



# MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

## INPUT

### Input Parameters

Number of files:	4
Number of top significant motifs:	10
Number of best matches:	10
Similarity cutoff $\geq$	0.75
Matching motif database:	UniProbe Mus Musculus
Phylogenetic tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

### Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM721.txt	16	1
MEME-ChIP_DM721.txt	11	2
PScanChIP_DM721.txt	37	3
RSAT_peak-motifs_DM721.txt	40	4

## RESULTS

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

Dataset #: 1      Motif ID: 1      Motif name: Motif 1

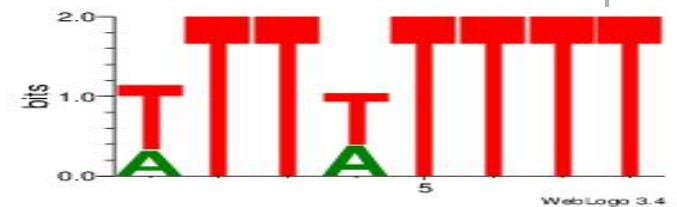
Original motif

Consensus sequence: AAAAWAAA



Reverse complement motif

Consensus sequence: TTTWTTTT



### Best Matches for Motif ID 1 (Highest to Lowest)

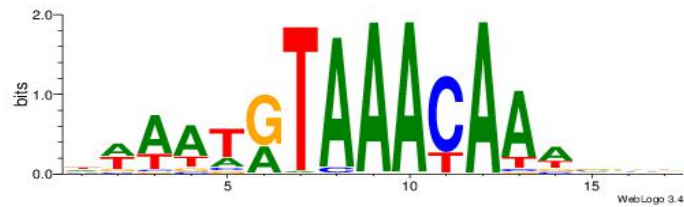
Motif ID:	<a href="#">UP00061</a>
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:

```
VVVWTTGTTTAMATTWD  
---TTTWTTTT-----
```

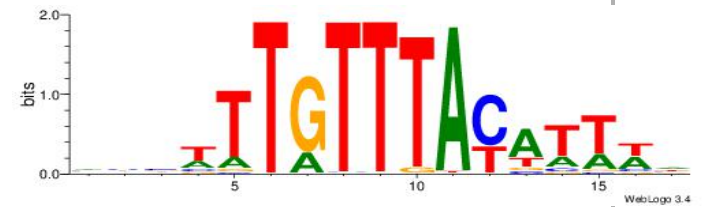
Original motif

Consensus sequence: DWAATR~~T~~AAACA~~A~~WV~~V~~B



Reverse complement motif

Consensus sequence: VVWTTGTTTAMATTWD



Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.00234495

Alignment:

```
BDVTTTKTTTACWTWHH
---TTTWTTTT-----
```

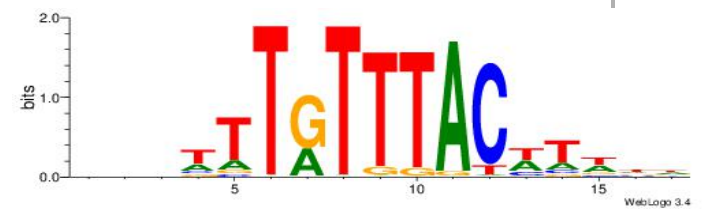
Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



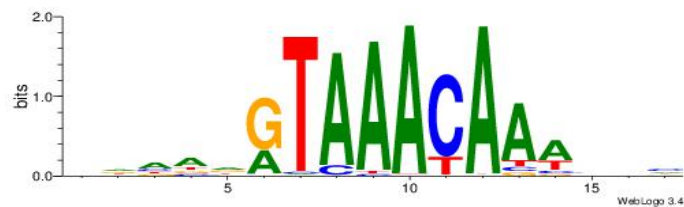
Motif ID: [UP00039](#)  
Motif name: Foxj3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00263137

Alignment:

```
DVVTTTGTTTACDTHDH  
---TTTWTTTT-----
```

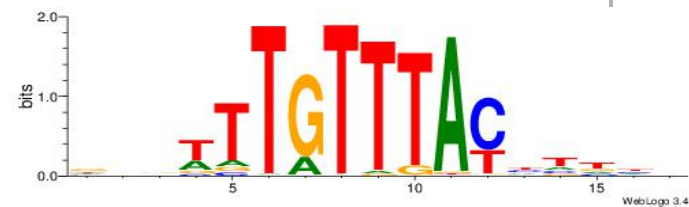
Original motif

Consensus sequence: HDHADGTAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00134](#)  
Motif name: Hoxb13  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward



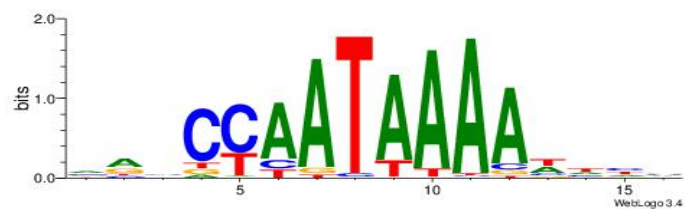
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00284772

Alignment:

VRHCCAATAAAAWHHV  
-----AAAAWAAA----

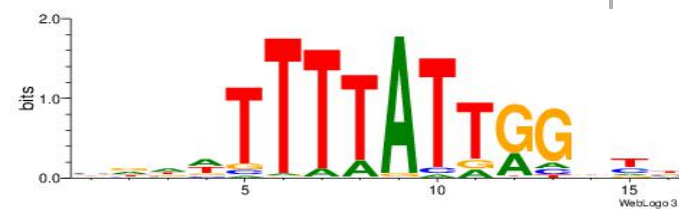
Original motif

Consensus sequence: VRHCCAATAAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



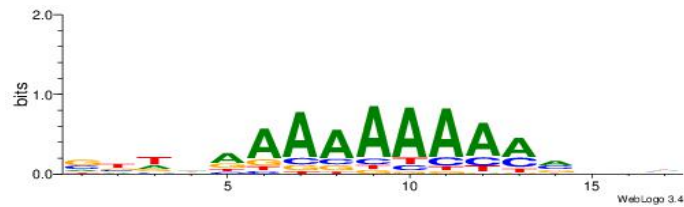
Motif ID: [UP00077](#)  
Motif name: Srf\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0029041

Alignment:

VBDDAAAAAAAAAMVBHH  
-----AAAAWAAA----

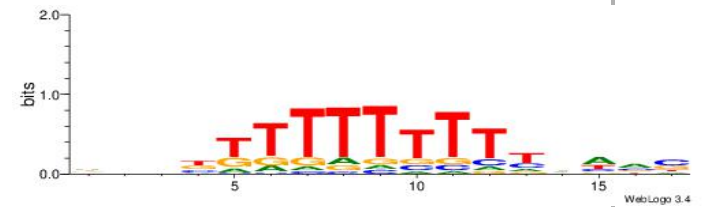
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTTDDVV



Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00413427

Alignment:

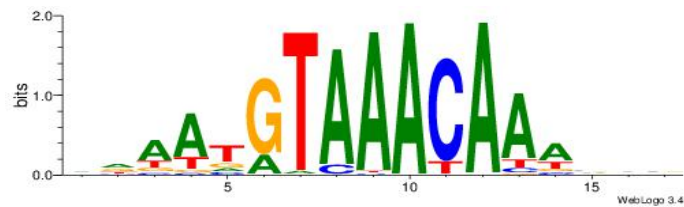
```

BBVTTTGTTTACATTDD
---TTTWTTTT-----

```

Original motif

Consensus sequence: DDAATGTAACAAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



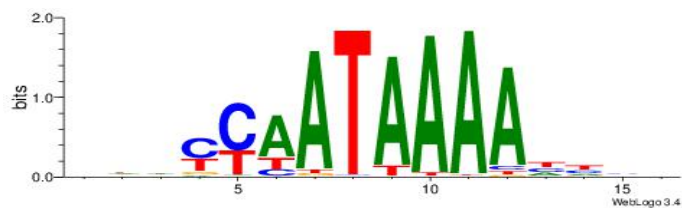
Motif ID: [UP00180](#)  
Motif name: Hoxd13  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.00521252

Alignment:

HDHYAATAAAAHHHH  
-----AAAAWAAA---

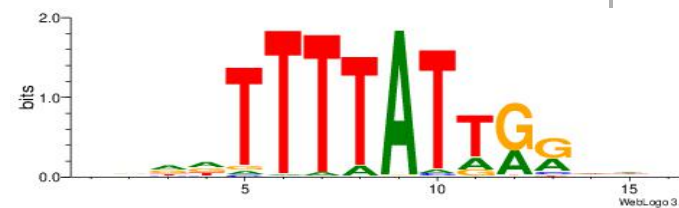
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00090](#)  
Motif name: Elf3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward

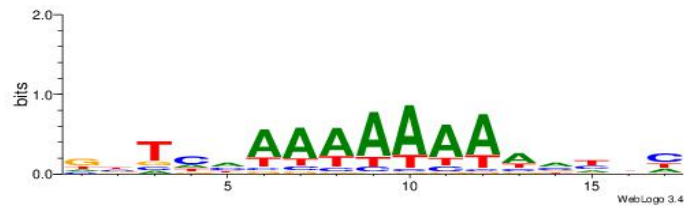
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0056978

Alignment:

DBTHHAAAAAAAAAVHDH  
-----AAAAWAAA-----

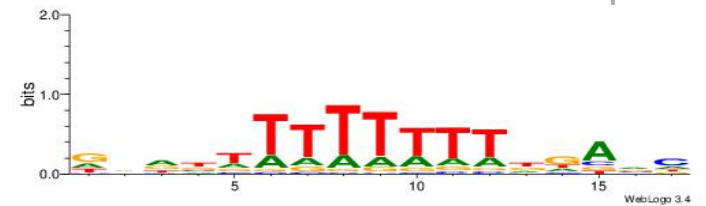
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



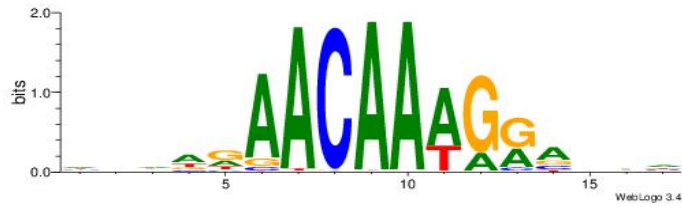
Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.00616244

Alignment:

HBDDRAACAAAGRABHH  
---AAAAWAAA-----

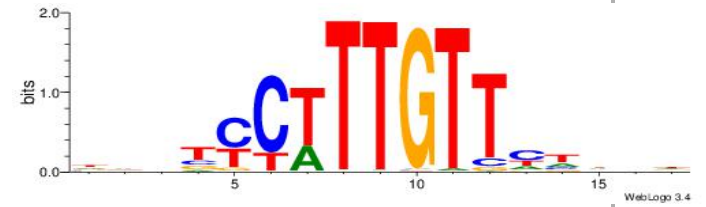
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00061](#)  
 Motif name: Foxl1\_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: 8  
 Similarity score: 0.00844854

Alignment:

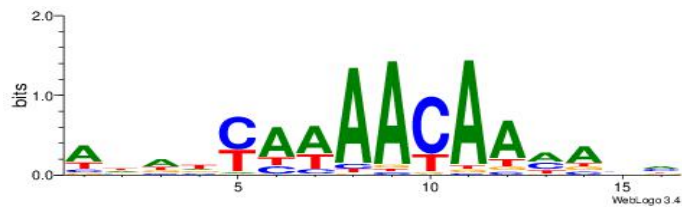
```

ADDDYAWAACAAMAHH
-----AAAAWAAA---

```

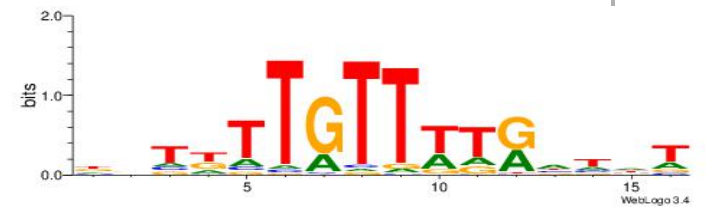
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



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

Original motif

Consensus sequence: CACACACA



Reverse complement motif

Consensus sequence: TGTGTGTG



### Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
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: 8  
Similarity score: 0

Alignment:

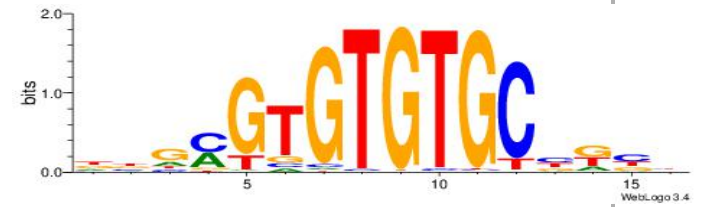
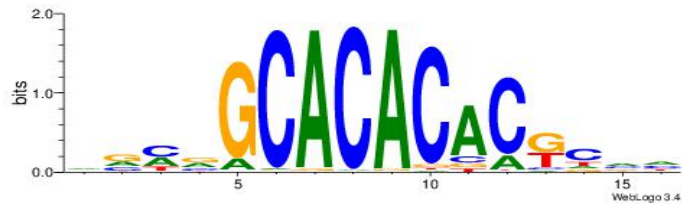
```
HBGYGTGTGTGCVRVD  
---TGTGTGTG-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

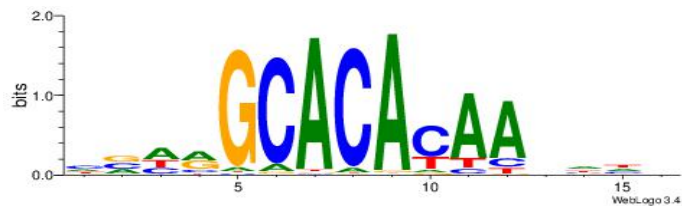


Motif ID: [UP00026](#)  
 Motif name: Zscan4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0178637

Alignment:  
 BHHHTTGTGTGCKHVD  
 -----TGTGTGTG---

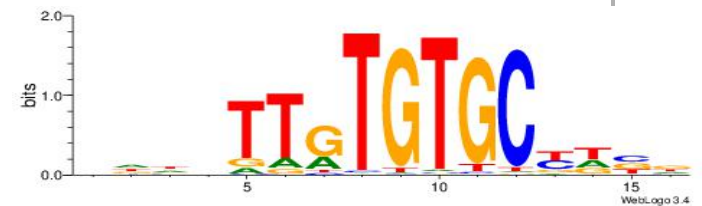
Original motif

Consensus sequence: HVHRGCACACAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00004](#)

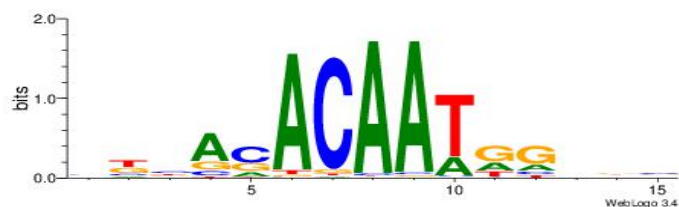
Motif name: Sox14\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0291592

Alignment:

BBDCMATTGTSTBRB  
 -----TGTGTGTG

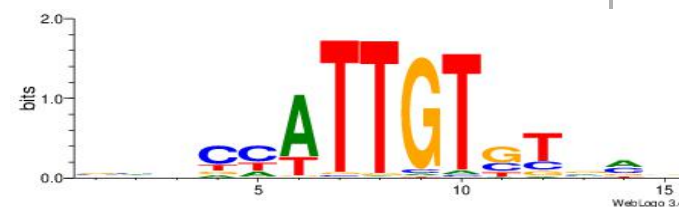
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB




---

Motif ID: [UP00042](#)  
 Motif name: Gm397\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 8



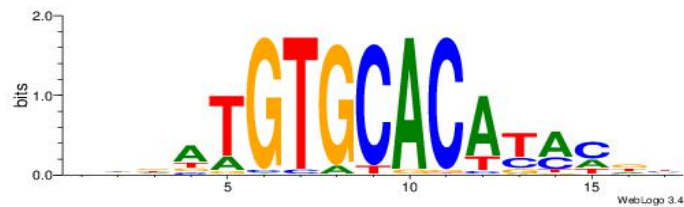
Similarity score: 0.0316665

Alignment:

HHRTATGTGCACATHHD  
-TGTGTGTG-----

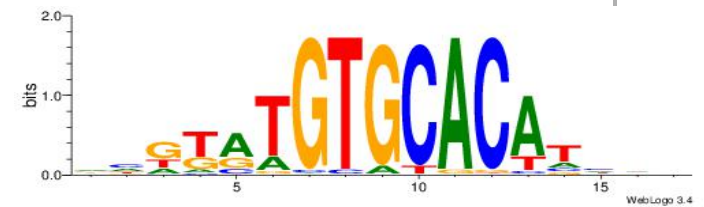
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



Motif ID: [UP00026](#)  
Motif name: Zscan4\_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: 8  
Similarity score: 0.0327662

Alignment:

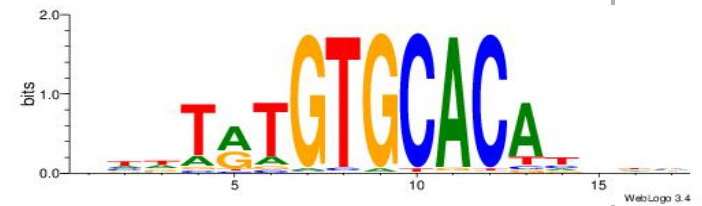
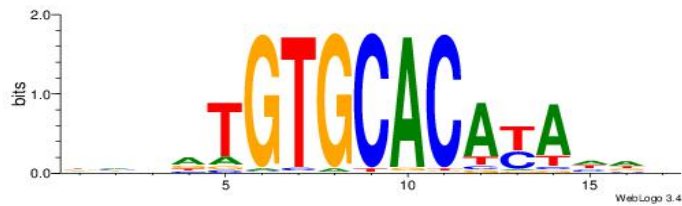
DHVDTGTGCACAYAHDH  
-----CACACACA-

Original motif

Consensus sequence: DHVDTGTGCACAYAHDH

Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



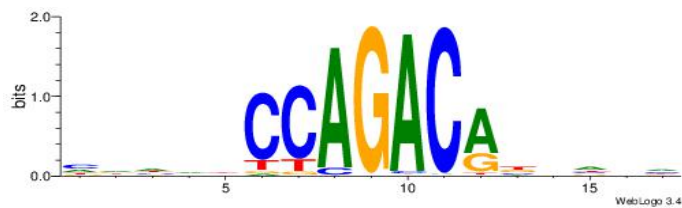
Motif ID: [UP00000](#)  
 Motif name: Smad3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0329902

**Alignment:**

HVHBVTGTCTGGDDHDD  
 -----TGTGTGTG-----

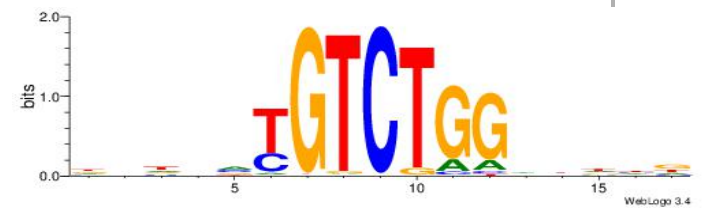
**Original motif**

Consensus sequence: HDHDDCCAGACABBHVH



**Reverse complement motif**

Consensus sequence: HVHBVTGTCTGGDDHDD



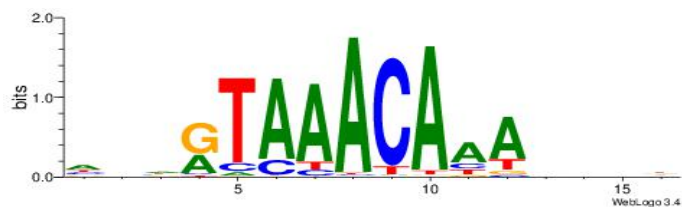
Motif ID: [UP00041](#)  
 Motif name: Foxj1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0361089

Alignment:

HDHRTAAACAAAHDDD  
 --CACACACA-----

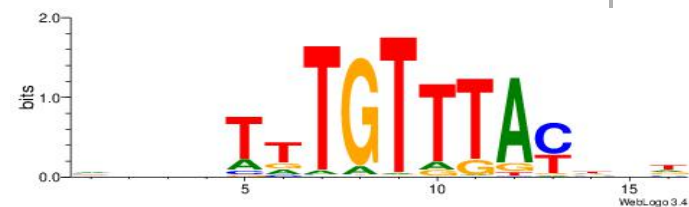
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDD

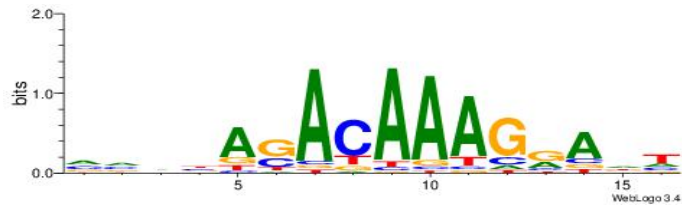


Motif ID: [UP00101](#)  
 Motif name: Sox12\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6

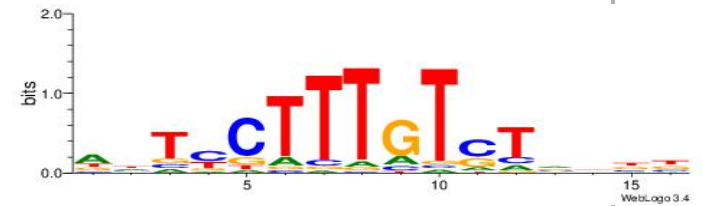
Number of overlap: 8  
Similarity score: 0.039766

Alignment:  
HDTMCTTTGTSTVDBB  
-----TGTGTGTG---

Original motif  
Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif  
Consensus sequence: HDTMCTTTGTSTVDBB



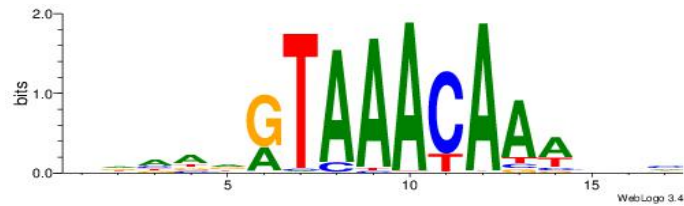
Motif ID: [UP00039](#)  
Motif name: Foxj3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0414454

Alignment:  
HDHADGTAAACAAAVVH  
-----CACACACA-----

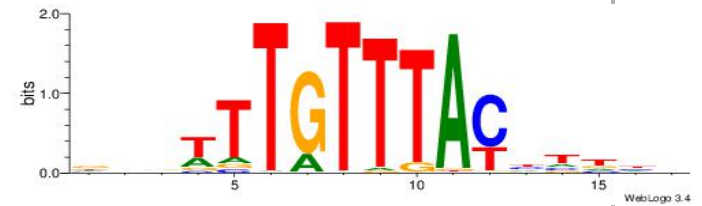
Original motif

Reverse complement motif

Consensus sequence: HDHADGTAACAAAVVH



Consensus sequence: DVVTTTGTTCACDTHDH



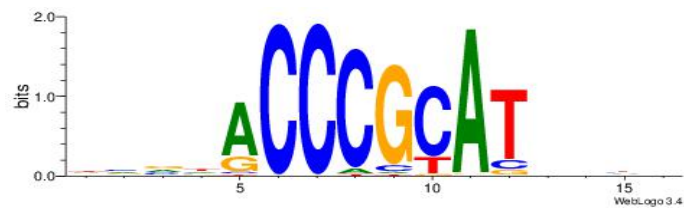
Motif ID: [UP00070](#)  
Motif name: Gcm1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0420768

Alignment:

HVVHACCCGCATVDHD  
---CACACACA-----

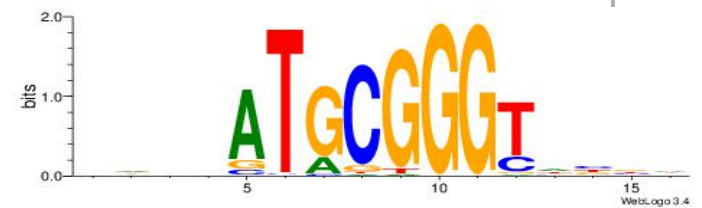
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



**Dataset #: 1**

**Motif ID: 3**

**Motif name: Motif 3**

Original motif

Consensus sequence: AWATAMA



Reverse complement motif

Consensus sequence: TYTATWT



### Best Matches for Motif ID 3 (Highest to Lowest)

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: 5  
Number of overlap: 7  
Similarity score: 0

Alignment:

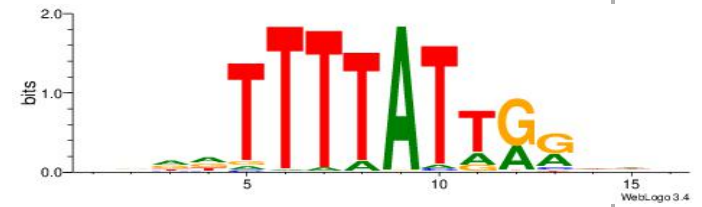
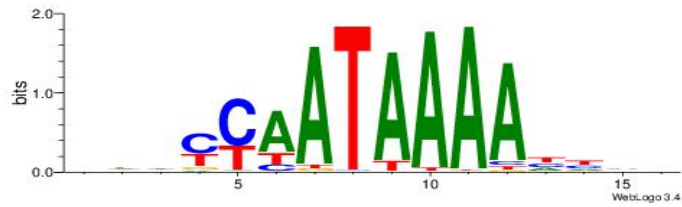
```
HDHHTTTTATTKKHDD  
-----TYTATWT-----
```

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

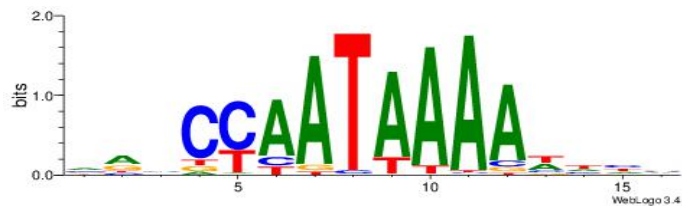


Motif ID: [UP00134](#)  
 Motif name: Hoxb13  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 7  
 Similarity score: 0.0065385

Alignment:  
 VDHWT TTTATTGGDKB  
 -----TYTATWT-----

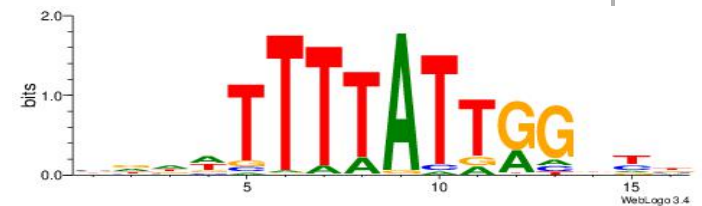
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWT TTTATTGGDKB



Motif ID: [UP00121](#)

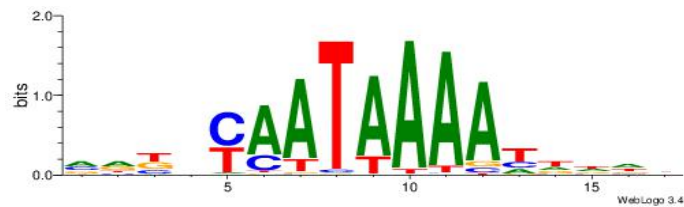
Motif name: Hoxd10  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 7  
 Similarity score: 0.0124058

Alignment:

HDDDATTTTATTKVRDB  
 -----TYTATWT-----

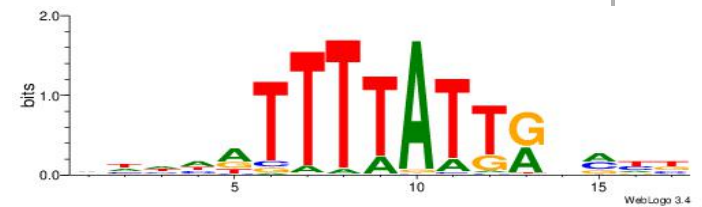
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB




---

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: 7



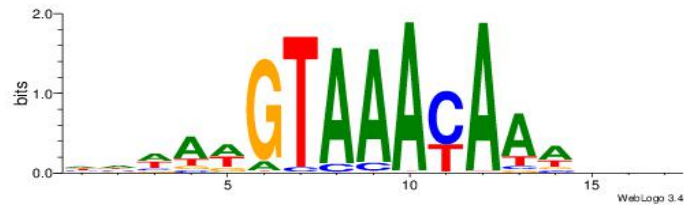
Similarity score: 0.0126252

Alignment:

HHWAWGTAAAYAAAVDB  
-----AWATAMA----

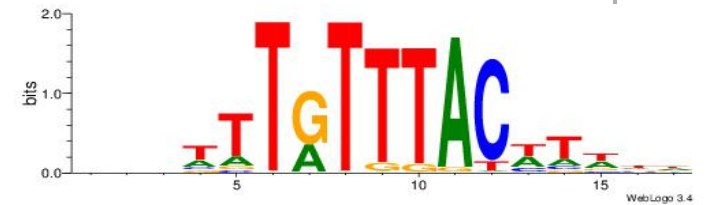
Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTHHH



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: 7  
Similarity score: 0.0147643

Alignment:

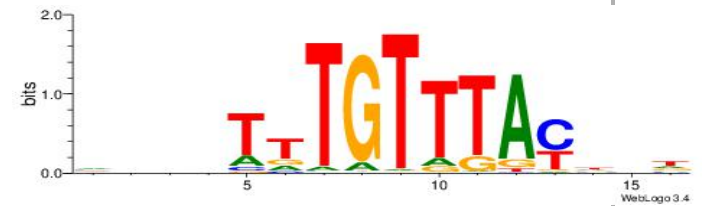
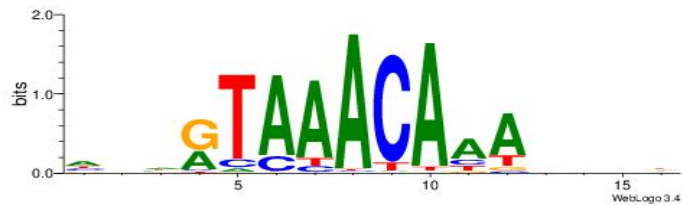
HDHRTAAACAAAHDDD  
-----AWATAMA----

Original motif

Consensus sequence: HDHRTAAACAAAHDDD

Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



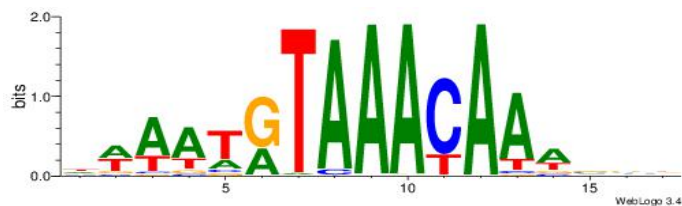
Motif ID: [UP00061](#)  
 Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 7  
 Similarity score: 0.0182155

**Alignment:**

DWAATR TAAACA AWVVB  
 -----AWATAMA----

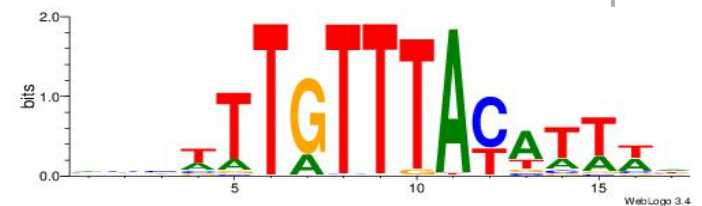
**Original motif**

Consensus sequence: DWAATR TAAACA AWVVB



**Reverse complement motif**

Consensus sequence: V V V W T T G T T T A M A T T W D



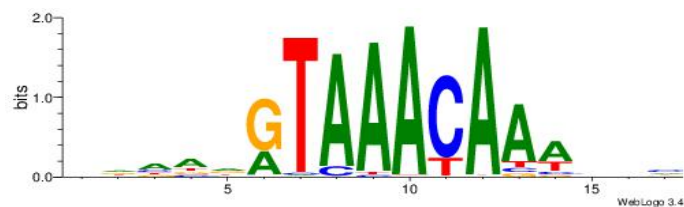
Motif ID: [UP00039](#)  
 Motif name: Foxj3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 7  
 Similarity score: 0.0194168

Alignment:

HDHADGTAAACAAAVVH  
 -----AWATAMA----

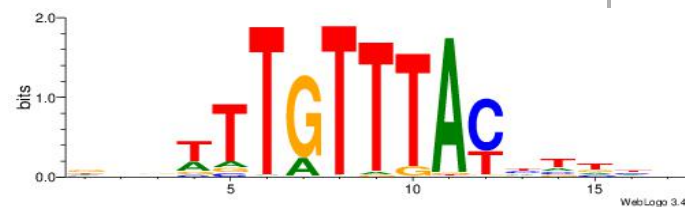
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH

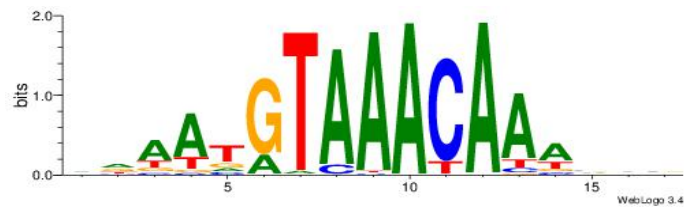


Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8

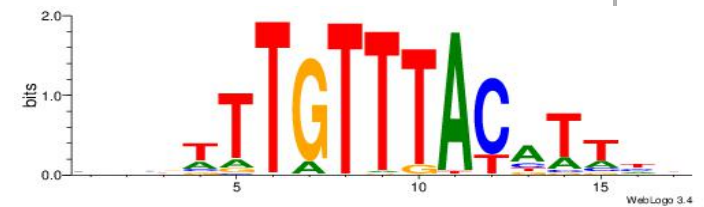
Number of overlap: 7  
Similarity score: 0.0214053

Alignment:  
DDAATGTAAACAAAVVB  
-----AWATAMA----

Original motif  
Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif  
Consensus sequence: BBVTTTGTTTACATDD



---

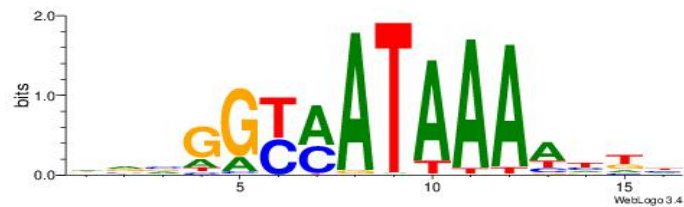
Motif ID: [UP00133](#)  
Motif name: Cdx2  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 7  
Similarity score: 0.0216297

Alignment:  
DVVGGYMATAAAAHKH  
-----AWATAMA-----

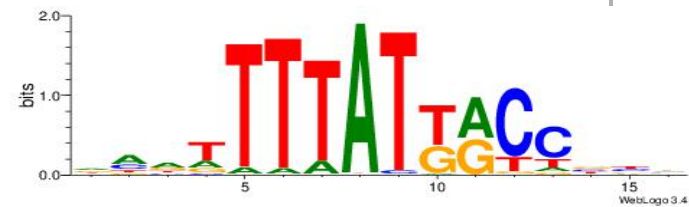
Original motif

Reverse complement motif

Consensus sequence: DVVGGYMATAAAHKH



Consensus sequence: HRHTTTTATYMCCVBD



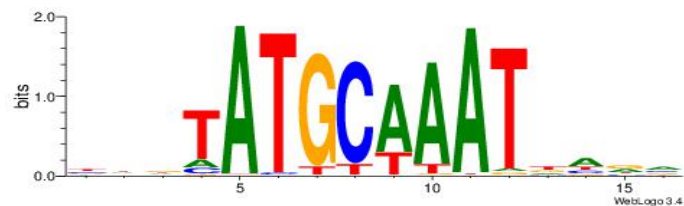
Motif ID: [UP00191](#)  
Motif name: Pou2f2  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 9  
Number of overlap: 7  
Similarity score: 0.0237828

Alignment:

```
BHDTATGCAAATDHDV  
-----AWATAMA--
```

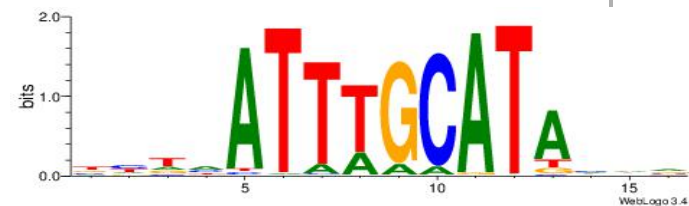
Original motif

Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



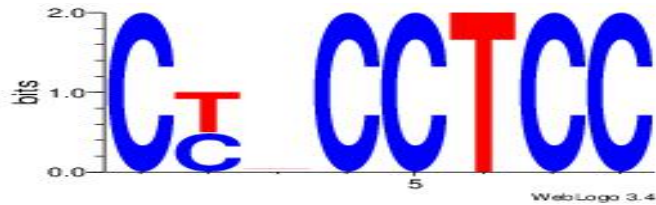
**Dataset #: 1**

**Motif ID: 4**

**Motif name: Motif 4**

Original motif

Consensus sequence: CYBCCTCC



Reverse complement motif

Consensus sequence: GGAGGVMG



### Best Matches for Motif ID 4 (Highest to Lowest)

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: 4  
Number of overlap: 8  
Similarity score: 0.0047591

Alignment:

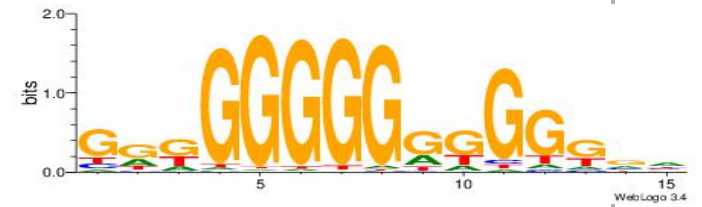
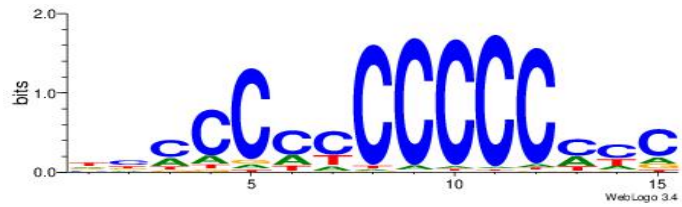
```
DBCCCCCCCCCMYC  
-----CYBCCTCC----
```

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

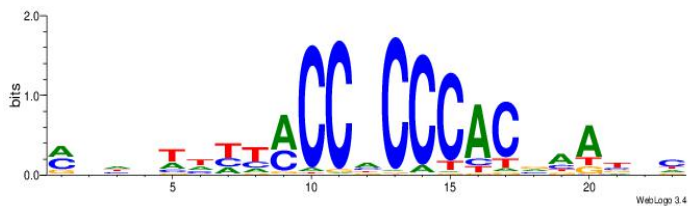
Consensus sequence: GKRGGGGGGGGGBD



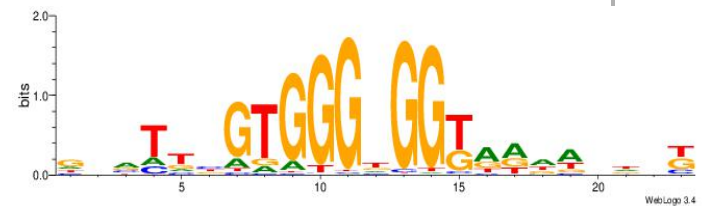
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.0211234

Alignment:  
 MHHHWHYTMCCCHCCCACVAABVH  
 -----CYBCCTCC-----

Original motif  
 Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif  
 Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00540](#)

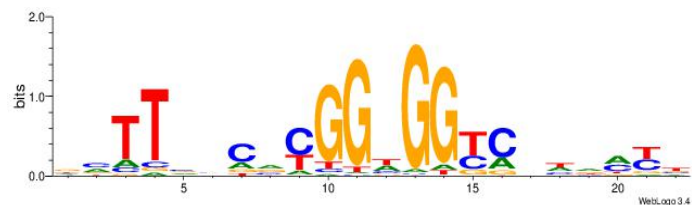
Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 10  
 Number of overlap: 8  
 Similarity score: 0.0214303

**Alignment:**

DVTTVVCVYGGHGGYCHHDMYB  
 -----GGAGGVMG-----

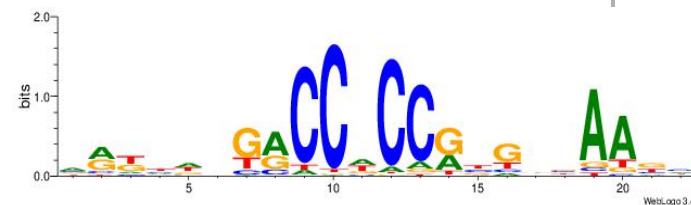
**Original motif**

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



**Reverse complement motif**

Consensus sequence: VMYDHDGMCCCHCKKBGVVAHVH




---

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: Forward  
 Position number: 2  
 Number of overlap: 8



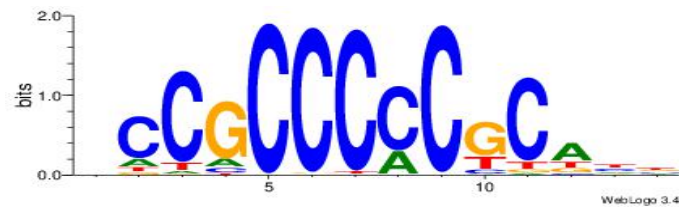
Similarity score: 0.0215351

Alignment:

HCCGCCCCCGCAHB  
-CYBCCTCC-----

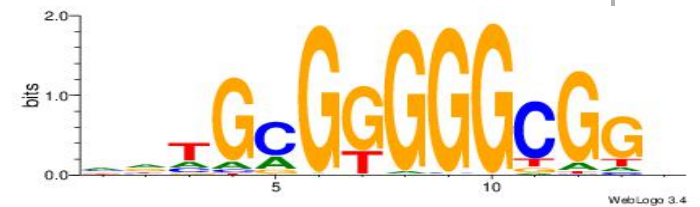
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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: Forward  
Position number: 3  
Number of overlap: 8  
Similarity score: 0.0262858

Alignment:

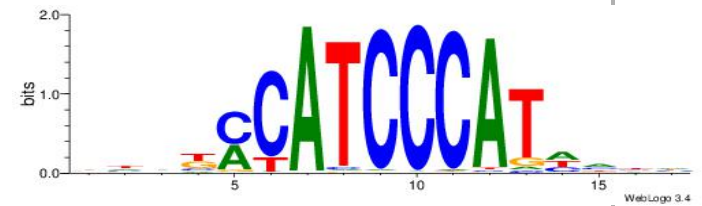
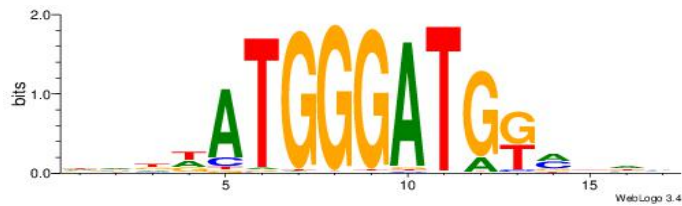
BDDYYCATCCCATDDBD  
--CYBCCTCC-----

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



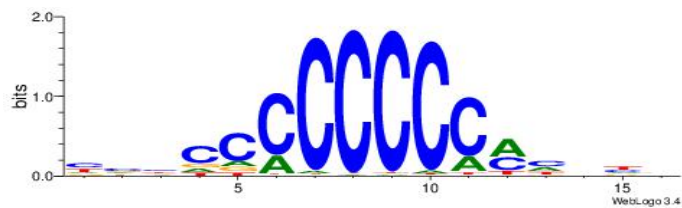
Motif ID: [UP00022](#)  
 Motif name: Zfp740\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0273549

**Alignment:**

HVBCCCCCCCCMHHHB  
 ---CYBCCTCC-----

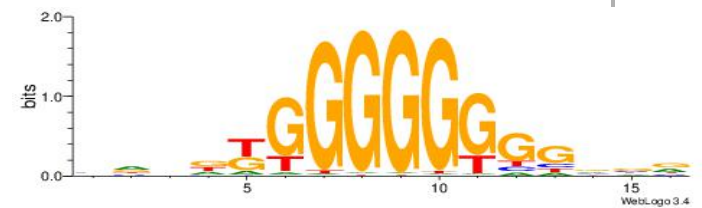
**Original motif**

Consensus sequence: HVBCCCCCCCCMHHHB



**Reverse complement motif**

Consensus sequence: BHHDYGGGGGGGGBVD



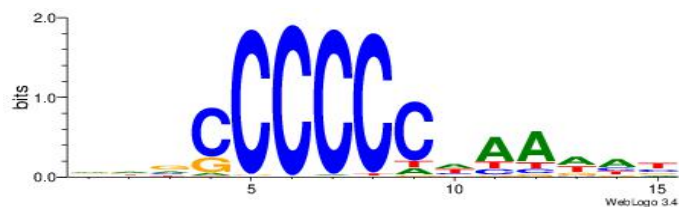
Motif ID: [UP00047](#)  
 Motif name: Zbtb7b\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.0294721

**Alignment:**

VHWTTTHGGGGGGVDD  
 -----GGAGGVMG-

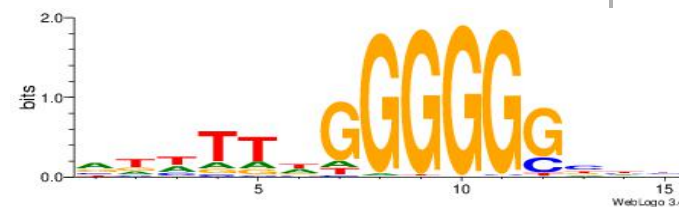
**Original motif**

Consensus sequence: DDVCCCCCHAAWHB



**Reverse complement motif**

Consensus sequence: VHWTTTHGGGGGGVDD



Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3

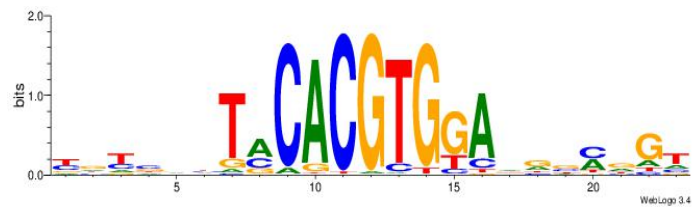
Number of overlap: 8  
Similarity score: 0.0296935

Alignment:

YDYBDHTMCACGTGGADDBMDGT  
-----GGAGGVMG--

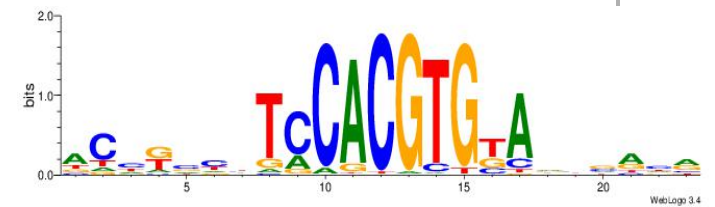
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBDHTCCACGTGYAHHBMHM



Motif ID: [UP00022](#)  
Motif name: Zfp740\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.0314233

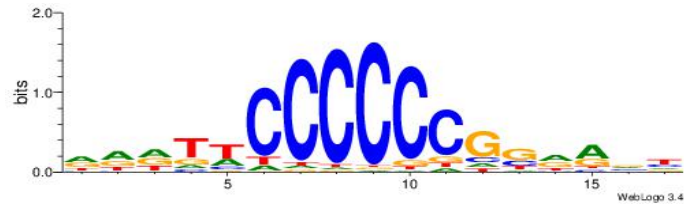
Alignment:

HVKDCCGGGGGGWADDD  
-----GGAGGVMG--

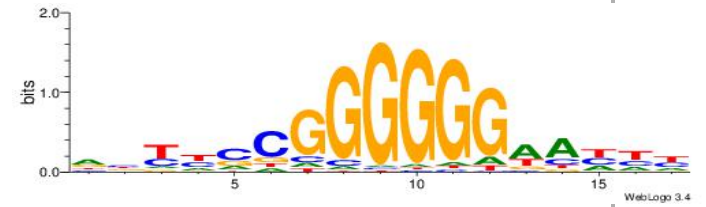
Original motif

Reverse complement motif

Consensus sequence: DDDTWCCCCCGGDRVH



Consensus sequence: HVKDCCGGGGGGWADDD



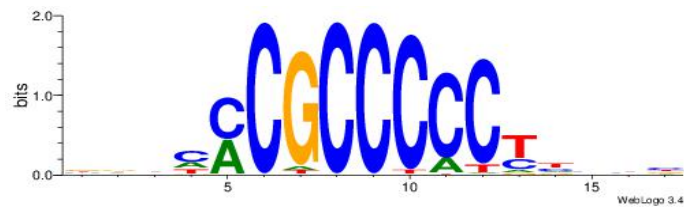
Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0324346

Alignment:

```
BDHHMCGCCCCCTHVBB  
----CYBCCTCC-----
```

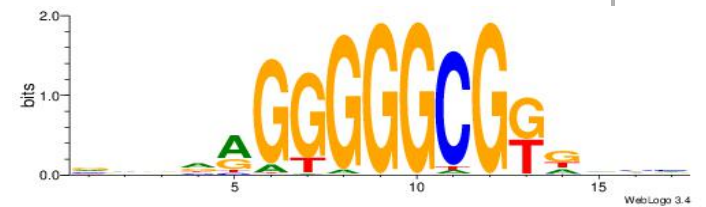
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



**Dataset #: 1**

**Motif ID: 5**

**Motif name: Motif 5**

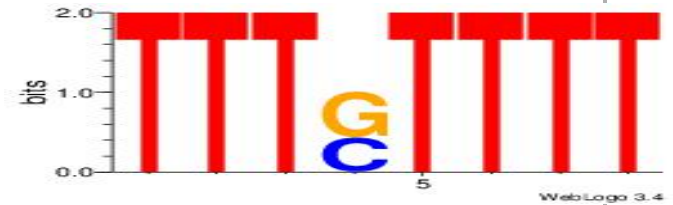
Original motif

Consensus sequence: AAAASAAA



Reverse complement motif

Consensus sequence: TTTSTTTT



### Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID:	<a href="#">UP00062</a>
Motif name:	Sox4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0

Alignment:

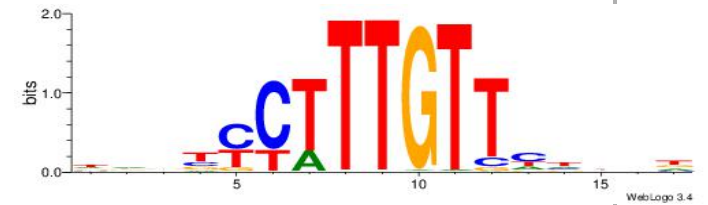
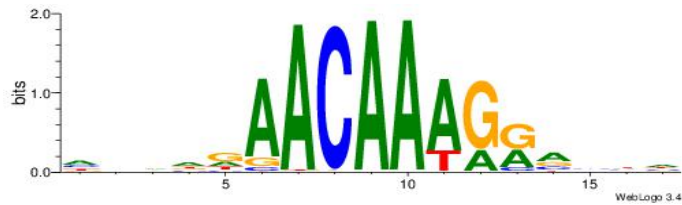
```
HBDDDAACAAAGRVBHH  
---AAAASAAA-----
```

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHTDDBH

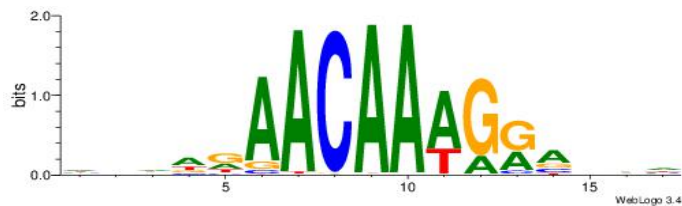


Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.000128474

Alignment:  
 HBDDRAACAAAGRABHH  
 ---AAAASAAA-----

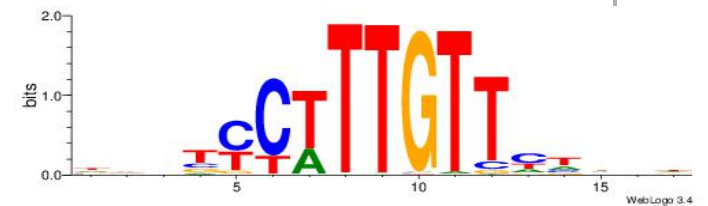
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00061](#)

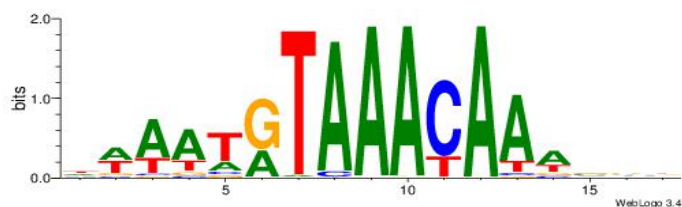
Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.000164173

Alignment:

DWAATR~~TAAACA~~WVVB  
 -----AAAASAAA-----

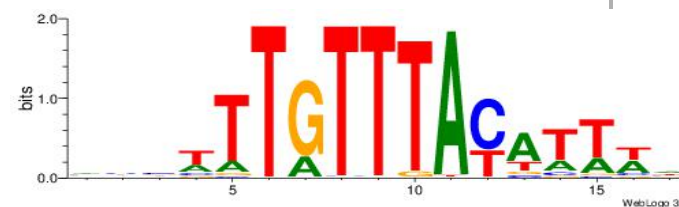
Original motif

Consensus sequence: DWAATR~~TAAACA~~WVVB



Reverse complement motif

Consensus sequence: VVWTTGTTAMATTWD




---

Motif ID: [UP00025](#)  
 Motif name: Foxk1\_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: 8



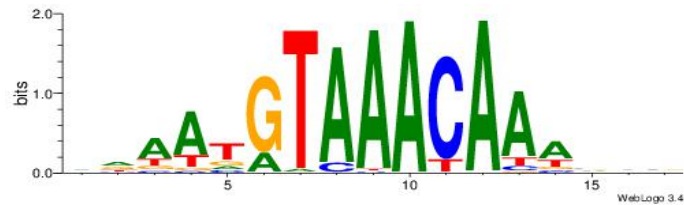
Similarity score: 0.000213551

Alignment:

DDAATGTAAACAAAVVB  
-----AAAASAAA----

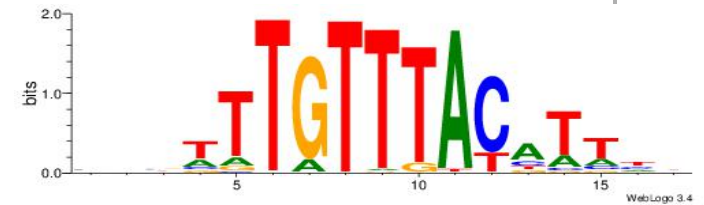
Original motif

Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



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: Forward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0017146

Alignment:

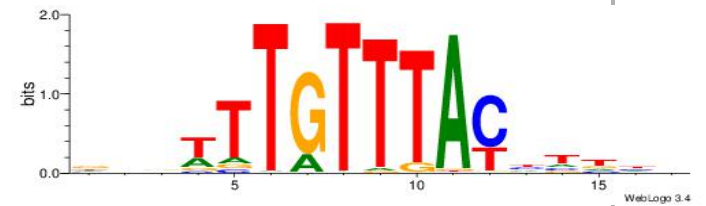
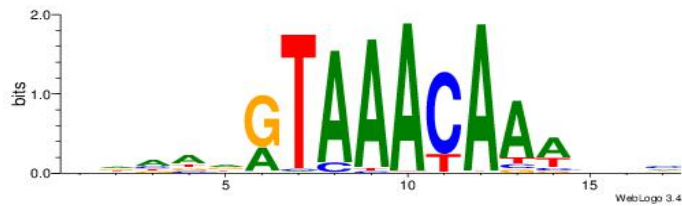
HDHADGTAAACAAAVVH  
-----AAAASAAA----

Original motif

Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH

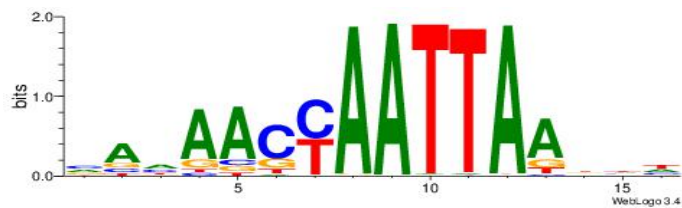


Motif ID: [UP00171](#)  
 Motif name: Msx3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 8  
 Similarity score: 0.00344628

Alignment:  
 HHVTTAATTKGTTHTV  
 -----TTTSTTTT-

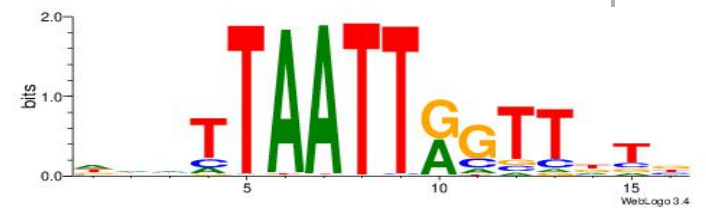
Original motif

Consensus sequence: VAHAACYAATTAABHH



Reverse complement motif

Consensus sequence: HHVTTAATTKGTTHTV

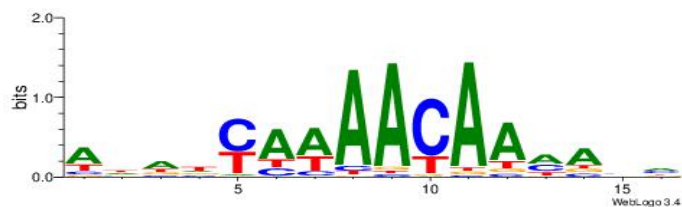


Motif ID: [UP00061](#)  
 Motif name: Foxl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0055484

Alignment:  
 ADDDYAWAACAAMAHH  
 -----AAAASAAA----

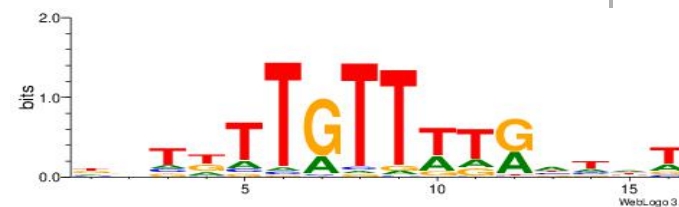
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT

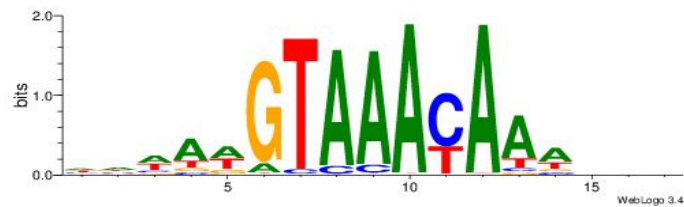


Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4

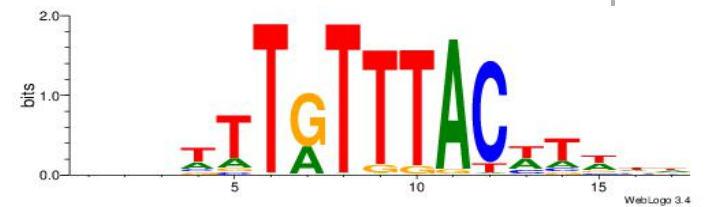
Number of overlap: 8  
Similarity score: 0.00600115

Alignment:  
HHWAWGTAAAYAAAVDB  
-----AAAASAAA----

Original motif  
Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif  
Consensus sequence: BDVTTTKTTTACWTWHH



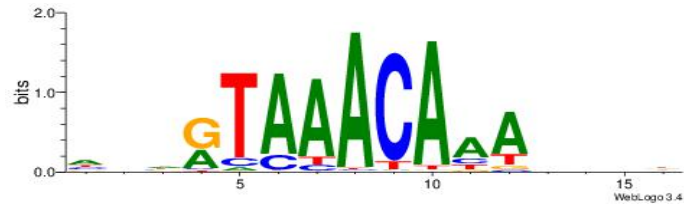
Motif ID: [UP00041](#)  
Motif name: Foxj1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0108329

Alignment:  
DDDHTTTGTTTAMHDH  
----TTTSTTTT----

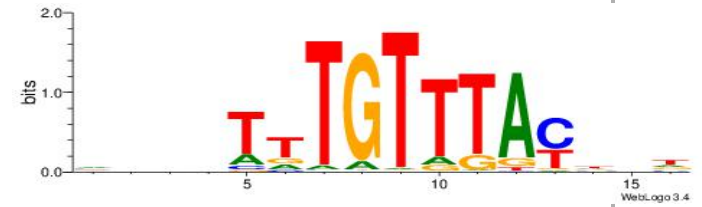
Original motif

Reverse complement motif

Consensus sequence: HDHRTAAACAAHDDD



Consensus sequence: DDDHTTTGTTTAMHDDH



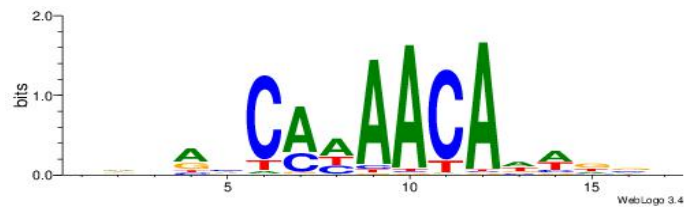
Motif ID: [UP00039](#)  
Motif name: Foxj3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0126083

Alignment:

```
HDBAHCAWAACADWDVD  
-----AAAASAAA----
```

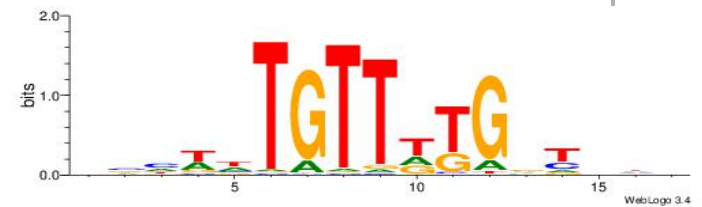
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



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

Original motif

Consensus sequence: CCCCRCCC



Reverse complement motif

Consensus sequence: GGGKGGGG



### Best Matches for Motif ID 6 (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: 5  
Number of overlap: 8  
Similarity score: 0

Alignment:

HBDRCCMCGCCCHHHD

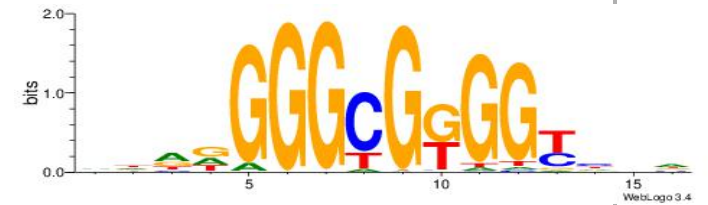
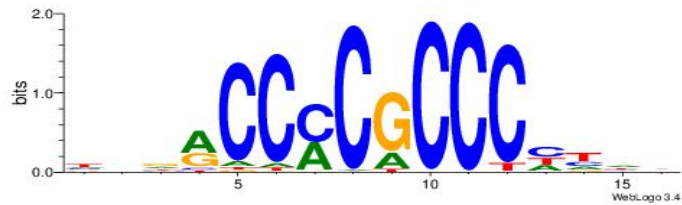
----CCCCRCCC----

Original motif

Consensus sequence: HBDRCCMCGCCCHHHD

Reverse complement motif

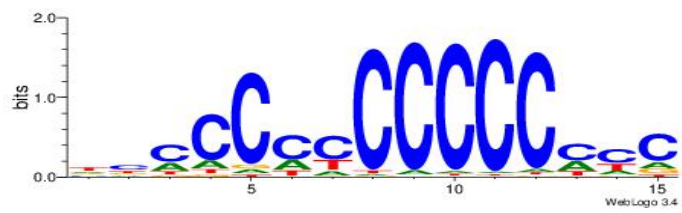
Consensus sequence: DHHDGGGCGRGGKHBH



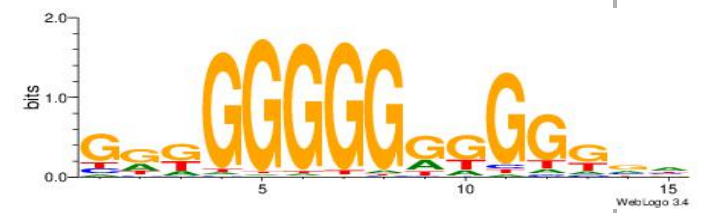
Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0189858

Alignment:  
 GKRGGGGGGGGGGBD  
 -----GGGKGGGG--

Original motif  
 Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif  
 Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00022](#)

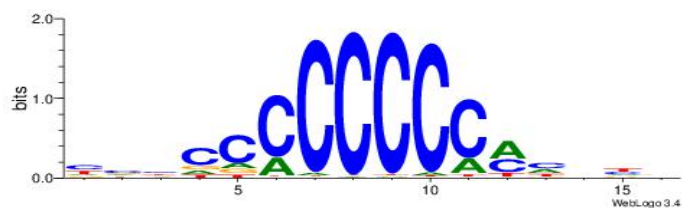
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0254924

Alignment:

BHHDYGGGGGGGBVD  
-----GGGKGGGG---

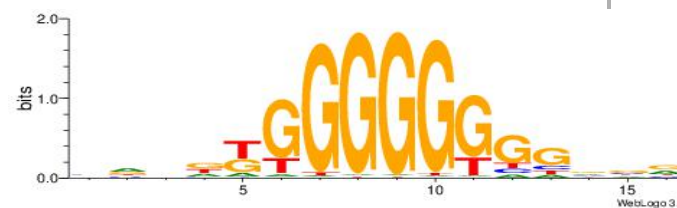
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGBVD



---

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: 8  
Number of overlap: 8



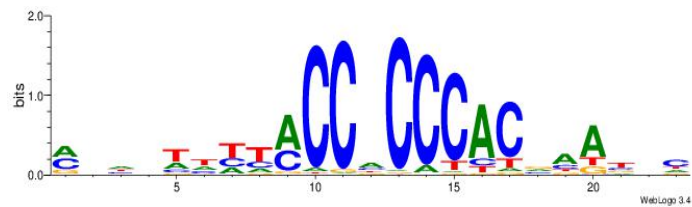
Similarity score: 0.0344544

Alignment:

MHHHWHYTMCCCHCCCACVAABVH  
-----CCCCRCCC-----

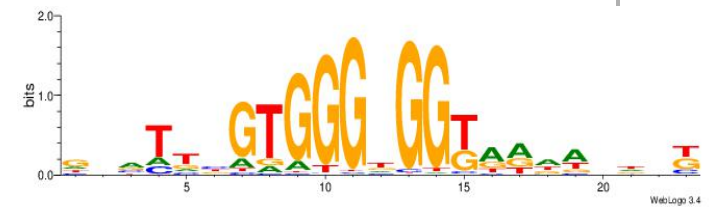
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00007](#)  
Motif name: Egr1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0351247

Alignment:

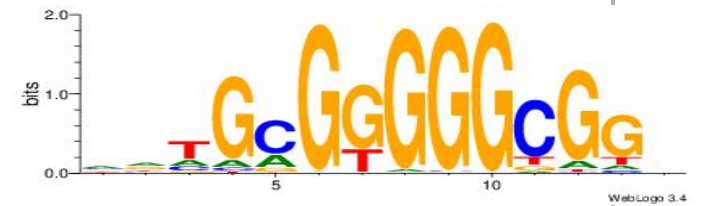
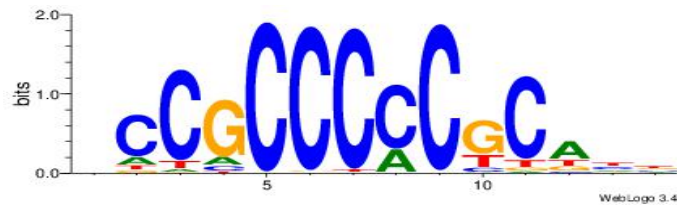
VHTGCGGGGGCGGH  
-----GGGKGGG-

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



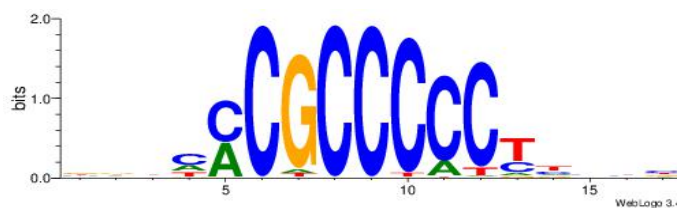
Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0379829

**Alignment:**

BDHHMCGCCCCCTHVBB  
 --CCCCRCCC-----

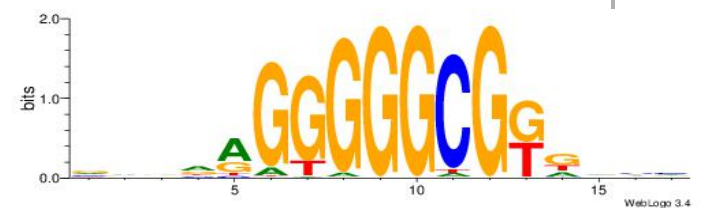
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB

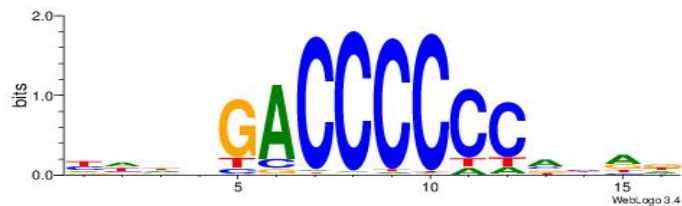


Motif ID: [UP00024](#)  
 Motif name: Glis2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0387654

Alignment:  
 HKBBGGGGGGTTCVHHH  
 --GGGKGGG-----

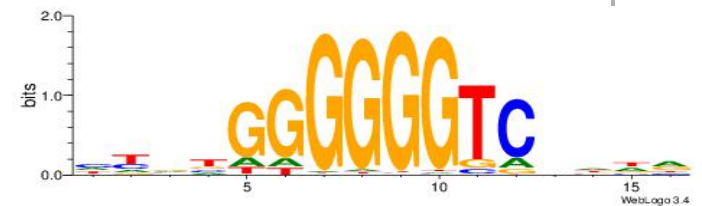
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTTCVHHH

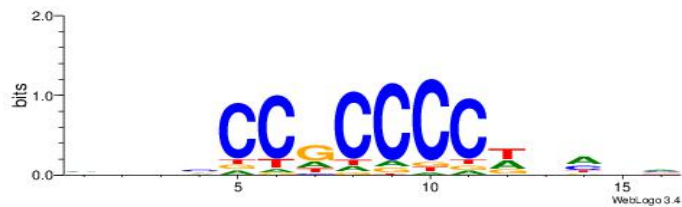


Motif ID: [UP00043](#)  
 Motif name: Bcl6b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7

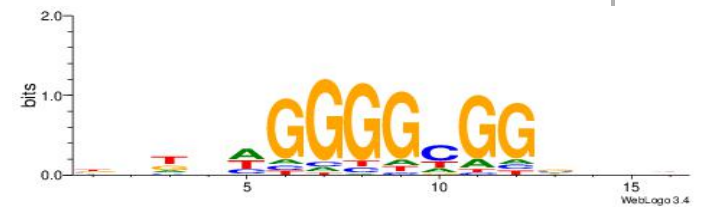
Number of overlap: 8  
Similarity score: 0.044983

Alignment:  
HBBBCCGCCCCWHHHV  
--CCCCRCCC-----

Original motif  
Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif  
Consensus sequence: BHHHWGGGGCGGBBVH



---

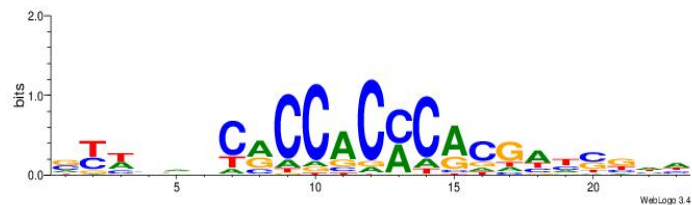
Motif ID: [UP00540](#)  
Motif name: Gli3\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0449971

Alignment:  
HHBSHTCGTGRGTGGKGDBVWMV  
-----GGGKGGGG-----

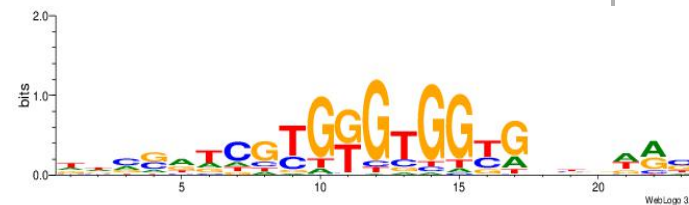
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGBVWMV



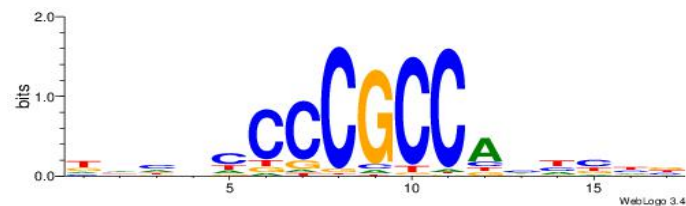
Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0452062

Alignment:

```
DHHBCCCGCCAHHBHB  
----CCCRCCC-----
```

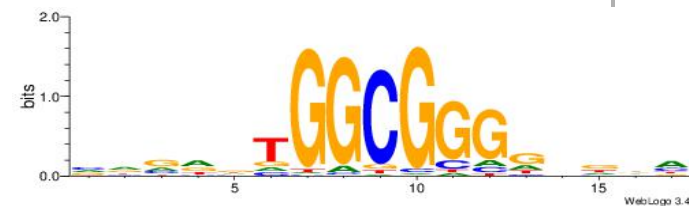
Original motif

Consensus sequence: DHHBCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



**Dataset #: 1**

**Motif ID: 7**

**Motif name: Motif 7**

Original motif

Consensus sequence: ASASAGAA



Reverse complement motif

Consensus sequence: TTCTSTST



### Best Matches for Motif ID 7 (Highest to Lowest)

Motif ID: [UP00032](#)  
Motif name: Gata3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0

Alignment:

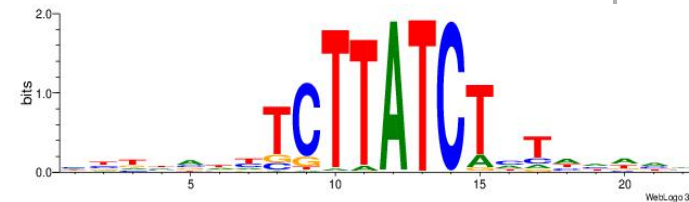
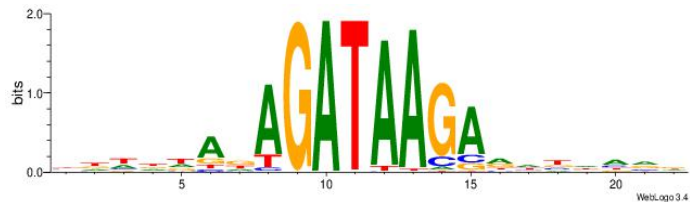
```
BDHDDADAGATAAGADHBDHVD  
-----ASASAGAA-----
```

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV

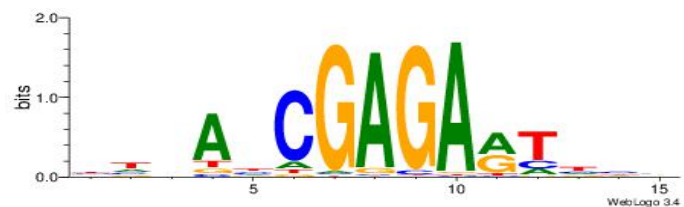


Motif ID: [UP00040](#)  
 Motif name: Irf5\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.00562375

Alignment:  
 BDAHCGAGARTHBV  
 ---ASASAGAA----

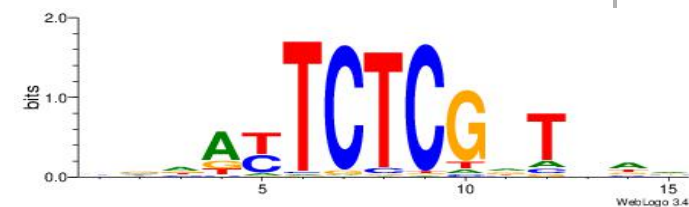
Original motif

Consensus sequence: BDAHCGAGARTHBV



Reverse complement motif

Consensus sequence: VBHAKTCTCGHTHHV



Motif ID: [UP00101](#)

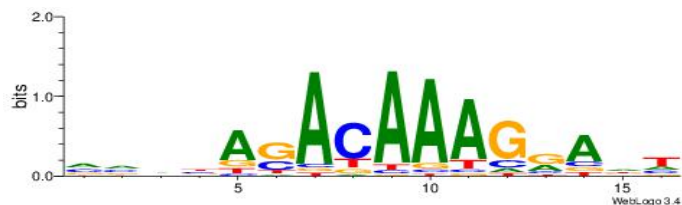
Motif name: Sox12\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 8  
Similarity score: 0.0120605

Alignment:

VVDBASACAAAGRADH  
--ASASAGAA-----

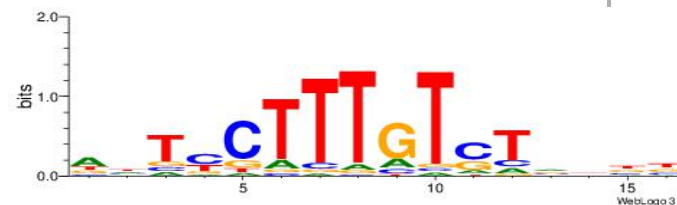
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



---

Motif ID: [UP00018](#)  
Motif name: Irf4\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8



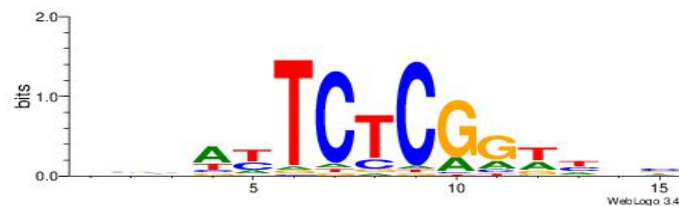
Similarity score: 0.017471

Alignment:

BHHWCCGAGAMTVVB  
---ASASAGAA----

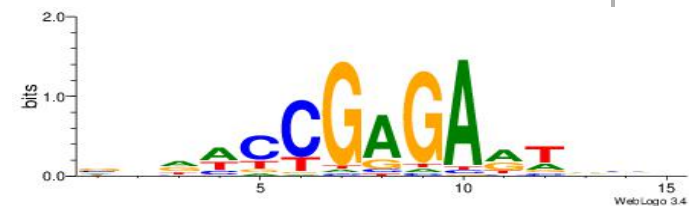
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [UP00090](#)  
Motif name: Elf3\_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: 8  
Similarity score: 0.018291

Alignment:

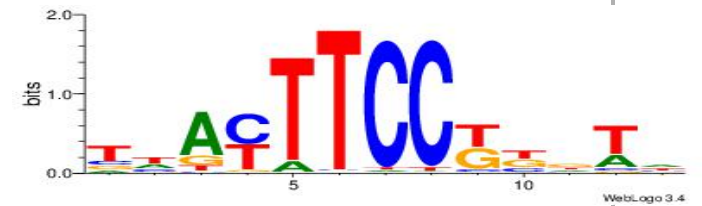
TDAMTTCCYYDTD  
----TTCTSTST-

Original motif

Consensus sequence: DAHMMGGAARTDA

Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



Motif ID: [UP00004](#)  
 Motif name: Sox14\_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: 0.0185351

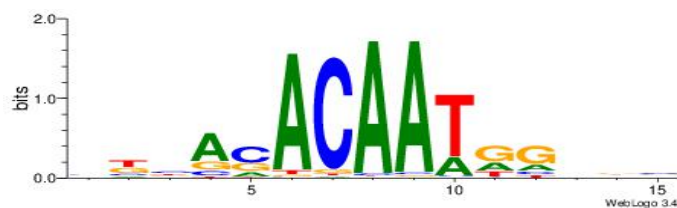
Alignment:

```

BBD CMATTGTSTBRB
-----TTCTSTST-
  
```

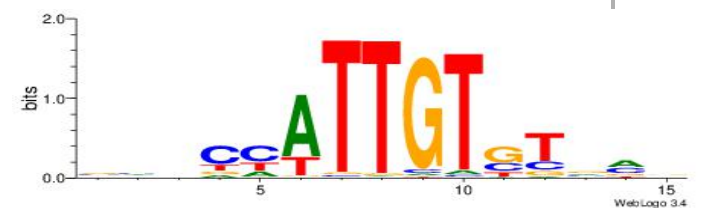
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBD CMATTGTSTBRB

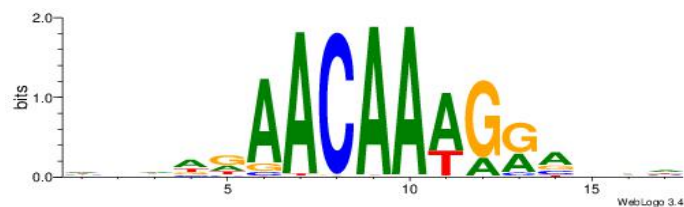


Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0187871

Alignment:  
 HBDDRAACAAAGRABHH  
 -----ASASAGAA----

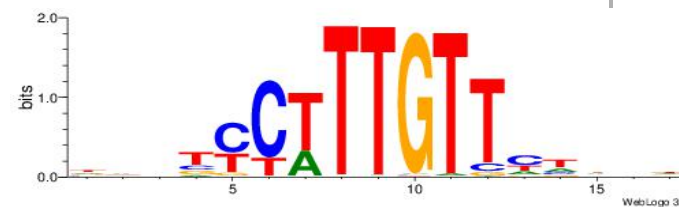
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH

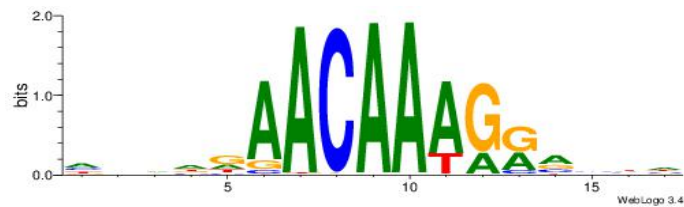


Motif ID: [UP00062](#)  
 Motif name: Sox4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4

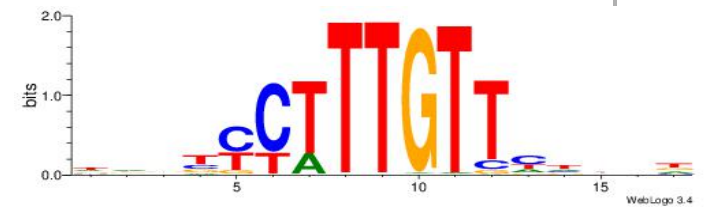
Number of overlap: 8  
Similarity score: 0.0188246

Alignment:  
HBDDDAACAAAGRVBHH  
-----ASASAGAA----

Original motif  
Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif  
Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00409](#)  
Motif name: Elf5  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 8  
Similarity score: 0.0192614

Alignment:  
BWAHSMGGAAGTWD  
--ASASAGAA----

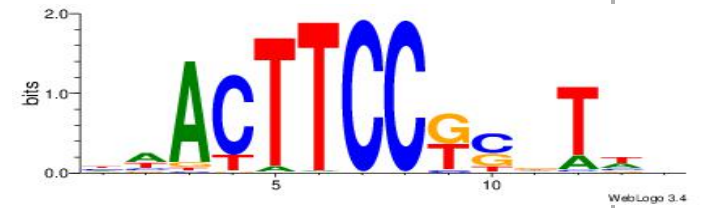
Original motif

Reverse complement motif

Consensus sequence: BWAHSMGGAAGTWD



Consensus sequence: DWACTTCCRSDTWV



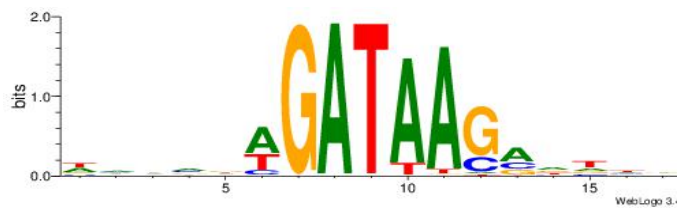
Motif ID: [UP00100](#)  
Motif name: Gata6\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0192685

Alignment:

```
VHDDTCTTATCW HBDHD  
-----TTCTSTST----
```

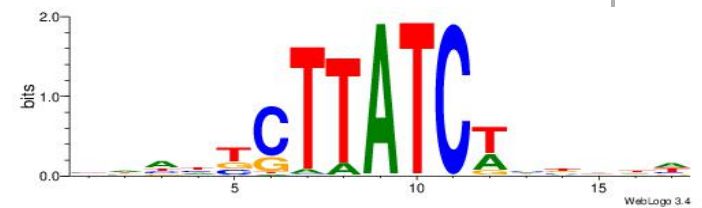
Original motif

Consensus sequence: DHDVDWGATAAGADDHV



Reverse complement motif

Consensus sequence: VHDDTCTTATCW HBDHD



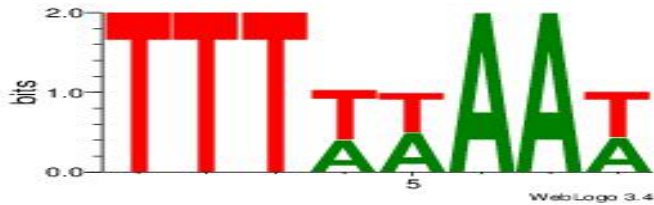
**Dataset #: 1**

**Motif ID: 8**

**Motif name: Motif 8**

Original motif

Consensus sequence: TTTWAAW



Reverse complement motif

Consensus sequence: WTTWWAAA



### Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID:	<a href="#">UP00061</a>
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0113493

Alignment:

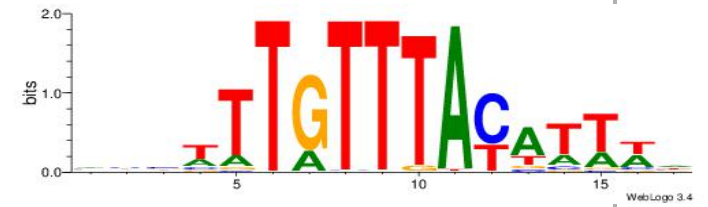
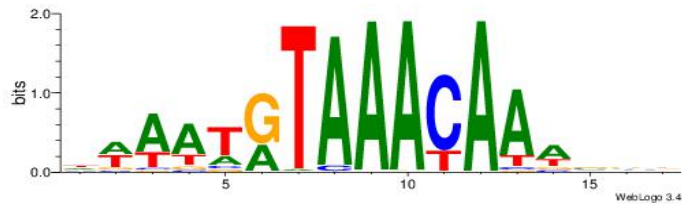
```
VVWTTGTTTAMATTWD  
-----TTTWWAAW--
```

Original motif

Consensus sequence: DWAATRCAAACAAWVVB

Reverse complement motif

Consensus sequence: VVWTTGTTTAMATTWD

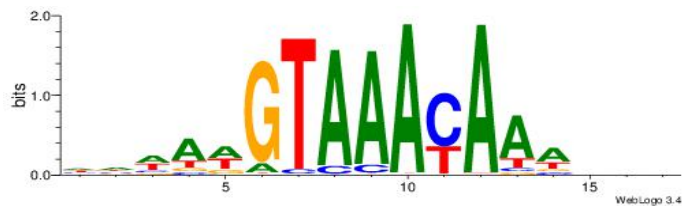


Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0142946

Alignment:  
 BDVTTTKTTTACWTWHH  
 -----TTTWAAW-----

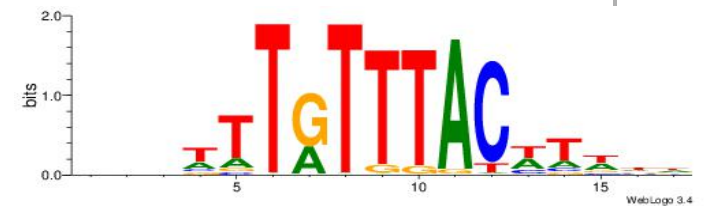
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



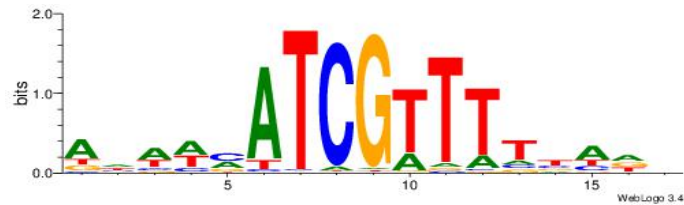
Motif ID: [UP00114](#)

Motif name: Homez  
 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: 8  
 Similarity score: 0.0164944

Alignment:  
 HDTVAAAACGATRWWHT  
 WTTWWAAA-----

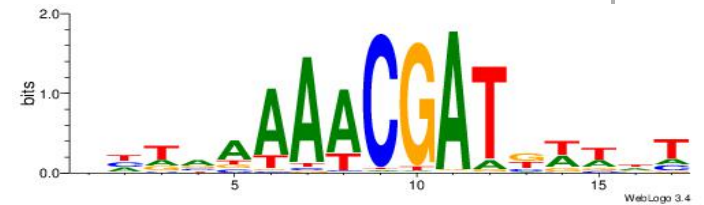
Original motif

Consensus sequence: AHWWMATCGTTTTBADD



Reverse complement motif

Consensus sequence: HDTVAAAACGATRWWHT



Motif ID: [UP00262](#)  
 Motif name: Lhx1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0167097

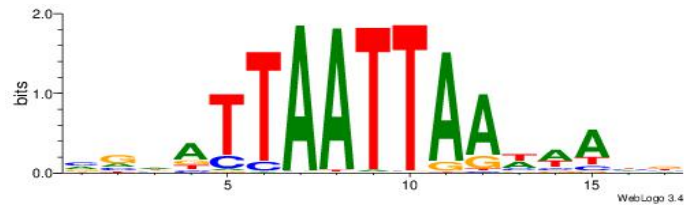


Alignment:

VVDATTAATTAAWWAHB  
-----WTTWWAAA--

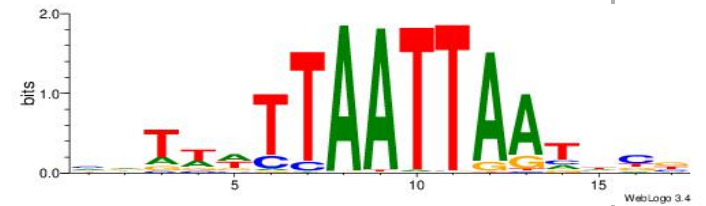
Original motif

Consensus sequence: VVDATTAATTAAWWAHB



Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV



---

Motif ID: [UP00134](#)  
Motif name: Hoxb13  
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: 0.0168038

Alignment:

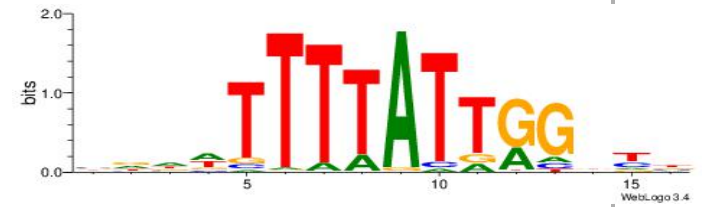
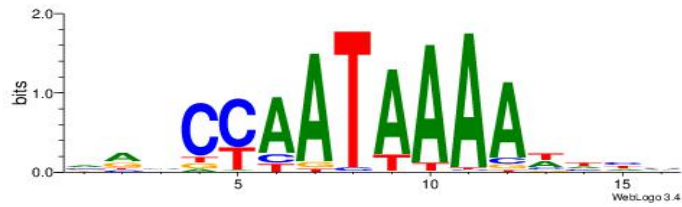
VDHWTTTTATTGGDKB  
---TTTWWAAW-----

Original motif

Consensus sequence: VRHCCAATAAAWHHV

Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB

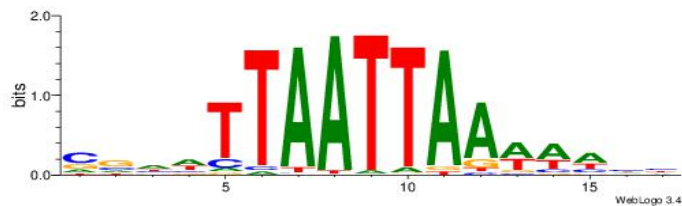


Motif ID: [UP00188](#)  
 Motif name: Lmx1a  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0169282

Alignment:  
 CVHHTTAATTAAWWWHB  
 -----WTTWWAAA--

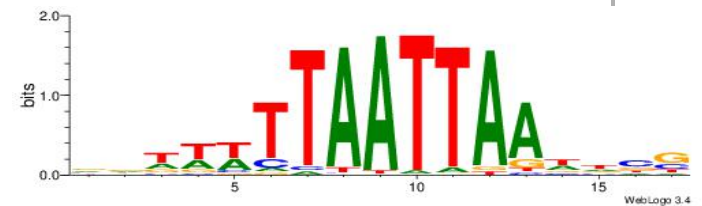
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWTTAATTAHHVG



Motif ID: [UP00016](#)

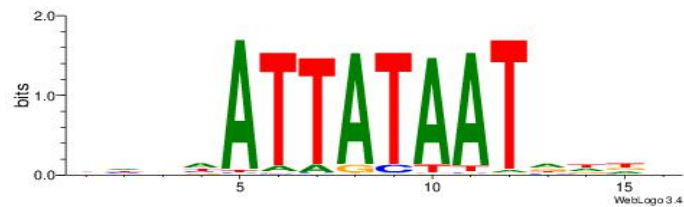
Motif name: Sry\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0172544

**Alignment:**

BHDHATTATAATDDD  
 ----TTTWWAAW----

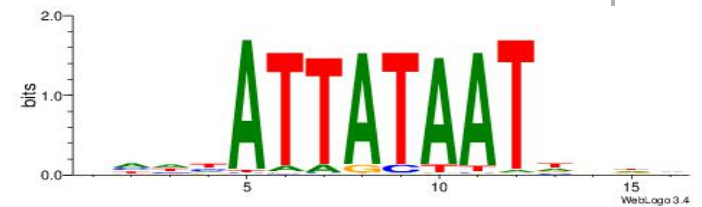
**Original motif**

Consensus sequence: BHDHATTATAATDDD



**Reverse complement motif**

Consensus sequence: VDDDATTATAATHDHV




---

Motif ID: [UP00023](#)  
 Motif name: Sox30\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8

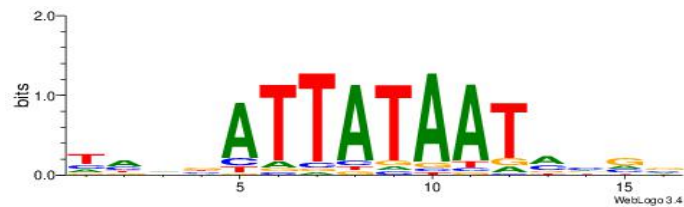
Similarity score: 0.0178935

Alignment:

THDBATTATAATMVVV  
----WTTWWAAA-----

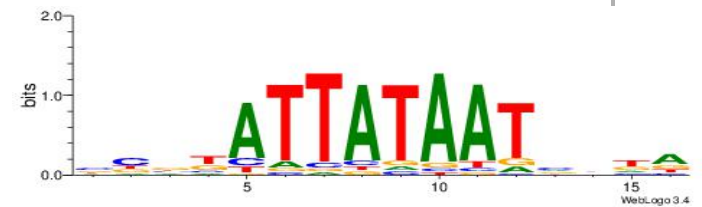
Original motif

Consensus sequence: THDBATTATAATMVVV



Reverse complement motif

Consensus sequence: VVYATTATAATBDHA



Motif ID: [UP00173](#)  
Motif name: Hoxc13  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0180658

Alignment:

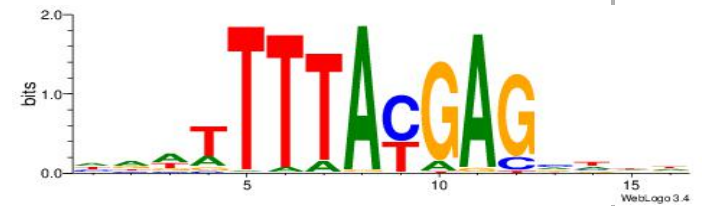
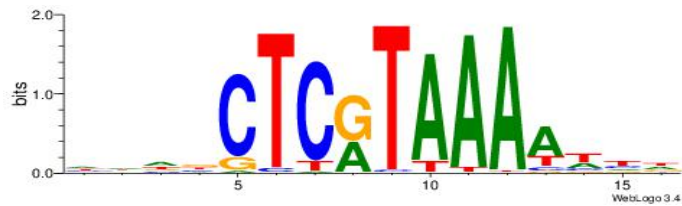
DHWTTTTAMGAGBDHH  
---WTTWWAAA-----

Original motif

Consensus sequence: HHDBCTCRATAAAWHD

Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH



Motif ID: [UP00207](#)  
 Motif name: Hoxb9  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.018356

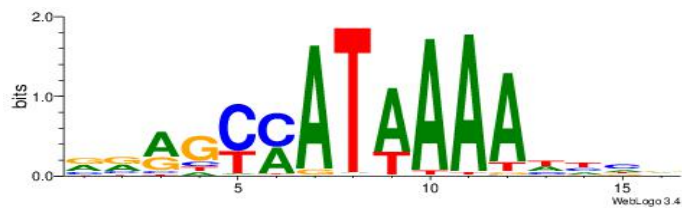
Alignment:

```

HDHHTTTTATRGCKMV
---WTTWWAAA-----
  
```

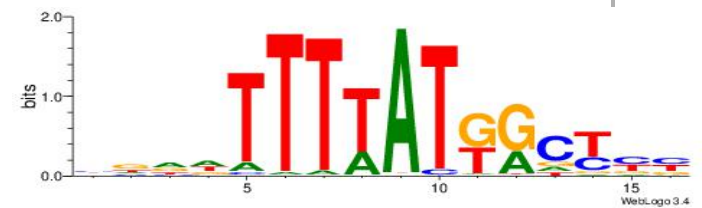
Original motif

Consensus sequence: VRRGCMATAAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



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

Original motif

Consensus sequence: GCTGGGAW



Reverse complement motif

Consensus sequence: WTCCCAGC



### Best Matches for Motif ID 9 (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: Original Motif  
Direction: Backward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0

Alignment:

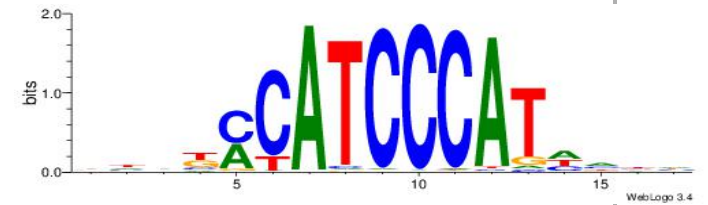
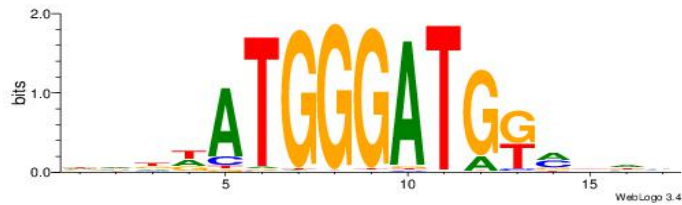
```
DVDDATGGGATGKMDDV  
---GCTGGGAW-----
```

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

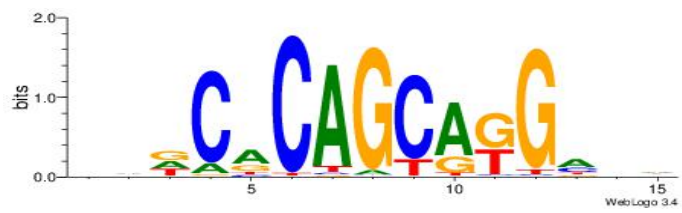


Motif ID: [UP00006](#)  
 Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 8  
 Similarity score: 0.0015592

Alignment:  
 DVHCYTGCTGTGHDH  
 -----GCTGGGAW-

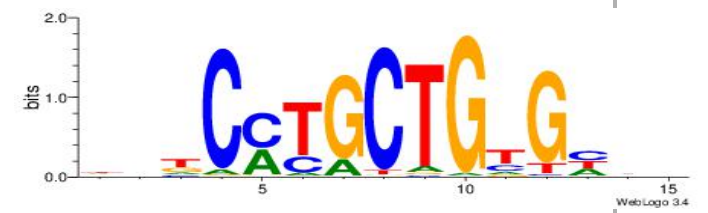
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP00102](#)

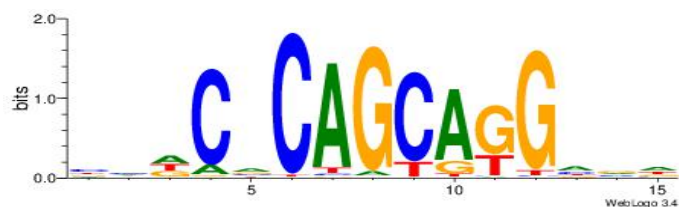
Motif name: Zic1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 8  
Similarity score: 0.00311134

Alignment:

DVHCCTGCTGBGDDDB  
-----GCTGGGAW-

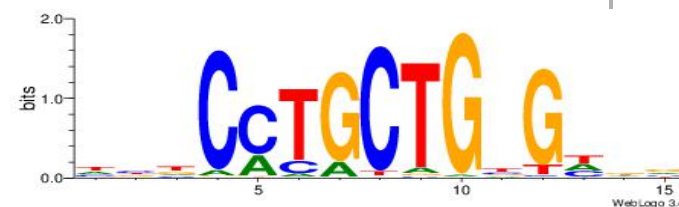
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



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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: 7  
Number of overlap: 8



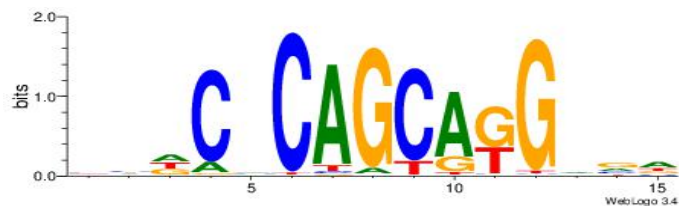
Similarity score: 0.00378731

Alignment:

DVBCYTGCTGBGDDD  
-----GCTGGGAW-

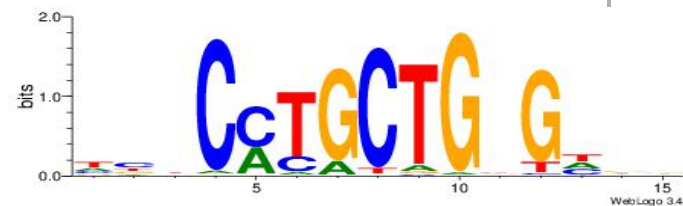
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00035](#)  
Motif name: Hic1\_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: 8  
Similarity score: 0.00499352

Alignment:

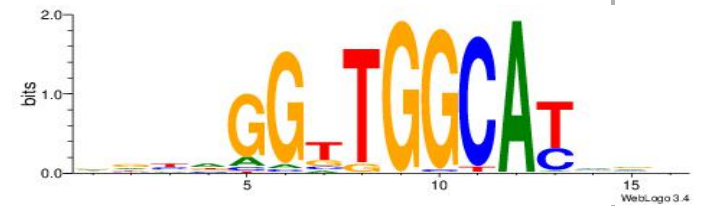
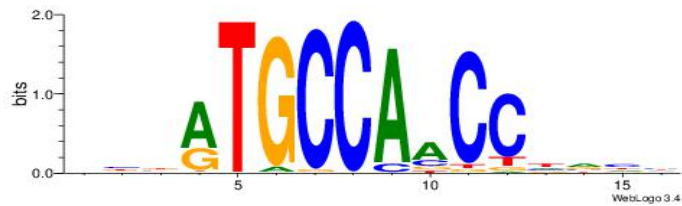
DDBHGGTTGGCATVBD  
-----GCTGGGAW---

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID: [UP00122](#)  
 Motif name: Tgif1  
 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: 8  
 Similarity score: 0.00832067

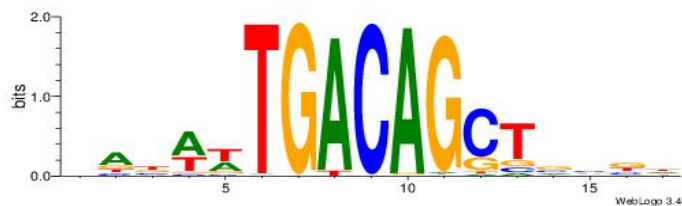
**Alignment:**

