



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

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

Input files and motif counts

File name	Count of motifs	Dataset number
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)

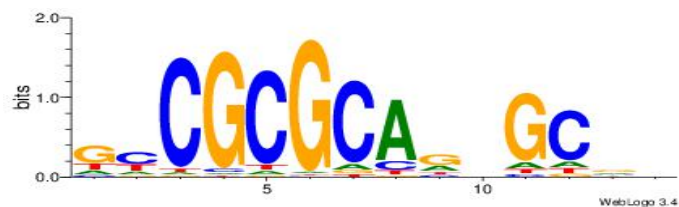
Motif ID:	UP00065
Motif name:	Zfp161_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	6
Similarity score:	0

Alignment:

```
GYCGCGCARBGCVB
GTCGCG-----
```

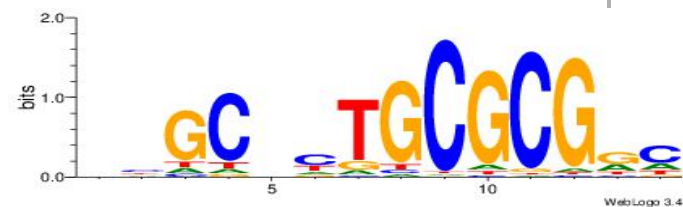
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



Motif ID:

[UP00060](#)

Motif name:

Max_secondary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

Original Motif

Direction:

Backward

Position number:

3

Number of overlap:

6

Similarity score:

0.00875457

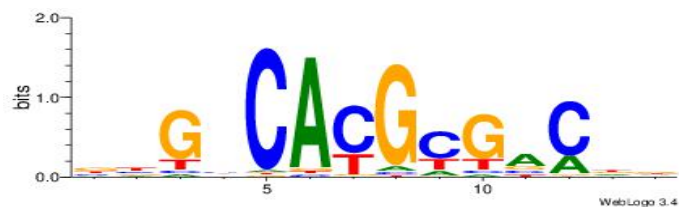
Alignment:

BBGHCACGCGACDD

-----CGCGAC--

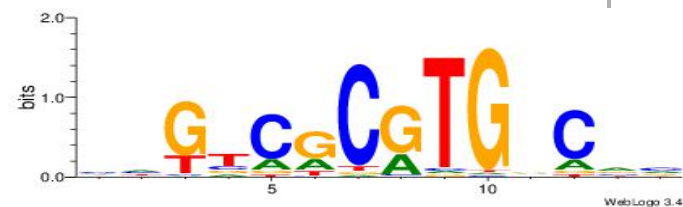
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



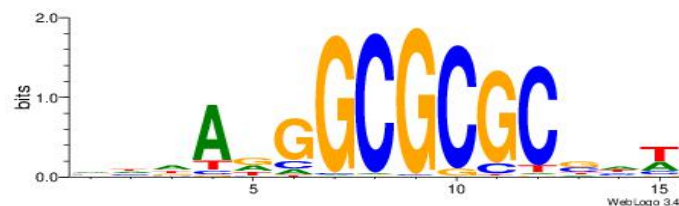
Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0102952

Alignment:

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

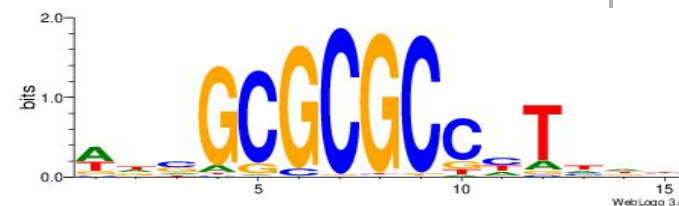
Original motif

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

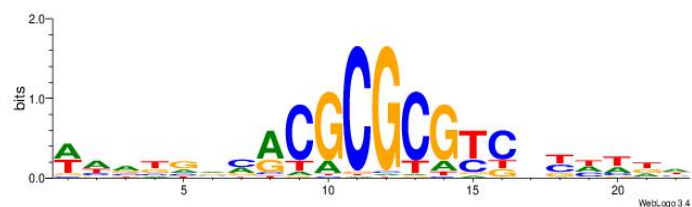
Position number: 7
Number of overlap: 6
Similarity score: 0.0119605

Alignment:

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

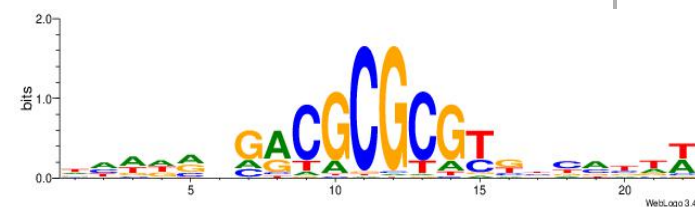
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVBVHW



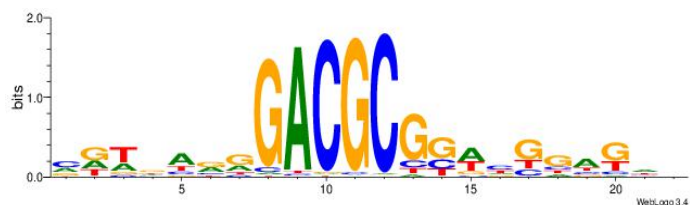
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 6
Similarity score: 0.014366

Alignment:

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

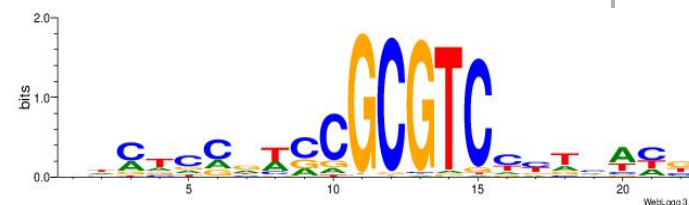
Original motif

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

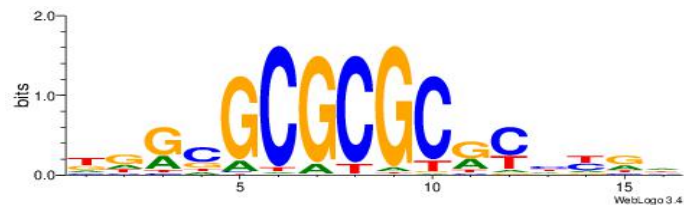
Alignment:

DMMDGMGCGCGCHD

-----CGCGAC--

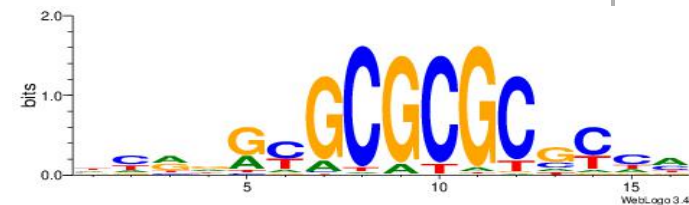
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCHD



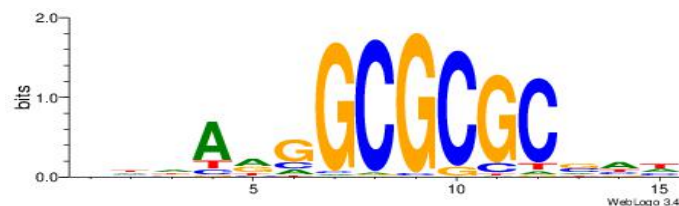
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0147239

Alignment:

HHVCGCGCCKTDHB
 ----CGCGAC-----

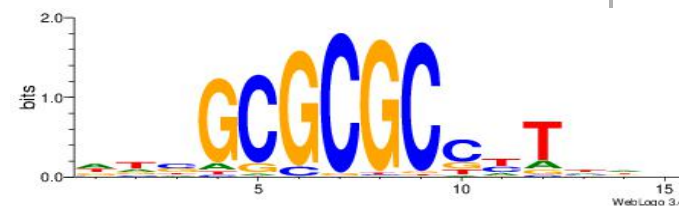
Original motif

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

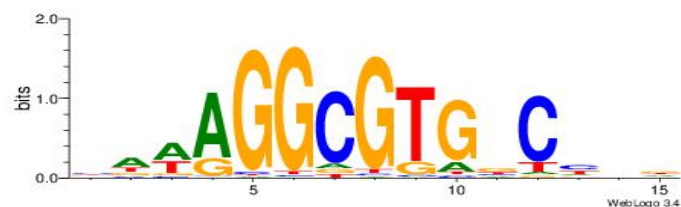
Position number: 7
Number of overlap: 6
Similarity score: 0.0222574

Alignment:

HHDGBCACGCCTWDB
---GTCGCG-----

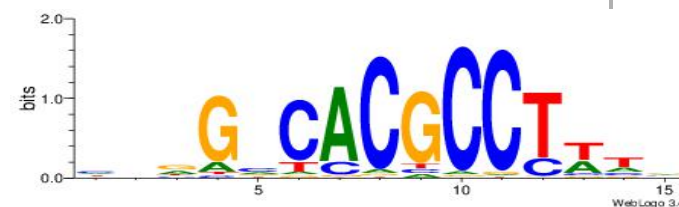
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



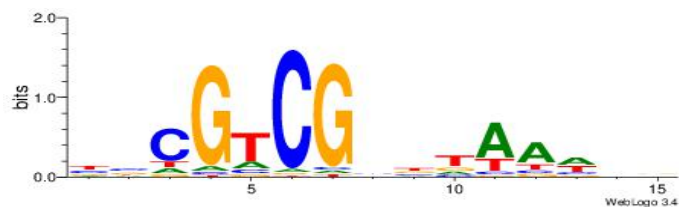
Motif ID: [UP00049](#)
Motif name: Sp100_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 6
Similarity score: 0.0300795

Alignment:

BBCGTCGHBTAAWDB
---GTCGCG-----

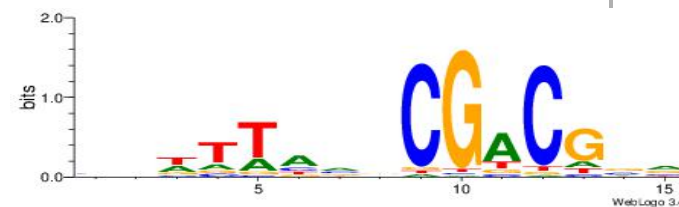
Original motif

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

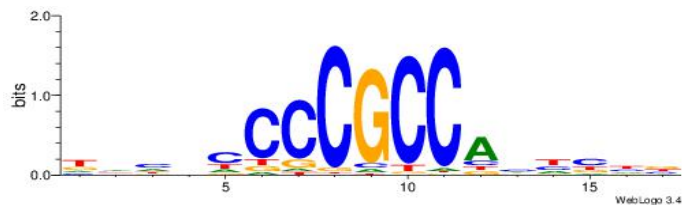
Alignment:

BHBHDTGGCGGGBDHD

----GTCGCG-----

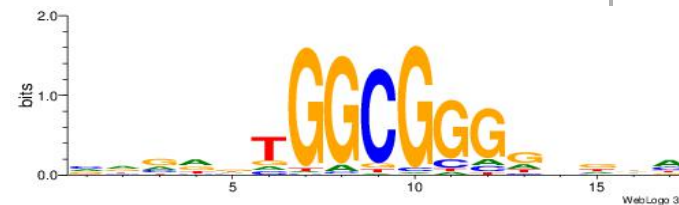
Original motif

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:

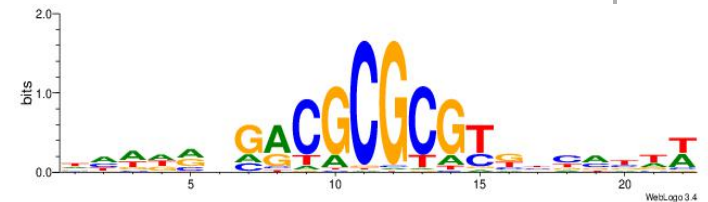
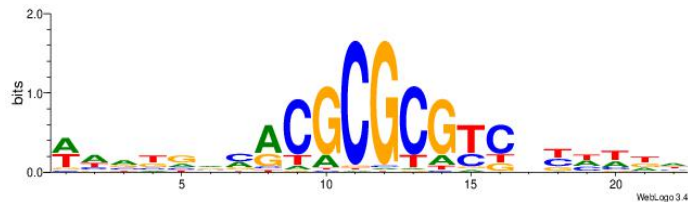
HDWHMHGACGCGCGTRBVVBHW
-----CCGCGCGS-----

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

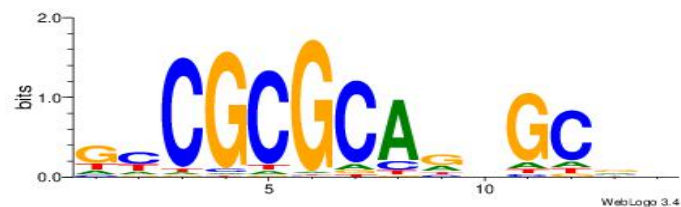
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



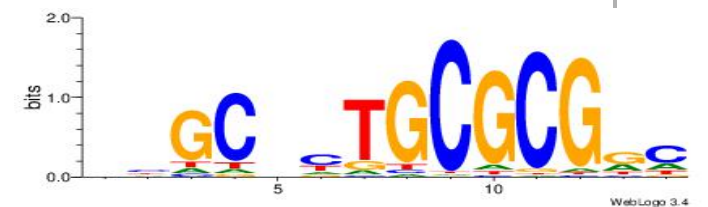
Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.00228411

Alignment:
 VVGCVMTGCGCGKC
 -----CCGCGCGS-

Original motif
 Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif
 Consensus sequence: VVGCVMTGCGCGKC



Motif ID: [UP00003](#)

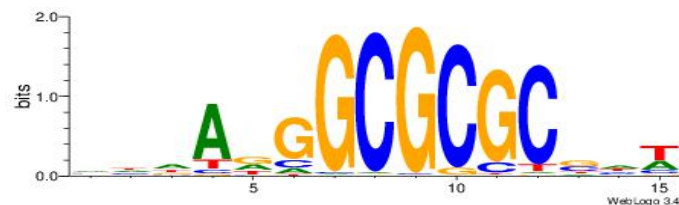
Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00337853

Alignment:

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

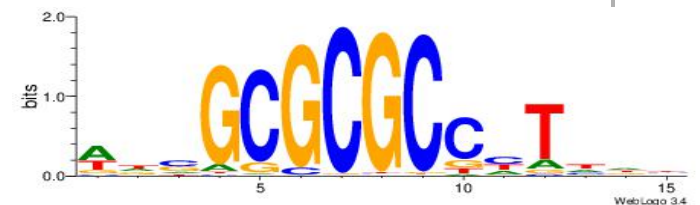
Original motif

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: Forward
 Position number: 2
 Number of overlap: 8

Similarity score: 0.00399923

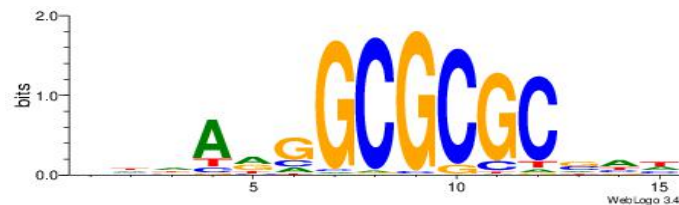
Alignment:

HHVCGCGCCKTDHB

-CCGCGCGS-----

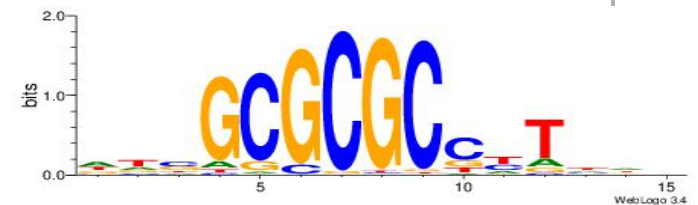
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVCGCGCCKTDHB



Motif ID: [UP00065](#)

Motif name: Zfp161_primary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 5

Number of overlap: 8

Similarity score: 0.00484534

Alignment:

DMMDGMGCGCGCGCHD

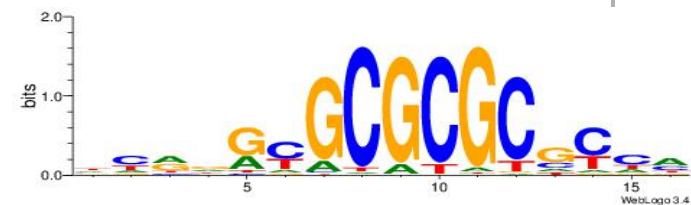
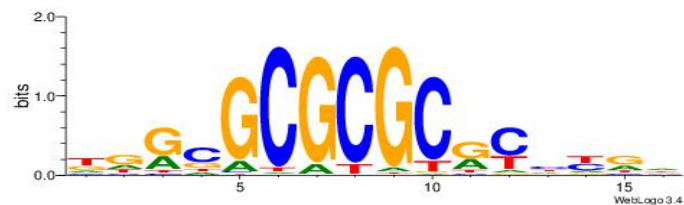
----SCGCGCGG----

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



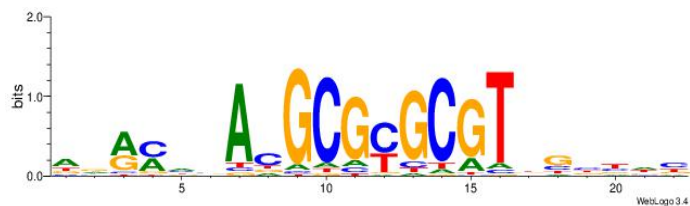
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0149577

Alignment:

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

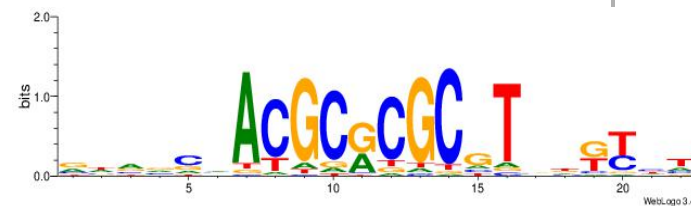
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



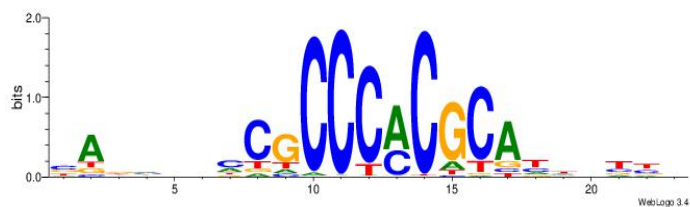
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0194485

Alignment:

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

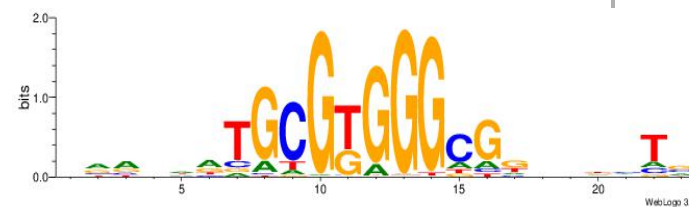
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



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

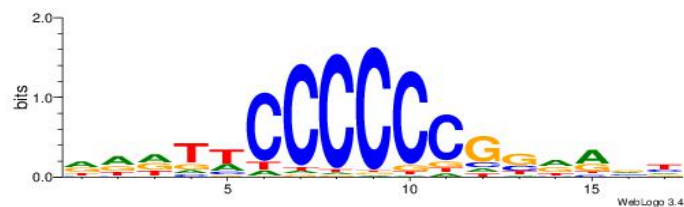
Number of overlap: 8
Similarity score: 0.0230299

Alignment:

HVKDCCGGGGGGWADDD
-----SCGCGCGG-----

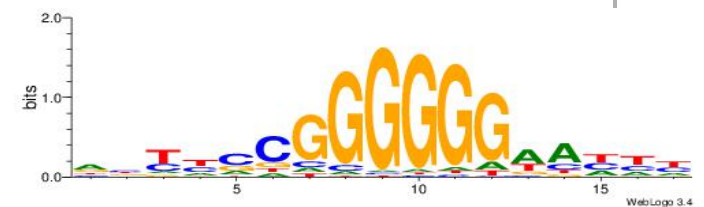
Original motif

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

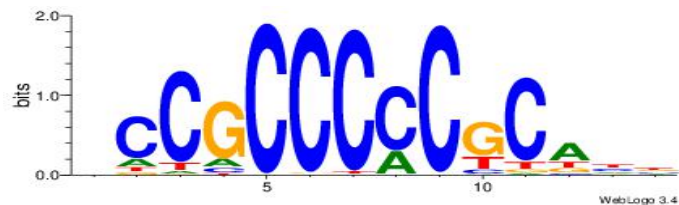
Alignment:

HCCGCCCCCGCAHB
-----CCGCGCGS-

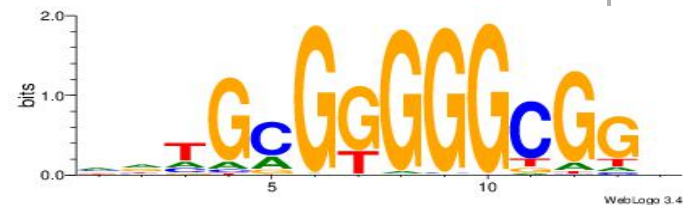
Original motif

Reverse complement motif

Consensus sequence: HCCGCCCCCGCAHB



Consensus sequence: VHTGCGGGGGCGGH



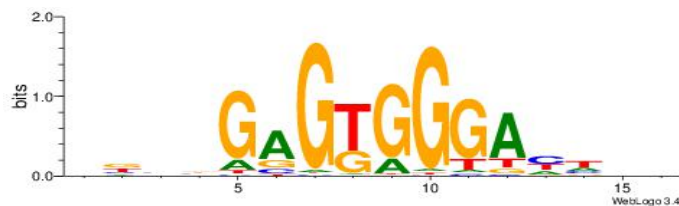
Motif ID: [UP00007](#)
Motif name: Egr1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.0249557

Alignment:

```
BHHDTCCTCACTCBDBV  
-----CCGCGCGS---
```

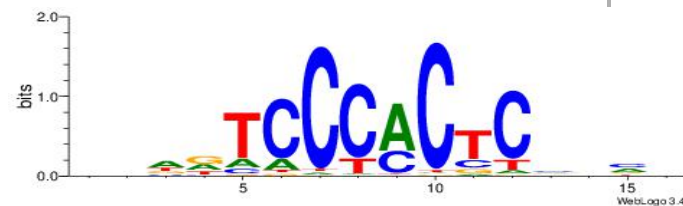
Original motif

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:

