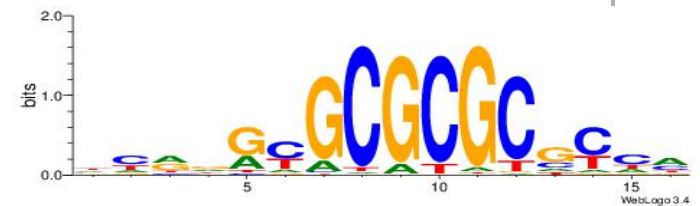
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



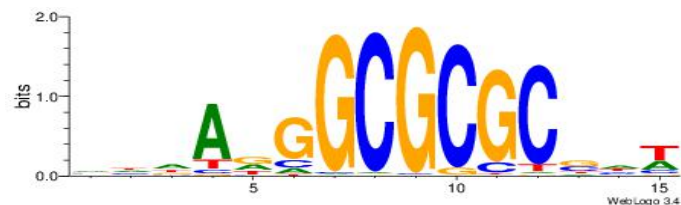
Motif ID:	UP00003
Motif name:	E2F3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0102009

Alignment:

WHSGCGCGCCHTDHB
CGCGSGCGCGC-----

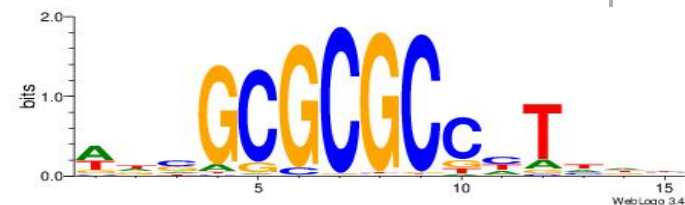
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



Motif ID:	UP00001
Motif name:	E2F2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0124455

Alignment:

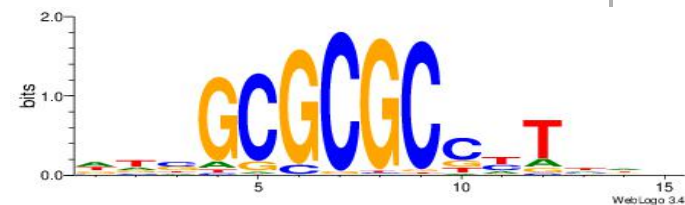
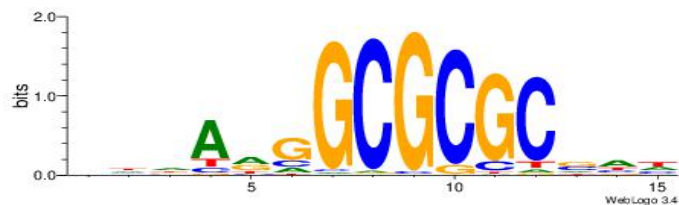
HHVGCGCGCCKTDHB
CGCGSGCGCGC-----

Original motif

Consensus sequence: VHDARGGCGCGCVHH

Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB

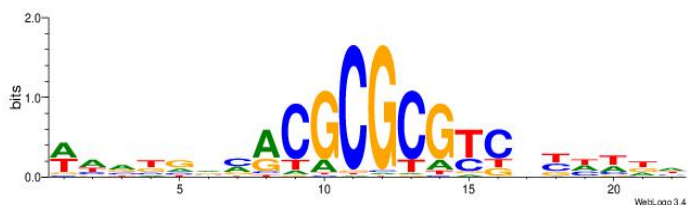


Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.0192204

Alignment:
 WHVBVVMACGCGCGTCDYHWDH
 ----CGCGSGCGCGC-----

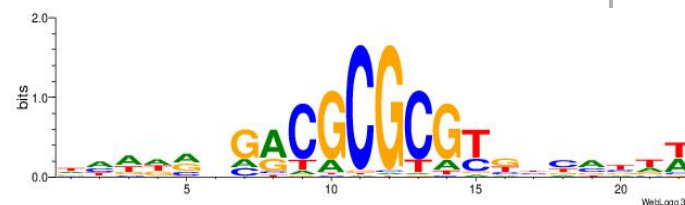
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00526](#)