```

DBVVAGCTGTCAWWVTH
-----GCTGGGAW-----
  
```

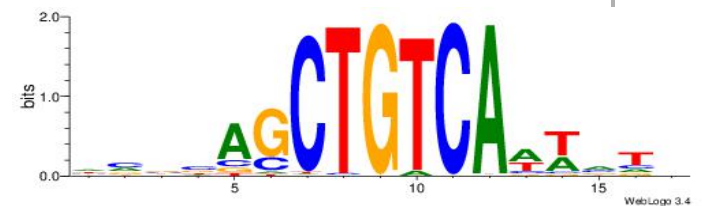
**Original motif**

Consensus sequence: DABWWTGACAGCTVVBD



**Reverse complement motif**

Consensus sequence: DBVVAGCTGTCAWWVTH



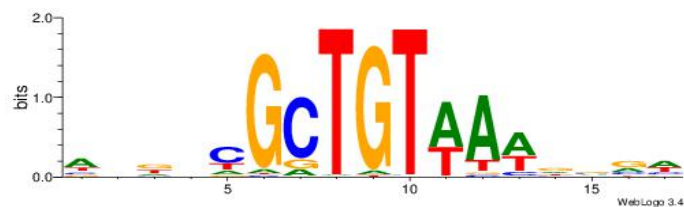
Motif ID: [UP00193](#)  
 Motif name: RhoX11\_2205.1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0141947

**Alignment:**

WVHWTWACAGCGHHVT  
 ----WTCCCAGC-----

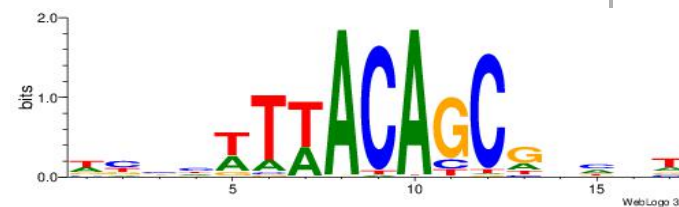
**Original motif**

Consensus sequence: AVDHCGCTGTAWDVVW



**Reverse complement motif**

Consensus sequence: WVHWTWACAGCGHHVT



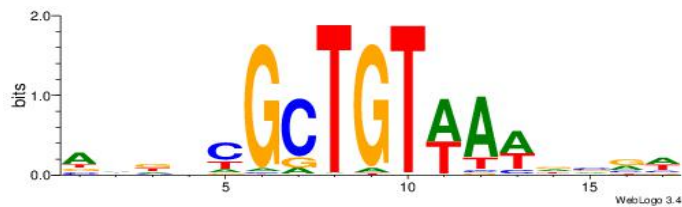

---

Motif ID: [UP00193](#)  
 Motif name: RhoX11\_1765.2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5

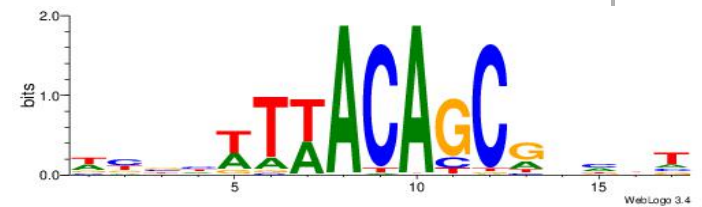
Number of overlap: 8  
Similarity score: 0.014648

Alignment:  
WVHWTWACAGCGBHBT  
----WTCCCAGC-----

Original motif  
Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif  
Consensus sequence: WVHWTWACAGCGBHBT



---

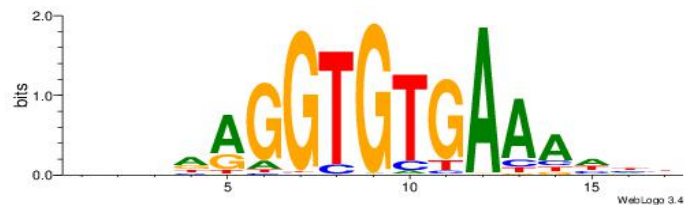
Motif ID: [UP00068](#)  
Motif name: Eomes\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0155942

Alignment:  
HHHTTTCACACCTDHBV  
----WTCCCAGC-----

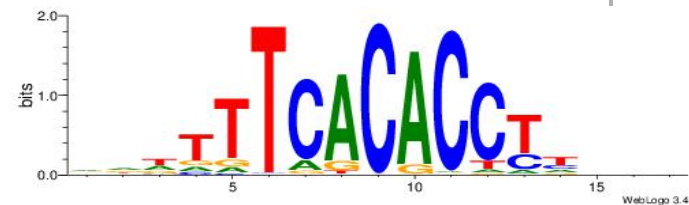
Original motif

Reverse complement motif

Consensus sequence: BVHDAGGTGTGAAHHH



Consensus sequence: HHHTTTCACACCTDHBV



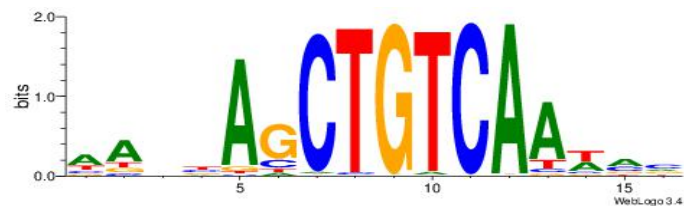
Motif ID: [UP00258](#)  
Motif name: Tgif2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0159446

Alignment:

```
VBWTTGACAGCTVBTT  
---WTCCCAGC-----
```

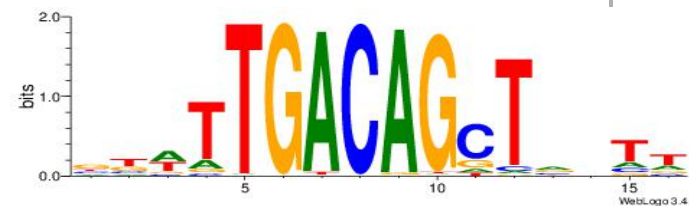
Original motif

Consensus sequence: AABGAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



**Dataset #: 1**

**Motif ID: 10**

**Motif name: Motif 10**

Original motif

Consensus sequence: TAMATA



Reverse complement motif

Consensus sequence: TATRTA



### Best Matches for Motif ID 10 (Highest to Lowest)

Motif ID: [UP00082](#)  
Motif name: Zfp187\_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: 6  
Similarity score: 0

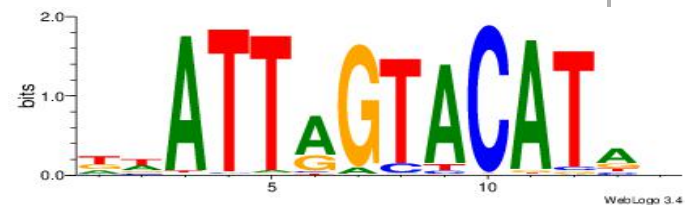
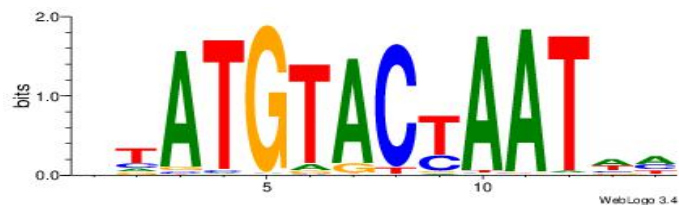
Alignment:  
HWATTAGTACATAV  
-----TAMATA-

Original motif

Consensus sequence: BTATGTACTAATWH

Reverse complement motif

Consensus sequence: HWATTAGTACATAV

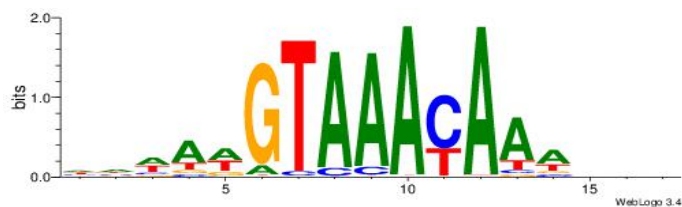


Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00240236

Alignment:  
 HHWAWGTAAAYAAVDB  
 -----TAMATA-----

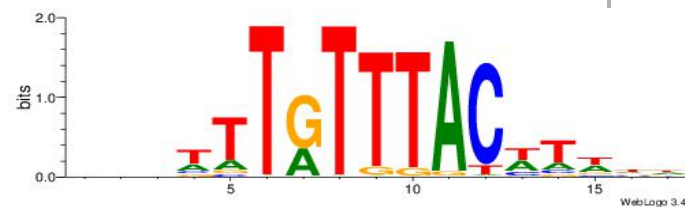
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00061](#)

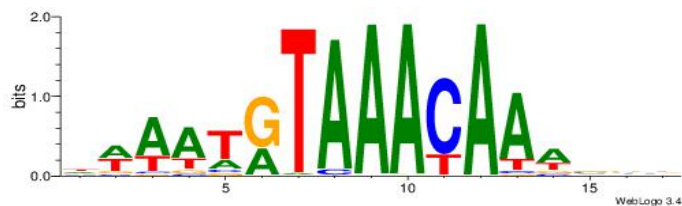
Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00807433

**Alignment:**

DWAATR~~TAAACA~~WVVB  
 -----TAMATA-----

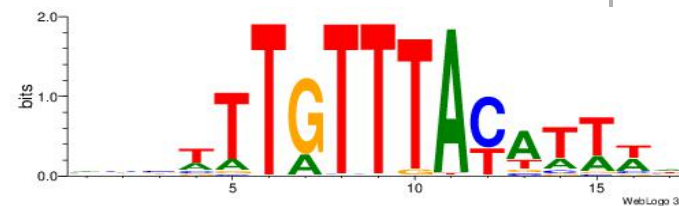
**Original motif**

Consensus sequence: DWAATR~~TAAACA~~WVVB



**Reverse complement motif**

Consensus sequence: VVWTTGTTAMATTWD




---

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: 6  
 Number of overlap: 6



Similarity score: 0.0104466

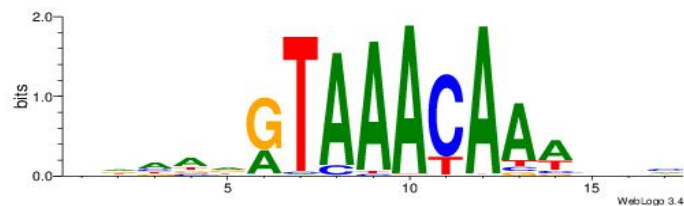
Alignment:

HDHADGTAAACAAAVVH

-----TAMATA-----

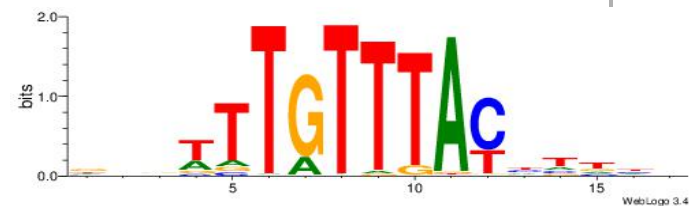
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00025](#)  
Motif name: Foxk1\_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: 6  
Similarity score: 0.0133367

Alignment:

DDAATGTAAACAAAVVB

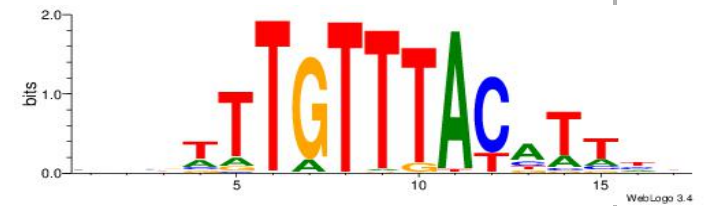
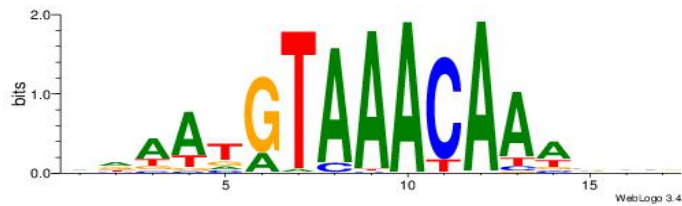
-----TAMATA-----

Original motif

Consensus sequence: DDAATGTAAACAAAVVB

Reverse complement motif

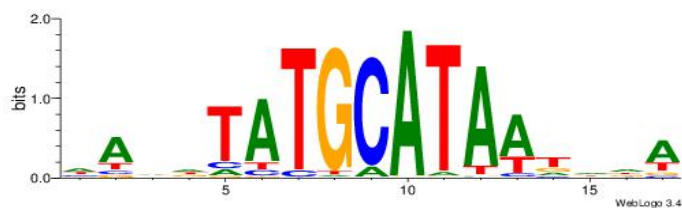
Consensus sequence: BBVTTTGTTCACATDD



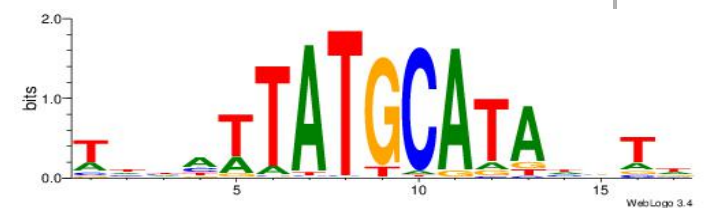
Motif ID: [UP00211](#)  
 Motif name: Pou3f3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 6  
 Similarity score: 0.0159085

Alignment:  
 TDDATTATGCATADDTH  
 -----TATRTA-----

Original motif  
 Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif  
 Consensus sequence: TDDATTATGCATADDTH



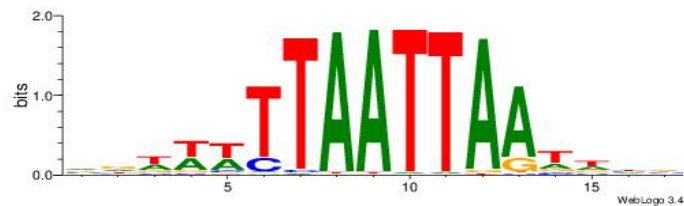
Motif ID: [UP00169](#)  
 Motif name: Lmx1b  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.0177771

Alignment:

BHDATTAATTAAWWWHB  
 -----TAMATA-----

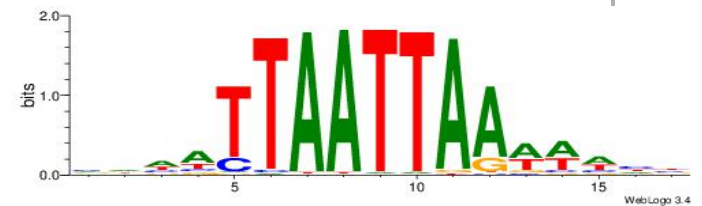
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB

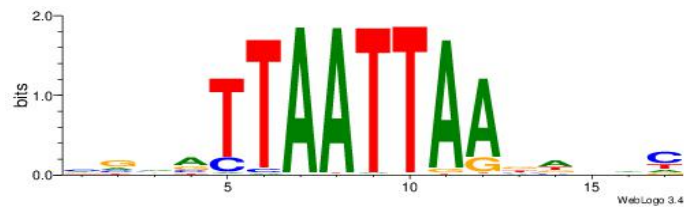


Motif ID: [UP00172](#)  
 Motif name: Prop1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6

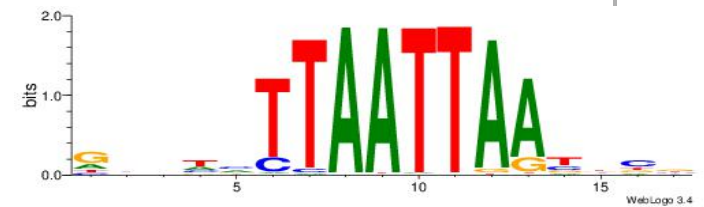
Number of overlap: 6  
Similarity score: 0.0178756

Alignment:  
GDDDBTTAATTAABBVV  
-----TAMATA-----

Original motif  
Consensus sequence: VVVVTTAATTAABDDDC



Reverse complement motif  
Consensus sequence: GDDDBTTAATTAABBVV



---

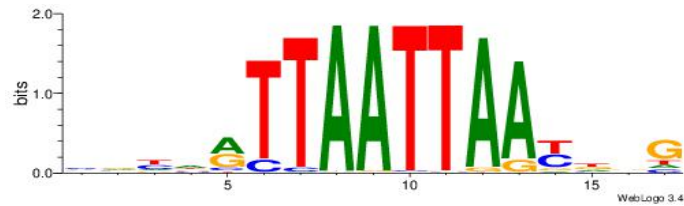
Motif ID: [UP00237](#)  
Motif name: Otp  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 6  
Similarity score: 0.0179741

Alignment:  
CHDMTTAATTAAKDHVV  
-----TAMATA-----

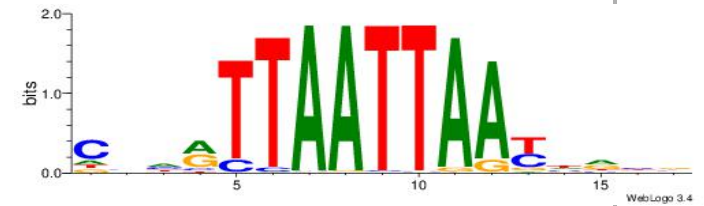
Original motif

Reverse complement motif

Consensus sequence: VVHDRTTAATTAAYDDG



Consensus sequence: CHDMTTAATTAAKDHVV



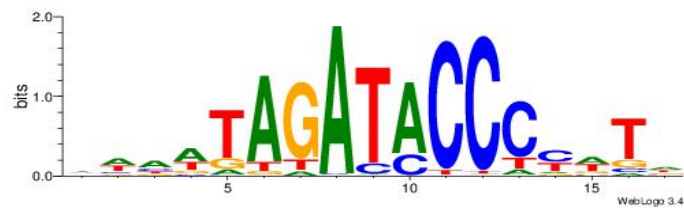
Motif ID: [UP00232](#)  
Motif name: Dobox4  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 6  
Similarity score: 0.0179753

Alignment:

```
DAWKGGGTATCTAWHWH  
-----TATRTA-----
```

Original motif

Consensus sequence: HWHWTAGATACCCYWTD



Reverse complement motif

Consensus sequence: DAWKGGGTATCTAWHWH



**Dataset #: 1**

**Motif ID: 11**

**Motif name: Motif 11**

Original motif

Consensus sequence: CCGCCGCC



Reverse complement motif

Consensus sequence: GGCGGCGG



### Best Matches for Motif ID 11 (Highest to Lowest)

Motif ID: [UP00002](#)  
Motif name: Sp4\_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: 8  
Similarity score: 0.00319355

Alignment:

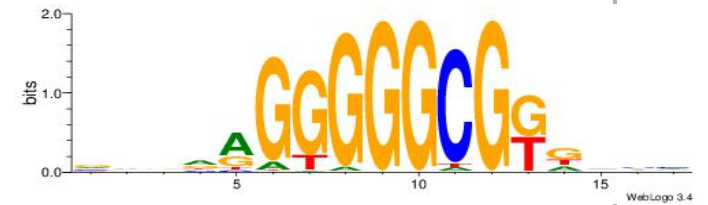
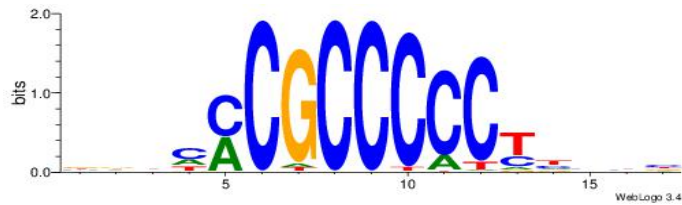
```
BDHHMCGCCCCCTHVBB  
----CCGCCGCC-----
```

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

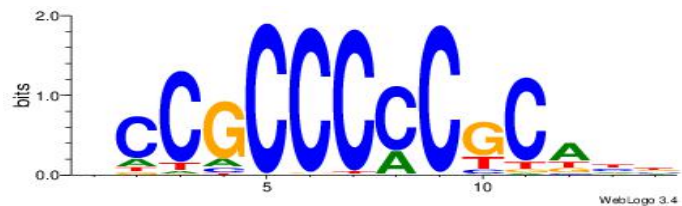


Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.00646974

Alignment:  
 VHTGCGGGGGCGGH  
 -----GCGGCGG-

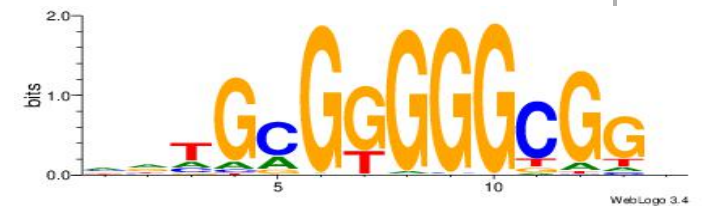
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



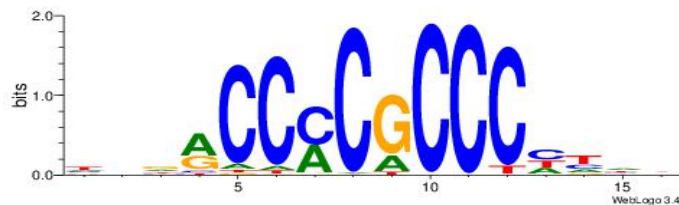
Motif ID: [UP00093](#)

Motif name: Klf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0238664

Alignment:  
 DHDGGGCGRGGKHBH  
 -----GGCGGCGG---

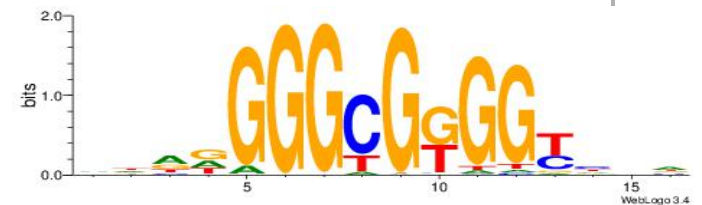
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHDGGGCGRGGKHBH




---

Motif ID: [UP00527](#)  
 Motif name: Foxn4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 8



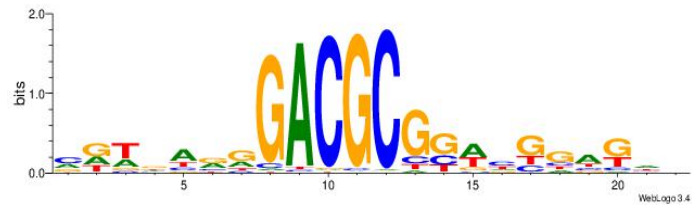
Similarity score: 0.0278448

Alignment:

VDWDARRGACGCGGWHGGAKHV  
-----GCGGCGG-----

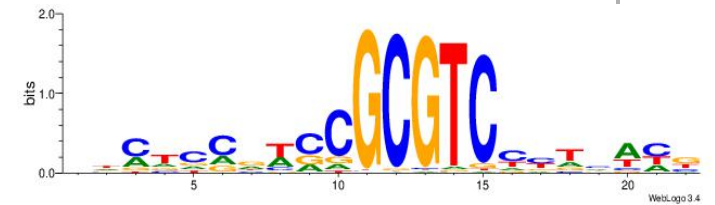
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.028459

Alignment:

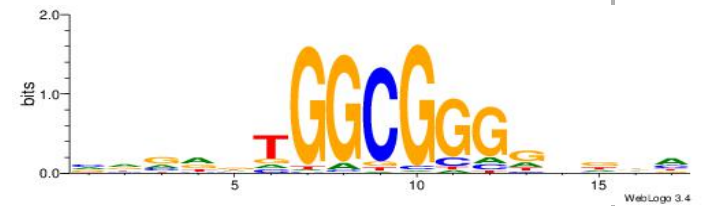
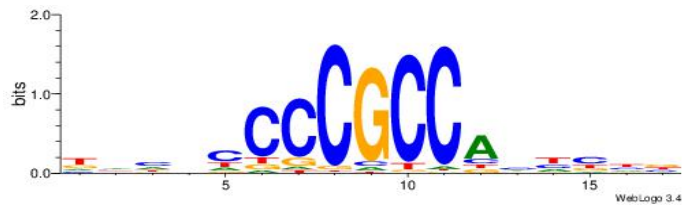
BHBHDTGGCGGGBDHD  
-----GCGGCGG----

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

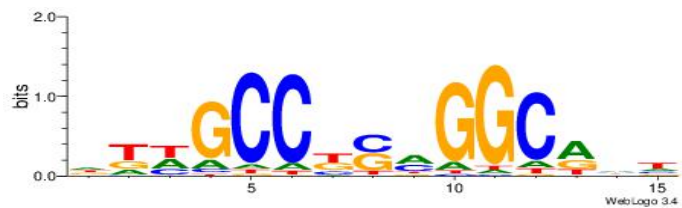


Motif ID: [UP00010](#)  
 Motif name: Tcfap2b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0291826

Alignment:  
 DTWGCKSMGGCRHH  
 ---GGCGGCGG----

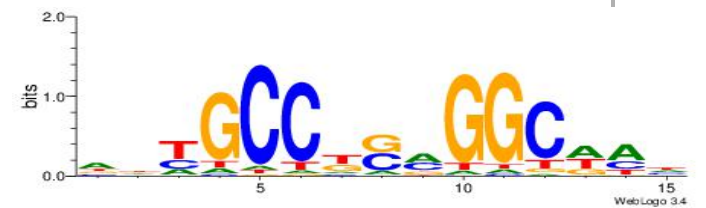
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

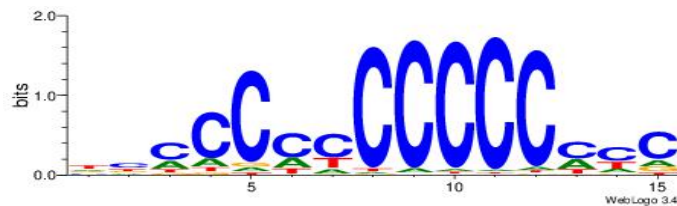


Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0293811

Alignment:  
 GKRGGGGGGGGGGBD  
 ---GGCGGCGG----

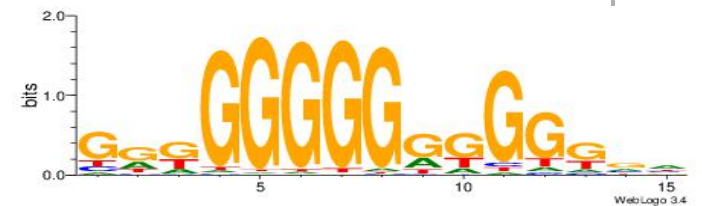
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

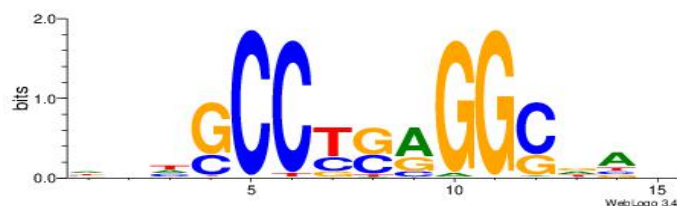


Motif ID: [UP00028](#)  
 Motif name: Tcfap2e\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5

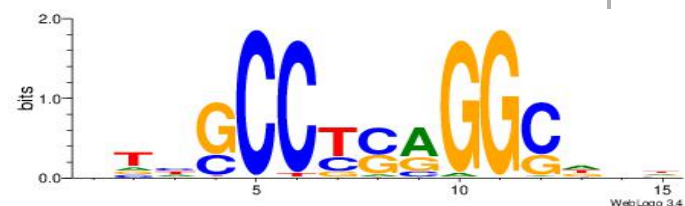
Number of overlap: 8  
Similarity score: 0.0298524

Alignment:  
DTHGCCTSAGGCHHH  
---GGCGGCGG----

Original motif  
Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif  
Consensus sequence: DTHGCCTSAGGCHHH



---

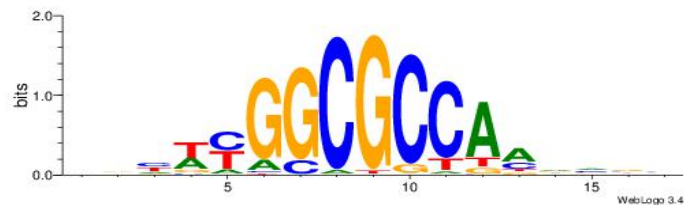
Motif ID: [UP00003](#)  
Motif name: E2F3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0333911

Alignment:  
BBBDYTGGCGCKWDBD  
-----GGCGGCGG----

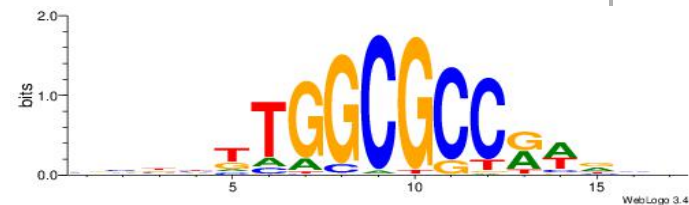
Original motif

Reverse complement motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Consensus sequence: BBBDYTGCGCCKWDBD



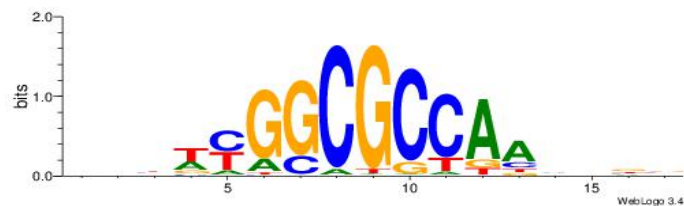
Motif ID: [UP00001](#)  
Motif name: E2F2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0345259

Alignment:

```
BBBDTTGGCGCCKWVVD  
-----GGCGCGG----
```

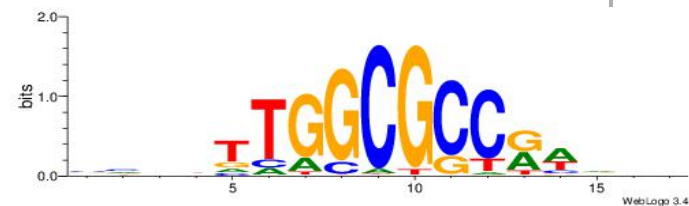
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDDTTGGCGCCKWVVD



**Dataset #: 1**

**Motif ID: 12**

**Motif name: Motif 12**

Original motif

Consensus sequence: AGGMCAGC



Reverse complement motif

Consensus sequence: GCTGRCCT



### Best Matches for Motif ID 12 (Highest to Lowest)

Motif ID: [UP00045](#)  
Motif name: Mafb\_primary  
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: 8  
Similarity score: 0

Alignment:

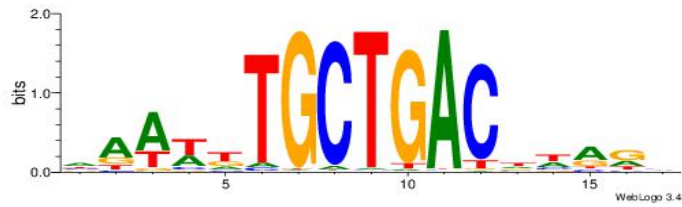
```
HAAWDTGCTGACDWARH  
-----GCTGRCCT----
```

Original motif

Consensus sequence: HAAWDTGCTGACDWARH

Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH

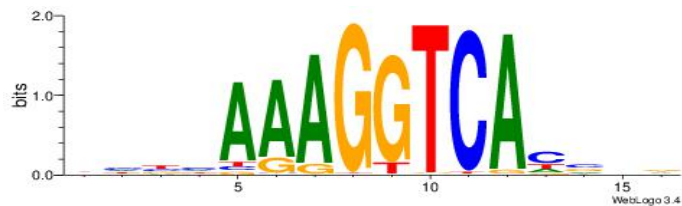


Motif ID: [UP00048](#)  
 Motif name: Rara  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.00167433

Alignment:  
 HHVGTGACCTTTDVDD  
 --GCTGRCCT-----

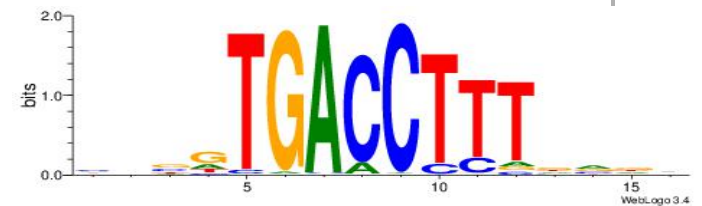
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



Motif ID: [UP00079](#)

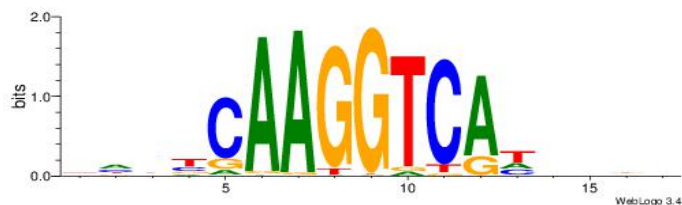
Motif name: Esrra\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00403191

Alignment:

HHBVHTGACCTTGVDHD  
---GCTGRCCT-----

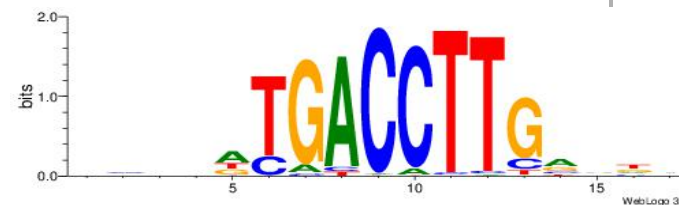
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



---

Motif ID: [UP00122](#)  
Motif name: Tgif1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8



Similarity score: 0.00799523

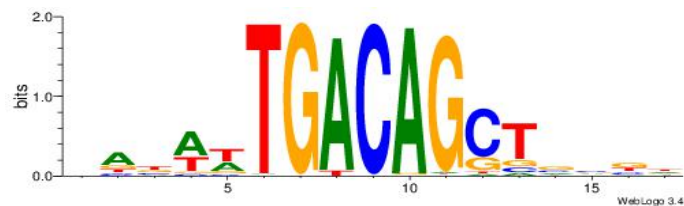
Alignment:

DABWWTGACAGCTVVBD

----AGGMCAGC-----

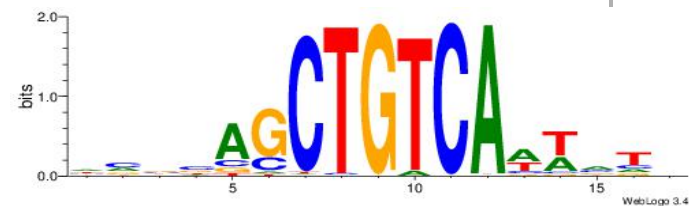
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWWVTH



Motif ID: [UP00009](#)  
Motif name: Nr2f2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 8  
Similarity score: 0.00808575

Alignment:

BHVDTGACCTTTDVDD

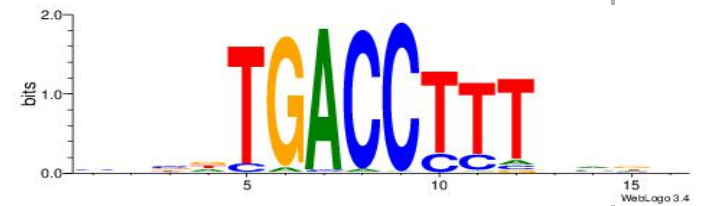
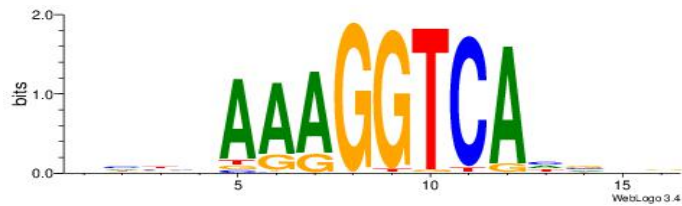
--GCTGRCCT-----

Original motif

Consensus sequence: DHBHAAAGGTCAHVHB

Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



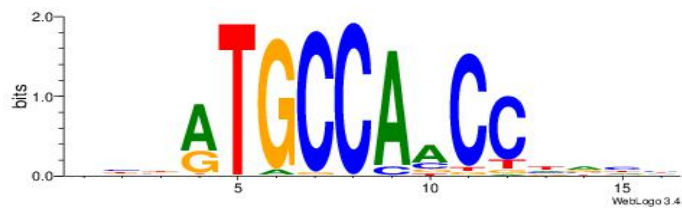
Motif ID: [UP00035](#)  
 Motif name: Hic1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0141098

**Alignment:**

DDBHGGTTGGCATVBD  
 -----GCTGRCCT---

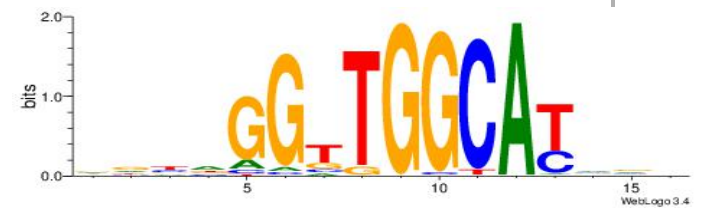
**Original motif**

Consensus sequence: DBBATGCCAACCHVHH



**Reverse complement motif**

Consensus sequence: DDBHGGTTGGCATVBD



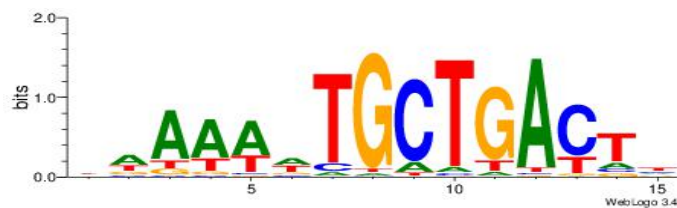
Motif ID: [UP00044](#)  
Motif name: Mafk\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.0149298

Alignment:

```
DWAAAWTGCTGACTH  
-----GCTGRCCT
```

Original motif

Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



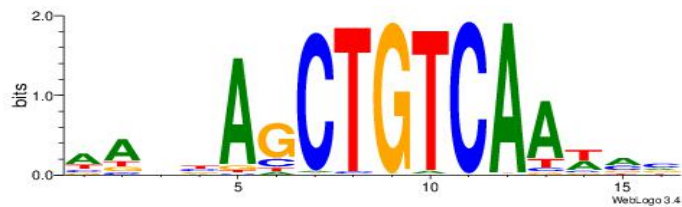
---

Motif ID: [UP00258](#)  
Motif name: Tgif2  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6

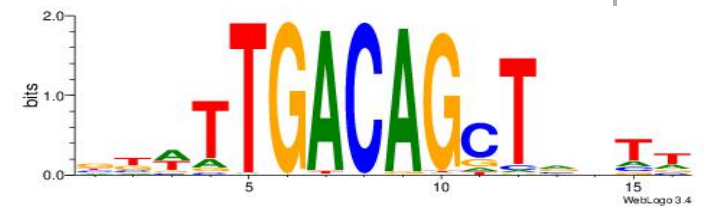
Number of overlap: 8  
Similarity score: 0.0156273

Alignment:  
VBWTTGACAGCTVBTT  
---AGGMCAGC-----

Original motif  
Consensus sequence: AABGAGCTGTCAAWV



Reverse complement motif  
Consensus sequence: VBWTTGACAGCTVBTT



---

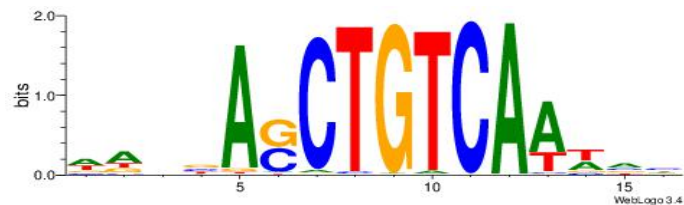
Motif ID: [UP00186](#)  
Motif name: Meis1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0171725

Alignment:  
DBWTTGACAGSTBVTW  
---AGGMCAGC-----

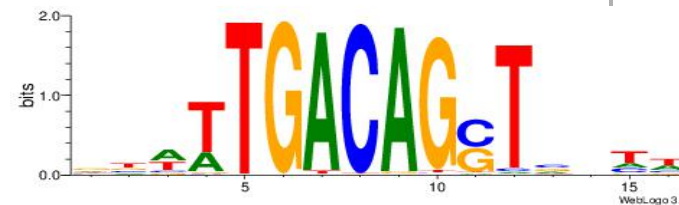
Original motif

Reverse complement motif

Consensus sequence: WAVBASCTGTCAAWVH



Consensus sequence: DBWTTGACAGSTBVTW



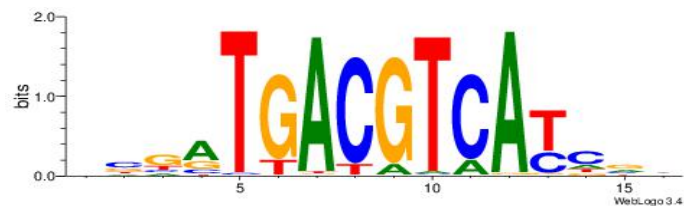
Motif ID: [UP00103](#)  
Motif name: Jundm2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0.0215057

Alignment:

```
HVGMTGACGTCATCBB  
--GCTGRCCT-----
```

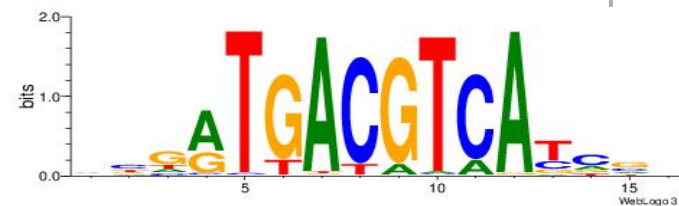
Original motif

Consensus sequence: BBGATGACGTCA YCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCATCBB



**Dataset #: 1**

**Motif ID: 13**

**Motif name: Motif 13**

Original motif

Consensus sequence: GAGRCAGR



Reverse complement motif

Consensus sequence: MCTGKCTC



### Best Matches for Motif ID 13 (Highest to Lowest)

Motif ID:	<a href="#">UP00205</a>
Motif name:	Pknox2
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:	8
Similarity score:	0

Alignment:

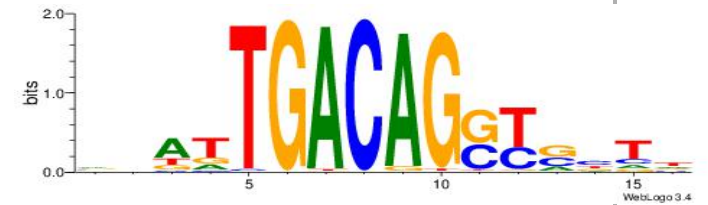
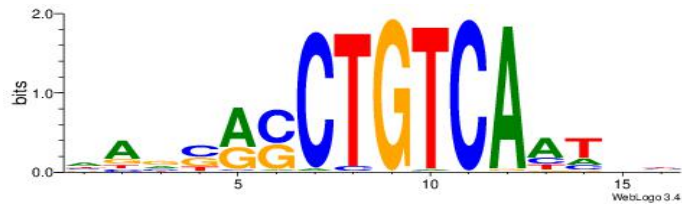
```
HAVSRCTGTCAATHB  
-----MCTGKCTC---
```

Original motif

Consensus sequence: HAVSRCTGTCAATHB

Reverse complement motif

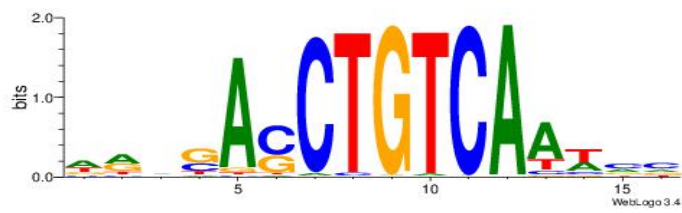
Consensus sequence: VHATTGACAGSKSVTH



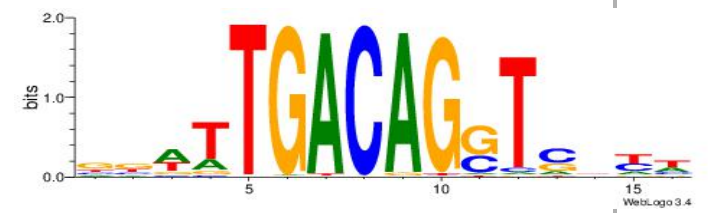
Motif ID: [UP00203](#)  
 Motif name: Pknox1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0024357

Alignment:  
 DRVSASCTGTCAAWVV  
 -----MCTGKCTC---

Original motif  
 Consensus sequence: DRVSASCTGTCAAWVV



Reverse complement motif  
 Consensus sequence: VVWTTGACAGSTSBKD



Motif ID: [UP00226](#)

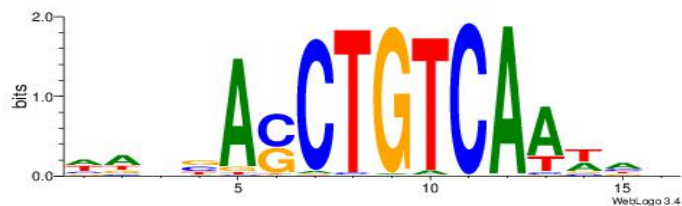
Motif name: Mrg1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.00532831

**Alignment:**

WAVBASCTGTCAAWHB  
 -----MCTGKCTC---

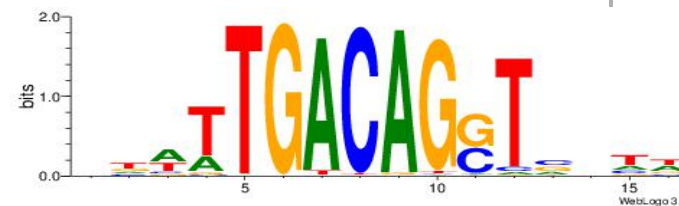
**Original motif**

Consensus sequence: WAVBASCTGTCAAWHB



**Reverse complement motif**

Consensus sequence: BHWTTGACAGSTBBTW




---

Motif ID: [UP00210](#)  
 Motif name: Mrg2  
 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



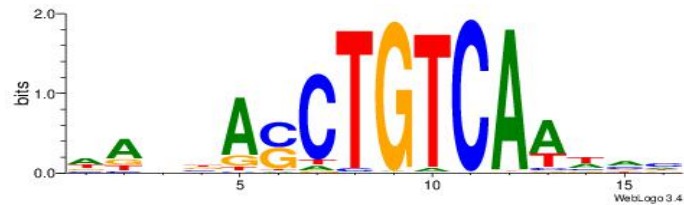
Similarity score: 0.00847279

Alignment:

DADBASCTGTCAAHVH  
-----MCTGKCTC---

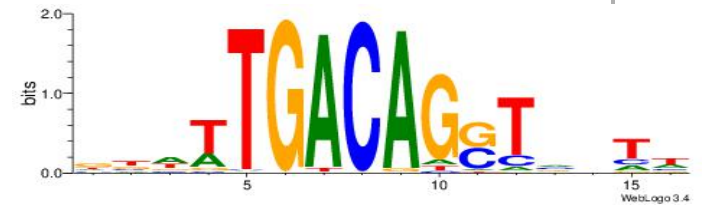
Original motif

Consensus sequence: DADBASCTGTCAAHVH



Reverse complement motif

Consensus sequence: DBHTTGACAGSTVDTD



Motif ID: [UP00186](#)  
Motif name: Meis1  
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: 0.00869293

Alignment:

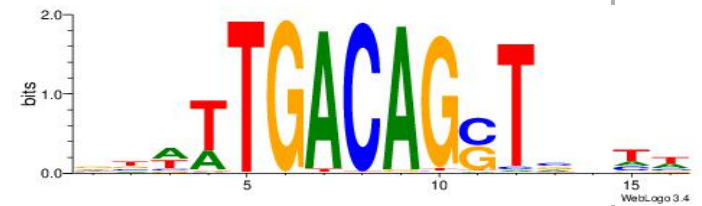
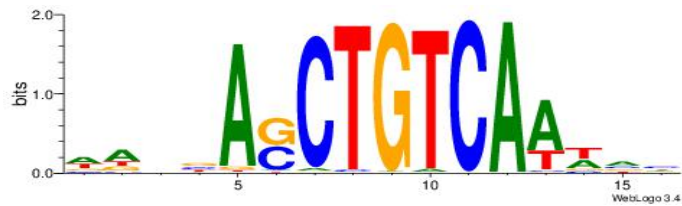
WAVBASCTGTCAAWVH  
-----MCTGKCTC---

Original motif

Consensus sequence: WAVBASCTGTCAAWVH

Reverse complement motif

Consensus sequence: DBWTTGACAGSTBVTW

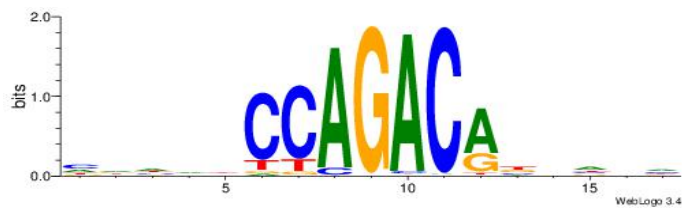


Motif ID: [UP00000](#)  
 Motif name: Smad3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00919674

Alignment:  
 HDHDDCCAGACABBHVH  
 -----GAGRCAGR----

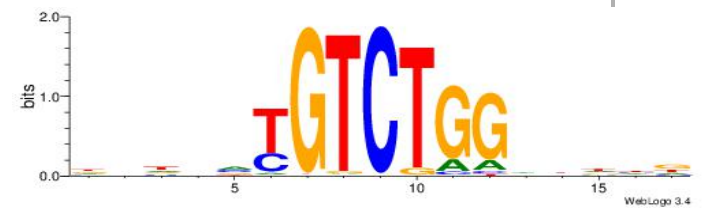
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



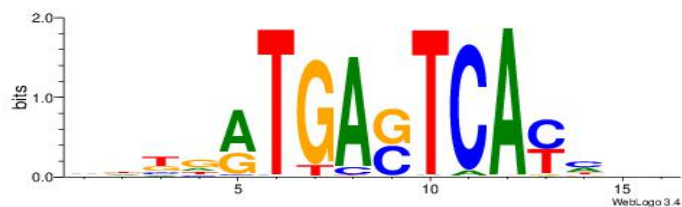
Motif ID: [UP00103](#)  
 Motif name: Jundm2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.00968214

Alignment:

HDDKTGASTCAKHRDB  
 -----GAGRCAGR----

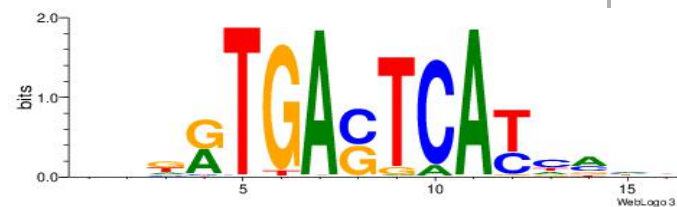
Original motif

Consensus sequence: VDKDRTGASTCAYHDH



Reverse complement motif

Consensus sequence: HDDKTGASTCAKHRDB

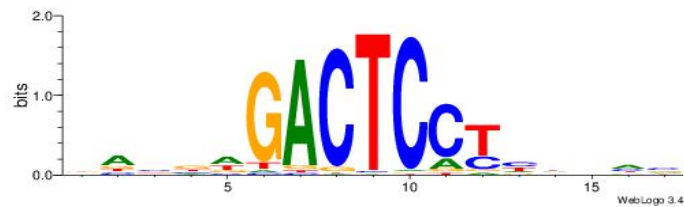


Motif ID: [UP00095](#)  
 Motif name: Zfp691\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3

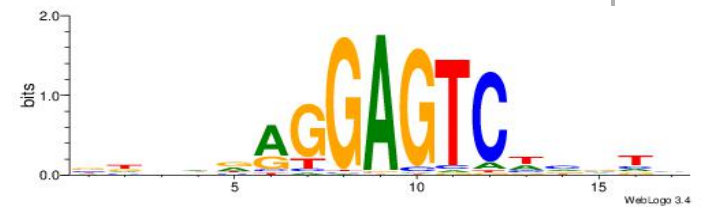
Number of overlap: 8  
Similarity score: 0.0110909

Alignment:  
DABBWGACTCCTHDVHV  
--MCTGKCTC-----

Original motif  
Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif  
Consensus sequence: VHBDDAGGAGTCWBBTD



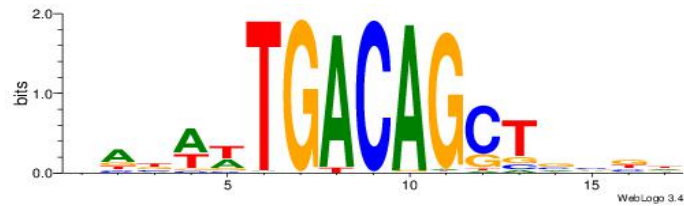
Motif ID: [UP00122](#)  
Motif name: Tgif1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0125857

Alignment:  
DABWWTGACAGCTVVBD  
----GAGRCAGR-----

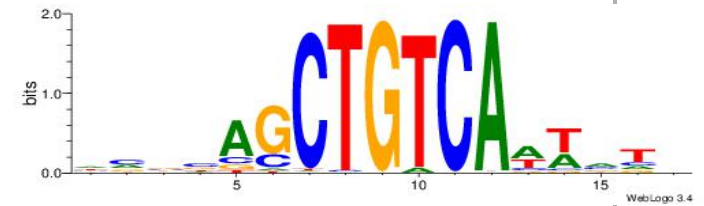
Original motif

Reverse complement motif

Consensus sequence: DABWWTGACAGCTVVB



Consensus sequence: DBVVAGCTGTCAWVWTH



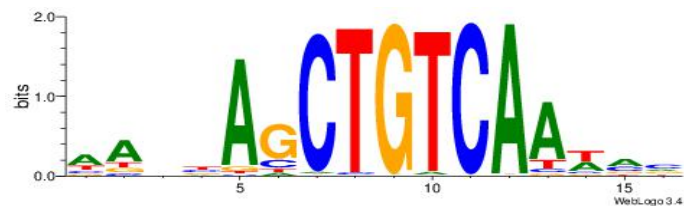
Motif ID: [UP00258](#)  
Motif name: Tgif2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0145433

Alignment:

```
AABBAGCTGTCAAWVV  
-----MCTGKCTC---
```

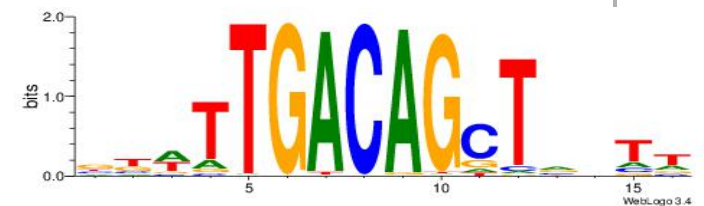
Original motif

Consensus sequence: AABBAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



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

Original motif

Consensus sequence: GCRCACRC



Reverse complement motif

Consensus sequence: GKGTGKGC



### Best Matches for Motif ID 14 (Highest to Lowest)

Motif ID:	<a href="#">UP00042</a>
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0

Alignment:

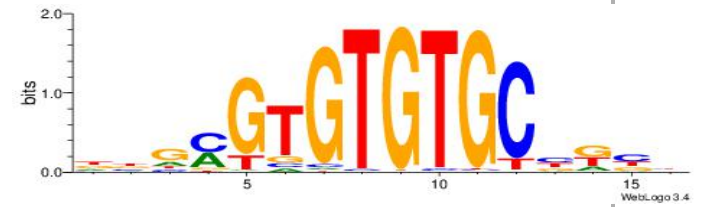
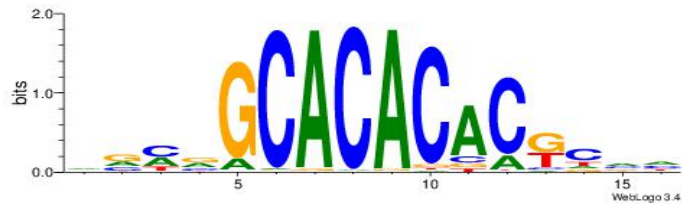
```
DVMVGCACACACKCVH  
-----GCRCACRC-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

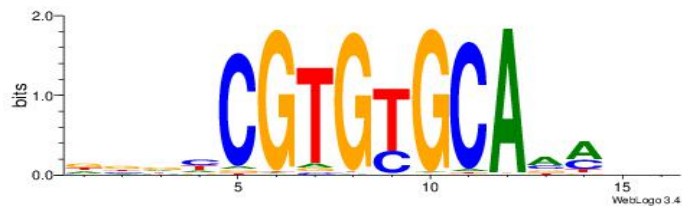


Motif ID: [UP00097](#)  
 Motif name: Mtf1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0261244

Alignment:  
 HDYTTGCACACGDHBH  
 -----GCRACRC---

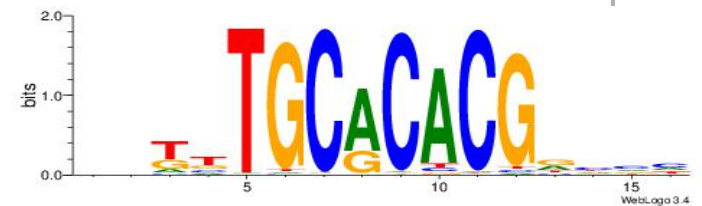
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



Motif ID: [UP00538](#)

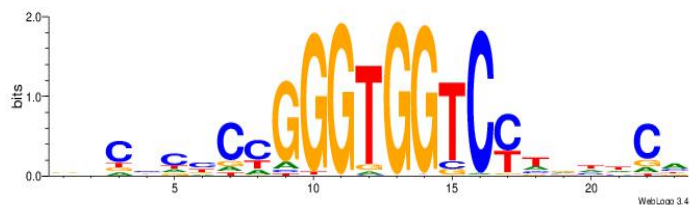
Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 8  
 Similarity score: 0.0329776

**Alignment:**

BHCBCBCCGGGTGGTCYHVHDCH  
 -----GKGTGKGC-----

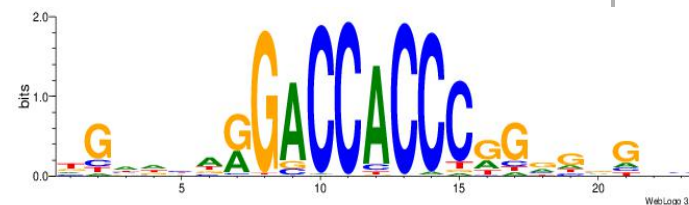
**Original motif**

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



**Reverse complement motif**

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB




---

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: 9  
 Number of overlap: 8



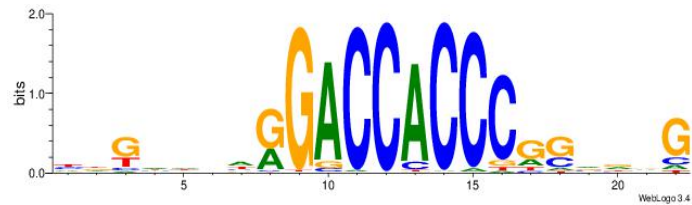
Similarity score: 0.0341116

Alignment:

CVHBSCGGGTGGTCMHVHHCDH  
-----GKGTGKGC-----

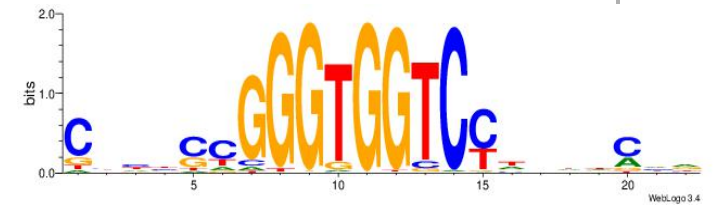
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00026](#)  
Motif name: Zscan4\_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: 8  
Similarity score: 0.0351584

Alignment:

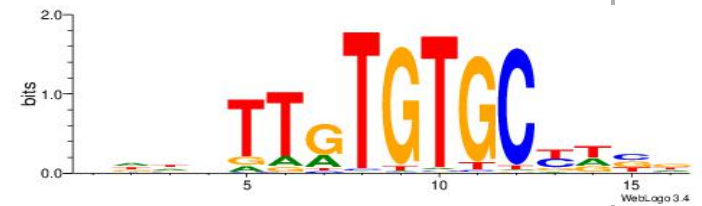
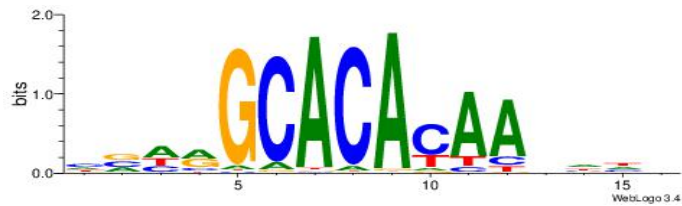
HVHRGCACACAAHHHV  
----GCRACRC----

Original motif

Consensus sequence: HVHRGCACACAAHHHV

Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



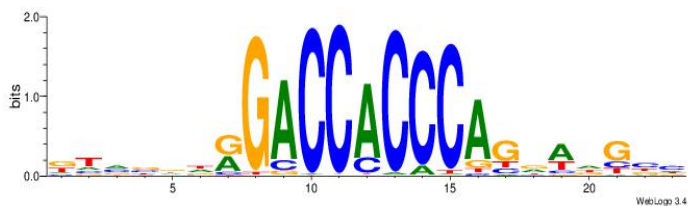
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 8  
 Similarity score: 0.0353979

**Alignment:**

DBCDWHCTGGGTGGTCMDHBBAH  
 -----GKGTGKGC-----

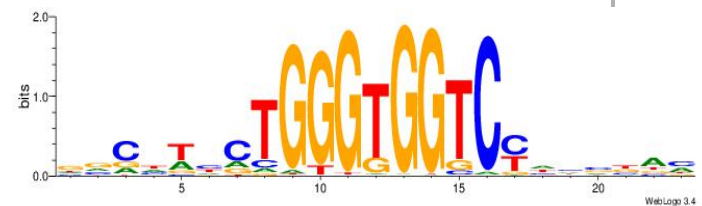
**Original motif**

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



**Reverse complement motif**

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



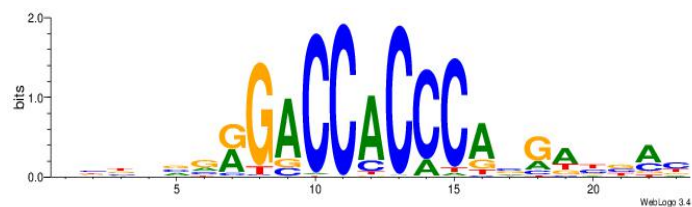
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0359411

**Alignment:**

BTBVTCTVGGGTGGTCMVVDVBB  
 -----GKGTGKGC-----

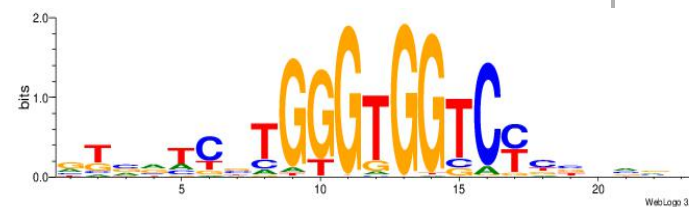
**Original motif**

Consensus sequence: BBBDVVRGACCACCAV GABBAB



**Reverse complement motif**

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



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: 9

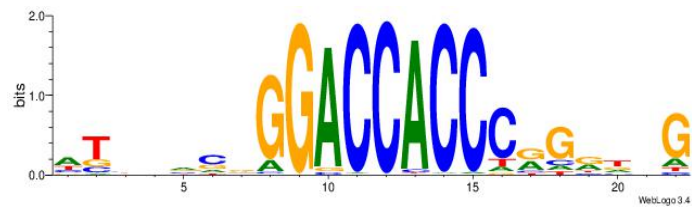
Number of overlap: 8  
Similarity score: 0.0360788

Alignment:

CBDMCMGGGTGGTCCHVBVBAH  
-----GKGTGKGC-----

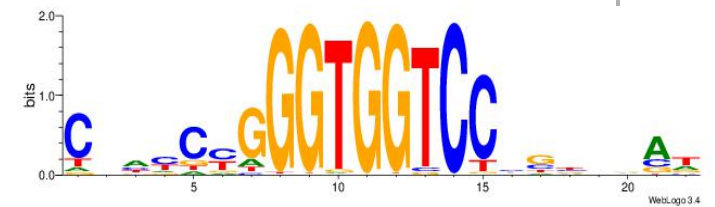
Original motif

Consensus sequence: HTBVVDGGACCACCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Motif ID: [UP00042](#)  
Motif name: Gm397\_primary  
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: 8  
Similarity score: 0.0376684

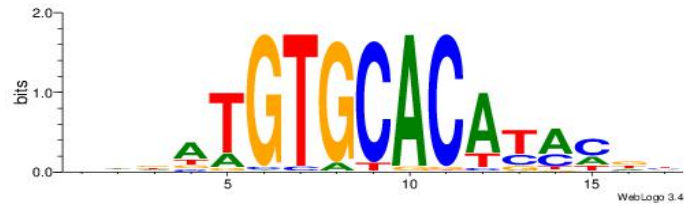
Alignment:

HHDATGTGCACATAMDH  
-----GCRACRC--

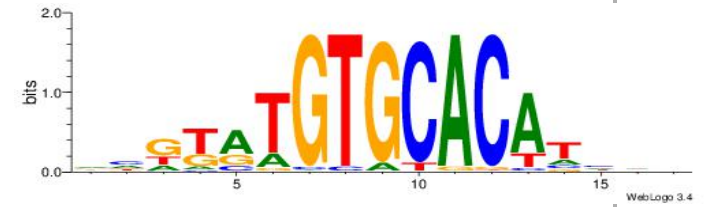
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



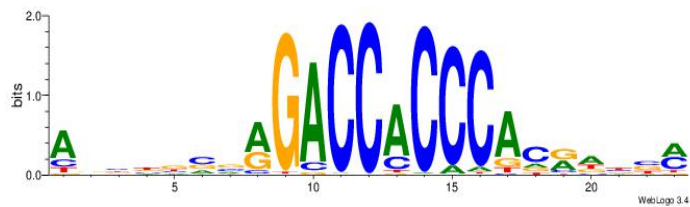
Motif ID: [UP00540](#)  
Motif name: Gli3\_v015681\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 9  
Number of overlap: 8  
Similarity score: 0.0381663

Alignment:

```
YBVDMGTGGGTGGTCKVVBVBBT  
-----GKGTGKGC-----
```

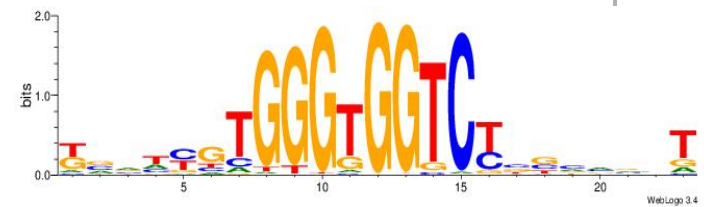
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



**Dataset #: 1**

**Motif ID: 15**

**Motif name: Motif 15**

Original motif

Consensus sequence: GRAAATG



Reverse complement motif

Consensus sequence: CATTTC



### Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID: [UP00179](#)  
Motif name: Pou2f3  
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: 7  
Similarity score: 0

Alignment:

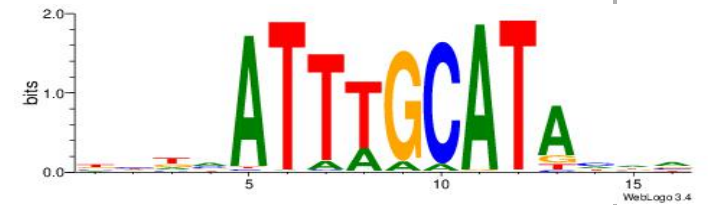
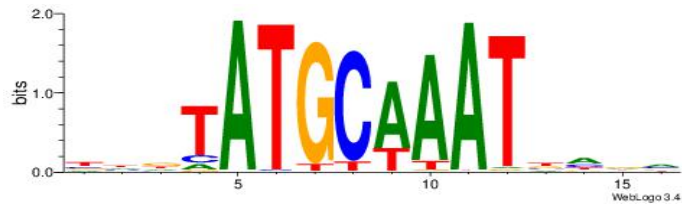
```
BHHVATTTGCATAHHV  
---CATTTC-----
```

Original motif

Consensus sequence: BHDTATGCAAATBHDV

Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV

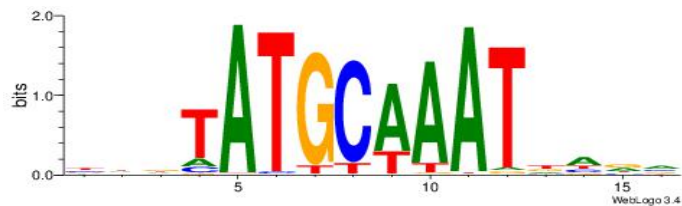


Motif ID: [UP00191](#)  
 Motif name: Pou2f2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 7  
 Similarity score: 0.0024655

Alignment:  
 BHDATTTGCATAHHV  
 ---CATTTKC-----

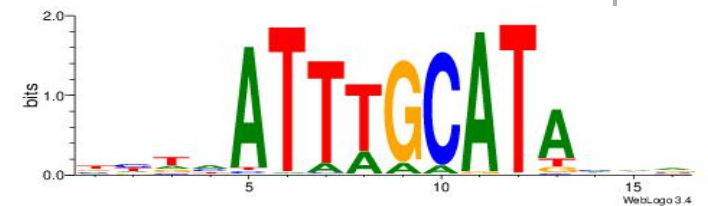
Original motif

Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHDATTTGCATAHHV



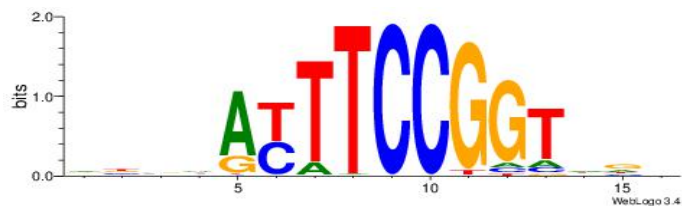
Motif ID: [UP00424](#)

Motif name: Gm4881  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 7  
 Similarity score: 0.0185589

Alignment:  
 DHDACCGGAAMTHBVB  
 -----GRAAATG----

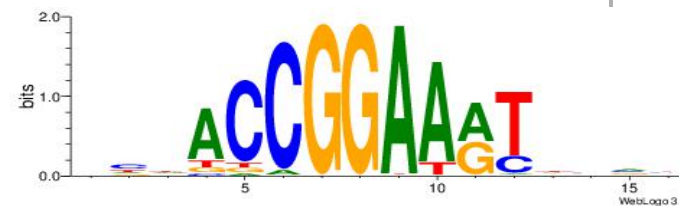
Original motif

Consensus sequence: VBBHAYTTCCGGTDDD



Reverse complement motif

Consensus sequence: DHDACCGGAAMTHBVB




---

Motif ID: [UP00090](#)  
 Motif name: Elf3\_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: 7



Similarity score: 0.0206385

Alignment:

DAHMMGGAARTDA  
-----GRAAATG-

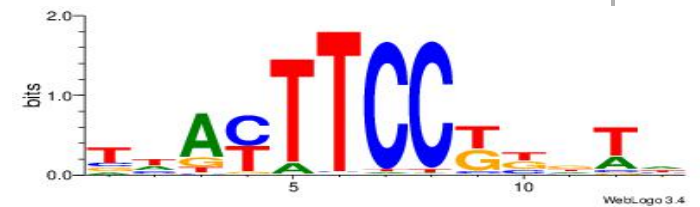
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



Motif ID: [UP00013](#)  
Motif name: Gabpa\_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: 7  
Similarity score: 0.0213964

Alignment:

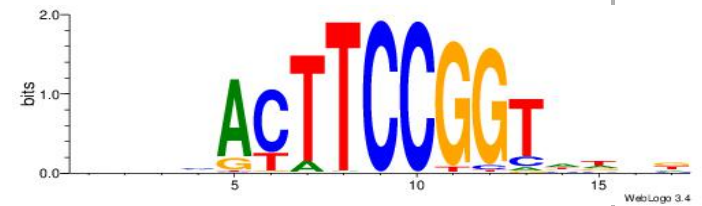
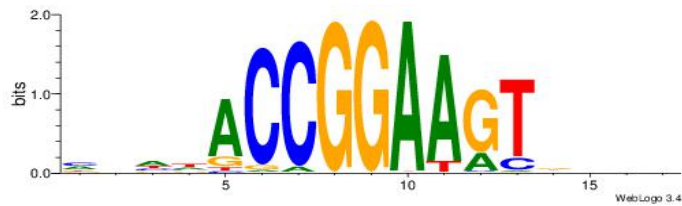
HVHHACCGGAAGTDHHV  
-----GRAAATG----

Original motif

Consensus sequence: HVHHACCGGAAGTDHHV

Reverse complement motif

Consensus sequence: BHHHACTTCCGGTHHBD

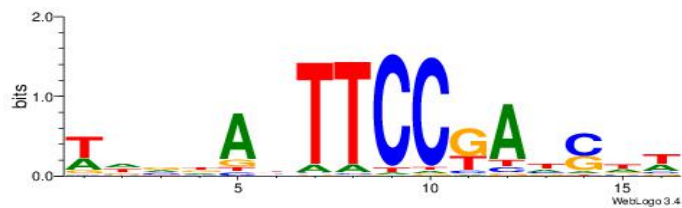


Motif ID: [UP00015](#)  
 Motif name: Ehf\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 7  
 Similarity score: 0.0237376

Alignment:  
 WDSHTYGGAAVTDVDW  
 -----GRAAATG----

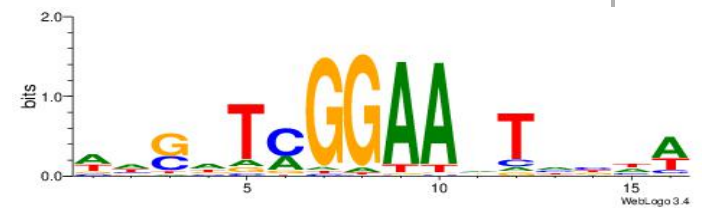
Original motif

Consensus sequence: WDVDABTTCCKAHSDW



Reverse complement motif

Consensus sequence: WDSHTYGGAAVTDVDW



Motif ID: [UP00409](#)  
 Motif name: Elf5  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 7  
 Similarity score: 0.0242017

Alignment:  
 BWAHSMGGAAGTWD  
 -----GRAAATG--

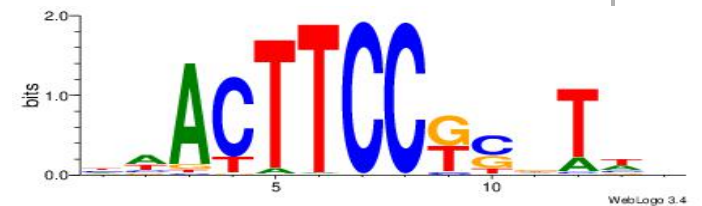
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWW



Motif ID: [UP00419](#)  
 Motif name: Spic  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7

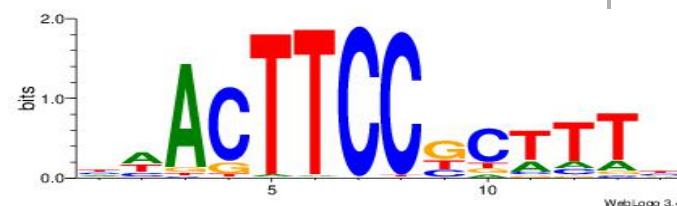
Number of overlap: 7  
Similarity score: 0.0253372

Alignment:  
VAAAGMGGAAAGTWD  
-----GRAAATG-

Original motif  
Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif  
Consensus sequence: DWACTTCRCRCTTTB



---

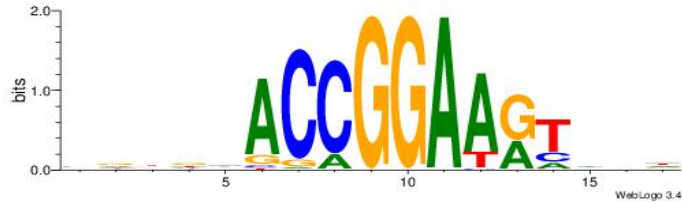
Motif ID: [UP00414](#)  
Motif name: Ets1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 7  
Similarity score: 0.0259997

Alignment:  
BDDDHACCGGAARTVDD  
-----GRAAATG--

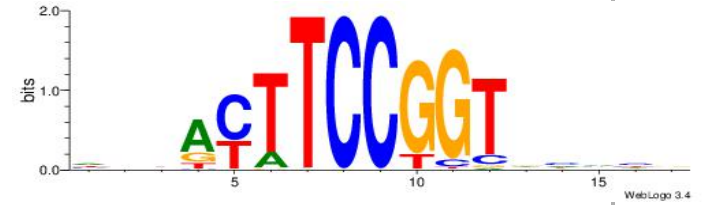
Original motif

Reverse complement motif

Consensus sequence: BDDDHACCGGAARTVDD



Consensus sequence: DDBAMTTCCGGTDHDB



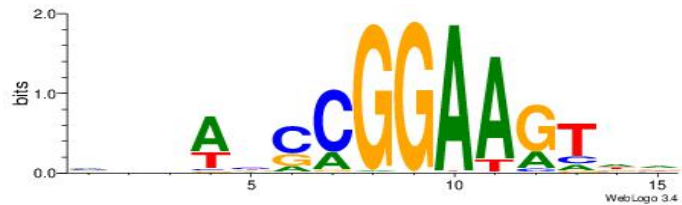
Motif ID: [UP00015](#)  
Motif name: Ehf\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 7  
Similarity score: 0.0272781

