



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters

Number of files:	2
Number of top significant motifs:	10
Number of best matches:	10
Similarity cutoff $\geq$	0.75
Matching motif database:	UniProbe Mus Musculus
Phylogenetic 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
W-ChIPMotifs_DM230.txt	11	1
RSAT_peak-motifs_DM230.txt	10	2

RESULTS

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

Dataset #: 1 **Motif ID: 1** **Motif name: TFW1**

Original motif

Consensus sequence: GTCGCG



Reverse complement motif

Consensus sequence: CGCGAC



Best Matches for Motif ID 1 (Highest to Lowest)

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:	Backward
Position number:	9
Number of overlap:	6
Similarity score:	0

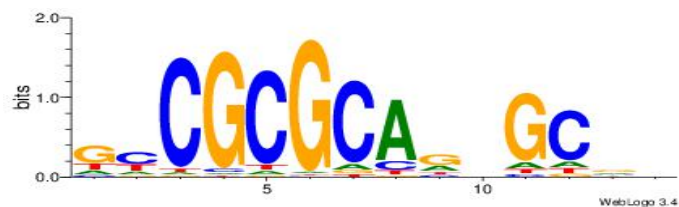
Alignment:

GYCGCGCARBGCVB

GTCGCG-----

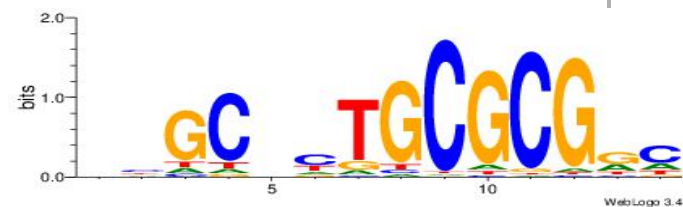
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



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:

Forward

Position number:

3

Number of overlap:

6

Similarity score:

0.00875457

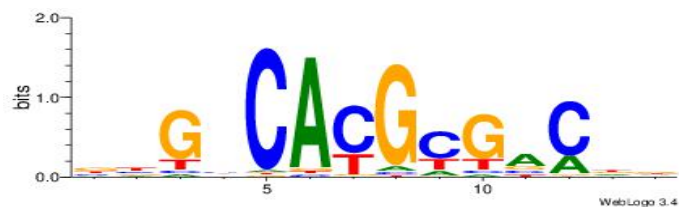
Alignment:

HDGTCGCGTGDCVB

--GTCGCG-----

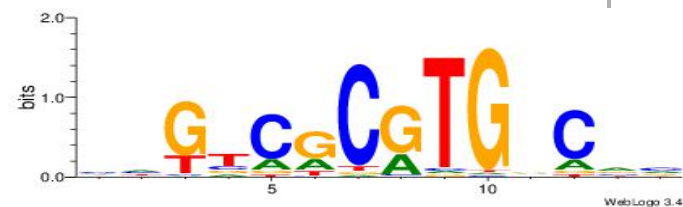
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



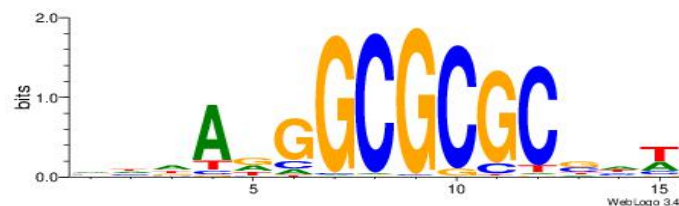
Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0102952

Alignment:

W H S G C G C G C C H T D H B
 - - - - C G C G A C - - - - -

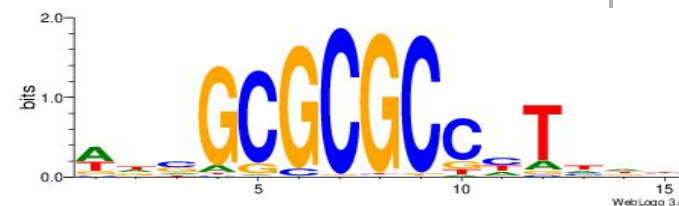
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: W H S G C G C G C C H T D H B



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

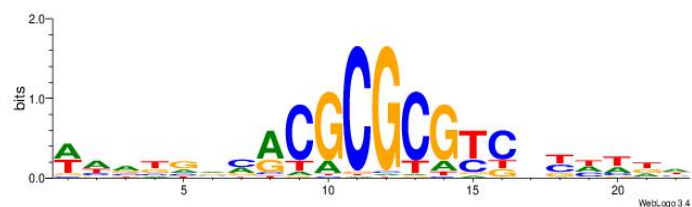
Position number: 7
Number of overlap: 6
Similarity score: 0.0119605

Alignment:

WHVBVVMACGCGCGTCDYHWDH
-----CGCGAC-----

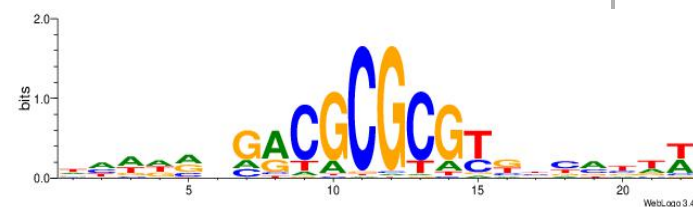
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVBVHW



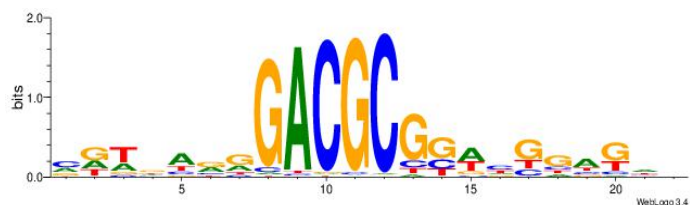
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 6
Similarity score: 0.014366

Alignment:

VDWDARRGACGCGGWHGGAHV
-----GTCGCG-----

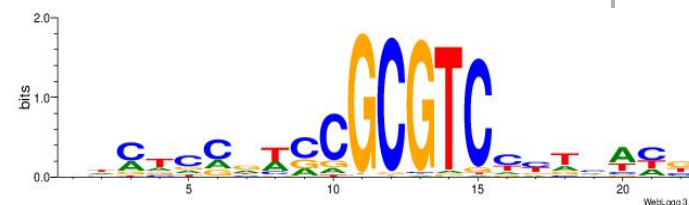
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0143989

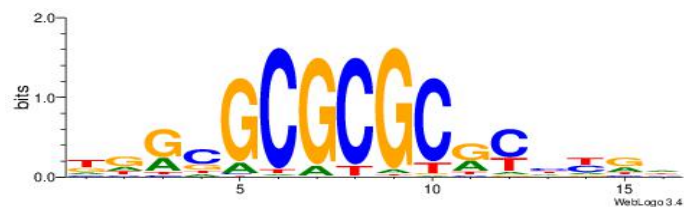
Alignment:

DMMDGMGCGCGCHD

-----CGCGAC--

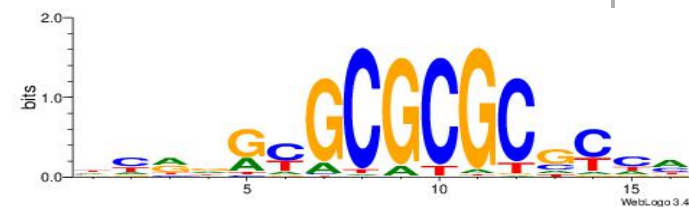
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCHD



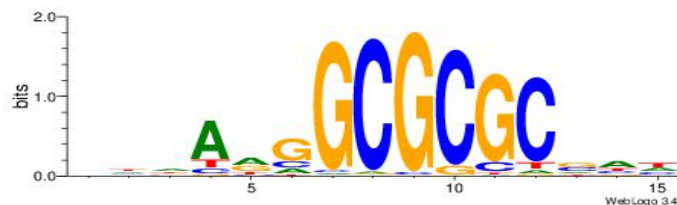
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0147239

Alignment:

HHVCGCGCCKTDHB
 ----CGCGAC-----

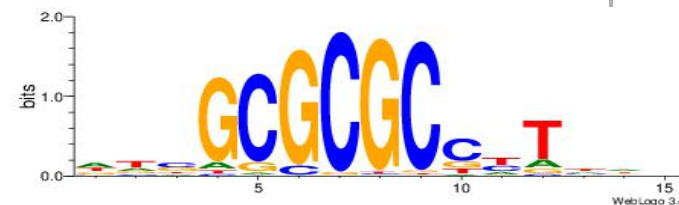
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVCGCGCCKTDHB

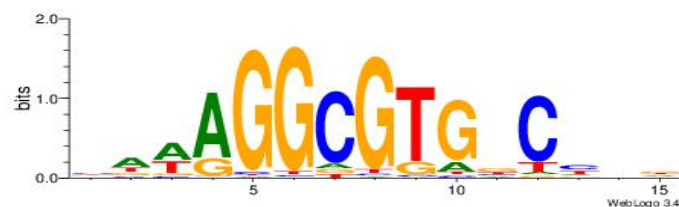


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward

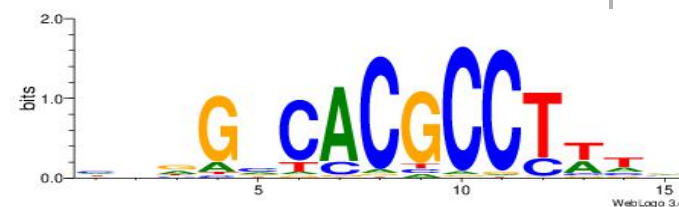
Alignment:

```
HHDGBCACGCCTWDB
---GTCGCG-----
```

Consensus sequence: BDWAGGCGTGBCHHD



Consensus sequence: HHDGBCACGCCTWDB

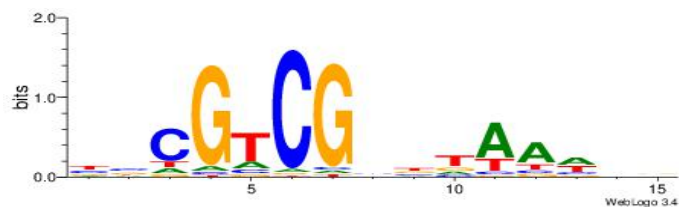


Alignment:

```
BBCGTCGHBTAAWDB
---GTCGCG-----
```

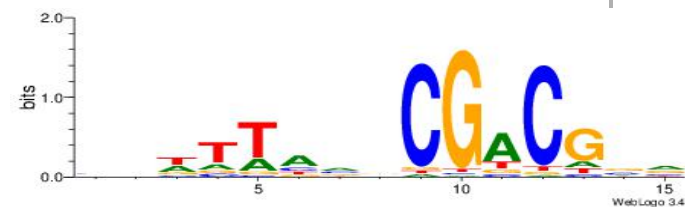

Original motif

Consensus sequence: BBCGTCGHBTAAWDB



Reverse complement motif

Consensus sequence: BDWTTAVDCGACGBV



Motif ID:

[UP00000](#)

Motif name:

Smad3_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:

6

Similarity score:

0.0317992

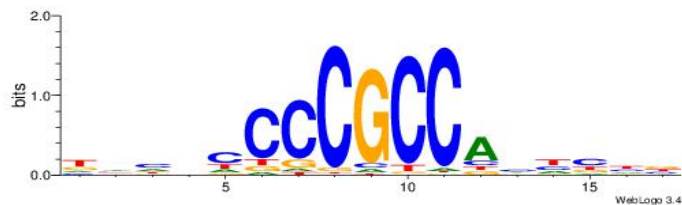
Alignment:

BHBHDTGGCGGGBDHD

----GTCGCG-----

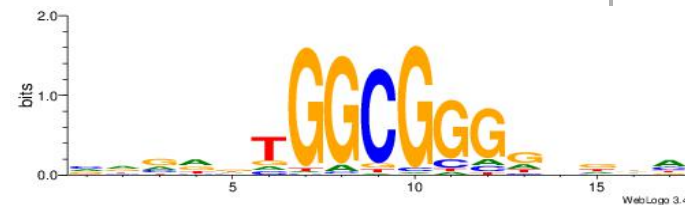
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Dataset #: 1 **Motif ID: 2** **Motif name: TFW2**

Original motif

Consensus sequence: SCGCGCGG



Reverse complement motif

Consensus sequence: CCGCGCGS



Best Matches for Motif ID 2 (Highest to Lowest)

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: 8
Number of overlap: 8
Similarity score: 0

Alignment:

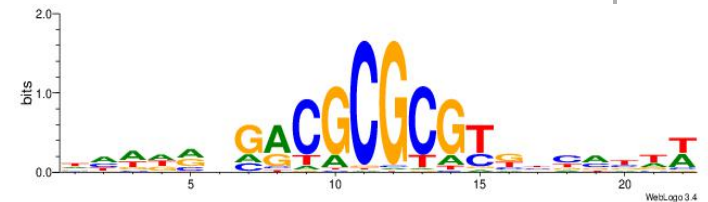
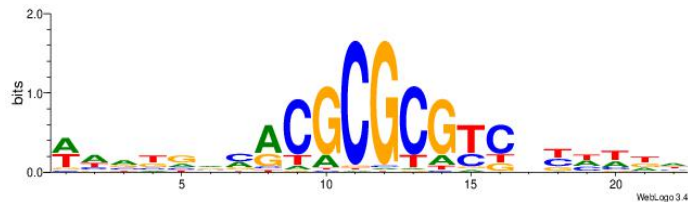
HDWHMHGACGCGCGTRBVVBHW
-----CCGCGCGS-----

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

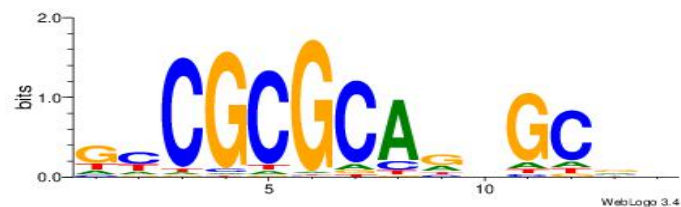
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



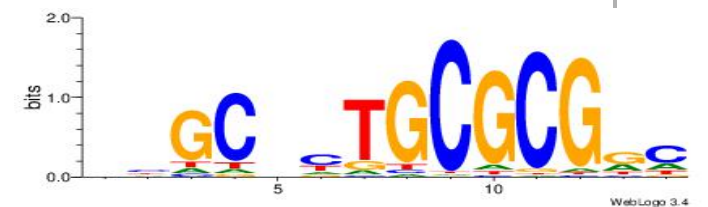
Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.00228411

Alignment:
 VVGCVMTCGCGKC
 -----CCGCGCGS-

Original motif
 Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif
 Consensus sequence: VVGCVMTCGCGKC



Motif ID: [UP00003](#)

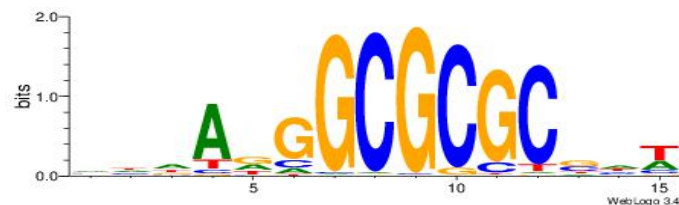
Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00337853

Alignment:

W H S G C G C G C C H T D H B
 - C C G C G C G S - - - - -

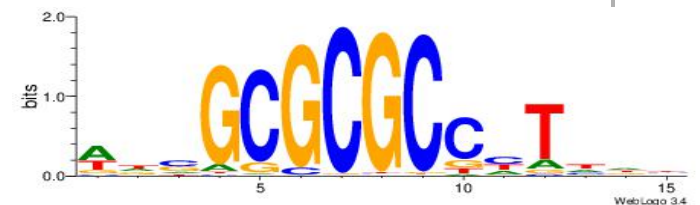
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: W H S G C G C G C C H T D H B



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: Backward
 Position number: 7
 Number of overlap: 8

Similarity score: 0.00399923

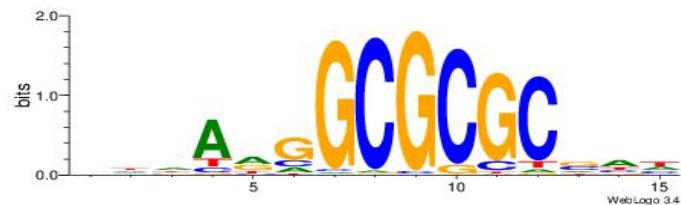
Alignment:

HHVCGCGCCKTDHB

-CCGCGCGS-----

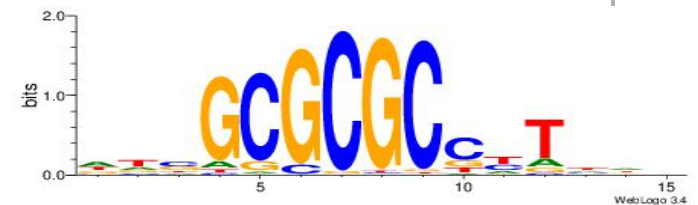
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVCGCGCCKTDHB



Motif ID: [UP00065](#)
Motif name: Zfp161_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: 8
Similarity score: 0.00484534

Alignment:

DDGCGCGCGCRCHYRD

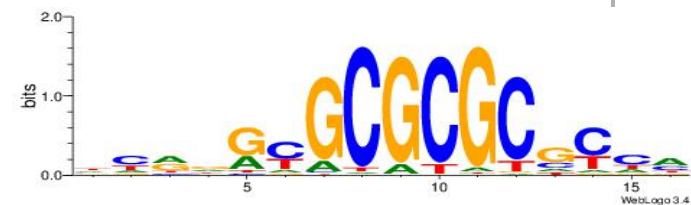
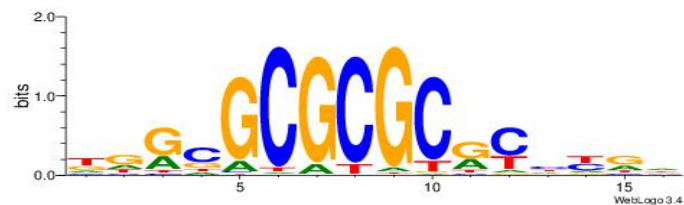
----CCGCGCGS----

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



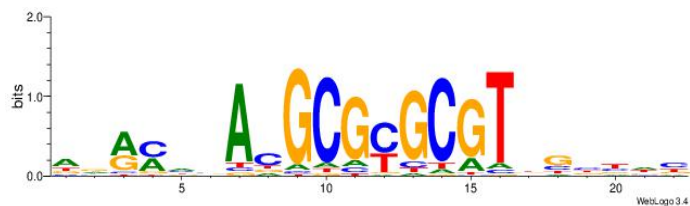
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0149577

Alignment:

BDVBCDACGCKCGCGTBHRKHD
 -----CCGCGCGS-----

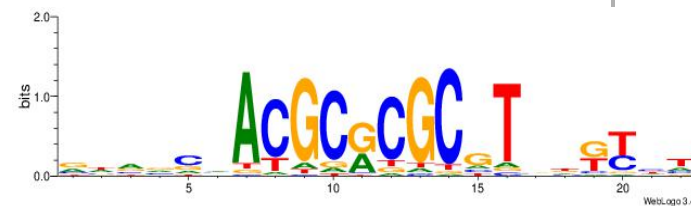
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



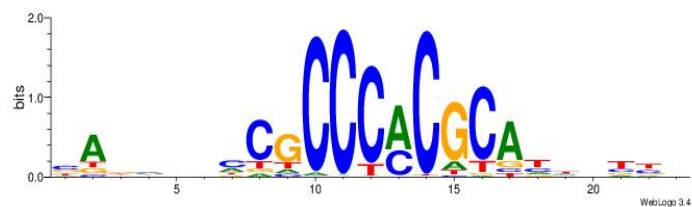
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0194485

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB
 -----SCGCGCGG-----

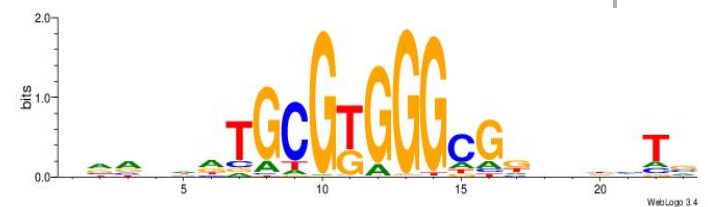
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



Motif ID: [UP00022](#)
 Motif name: Zfp740_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6

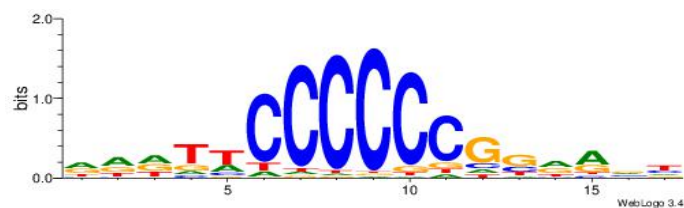
Number of overlap: 8
Similarity score: 0.0230299

Alignment:

DDDTWCCCCCGGDRVH
-----CCGCGCGS-----

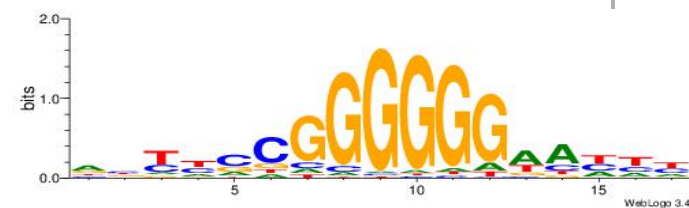
Original motif

Consensus sequence: DDDTWCCCCCGGDRVH



Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD



Motif ID: [UP00007](#)
Motif name: Egr1_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: 8
Similarity score: 0.0247841

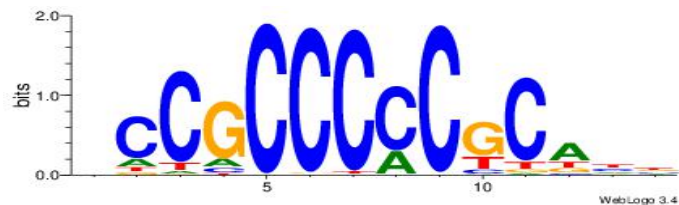
Alignment:

HCCGCCCCCGCAHB
-----CCGCGCGS-----

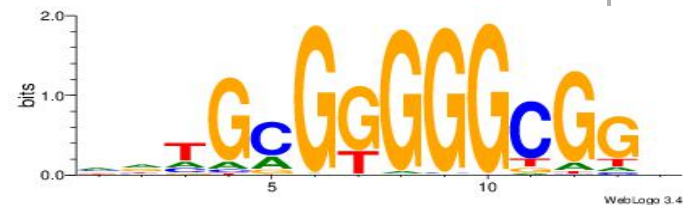
Original motif

Reverse complement motif

Consensus sequence: HCCGCCCCCGCAHB



Consensus sequence: VHTGCGGGGGCGGH



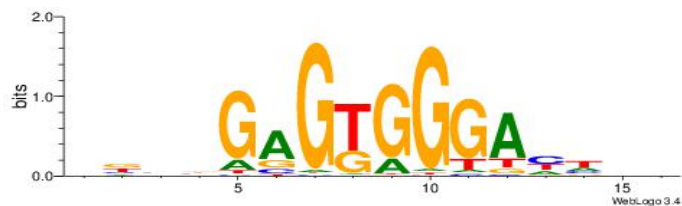
Motif ID: [UP00007](#)
Motif name: Egr1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.0249557

Alignment:

BHHDTCCTCACTCBDBV
-----CCGCGCGS--

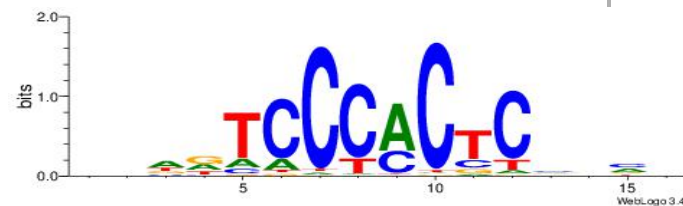
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



Dataset #: 1 **Motif ID: 3** **Motif name: TFW3**

Original motif

Consensus sequence: CGGCYBCGCG



Reverse complement motif

Consensus sequence: CGCGBMGCCG



Best Matches for Motif ID 3 (Highest to Lowest)

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:	8
Number of overlap:	10
Similarity score:	0.0331859

Alignment:

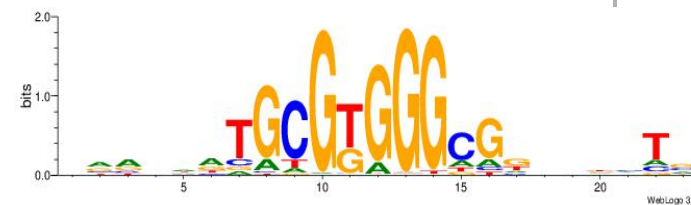
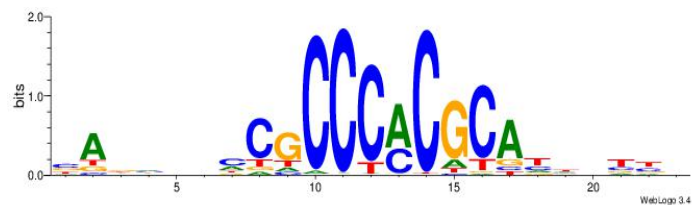
```
VVVDHHTGCGYGGGCGDHVHHTB
-----CGCGBMGCCG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

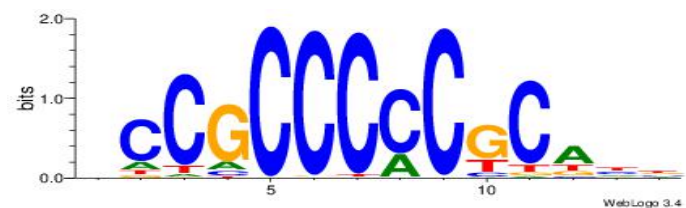


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0342114

Alignment:
 HCCGCCCCCGCAHB
 --CGGCYBCGCG--

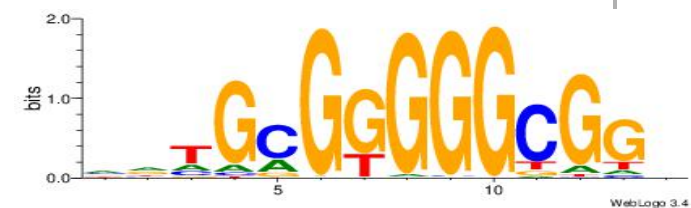
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00527](#)

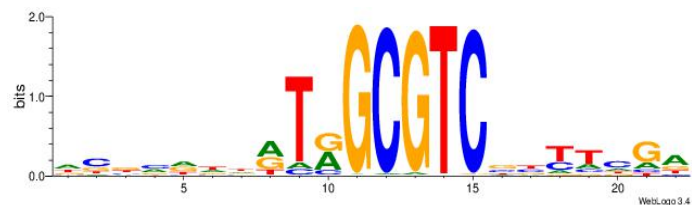
Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12
 Number of overlap: 10
 Similarity score: 0.0356548

Alignment:

DBBVDDDRTRGCGTCBBYTHGA
 -----CGGCYBCGCG-

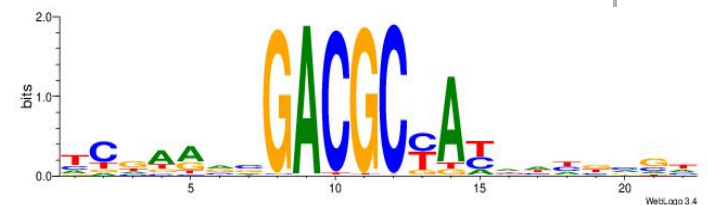
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBDD

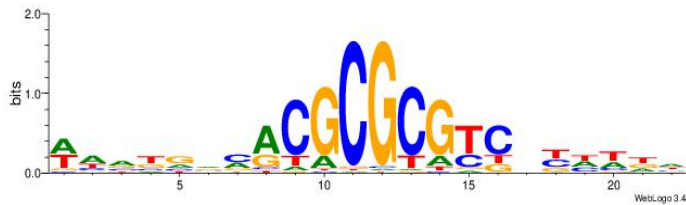


Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 11
 Number of overlap: 10

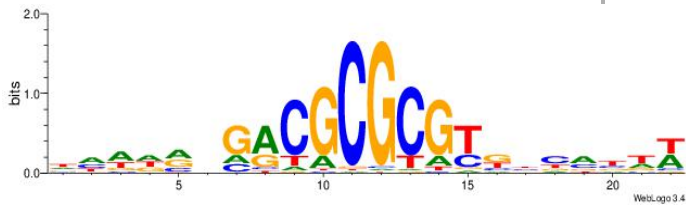
Similarity score: 0.041792

Alignment:
HDWHMHGACGCGCGTRBVVBHW
-----CGCGBMGCCG--

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW

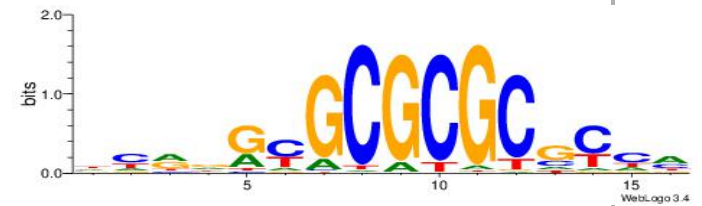
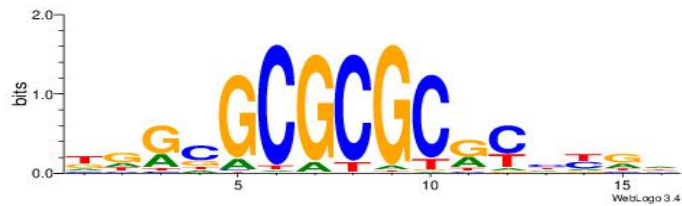


Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.041904

Alignment:
DDGCGCGCGCRCHYRD
-----CGCGBMGCCG--

Original motif
Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif
Consensus sequence: DMMDGMGCGCGCGCHD



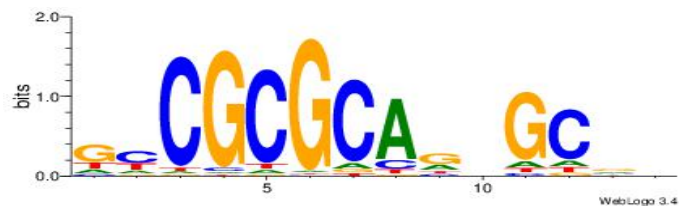
Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0419429

Alignment:

VVGCVMTGCGCGKC
 CGGCYBCGCG----

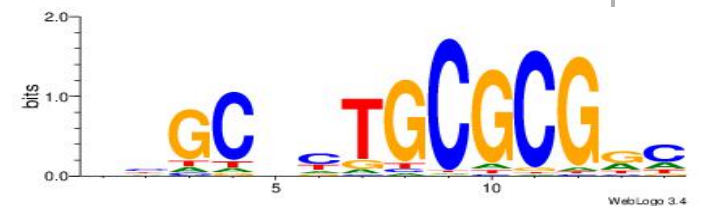
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



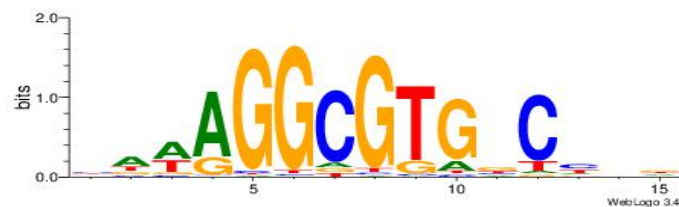
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0475178

Alignment:

BDWAGGCGTGBCHHD
 ----CGCGBMGCCG--

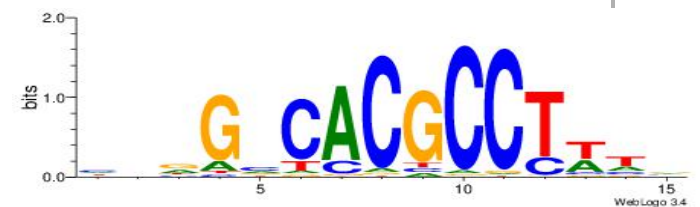
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



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: 1
 Number of overlap: 10

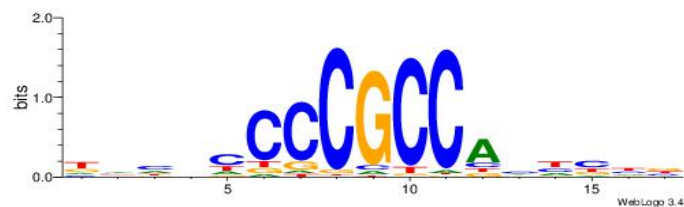
Similarity score: 0.0490044

Alignment:

DHHBCCCCGCCAHHBHB
-----CGGCYBCGCG

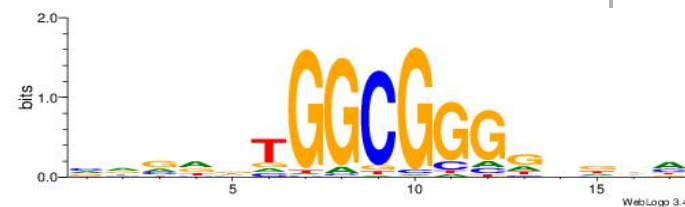
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: [UP00087](#)
Motif name: Tcfap2c_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: 0.0499902

Alignment:

DTHSCCKSMGGSHHW
--CGGCYBCGCG---

Original motif

Consensus sequence: WHHSCCYSRGGSDAD

Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



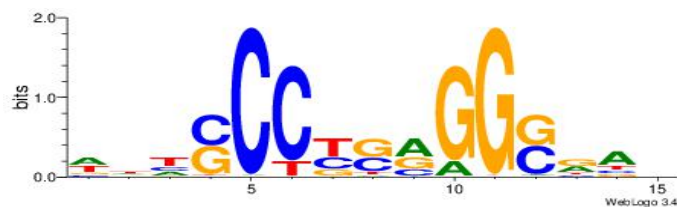
Motif ID: [UP00005](#)
 Motif name: Tcfap2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0500462

Alignment:

DTMSCCKSMGGSHDW
 --CGGCYBCGCG---

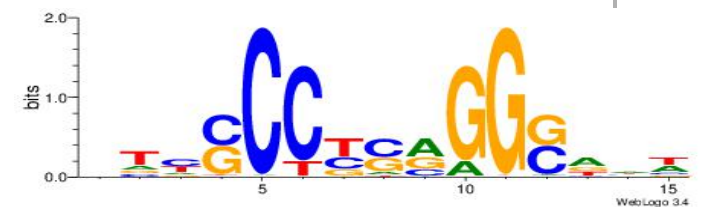
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

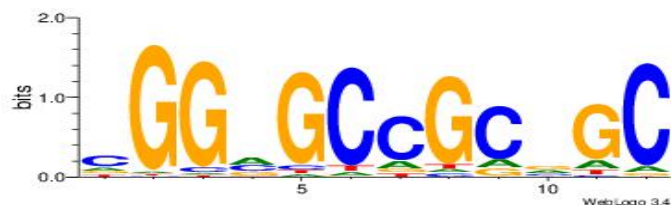
Consensus sequence: DTMSCCKSMGGSHDW



Dataset #: 1 **Motif ID: 4** **Motif name: TFF1**

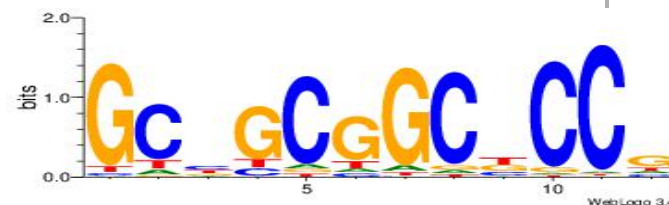
Original motif

Consensus sequence: CGGVGCCGCVGC



Reverse complement motif

Consensus sequence: GCVGCGGCBCCG



Best Matches for Motif ID 4 (Highest to Lowest)

Motif ID:	UP00003
Motif name:	E2F3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0423593

Alignment:

HBHWYGGCGCCAMDVB

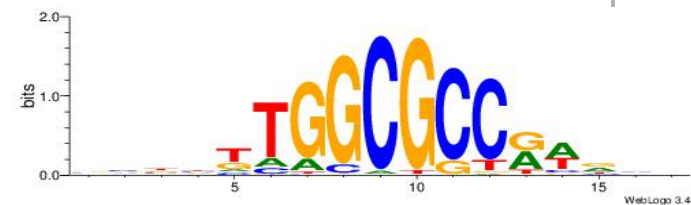
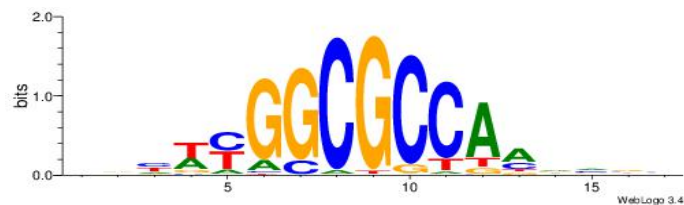
----CGGVGCCGCVGC--

Original motif

Consensus sequence: HBHWYGGCGCCAMDVB

Reverse complement motif

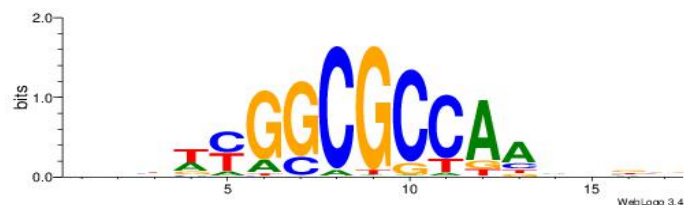
Consensus sequence: BBBDYTGGCGCCKWDBD



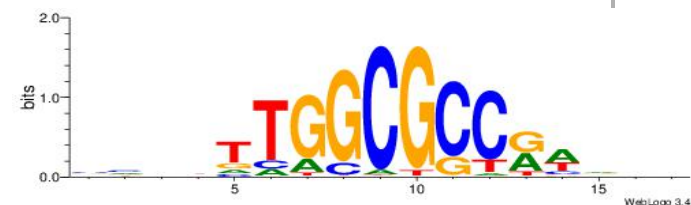
Motif ID: [UP00001](#)
 Motif name: E2F2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.046515

Alignment:
 HVBWYGGCGCCAADVBB
 ----CGGVGCCGCVGC-

Original motif
 Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif
 Consensus sequence: BBBDDTGGCGCCKWVVD



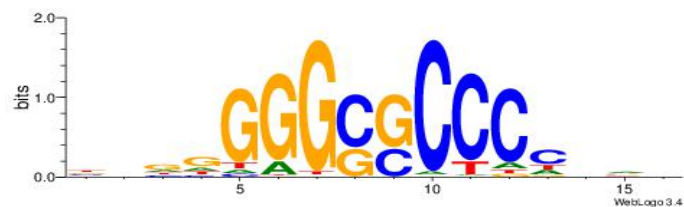
Motif ID: [UP00088](#)

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: 1
 Number of overlap: 12
 Similarity score: 0.0472704

Alignment:
 VBVGGGGSSCCCCHHV
 GCVGCGGCBCCG-----

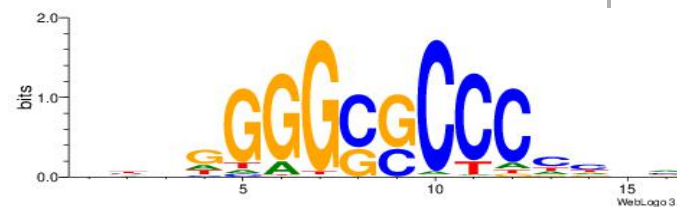
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHHV



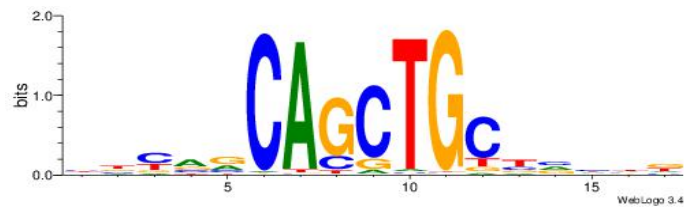
Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0476914

Alignment:

BBYVVCAGCTGCBVHHD
----GCVGCGGCBCCG--

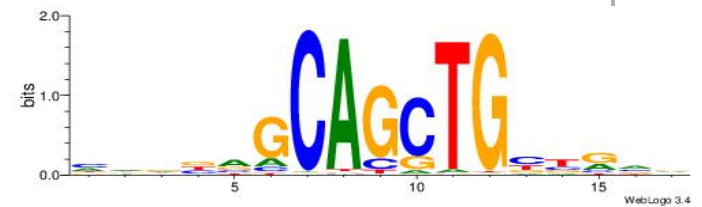
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



Motif ID:	UP00043
Motif name:	Bcl6b_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:	12
Similarity score:	0.0508178

Alignment:

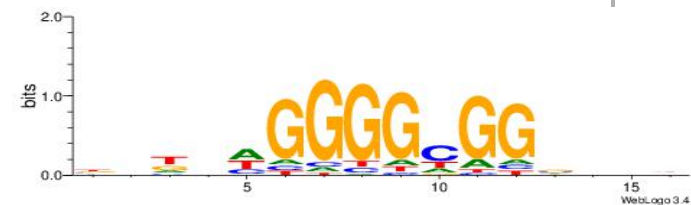
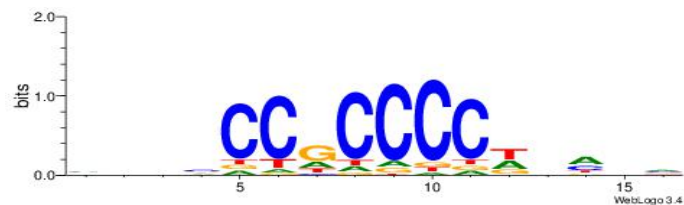
HBBBCCGCCCCWHHHV
GCVGCGGCBCCG----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH

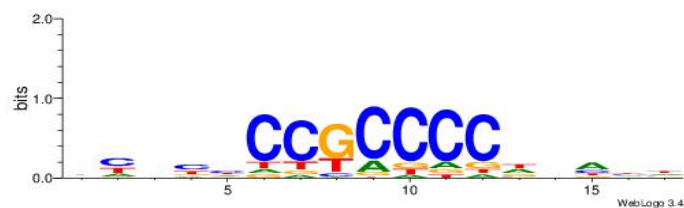


Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0533422

Alignment:
 BHHBHCCGCCCCDHHHH
 -GCVGCGGCBCCG-----

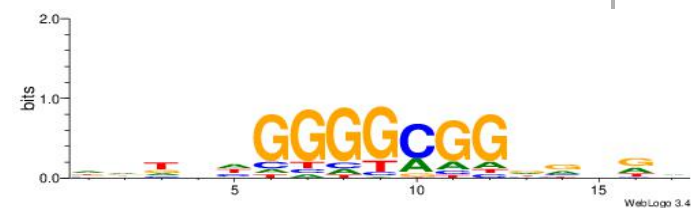
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00539](#)

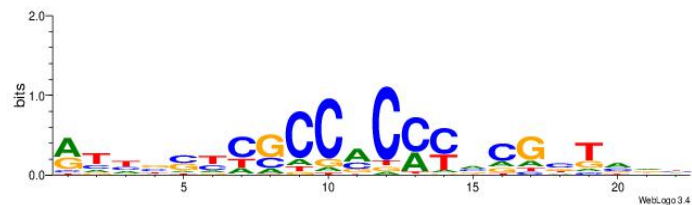
Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 12
 Similarity score: 0.0561199

Alignment:

HDBABCGBKRGYGGCGMSBHAK
 -----CGGVGCCGCVGC--

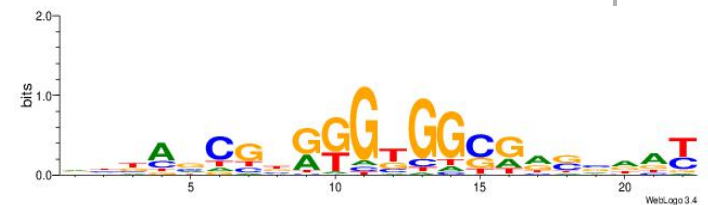
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00002](#)
 Motif name: Sp4_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: 12

Similarity score: 0.0577556

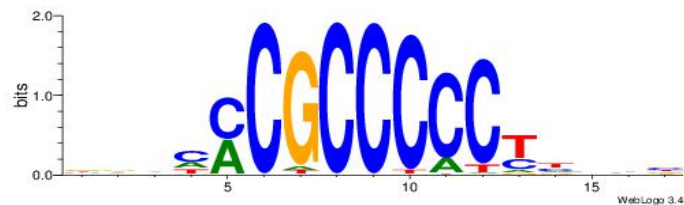
Alignment:

BDHHMCGCCCCCTHVBB

-GCVGCGGCBCCG----

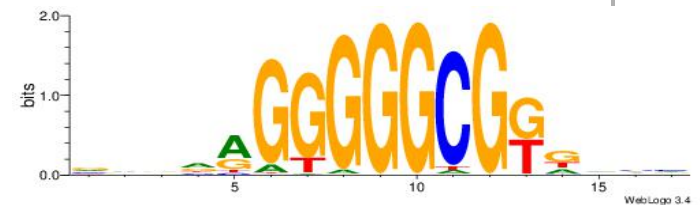
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00000](#)
Motif name: Smad3_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: 12
Similarity score: 0.0577695

Alignment:

DHHBCCCCGCCAHHBHB

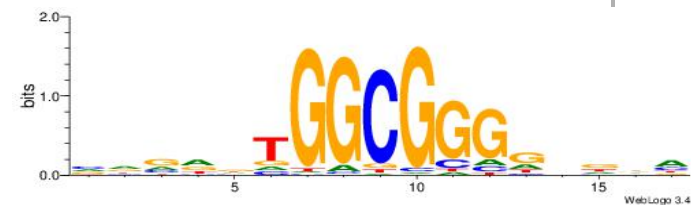
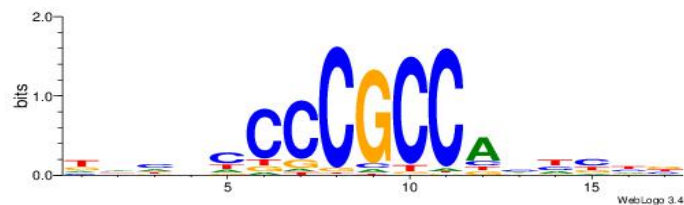
GCVGCGGCBCCG-----

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD

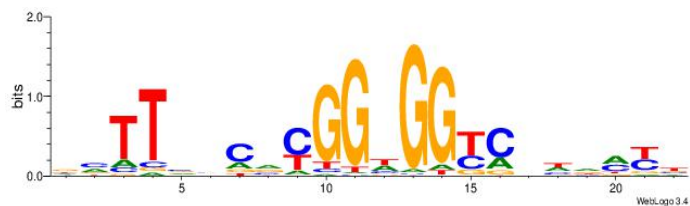


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0581164

Alignment:
 DVTTVVCVYGGHGGYCHHDMYB
 -----CGGVGCCGCVGC--

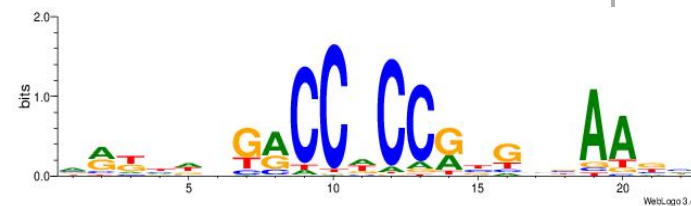
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



Dataset #: 1 **Motif ID: 5** **Motif name: TFF11**

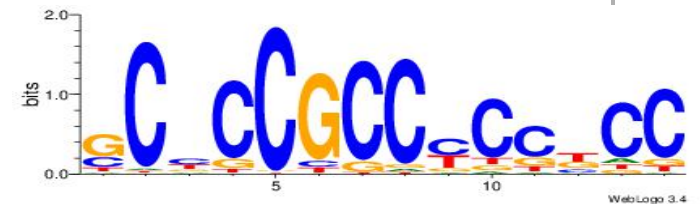
Original motif

Consensus sequence: GGMGGRGGCGGVGC



Reverse complement motif

Consensus sequence: GCVCCGCCMCCYCC



Best Matches for Motif ID 5 (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:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0294317

Alignment:

BHBHDTGGCGGGBDHD

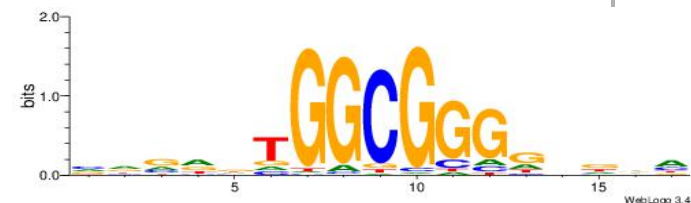
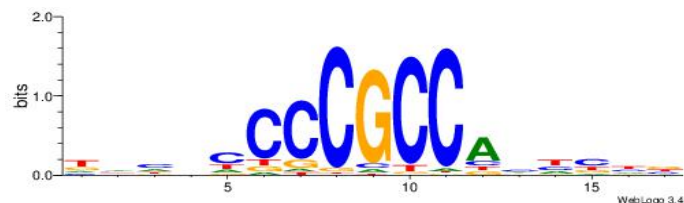
---GCVCCGCCMCCYCC

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

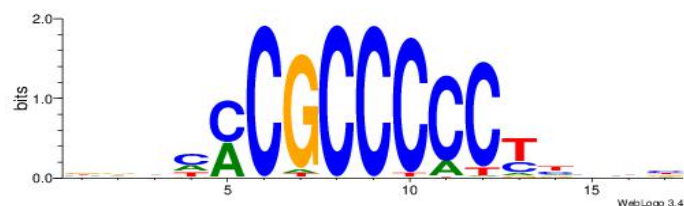


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0308559

Alignment:
 BDHMC GCCCCTHVBB
 -GCVCCGCCMCCYCC--

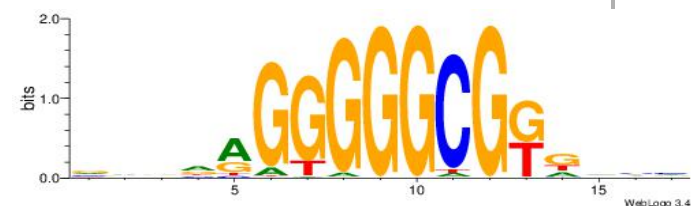
Original motif

Consensus sequence: BDHMC GCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00033](#)

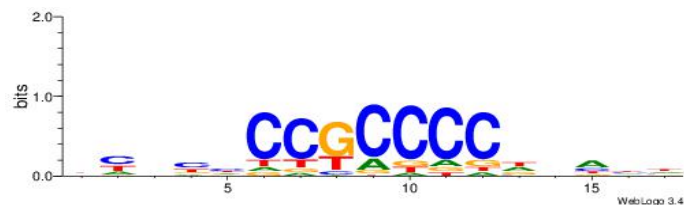
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0379479

Alignment:

BHHBHCCGCCCCDHHHH
 --GCVCCGCCMCCYCC--

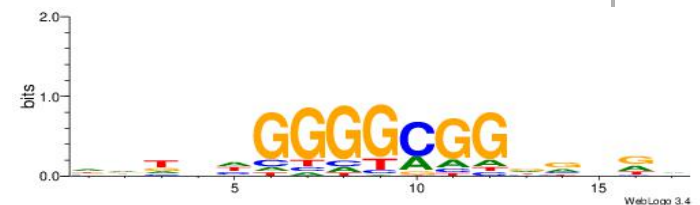
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00043](#)
 Motif name: Bcl6b_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: 14

Similarity score: 0.0383359

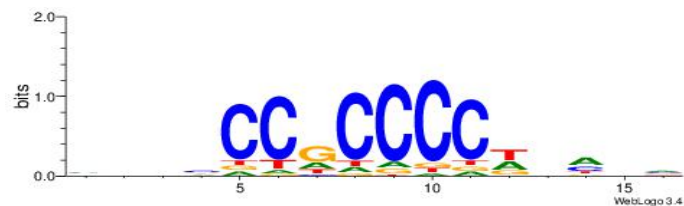
Alignment:

HB BBCCGCCCCW HHHV

-GCVCCGCCMCCYCC-

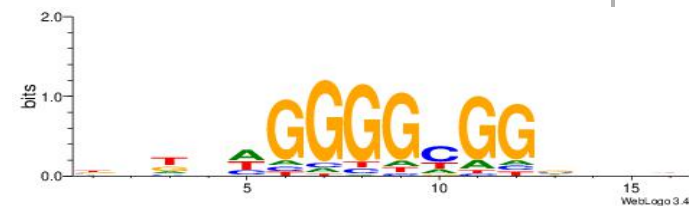
Original motif

Consensus sequence: HB BBCCGCCCCW HHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00021](#)

Motif name: Zfp281_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: 14

Similarity score: 0.0388307

Alignment:

GKRGGGGGGGGGGBD

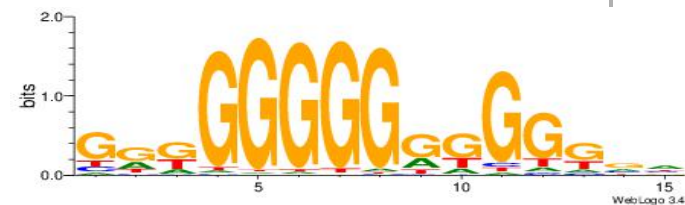
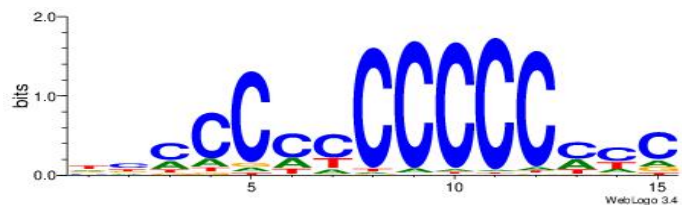
GGMGGRGGCGGVGC-

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



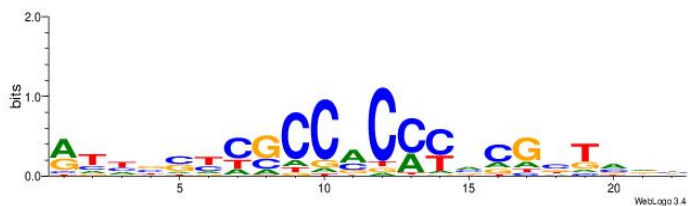
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.039083

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 --GCVCCGCCMCCYCC-----

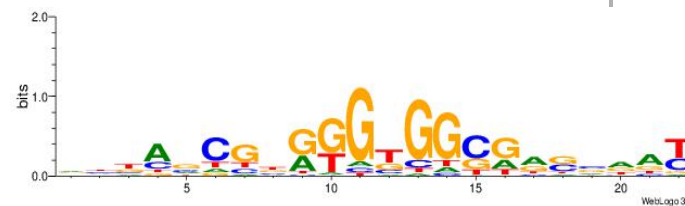
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00022](#)

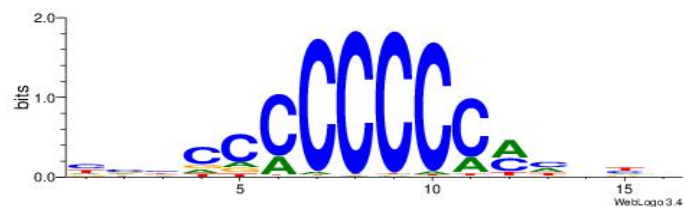
Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0439675

Alignment:

BHHDYGGGGGGGGBVD
 --GCVCCGCCMCCYCC

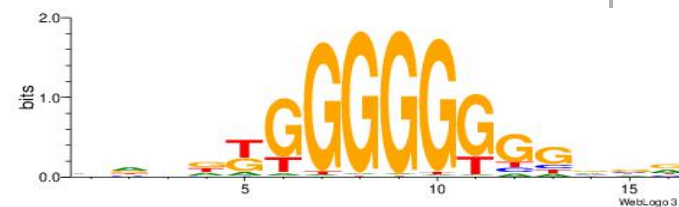
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



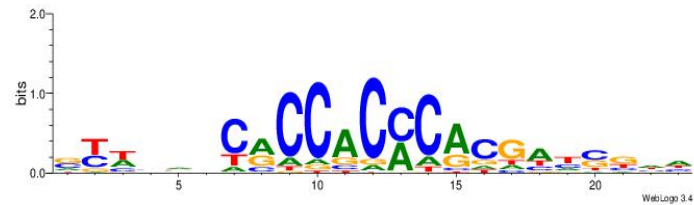
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 14
 Similarity score: 0.0542214

Alignment:

VYWVVHCRCCACMCACGAHSBHH
-----GCVCCGCCMCCYCC-----

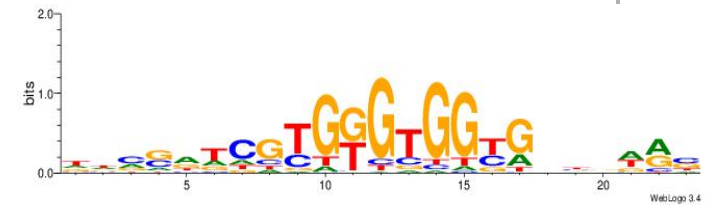
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVBVWMV



Motif ID:	UP00538
Motif name:	Gli1_v016060_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:	14
Similarity score:	0.0549119

Alignment:

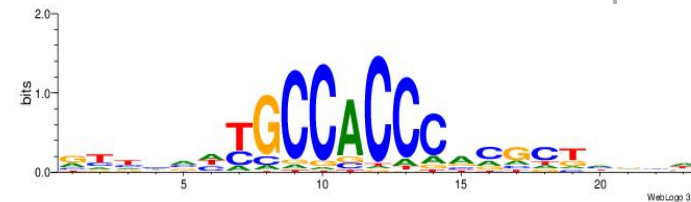
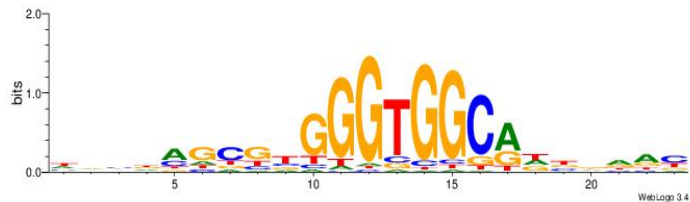
BDDHVDKGCCACCCVCGCTDBVH
--GCVCCGCCMCCYCC-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



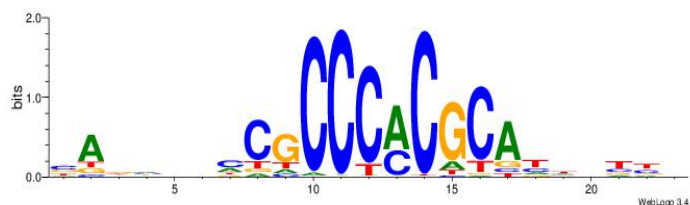
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 14
 Similarity score: 0.0551379

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
 ---GCVCCGCCMCCYCC-----

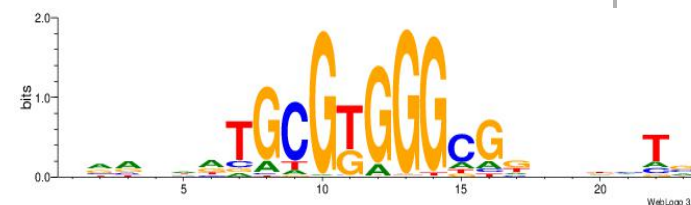
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

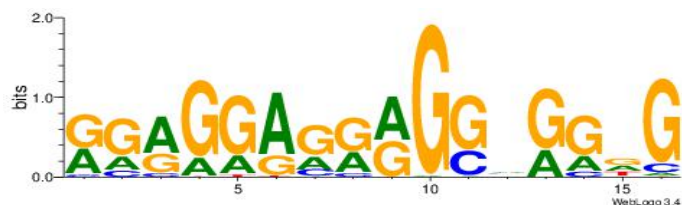
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



Dataset #: 1 **Motif ID: 6** **Motif name: TFM2**

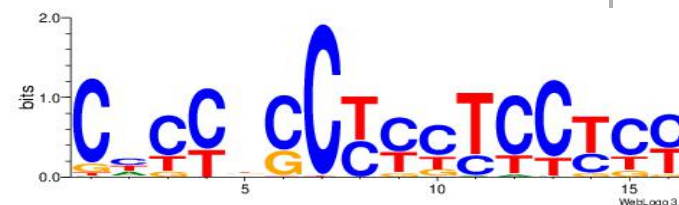
Original motif

Consensus sequence: RGRGGAGRRGGHGGDG



Reverse complement motif

Consensus sequence: CHCCBCKMCTCCKCM



Best Matches for Motif ID 6 (Highest to Lowest)

Motif ID:	UP00033
Motif name:	Zfp410_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:	16
Similarity score:	0.0508679

Alignment:

BHHBHCCGCCCCDHHHH

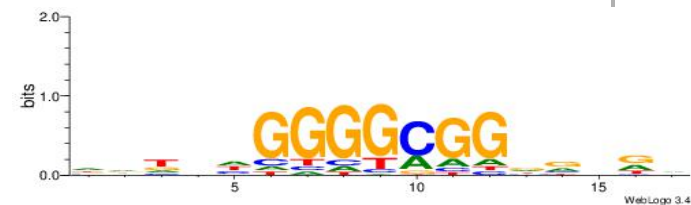
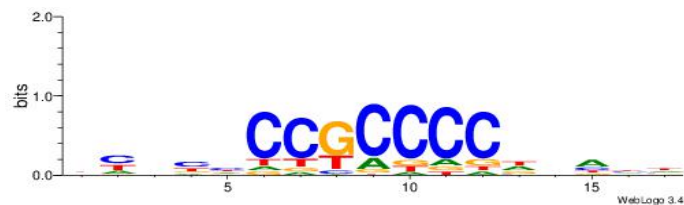
CHCCBCKMCTCCKCM-

Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH

Reverse complement motif

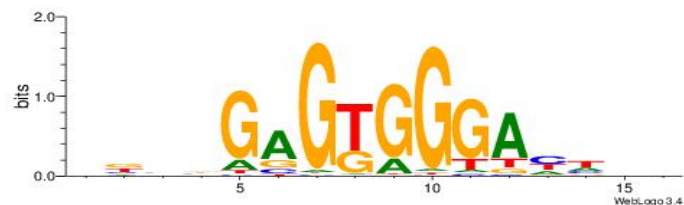
Consensus sequence: HHHHDGGGGCGGDBHDV



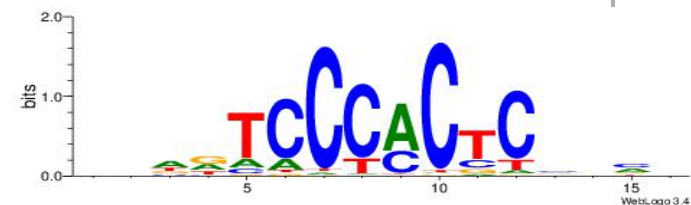
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 16
 Similarity score: 0.0564739

Alignment:
 BBHBGAGTGGGAHHDB
 RGRGGAGRRGGHGGDG

Original motif
 Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif
 Consensus sequence: BHHDTCCTCACTCBDBV



Motif ID: [UP00400](#)
 Motif name: Zif268

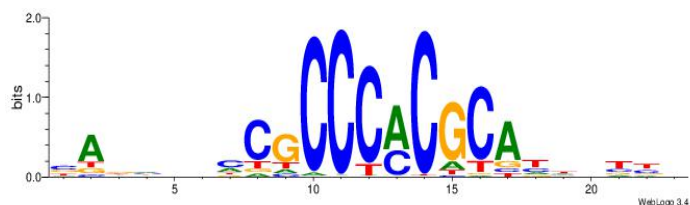
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 16
 Similarity score: 0.0588056

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
 ----CHCCBCKMCTCCKCM---

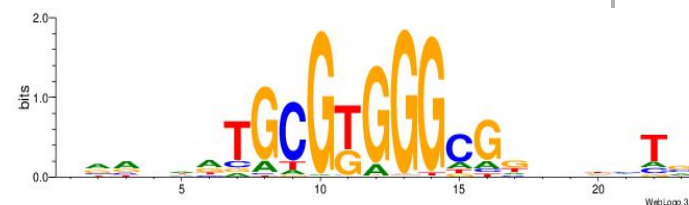
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



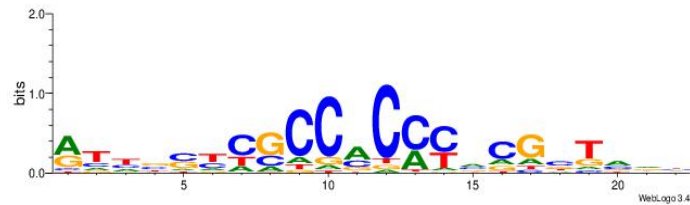
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 16
 Similarity score: 0.0589361

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
---CHCCBCKMCTCCKCM---

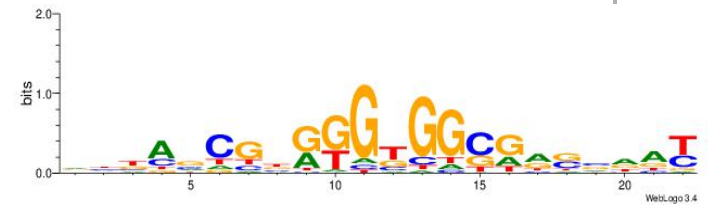
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID:

[UP00022](#)

Motif name:

Zfp740_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:

16

Similarity score:

0.0599837

Alignment:

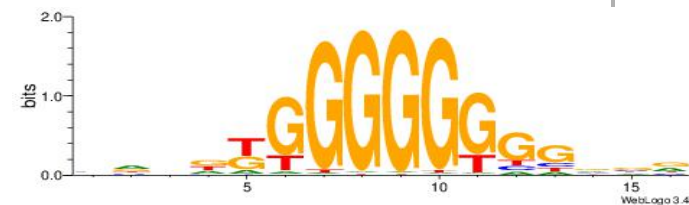
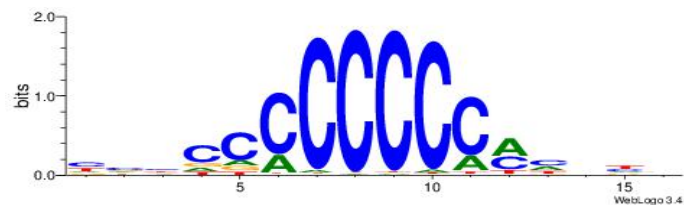
HVBCCCCCCCCMHHHB
RGRGGAGRRGGHGGDG

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD

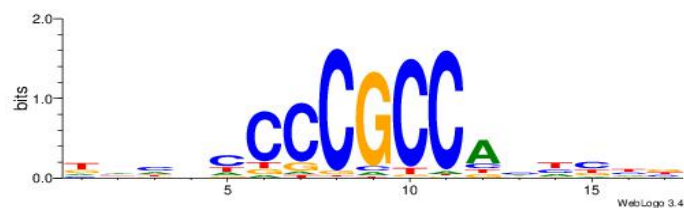


Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.06023

Alignment:
 DHHBCCCCGCCAHHBHB
 -CHCCBCKMCTCCKCM

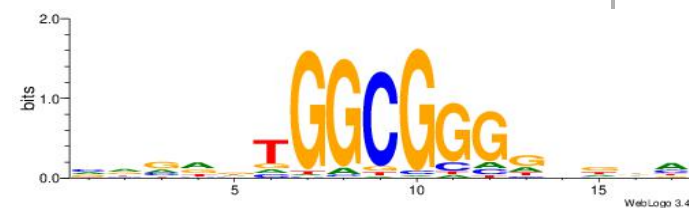
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00539](#)

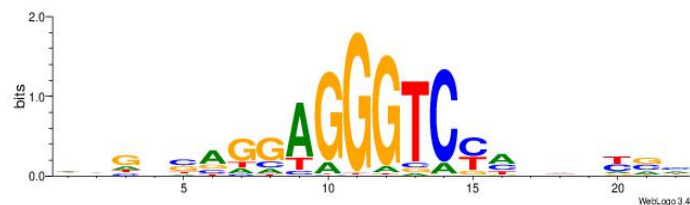
Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 16
 Similarity score: 0.060636

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 CHCCBCKMCTCCKCM-----

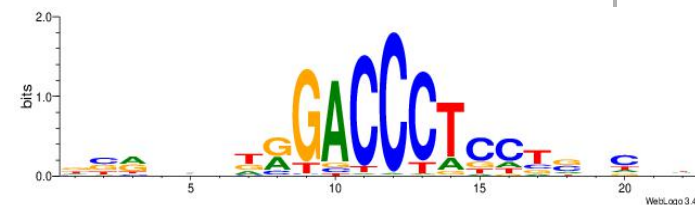
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



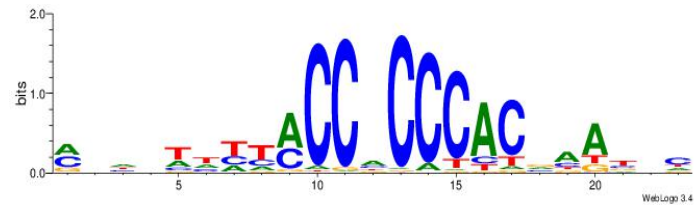
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 16
 Similarity score: 0.0621813

Alignment:

DVVTTVGTGGGHGGYAMHWHHHY
-----CHCCBCKMCTCCKCM

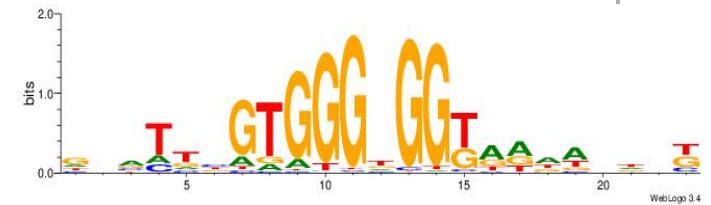
Original motif

Consensus sequence: MHHHWHYTMCHCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID:	UP00099
Motif name:	Ascl2_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:	16
Similarity score:	0.0624626

Alignment:

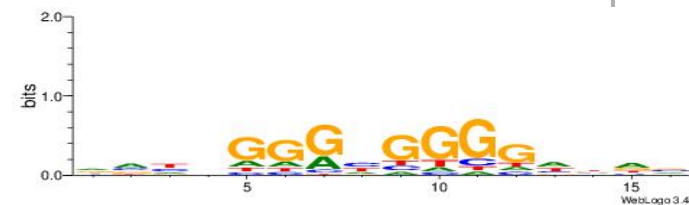
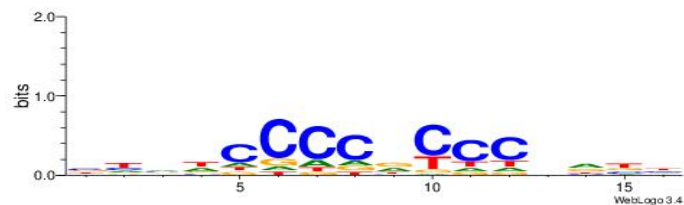
HVDVGGGHGGGGDBHB
RGRGGAGRRGGHGGDG

Original motif

Consensus sequence: BHVDCCCCDCCCBDBH

Reverse complement motif

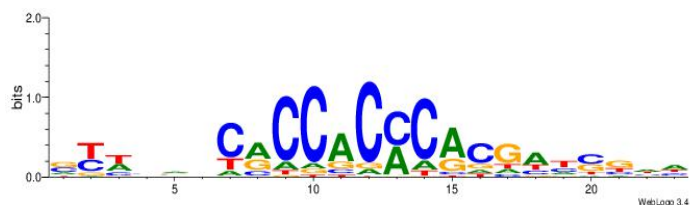
Consensus sequence: HVDVGGGHGGGGDBHB



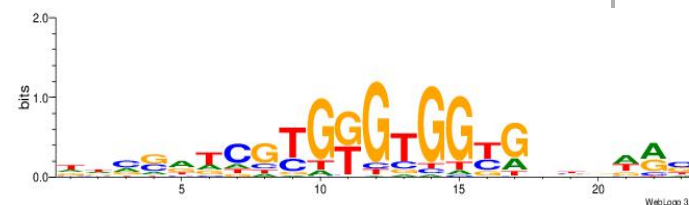
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 16
 Similarity score: 0.0627639

Alignment:
 HHBSHTCGTGRGTGGKGDBVWMV
 ----RGRGGAGRRGGHGGDG----

Original motif
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



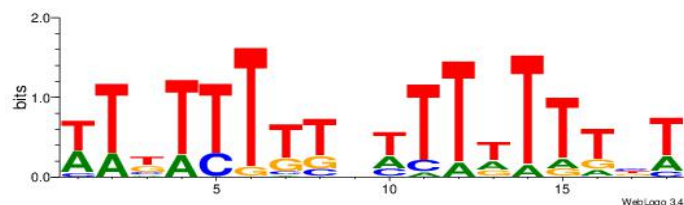
Reverse complement motif
 Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Dataset #: 1 **Motif ID: 7** **Motif name: TFM1**

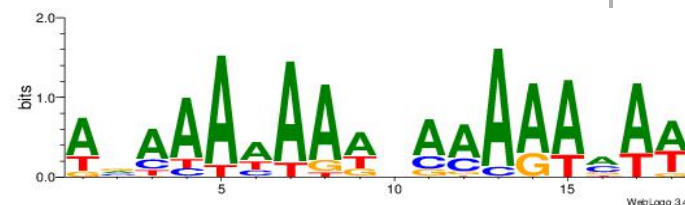
Original motif

Consensus sequence: WTKTTTTTHWTTTTTBT



Reverse complement motif

Consensus sequence: ABAAAAAWhAAAAARAW



Best Matches for Motif ID 7 (Highest to Lowest)

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:	Forward
Position number:	5
Number of overlap:	18
Similarity score:	0.0406097

Alignment:

HHBDHDDAACAATDRHHHHHBW

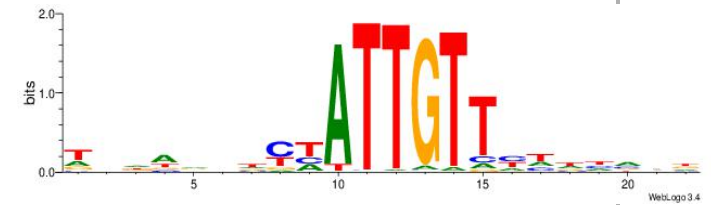
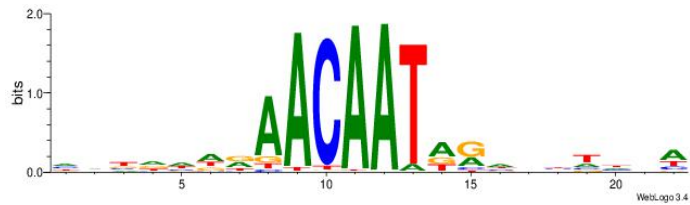
----ABAAAAAWhAAAAARAW

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH

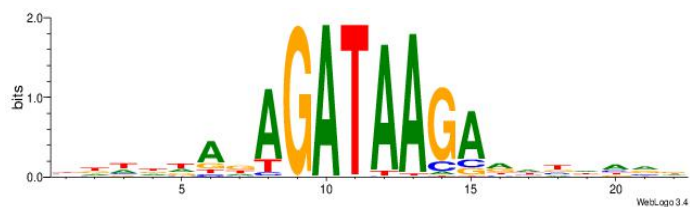


Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0549239

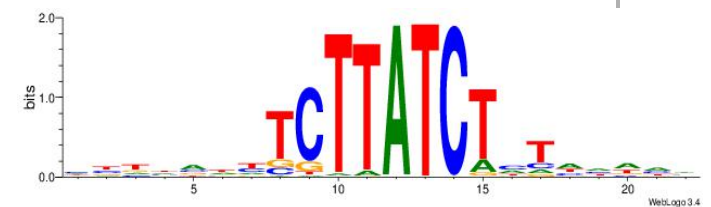
Alignment:

```
HBHVDVHDTCTTATCTHTDDHDV
---WTKTTTTTHWTTTTTTBT-
```

Original motif
Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00034](#)

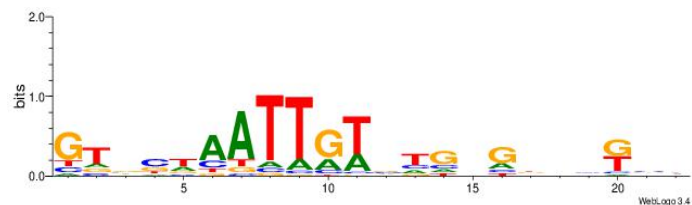
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0554316

Alignment:

VVYDDDCHCAVACAATTDBVAC
 ---ABAAAAAWhAAAAARAW-

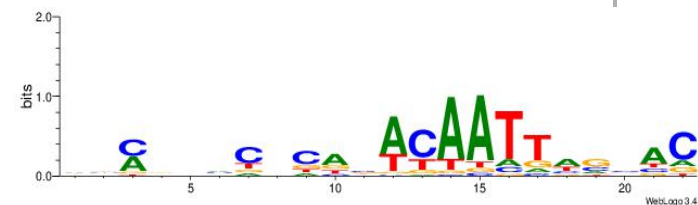
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

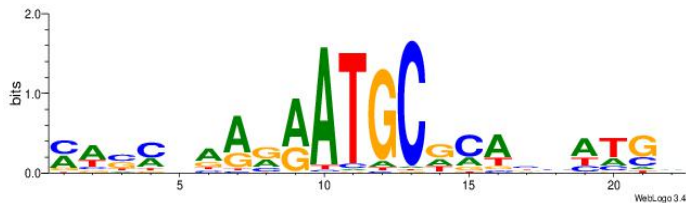


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 18

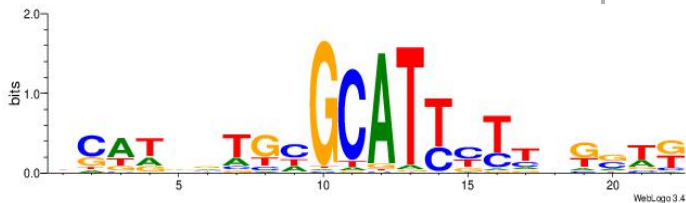
Similarity score: 0.0582891

Alignment:
MWSMBAARRATGCD CABHATGD
-ABAAAAAAWHAAAAARAW---

Original motif
Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
Consensus sequence: DCATDBTGHGCATKMTTBRSWR

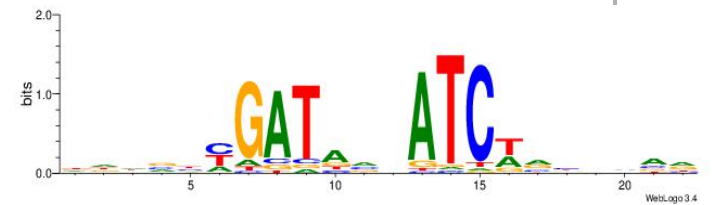
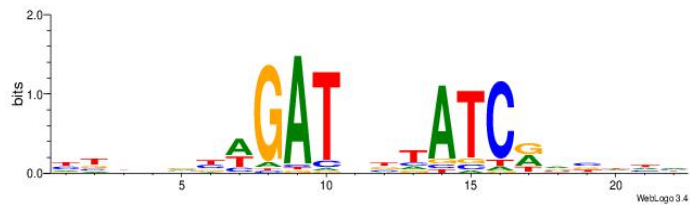


Motif ID: [UP00032](#)
Motif name: Gata3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.0594078

Alignment:
HBHDVBWGATHBTATCRVBHHH
--ABAAAAAAWHAAAAARAW--

Original motif
Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



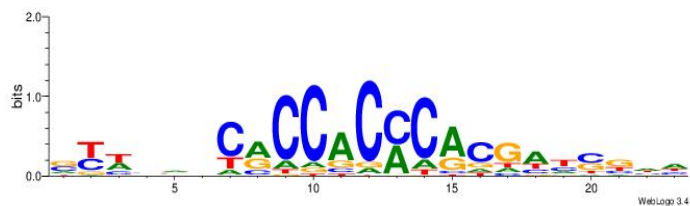
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0717094

Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
 -WTKTTTTTHWTTTTTTBT----

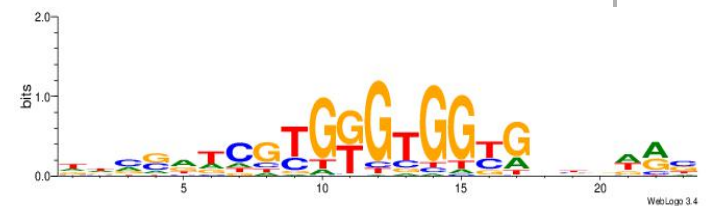
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



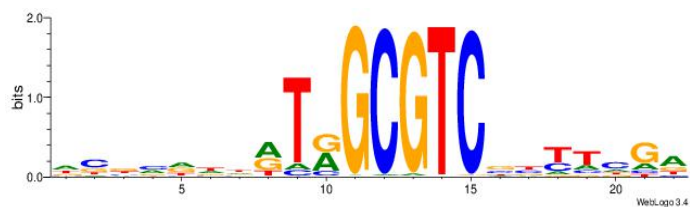
Motif ID: [UP00527](#)
 Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0722891

Alignment:

TCDAMVBGACGCMKDDDVBBB
 -ABAAAAAWhAAAAARAW---

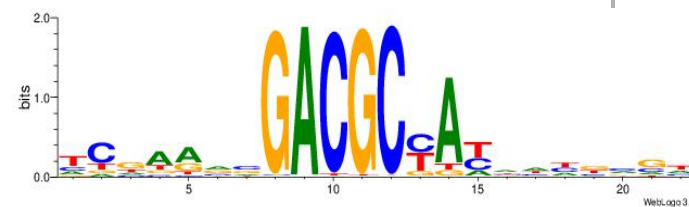
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBB



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: 4

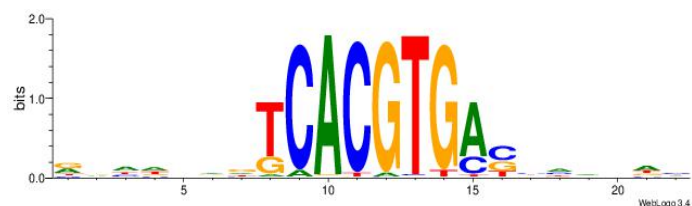
Number of overlap: 18
Similarity score: 0.0734635

Alignment:

DDHBHBSTCACGTGAHBBDHBM
-WTKTTTTTHWTTTTTTBT---

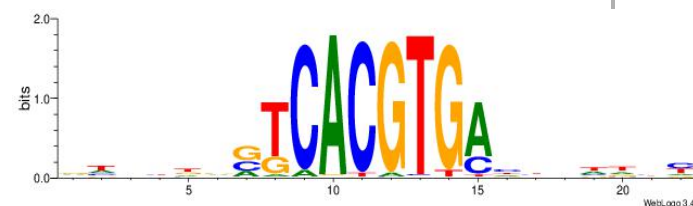
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHBM



Motif ID: [UP00077](#)
Motif name: Srf_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: 17
Similarity score: 0.531811

Alignment:

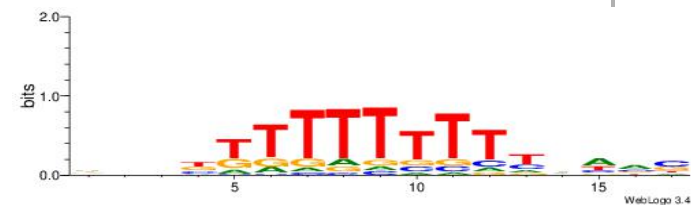
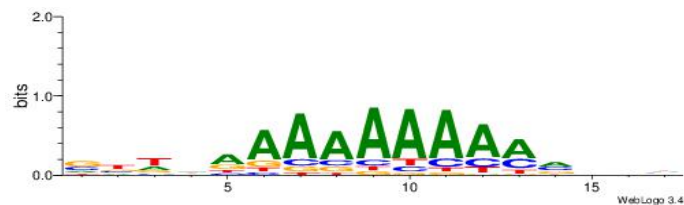
-VBDDAAAAAAAAMVBHH
WTKTTTTTHWTTTTTTBT-

Original motif

Consensus sequence: VBDDAAAAAAAAMVBHH

Reverse complement motif

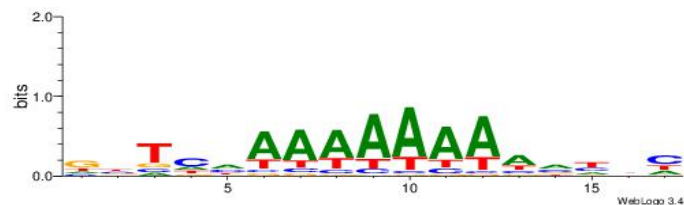
Consensus sequence: HHVBYTTTTTTTTDDVV



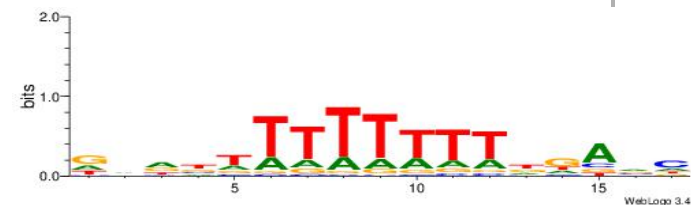
Motif ID: [UP00090](#)
 Motif name: Elf3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.538813

Alignment:
 DDHBTTTTTTTTTHDAVH-
 ABAAAAAWhAAAAARAW

Original motif
 Consensus sequence: DBTHHAAAAAAAAAVHDH



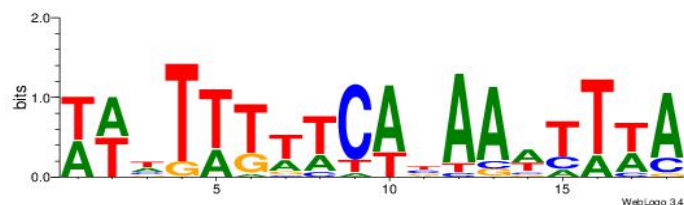
Reverse complement motif
 Consensus sequence: DDHBTTTTTTTTTHDAVH



Dataset #: 1 Motif ID: 8 Motif name: TFM3

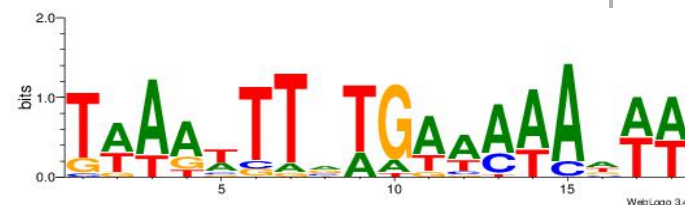
Original motif

Consensus sequence: WWHTTTTTTCABAAWTTWA



Reverse complement motif

Consensus sequence: TWAAWTTVTGAAAAHWW



Best Matches for Motif ID 8 (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:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0560226

Alignment:

VVYDDDCHCAVACAATTDBVAC

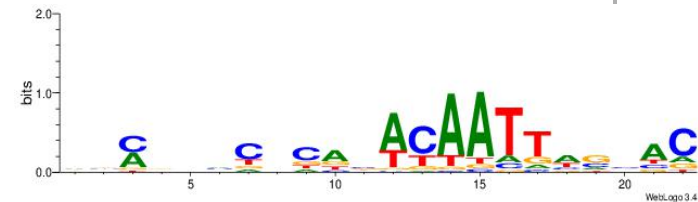
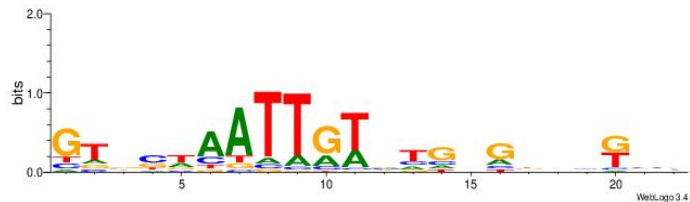
WWHTTTTTTCABAAWTTWA----

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

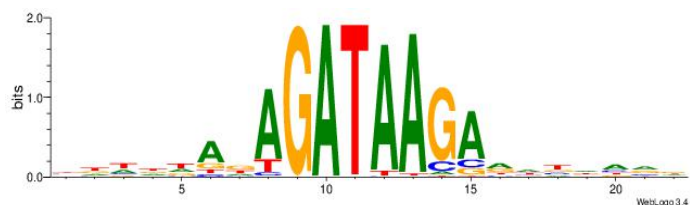


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.065044

Alignment:
 BDHDDADAGATAAGADHBDHVD
 ---WWHTTTTTTCABAAWTTWA-

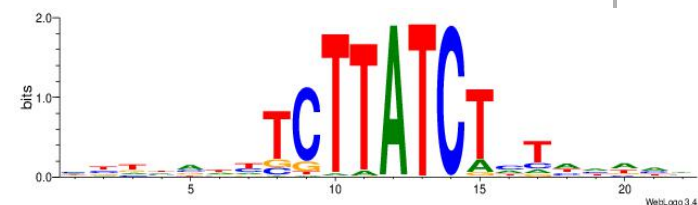
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00032](#)

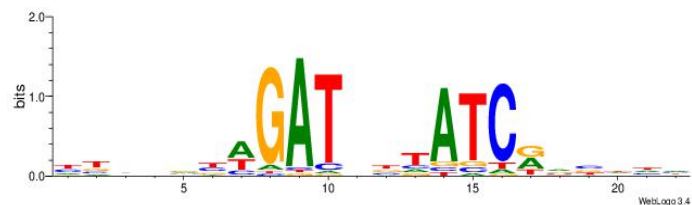
Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 18
 Similarity score: 0.0697095

Alignment:

HBHDVBWGATHBTATCRVBHHH
 ----WWHTTTTTCABAAWTTWA

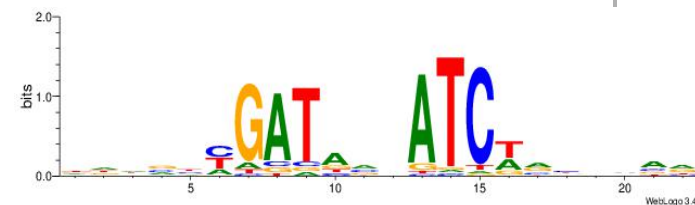
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVVH



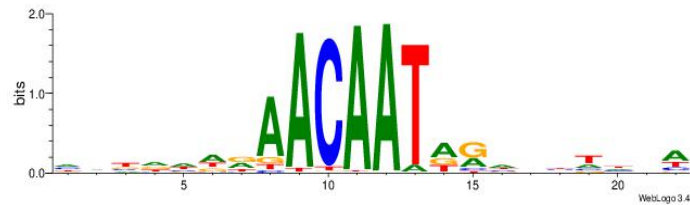
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 18
 Similarity score: 0.071426

Alignment:

WBHHHHHMDATTGTTDHDVHH
TWAAWTTVTGAAAAHWW----

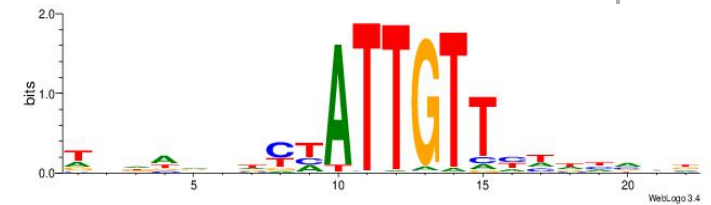
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH



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:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0731314

Alignment:

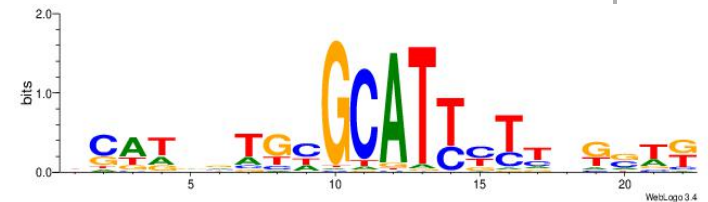
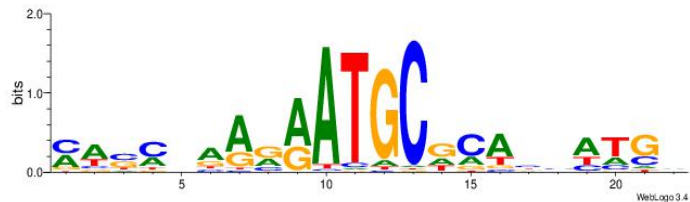
DCATDBTGHGCATKMTTBRSWR
--WWHTTTTTCABAAWTTWA--

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



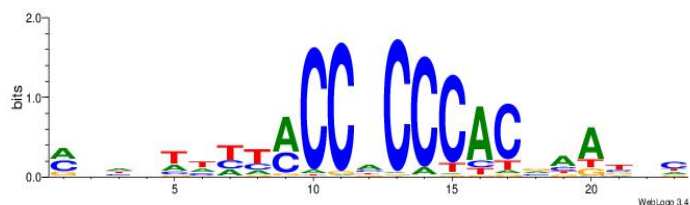
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0755032

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 --WWHTTTTTCABAAWTTWA---

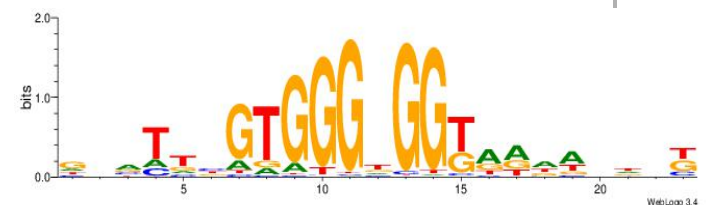
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00540](#)

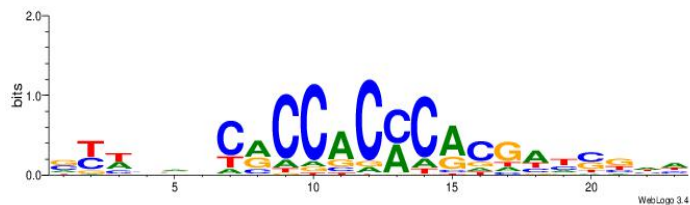
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 18
 Similarity score: 0.078731

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -WWHTTTTTCABAAWTTWA----

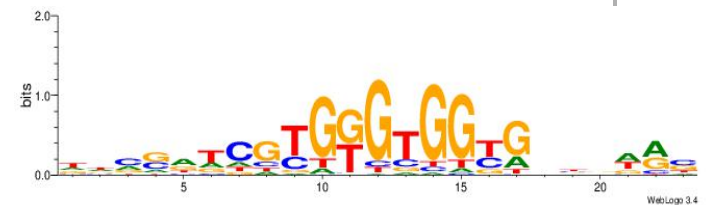
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

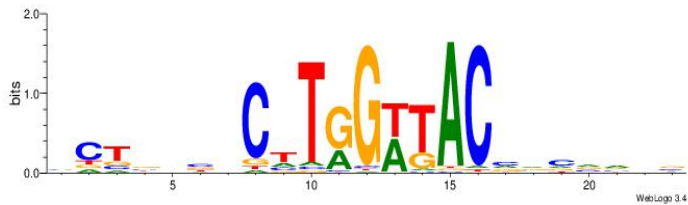


Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18

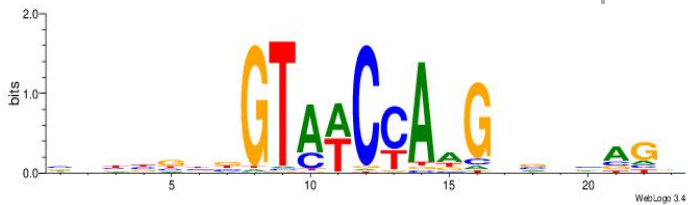
Similarity score: 0.0794414

Alignment:
VCTBHBVCTTGGWTACVVVVVDB
----TWAAWTTVTGAAAAHWW--

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB

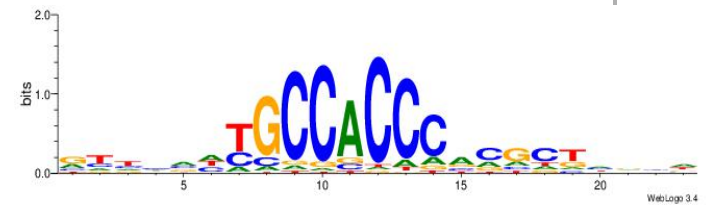
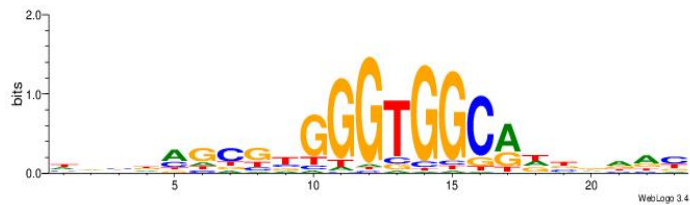


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 18
Similarity score: 0.0796126

Alignment:
BDDHVDKGCCACCCVCGCTDBVH
-WWHTTTTTCABAAWTTWA----

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

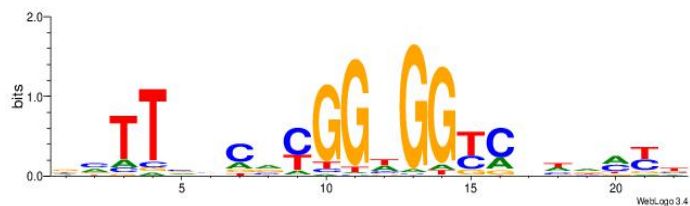
Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



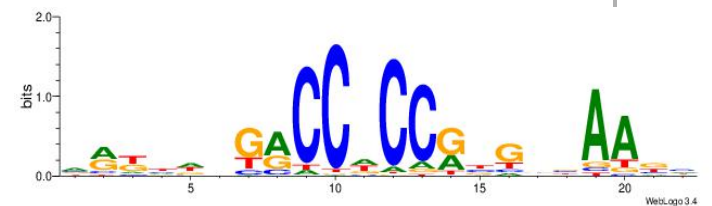
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0797884

Alignment:
 DVTTVVCVYGGHGGYCHHDMYB
 ---TWAAWTTVTGAAAAHWW-

Original motif
 Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



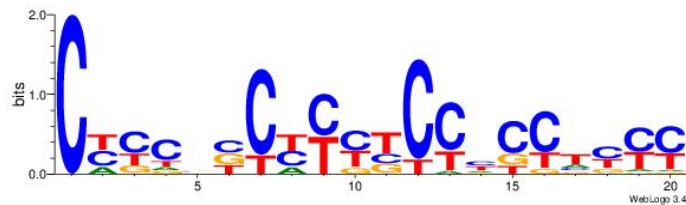
Reverse complement motif
 Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH



Dataset #: 1 **Motif ID: 9** **Motif name: TFM12**

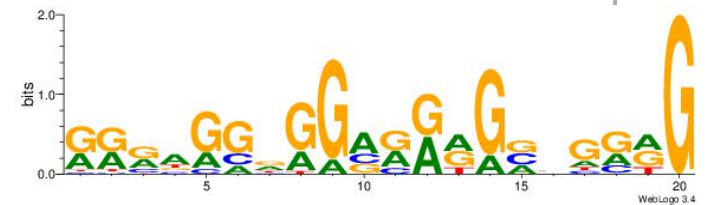
Original motif

Consensus sequence: CYYCBBCYYYTCCHCCTYYY



Reverse complement motif

Consensus sequence: KKKAGGDGGAKKMGBBGKMG



Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	UP00539
Motif name:	Gli2_v016060_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:	20
Similarity score:	0.0528574

Alignment:

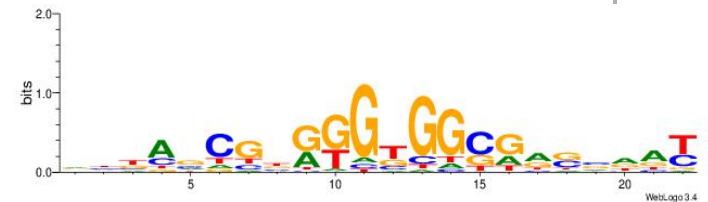
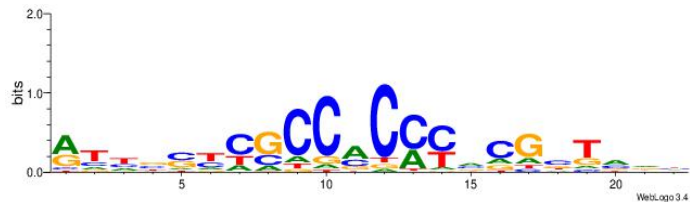
```
HDBABCGBKRGYGGCGMSBHAK
--KKKAGGDGGAKKMGBBGKMG
```

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

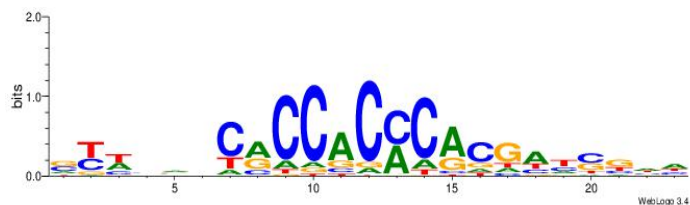
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



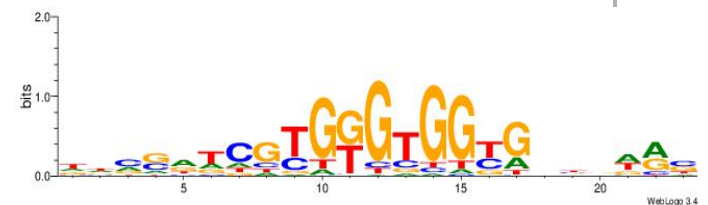
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0585594

Alignment:
 VYWVVHCRCCACMCACGAHSBHH
 CYVCBBCYYYTCCHCCTYYY---

Original motif
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
 Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary

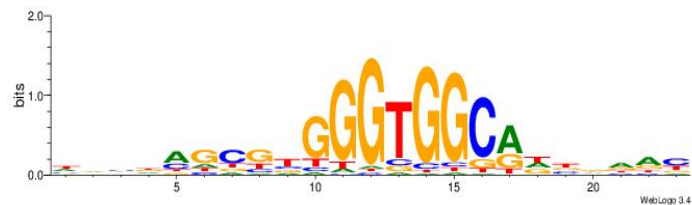
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0625384

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 -KKKAGGDGGAKKMGBBGKMG--

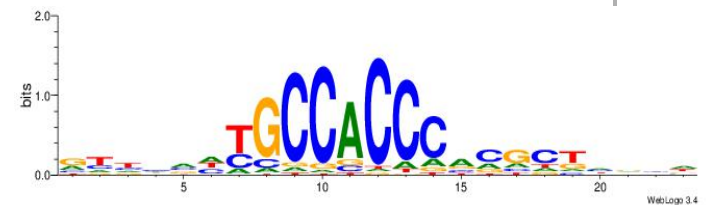
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDPGCCACCCVCGCTDBVH



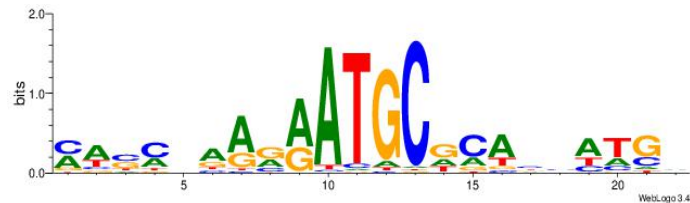
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0639685

Alignment:

DCATDBTGHGCATKMTTBRSWR
--KKKAGGDGGAKKMGBBGKMG

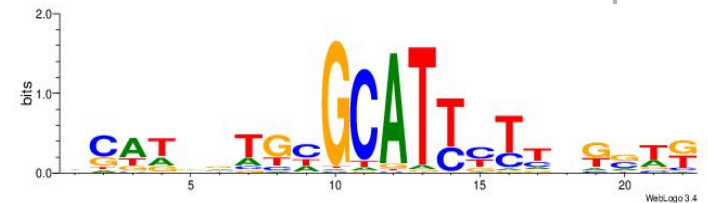
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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:	3
Number of overlap:	20
Similarity score:	0.0648037

Alignment:

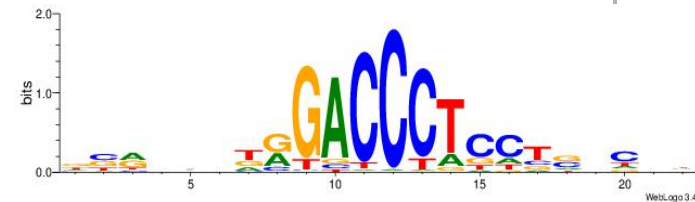
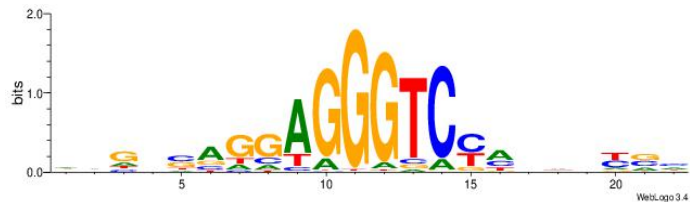
DVMHHDHKGACCCTCCTSVCBH
CYVCBBCYYYTCCHCCTYYY--

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



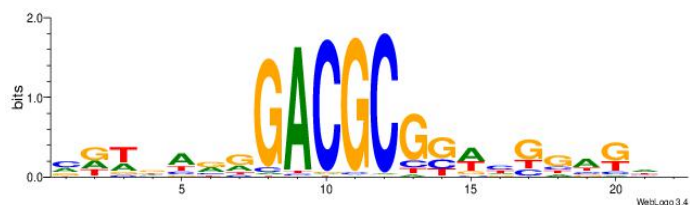
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0649332

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 CYYCBBCYYYTCCHCCTYYY--

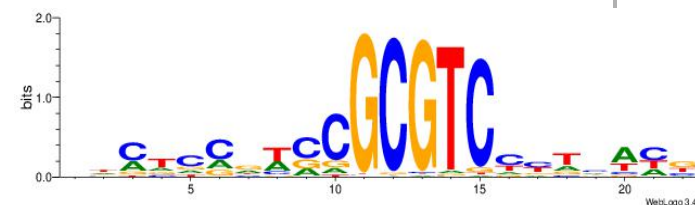
Original motif

Consensus sequence: VDW DARRGACGCGGWHGGA KHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00034](#)

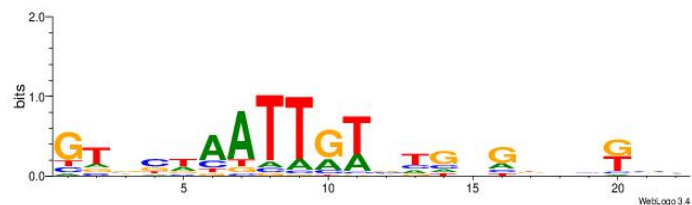
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0652647

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 --KKKAGGDGGAKKMGBBGKMG

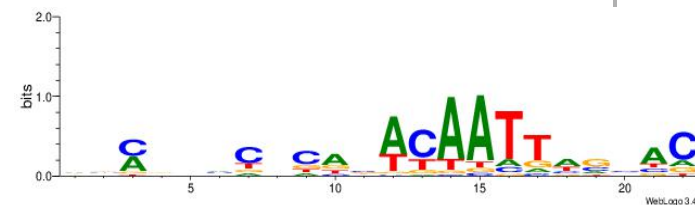
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

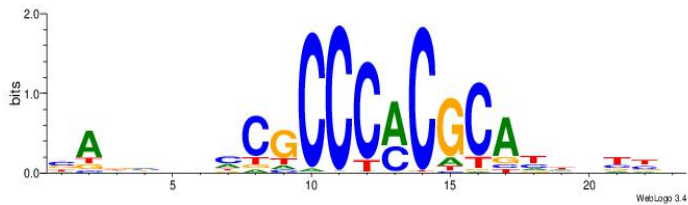


Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20

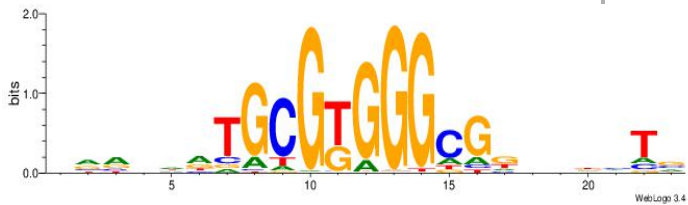
Similarity score: 0.0703354

Alignment:
VVVDHHTGCGYGGGCGDHVHHTB
--KKKAGGDGGAKKMGBBGKMG--

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

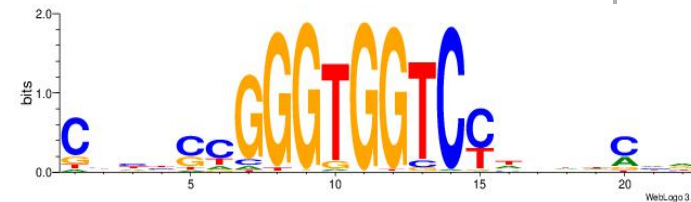
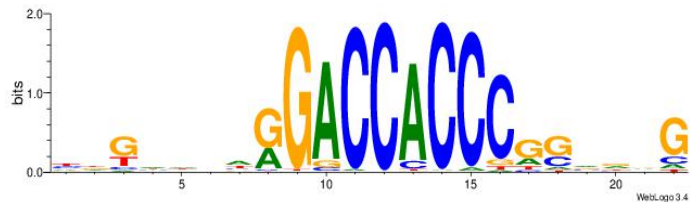


Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0706876

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
KKKAGGDGGAKKMGBBGKMG--

Original motif
Consensus sequence: HDGHHBHRGACCACCGSVDVG

Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



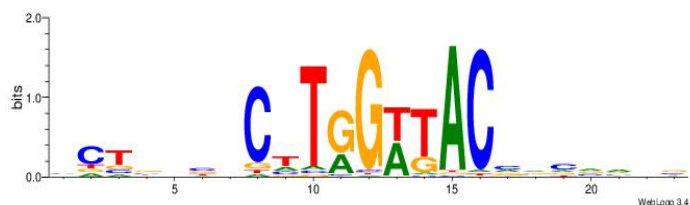
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0710664

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
 --KKKAGGDGGAKKMGBBGKMG--

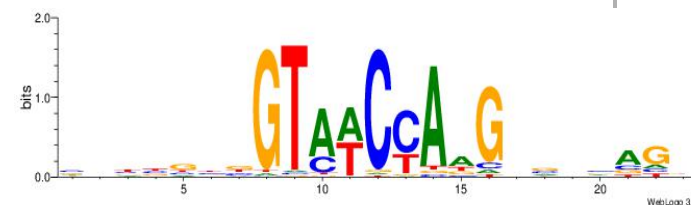
Original motif

Consensus sequence: VCTBHBVCTTGGWTACV V V V V VDB



Reverse complement motif

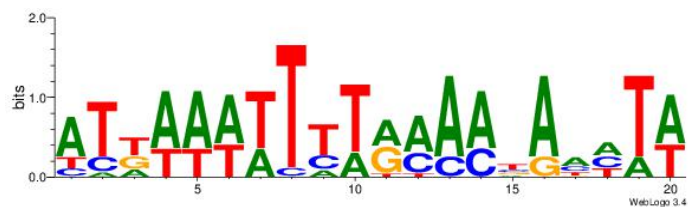
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Dataset #: 1 **Motif ID: 10** **Motif name: TFM13**

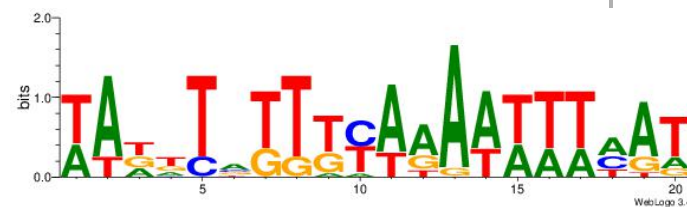
Original motif

Consensus sequence: ATKAAWTTTTRMAABAHHTW



Reverse complement motif

Consensus sequence: WAHHTVTTYKAAAWTTTRAT



Best Matches for Motif ID 10 (Highest to Lowest)

Motif ID:	UP00034
Motif name:	Sox7_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:	20
Similarity score:	0.0556257

Alignment:

VVYDDDCHCAVACAATTDBVAC

-WAHHTVTTYKAAAWTTTRAT-

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

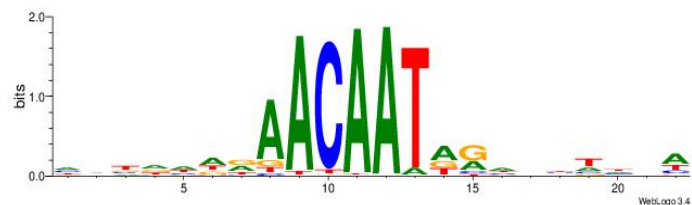
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.064945

Alignment:

WBHHHHHMDATTGTTDHDVHH
 --WAHHTVTTYKAAAWTTRAT

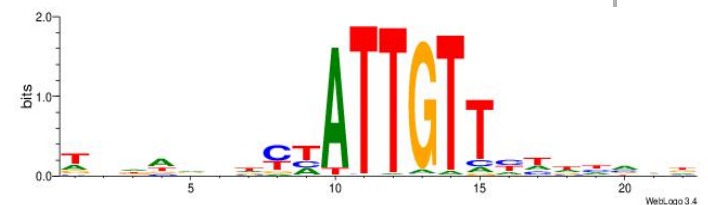
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH

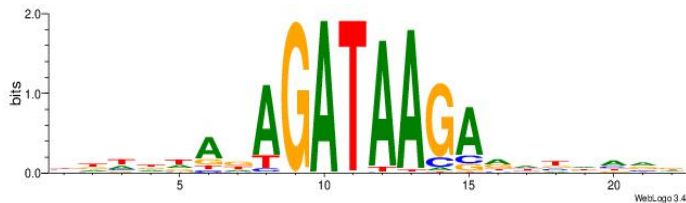


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20

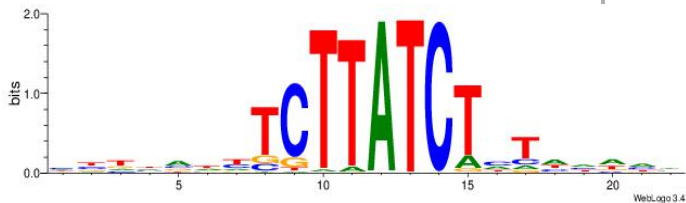
Similarity score: 0.0651681

Alignment:
HBHDVHDTCTTATCTHTDDHDV
ATKAAWTTTTRMAABAHHTW--

Original motif
Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV

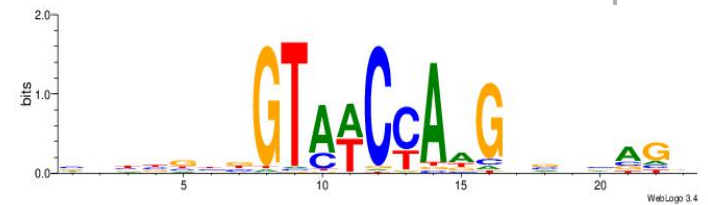
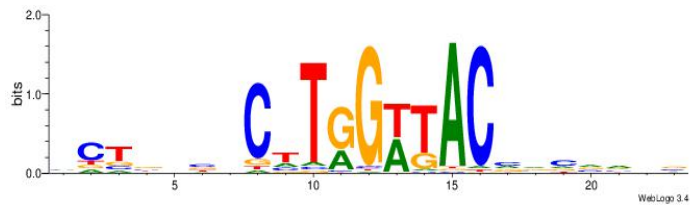


Motif ID: [UP00098](#)
Motif name: Rfx3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0670788

Alignment:
BDBBVBVGTAWCCAAGVBHBAGB
-ATKAAWTTTTRMAABAHHTW--

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB

Reverse complement motif
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



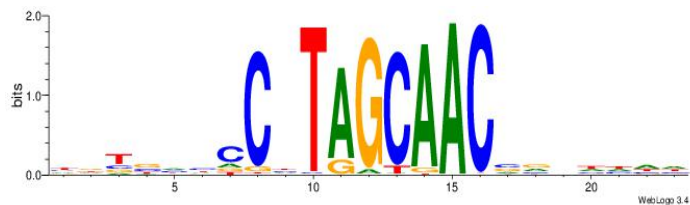
Motif ID: [UP00098](#)
 Motif name: Rfx3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.070823

Alignment:

HDTBHHCCHTAGCAACVVDHHHH
 -ATKAAWTTTTRMAABAHHTW--

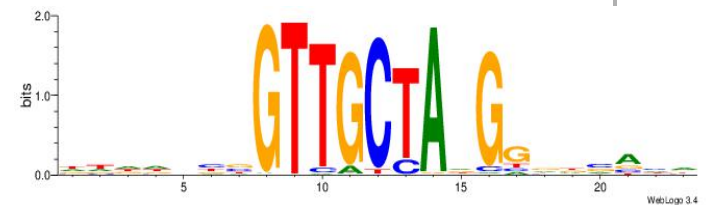
Original motif

Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH



Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



Motif ID: [UP00528](#)

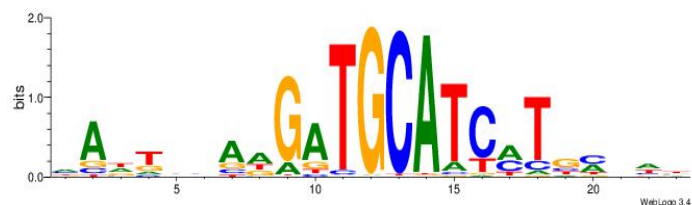
Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0734735

Alignment:

VHVRCAYGATGCATCDTVVADTH
 WAHHTVTTYKAAAATTRAT---

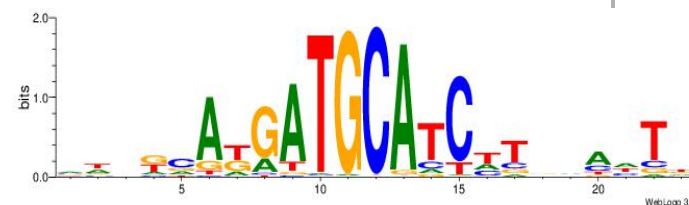
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



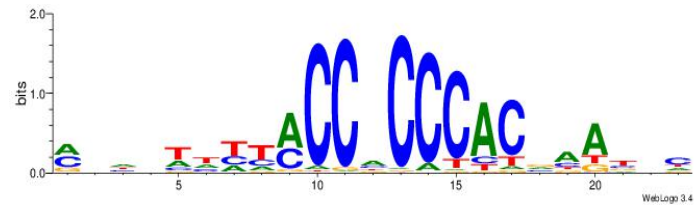
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0743251

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
ATKAAWTTTTRMAABAHHTW---

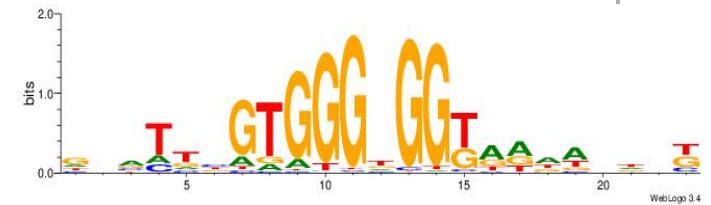
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID:	UP00528
Motif name:	Foxm1_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:	19
Similarity score:	0.567157

Alignment:

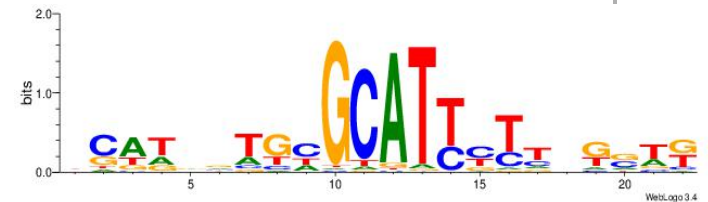
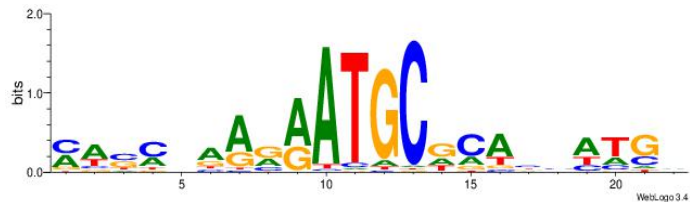
MWSMBAARRATGCD CABHATGD-
---ATKAAWTTTTRMAABAHHTW

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

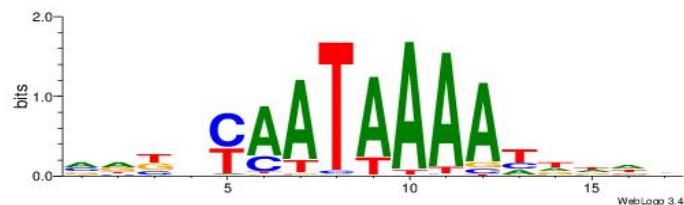
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



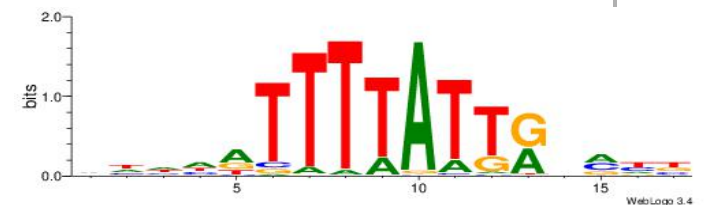
Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 17
 Similarity score: 1.54045

Alignment:
 ---HDDDATTTTATTKVRDB
 WAHHTVTTYKAAAATTTTAT-

Original motif
 Consensus sequence: VDKVYAATAAAATDDDH



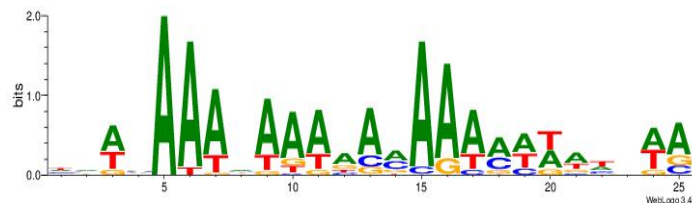
Reverse complement motif
 Consensus sequence: HDDDATTTTATTKVRDB



Dataset #: 1 **Motif ID: 11** **Motif name: TFM11**

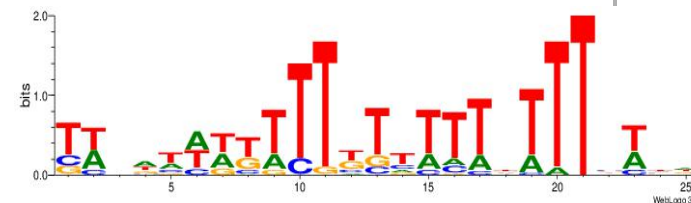
Original motif

Consensus sequence: HDWVAAAHAAAAAMAAAMWWWHBWA



Reverse complement motif

Consensus sequence: TWVHWWYTTTTYTTTTTHTTTTVWE



Best Matches for Motif ID 11 (Highest to Lowest)

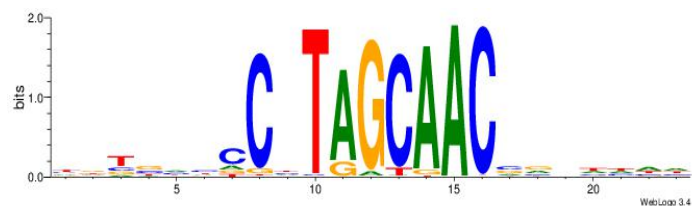
Motif ID:	UP00098
Motif name:	Rfx3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	23
Similarity score:	0.0760601

Alignment:

```
--HDTBHHCCTAGCAACVVDHHHH
HDWVAAAHAAAAAMAAAMWWWHBWA--
```

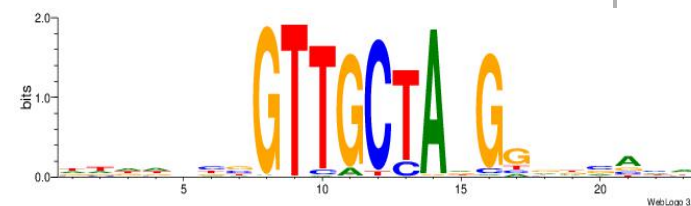
Original motif

Consensus sequence: HDTBHHCCTAGCAACVVDHHHH



Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



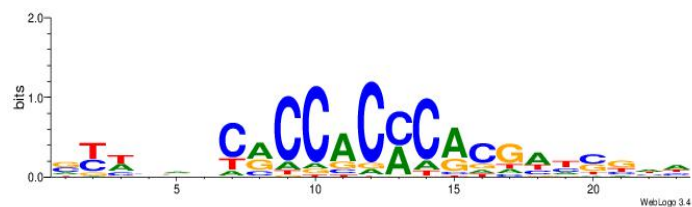
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0803516

Alignment:

VYWVVHCRCCACMCACGAHSBHH--
 HDWVAAAHAAAAAMAAAMWWWHBWA

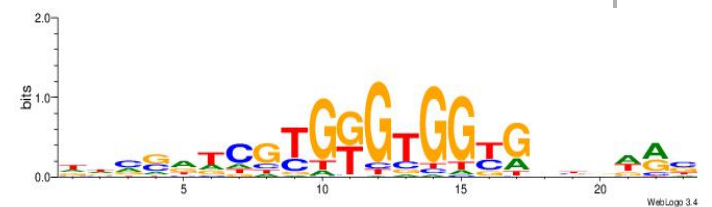
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00528](#)
 Motif name: Foxm1_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: 23

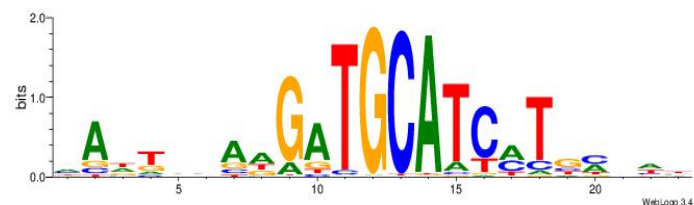
Similarity score: 0.0808735

Alignment:

HADTBVADGATGCATCMTGMVHB--
-HDWVAAAHAAAAAAMAAAMWWWHBWA

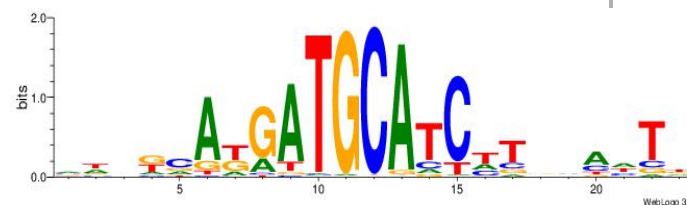
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



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: Backward
Position number: 3
Number of overlap: 23
Similarity score: 0.0812213

Alignment:

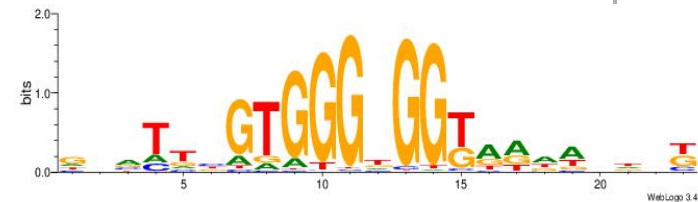
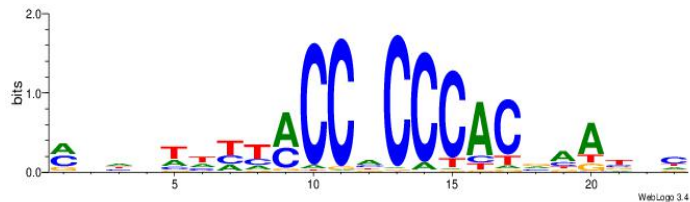
--MHHHWHYTMCCCHCCACVAABVH
HDWVAAAHAAAAAAMAAAMWWWHBWA--

Original motif

Consensus sequence: MHHHWHYTMCCCHCCACVAABVH

Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



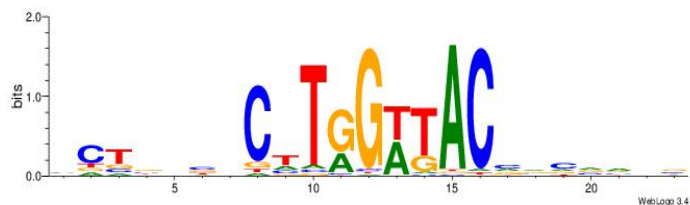
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0813067

Alignment:

VCTBHBVCTTGGWTACVVVVVDB--
 HDWVAAAHAAAAAMAAAMWWWHBWA

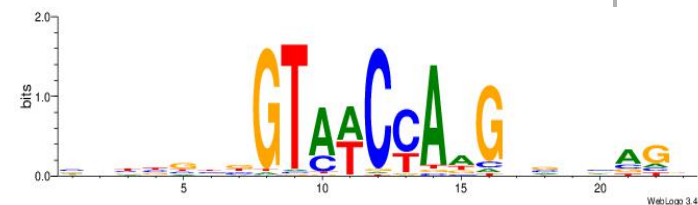
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary

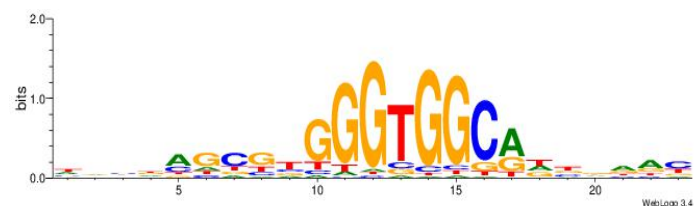
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0869107

Alignment:

BDDHVDKGCCACCCVCGCTDBVH--
 -TWVHWWYTTTYTTTTTHTTTVWBH

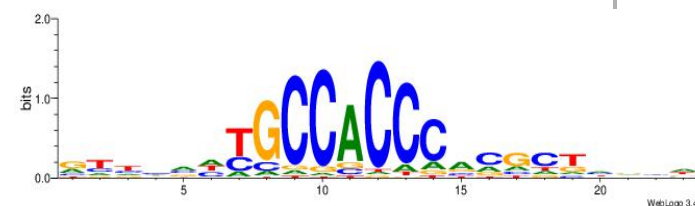
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



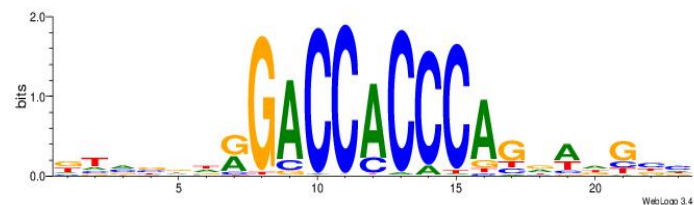
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0877809

Alignment:

DBCDWHCTGGGTGGTCMDHBBAH--
 -TWVHWWYTTTTYTTTTTHTTTVWBH

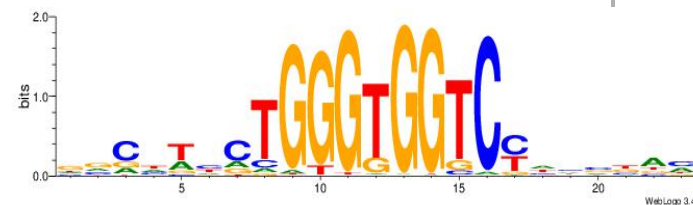
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



Motif ID:	UP00050
Motif name:	Bhlhb2_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	23
Similarity score:	0.0879037

Alignment:

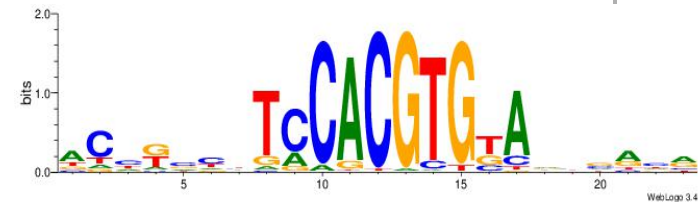
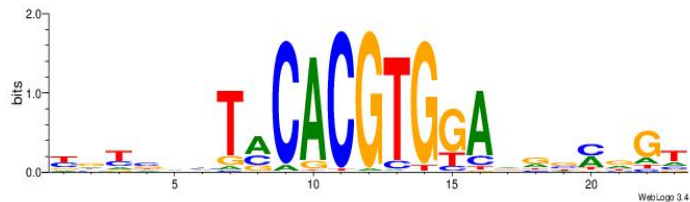
--ACHRBHDTCCACGTGYAHBMMH
 TWVHWWYTTTTYTTTTTHTTTVWBH

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



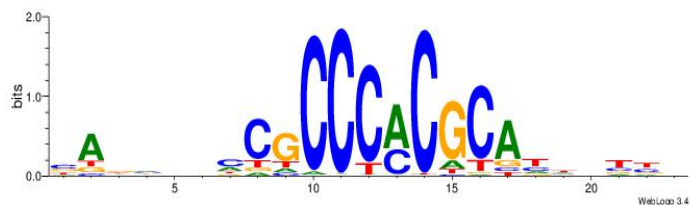
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0891795

Alignment:

BADHBDHCGCCCMCGCAHHDBBV--
 -HDWVAAAHAAAAAAMAAAMWWWHBWA

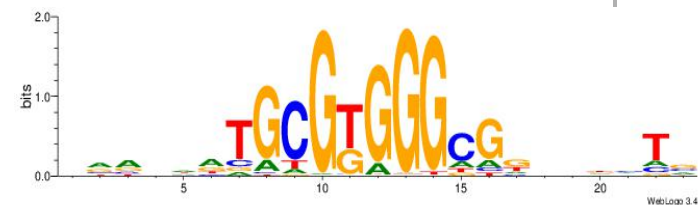
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTTB



Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary

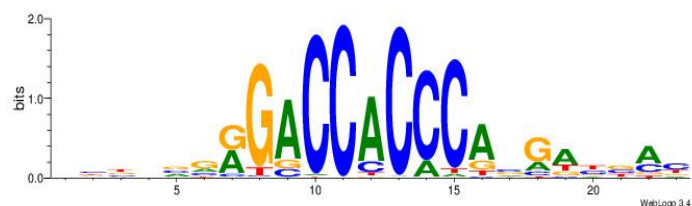
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0895093

Alignment:

BBBDVVRGACCACCCAVGABBAB--
 HDWVAAAHAAAAAMAAAMWWWHBWA

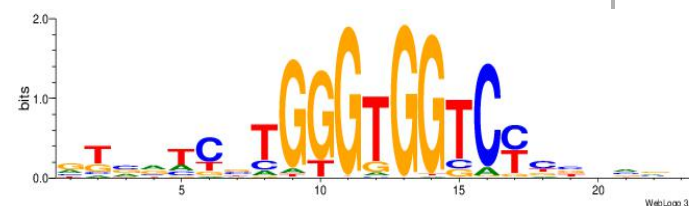
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

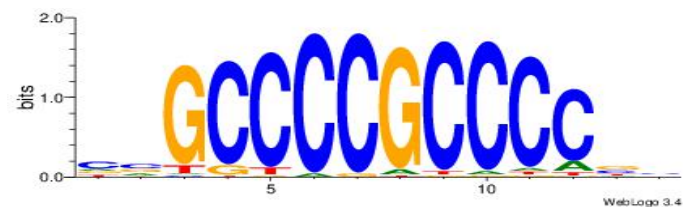
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Dataset #: 2 **Motif ID: 12** **Motif name: csGCCCCGCCCCsc**

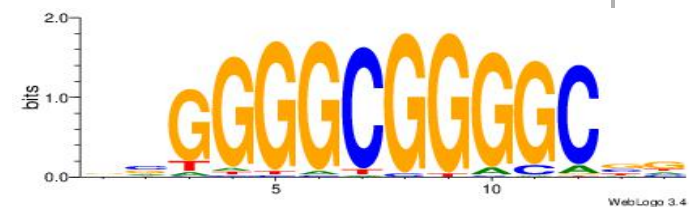
Original motif

Consensus sequence: HVGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



Best Matches for Motif ID 12 (Highest to Lowest)

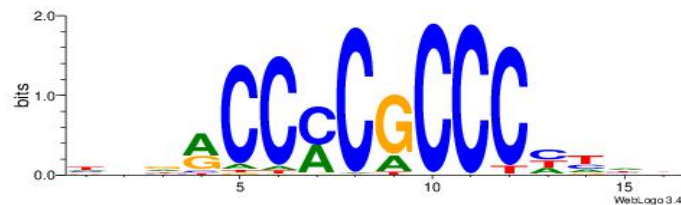
Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0

Alignment:

HBDRCCMCGCCCHHHD
-HVGCCCGCCCCBB-

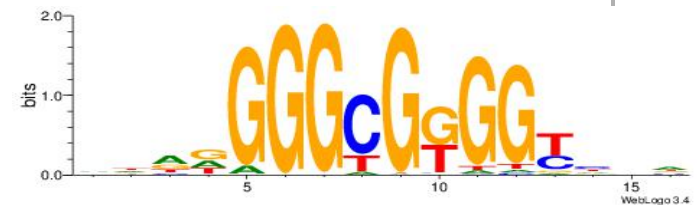
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00000](#)
Motif name: Smad3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

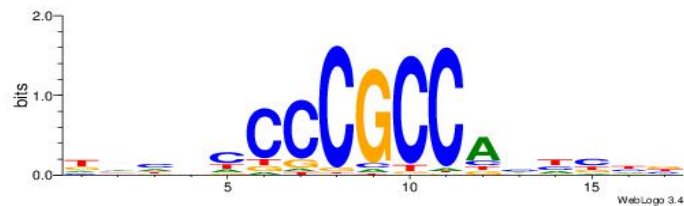
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0106621

Alignment:

```
DHHBCCCCGCCAHHBHB
-HVGCCCCGCCCB--
```

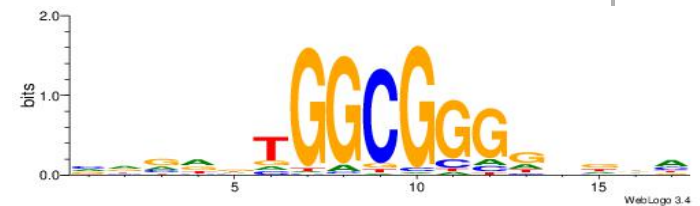
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



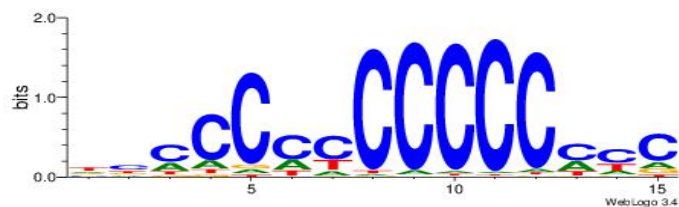
Motif ID:	UP00021
Motif name:	Zfp281_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.017761

Alignment:

```
GKRGGGGGGGGGGBD
BBGGGGCGGGGCVD-
```

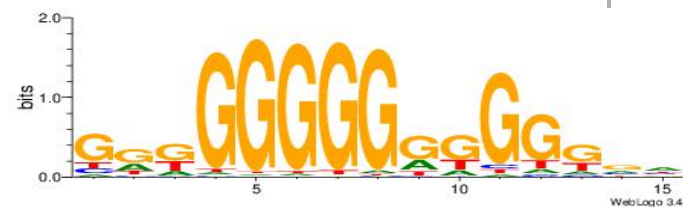
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGGBD



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: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0181905

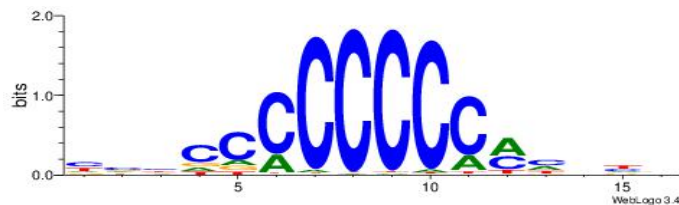
Alignment:

HVBCCCCCCCCMHHHB

HVCCCCGCCCCBB--

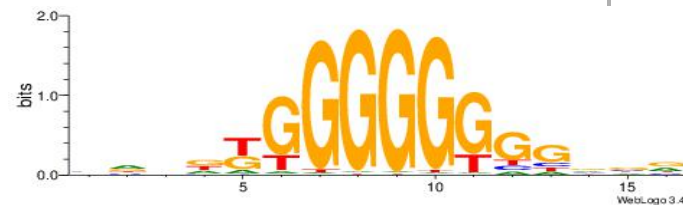
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



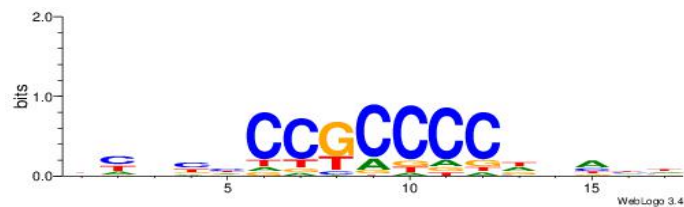
Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0225788

Alignment:

BHHBHCCGCCCCDHHHH
HVGCCCGCCCB---

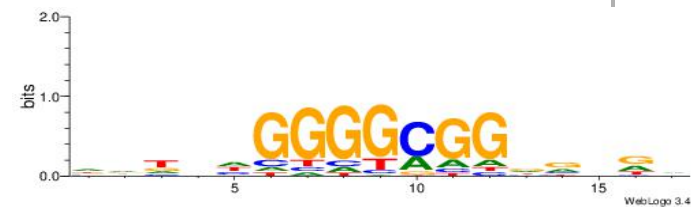
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00002](#)
Motif name: Sp4_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward

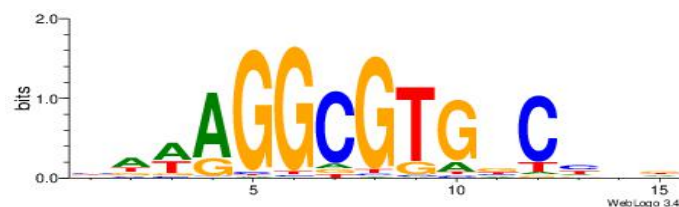
Position number: 2
Number of overlap: 14
Similarity score: 0.0277585

Alignment:

BDWAGGCGTGBCHHD
BBGGGGCGGGGCVD-

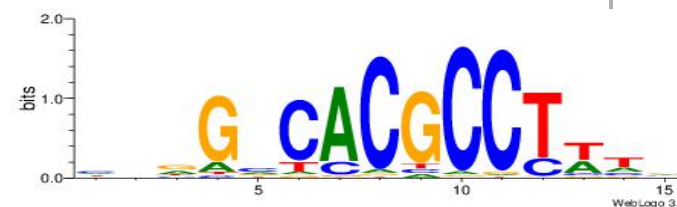
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



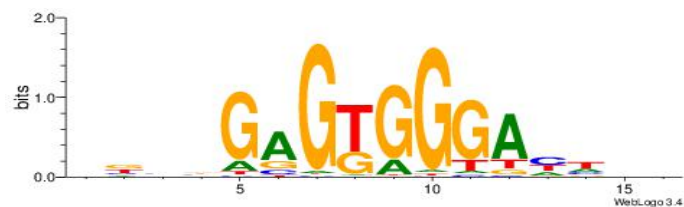
Motif ID: [UP00007](#)
Motif name: Egr1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0318885

Alignment:

BHHDTCCTCACTCBDBV
-HVGCCCCGCCCCBB-

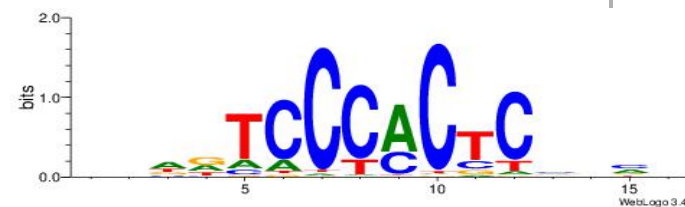
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCCACTCBDBV



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: Forward

Position number: 1

Number of overlap: 14

Similarity score: 0.0330753

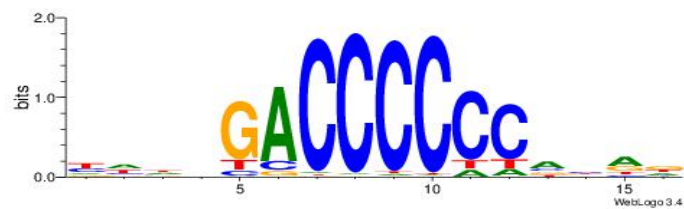
Alignment:

HKBBGGGGGGTCVHHH

BBGGGGCGGGGCVD--

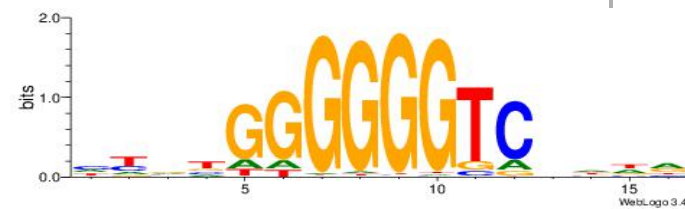
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCVHHH



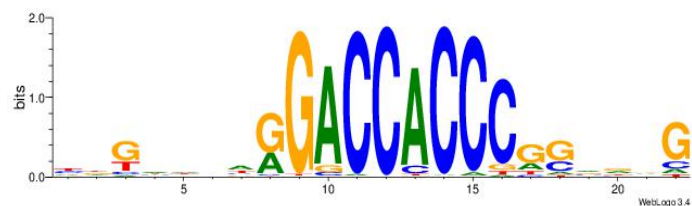
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0334003

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 ---BBGGGGCGGGGCVD-----

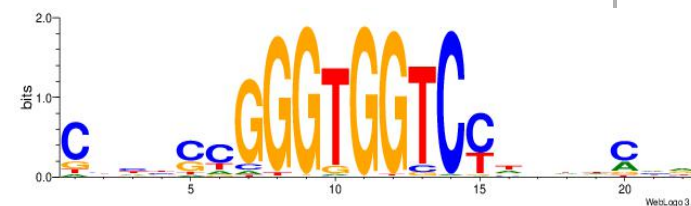
Original motif

Consensus sequence: HDGHHBHRGACCACCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



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: Forward

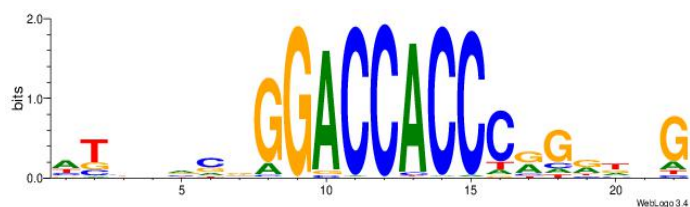
Position number: 4
 Number of overlap: 14
 Similarity score: 0.0351614

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 ---BBGGGGCGGGGCVD-----

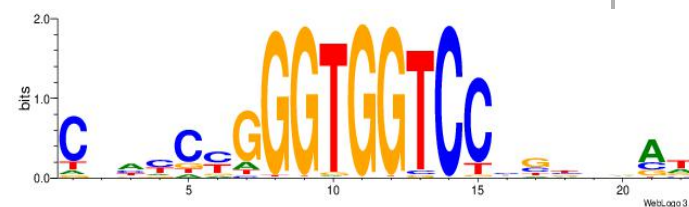
Original motif

Consensus sequence: HTBVVVDGGACCACCRGRDBG



Reverse complement motif

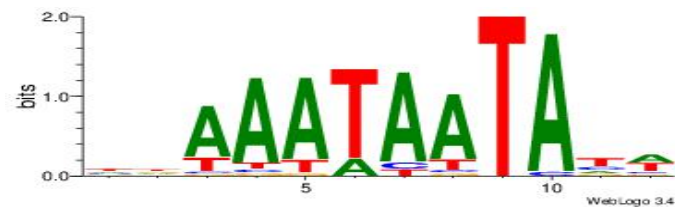
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Dataset #: 2 Motif ID: 13 Motif name: tkAAATAATatw

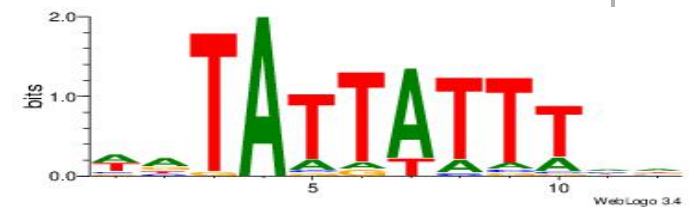
Original motif

Consensus sequence: HDAAATAATAHW



Reverse complement motif

Consensus sequence: WHTATTATTTDH



Best Matches for Motif ID 13 (Highest to Lowest)

Motif ID: [UP00121](#)
 Motif name: Hoxd10

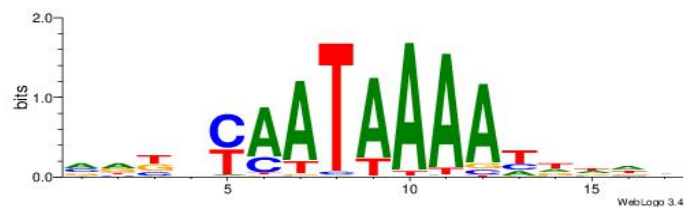
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.00353196

Alignment:

HDDDATTTTATTKVRDB
 ---WHTATTATTTDH--

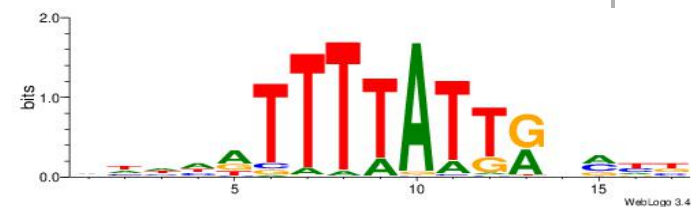
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00244](#)
 Motif name: Tlx2
 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: 0.00646023

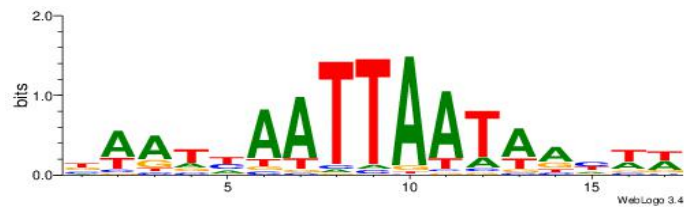
Alignment:

WWDTTATTAATTHATTV

--WHTATTATTTDH---

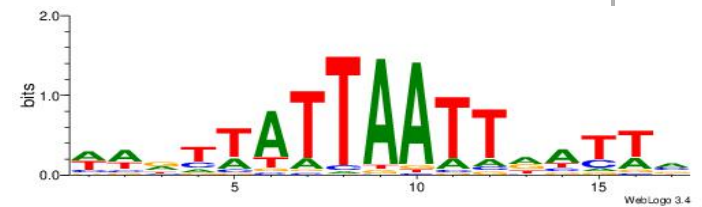
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



Motif ID:

[UP00051](#)

Motif name:

Sox8_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:

12

Similarity score:

0.0120674

Alignment:

DDDHDAACAATWBATDD

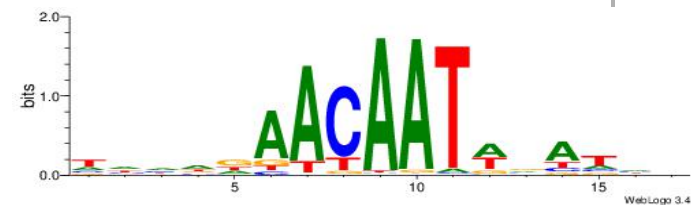
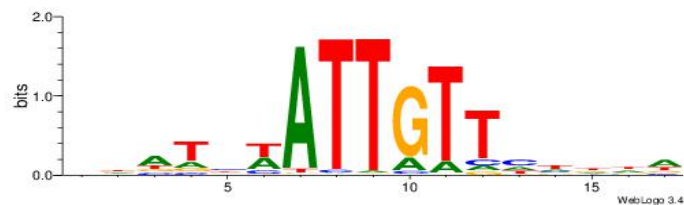
--HDAAATAATAHW---

Original motif

Consensus sequence: DDATBWATTGTTHHDDD

Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD

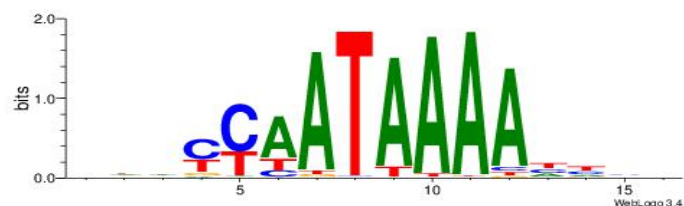


Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0123772

Alignment:
 HDHHTTTTATTKKHDD
 --WHTATTATTTDH--

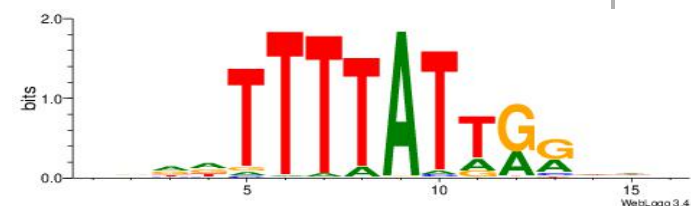
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00037](#)

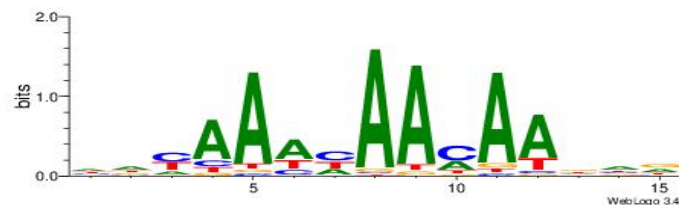
Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0129559

Alignment:

HHHTTRTTDTTCKDH
 --WHTATTATTDDH-

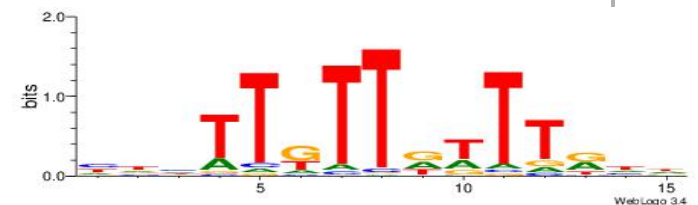
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTCKDH



Motif ID: [UP00064](#)
 Motif name: Sox18_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: 12

Similarity score: 0.0130138

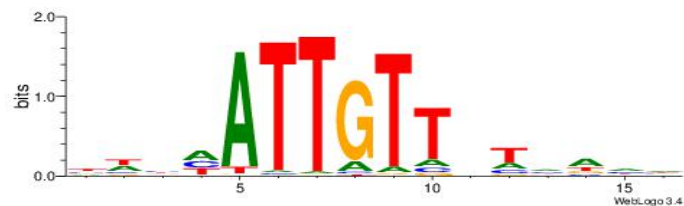
Alignment:

HHDHABAACAATHBWV

---HDAAATAATAHW-

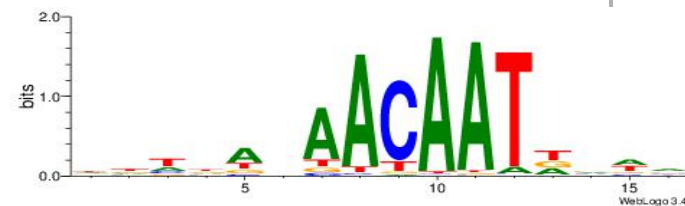
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



Motif ID: [UP00255](#)

Motif name: Dbx1

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: 12

Similarity score: 0.0131034

Alignment:

HARTHAATTAWTAVDHD

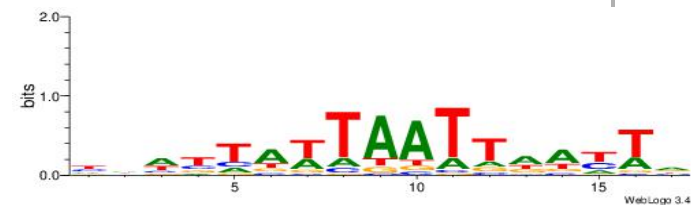
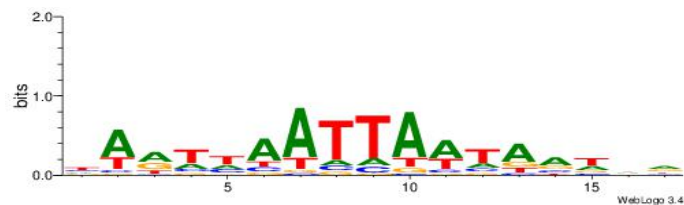
---HDAAATAATAHW--

Original motif

Consensus sequence: HARTHAATTAWTAVDHD

Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH

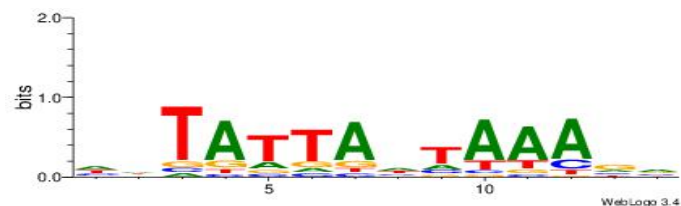


Motif ID: [UP00024](#)
 Motif name: Glis2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0140433

Alignment:
 HDTATTAHTAAVV
 --HDAATAATAHW

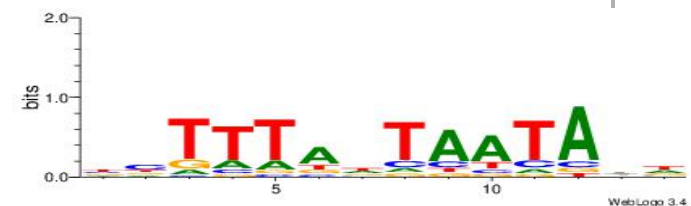
Original motif

Consensus sequence: HDTATTAHTAAVV



Reverse complement motif

Consensus sequence: BVTTTAHTAATADH



Motif ID: [UP00075](#)
 Motif name: Sox15_primary

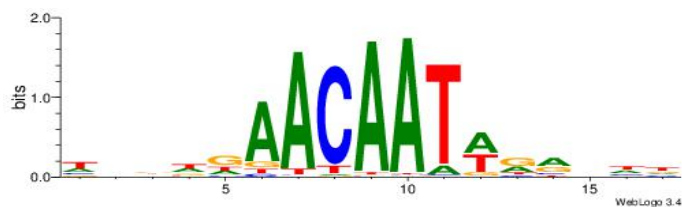
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0143532

Alignment:

DHVKMWATTGTTHDHDH
 ---WHTATTATTTDH--

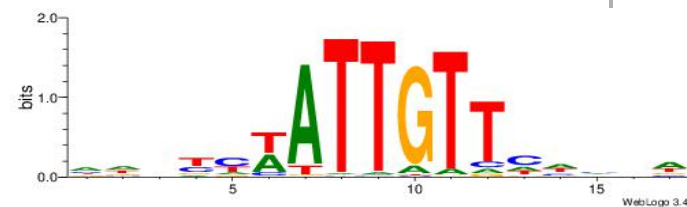
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



Motif ID: [UP00096](#)
 Motif name: Sox13_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: 0.014607

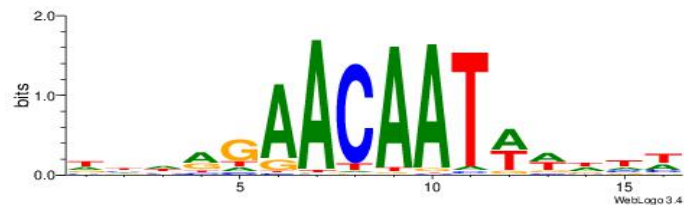
Alignment:

DHDRGAACAATWWDHW

--HDAAATAATAHW--

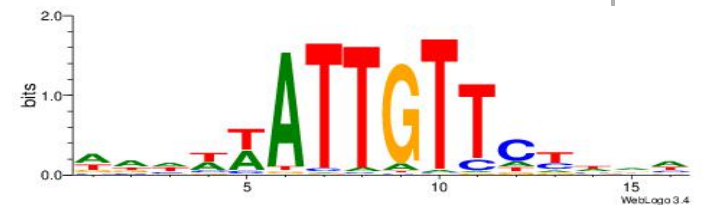
Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



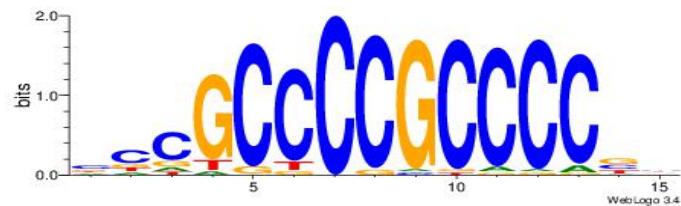
Dataset #: 2

Motif ID: 14

Motif name: cccGCCCCGCCCCsb

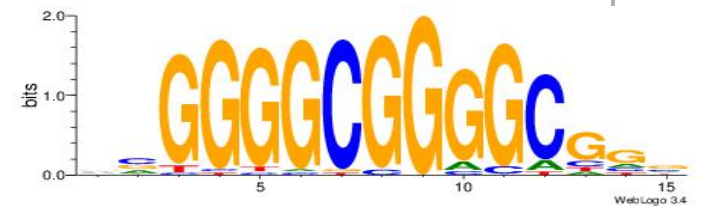
Original motif

Consensus sequence: BCCGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCGGB



Best Matches for Motif ID 14 (Highest to Lowest)

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: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.00481788

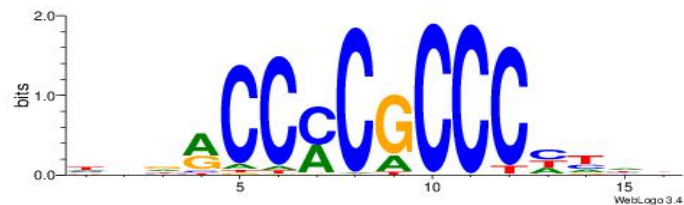
Alignment:

HBDRCCMCGCCCHHHD

BCCGCCCCGCCCCBB-

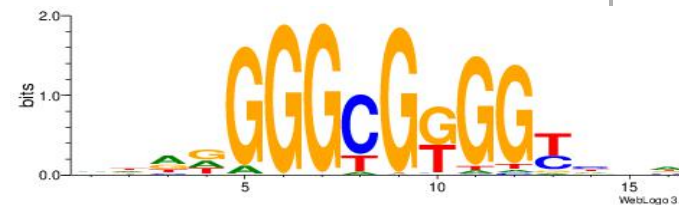
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



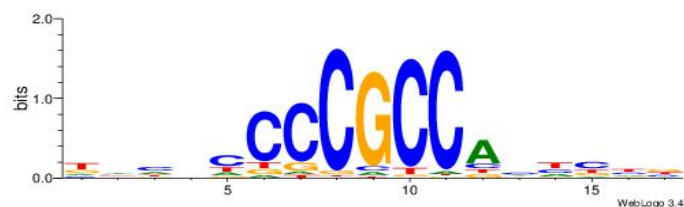
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 15
 Similarity score: 0.0108117

Alignment:

DHHBCCCCGCCAHHBHB
BCCGCCCCGCCCB--

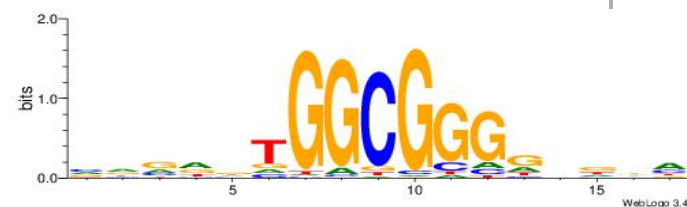
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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:	1
Number of overlap:	15
Similarity score:	0.0154152

Alignment:

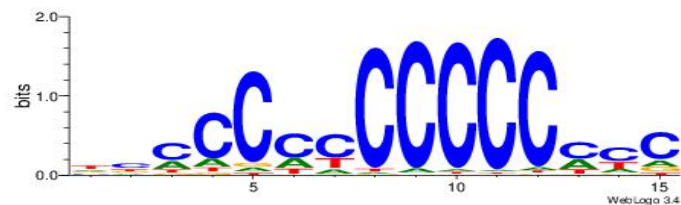
GKRGGGGGGGGGGBD
BBGGGGCGGGGCGGB

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

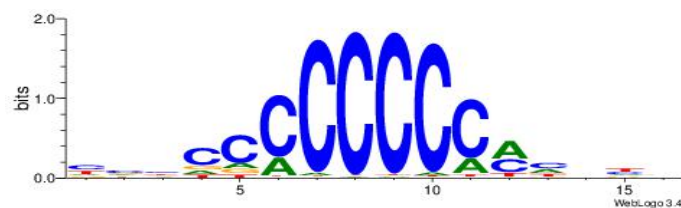


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.018287

Alignment:
 HVBCCCCCCCCMHHHB
 BCCGCCCCGCCCCBB-

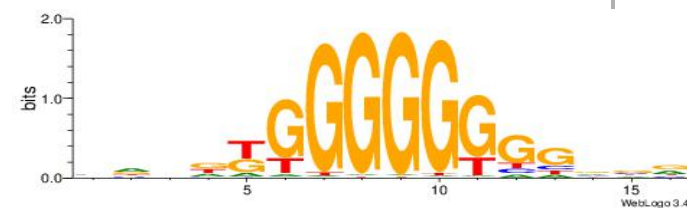
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Motif ID: [UP00002](#)

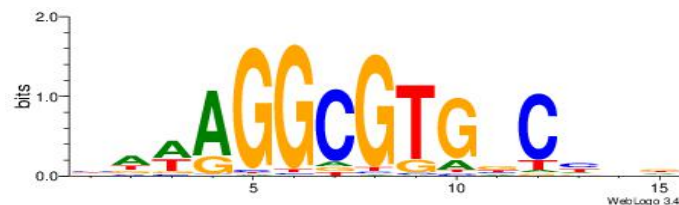
Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0247447

Alignment:

BDWAGGCGTGBCHHD
 BBGGGGCGGGGCGGB

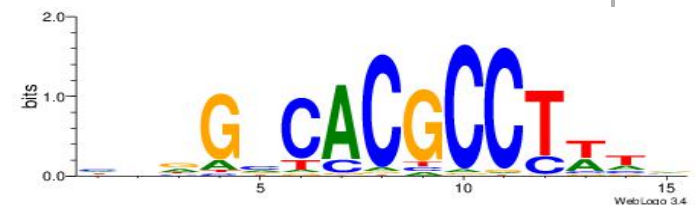
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00007](#)
 Motif name: Egr1_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

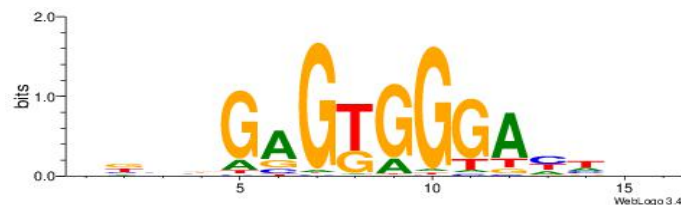
Similarity score: 0.0279869

Alignment:

BHHDTCCTCACTCBDBV
BCCGCCCCGCCCCBB-

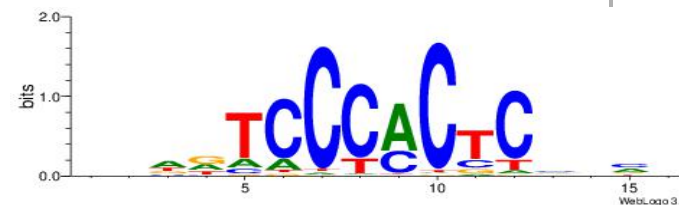
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



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: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.0312526

Alignment:

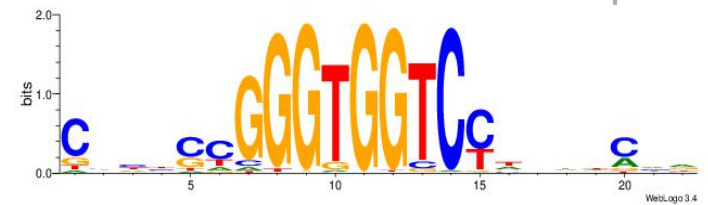
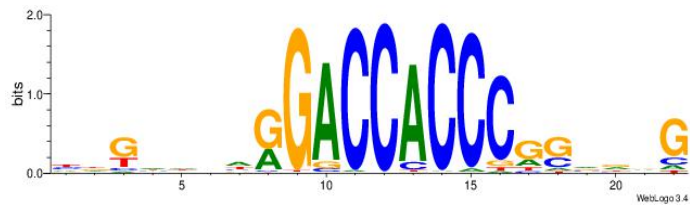
CVHBSCGGGTGGTCMHVHHCDH
---BBGGGGCGGGGCGGB----

Original motif

Consensus sequence: HDGHHBHRGACCACCGSVDVG

Reverse complement motif

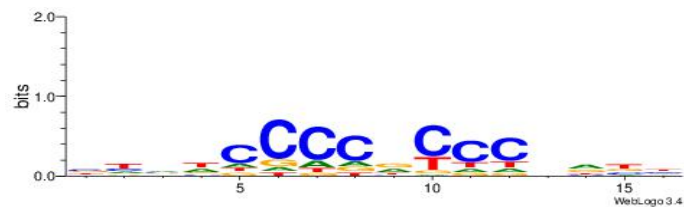
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



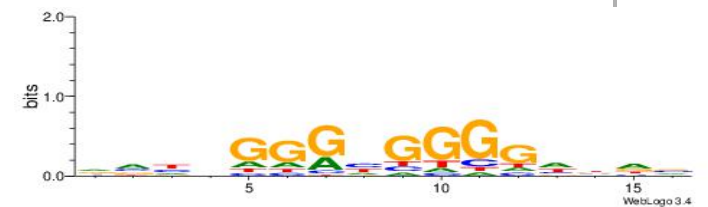
Motif ID: [UP00099](#)
 Motif name: Ascl2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0318321

Alignment:
 BHVDCCCCDCCCBDBH
 BCCGCCCCGCCCCBB-

Original motif
 Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif
 Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary

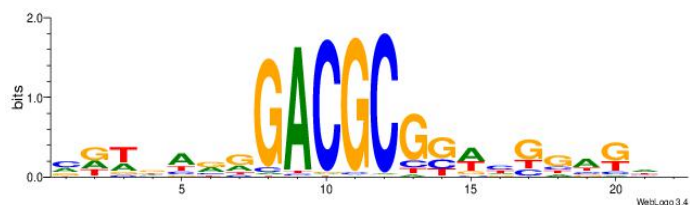
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 15
 Similarity score: 0.0340857

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 ----BCCGCCCCGCCCCBB---

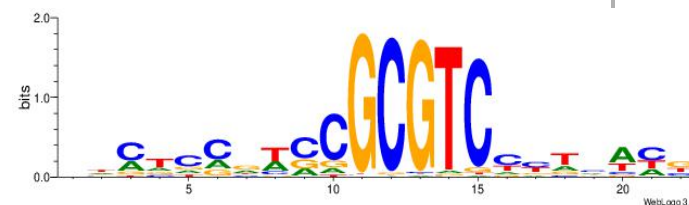
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



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: Forward
 Position number: 4
 Number of overlap: 15
 Similarity score: 0.0345185

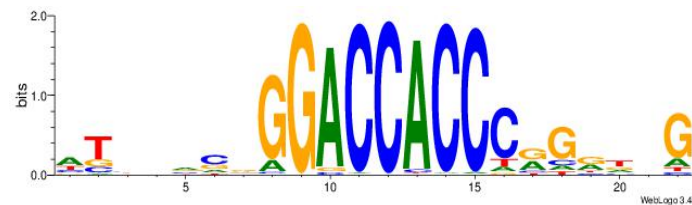
Alignment:

CBDMCMGGGTGGTCCHVBVBAH

---BBGGGGCGGGGCGGB----

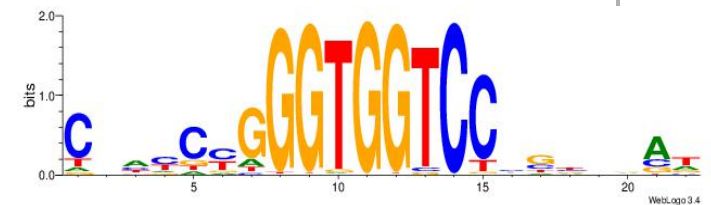
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Dataset #: 2

Motif ID: 15

Motif name: kCAGCCAATmr

Original motif

Consensus sequence: DCAGCCAATVR



Reverse complement motif

Consensus sequence: MBATTGGCTGH



Best Matches for Motif ID 15 (Highest to Lowest)

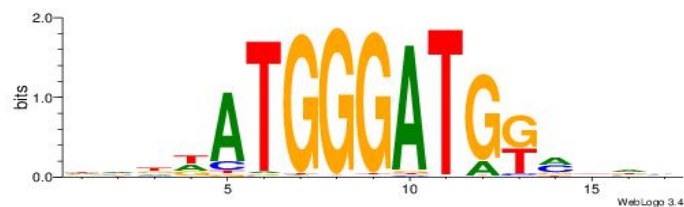
Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.000708728

Alignment:
 BDDYYCATCCCATDDBD
 ----DCAGCCAATVR--

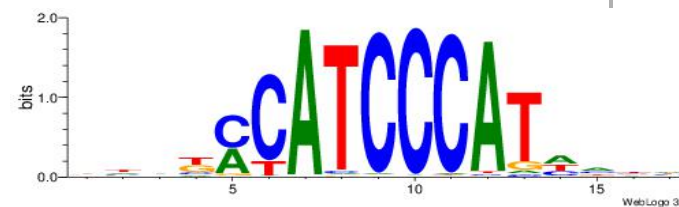
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



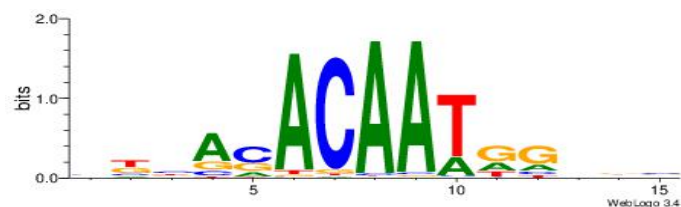
Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00658734

Alignment:

BKBASACAATRGHBB
-DCAGCCAATVR---

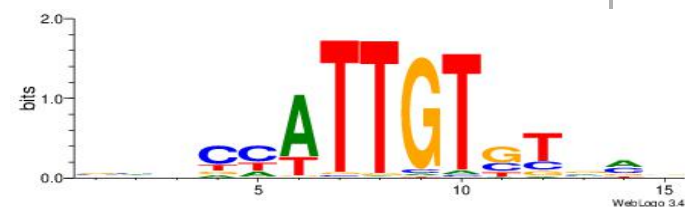
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



Motif ID:	UP00249
Motif name:	Nkx2-5
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:	0.00805715

Alignment:

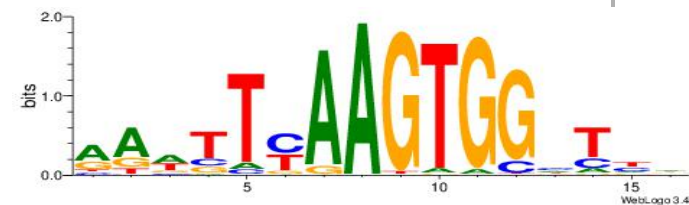
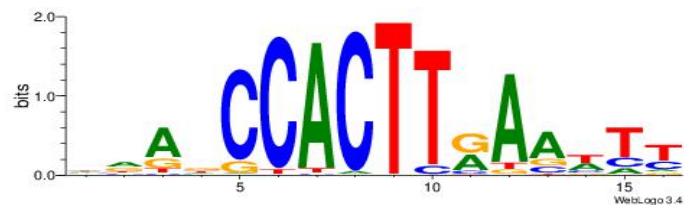
AAWTTMAAGTGGHTDH
-----MBATTGGCTGH

Original motif

Consensus sequence: HDADCCACTTAAWTT

Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH

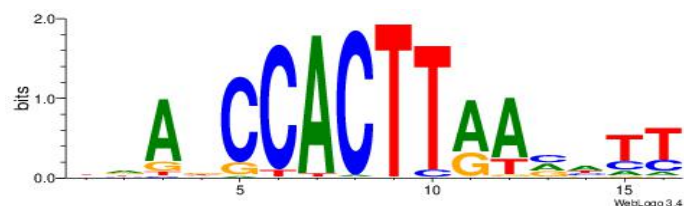


Motif ID: [UP00147](#)
 Motif name: Nkx2-6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0128272

Alignment:
 DDADCCACTTAAVHTT
 DCAGCCAATVR-----

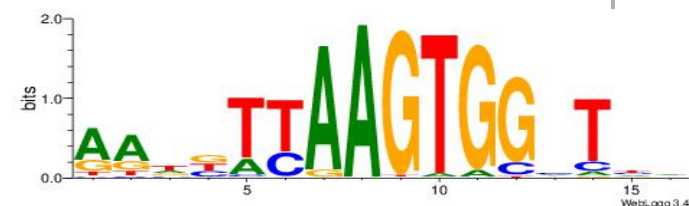
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



Motif ID: [UP00165](#)

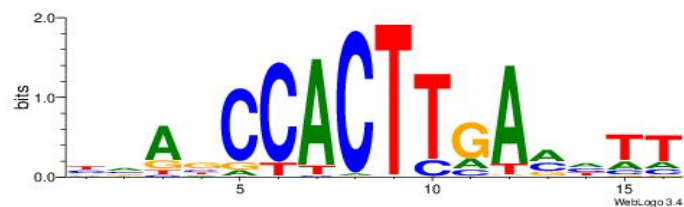
Motif name:	Titf1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0131729

Alignment:

```
AAHYTCAAGTGGBTBV
-----MBATTGGCTGH
```

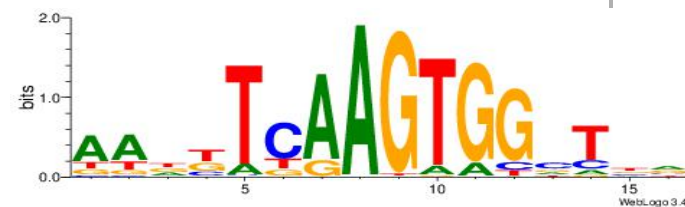
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



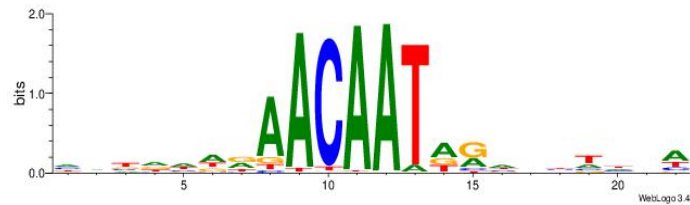
Motif ID:	UP00034
Motif name:	Sox7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0131873

Alignment:

HHBDHDDAACAATDRHHHHHBW
-----DCAGCCAATVR-----

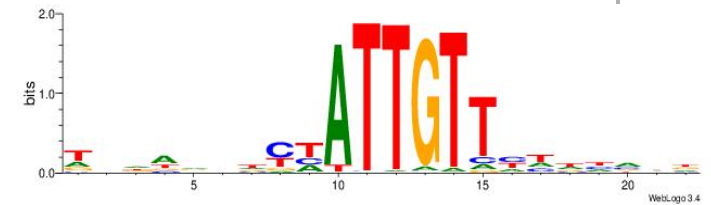
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTTDDHDVHH



Motif ID:	UP00258
Motif name:	Tgif2
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:	0.0132199

Alignment:

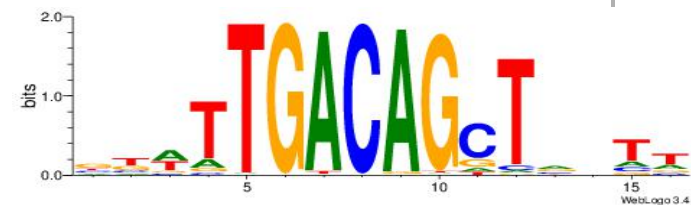
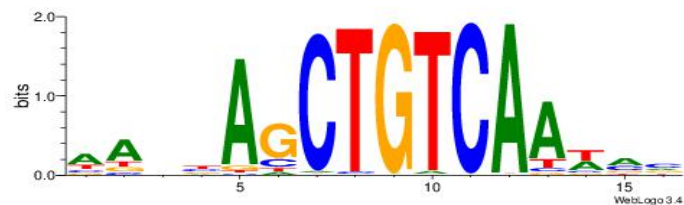
AABBAGCTGTCAAWVV
-----DCAGCCAATVR

Original motif

Consensus sequence: AABBAGCTGTCAAWVV

Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT

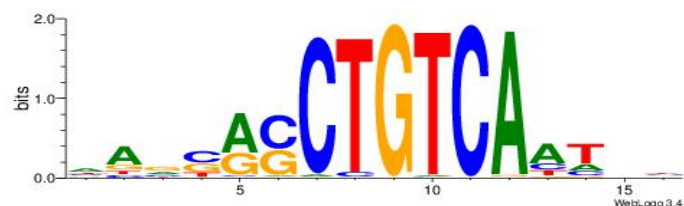


Motif ID: [UP00205](#)
 Motif name: Pknx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0138143

Alignment:
 VHATTGACAGSKSVTH
 MBATTGGCTGH-----

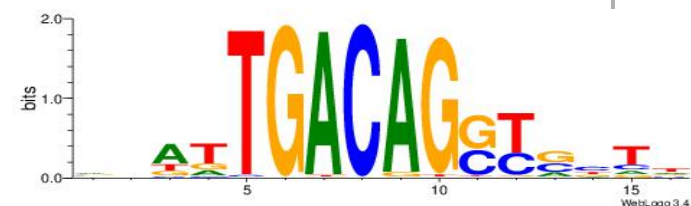
Original motif

Consensus sequence: HAVSRCTGTCAATHB



Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH



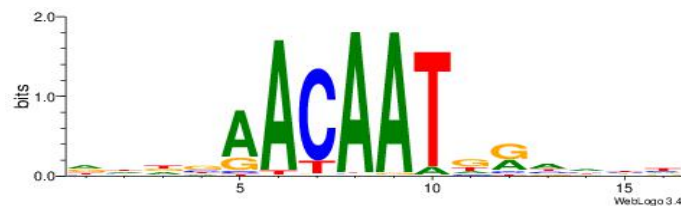
Motif ID: [UP00023](#)

Motif name: Sox30_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: 0.0141895

Alignment:
 HHHMHATTGTTBDHD
 ----MBATTGGCTGH-

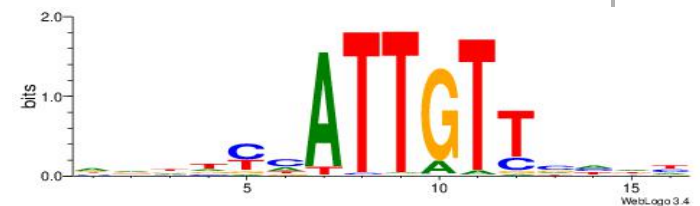
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHMHATTGTTBDHD



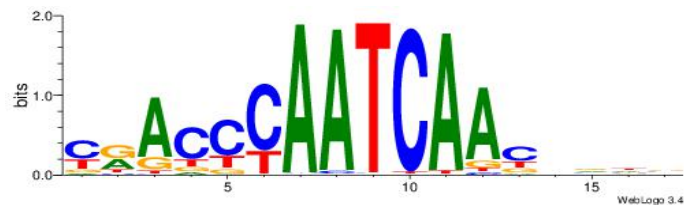
Motif ID: [UP00227](#)
 Motif name: Duxl
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0154208

Alignment:

YRACCCAATCAACVVHV
DCAGCCAATVR-----

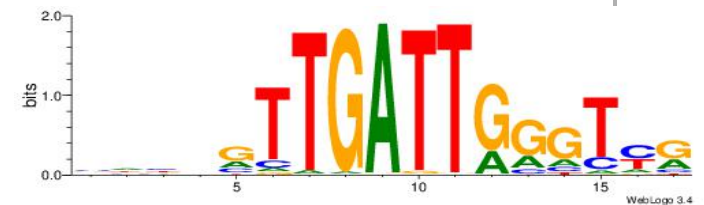
Original motif

Consensus sequence: YRACCCAATCAACVVHV



Reverse complement motif

Consensus sequence: VHVVGTTGATTGGGTMK



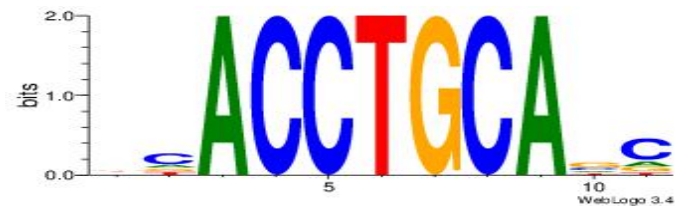
Dataset #: 2

Motif ID: 16

Motif name: kcACCTGCAGc

Original motif

Consensus sequence: BCACCTGCABC



Reverse complement motif

Consensus sequence: GTGCAGGTGB



Best Matches for Motif ID 16 (Highest to Lowest)

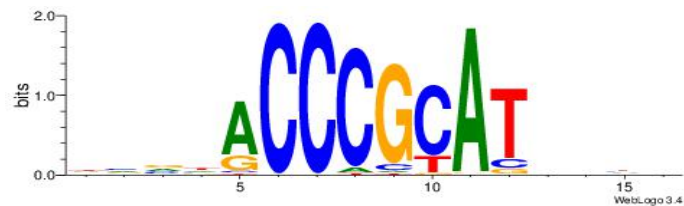
Motif ID:	UP00070
Motif name:	Gcm1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0

Alignment:
DHDVATGCGGGTHVVH
---GBTGCAGGTGB--

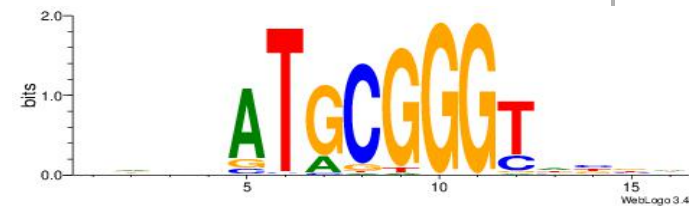
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



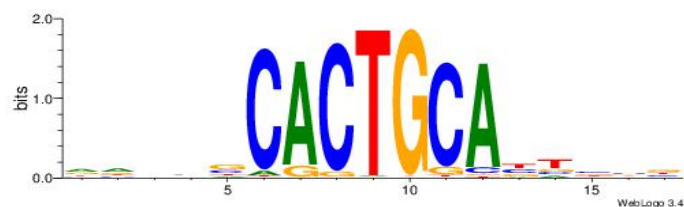
Motif ID: [UP00031](#)
Motif name: Zbtb3_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.000503863

Alignment:

BBBAVTGCAGTGBBVDD
---GBTGCAGGTGB---

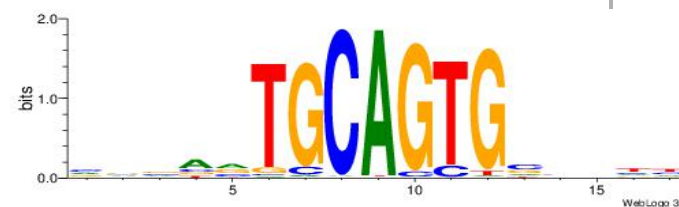
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



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:	6
Number of overlap:	11
Similarity score:	0.000557448

Alignment:

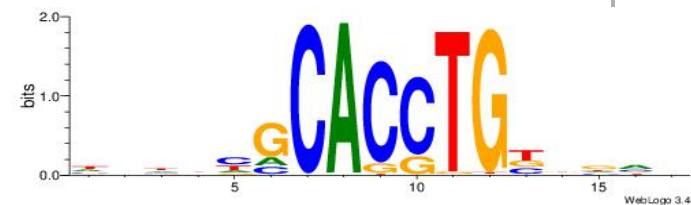
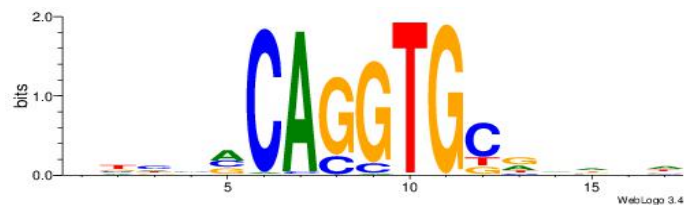
DHDBHGCACCTGBDDVB
-----BCACCTGCABC-

Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD

Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB

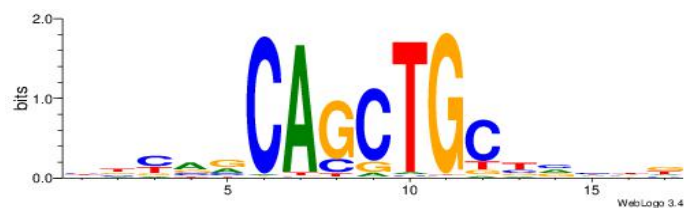


Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00842747

Alignment:
 BBYVVCAGCTGCBVHHD
 ----BCACCTGCABC--

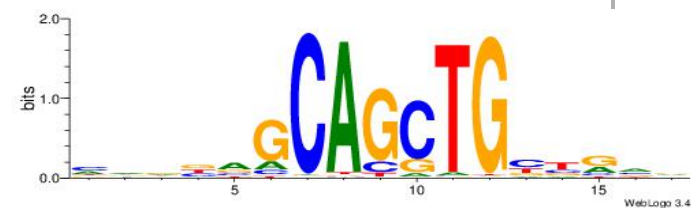
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



Motif ID: [UP00420](#)

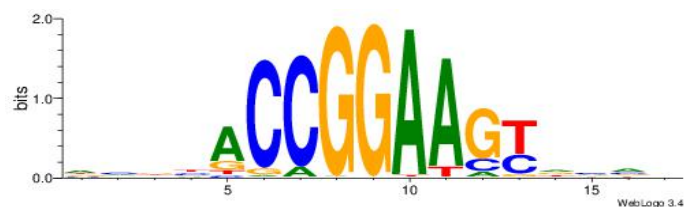
Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0111732

Alignment:

DVBBACCGGAAGYDVVV
 --BCACCTGCABC-----

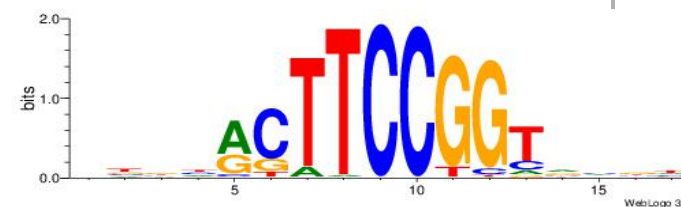
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD

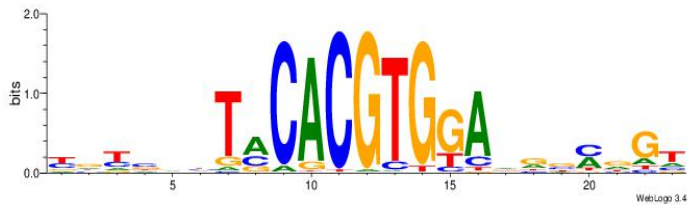


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 11

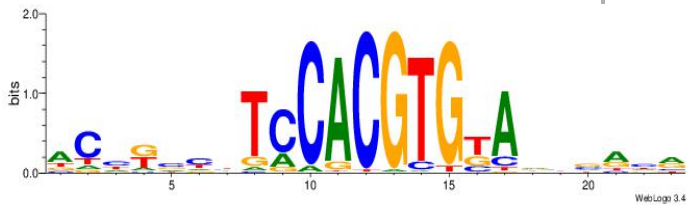
Similarity score: 0.0122671

Alignment:
ACHRBHDTCCACGTGYAHBMMH
-----BCACCTGCABC-----

Original motif
Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif
Consensus sequence: ACHRBHDTCCACGTGYAHBMMH

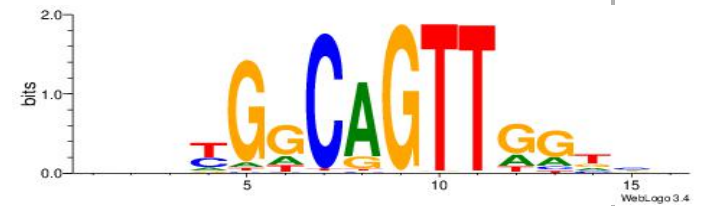
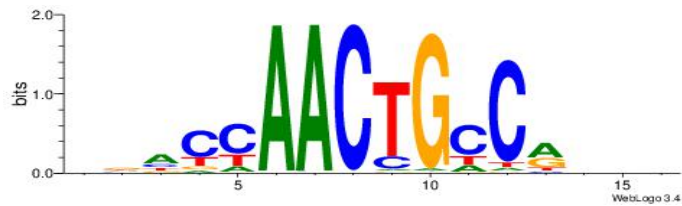


Motif ID: [UP00092](#)
Motif name: Myb_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.015733

Alignment:
BDACCAACTGCCRBH
---BCACCTGCABC--

Original motif
Consensus sequence: BDACCAACTGCCRBH

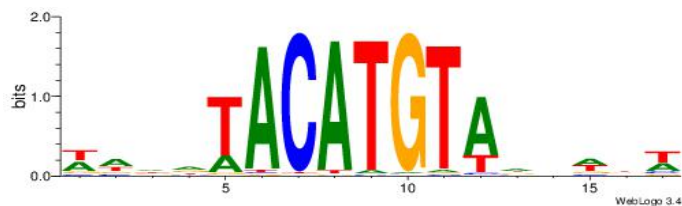
Reverse complement motif
Consensus sequence: DBVKGGCAGTTGGTHB



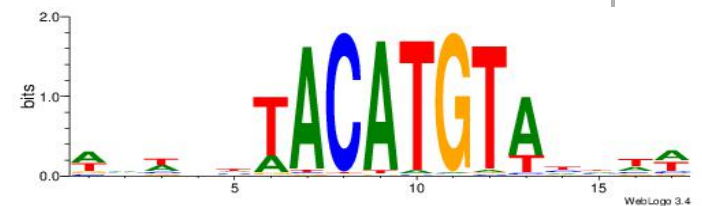
Motif ID: [UP00236](#)
 Motif name: Irx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0163141

Alignment:
 WVWDDTACATGTADDDW
 ---GBTGCAGGTGB---

Original motif
 Consensus sequence: WDDDTACATGTADDWBW



Reverse complement motif
 Consensus sequence: WVWDDTACATGTADDDW



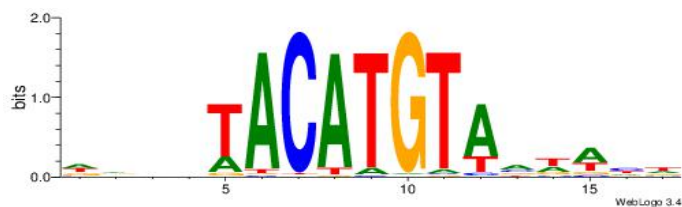
Motif ID: [UP00223](#)
 Motif name: Irx3_0920.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0165255

Alignment:

DDWWTACATGTADDDD
 ----BCACCTGCABC--

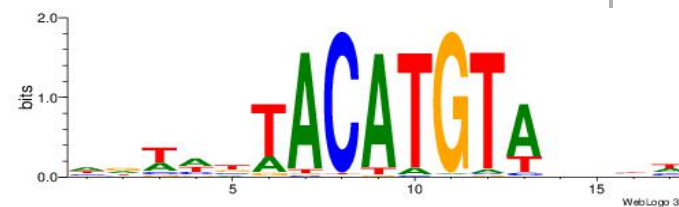
Original motif

Consensus sequence: DDDDTACATGTAVVWHH



Reverse complement motif

Consensus sequence: DDWWTACATGTADDDD



Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1

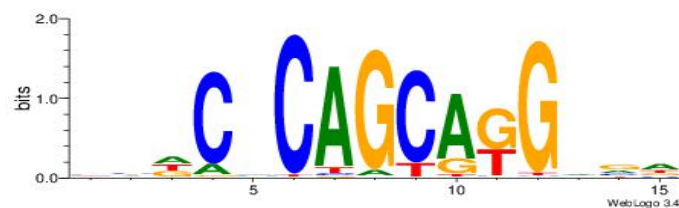
Number of overlap: 11
Similarity score: 0.0169178

Alignment:

DVBCYTGCTGBGDDD
BCACCTGCABC-----

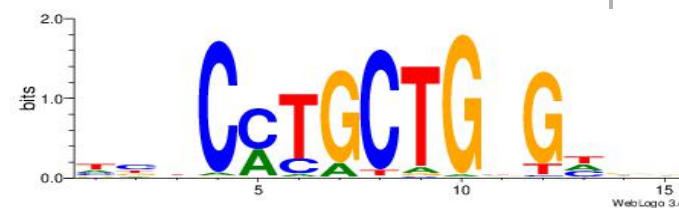
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

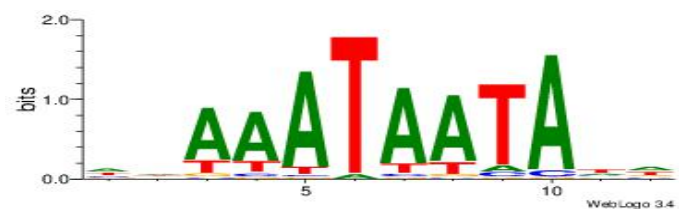
Consensus sequence: DVBCYTGCTGBGDDD



Dataset #: 2 **Motif ID: 17** **Motif name: wwAAATAATAtw**

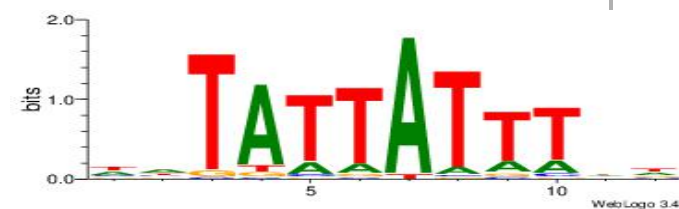
Original motif

Consensus sequence: HDAAATAATADD



Reverse complement motif

Consensus sequence: DDTATTATTTDH



Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID: [UP00244](#)
Motif name: Tlx2
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:	0.00576686

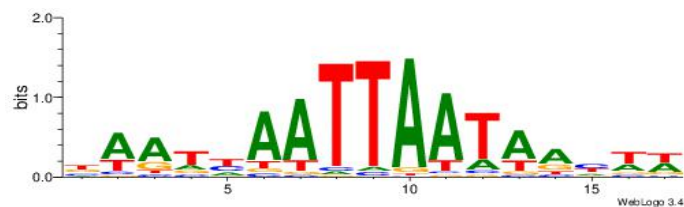
Alignment:

```

WWDTTATTAATTHATTV
--DDTATTATTTDH---
```

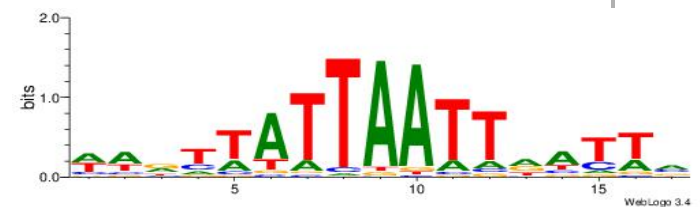
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



Motif ID:	UP00121
Motif name:	Hoxd10
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:	12
Similarity score:	0.00673636

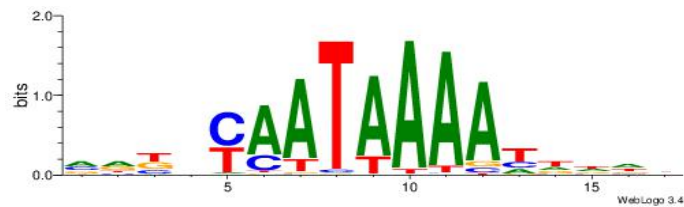
Alignment:

HDDDATTTTATTKVRDB

---DDTATTATTTDH--

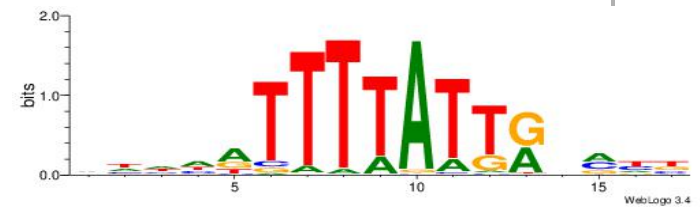
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID:	UP00180
Motif name:	Hoxd13
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:	0.00685179

Alignment:

HDHHTTTTATTKKHDD

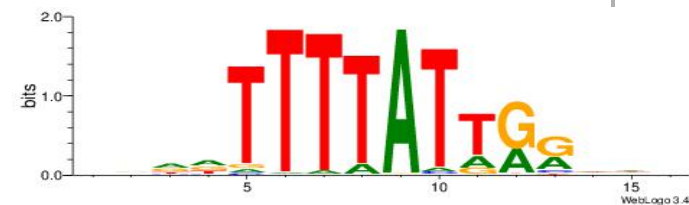
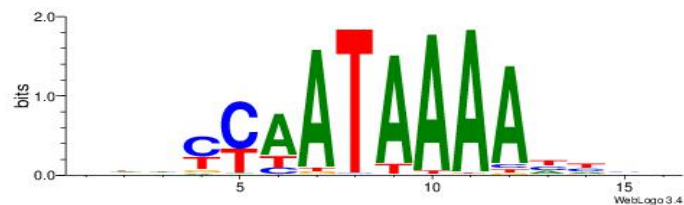
--DDTATTATTTDH--

Original motif

Consensus sequence: HDHYAATAAAAHHHH

Reverse complement motif

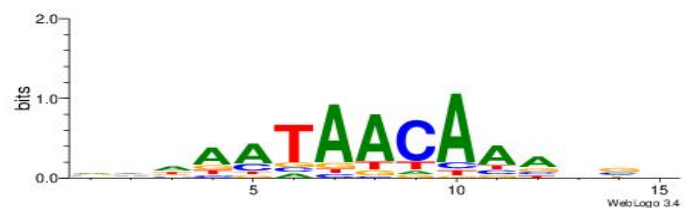
Consensus sequence: HDHHTTTTATTKKHDD



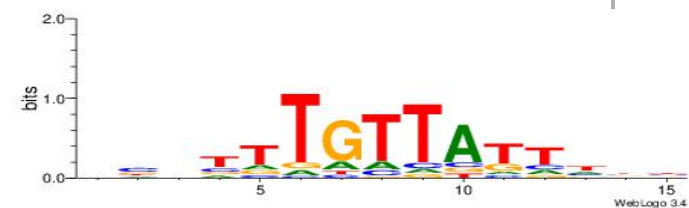
Motif ID: [UP00073](#)
 Motif name: Foxa2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0108327

Alignment:
 VVDAATAACAAAVVB
 HDAAATAATADD---

Original motif
 Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif
 Consensus sequence: BVVTTTGTATTDBB



Motif ID: [UP00134](#)

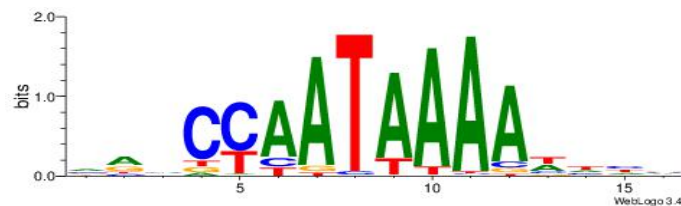
Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0121723

Alignment:

VDHWTTTTATTGGDKB
 --DDTATTATTTDH--

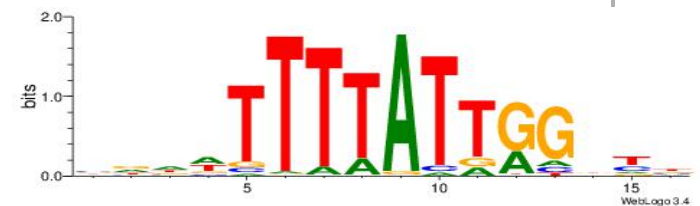
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB

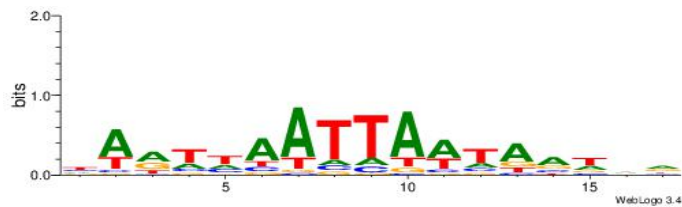


Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12

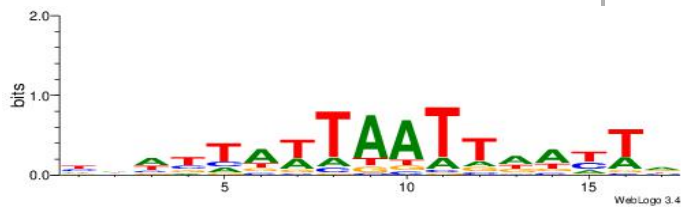
Similarity score: 0.0133808

Alignment:
DHDBTAWTAATTHAKTH
--DDTATTATTTDH---

Original motif
Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif
Consensus sequence: DHDBTAWTAATTHAKTH

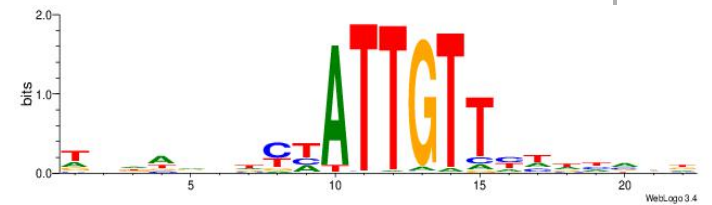
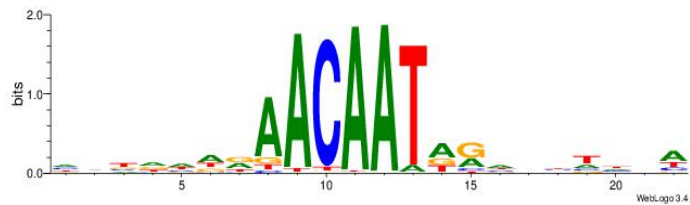


Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0144702

Alignment:
HHBDHDDAACAATDRHHHHHBW
----HDAAATAATADD-----

Original motif
Consensus sequence: HHBDHDDAACAATDRHHHHHBW

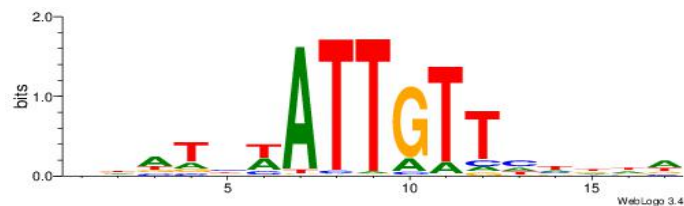
Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTTHDHVDVHH



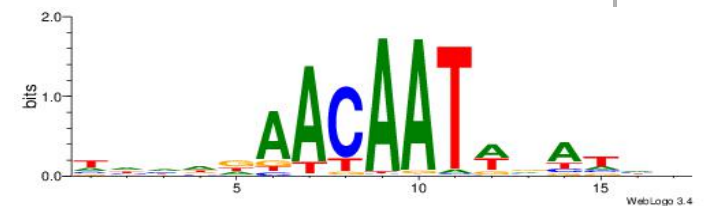
Motif ID: [UP00051](#)
 Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0145614

Alignment:
 DDATBWATTGTTHHDDD
 ---DDTATTATTTDH--

Original motif
 Consensus sequence: DDATBWATTGTTHHDDD



Reverse complement motif
 Consensus sequence: DDDHDAACAATWBATDD



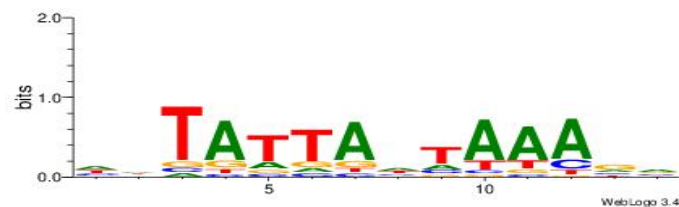
Motif ID: [UP00024](#)
 Motif name: Glis2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0148858

Alignment:

BVTTTAHTAATADH
 --HDAAATAATADD

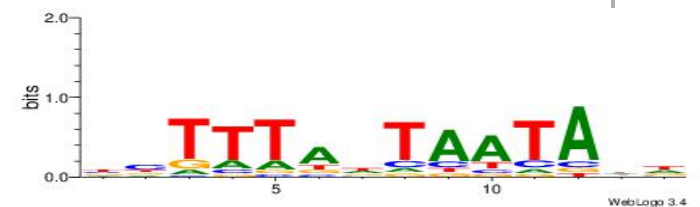
Original motif

Consensus sequence: HDTATTAHTAAVV



Reverse complement motif

Consensus sequence: BVTTTAHTAATADH



Motif ID: [UP00096](#)
 Motif name: Sox13_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3

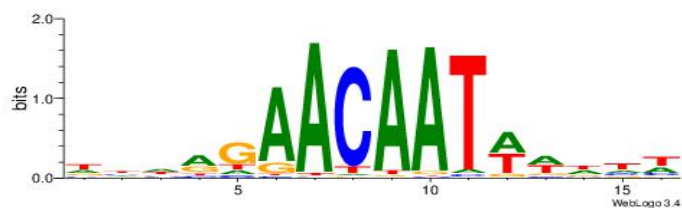
Number of overlap: 12
Similarity score: 0.014968

Alignment:

DHDRGAACAATWWDHW
--HDAAATAATADD--

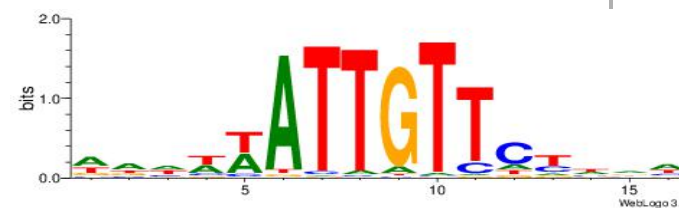
Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

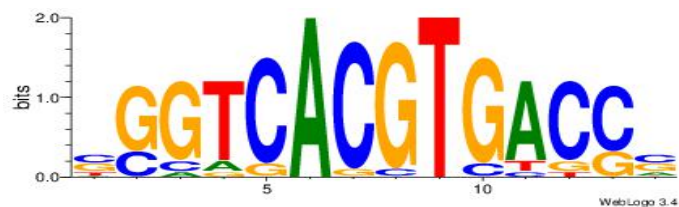
Consensus sequence: WHDWWATTGTTCKDHD



Dataset #: 2 Motif ID: 18 Motif name: sSGTCACGTGACSS

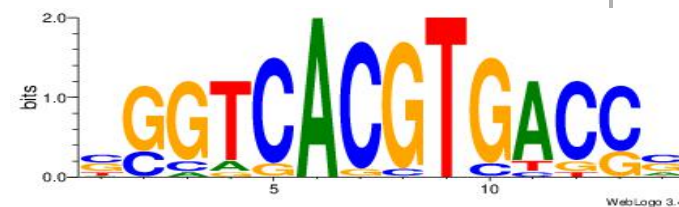
Original motif

Consensus sequence: SGGTCACGTGACCS



Reverse complement motif

Consensus sequence: SGGTCACGTGACCS



Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus

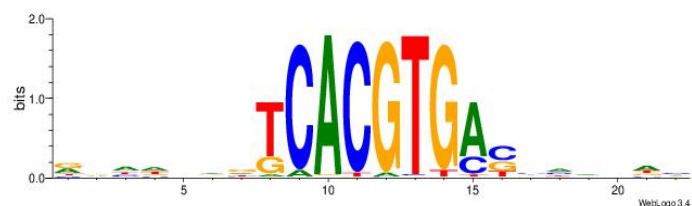
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0

Alignment:

```
RDHDBVDTACAGTGASBHVHDH
----SGGTCACGTGACCS----
```

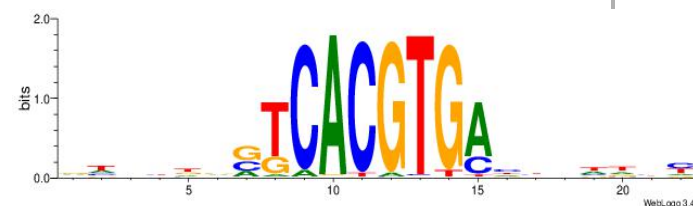
Original motif

Consensus sequence: RDHDBVDTACAGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



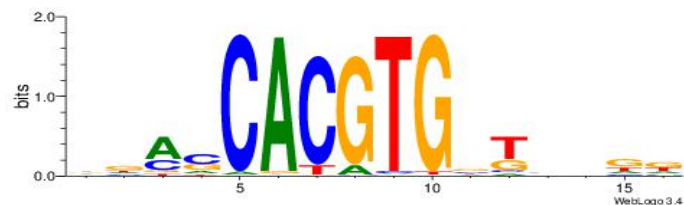
Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0226905

Alignment:

DDASCACGTGBTBVDD
--SGGTCACGTGACCS

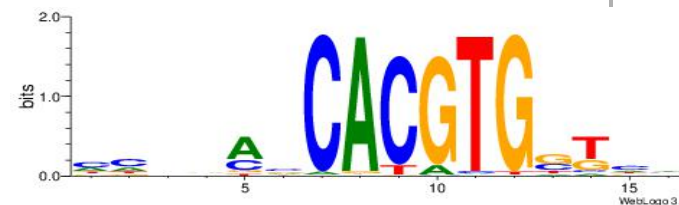
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID:	UP00060
Motif name:	Max_secondary
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:	14
Similarity score:	0.0240371

Alignment:

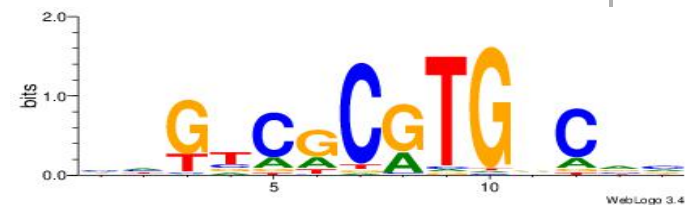
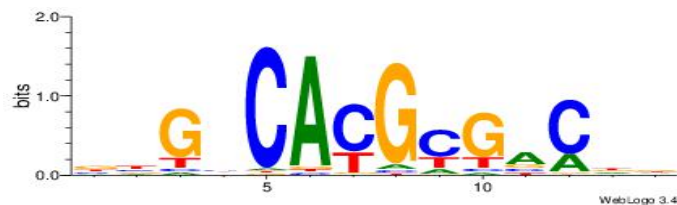
BBGHCACGCGACDD
SGGTCACGTGACCS

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB

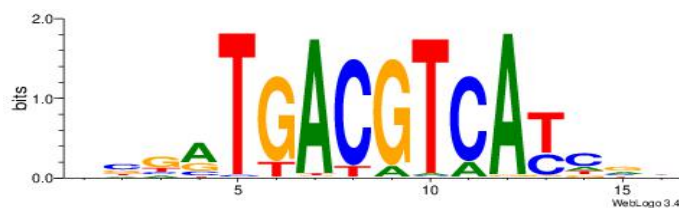


Motif ID: [UP00103](#)
 Motif name: Jundm2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0253986

Alignment:
 BBGATGACGTCAYCVH
 -SGGTCACGTGACCS-

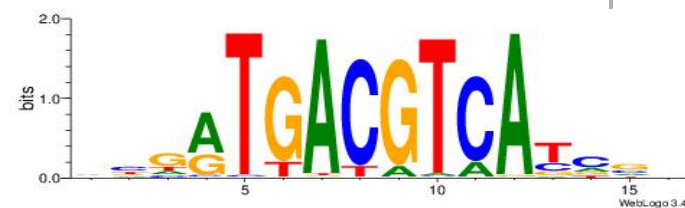
Original motif

Consensus sequence: BBGATGACGTCAYCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCATCBB



Motif ID: [UP00020](#)

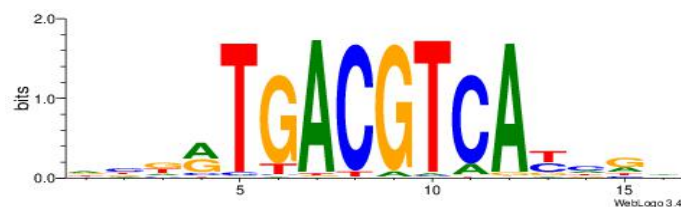
Motif name: Atf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0259163

Alignment:

DBDRTGACGTCAYHRD
 -SGGTCACGTGACCS-

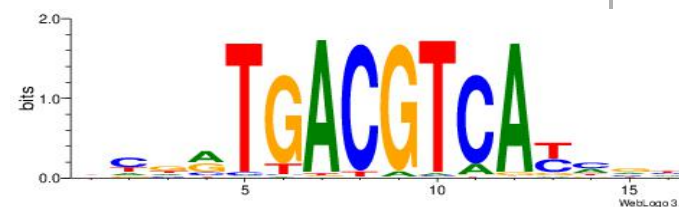
Original motif

Consensus sequence: DBDRTGACGTCAYHRD



Reverse complement motif

Consensus sequence: DMDMTGACGTCAKHBD

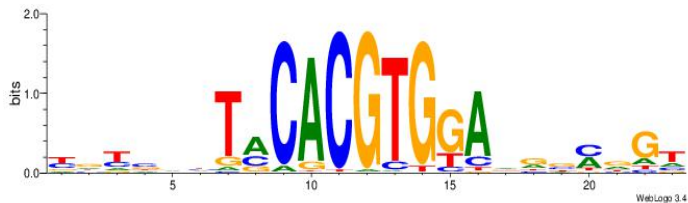


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 14

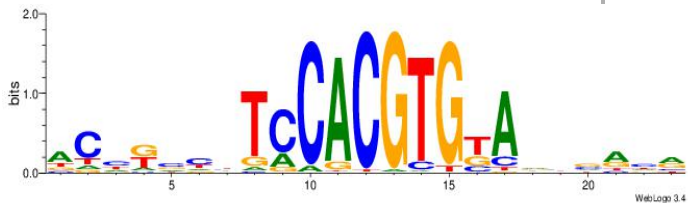
Similarity score: 0.0403911

Alignment:
ACHRBHDTCCACGTGYAHBMMH
-----SGGTCACGTGACCS-----

Original motif
Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif
Consensus sequence: ACHRBHDTCCACGTGYAHBMMH

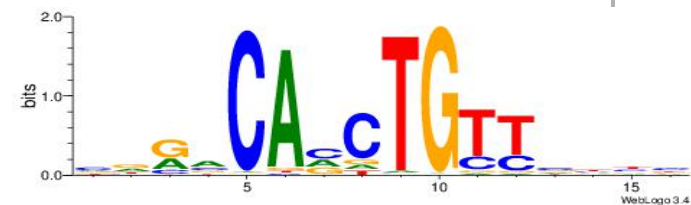
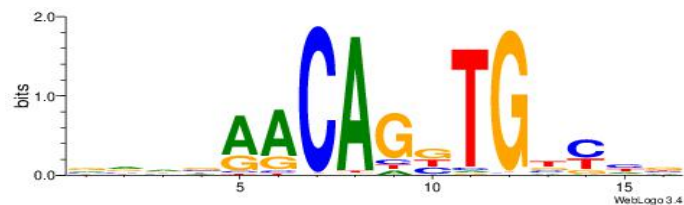


Motif ID: [UP00036](#)
Motif name: Myf6_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0440464

Alignment:
VVDBAACAGBTGBYHB
--SGGTCACGTGACCS

Original motif
Consensus sequence: VVDBAACAGBTGBYHB

Reverse complement motif
Consensus sequence: BDKVCABCTGTTBDBV



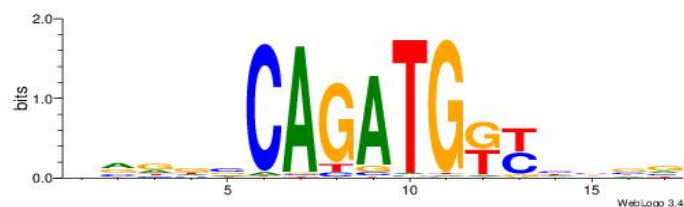
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0471124

Alignment:

VBBDMYCATCTGVHBBH
 --SGGTCACGTGACCS--

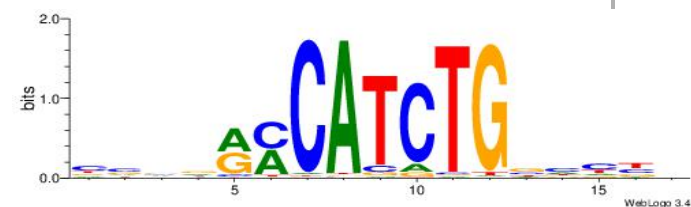
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



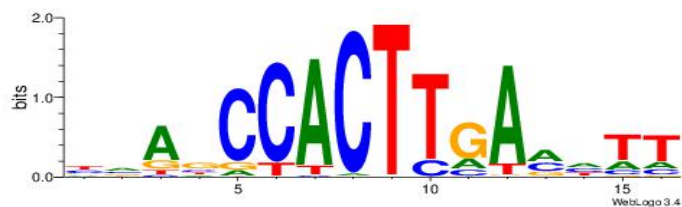
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0471926

Alignment:

BVABCCACTTGAMHTT
 -SGGTCACGTGACCS-

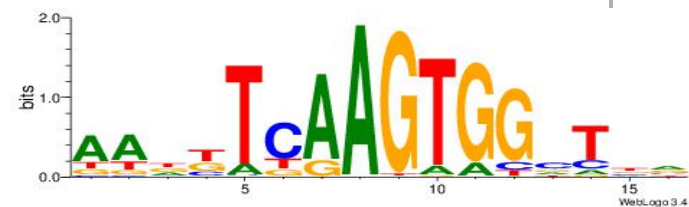
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



Motif ID: [UP00046](#)
 Motif name: Tcf2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2

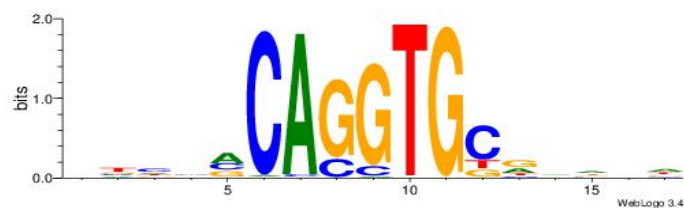
Number of overlap: 14
Similarity score: 0.0506329

Alignment:

DHDBHGCACCTGBDDVB
--SGGTCACGTGACCS--

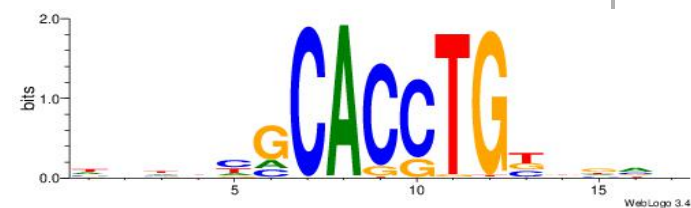
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Original motif

Consensus sequence: HVTACWGATABD



Reverse complement motif

Consensus sequence: DBTACWGTA VH



Best Matches for Motif ID 19 (Highest to Lowest)

Motif ID: [UP00052](#)
Motif name: Osr2_primary
Species: Mus musculus

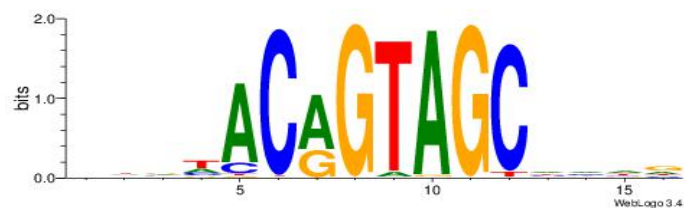
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