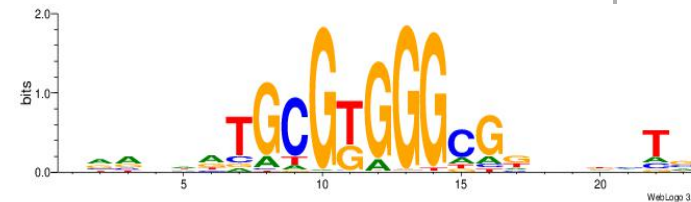
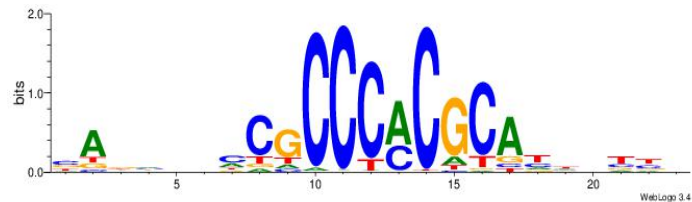
```
VVVDHHTGCGYGGGCGDHVHHTB
-----CGCGBMGCCG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

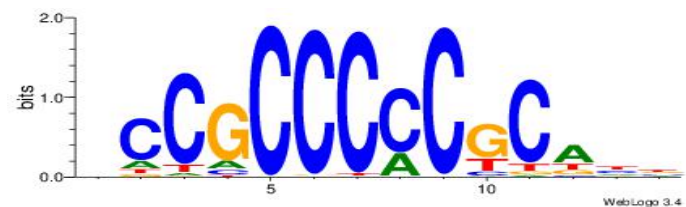


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0342114

Alignment:
 HCCGCCCCCGCAHB
 --CGGCYBCGCG--

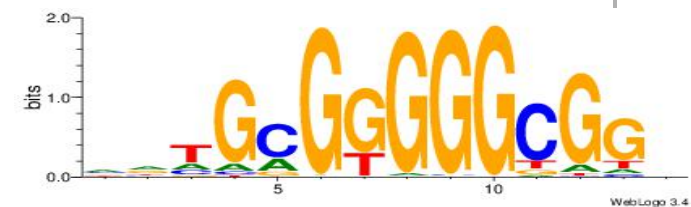
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00527](#)

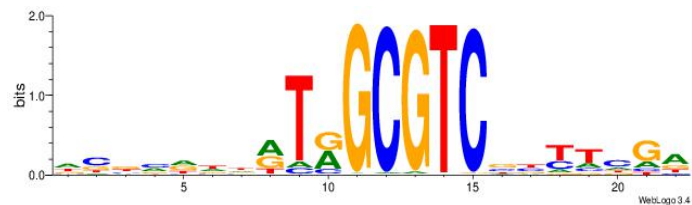
Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12
 Number of overlap: 10
 Similarity score: 0.0356548

Alignment:

DBBVDDDRTRGCGTCBBYTHGA
 -----CGGCYBCGCG--

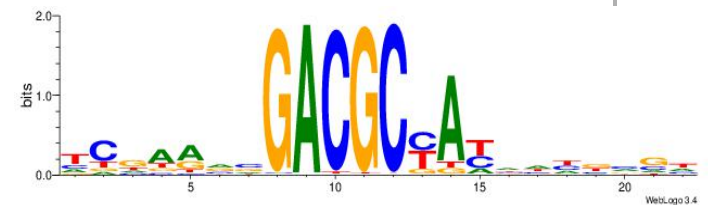
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBDD

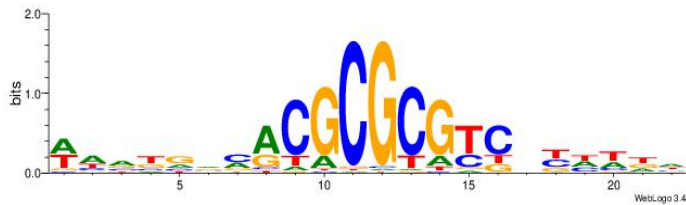


Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 11
 Number of overlap: 10

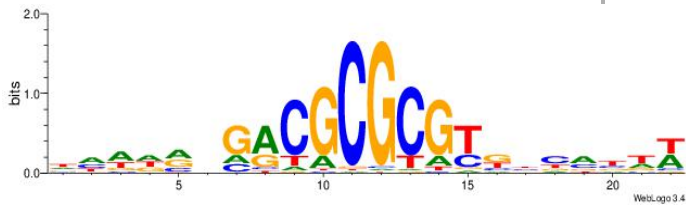
Similarity score: 0.041792

Alignment:
HDWHMHGACGCGCGTRBVVBHW
-----CGCGBMGCCG--

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW

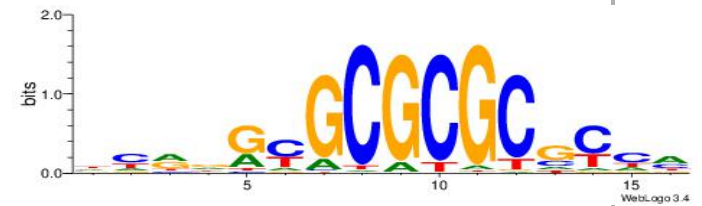
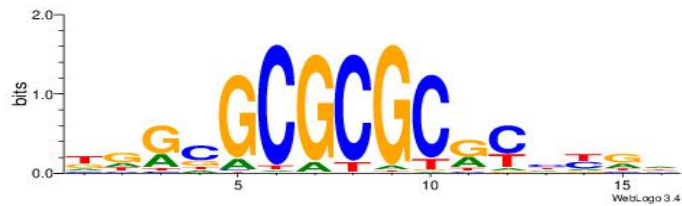


Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.041904

Alignment:
DDGCGCGCGCRCHYRD
-----CGCGBMGCCG--

Original motif
Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif
Consensus sequence: DMMDGMGCGCGCGCHD



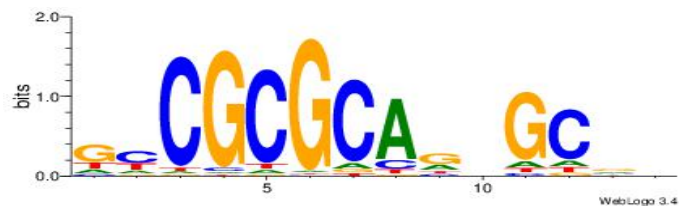
Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0419429

Alignment:

VVGCVMTGCGCGKC
 CGGCYBCGCG----

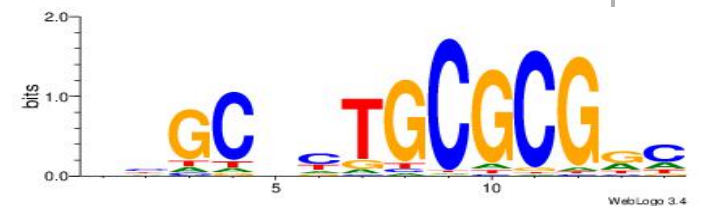
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



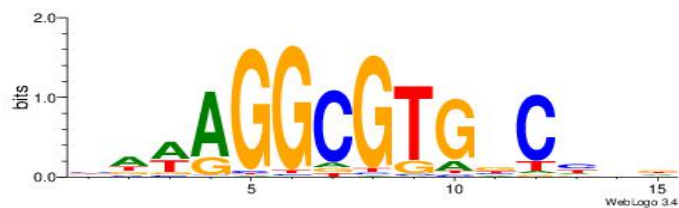
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.0475178

Alignment:

BDWAGGCGTGBCHHD
 ----CGCGBMGCCG--

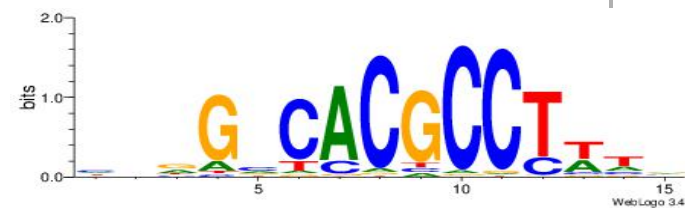
Original motif

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

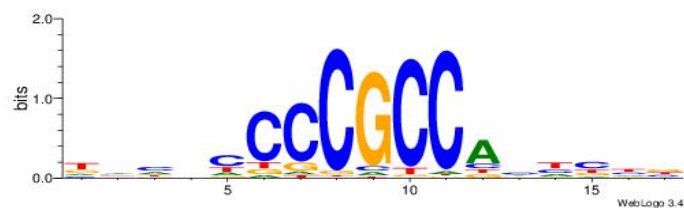
Number of overlap: 10
Similarity score: 0.0490044

Alignment:

DHHBCCCCGCCAHHBHB
-----CGGCYBCGCG

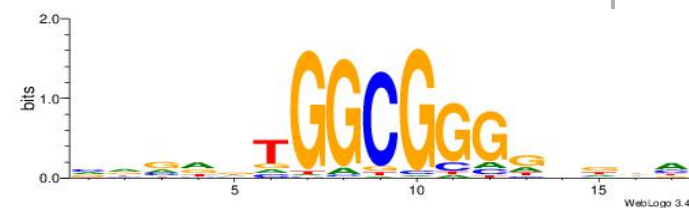
Original motif

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

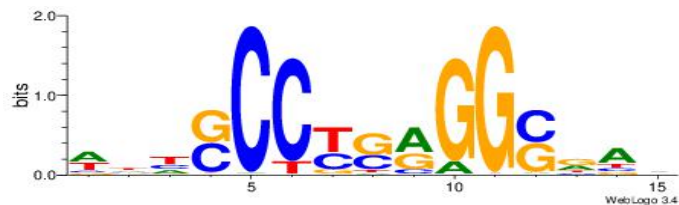
Alignment:

DTHSCCKSMGGSHHW
--CGGCYBCGCG---

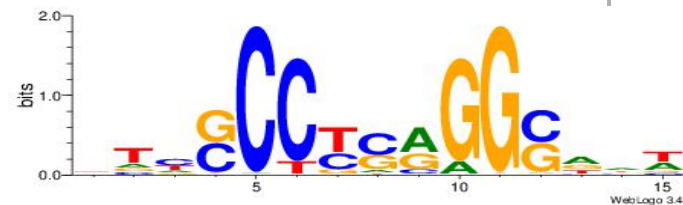
Original motif

Reverse complement motif

Consensus sequence: WHHSCCYSRGGSDAD



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

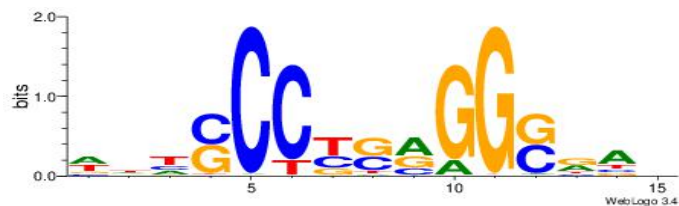
Alignment:

DTMSCCKSMGGSHDW

--CGGCYBCGCG---

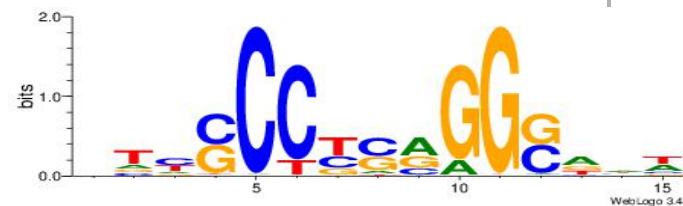
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

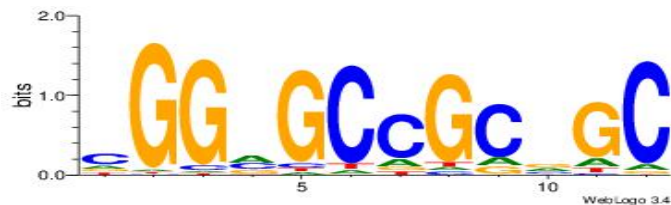
Consensus sequence: DTMSCCKSMGGSHDW



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

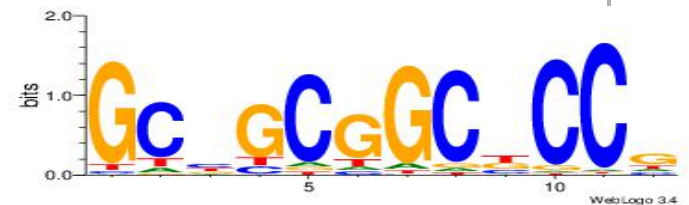
Original motif

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:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0423593

Alignment:

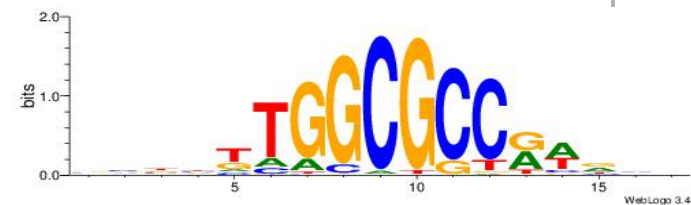
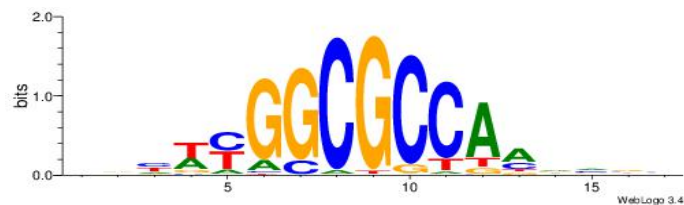
```
HBHWYGGCGCCAMDVB  
-----CGGVGCCGCVGC-
```

Original motif

Consensus sequence: HBHWYGGCGCCAMDVB

Reverse complement motif

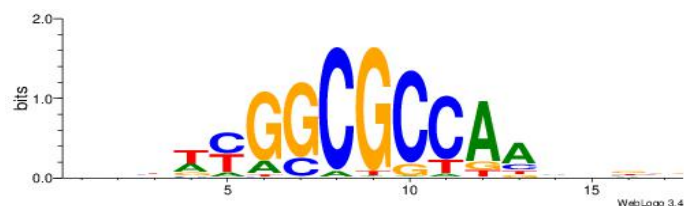
Consensus sequence: BBBDYTGCGCCKWDBD



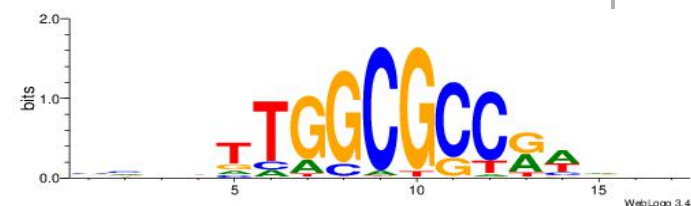
Motif ID: [UP00001](#)
 Motif name: E2F2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.046515

Alignment:
 HVBWYGGCGCCAADVBB
 ----CGGVGCCGCVGC-

Original motif
 Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif
 Consensus sequence: BBBDDTGGCGCKWVVD



Motif ID: [UP00088](#)

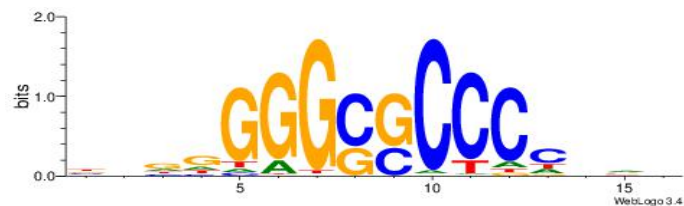
Motif name: Plagl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0472704

Alignment:

BHDGGGGSSCCCCBVV
 GCVGCGGCBCCG----

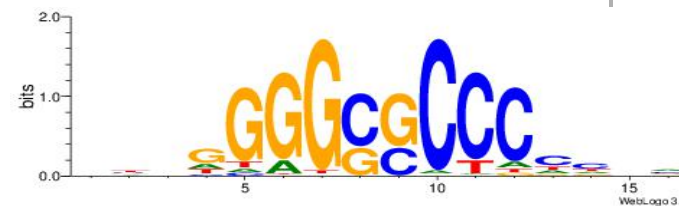
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCCHHV



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

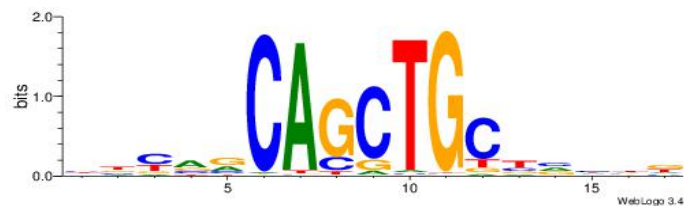
Alignment:

BBYVVCAGCTGCBVHHD

----GCVGCGGCBCCG--

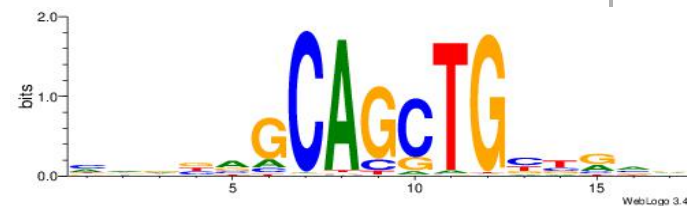
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKV



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

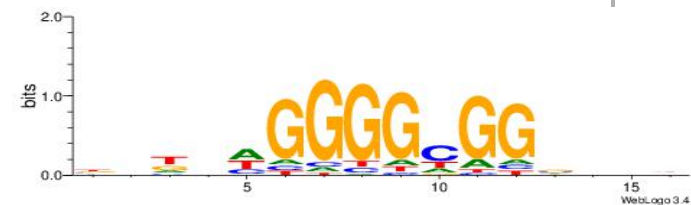
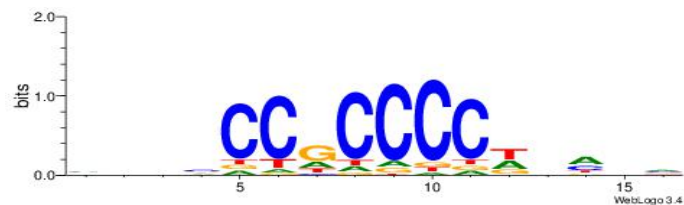
GCVGCGGCBCCG----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



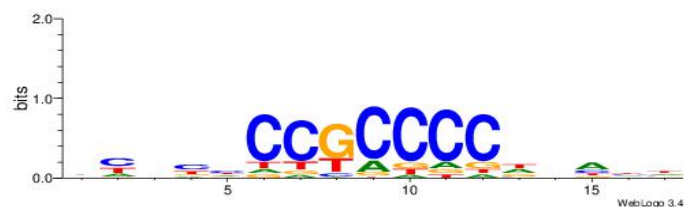
Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0533422

Alignment:

BHHBHCCGCCCCDHHHH
 -GCVGCGGCBCCG-----

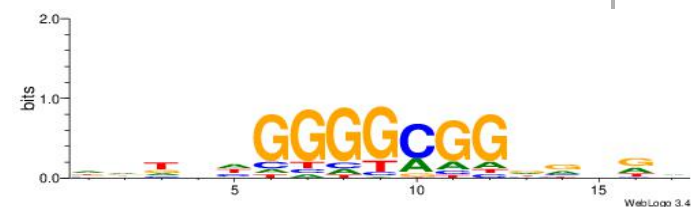
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



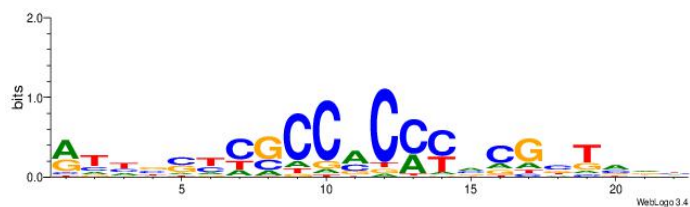
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 12
 Similarity score: 0.0561199

Alignment:

HDBABCGBKRGYGGCGMSBHAK
 -----CGGVGCCGCVGC--

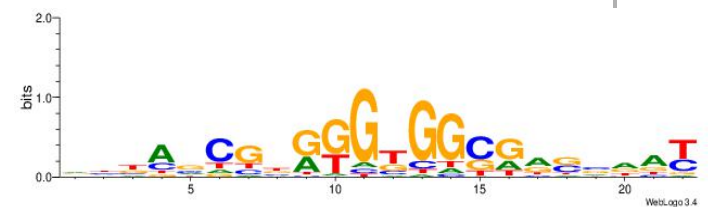
Original motif

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

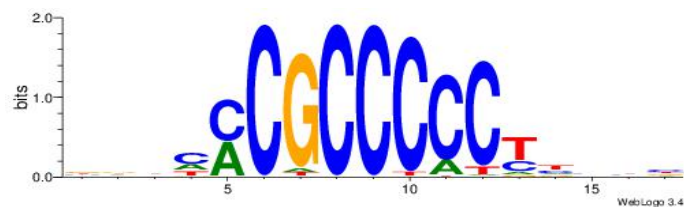
Number of overlap: 12
Similarity score: 0.0577556

Alignment:

BDHMC GCCCCTHVBB
-GCVGCGGCBCCG----

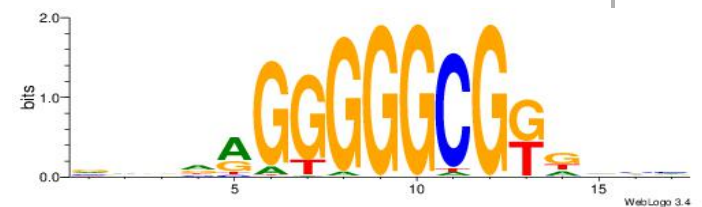
Original motif

Consensus sequence: BDHMC GCCCCTHVBB



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

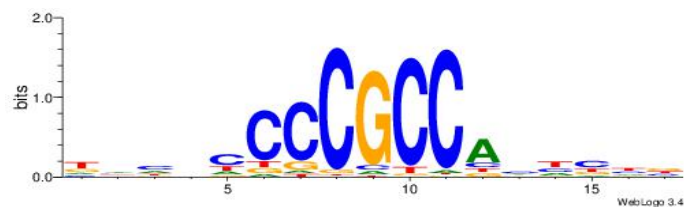
Alignment:

DHHBCCCGCCAHHBHB
GCVGCGGCBCCG-----

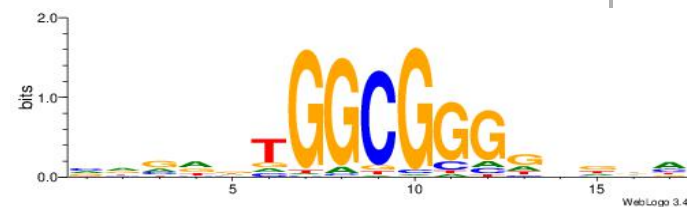
Original motif

Reverse complement motif

Consensus sequence: DHHBCCCCGCCAHHBH



Consensus sequence: BHBHDTGGCGGGGBDHD



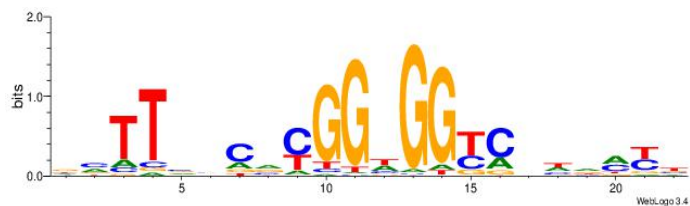
Motif ID: [UP00540](#)
Motif name: Gli3_v015681_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0581164

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
-----CGGVGCCGCVGC--

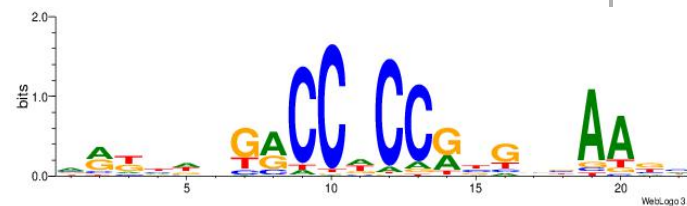
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKKBGVVAHVH



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

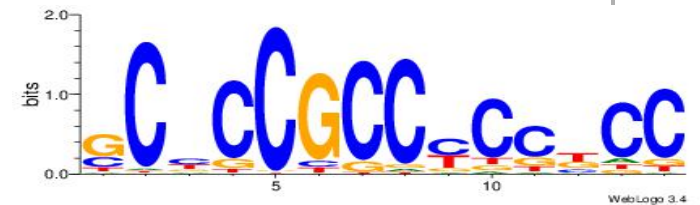
Original motif

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

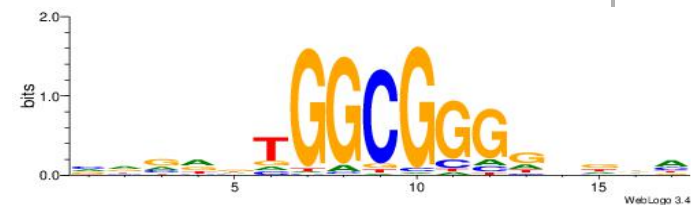
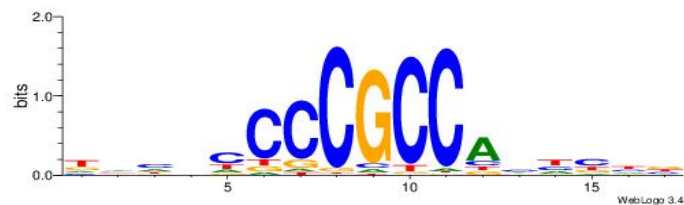
---GCVCCGCCMCCYCC

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

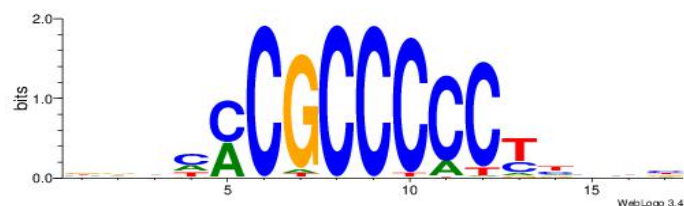


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0308559

Alignment:
 BDHHMCGCCCCCTHVBB
 -GCVCCGCCMCCYCC--

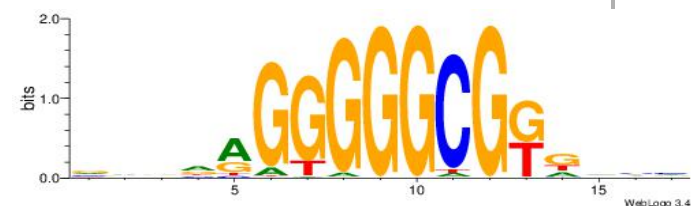
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00033](#)

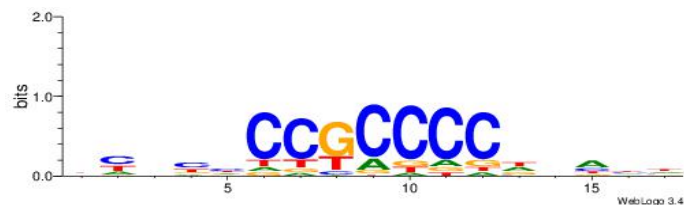
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0379479

Alignment:

BHHBHCCGCCCCDHHHH
 --GCVCCGCCMCCYCC--

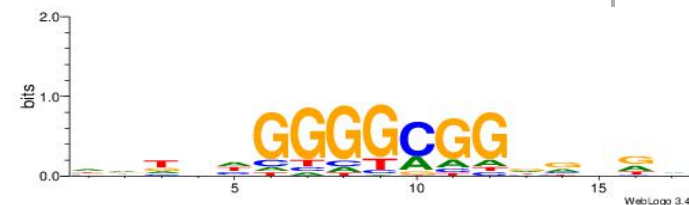
Original motif

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

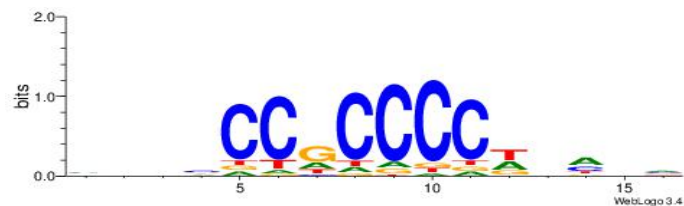
Alignment:

HB BBCCGCCCCW HHHV

-GCVCCGCCMCCYCC-

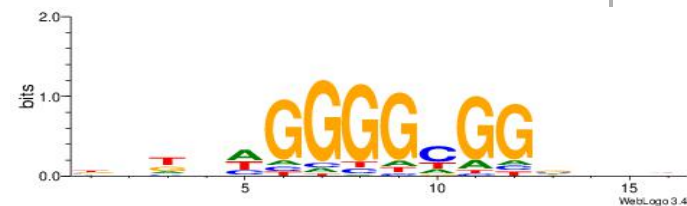
Original motif

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

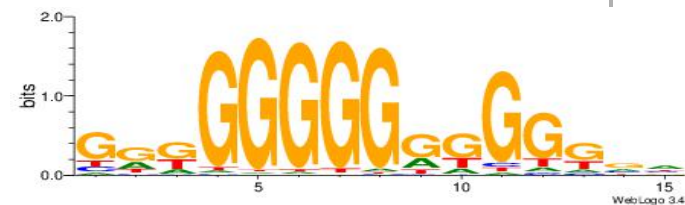
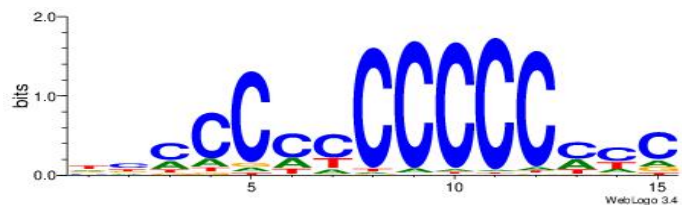
GGMGGRGGCGGVGC-

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



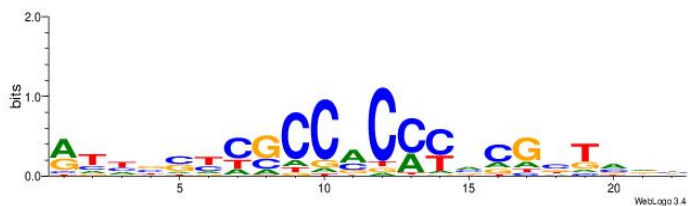
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.039083

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 --GCVCCGCCMCCYCC-----

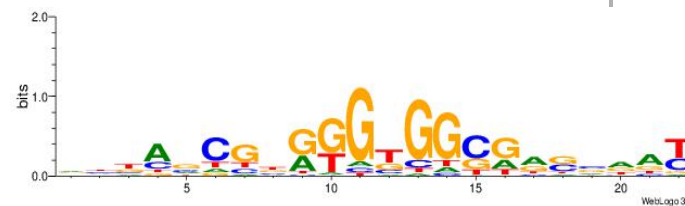
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00022](#)

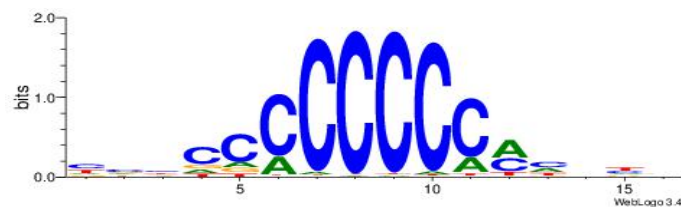
Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0439675

Alignment:

BHHDYGGGGGGGGBVD
 --GCVCCGCCMCCYCC

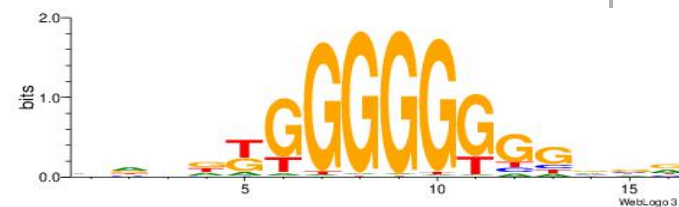
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



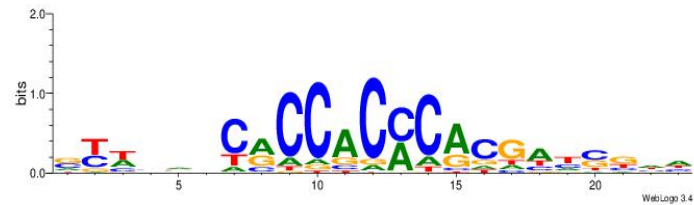
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 14
 Similarity score: 0.0542214

Alignment:

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

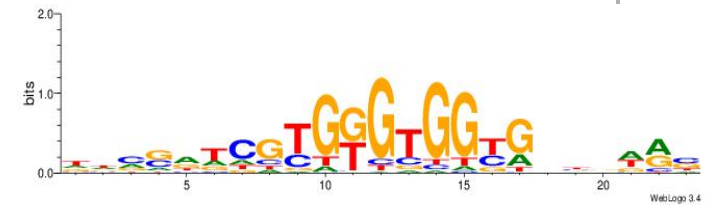
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVBWVMV



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:

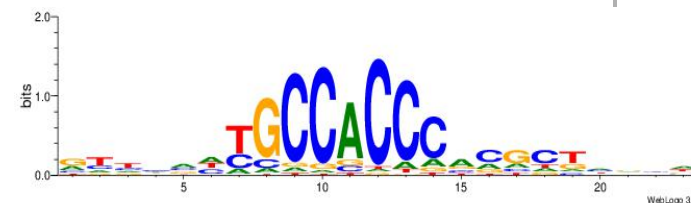
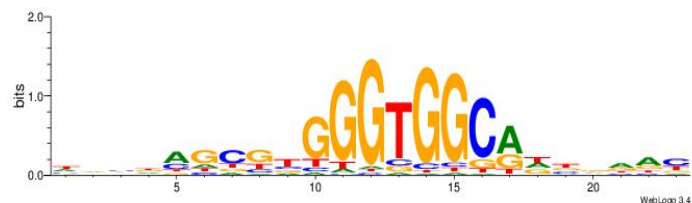
BDDHVDKGCCACCCVCGCTDBVH
--GCVCCGCCMCCYCC-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



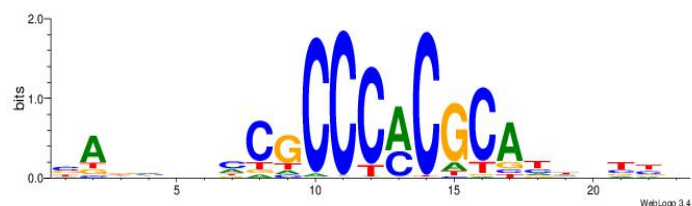
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 14
 Similarity score: 0.0551379

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
 ---GCVCCGCCMCCYCC-----

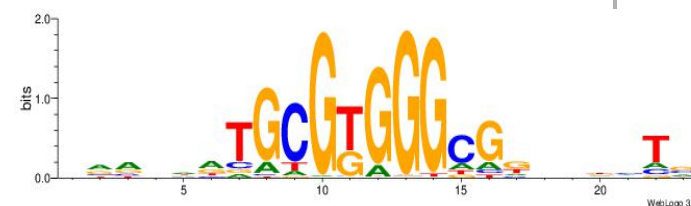
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

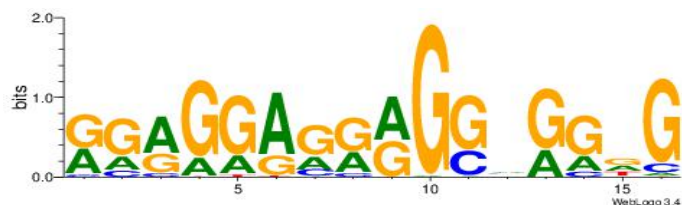
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



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

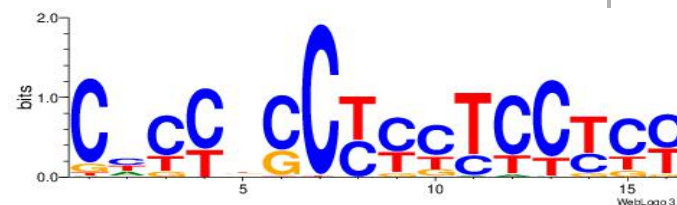
Original motif

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

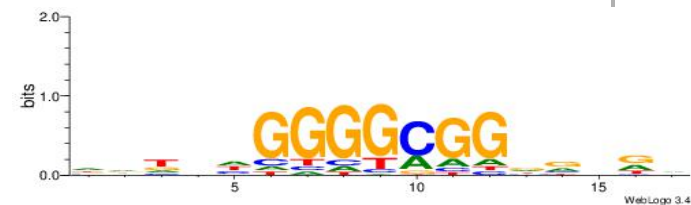
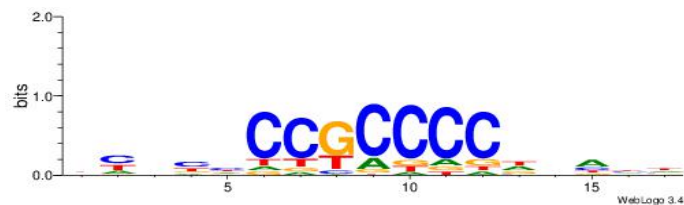
CHCCBCKMCTCCKCM-

Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH

Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



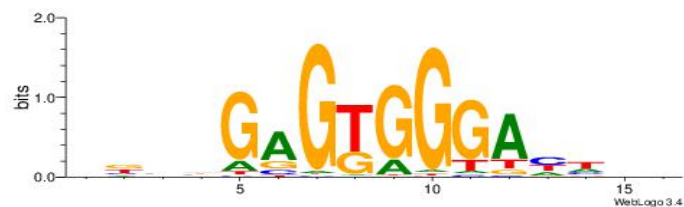
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 16
 Similarity score: 0.0564739

Alignment:

BBHBGAGTGGGAHHDB
 RGRGGAGRRGGHGGDG

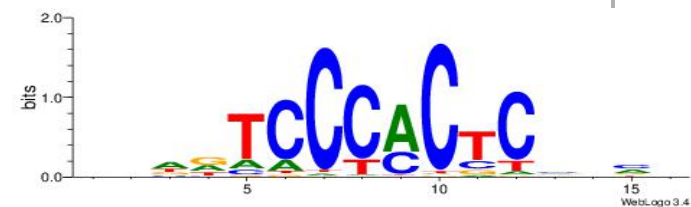
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV



Motif ID: [UP00400](#)

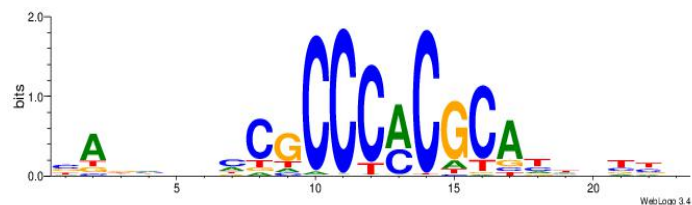
Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 16
 Similarity score: 0.0588056

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
 ----CHCCBCCKMCTCCKCM----

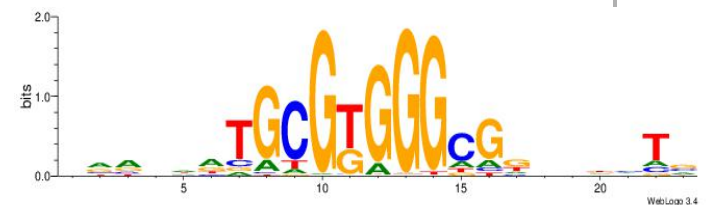
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



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

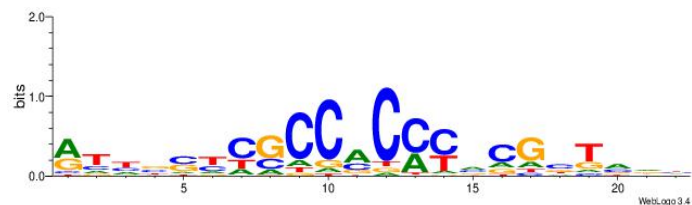
Alignment:

RTHBSYCGCCMCMYVCGBTVDH

---CHCCBCCKMCTCCKCM---

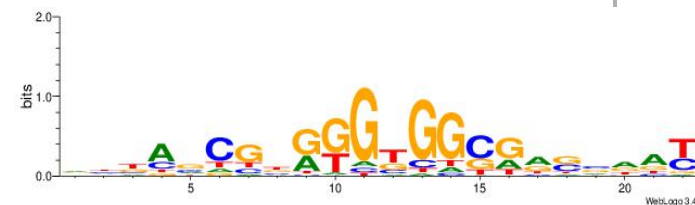
Original motif

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

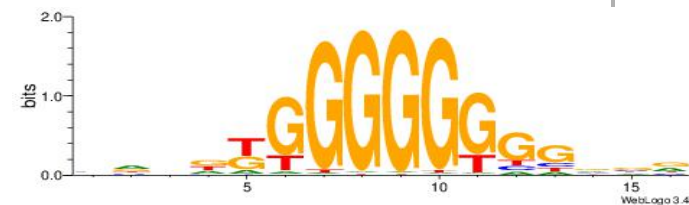
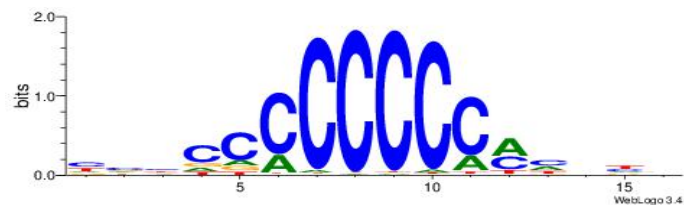
RGRGGAGRRGGHGGDG

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD

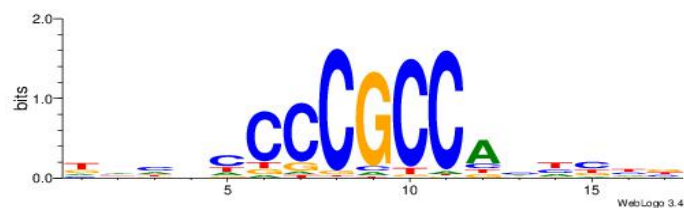


Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.06023

Alignment:
 DHHBCCCCGCCAHHBHB
 -CHCCBCKMCTCCKCM

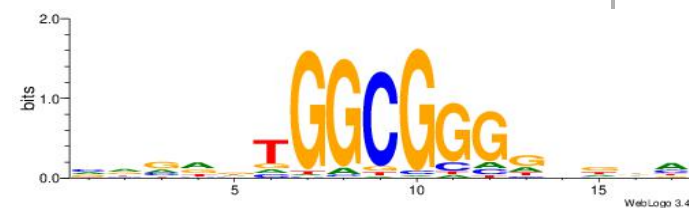
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00539](#)

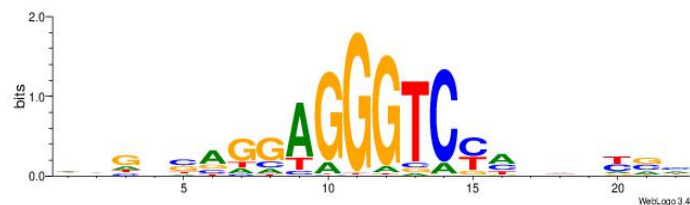
Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 16
 Similarity score: 0.060636

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 CHCCBCKMCTCCKCM-----

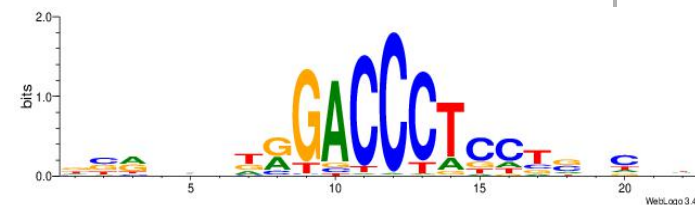
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

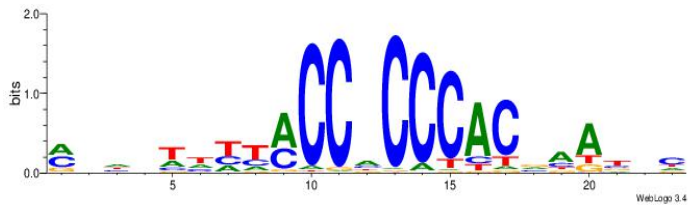


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 16

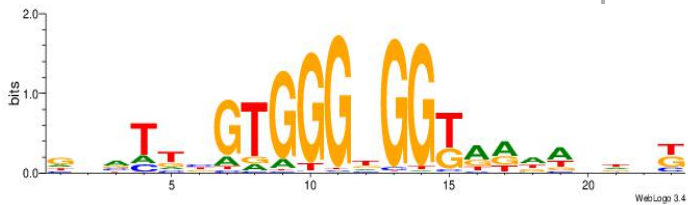
Similarity score: 0.0621813

Alignment:
MHHHWHYTMCCCHCCCACVAABVH
-----CHCCBCKMCTCCKCM

Original motif
Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif
Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

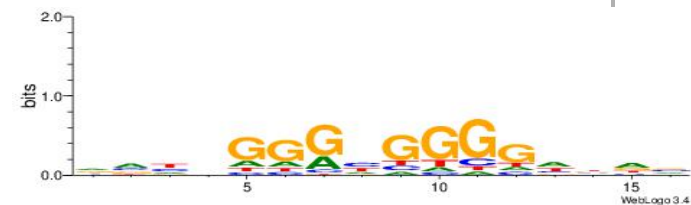
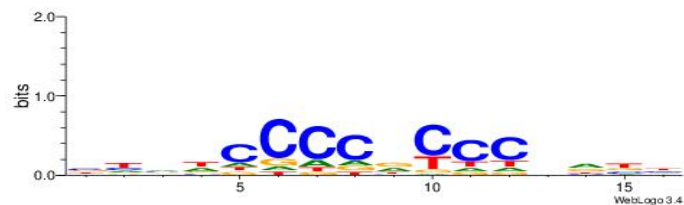


Motif ID: [UP00099](#)
Motif name: Ascl2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0624626

Alignment:
HVDVGGGHGGGGDBHB
RGRGGAGRRGGHGGDG

Original motif
Consensus sequence: BHVDCCCCDCCCBDBH

Reverse complement motif
Consensus sequence: HVDVGGGHGGGGDBHB



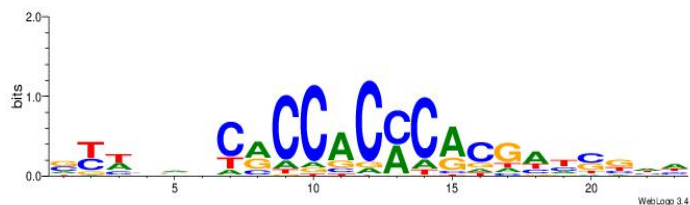
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 16
 Similarity score: 0.0627639

Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
 ----RGRGGAGRRGGHGGDG----

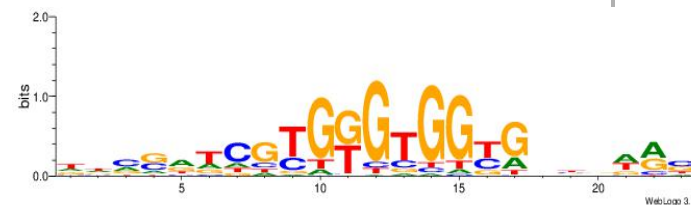
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

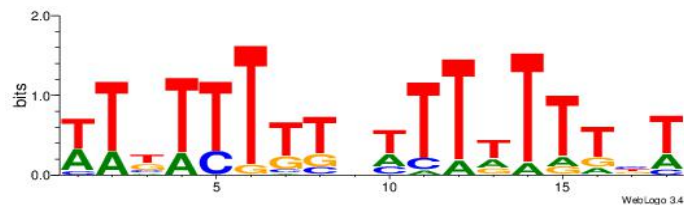
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



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

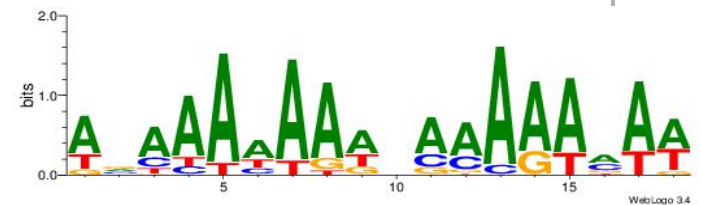
Original motif

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:

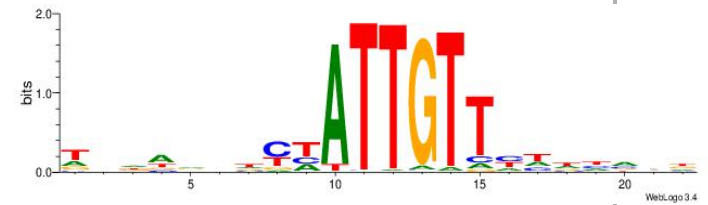
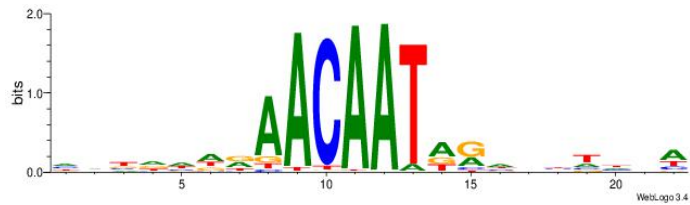
```
HHBDHDDAACAATDRHHHHHBW
----ABAAAAAWhAAAAARAW
```

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

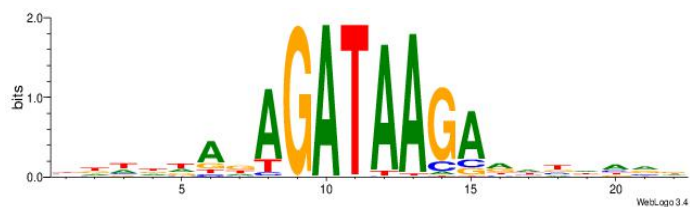


Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0549239

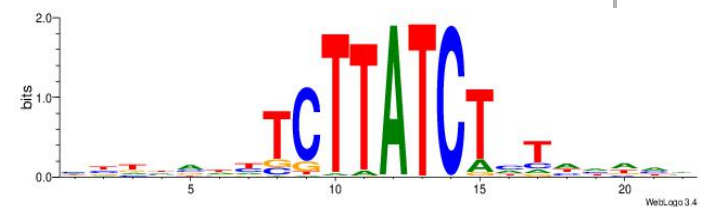
Alignment:

```
HBHVDVHDTCTTATCTHTDDHDV
---WTKTTTTTHWTTTTTBT-
```

Original motif
Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00034](#)

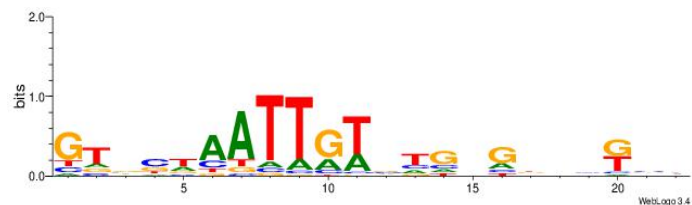
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.0554316

Alignment:

VVYDDDCHCAVACAATTDBVAC
 ---ABAAAAAWhAAAAARAW-

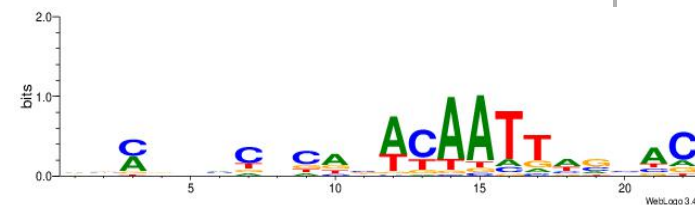
Original motif

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

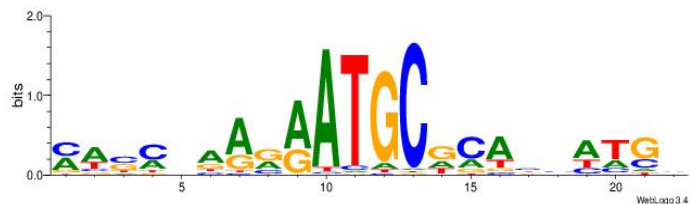
Alignment:

MWSMBAARRATGCD CABHATGD

-ABAAAAAAWHAAAAARAW---

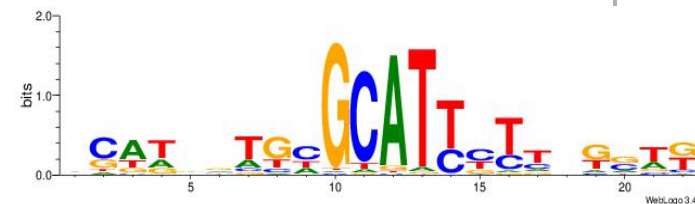
Original motif

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

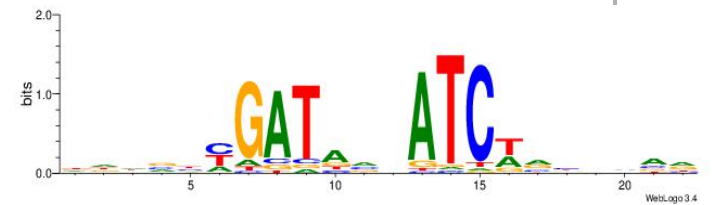
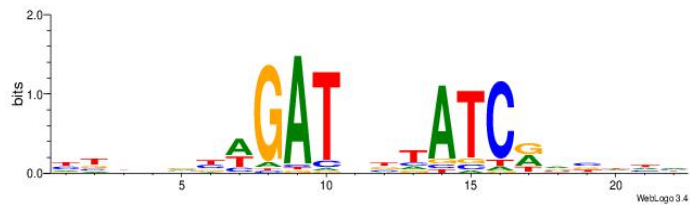
--ABAAAAAAWHAAAAARAW--

Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



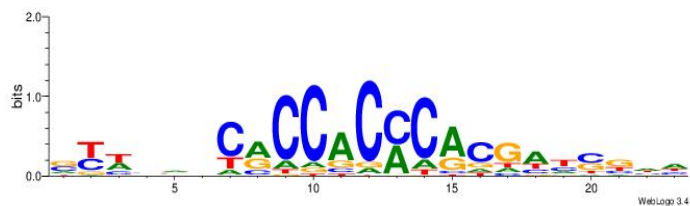
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 18
 Similarity score: 0.0717094

Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
 -WTKTTTTTHWTTTTTTBT----

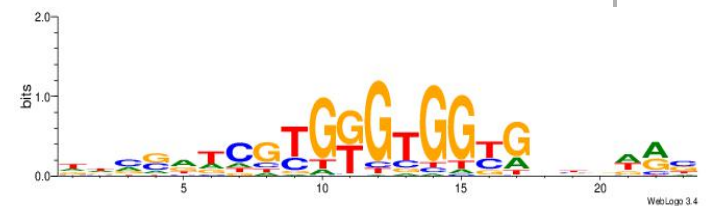
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



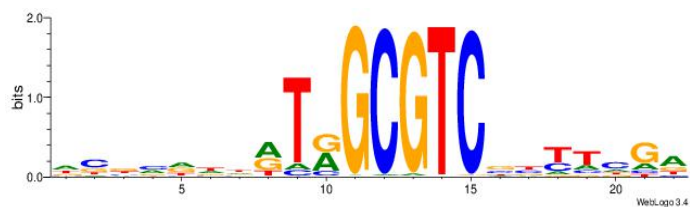
Motif ID: [UP00527](#)
 Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0722891

Alignment:

TCDAMVBGACGCMKDDDDVBBD
 -ABAAAAAAWHAAAAARAW---

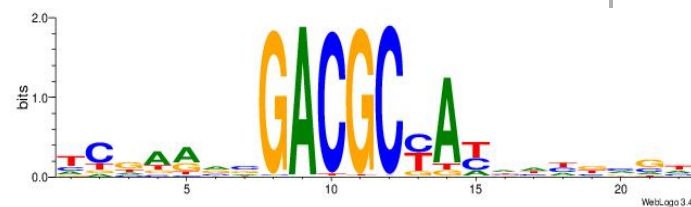
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDDVBBD



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

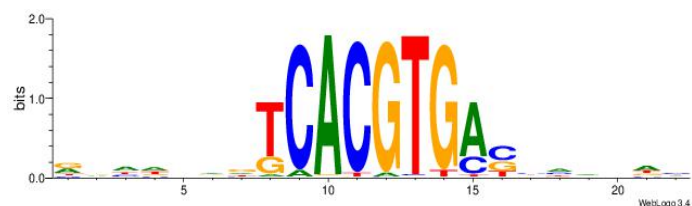
Number of overlap: 18
Similarity score: 0.0734635

Alignment:

DDHBHBSTCACGTGAHBBDHBM
-WTKTTTTTHWTTTTTTBT---

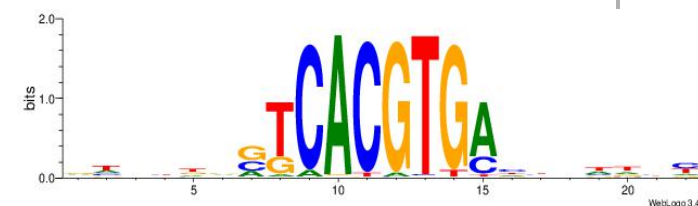
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHBM



Motif ID: [UP00077](#)
Motif name: Srf_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.531811

Alignment:

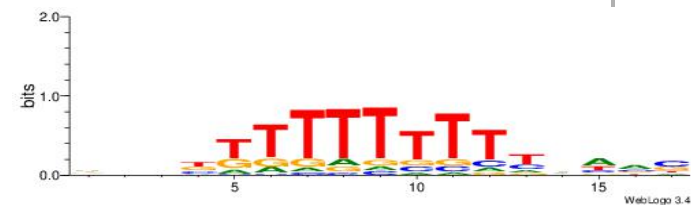
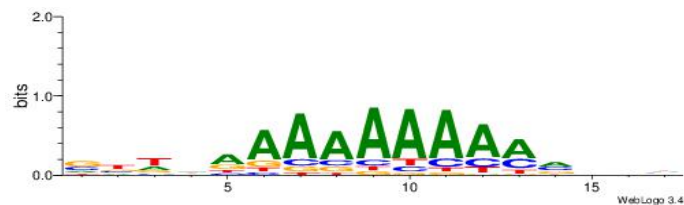
HHVBYTTTTTTTTDDVV-
-ABAAAAAAWHAAAAARAW

Original motif

Consensus sequence: VBDDAAAAAAAMVBHH

Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



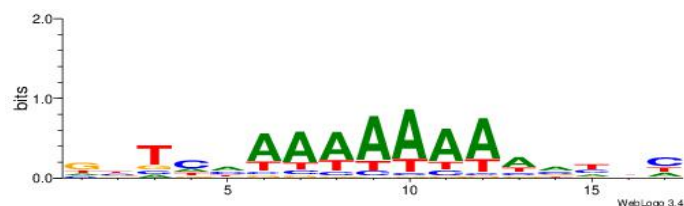
Motif ID: [UP00090](#)
 Motif name: Elf3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.538813

Alignment:

DBTHHAAAAAAAAAVVDH-
 ABAAAAAWhAAAAARAW

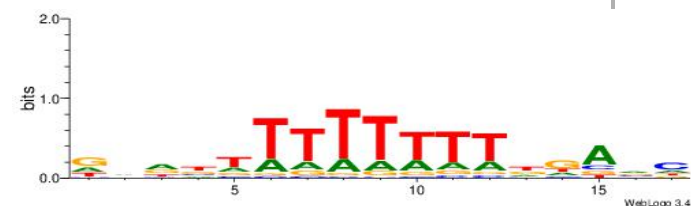
Original motif

Consensus sequence: DBTHHAAAAAAAAAVVDH



Reverse complement motif

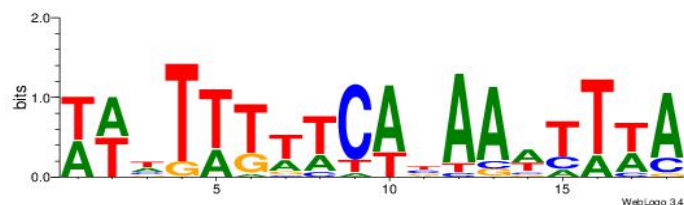
Consensus sequence: DDHBTTTTTTTTTHDAVH



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

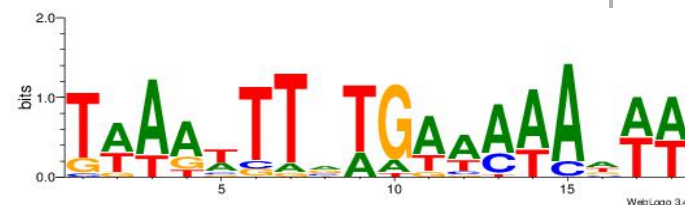
Original motif

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

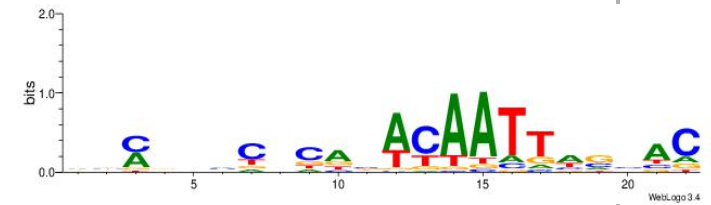
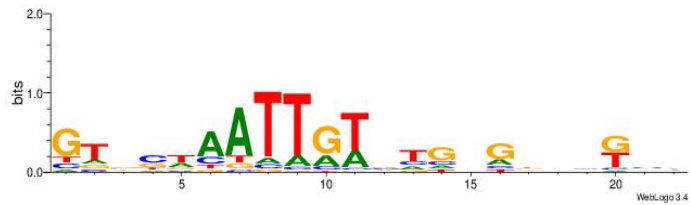
WWHTTTTTTCABAAWTTWA----

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



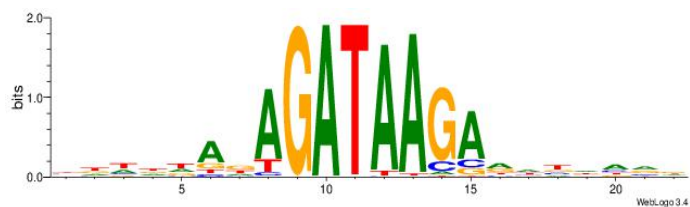
Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.065044

Alignment:

```
BDHDDADAGATAAGADHBDHVD
---WWHTTTTTTCABAAWTTWA-
```

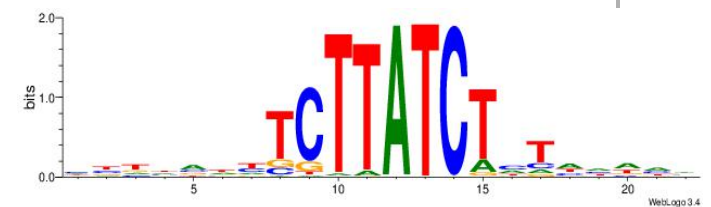
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00032](#)

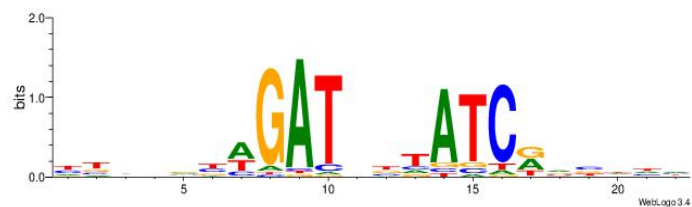
Motif name: Gata3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.0697095

Alignment:

HBHDVBWGATHBTATCRVBHHH
----WWHTTTTTCABAAWTTWA

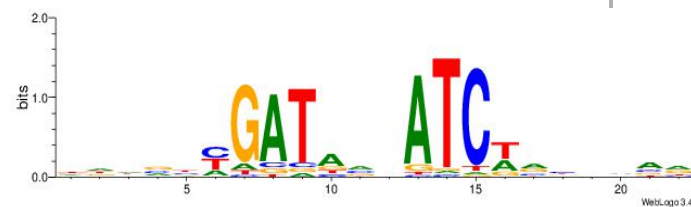
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



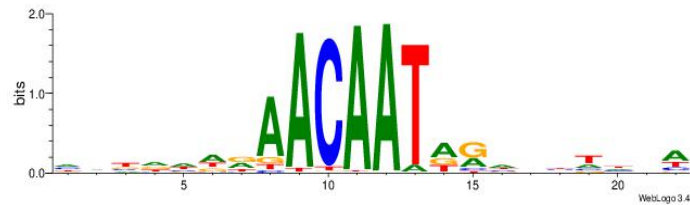
Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.071426

Alignment:

WBHHHHHMDATTGTTDHDVHH
TWAAWTTVTGAAAAAHWW----

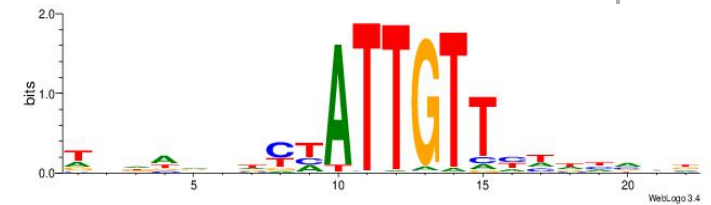
Original motif

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:

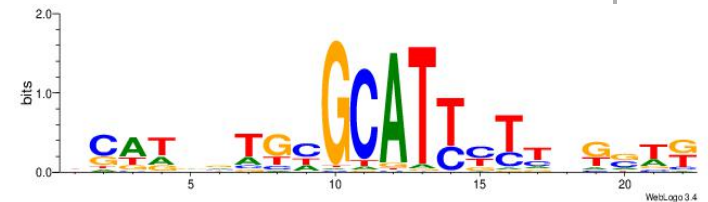
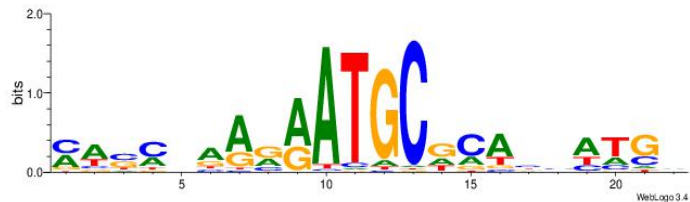
DCATDBTGHGCATKMTTBRSWR
--WWHTTTTTCABAAWTTWA--

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR

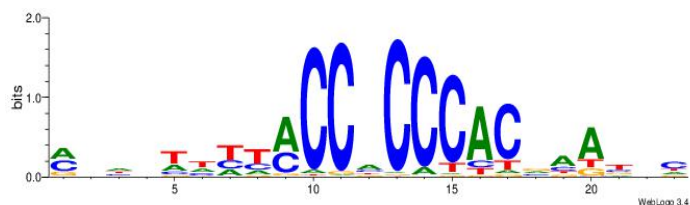


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0755032

Alignment:
 MHHHWHYTMCCCHCCCACVAABVH
 --WWHTTTTTCABAAWTTWA---

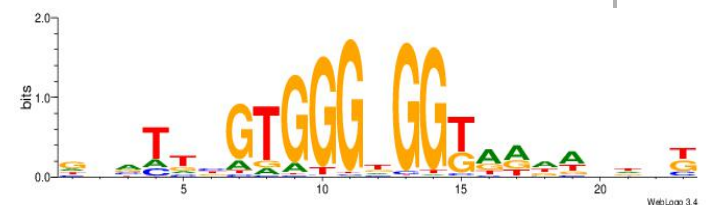
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00540](#)

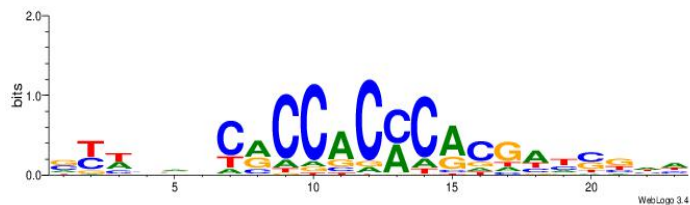
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 18
 Similarity score: 0.078731

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -WWHTTTTTCABAAWTTWA----

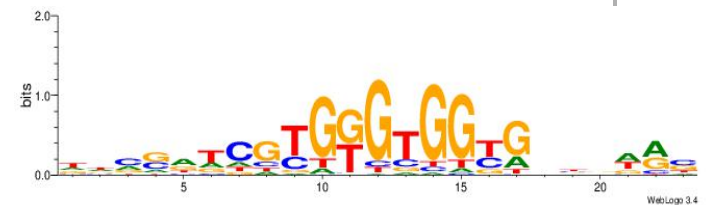
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

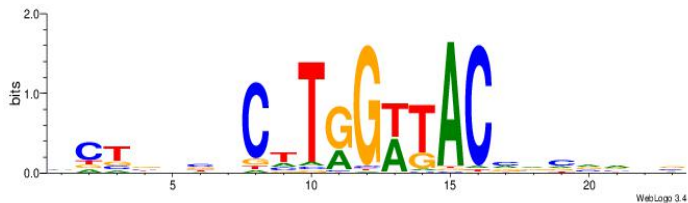


Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18

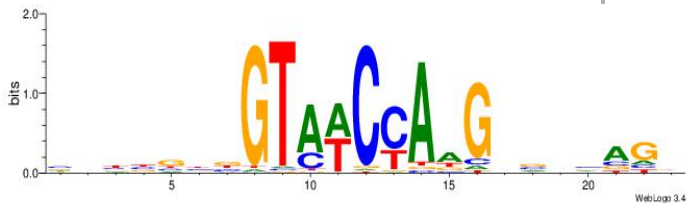
Similarity score: 0.0794414

Alignment:
VCTBHBVCTTGGWTACVVVVVDB
----TWAAWTTVTGAAAAHWW--

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB

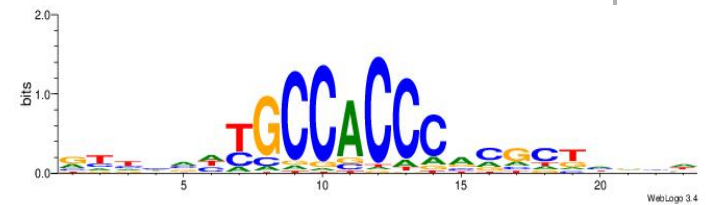
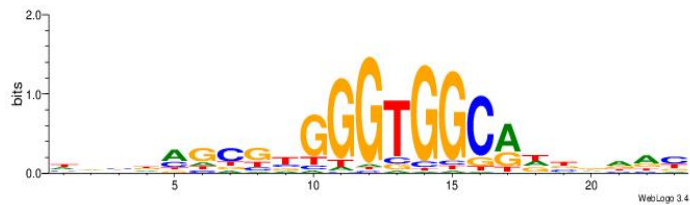


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 18
Similarity score: 0.0796126

Alignment:
BDDHVDKGCCACCCVCGCTDBVH
-WWHTTTTTCABAAWTTWA----

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

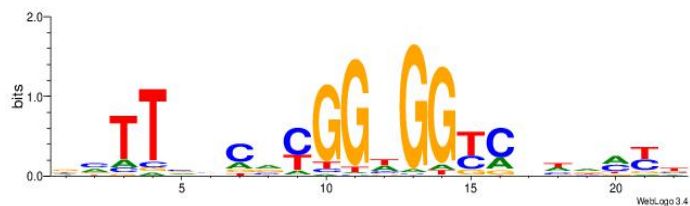
Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



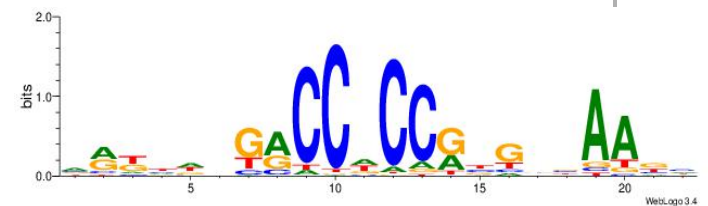
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0797884

Alignment:
 DVTTVVCVYGGHGGYCHHDMYB
 ---TWAAWTTVTGAAAAHWW-

Original motif
 Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



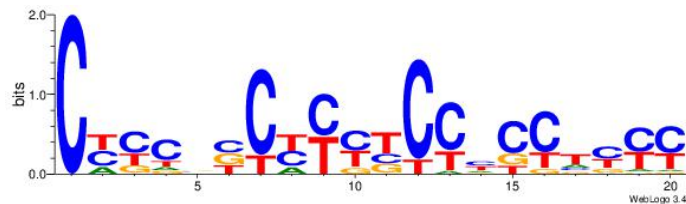
Reverse complement motif
 Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH



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

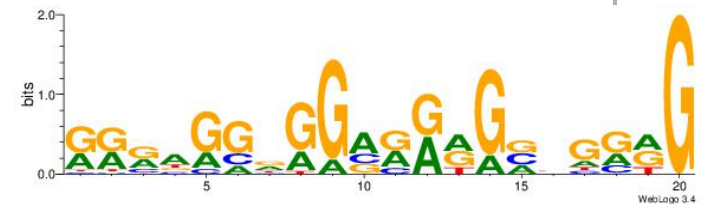
Original motif

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:

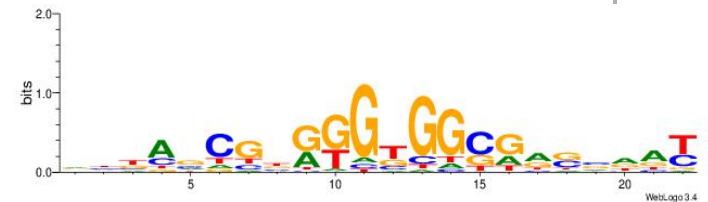
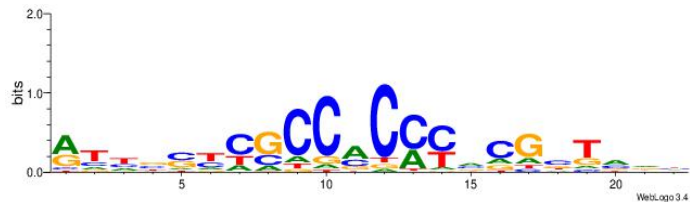
```
HDBABCGBKRGYGGCGMSBHAK
--KKKAGGDGGAKKMGBBGKMG
```

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

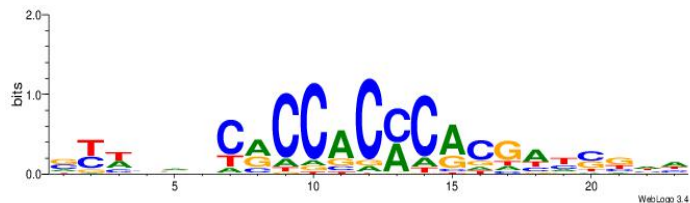
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



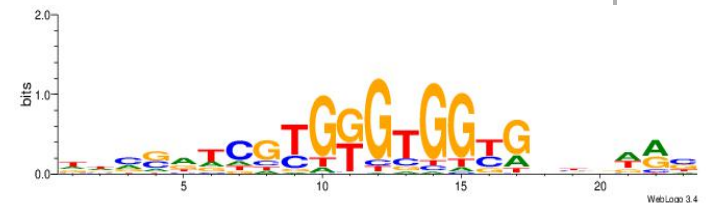
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0585594

Alignment:
 VYWVVHCRCCACMCACGAHSBHH
 CYVCBBCYYYTCCHCCTYYY---

Original motif
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
 Consensus sequence: HHBSHTCGTGRGTGGK GDBVWMV



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

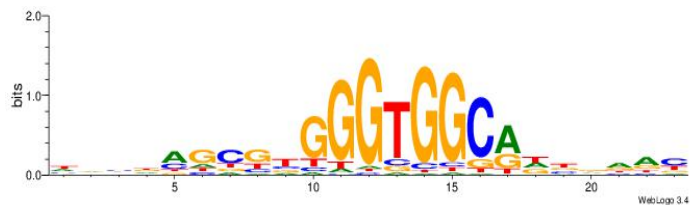
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0625384

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 -KKKAGGDGGAKKMGBBGKMG--

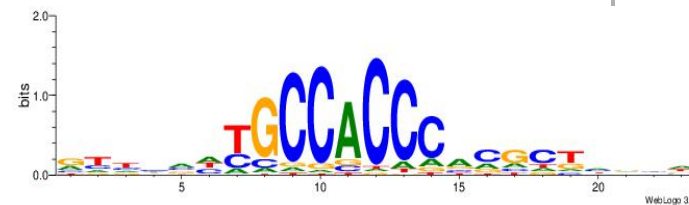
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDPGCCACCCVCGCTDBVH



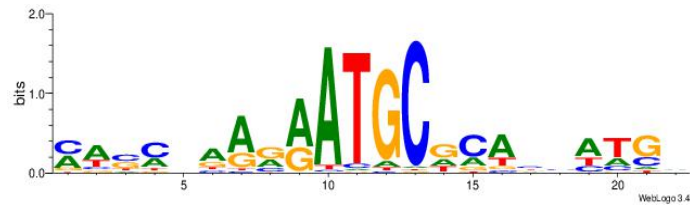
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0639685

Alignment:

DCATDBTGHGCATKMTTBRSWR
--KKKAGGDGGAKKMGBBGKMG

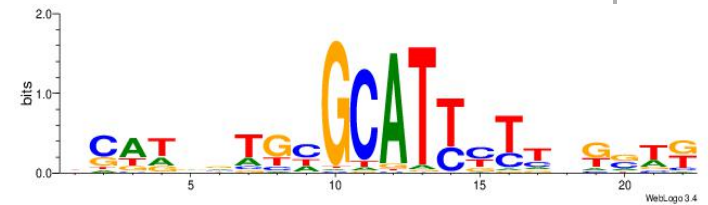
Original motif

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:

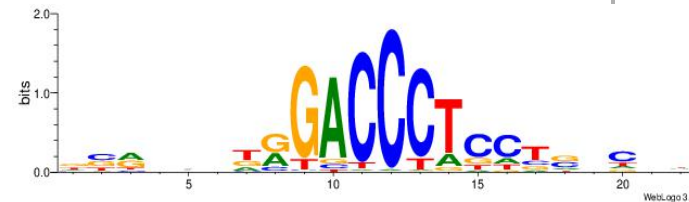
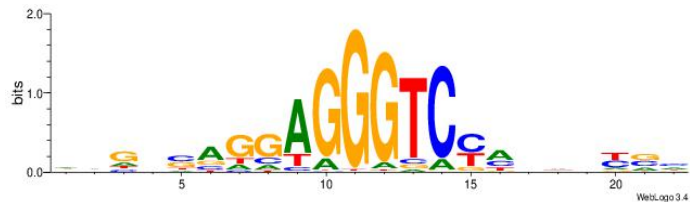
DVMHHDHKGACCCTCCTSVCBH
CYVCBBCYYYTCCHCCTYYY--

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

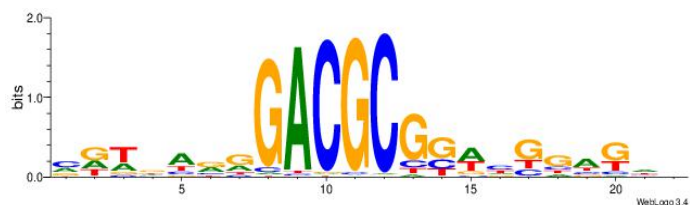
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



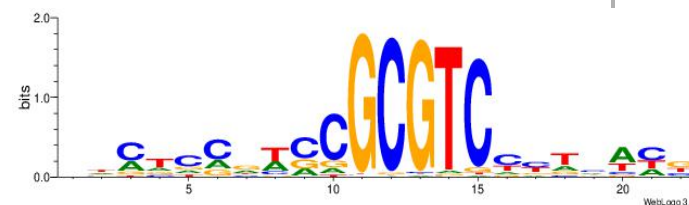
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0649332

Alignment:
 VHYTCCDWCCGCGTCMMTHWHV
 CYYCBBCYYYTCCHCCTYYY--

Original motif
 Consensus sequence: VDW DARRGACGCGGWHGGA KHV



Reverse complement motif
 Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00034](#)

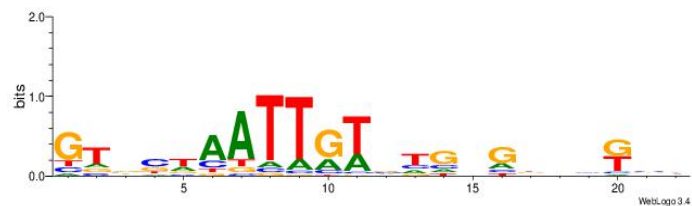
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0652647

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 --KKKAGGDGGAKKMGBBGKMG

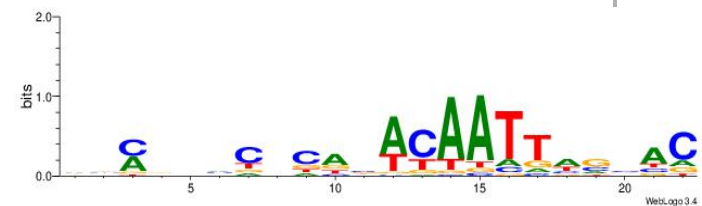
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

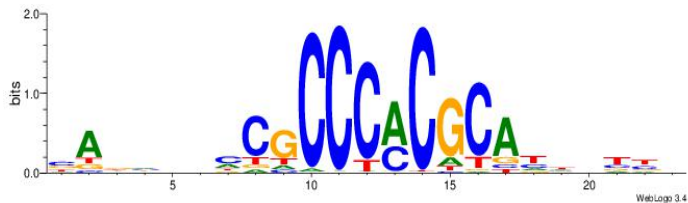


Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20

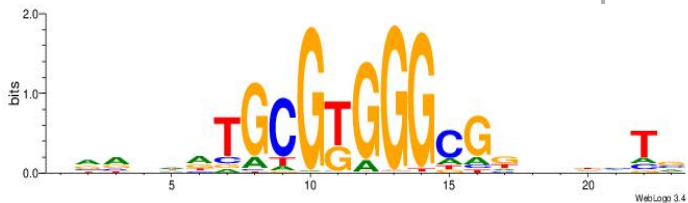
Similarity score: 0.0703354

Alignment:
VVVDHHTGCGYGGGCGDHVHHTB
--KKKAGGDGGAKKMGBBGKMG--

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

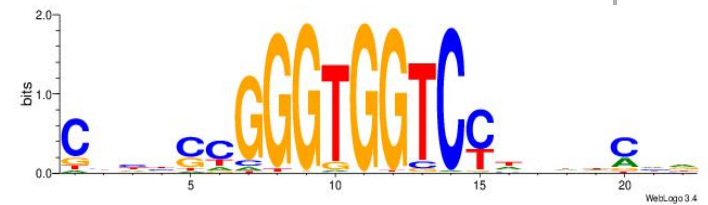
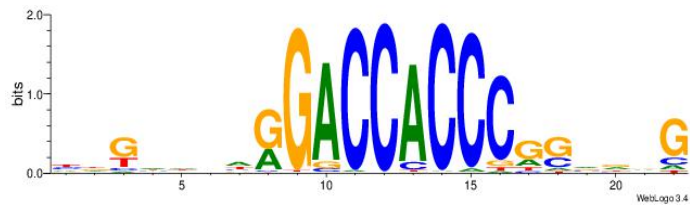


Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0706876

Alignment:
HDGHHBHRGACCACCCGSVDVG
KKKAGGDGGAKKMGBBGKMG--

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG

Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



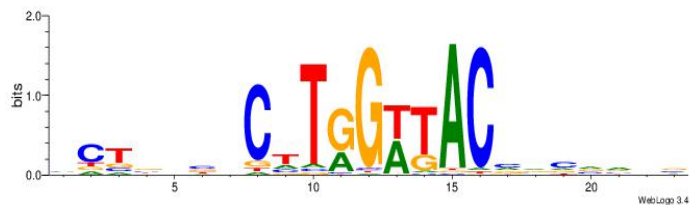
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0710664

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
 --KKKAGGDGGAKKMGBBGKMG--

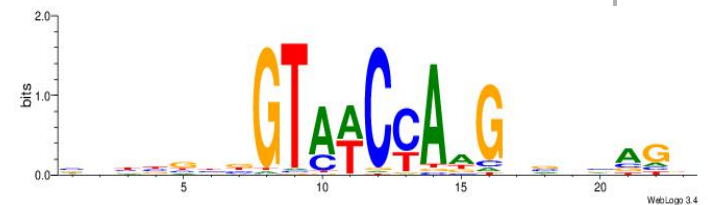
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

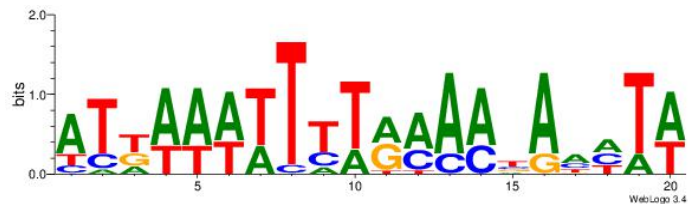
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



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

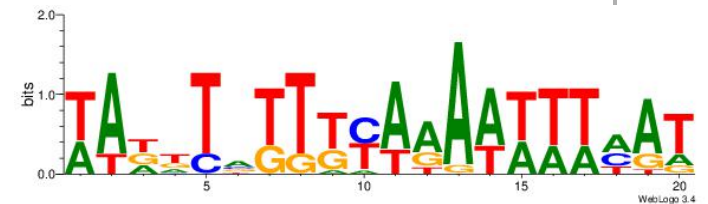
Original motif

Consensus sequence: ATKAAWTTTTRMAABAHTW



Reverse complement motif

Consensus sequence: WAHHTVTTYKAAAATTTAT



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:

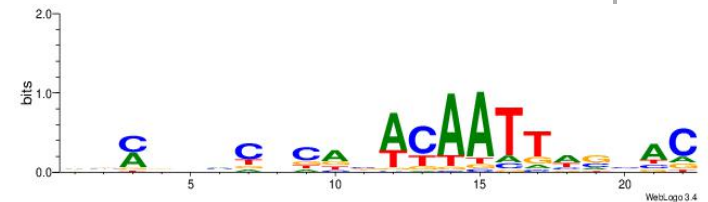
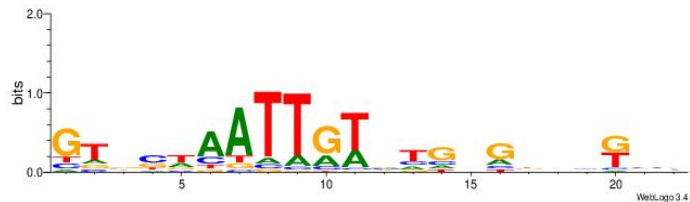
VVYDDDCHCAVACAATTDBVAC
-WAHHTVTTYKAAAATTTAT-

Original motif

Consensus sequence: GTVBDAATTGVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

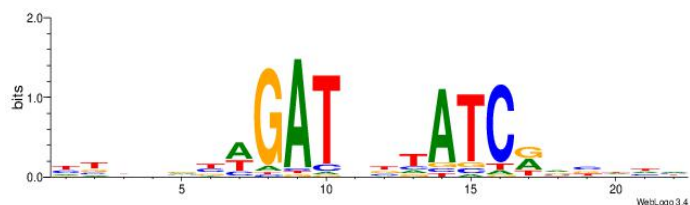


Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0642682

Alignment:
 HHHBBMGATAVHATCWVVDHVH
 -ATKAAWTTTTTTRMAABAHHTW-

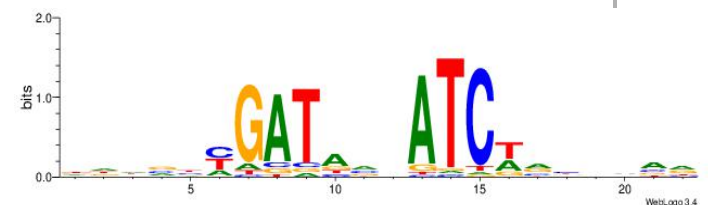
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Motif ID: [UP00034](#)

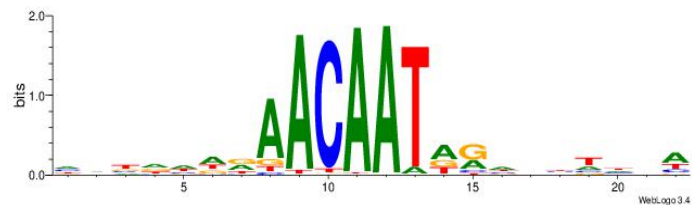
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.064945

Alignment:

WBHHHHHMDATTGTTDHDVHH
 --WAHHTVTTYKAAAATTRAT

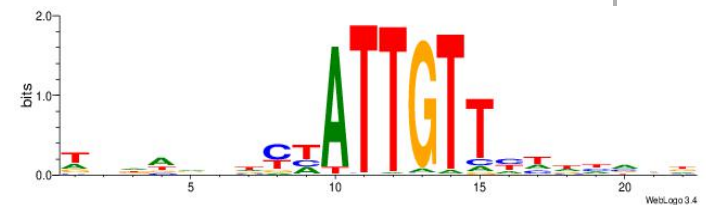
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH

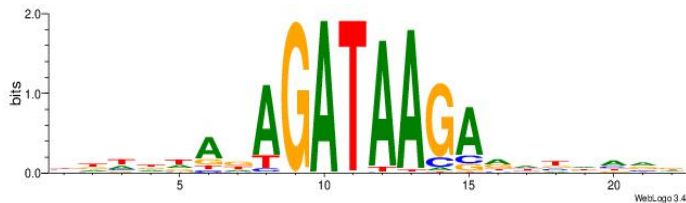


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20

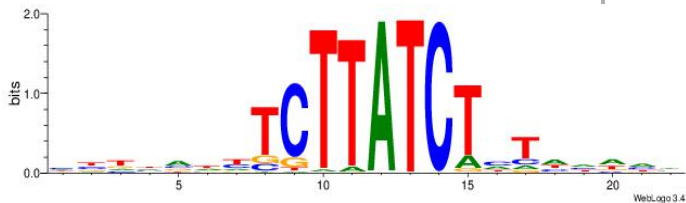
Similarity score: 0.0651681

Alignment:
HBHDVHDTCTTATCTHTDDHDV
ATKAAWTTTTRMAABAHHTW--

Original motif
Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV

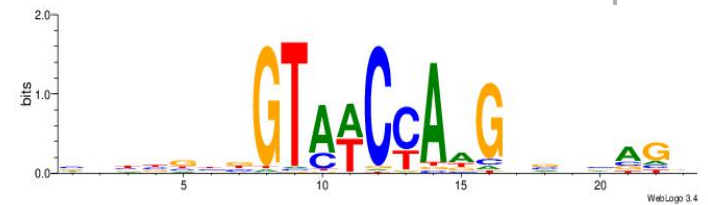
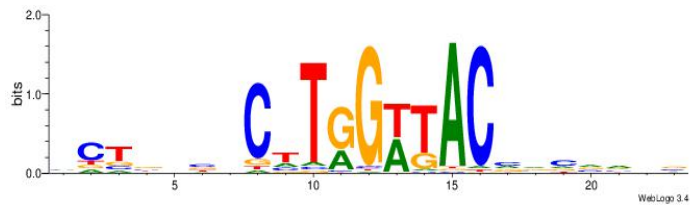


Motif ID: [UP00098](#)
Motif name: Rfx3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0670788

Alignment:
BDBBVBVGTAWCCAAGVBHBAGB
-ATKAAWTTTTRMAABAHHTW--

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB

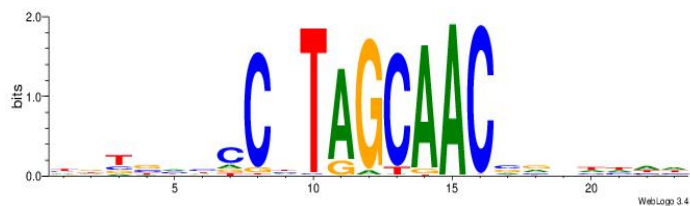
Reverse complement motif
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



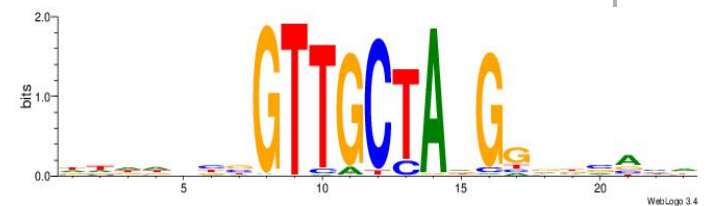
Motif ID: [UP00098](#)
 Motif name: Rfx3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.070823

Alignment:
 HDTBHHCCHTAGCAACVVDHHHH
 -ATKAAWTTTTRMAABAHHTW--

Original motif
 Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH



Reverse complement motif
 Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



Motif ID: [UP00528](#)

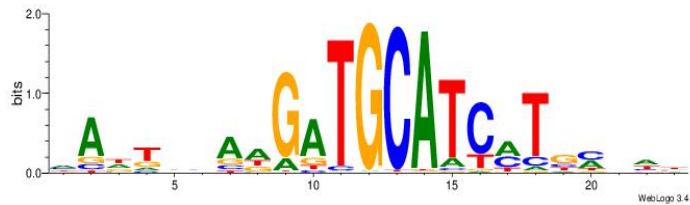
Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0734735

Alignment:

VHVRCAYGATGCATCDTVVADTH
 WAHHTVTTYKAAAATTRAT---

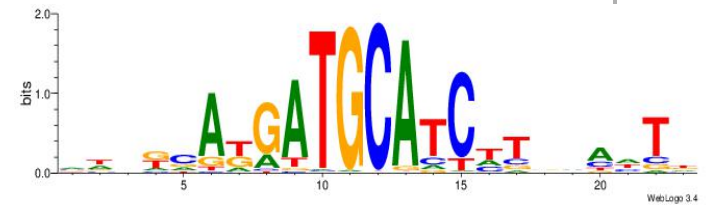
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



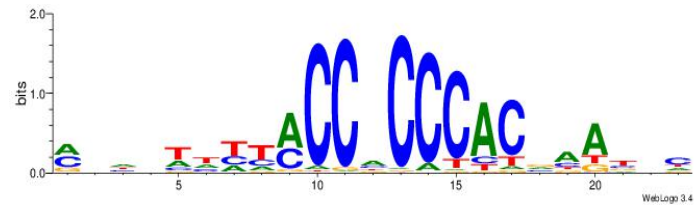
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0743251

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
ATKAAWTTTTRMAABAHHTW---

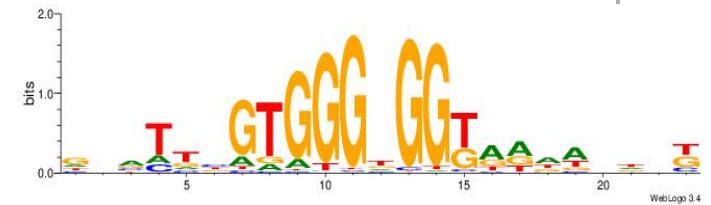
Original motif

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:

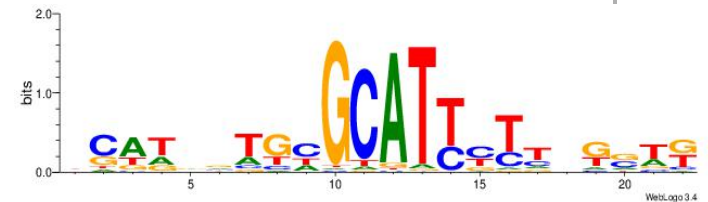
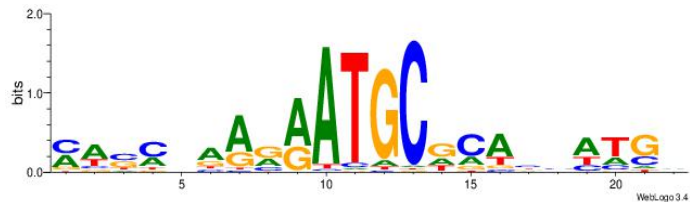
MWSMBAARRATGCD CABHATGD-
---ATKAAWTTTTRMAABAHHTW

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

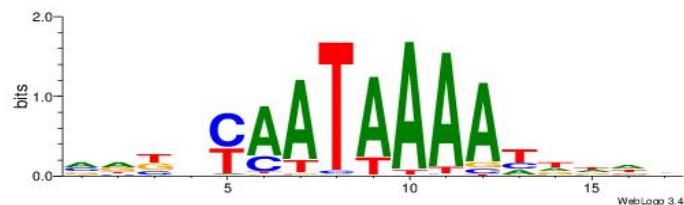
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



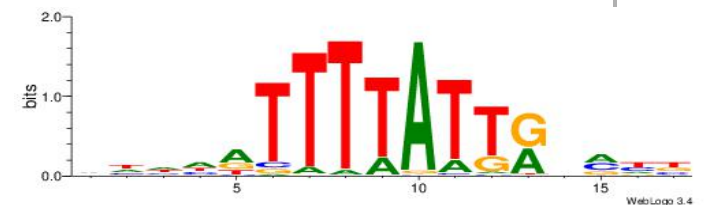
Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 17
 Similarity score: 1.54045

Alignment:
 ---HDDDATTTTATTKVRDB
 WAHHTVTTYKAAAATTTTAT-

Original motif
 Consensus sequence: VDKVYAATAAAATDDDH



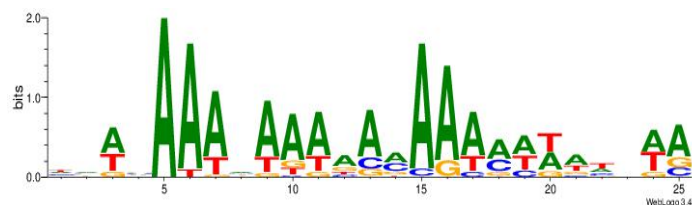
Reverse complement motif
 Consensus sequence: HDDDATTTTATTKVRDB



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

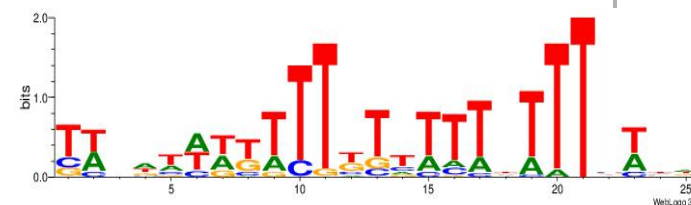
Original motif

Consensus sequence: HDWVAAAHAAAAAMAAAMWWWHBWA



Reverse complement motif

Consensus sequence: TWVHWWYTTTTYTTTTTHTTTTVWE



Best Matches for Motif ID 11 (Highest to Lowest)

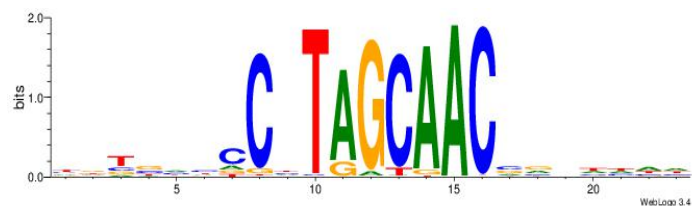
Motif ID:	UP00098
Motif name:	Rfx3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	23
Similarity score:	0.0760601

Alignment:

```
--HDTBHHCCHTAGCAACVVDHHHH
HDWVAAAHAAAAAMAAAMWWWHBWA--
```

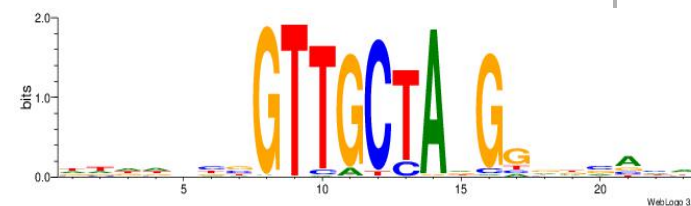
Original motif

Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH



Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



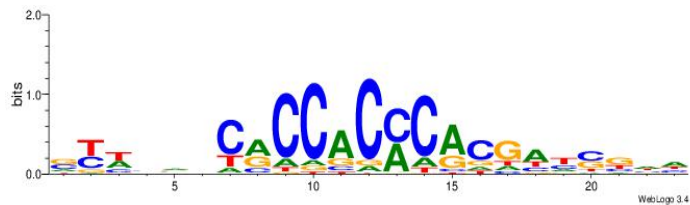
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 23
Similarity score: 0.0803516

Alignment:

VYWVVHCRCCACMCACGAHSBHH--
HDWVAAAHA AAAAAMAAAMWWWHBWA

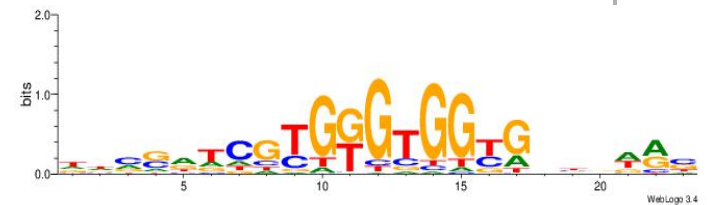
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



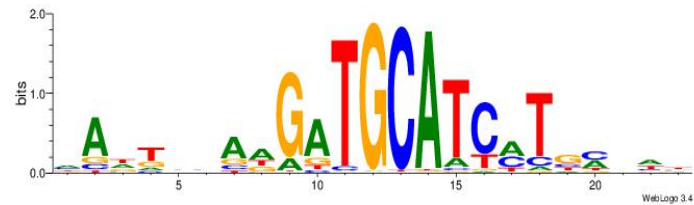
Motif ID: [UP00528](#)
Motif name: Foxm1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 23
Similarity score: 0.0808735

Alignment:

HADTBVADGATGCATCMTGMVHB--
-HDWVAAAHAAAAAAMAAAMWWWHBWA

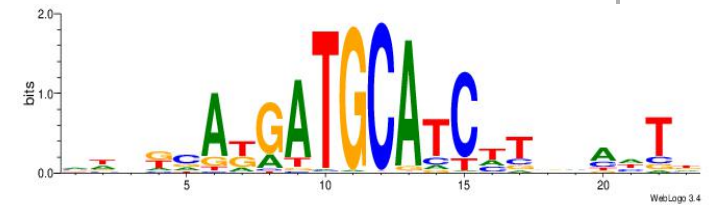
Original motif

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:

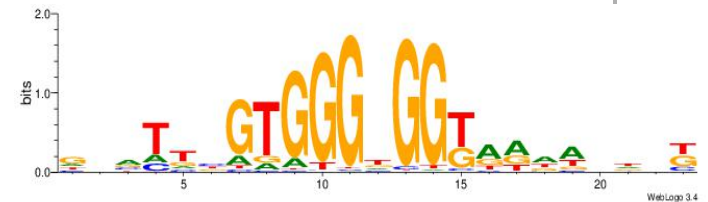
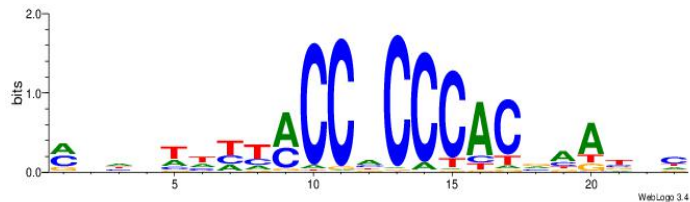
--MHHHWHYTMCCCHCCCACVAABVH
HDWVAAAHAAAAAAMAAAMWWWHBWA--

Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH

Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



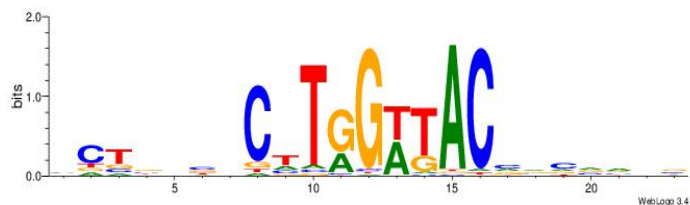
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0813067

Alignment:

VCTBHBVCTTGGWTACVVVVVDB--
 HDWVAAAHA AAAAAMAAAMWWWHBWA

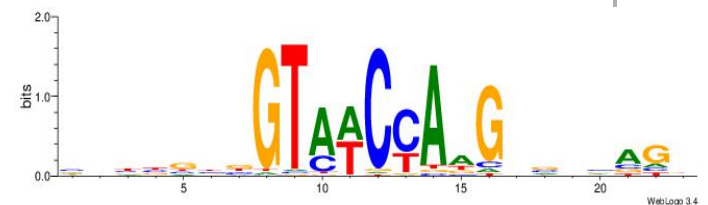
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



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

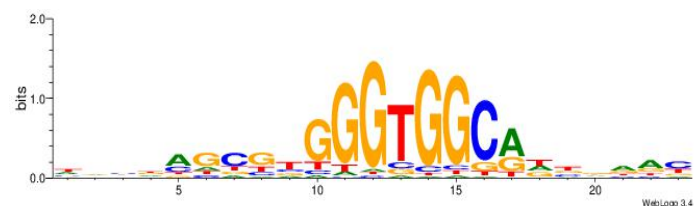
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0869107

Alignment:

BDDHVDKGCCACCCVCGCTDBVH--
 -TWVHWWYTTTYTTTTTHTTTVWBH

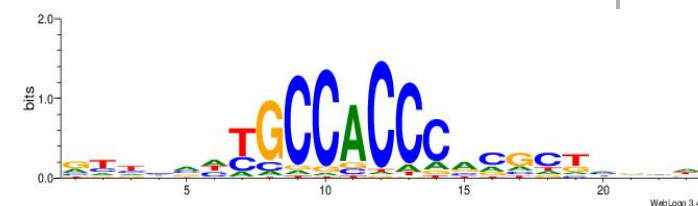
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



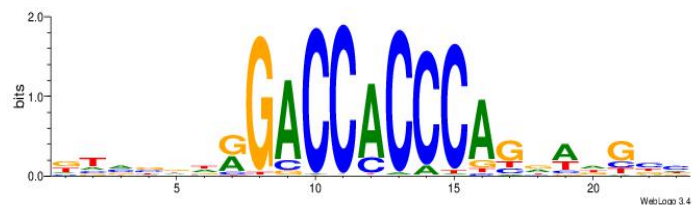
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0877809

Alignment:

DBCDWHCTGGGTGGTCMDHBBAH--
 -TWVHWWYTTTTYTTTTTHTTTTVWBH

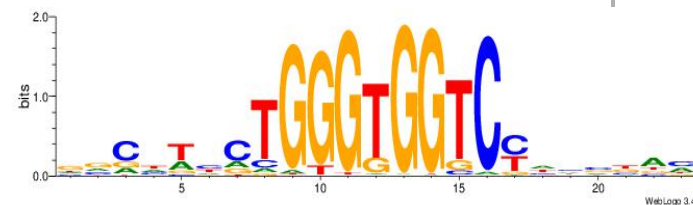
Original motif

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:

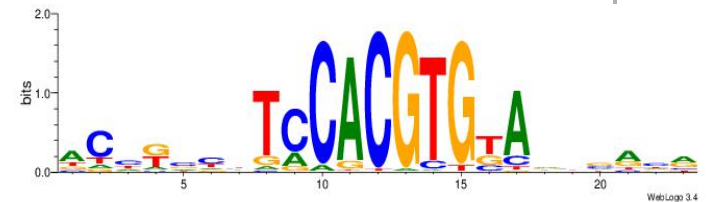
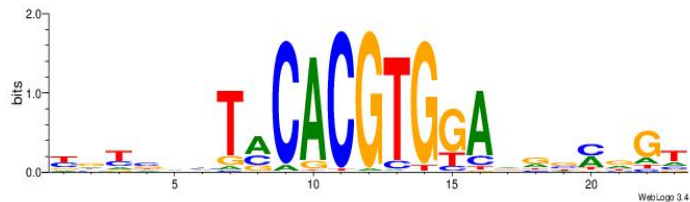
--ACHRBHDTCCACGTGYAHBMBHM
 TWVHWWYTTTTYTTTTTHTTTTVWBH

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMBHM



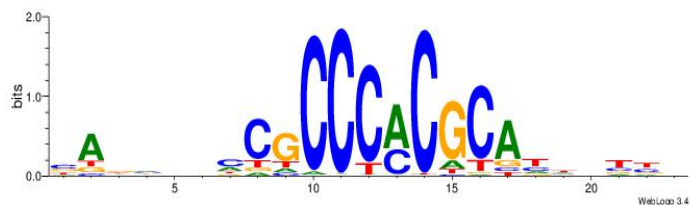
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0891795

Alignment:

BADHBDHCGCCCMCGCAHHDBBV--
 -HDWVAAAHAAAAAAMAAAMWWWHBWA

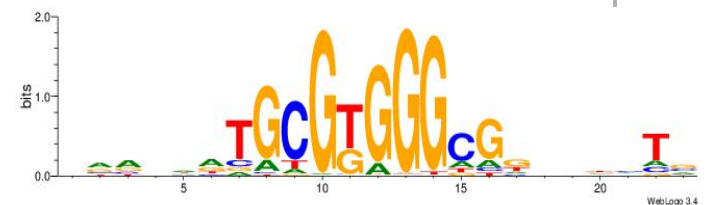
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



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

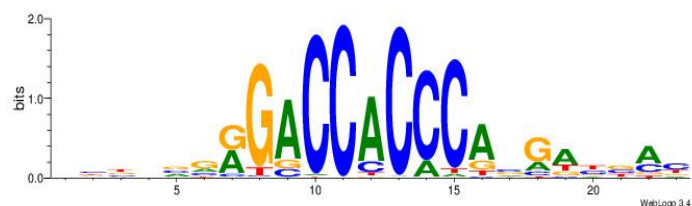
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0895093

Alignment:

BBBDVVRGACCACCCAVGABBAB--
 HDWVAAAHAAAAAMAAAMWWWHBWA

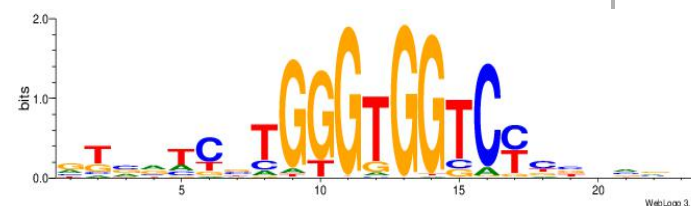
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

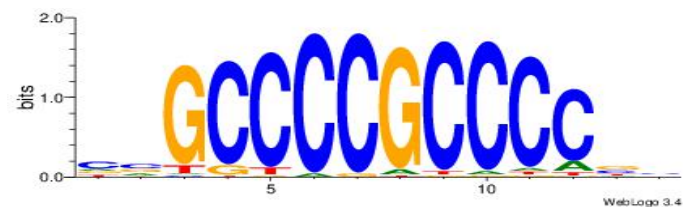
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



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

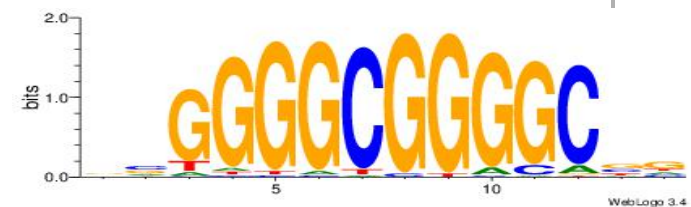
Original motif

Consensus sequence: HVGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



Best Matches for Motif ID 12 (Highest to Lowest)

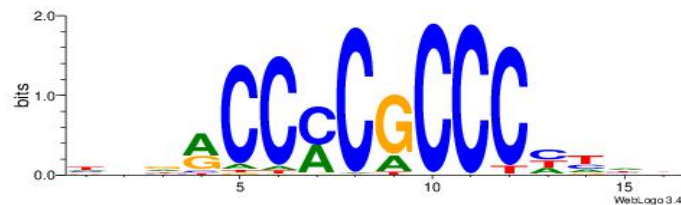
Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0

Alignment:

HBDRCCMCGCCCHHHD
-HVGCCCGCCCCBB-

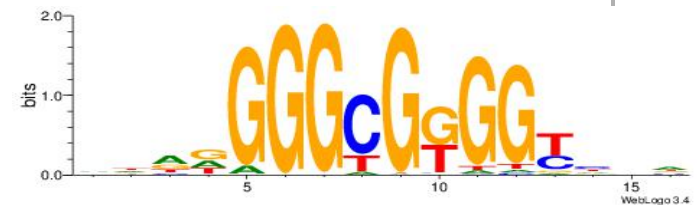
Original motif

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

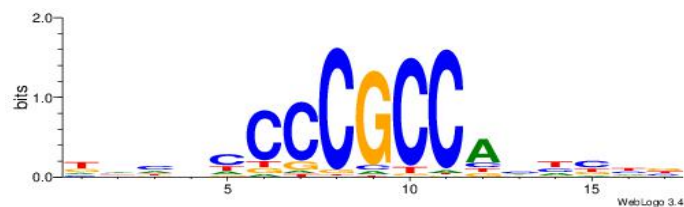
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0106621

Alignment:

```
DHHBCCCCGCCAHHBHB
-HVGCCCCGCCCCBB--
```

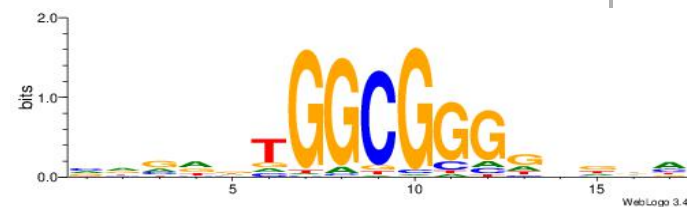
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



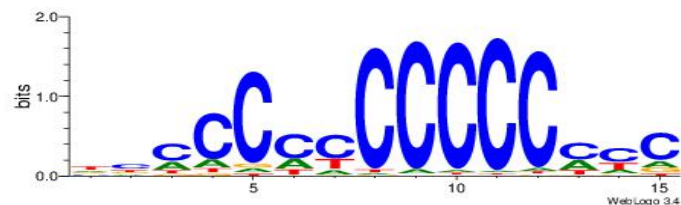
Motif ID:	UP00021
Motif name:	Zfp281_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.017761

Alignment:

DBCCCCCCCCCMYC
-HVGCCCGCCCCBB

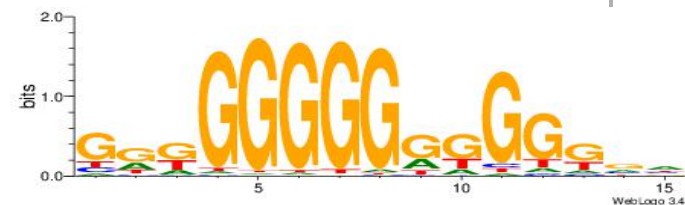
Original motif

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:

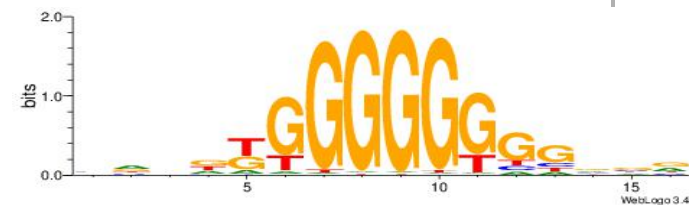
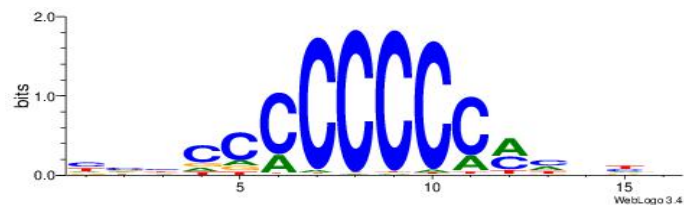
HVBCCCCCCCCMHHHB
HVGCCCGCCCCBB--

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

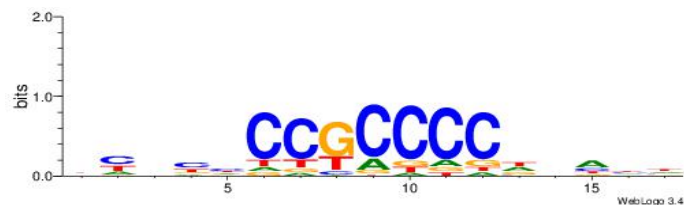
Consensus sequence: BHHDYGGGGGGGGGBVD



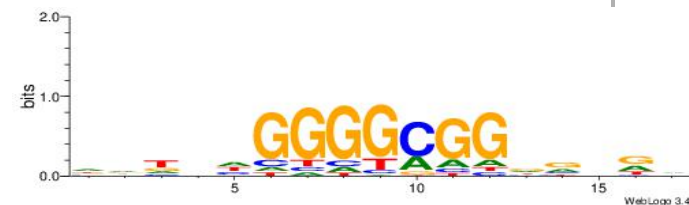
Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0225788

Alignment:
 BHHBHCCGCCCCDHHHH
 HVGCCCGCCCCBB---

Original motif
 Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif
 Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00002](#)
 Motif name: Sp4_secondary

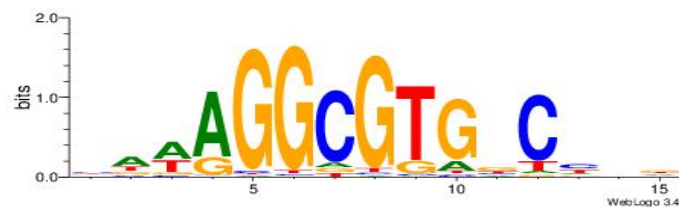
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0277585

Alignment:

```
BDWAGGCGTGBCHHD
BBGGGGCGGGGCVD-
```

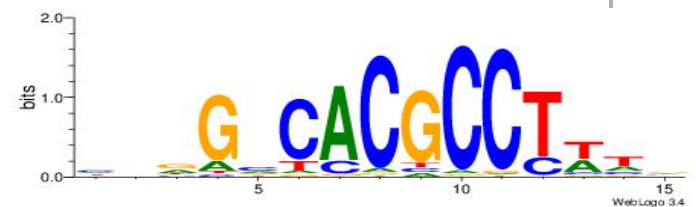
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



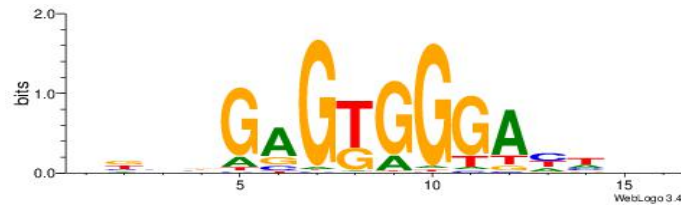
Motif ID:	UP00007
Motif name:	Egr1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0318885

Alignment:

BHHDTCCTCACTCBDBV
-HVGCCCGCCCCBB-

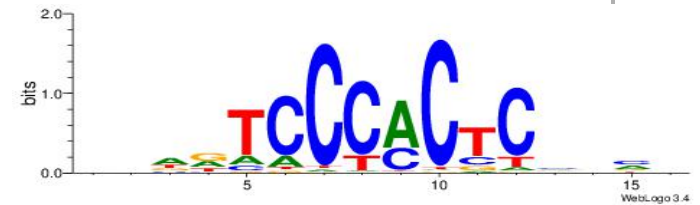
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



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:

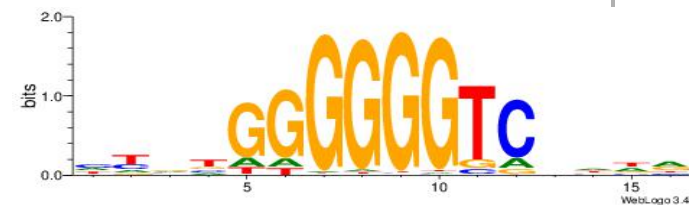
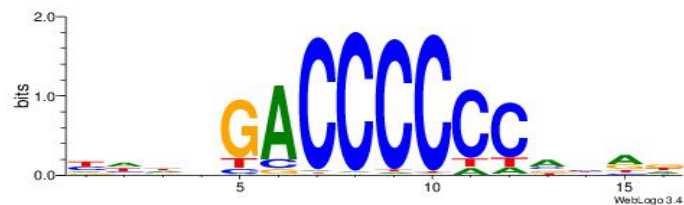
HKBBGGGGGGTCTVHHH
BBGGGGCGGGGCVD--

Original motif

Consensus sequence: HHHVGACCCCCVBRD

Reverse complement motif

Consensus sequence: HKBBGGGGGGTCTVHHH

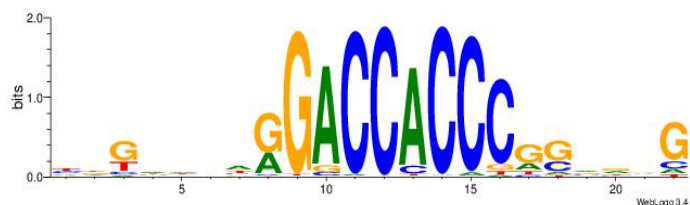


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 14
 Similarity score: 0.0334003

Alignment:
 CVHBSCGGGTGGTCMHVHHCDH
 ---BBGGGGCGGGGCVD-----

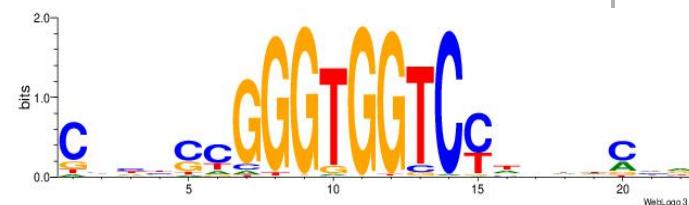
Original motif

Consensus sequence: HDGHHBHRGACCACCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00539](#)

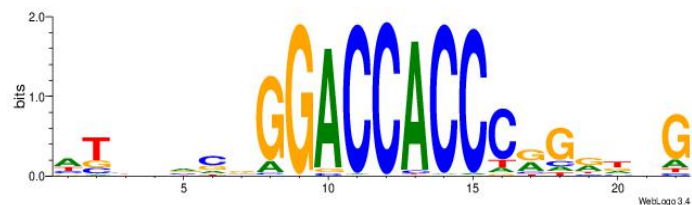
Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0351614

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 ---BBGGGGCGGGGCVD-----

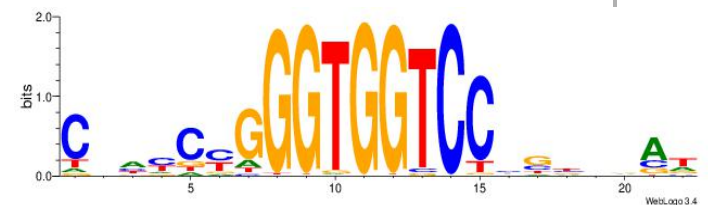
Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



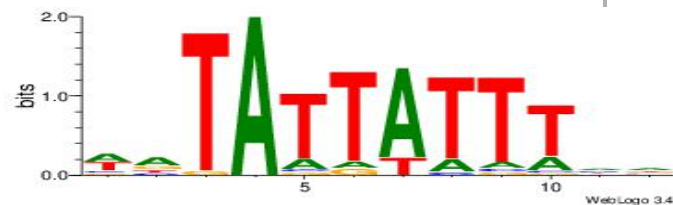
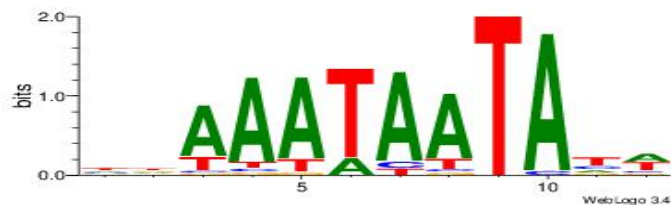
Dataset #: 2 Motif ID: 13 Motif name: tkAAATAATAtw

Original motif

Consensus sequence: HDAAATAATAHW

Reverse complement motif

Consensus sequence: WHTATTATTTDH



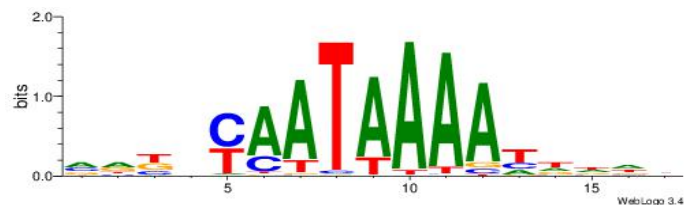
Best Matches for Motif ID 13 (Highest to Lowest)

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--

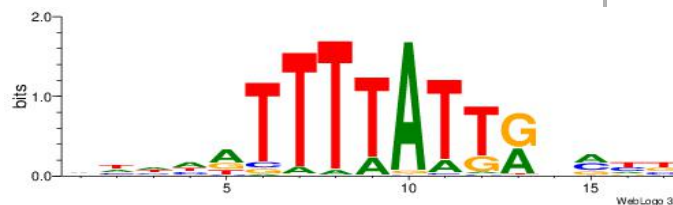
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



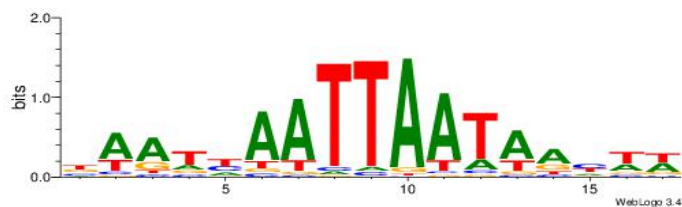
Motif ID: [UP00244](#)
 Motif name: Tlx2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00646023

Alignment:

BAATHAATTAATAAHWW
 ---HDAAATAATAHW--

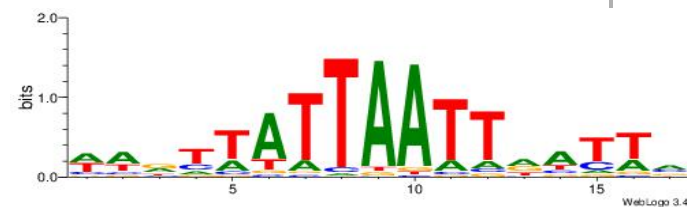
Original motif

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

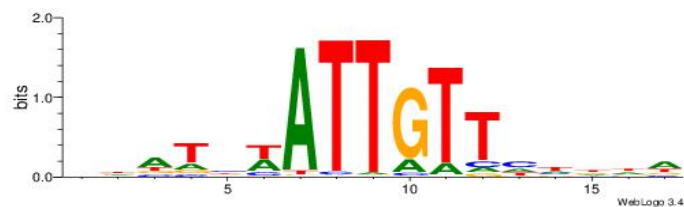
Number of overlap: 12
Similarity score: 0.0120674

Alignment:

DDDHDAACAATWBATDD
--HDAAATAATAHW---

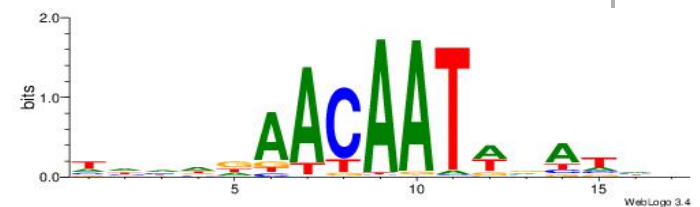
Original motif

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

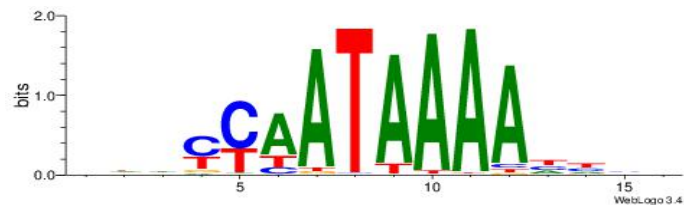
Alignment:

HDHHTTTTATTKKHDD
--WHTATTATTTDH--

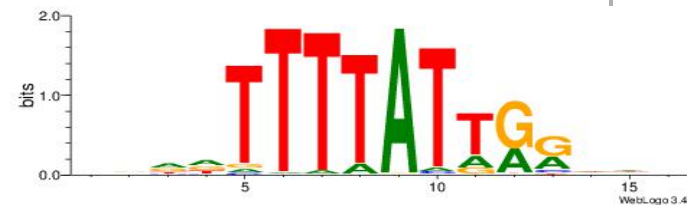
Original motif

Reverse complement motif

Consensus sequence: HDHYAATAAAAHHHH



Consensus sequence: HDHHTTTTATTKKHDD



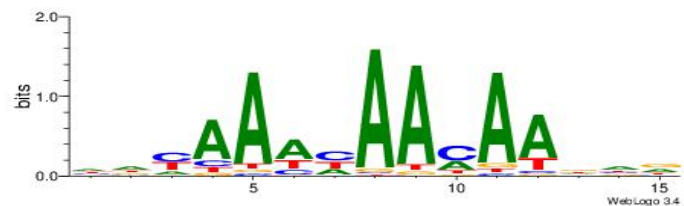
Motif ID: [UP00037](#)
Motif name: Zfp105_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0129559

Alignment:

HHHTTRTTDTTTKDH
--WHTATTATTTDH--

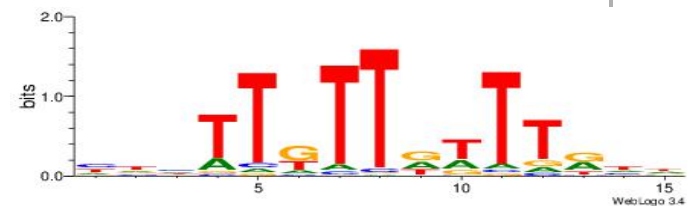
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



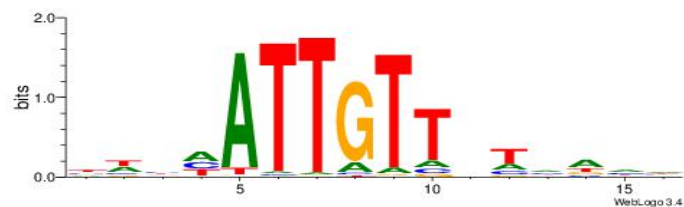
Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0130138

Alignment:

HHDHABAACAATHBWV
 ---HDAAATAATAHW-

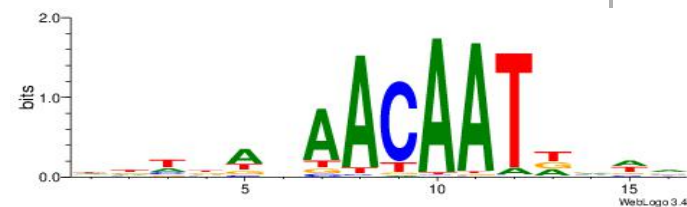
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



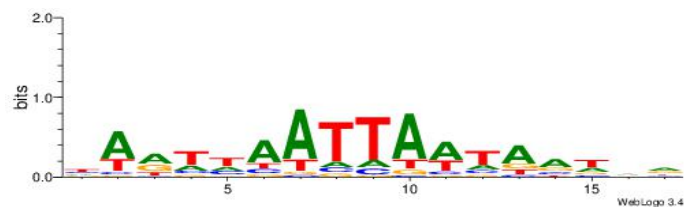
Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

Number of overlap: 12
Similarity score: 0.0131034

Alignment:
HARTHAATTAWTAVDHD
---HDAAATAATAHW--

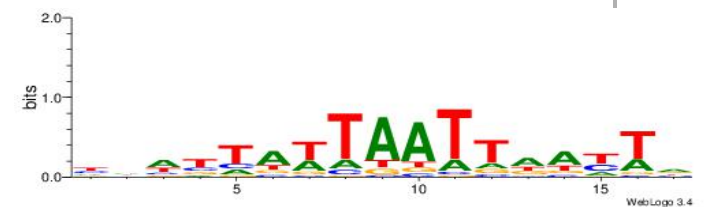
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTTHAKTH



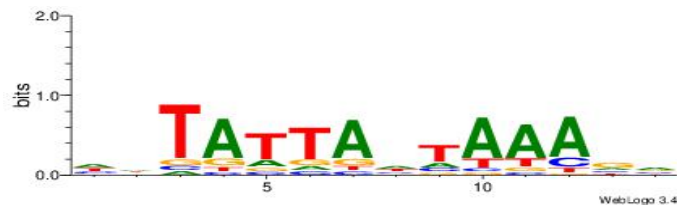
Motif ID: [UP00024](#)
Motif name: Glis2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0140433

Alignment:
BVTTTAHTAATADH
--HDAAATAATAHW

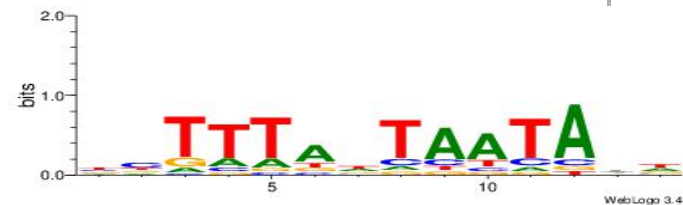
Original motif

Reverse complement motif

Consensus sequence: HDTATTAHTAAAVV



Consensus sequence: BVTTTAHTAATADH



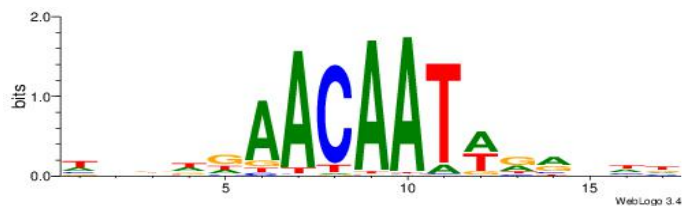
Motif ID: [UP00075](#)
Motif name: Sox15_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0143532

Alignment:

DHVKMWATTGTTHDHDH
---WHTATTATTTDH---

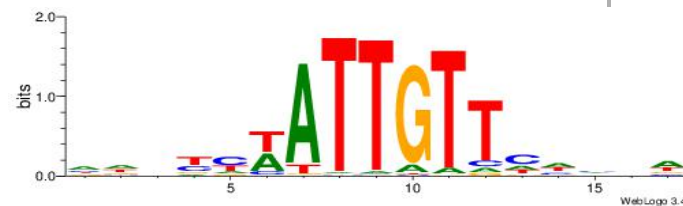
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



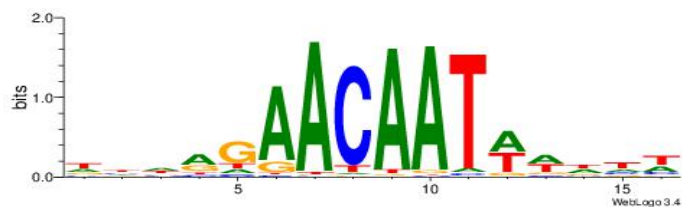
Motif ID: [UP00096](#)
 Motif name: Sox13_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.014607

Alignment:

DHDRGAACAATWWDHW
 --HDAAATAATAHW--

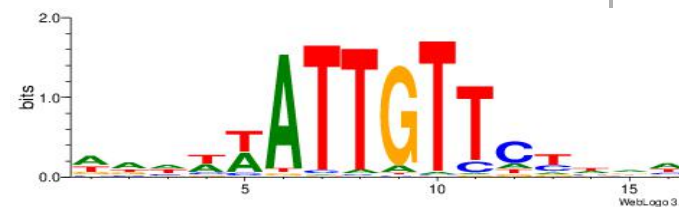
Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



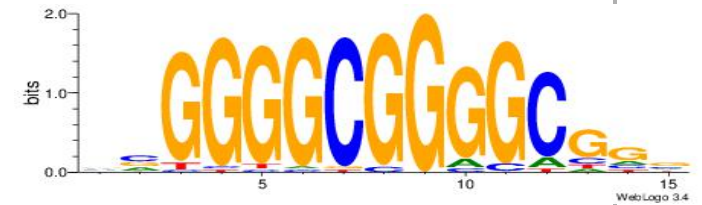
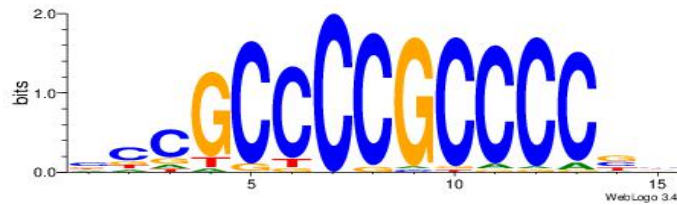
Dataset #: 2 Motif ID: 14 Motif name: cccGCCCCGCCCCsb

Original motif

Consensus sequence: BCCGCCCCGCCCCBB

Reverse complement motif

Consensus sequence: BBGGGGCGGGGCGGB



Best Matches for Motif ID 14 (Highest to Lowest)

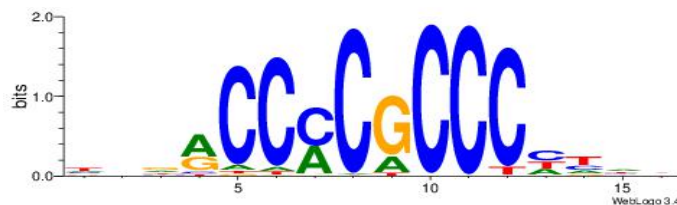
Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.00481788

Alignment:

HBDRCMCGCCCHHD
 BCGCCCCGCCCCBB-

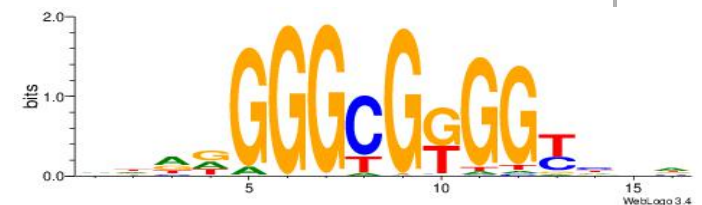
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

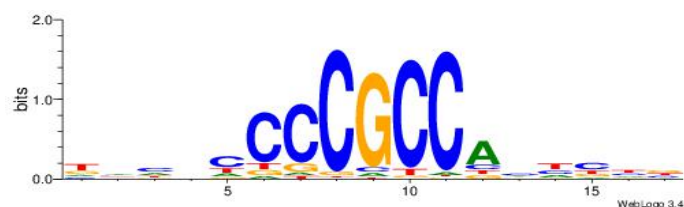


Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0108117

Alignment:
 DHHBCCCCGCCAHHBHB
 BCCGCCCCGCCCCBB--

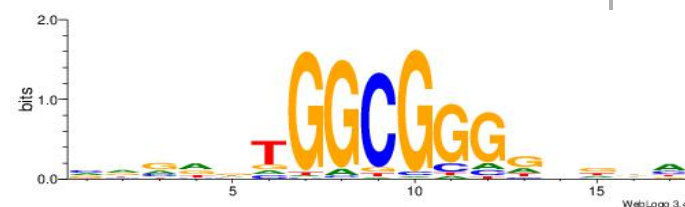
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD

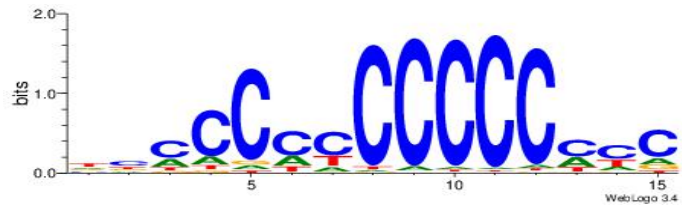


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 15

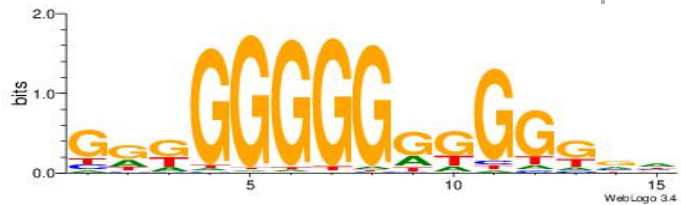
Similarity score: 0.0154152

Alignment:
GKRGGGGGGGGGGBD
BBGGGGCGGGGCGGB

Original motif
Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif
Consensus sequence: GKRGGGGGGGGGGBD

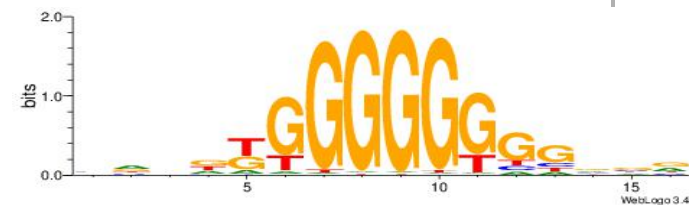
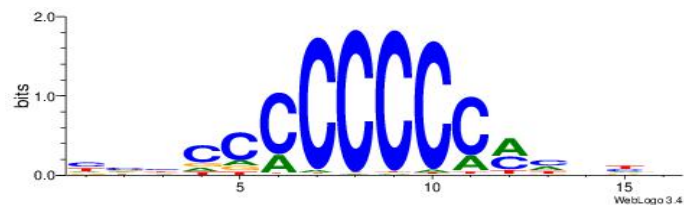


Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.018287

Alignment:
HVBCCCCCCCCMHHHB
BCCGCCCCGCCCCBB-

Original motif
Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif
Consensus sequence: BHHDYGGGGGGGGBVD

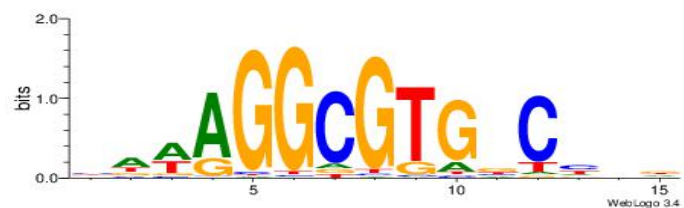


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0247447

Alignment:
 BDWAGGCGTGBCHHD
 BBGGGGCGGGGCGGB

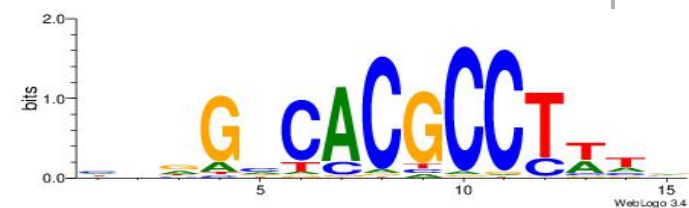
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00007](#)

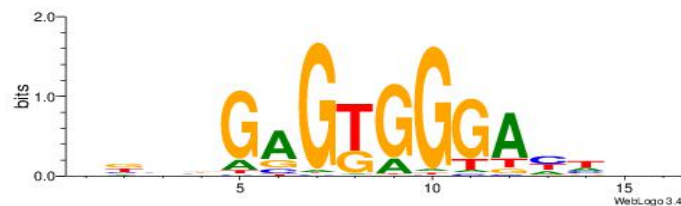
Motif name:	Egr1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0279869

Alignment:

BHHDTCCTCACTCBDBV
 BCCGCCCCGCCCCBB-

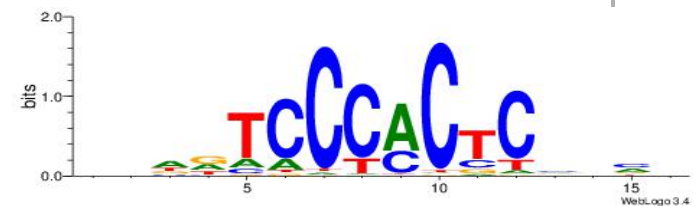
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV

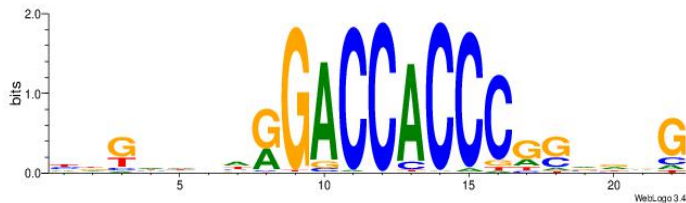


Motif ID:	UP00540
Motif name:	Gli3_v016060_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15

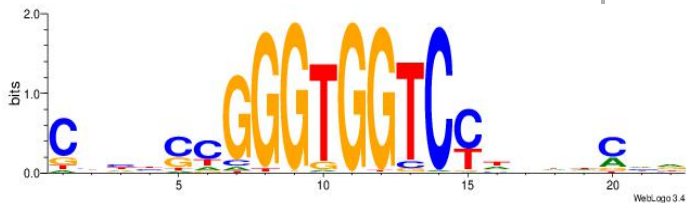
Similarity score: 0.0312526

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
---BBGGGGCGGGCGGB----

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH

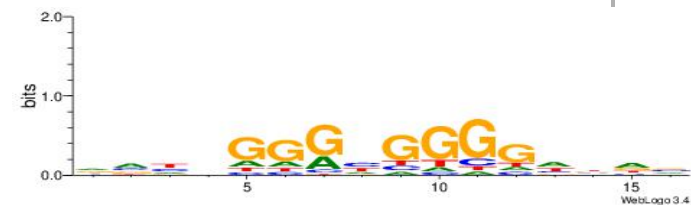
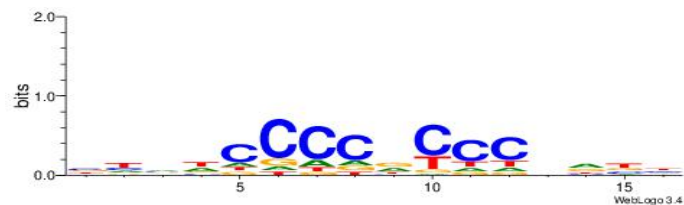


Motif ID: [UP00099](#)
Motif name: Ascl2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0318321

Alignment:
BHVDCCCCDCCCBDBH
BCCGCCCCGCCCCBB-

Original motif
Consensus sequence: BHVDCCCCDCCCBDBH

Reverse complement motif
Consensus sequence: HVDVGGGHGGGGDBHB



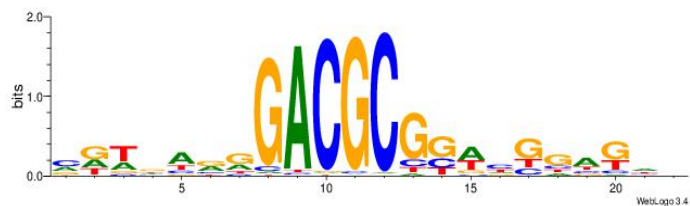
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 15
 Similarity score: 0.0340857

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 ----BCCGCCCCGCCCCBB----

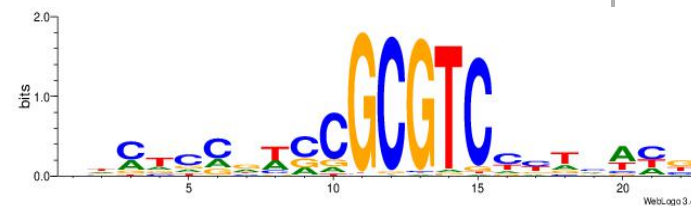
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



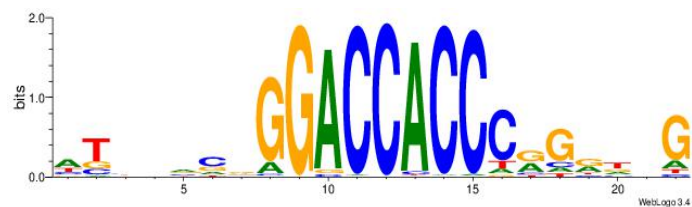
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 15
 Similarity score: 0.0345185

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 ---BBGGGGCGGGCGGB-----

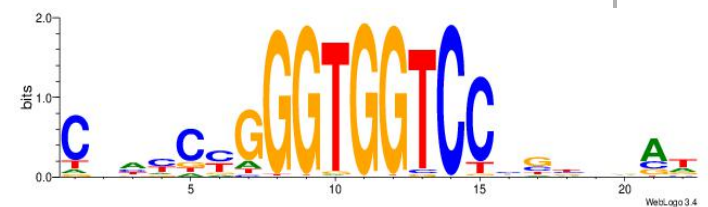
Original motif

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



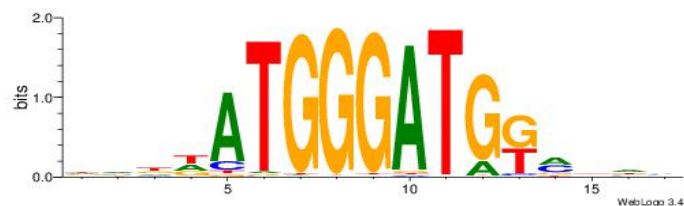
Best Matches for Motif ID 15 (Highest to Lowest)

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--

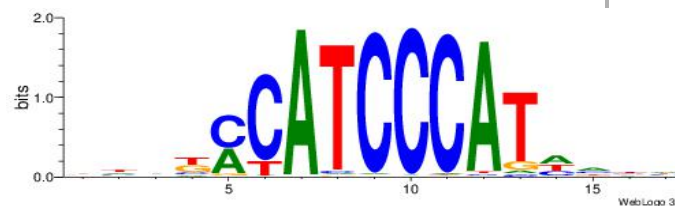
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



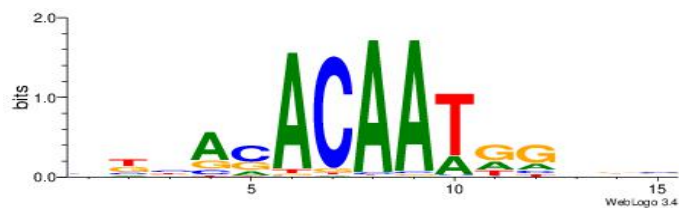
Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00658734

Alignment:

BKBASACAATRGHBB
 -DCAGCCAATVR---

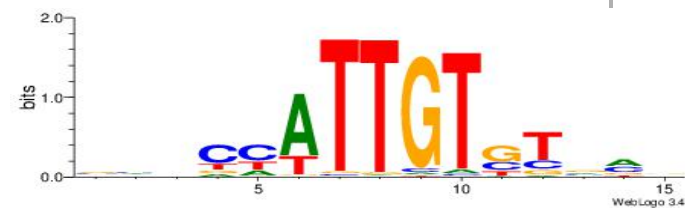
Original motif

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

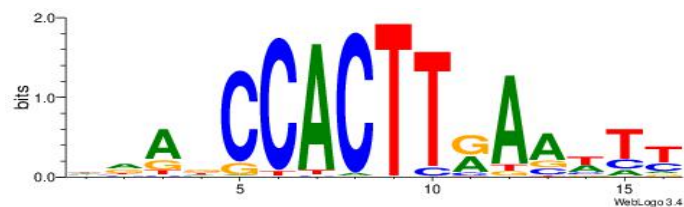
Similarity score: 0.00805715

Alignment:

AAWTTMAAGTGGHTDH
-----MBATTGGCTGH

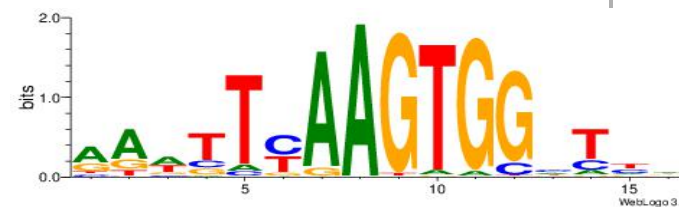
Original motif

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:

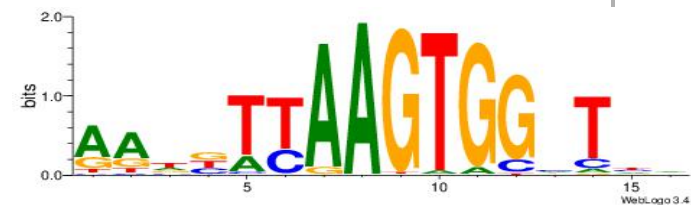
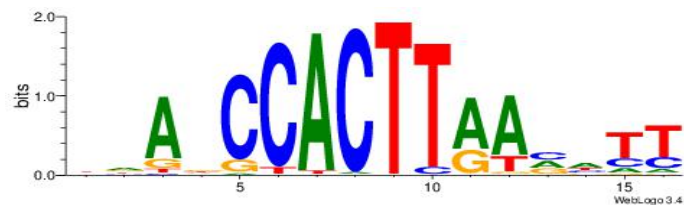
DDADCCACTTAAVHTT
DCAGCCAATVR-----

Original motif

Consensus sequence: DDADCCACTTAAVHTT

Reverse complement motif

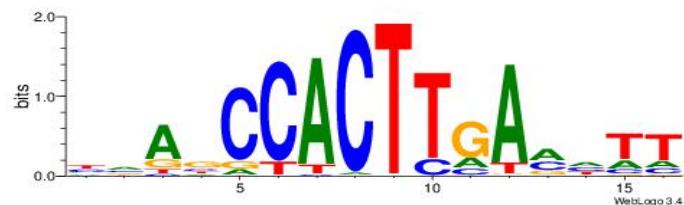
Consensus sequence: AAHVTTAAGTGGHTDD



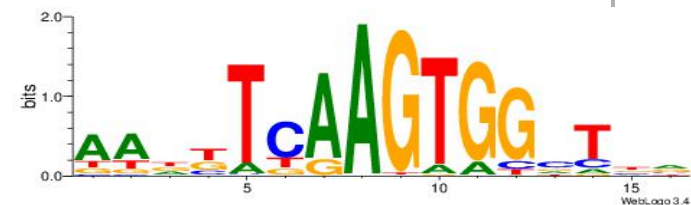
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0131729

Alignment:
 AAHYTCAAGTGGTBV
 -----MBATTGGCTGH

Original motif
 Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif
 Consensus sequence: AAHYTCAAGTGGTBV



Motif ID: [UP00034](#)
 Motif name: Sox7_primary

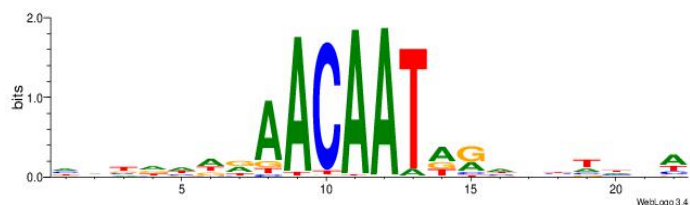
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.0131873

Alignment:

HHBDHDDAACAATDRHHHHHBW
 ----DCAGCCAATVR-----

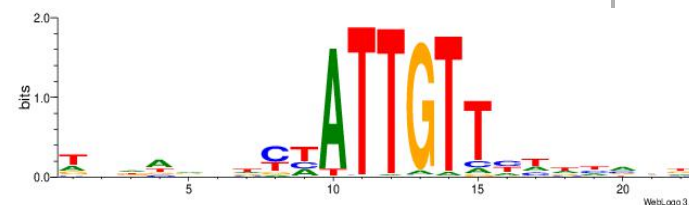
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



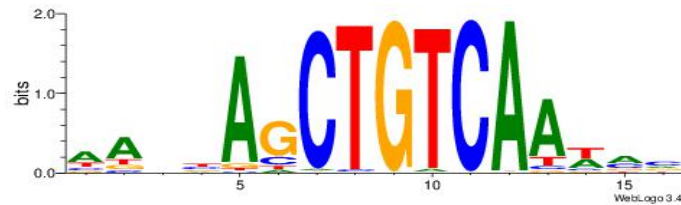
Motif ID: [UP00258](#)
 Motif name: Tgif2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0132199

Alignment:

AABBAGCTGTCAAWVV