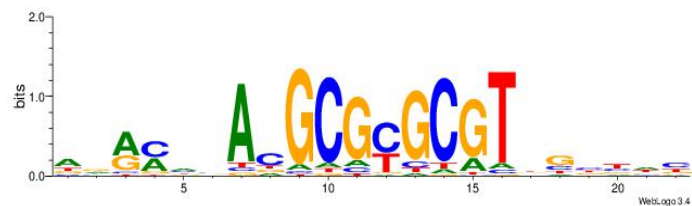
Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.0231982

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -----CGCGSGCGCGC-----

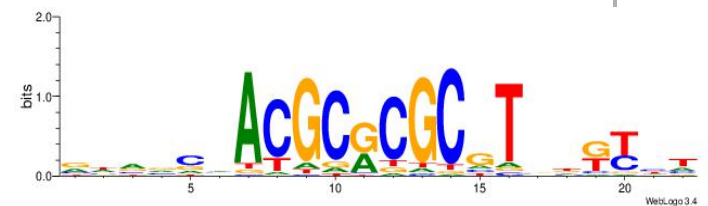
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD

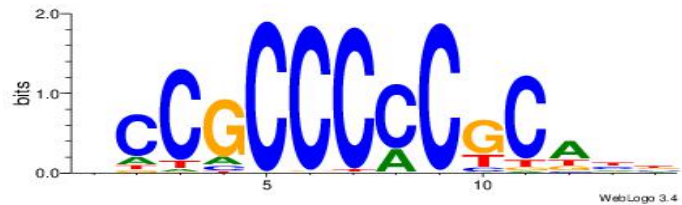


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11

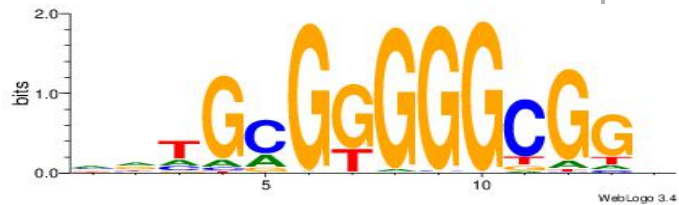
Similarity score: 0.0289369

Alignment:
HCCGCCCCCGCAHB
-GCGCGCSCGCG--

Original motif
Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif
Consensus sequence: VHTGCGGGGGCGGH

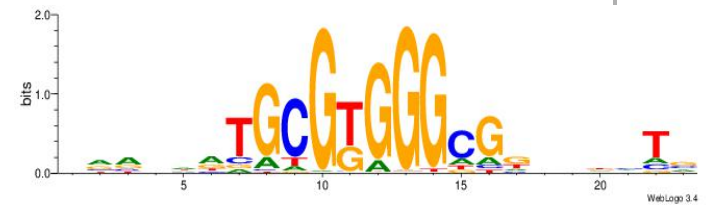
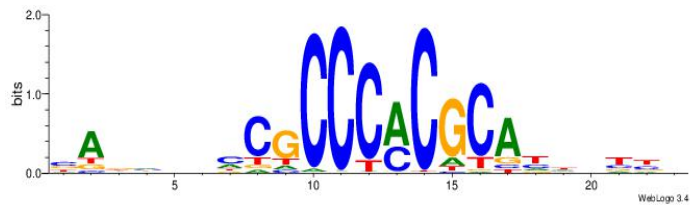


Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 11
Similarity score: 0.0297254

Alignment:
BADHBDHCGCCCMCGCAHDBBV
-----GCGCGCSCGCG-----

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHDBBV

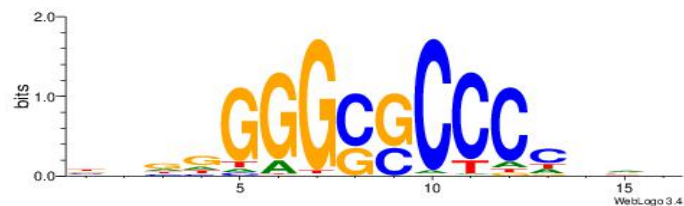
Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