```
HHHHGCTACKGTHVHH
----DBTACWGTAVH-
```

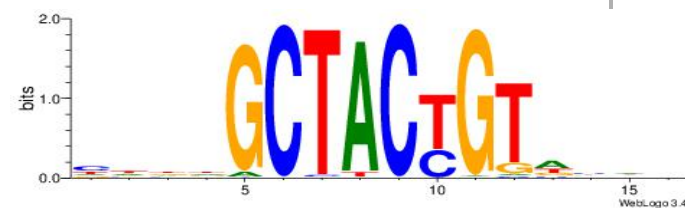
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



Motif ID:	UP00027
Motif name:	Osr1_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:	0.00480574

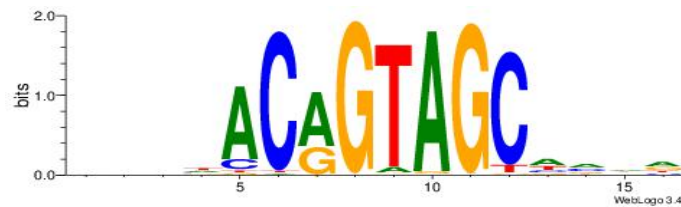
Alignment:

DHBHGCTACKGTHDHH

----DBTACWGTAHVH--

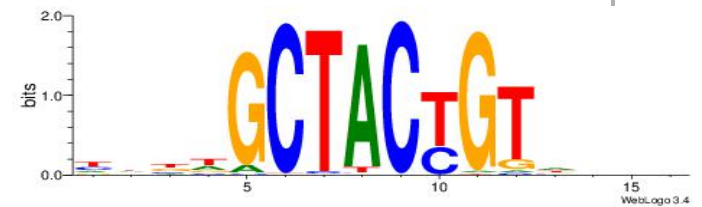
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



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:

4

Number of overlap:

11

Similarity score:

0.0165381

Alignment:

BBBAVTGCAGTGBBVDD

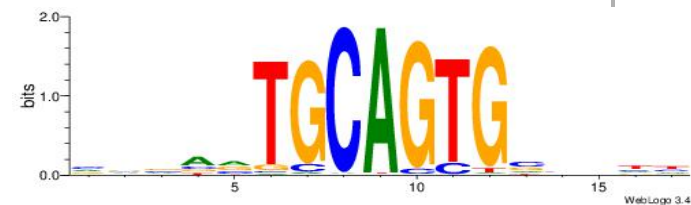
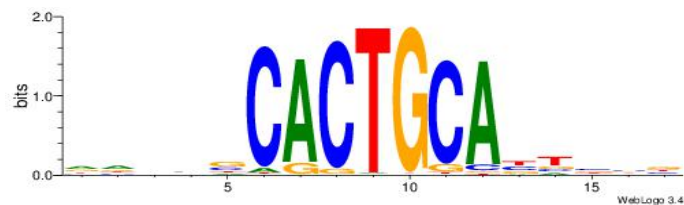
---HVTACWGATABD---

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

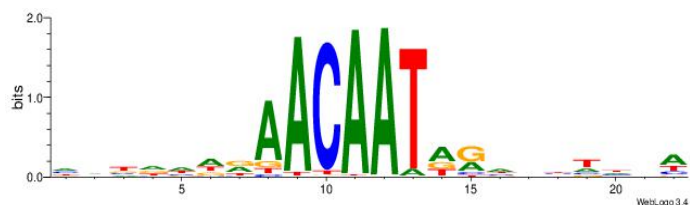


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0248017

Alignment:
 HHBDHDDAACAATDRHHHHHBW
 -----DBTACWGTAVH-----

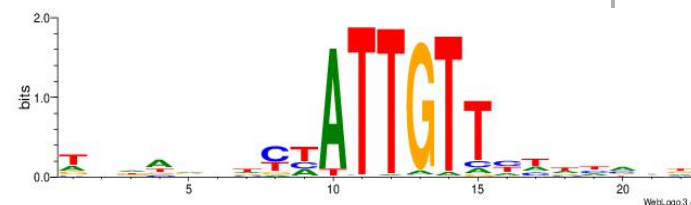
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH



Motif ID: [UP00023](#)

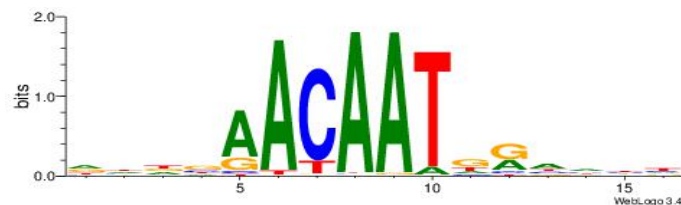
Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0294174

Alignment:

HHHMHATTGTTBDHD
 ---HVTACWG TABD--

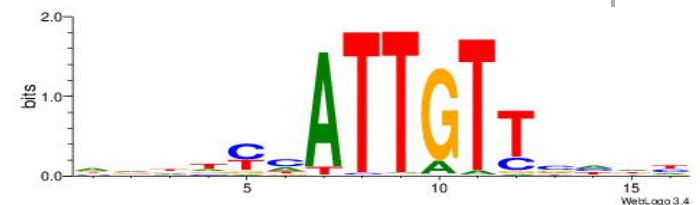
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHMHATTGTTBDHD



Motif ID: [UP00075](#)
 Motif name: Sox15_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: 11

Similarity score: 0.0301544

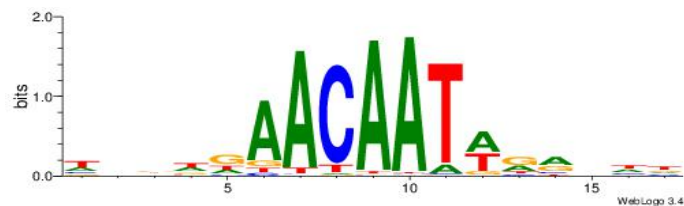
Alignment:

DHVKMWATTGTTDHDH

---HVTACWGATABD---

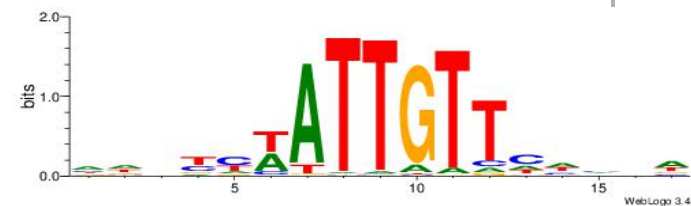
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



Motif ID: [UP00016](#)

Motif name: Sry_secondary

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: 0.0310991

Alignment:

VHVHDATTGTTMHDDDH

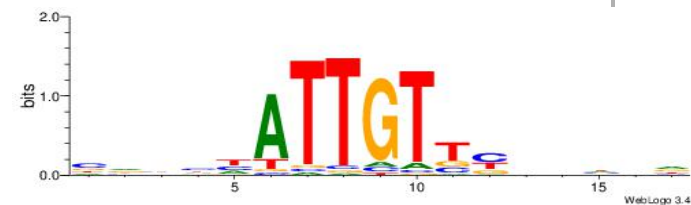
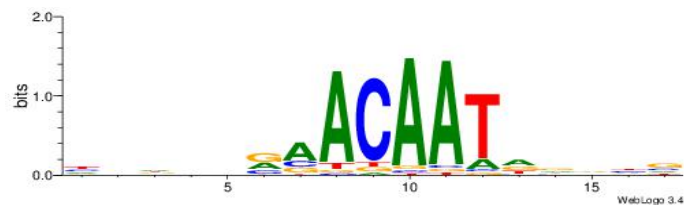
--DBTACWGTAVH----

Original motif

Consensus sequence: HHDHRAACAATDDVHV

Reverse complement motif

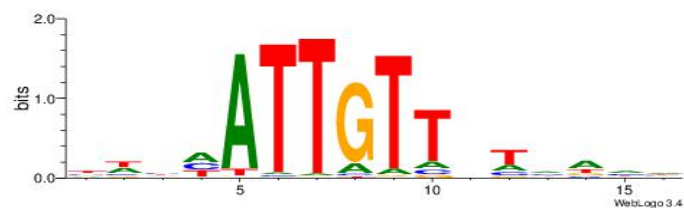
Consensus sequence: VHVHDATTGTTMHDDDH



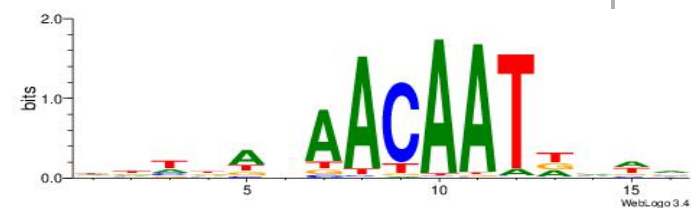
Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.031364

Alignment:
 BWBHATTGTTBTHDHH
 -DBTACWGTAVH----

Original motif
 Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif
 Consensus sequence: HDDHABAACAATHBWV



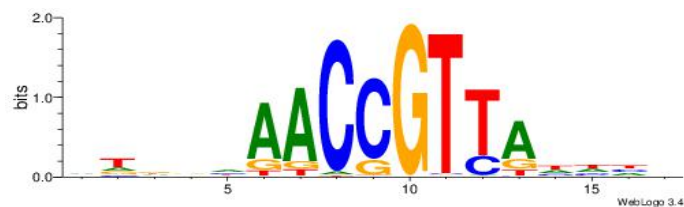
Motif ID: [UP00092](#)
 Motif name: Myb_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0314236

Alignment:

HDDDHAACCGTTAHHHD
 ---DBTACWGTAVH---

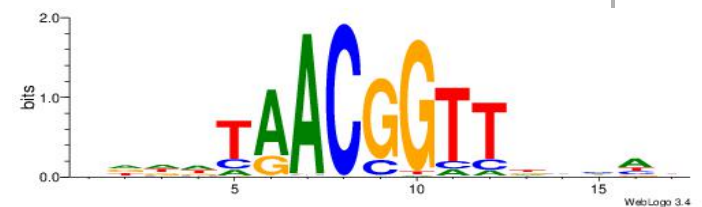
Original motif

Consensus sequence: HDDDHAACCGTTAHHHD



Reverse complement motif

Consensus sequence: DHHHTAACGGTTHHHDH



Motif ID: [UP00071](#)
 Motif name: Sox21_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5

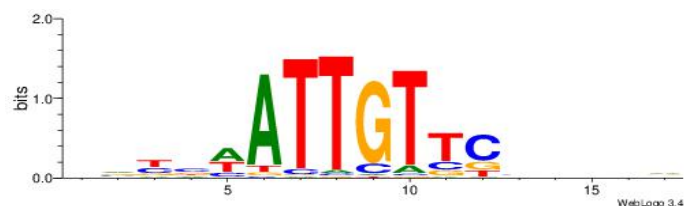
Number of overlap: 11
Similarity score: 0.0319794

Alignment:

VVYBWATTGTTTCVBHDV
--HVTACWGTABD----

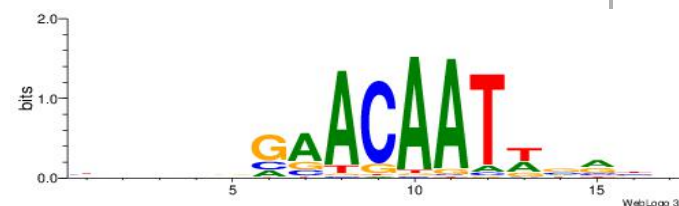
Original motif

Consensus sequence: VVYBWATTGTTTCVBHDV



Reverse complement motif

Consensus sequence: BDDBVGAACAATWBMbV



Dataset #: 2 Motif ID: 20 Motif name: dhACATTCTkh

Original motif

Consensus sequence: DHACATTCTGH



Reverse complement motif

Consensus sequence: HCAGAATGTHD



Best Matches for Motif ID 20 (Highest to Lowest)

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

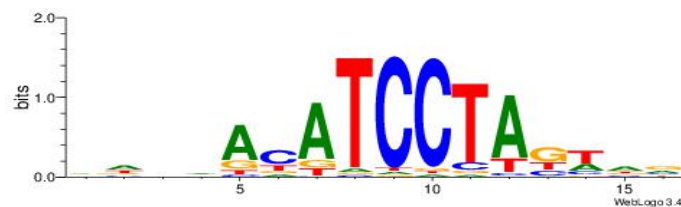
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.00581553

Alignment:

```
VDWYTAGGATGTHVDH
---HCAGAATGTHD--
```

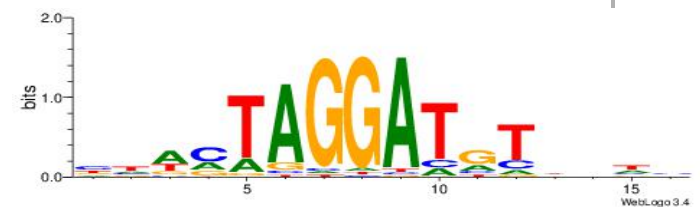
Original motif

Consensus sequence: DDBHACATCCTAKWDV



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH



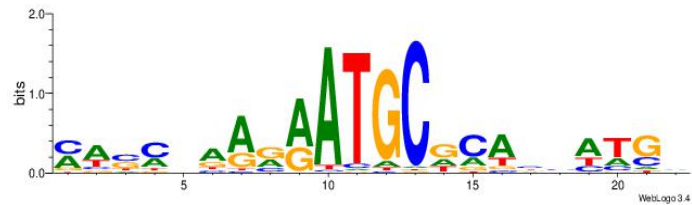
Motif ID:	UP00528
Motif name:	Foxm1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.00582895

Alignment:

DCATDBTGHGCATKMTTBRSWR
-----DHACATTCTGH-----

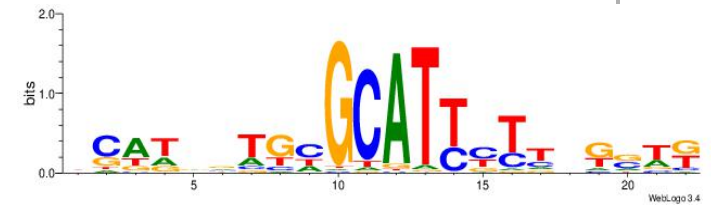
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID:	UP00023
Motif name:	Sox30_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:	0.00613057

Alignment:

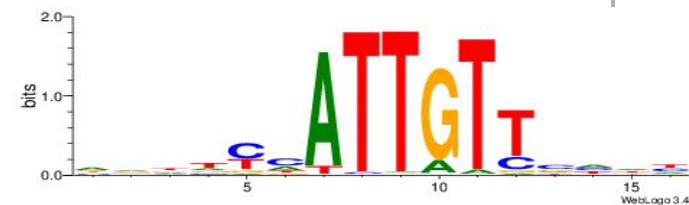
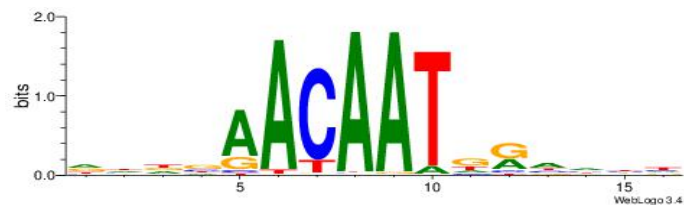
HHHHMHATTGTTBDHD
--DHACATTCTGH---

Original motif

Consensus sequence: DHDBAACAATDRHHHH

Reverse complement motif

Consensus sequence: HHHMHATTGTTBDHD



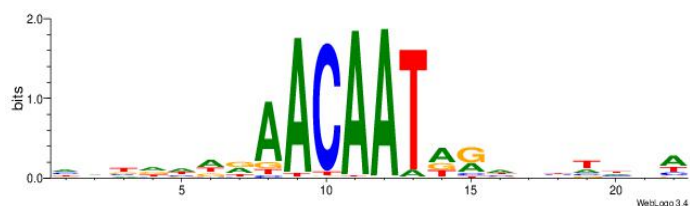
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0119275

Alignment:

WBHHHHHMDATTGTTHDHDVHH
 -----DHACATTCTGH-----

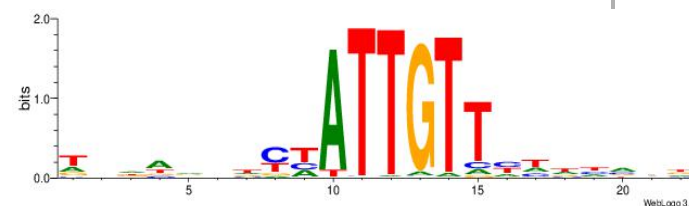
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00030](#)

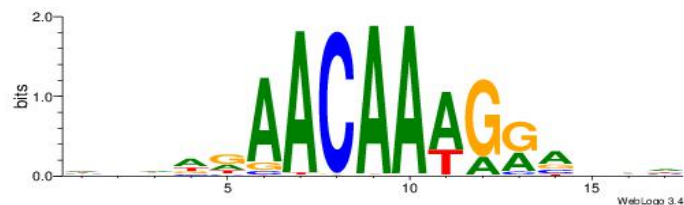
Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0122803

Alignment:

HHBTMCTTTGTTMDDVH
 --DHACATTCTGH----

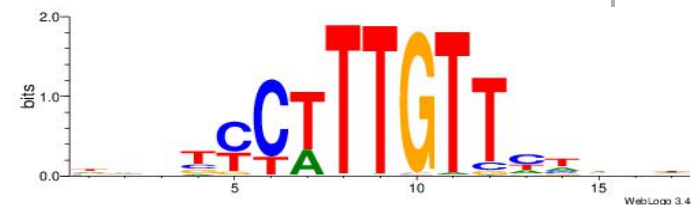
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00250](#)
 Motif name: Irx5
 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: 0.0132772

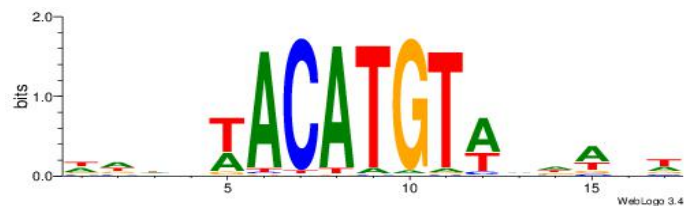
Alignment:

WVTDHWACATGTWHDDD

----DHACATTCTGH--

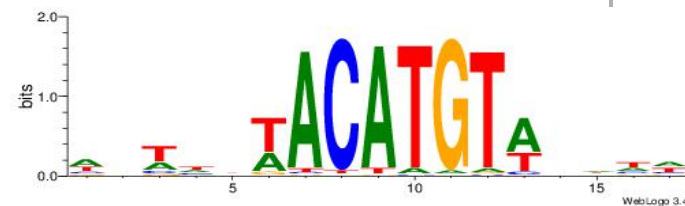
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDHWACATGTWHDDD



Motif ID: [UP00057](#)
Motif name: Zic2_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: 11
Similarity score: 0.0141401

Alignment:

HHDCVCAGCAKGVVD

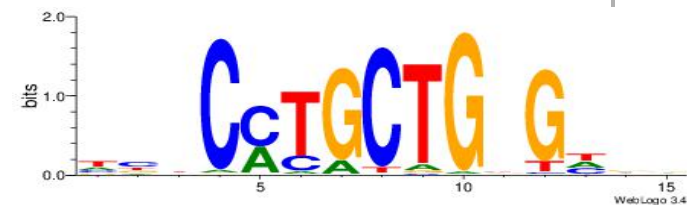
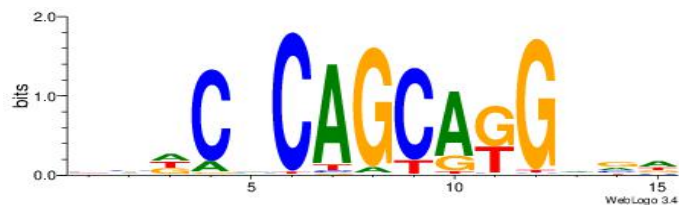
----HCAGAATGTHD

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

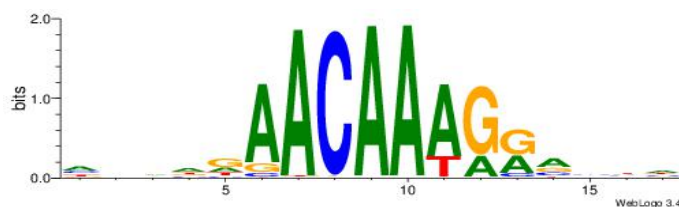
Consensus sequence: DVBCYTGCTGBGDDD



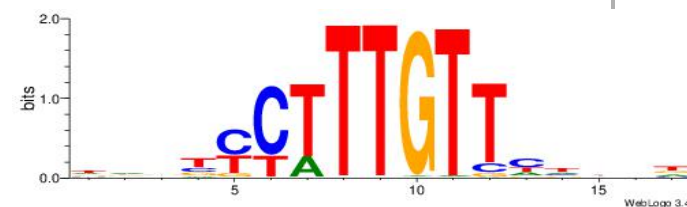
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0143902

Alignment:
 HHBBMCTTTGTTHDDBH
 --DHACATTCTGH----

Original motif
 Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif
 Consensus sequence: HHBBMCTTTGTTHDDBH



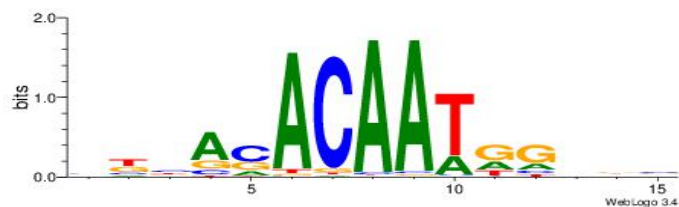
Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0151959

Alignment:

BKBASACAATRGHBB
 ---HCAGAATGTHD-

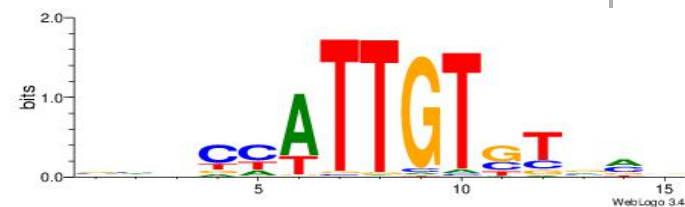
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1

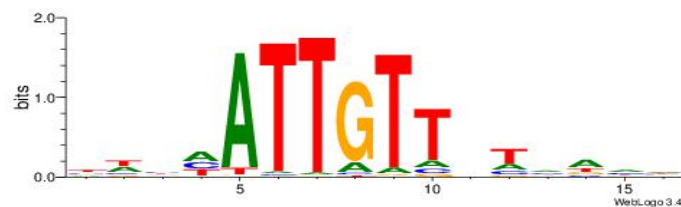
Number of overlap: 11
Similarity score: 0.015273

Alignment:

BWBHATTGTTBTHDHH
DHACATTCTGH-----

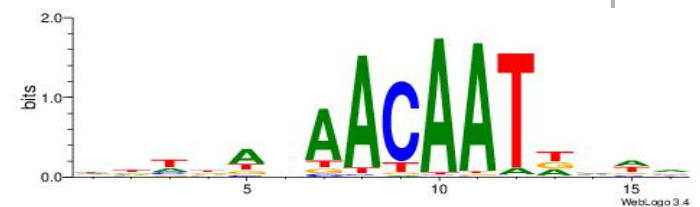
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



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

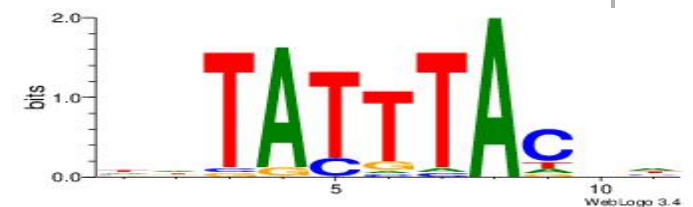
Original motif

Consensus sequence: DBGTAATAHD



Reverse complement motif

Consensus sequence: DHTATTTACBD



Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID: [UP00242](#)
Motif name: Hoxc8
Species: Mus musculus

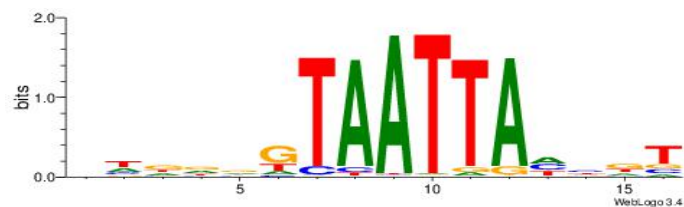
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

```
AHDHTAATTACHHHHV
--DHTATTTACBD---
```

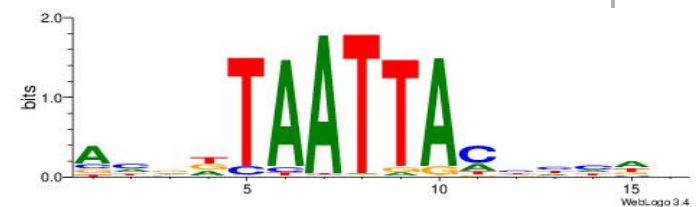
Original motif

Consensus sequence: BHDDDGTAATTAAHHD



Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



Motif ID:	UP00073
Motif name:	Foxa2_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:	0.00453517

Alignment:

HHWAWGTAAAYAAVDB

---DBGTAATAHD---

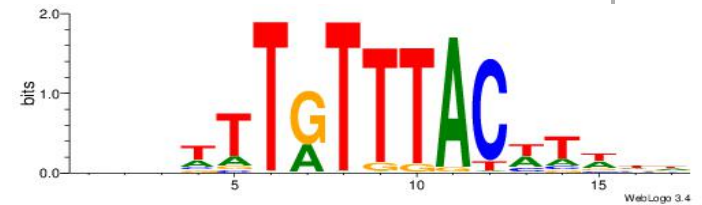
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



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:	4
Number of overlap:	11
Similarity score:	0.00490457

Alignment:

HDHADGTAAACAAAVVH

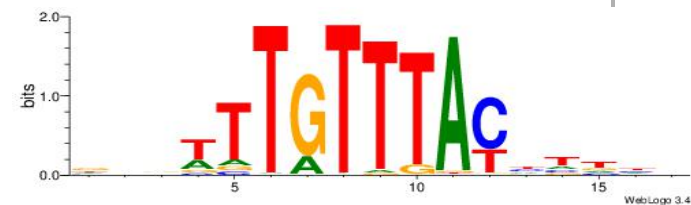
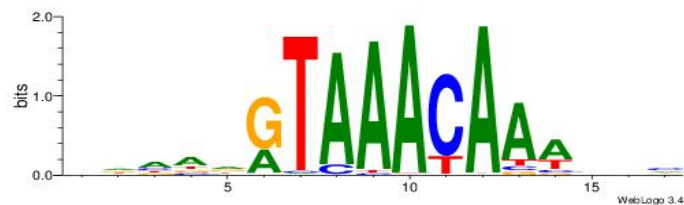
---DBGTAATAHD---

Original motif

Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH

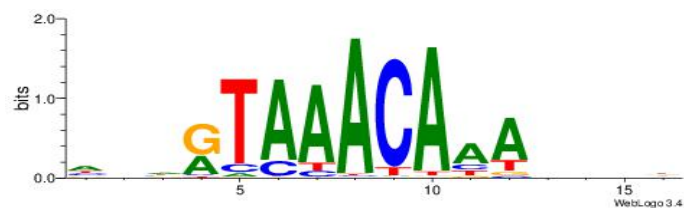


Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.00656547

Alignment:
 HDHRTAAACAAHDDD
 -DBGTAATAHD----

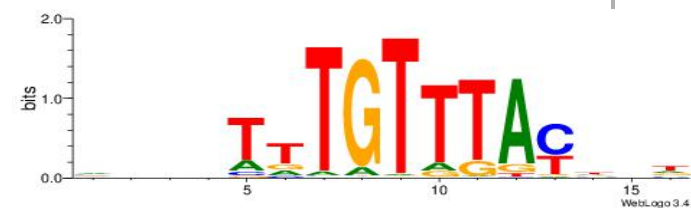
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDD



Motif ID: [UP00182](#)

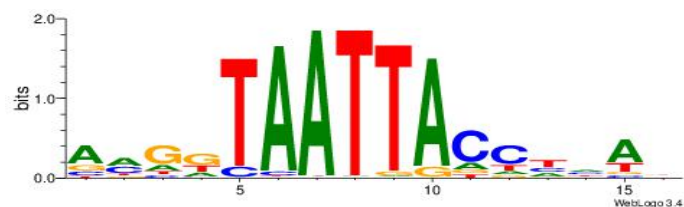
Motif name: Hoxa6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0086354

Alignment:

DTHHGGTAATTAYCYT
 ---DBGTAATAHD--

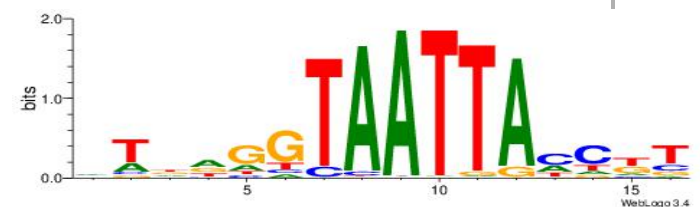
Original motif

Consensus sequence: AMGKTAATTACCHHAD



Reverse complement motif

Consensus sequence: DTHHGGTAATTAYCYT



Motif ID: [UP00260](#)
 Motif name: Hoxc6
 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: 11

Similarity score: 0.0092156

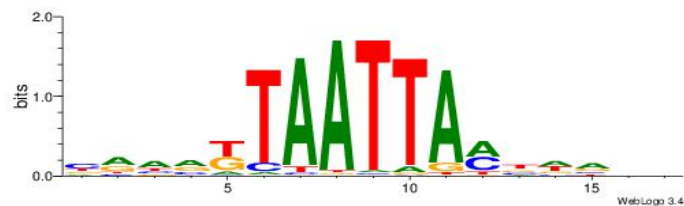
Alignment:

BRHVKTAATTAMBDVVD

---DHTATTTACBD---

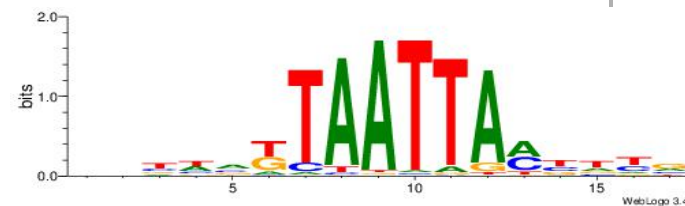
Original motif

Consensus sequence: BRHVKTAATTAMBDVVD



Reverse complement motif

Consensus sequence: DBBDVYTAATTARBHKB



Motif ID: [UP00164](#)
Motif name: Hoxa7_2668.2
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: 11
Similarity score: 0.00942246

Alignment:

VVHDDTAATTAHTDDBC

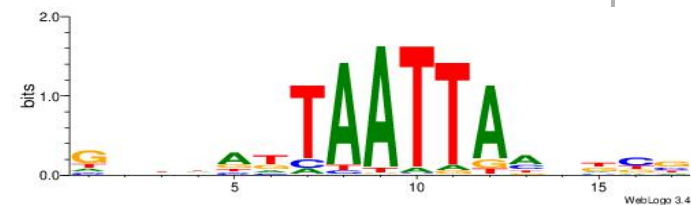
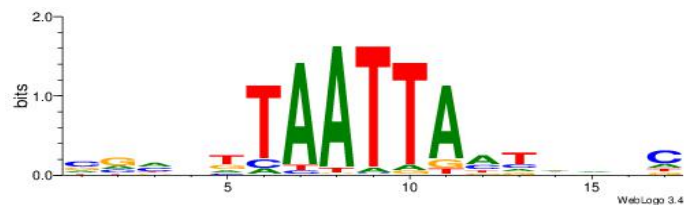
---DHTATTTACBD---

Original motif

Consensus sequence: VVHDDTAATTAHTDDBC

Reverse complement motif

Consensus sequence: GBDDAHTAATTADHHVV



Motif ID: [UP00259](#)
 Motif name: Hoxb6
 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: 0.00949005

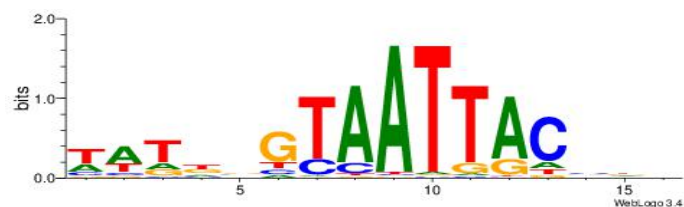
Alignment:

```

VDVGTAATTACBDAWW
-DBGTAATAHD-----
  
```

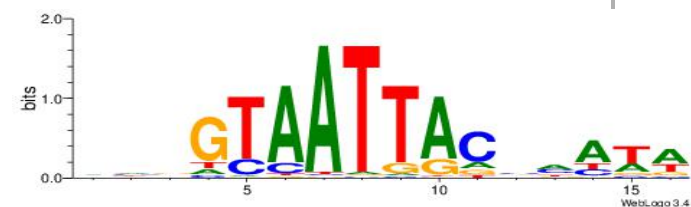
Original motif

Consensus sequence: WWTDBGTAATTACVDB



Reverse complement motif

Consensus sequence: VDVGTAATTACBDAWW



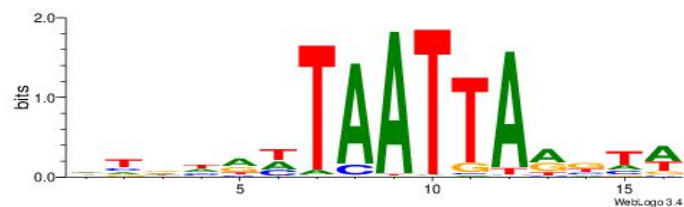
Motif ID: [UP00254](#)
 Motif name: Pou2f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00998499

Alignment:

WABKTAATTAKHHHD
 -DBGTAATAHD-----

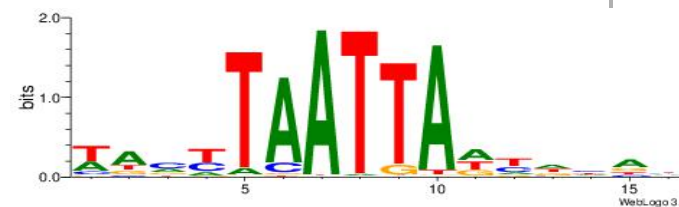
Original motif

Consensus sequence: DHDHRHTAATTARBTW



Reverse complement motif

Consensus sequence: WABKTAATTAKHHHD



Motif ID: [UP00110](#)
 Motif name: Dlx4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

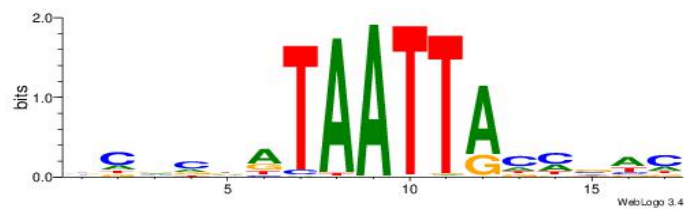
Number of overlap: 11
Similarity score: 0.0107458

Alignment:

GHVRGTAATTATDVVG
--DBGTAAATAHD----

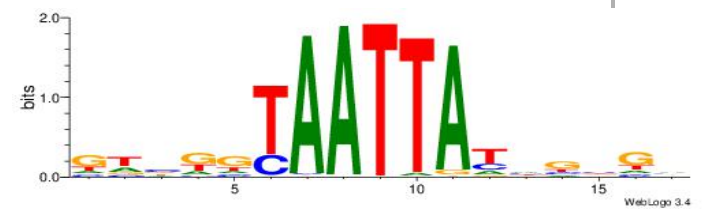
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVG



Results created by MOTIFSIM on 11-20-2016 13:21:41

Runtime: 601.6 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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