-----DCAGCCAATVR

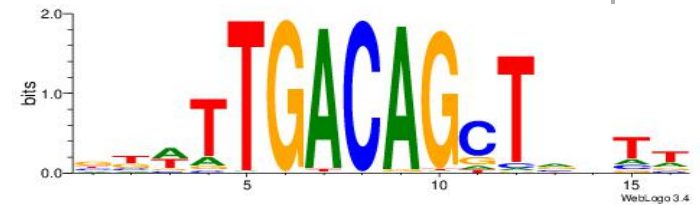
Original motif

Consensus sequence: AABBAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



Motif ID:

[UP00205](#)

Motif name:

Pknox2

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:

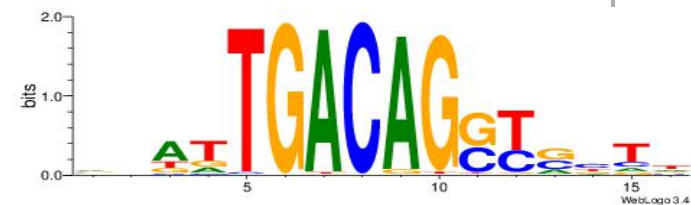
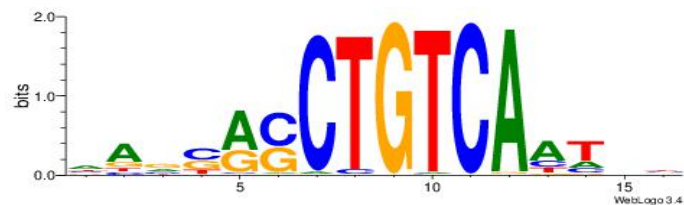
VHATTGACAGSKSVTH
MBATTGGCTGH-----

Original motif

Consensus sequence: HAVSRCTGTCAATHB

Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH

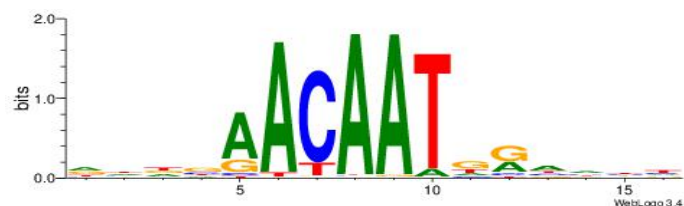


Motif ID: [UP00023](#)
 Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0141895

Alignment:
 HHHHMHATTGTTBDHD
 ----MBATTGGCTGH-

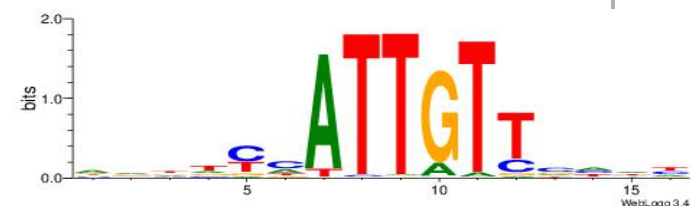
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



Motif ID: [UP00227](#)

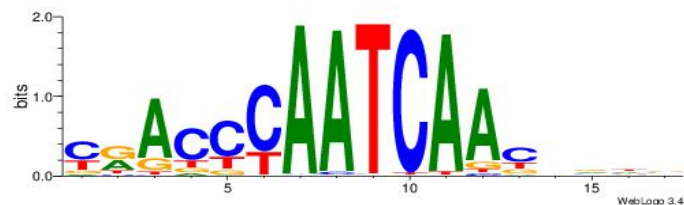
Motif name: Duxl
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0154208

Alignment:

YRACCCAATCAACVVHV
 DCAGCCAATVR-----

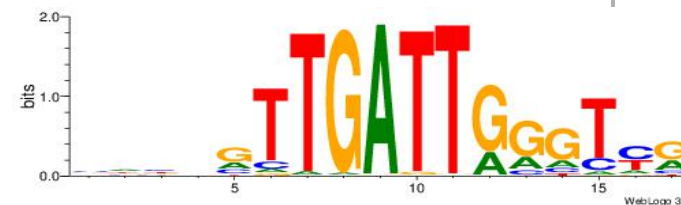
Original motif

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: GBTGCAGGTGB



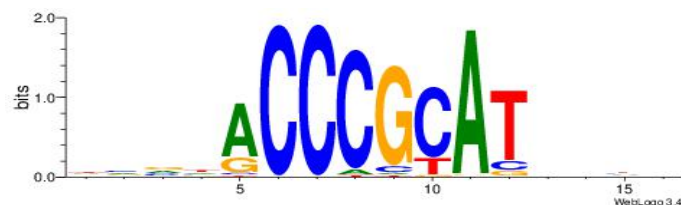
Best Matches for Motif ID 16 (Highest to Lowest)

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--

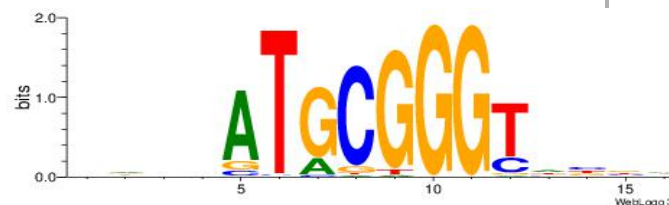
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



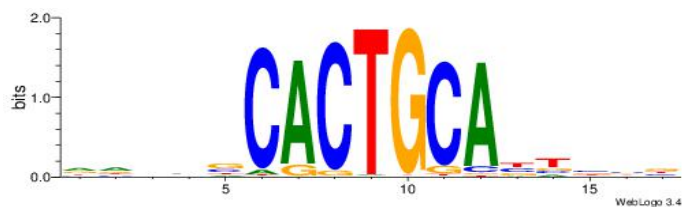
Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.000503863

Alignment:

BBBAVTGCAGTGBBVDD
 ---GBTGCAGGTGB---

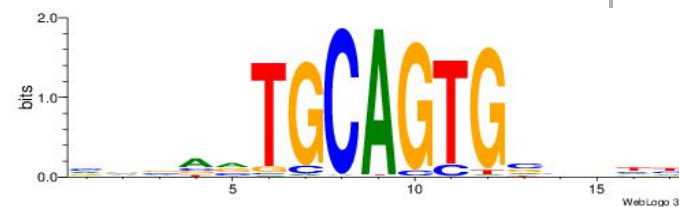
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00046](#)
 Motif name: Tcf2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

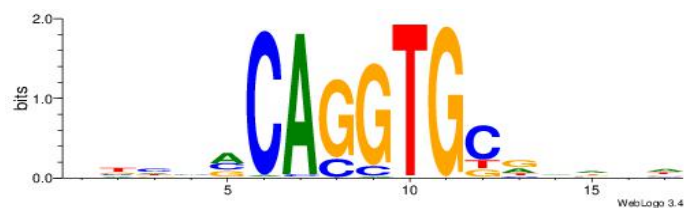
Number of overlap: 11
Similarity score: 0.000557448

Alignment:

DHDBHGCACCTGBDDVB
-----BCACCTGCABC-

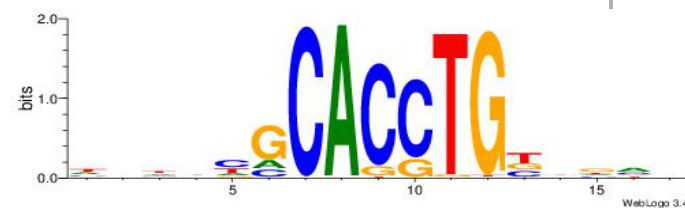
Original motif

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

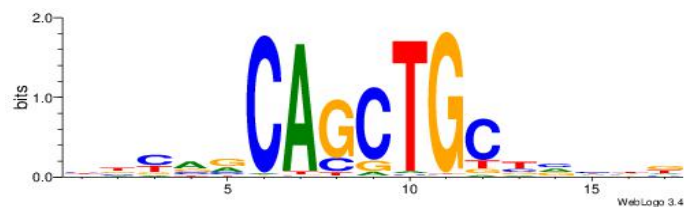
Alignment:

BBYVVCAGCTGCBVHHD
-----BCACCTGCABC--

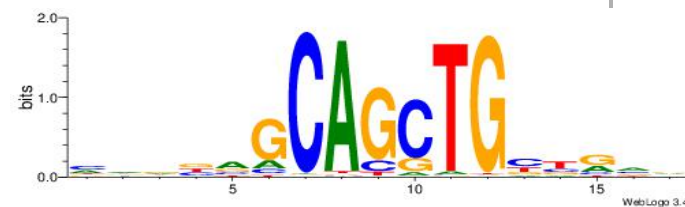
Original motif

Reverse complement motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Consensus sequence: HHDVVGCAGCTGVBKVB



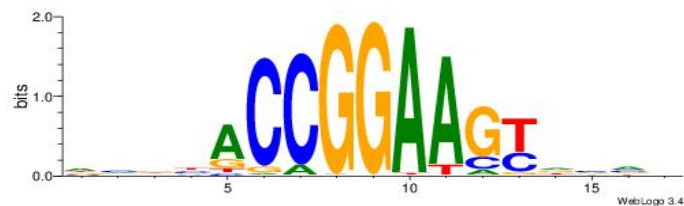
Motif ID: [UP00420](#)
Motif name: Elk3
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0111732

Alignment:

DVBBACCGGAAGYDVVV
--BCACCTGCABC----

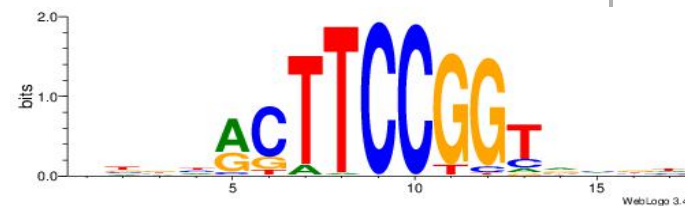
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



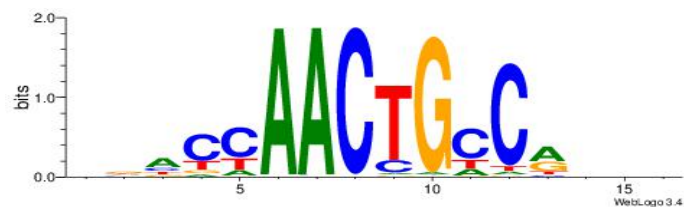
Number of overlap: 11
Similarity score: 0.015733

Alignment:

BDACCAACTGCCRBH
---BCACCTGCABC--

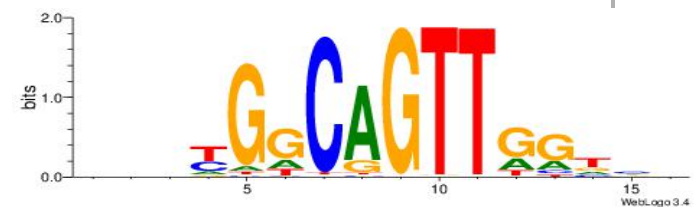
Original motif

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

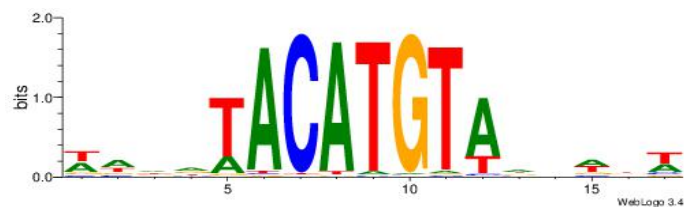
Alignment:

WVWDDTACATGTADDDW
---GBTGCAGGTGB---

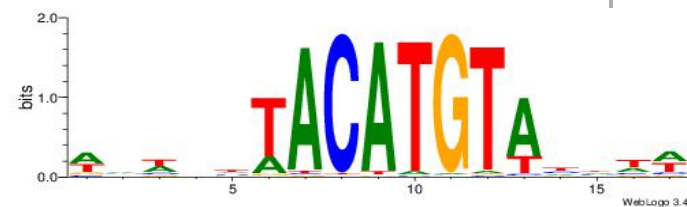
Original motif

Reverse complement motif

Consensus sequence: WDDDTACATGTADDWBW



Consensus sequence: VVWDDTACATGTADDDW



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

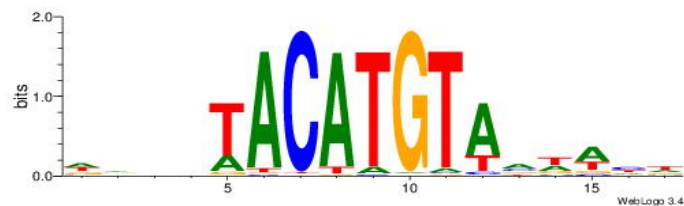
Alignment:

DDWWBTACATGTADDDD

-----BCACCTGCABC--

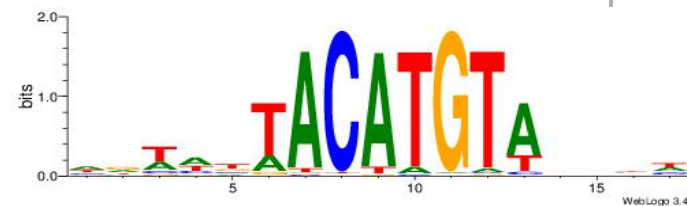
Original motif

Consensus sequence: DDDDTACATGTAVVWHD



Reverse complement motif

Consensus sequence: DDWWBTACATGTADDDD



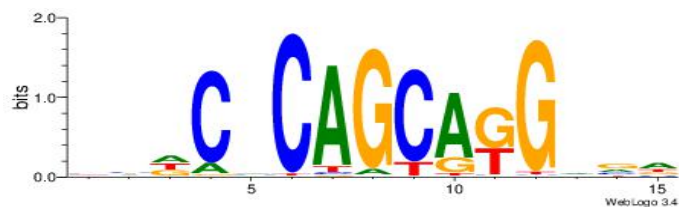
Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0169178

Alignment:

DVBCYTGCTGBGDDD
 BCACCTGCABC-----

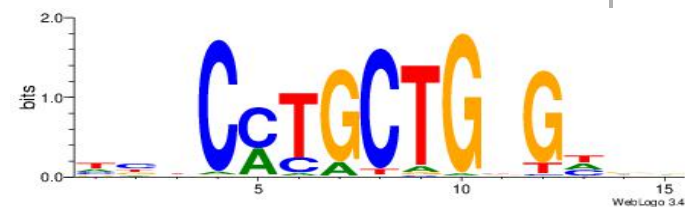
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



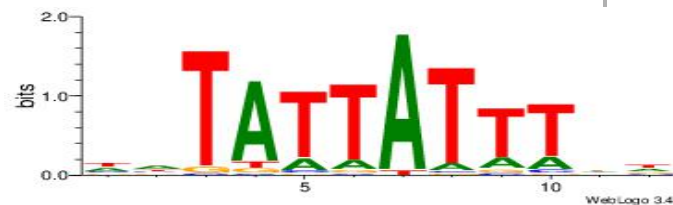
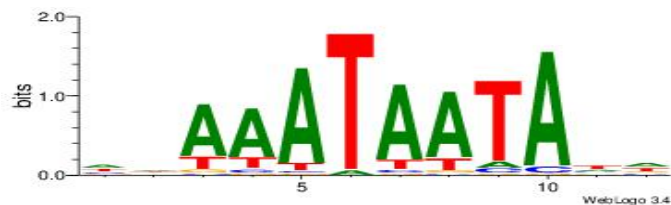
Dataset #: 2 Motif ID: 17 Motif name: wwAAATAATAtw

Original motif

Consensus sequence: HDAAATAATADD

Reverse complement motif

Consensus sequence: DDTATTATTTDH



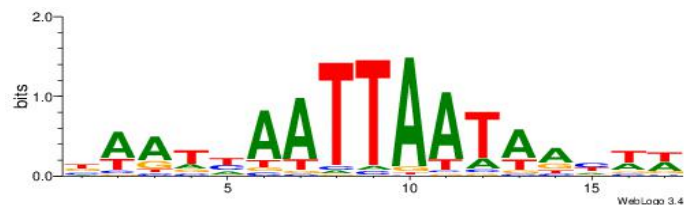
Best Matches for Motif ID 17 (Highest to Lowest)

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---

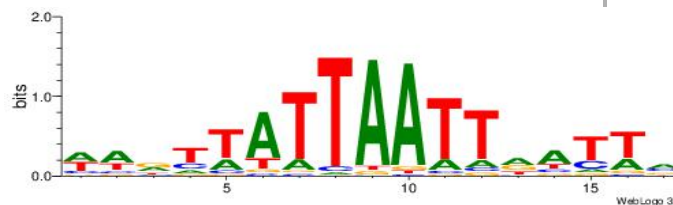
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



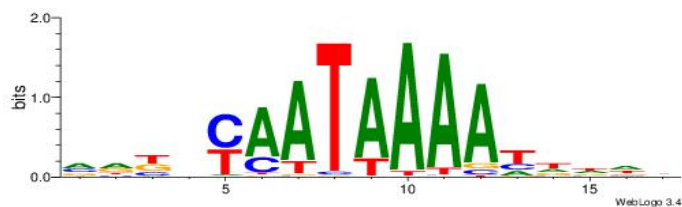
Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00673636

Alignment:

HDDDATTTTATTKVRDB
 ---DDTATTATTTDH--

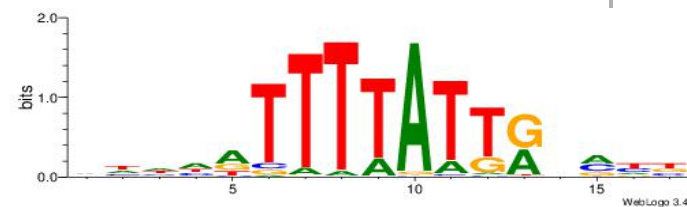
Original motif

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

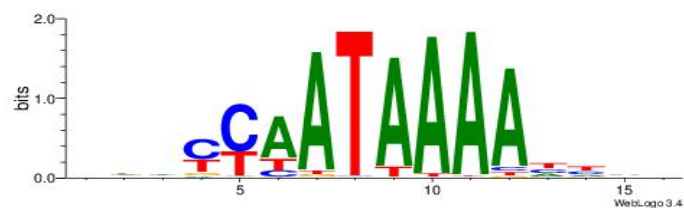
Number of overlap: 12
Similarity score: 0.00685179

Alignment:

HDHHTTTTATTKKHDD
--DDTATTATTTDH--

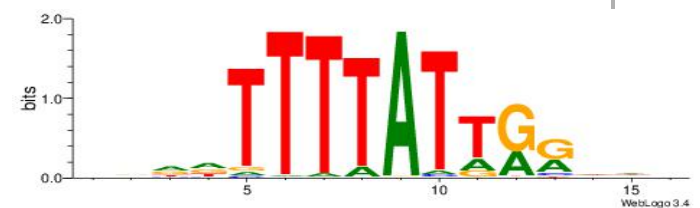
Original motif

Consensus sequence: HDHYAATAAAHHHH



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:

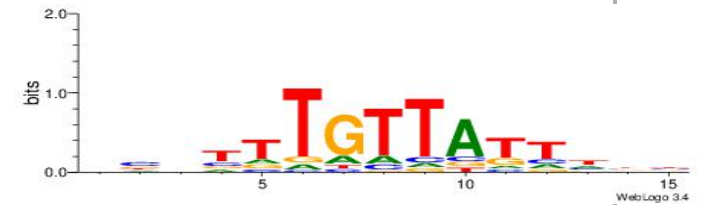
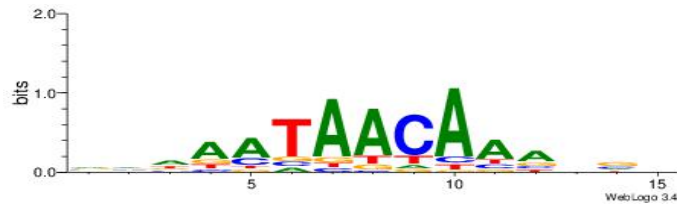
VVDAATAACAAAVVB
HDAAATAATADD---

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

Consensus sequence: BVVTTTGTATTDBB



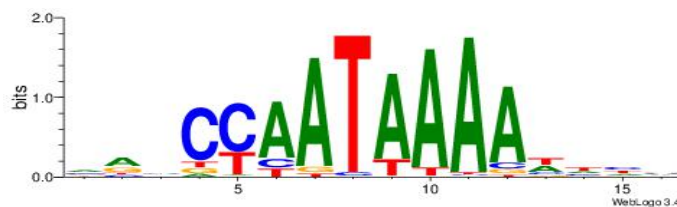
Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0121723

Alignment:

VDHWT TTTATTGGDKB
 --DDTATTATTTDH--

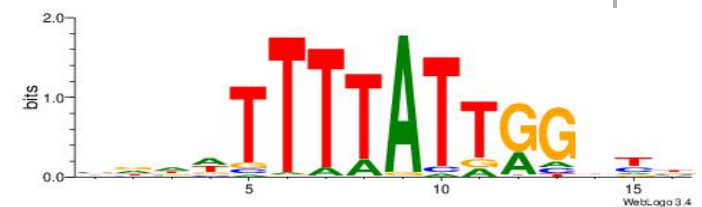
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWT TTTATTGGDKB



Motif ID: [UP00255](#)

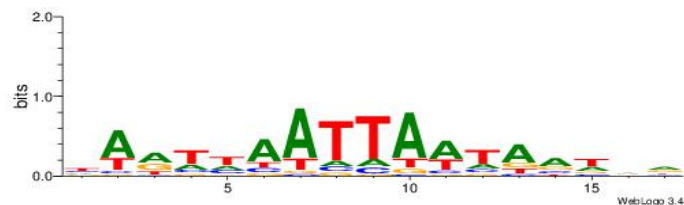
Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0133808

Alignment:

DHDBTAWTAATTHAKTH
 --DDTATTATTTDH---

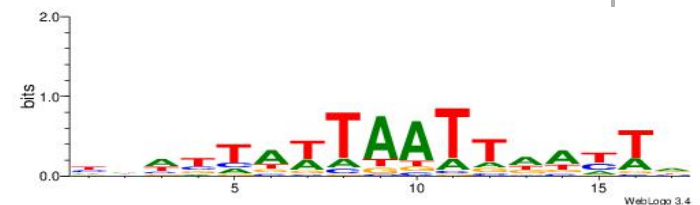
Original motif

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

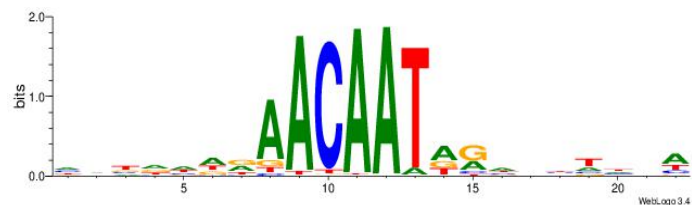
Similarity score: 0.0144702

Alignment:

HHBDHDDAACAAATDRHHHHHBW
----HDAAATAATADD-----

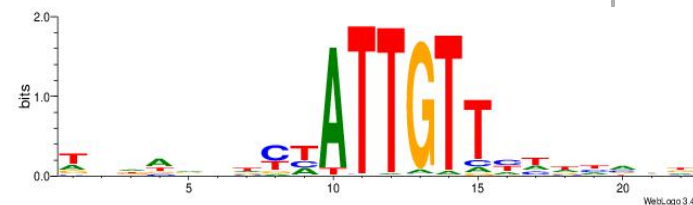
Original motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



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:

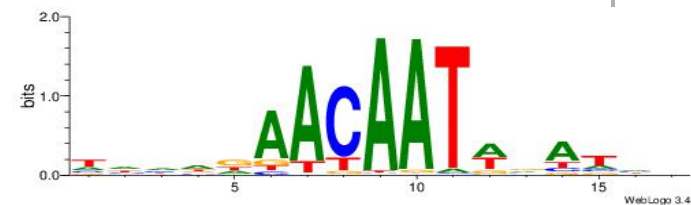
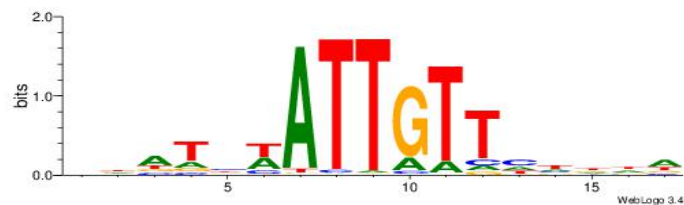
DDATBWATTGTTHHDDD
---DDTATTATTTDH--

Original motif

Consensus sequence: DDATBWATTGTTHHDDD

Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



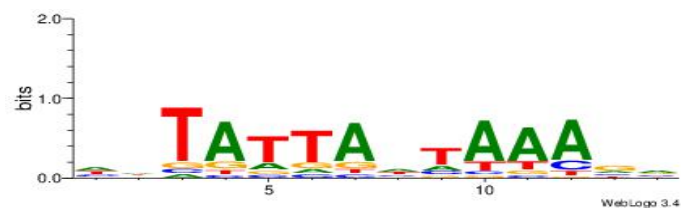
Motif ID: [UP00024](#)
 Motif name: Glis2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0148858

Alignment:

BVTTTAHTAATADH
 --HDAAATAATADD

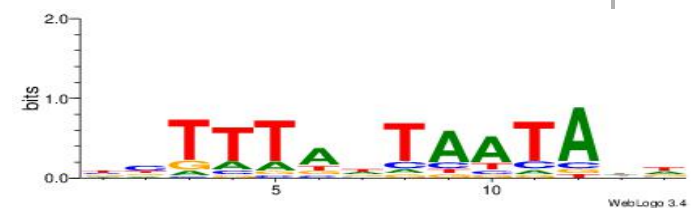
Original motif

Consensus sequence: HDTATTAHTAAVV



Reverse complement motif

Consensus sequence: BVTTTAHTAATADH



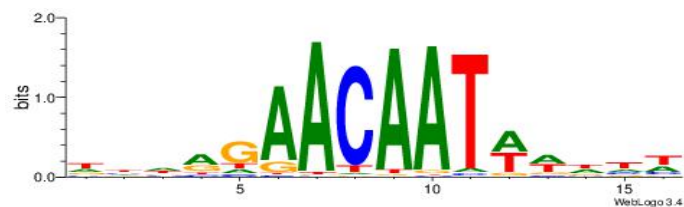
Motif ID: [UP00096](#)
 Motif name: Sox13_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.014968

Alignment:

DHDRGAACAATWWDHW
 --HDAAATAATADD--

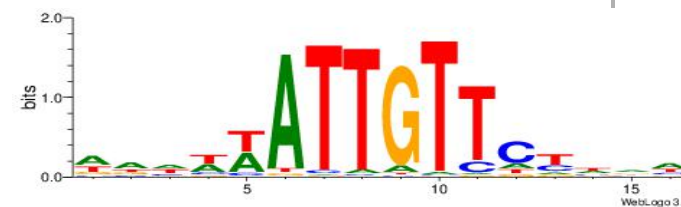
Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



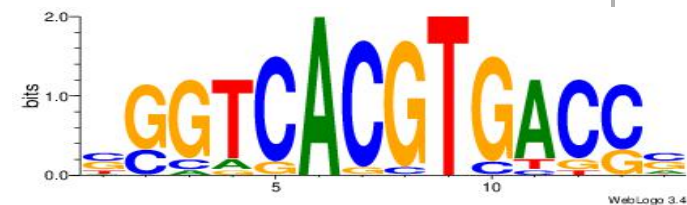
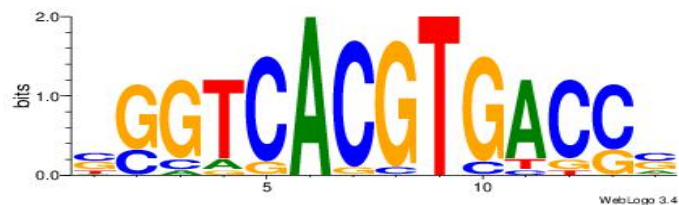
Dataset #: 2 Motif ID: 18 Motif name: sSGTCACGTGACCS

Original motif

Consensus sequence: SGGTCACGTGACCS

Reverse complement motif

Consensus sequence: SGGTCACGTGACCS



Best Matches for Motif ID 18 (Highest to Lowest)

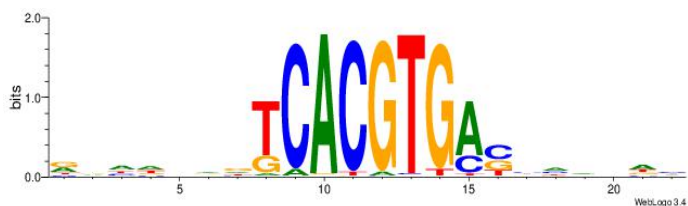
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0

Alignment:

RDHDBVDT CACGT GASBHVHDH
 ----- SGGT CACGT GACCS -----

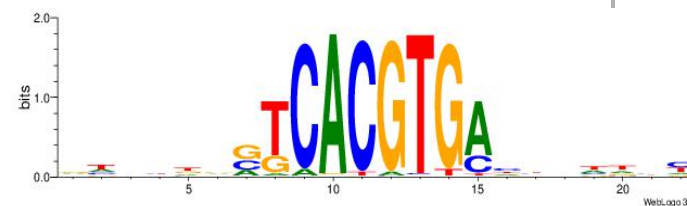
Original motif

Consensus sequence: RDHDBVDT CACGT GASBHVHDH



Reverse complement motif

Consensus sequence: DDHBBST CACGT GAHBBDHMH

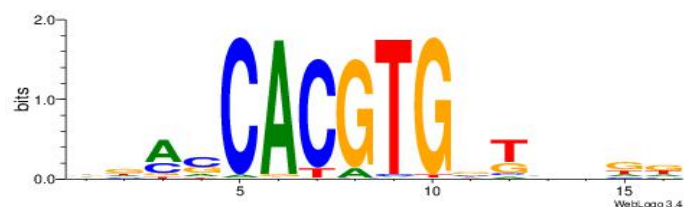


Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0226905

Alignment:
 DDASCACGTGBTBVDD
 --SGGTCACGTGACCS

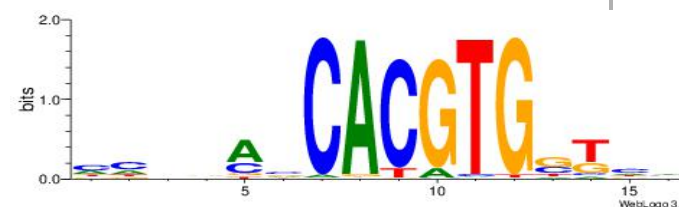
Original motif

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

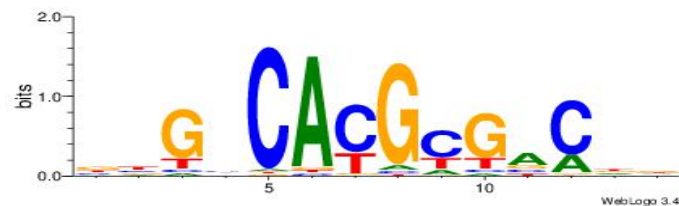
Alignment:

BBGHCACGCGACDD

SGGTCACGTGACCS

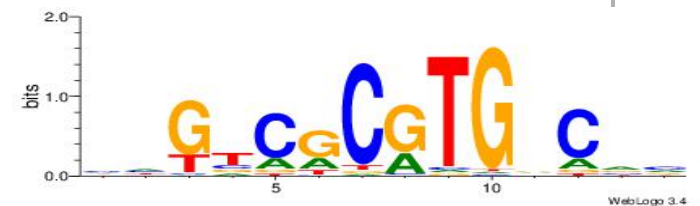
Original motif

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

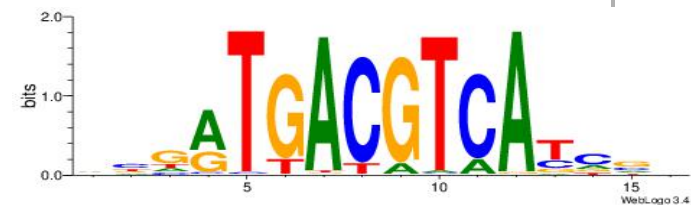
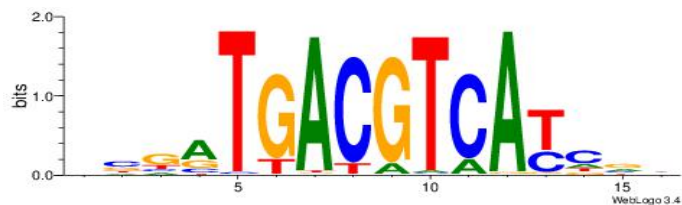
-SGGTCACGTGACCS-

Original motif

Consensus sequence: BBGATGACGTCAYCVH

Reverse complement motif

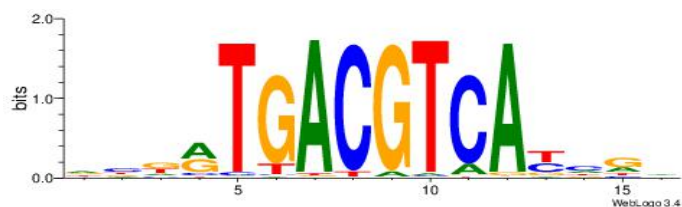
Consensus sequence: HVGMTGACGTCATCBB



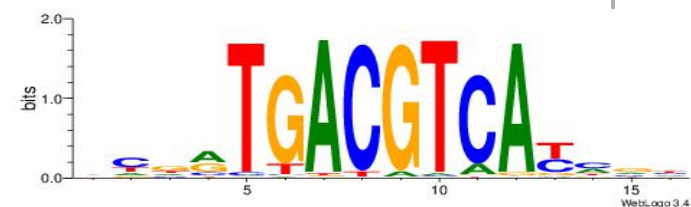
Motif ID: [UP00020](#)
 Motif name: Atf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0259163

Alignment:
 DBDRTGACGTCAYHRD
 -SGGTCACGTGACCS-

Original motif
 Consensus sequence: DBDRTGACGTCAYHRD



Reverse complement motif
 Consensus sequence: DMDMTGACGTCAKHBD



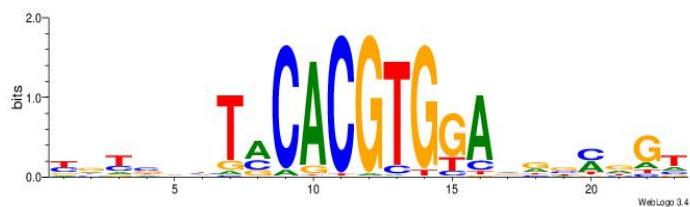
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 14
 Similarity score: 0.0403911

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----SGGTCACGTGACCS-----

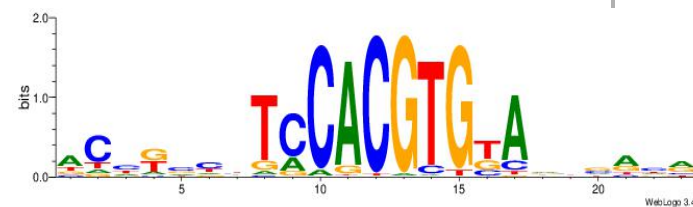
Original motif

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

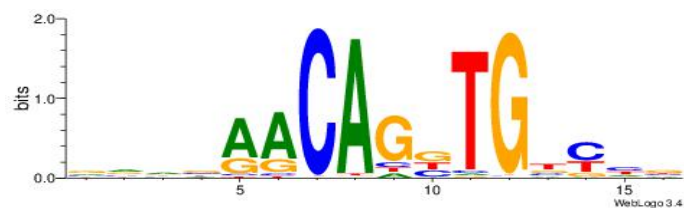
Number of overlap: 14
Similarity score: 0.0440464

Alignment:

VVDBAACAGBTGBYHB
--SGGTCACGTGACCS

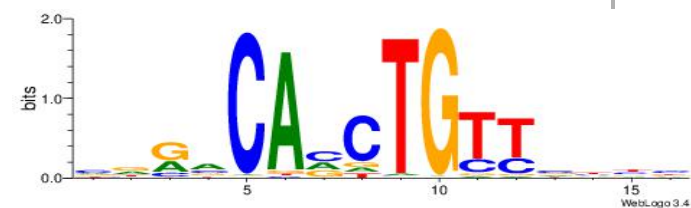
Original motif

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

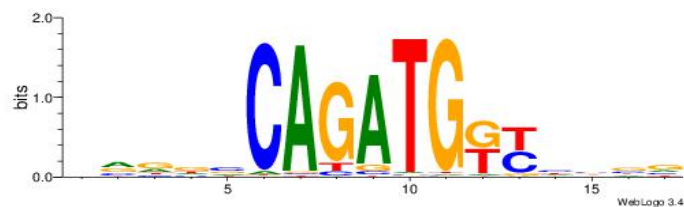
Alignment:

VBBDMYCATCTGVHBBH
--SGGTCACGTGACCS--

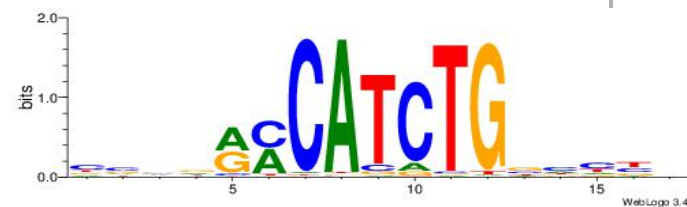
Original motif

Reverse complement motif

Consensus sequence: HVDDVCAGATGKYHBBV



Consensus sequence: VBBDMYCATCTGVHBBH



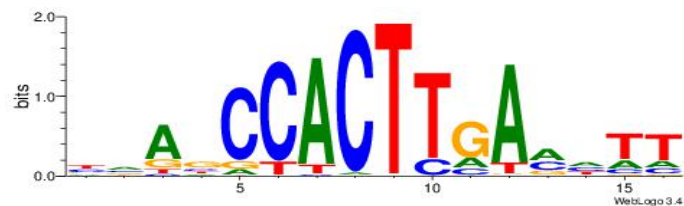
Motif ID: [UP00165](#)
Motif name: Titf1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0471926

Alignment:

BVABCCACTTGAMHTT
-SGGTCACGTGACCS-

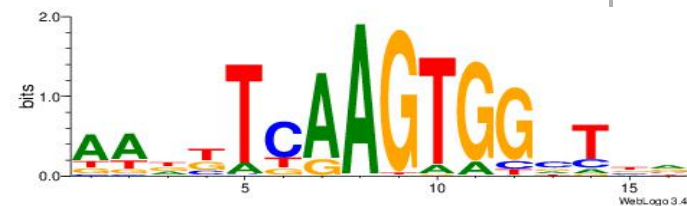
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



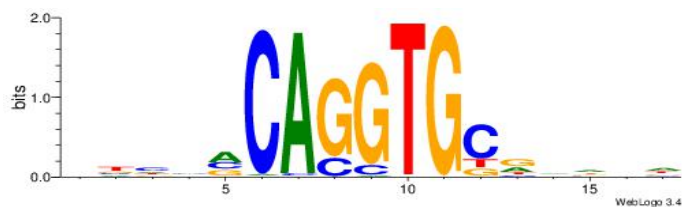
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0506329

Alignment:

DHDBHGCACCTGBDDVB