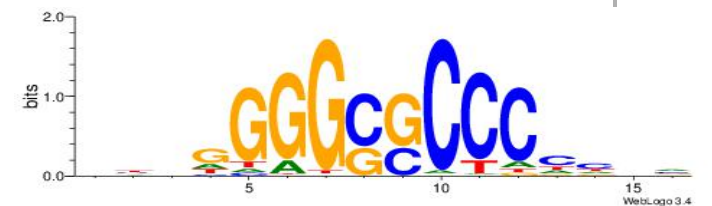
Motif ID: [UP00088](#)
 Motif name: Plagl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0316913

Alignment:
 BHDGGGGSSCCCCBVV
 -CGCGSGCGCGC----

Original motif
 Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif
 Consensus sequence: VBVG GGGSSCCCCCHHV



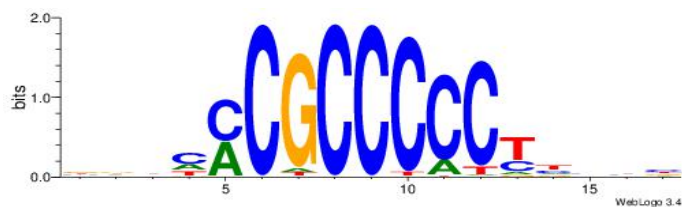
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0323627

Alignment:

BVVHAGGGGGCGRDHBB
 ----CGCGSGCGCGC--

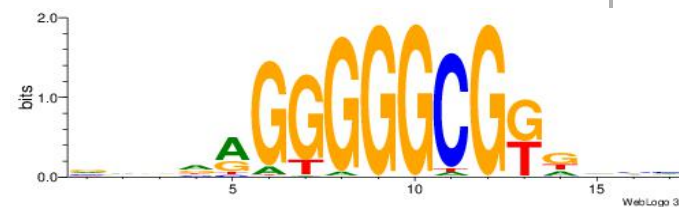
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7

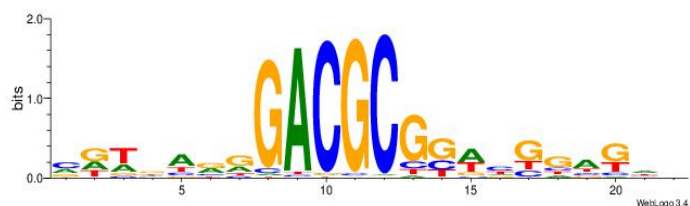
Number of overlap: 11
Similarity score: 0.039112

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
-----CGCGSGCGCGC-----

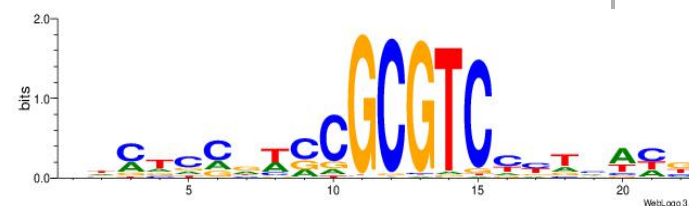
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

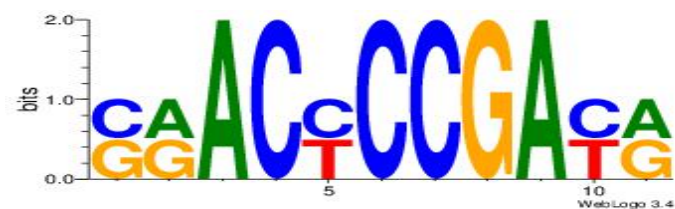
Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 2 **Motif ID: 33** **Motif name: srACyCCGAYr**