 --SGGTCACGTGACCS--

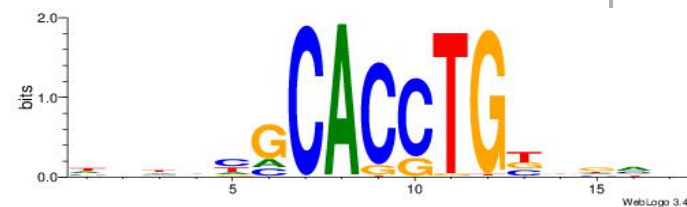
Original motif

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: DBTACWGTAHVH



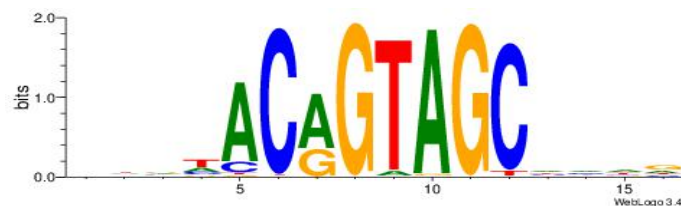
Best Matches for Motif ID 19 (Highest to Lowest)

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: Forward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0

Alignment:
 HHHHGCTACKGTHVHH
 ----DBTACWGTAVH-

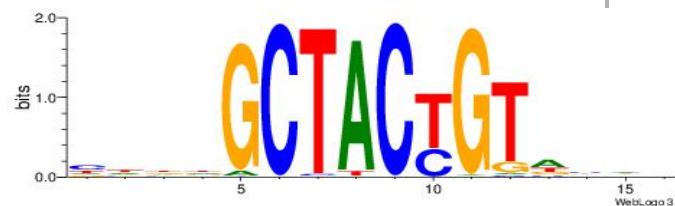
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



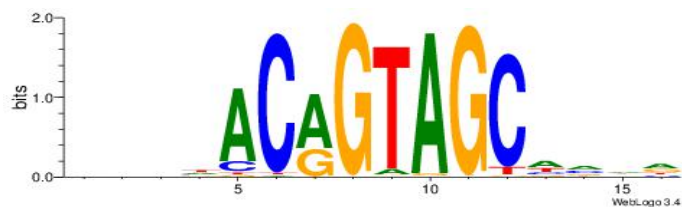
Motif ID: [UP00027](#)
 Motif name: Osr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00480574

Alignment:

DHBHGCTACKGTHDHH
 ----DBTACWGTAVH-

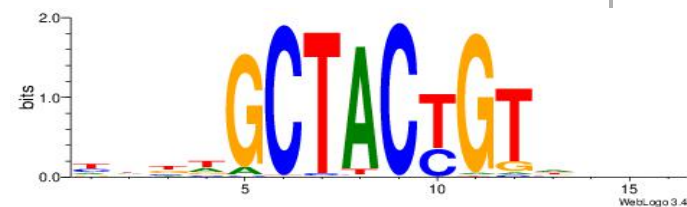
Original motif

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: Backward
 Position number: 4

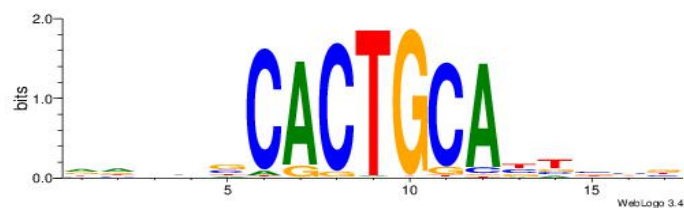
Number of overlap: 11
Similarity score: 0.0165381

Alignment:

BBBAVTGCAGTGBBVDD
---HVTACWGATABD---

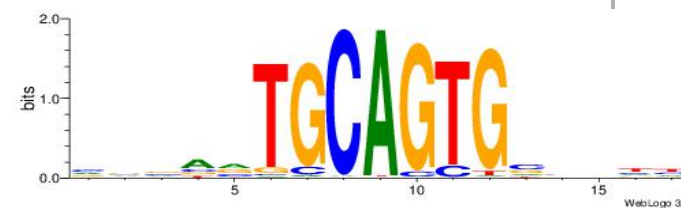
Original motif

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

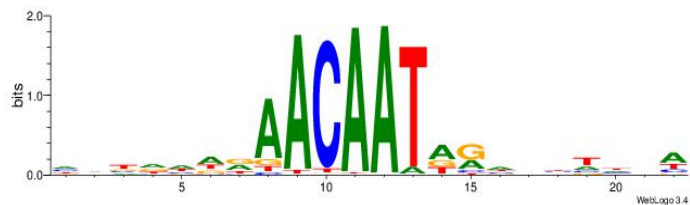
Alignment:

HHBDHDDAACAATDRHHHHHBW
-----DBTACWGTAHVH-----

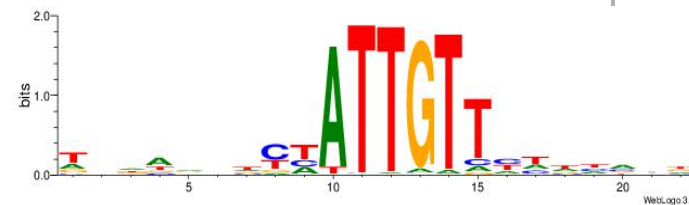
Original motif

Reverse complement motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



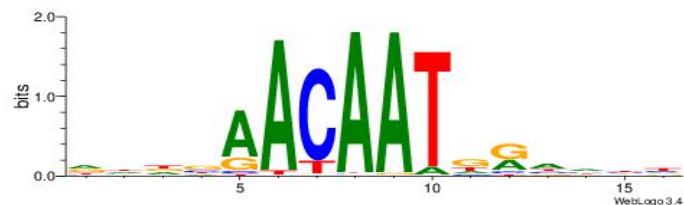
Motif ID: [UP00023](#)
Motif name: Sox30_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0294174

Alignment:

HHHHMHATTGTTBDHD
---HVTACWGATABD---

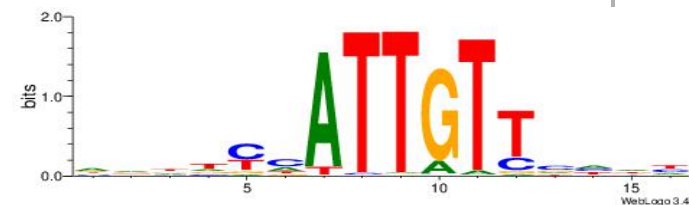
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



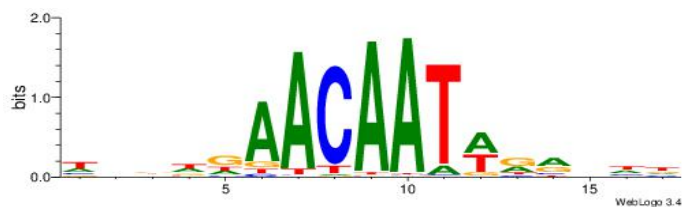
Motif ID: [UP00075](#)
 Motif name: Sox15_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0301544

Alignment:

DHVKMWATTGTTHDHDH
 ---HVTACWGTTABD---

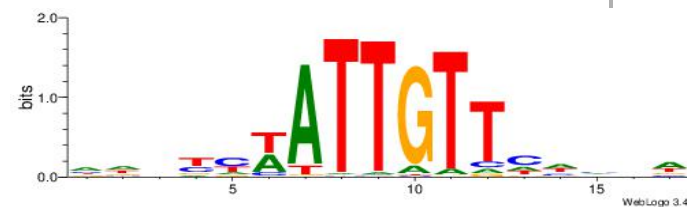
Original motif

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

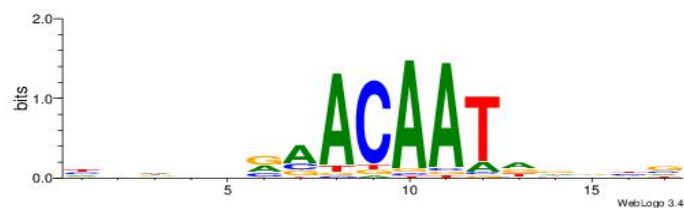
Number of overlap: 11
Similarity score: 0.0310991

Alignment:

VHVHDATTGTTMHDDDH
--DBTACWGTAVH----

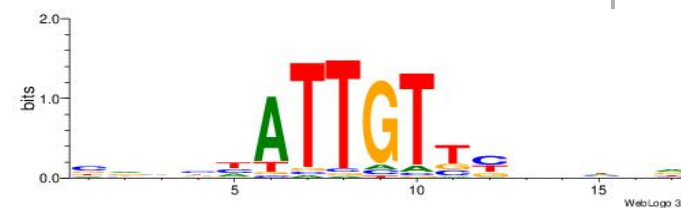
Original motif

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

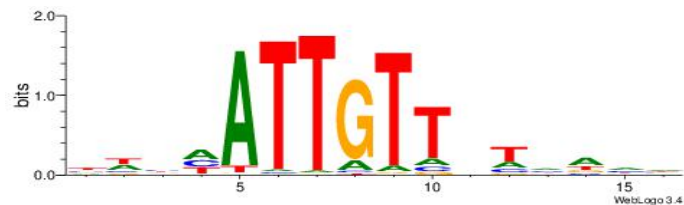
Alignment:

BWBHATTGTTBTHDHH
-DBTACWGTAVH----

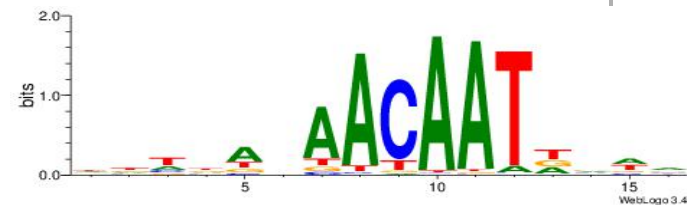
Original motif

Reverse complement motif

Consensus sequence: BWBHATTGTTBTHDHH



Consensus sequence: HHDHABAACAATHBWV



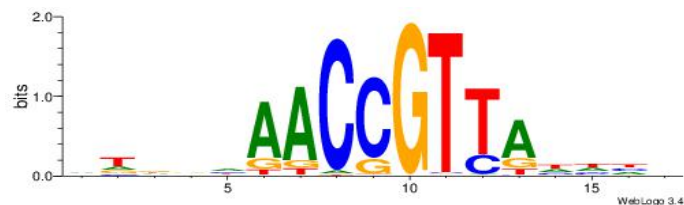
Motif ID: [UP00092](#)
Motif name: Myb_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0314236

Alignment:

HDDDHAACCGTTAHHHD
---DBTACWGTAVH---

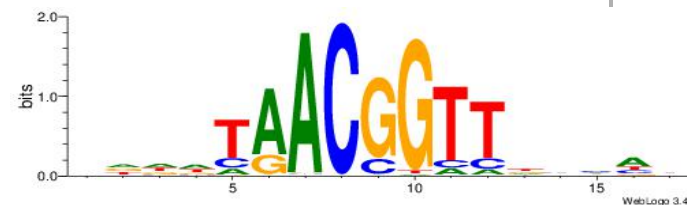
Original motif

Consensus sequence: HDDDHAACCGTTAHHHD



Reverse complement motif

Consensus sequence: DHHHTAACGGTTHHHDH



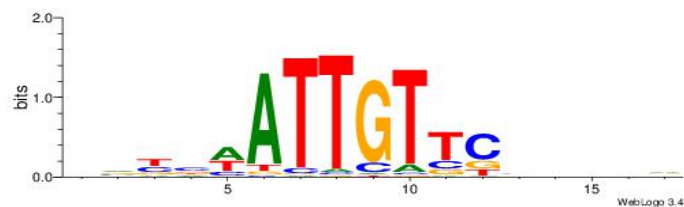
Motif ID: [UP00071](#)
 Motif name: Sox21_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0319794

Alignment:

VVYBWATTGTTTCVBHDV
 --HVTACWGTTABD-----

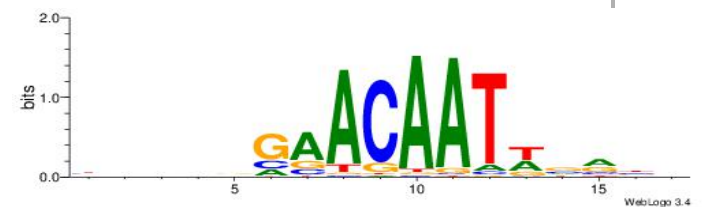
Original motif

Consensus sequence: VVYBWATTGTTTCVBHDV



Reverse complement motif

Consensus sequence: BDDBVGAACAATWBMbV



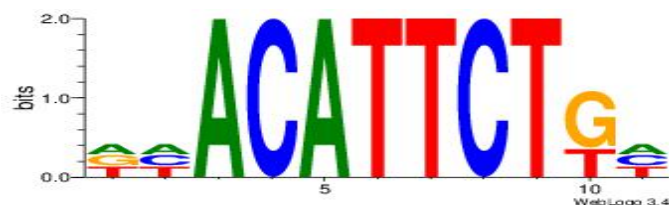
Dataset #: 2 Motif ID: 20 Motif name: dhACATTCTkh

Original motif

Consensus sequence: DHACATTCTGH

Reverse complement motif

Consensus sequence: HCAGAATGTHD



Best Matches for Motif ID 20 (Highest to Lowest)

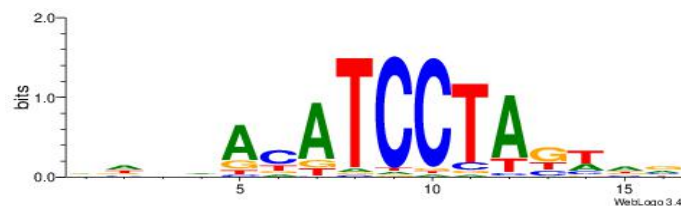
Motif ID: [UP00038](#)
 Motif name: Spdef_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00581553

Alignment:

VDWYTAGGATGTHVDH
 ---HCAGAATGTHD--

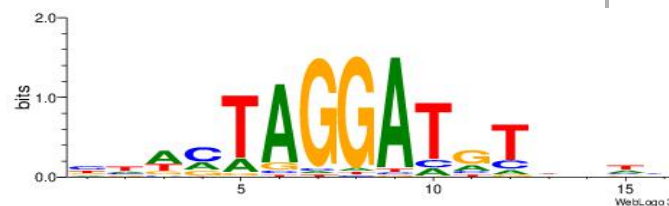
Original motif

Consensus sequence: DDBHACATCCTAKWDV



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH



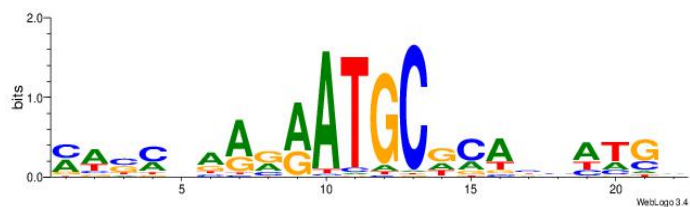
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.00582895

Alignment:

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

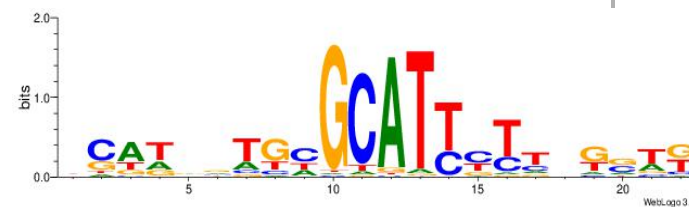
Original motif

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

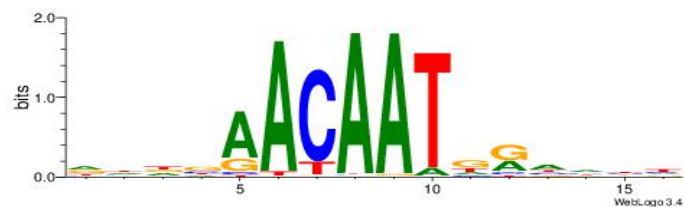
Number of overlap: 11
Similarity score: 0.00613057

Alignment:

HHHHMHATTGTTBDHD
--DHACATTCTGH--

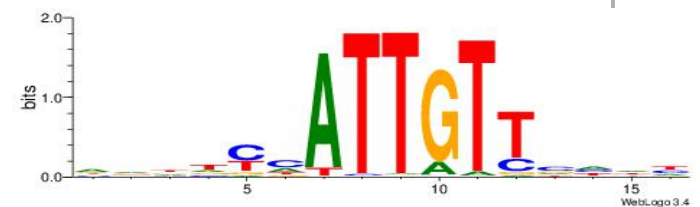
Original motif

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

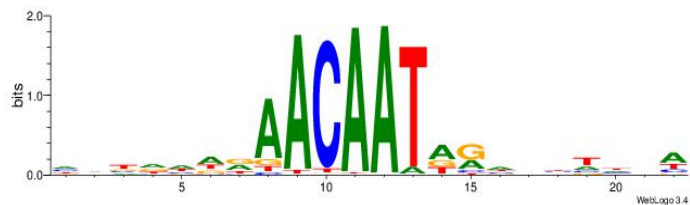
Alignment:

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

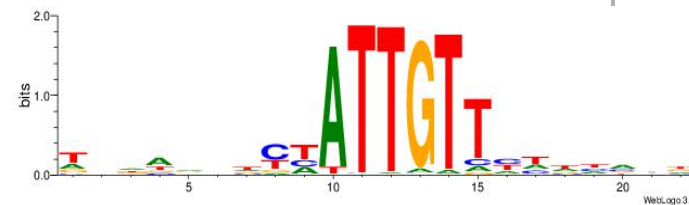
Original motif

Reverse complement motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

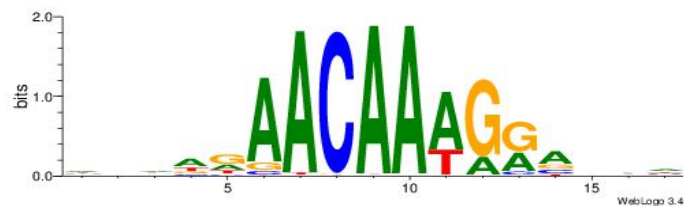


Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0122803

Alignment:
HHBTMCTTTGTTMDDVH
--DHACATTCTGH----

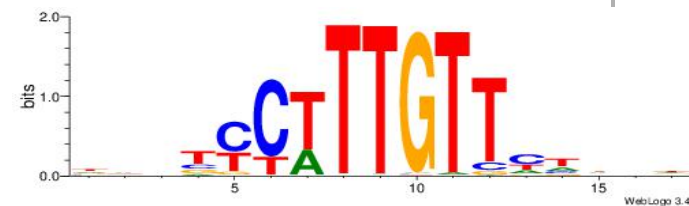
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



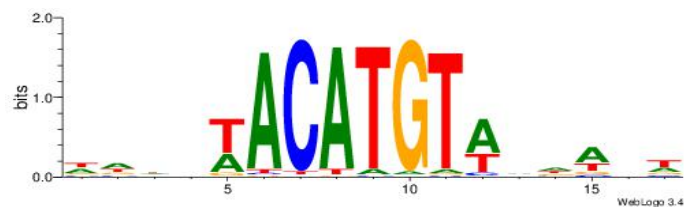
Motif ID: [UP00250](#)
 Motif name: Irx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0132772

Alignment:

WVTDHWACATGTWHDDD
 ----DHACATTCTGH--

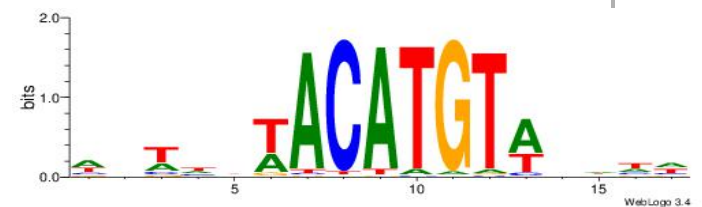
Original motif

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: Backward
 Position number: 1
 Number of overlap: 11

Similarity score: 0.0141401

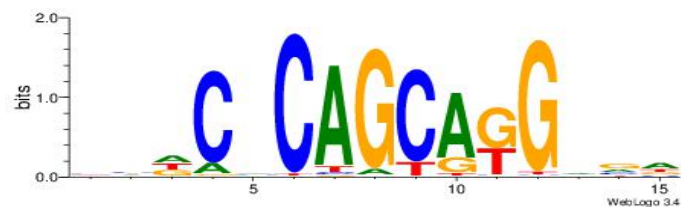
Alignment:

DVBCYTGCTGBGDDD

----HCAGAATGTHD

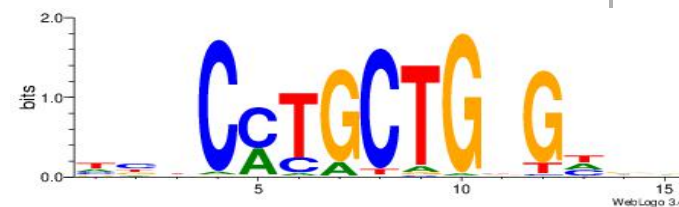
Original motif

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

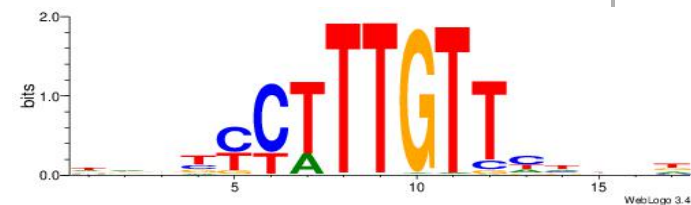
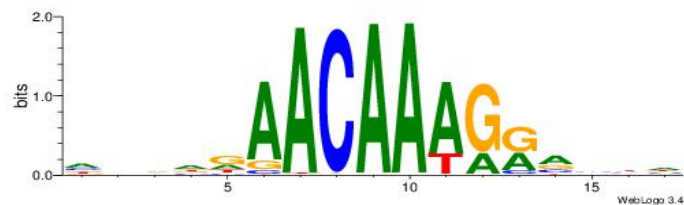
--DHACATTCTGH----

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

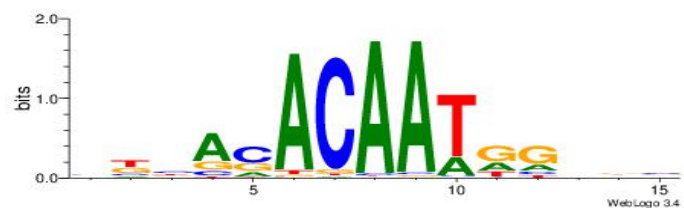


Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0151959

Alignment:
 BKBASACAATRGHBB
 ---HCAGAATGTHD-

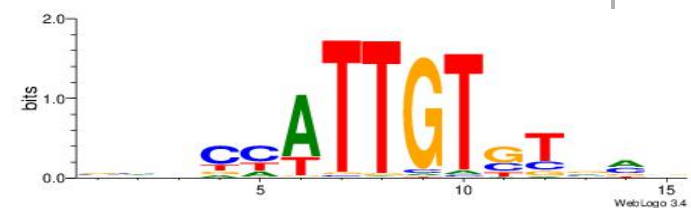
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



Motif ID: [UP00064](#)

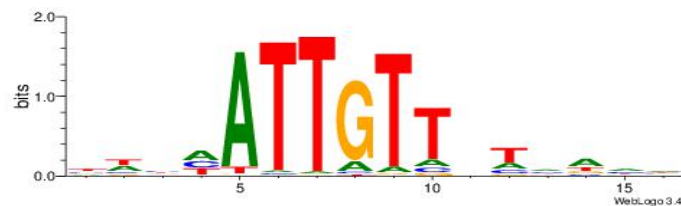
Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.015273

Alignment:

BWBHATTGTTBTHDHH
 DHACATTCTGH-----

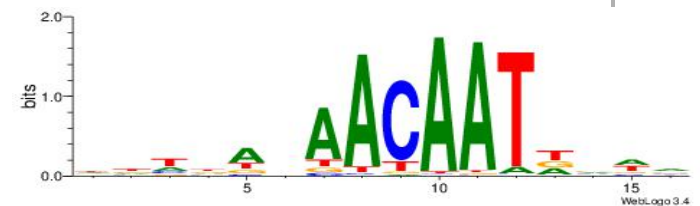
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



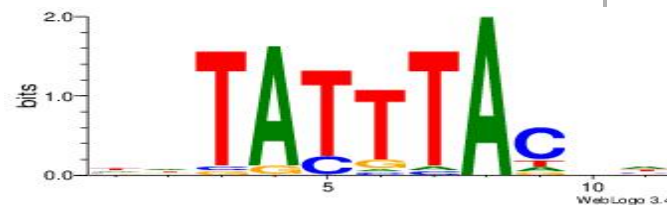
Dataset #: 2 Motif ID: 21 Motif name: wbgTAAATAww

Original motif

Consensus sequence: DBGTAATAHD

Reverse complement motif

Consensus sequence: DHTATTTACBD



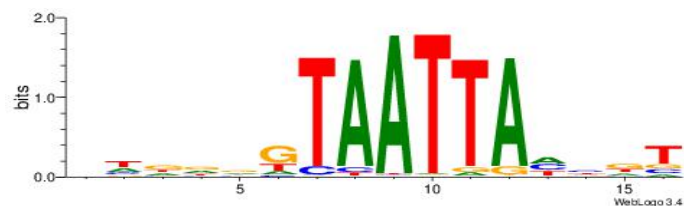
Best Matches for Motif ID 21 (Highest to Lowest)

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--

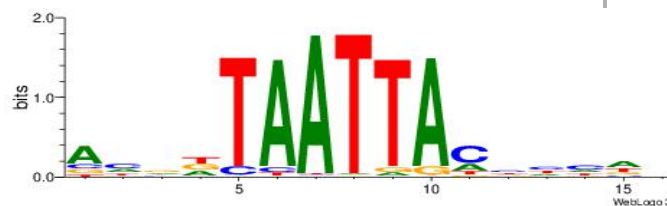
Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



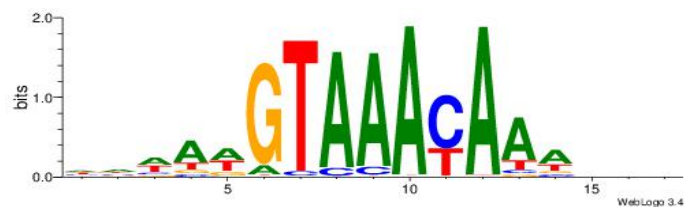
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00453517

Alignment:

HHWAWGTAAAYAAVDB
 ---DBGTAATAHD---

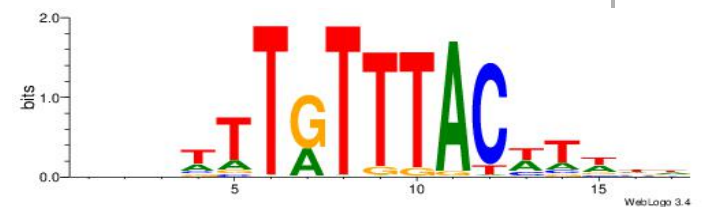
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



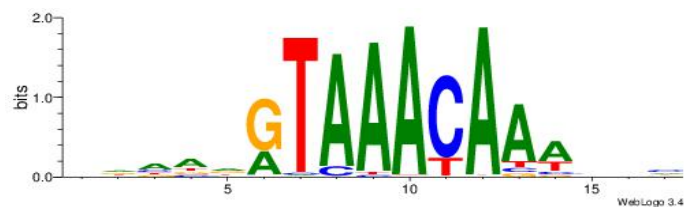
Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

Number of overlap: 11
Similarity score: 0.00490457

Alignment:
HDHADGTAAACAAAVVH
---DBGTAATAHD---

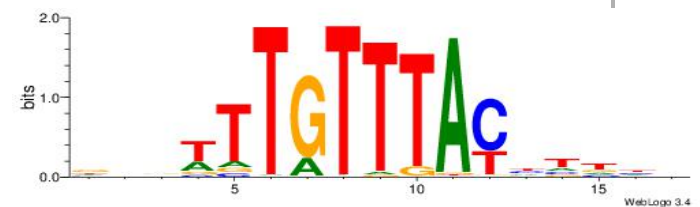
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



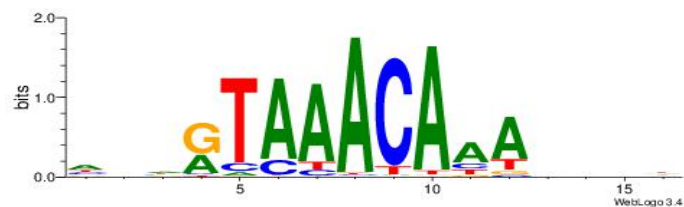
Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.00656547

Alignment:
HDHRTAAACAAAHDDD
-DBGTAATAHD----

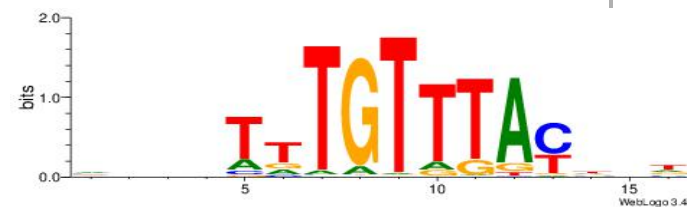
Original motif

Reverse complement motif

Consensus sequence: HDHRTAAACAAHDDD



Consensus sequence: DDDHTTTGTTTAMHDDH



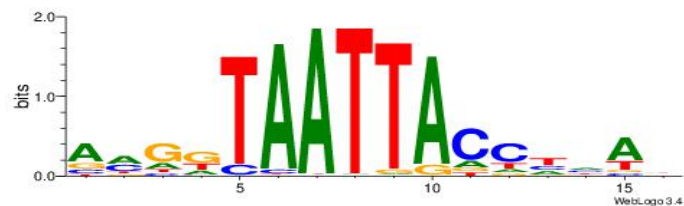
Motif ID: [UP00182](#)
Motif name: Hoxa6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0086354

Alignment:

DTHHGGTAATTAYCYT
---DBGTAATAHD---

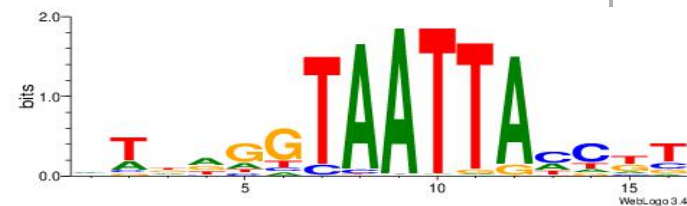
Original motif

Consensus sequence: AMGKTAATTACCHHAD



Reverse complement motif

Consensus sequence: DTHHGGTAATTAYCYT



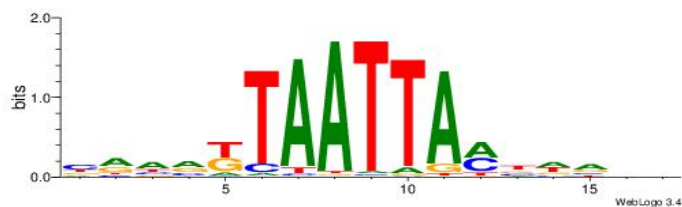
Motif ID: [UP00260](#)
 Motif name: Hoxc6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0092156

Alignment:

BRHVKTAATTAMBDVVD
 ---DHTATTTACBD---

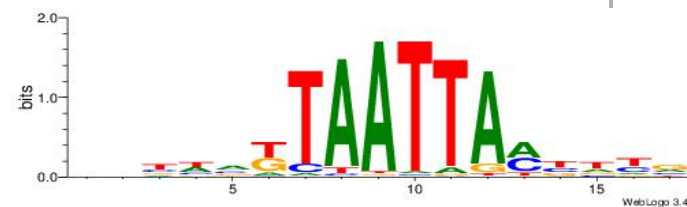
Original motif

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

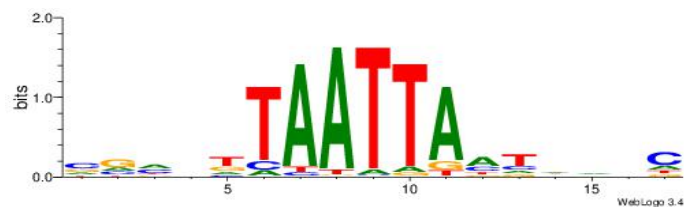
Number of overlap: 11
Similarity score: 0.00942246

Alignment:

VVHDDTAATTAHTDDBC
---DHTATTTACBD---

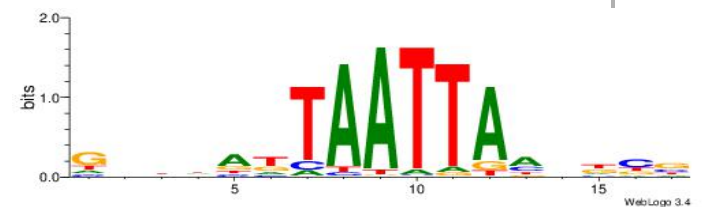
Original motif

Consensus sequence: VVHDDTAATTAHTDDBC



Reverse complement motif

Consensus sequence: GBDDAHTAATTADHHV



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

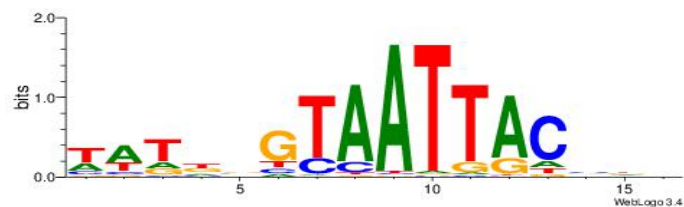
Alignment:

VDVGTAATTACBDAWW
-DBGTAATAHD----

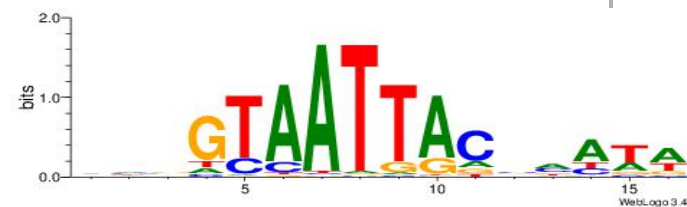
Original motif

Reverse complement motif

Consensus sequence: WWTDBGTAATTACVDB



Consensus sequence: VDVGTAATTACBDAWW



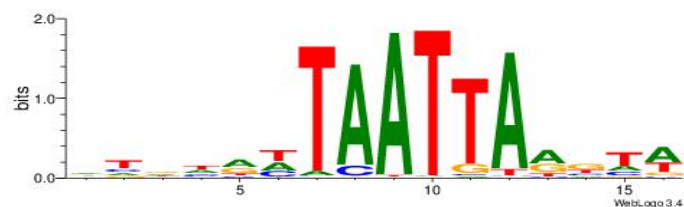
Motif ID: [UP00254](#)
Motif name: Pou2f1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.00998499

Alignment:

WABKTAATTAKHHHD
-DBGTAATAHD----

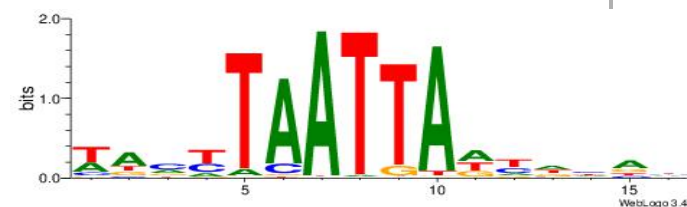
Original motif

Consensus sequence: DHDHRHTAATTARBTW



Reverse complement motif

Consensus sequence: WABKTAATTAKHHHD



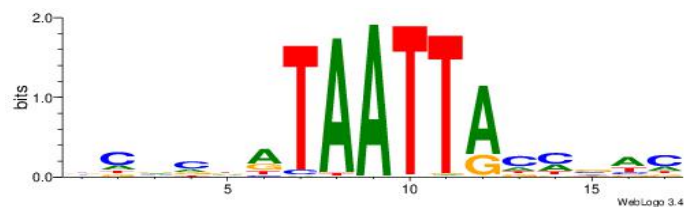
Motif ID: [UP00110](#)
 Motif name: Dlx4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0107458

Alignment:

GHVRGTAATTATDVVG
 --DBGTAATAHD-----

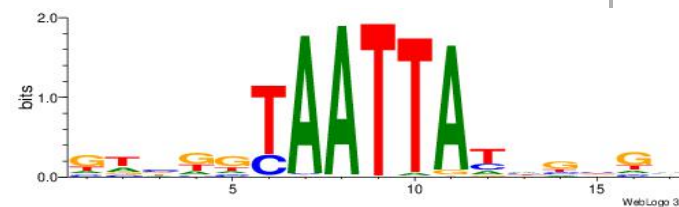
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVG



Results created by MOTIFSIM on 06-18-2018 12:10:47

Runtime: 594.209 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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