Original motif

Consensus sequence: SRACYCCGAYR



Reverse complement motif

Consensus sequence: KKTGCGKGTGS



Best Matches for Motif ID 33 (Highest to Lowest)

Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0129914

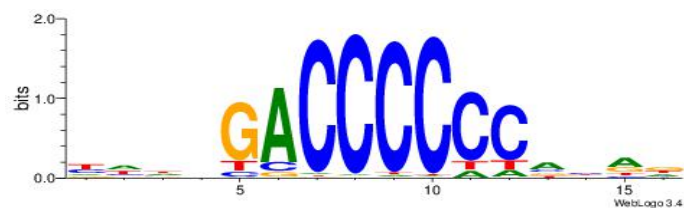
Alignment:

```

HKBBGGGGGGTCTVHHH
--KKTCGGKGTKS---
```

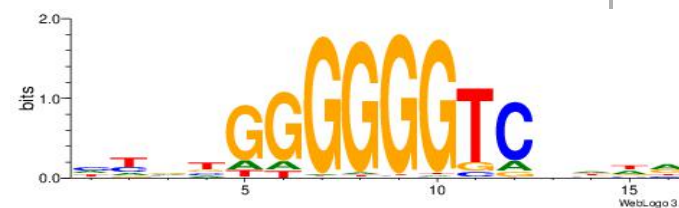
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCTVHHH



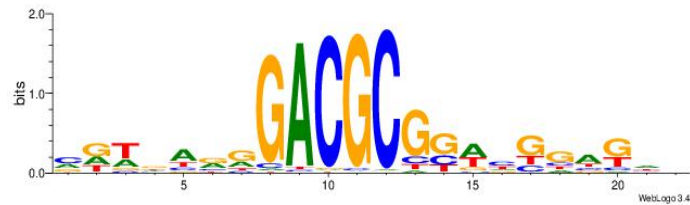
Motif ID:	UP00527
Motif name:	Foxn4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.013032

Alignment:

VDWDARRGACGCGGWHGGAKHV
-----SRACYCCGAYR-----

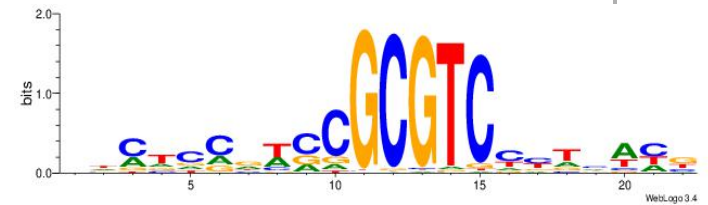
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID:	UP00070
Motif name:	Gcm1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0132459

Alignment:

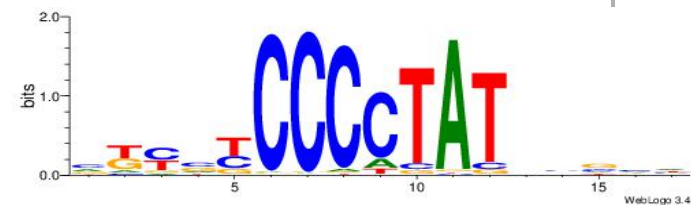
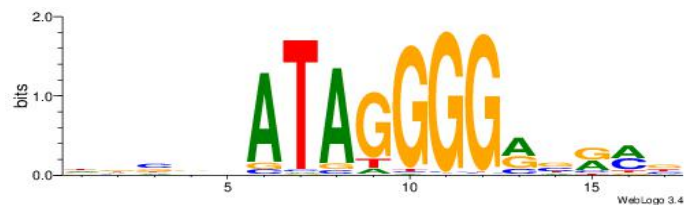
BYMBKCCCCTATDVBHD
--SRACYCCGAYR----

Original motif

Consensus sequence: DDBVHATAGGGGRBRMB

Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD

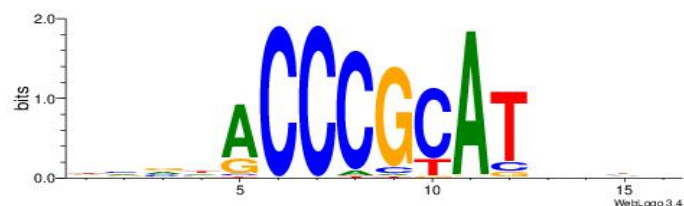


Motif ID: [UP00070](#)
 Motif name: Gcm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0135374

Alignment:
 HVVHACCCGCATVDHD
 --SRACYCCGAYR---

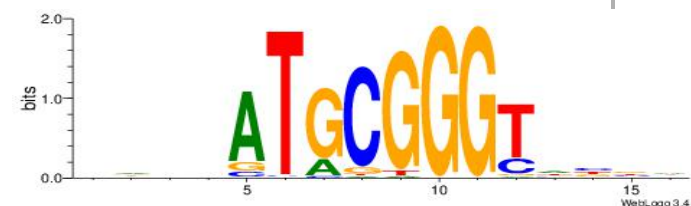
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVHH



Motif ID: [UP00021](#)

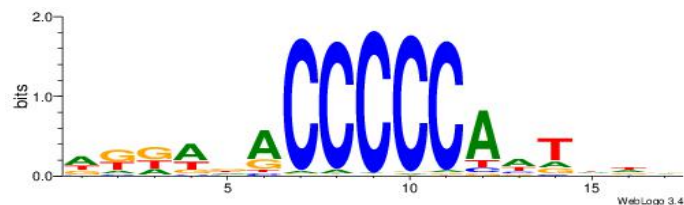
Motif name: Zfp281_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0136908

Alignment:

DKKWDACCCCAHTDDV
 ---SRACYCCGAYR---

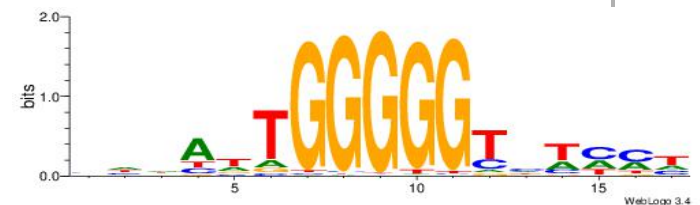
Original motif

Consensus sequence: DKKWDACCCCAHTDDV



Reverse complement motif

Consensus sequence: VDDAHTGGGGGTHWYYD



Motif ID: [UP00047](#)
 Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11

Similarity score: 0.0146089

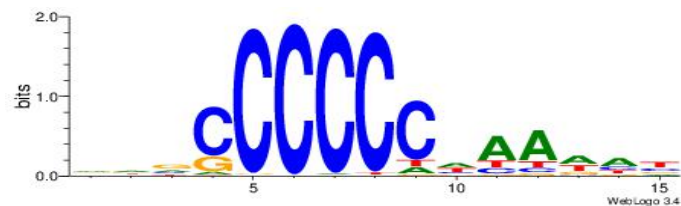
Alignment:

VHWTTHGGGGGGVDD

--KKTCGGKGTKS--

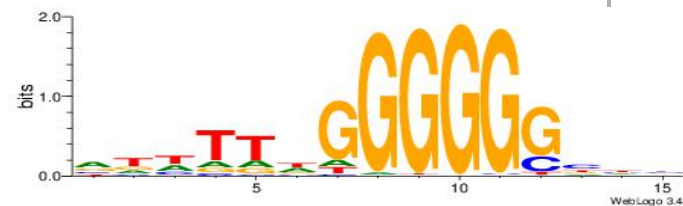
Original motif

Consensus sequence: DDVCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



Motif ID: [UP00040](#)
Motif name: Irf5_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0148195

Alignment:

BDKGTTTCGKTWDDD

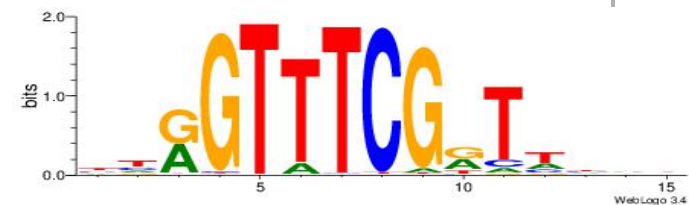
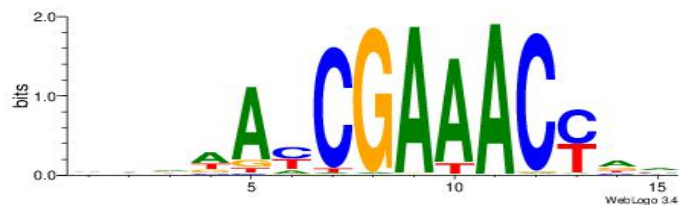
----KKTCGGKGTKS

Original motif

Consensus sequence: DDDWAYCGAAACYDV

Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD



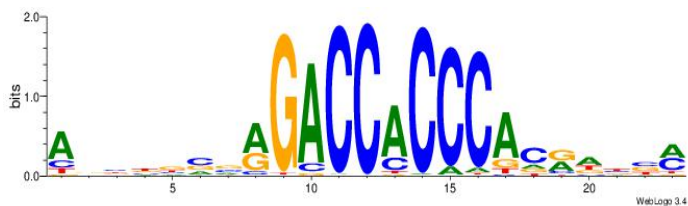
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 11
 Similarity score: 0.014859

Alignment:

ABBBBVVRGACCACCCACRDBBM
 -----SRACYCCGAYR-----

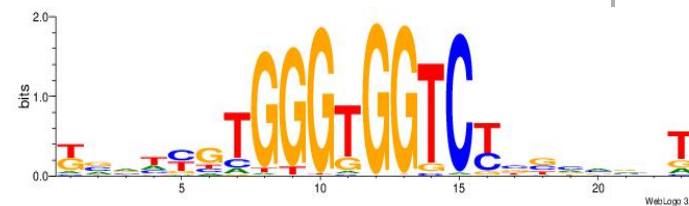
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



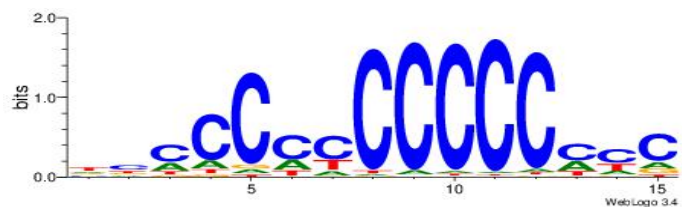
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0153296

Alignment:

GKRGGGGGGGGGGBD
 KKTCGKGTKS-----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 10

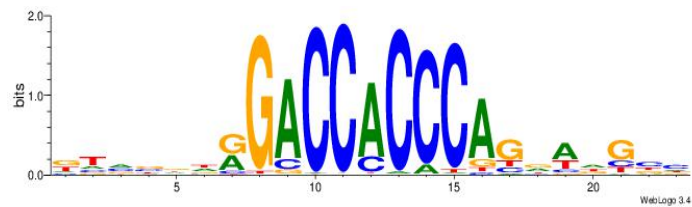
Number of overlap: 11
Similarity score: 0.0155548

Alignment:

DBCDWHCTGGGTGGTCMDHBBAH
---KKTCGGKGTKS-----

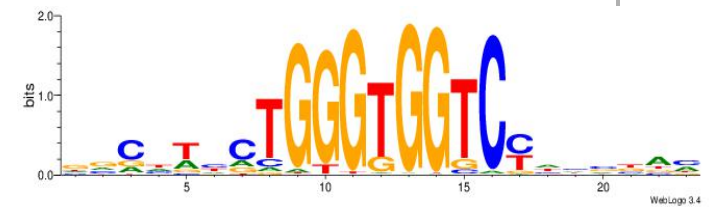
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



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Runtime: 641.554 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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