Alignment:

```
VBDABCCGGAAGTDD  
-----GRAAATG--
```

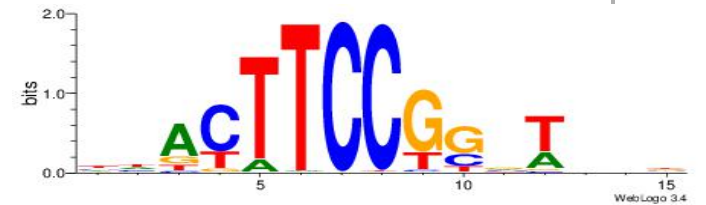
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



**Dataset #: 1**

**Motif ID: 16**

**Motif name: Motif 16**

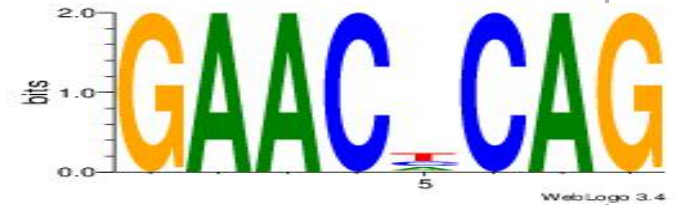
Original motif

Consensus sequence: CTGDGTTTC



Reverse complement motif

Consensus sequence: GAACDCAG



### Best Matches for Motif ID 16 (Highest to Lowest)

Motif ID: [UP00019](#)  
Motif name: Zbtb12\_primary  
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: 8  
Similarity score: 0.0157032

Alignment:

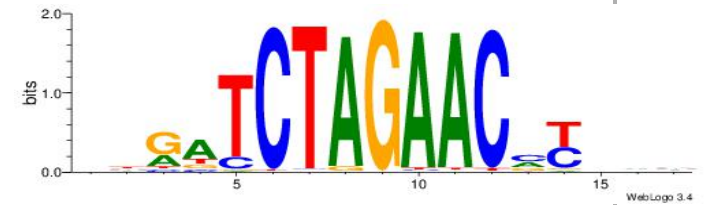
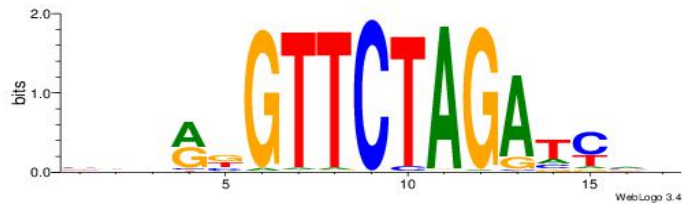
```
BDHRBGGTCTAGATCVB  
-CTGDGTTTC-----
```

Original motif

Consensus sequence: BDHRBGGTCTAGATCVB

Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB

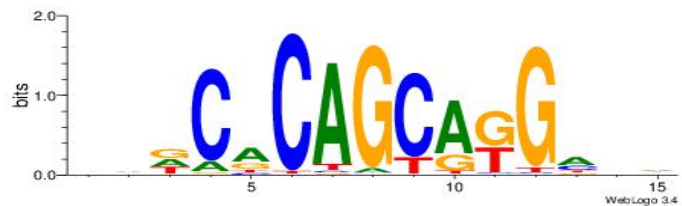


Motif ID: [UP00006](#)  
 Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0201417

Alignment:  
 DDDCACAGCAKGHVD  
 GAACDCAG-----

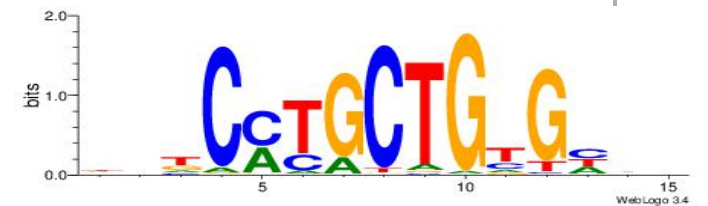
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



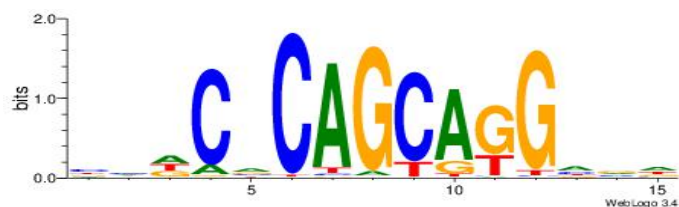
Motif ID: [UP00102](#)

Motif name: Zic1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 8  
 Similarity score: 0.0217587

Alignment:  
 BHDCVCAGCAGGHVD  
 GAACDCAG-----

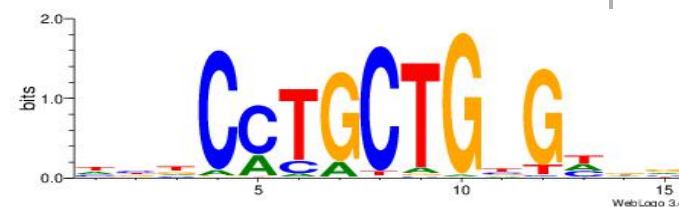
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB




---

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: 8  
 Number of overlap: 8



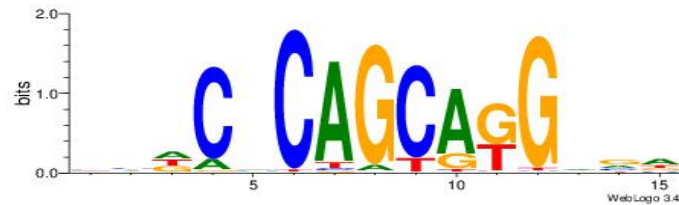
Similarity score: 0.0238424

Alignment:

DVBCYTGCTGBGDDD  
-----CTGDGTTT

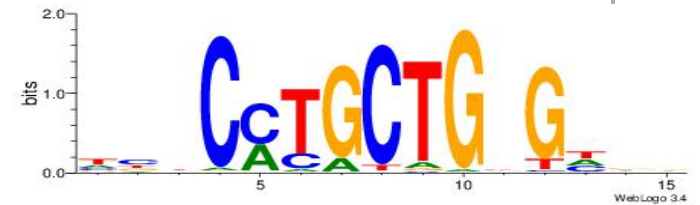
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00062](#)  
Motif name: Sox4\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0269844

Alignment:

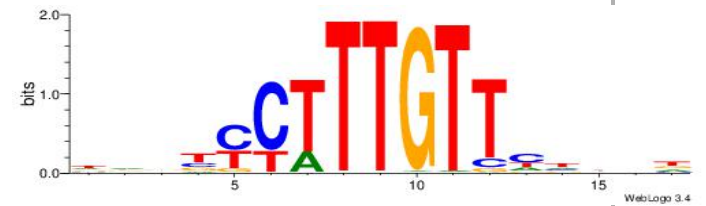
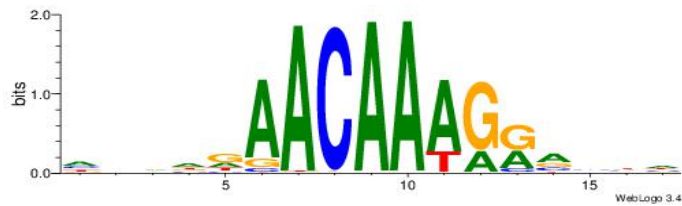
HBDDDAACAAAGRVBHH  
----GAACDCAG-----

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDDBH

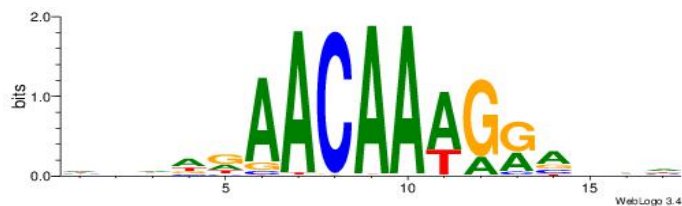


Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0275902

Alignment:  
 HBDDRAACAAAGRABHH  
 ----GAACDCAG-----

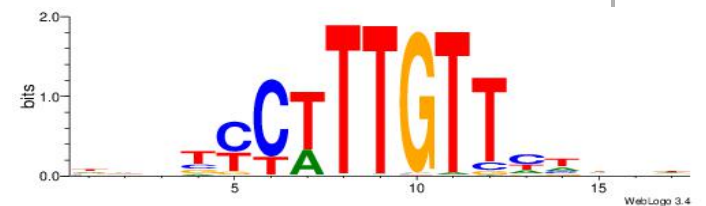
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



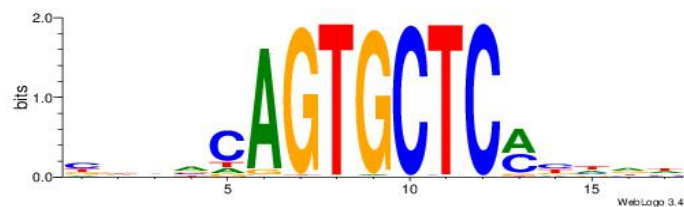
Motif ID: [UP00095](#)  
Motif name: Zfp691\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0327569

Alignment:

DDHBYGAGCACTGBHBB  
-----GAACDCAG-----

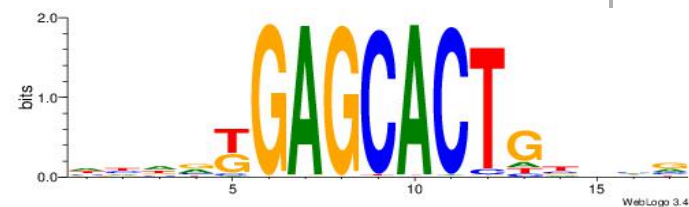
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHBB



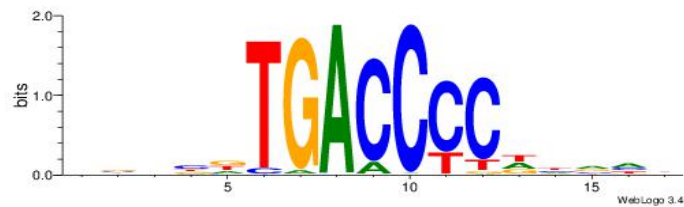
---

Motif ID: [UP00053](#)  
Motif name: Rxra\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7

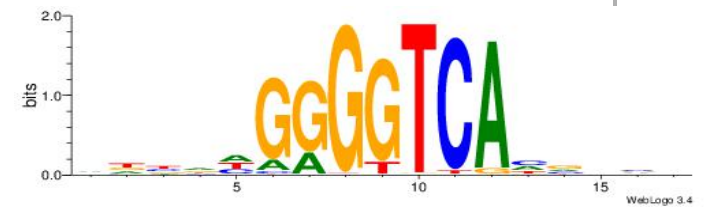
Number of overlap: 8  
Similarity score: 0.0328235

Alignment:  
VHBHDGGGGTCAHBHBD  
---CTGDGTTC-----

Original motif  
Consensus sequence: DBHBDTGACCCDHVHB



Reverse complement motif  
Consensus sequence: VHBHDGGGGTCAHBHBD



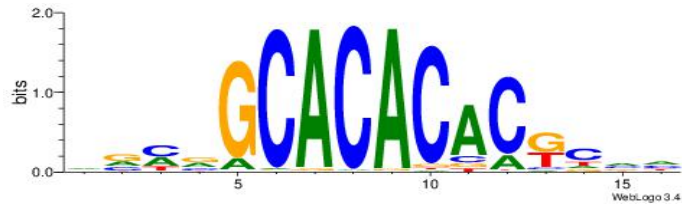
Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0346944

Alignment:  
DVMVGCACACACKCVH  
----GAACDCAG----

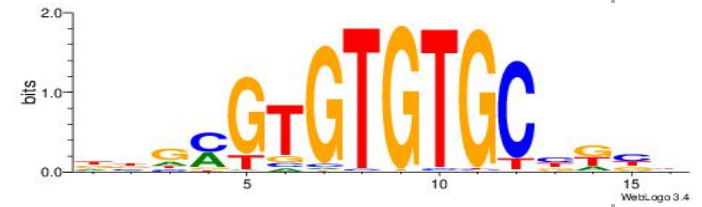
Original motif

Reverse complement motif

Consensus sequence: DVMVGCACACACKCVH



Consensus sequence: HBGYGTGTGTGCVRVD



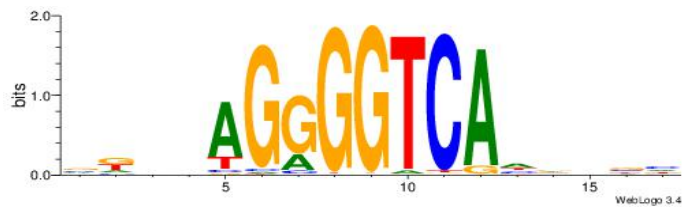
Motif ID: [UP00079](#)  
Motif name: Esrra\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0347789

Alignment:

```
VKBBAGGGGTCAHDBBH  
---CTGDGTTC-----
```

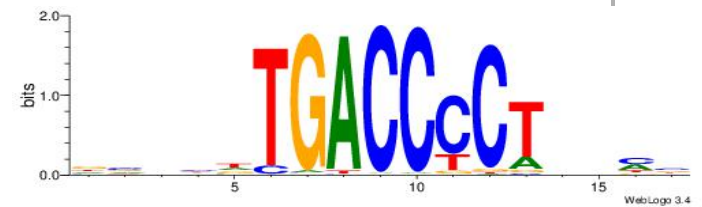
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



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

Original motif

Consensus sequence: RGGAAR



Reverse complement motif

Consensus sequence: MTTCC



### Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID:	<a href="#">UP00090</a>
Motif name:	Elf3_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:	6
Similarity score:	0

Alignment:

TDAMTTCCYYDTD

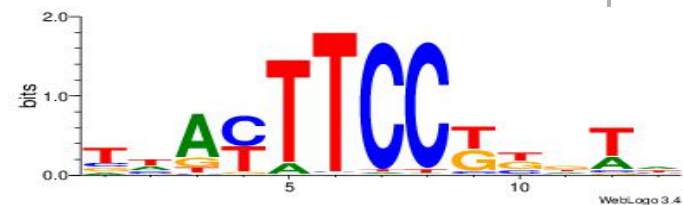
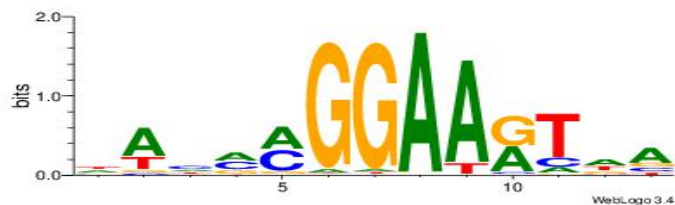
---MTTCC----

Original motif

Consensus sequence: DAHMMGGAARTDA

Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



Motif ID: [UP00085](#)  
 Motif name: Sfp1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00351709

Alignment:  
 BDAWGVGGAAGTDH  
 -----RGAAR----

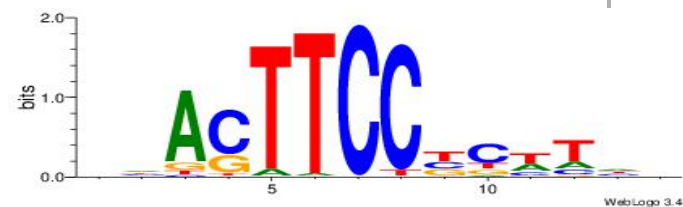
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



Motif ID: [UP00414](#)

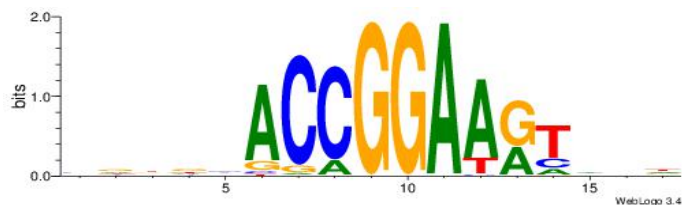
Motif name: Ets1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.00356242

**Alignment:**

DDBAMTTCCGGTDHDHB  
 ----MTTCK-----

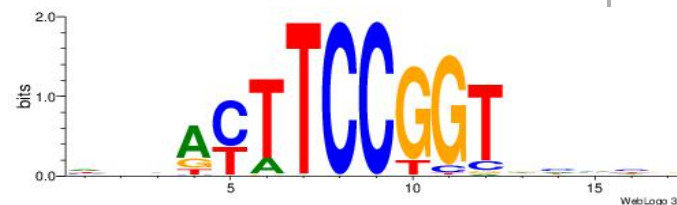
**Original motif**

Consensus sequence: BDDDHACCGGAARTVDD



**Reverse complement motif**

Consensus sequence: DDBAMTTCCGGTDHDHB




---

Motif ID: [UP00409](#)  
 Motif name: Elf5  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 6



Similarity score: 0.00439981

Alignment:

BWAHSMGGAAGTWD

-----RGGAAR---

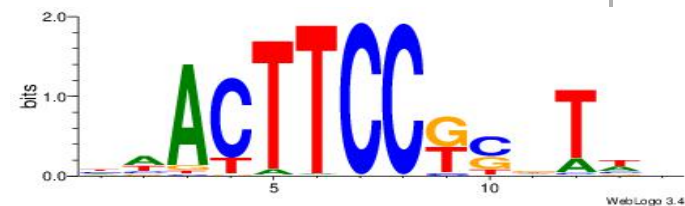
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00015](#)  
Motif name: Ehf\_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: 6  
Similarity score: 0.00655644

Alignment:

DDACTTCCGGBTHBB

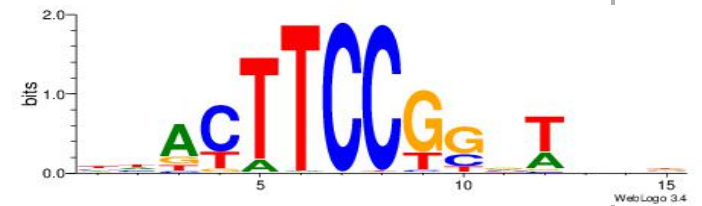
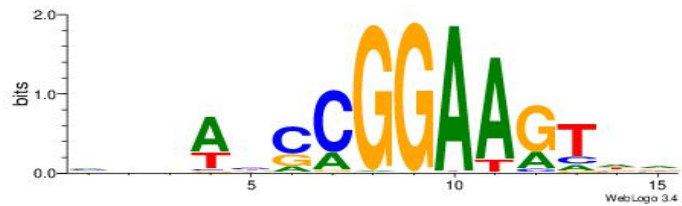
---MTTCK-----

Original motif

Consensus sequence: VBDABCCGGAAGTDD

Reverse complement motif

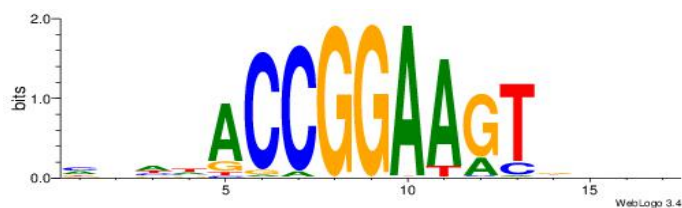
Consensus sequence: DDACTTCCGGBTHBB



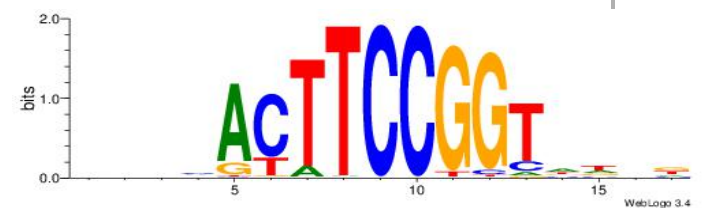
Motif ID: [UP00013](#)  
 Motif name: Gabpa\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00663687

Alignment:  
 BHHHACTTCCGGTHHBD  
 -----MTTCCK-----

Original motif  
 Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif  
 Consensus sequence: BHHHACTTCCGGTHHBD

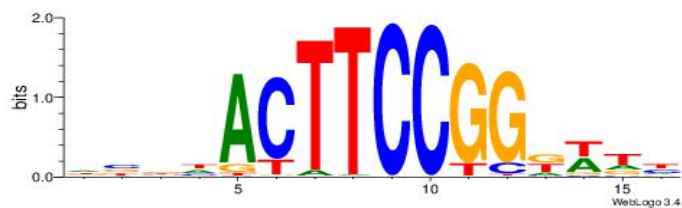


Motif ID: [UP00413](#)  
 Motif name: Elf4  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00896416

Alignment:  
 DBBHACTTCCGGKWTH  
 -----MTTCCK-----

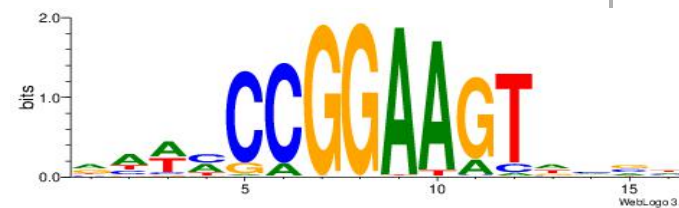
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00419](#)  
 Motif name: Spic  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4

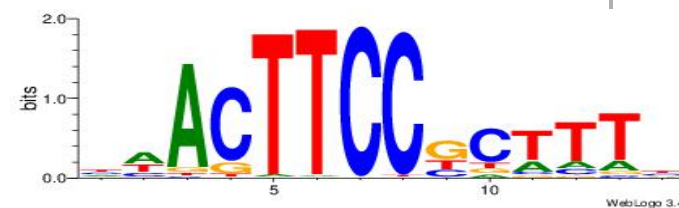
Number of overlap: 6  
Similarity score: 0.00975526

Alignment:  
VAAAGMGGAAAGTWD  
-----RGAAR---

Original motif  
Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif  
Consensus sequence: DWACTTCRCRCTTTB



---

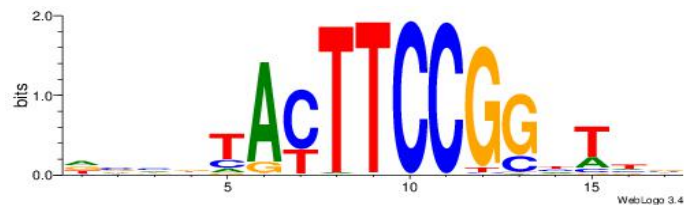
Motif ID: [UP00418](#)  
Motif name: Etv6  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 7  
Number of overlap: 6  
Similarity score: 0.0103447

Alignment:  
DVHBTACTTCCGGHTHB  
-----MTTCK-----

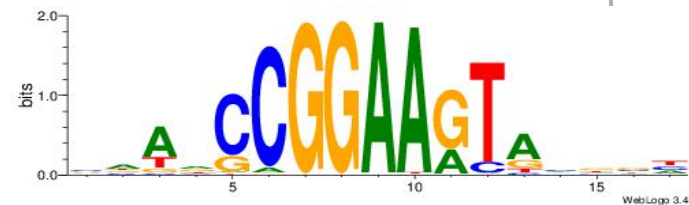
Original motif

Reverse complement motif

Consensus sequence: DVHBTACTTCCGGHTHB



Consensus sequence: BHAHCCGGAAGTABDVD



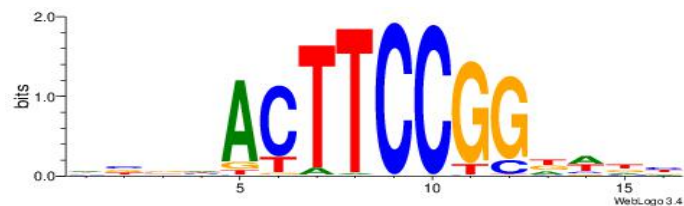
Motif ID: [UP00404](#)  
Motif name: Elf2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.010491

Alignment:

```
DBBHACTTCCGGDWDB  
-----MTTCCK-----
```

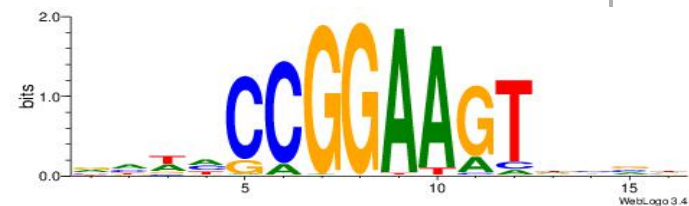
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



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

Original motif

Consensus sequence: AMACA



Reverse complement motif

Consensus sequence: TGTRT



### Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID:	<a href="#">UP00042</a>
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	5
Similarity score:	0

Alignment:

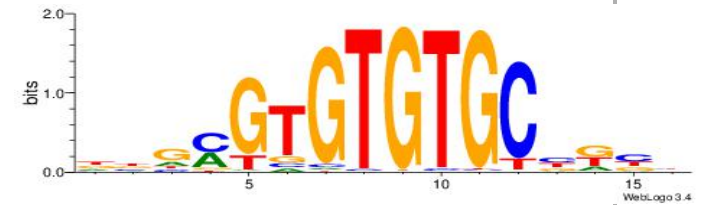
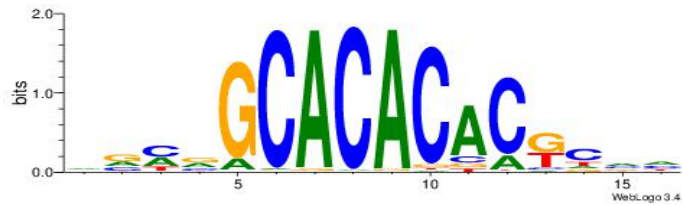
```
DVMVGCACACACKCVH  
-----AMACA-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

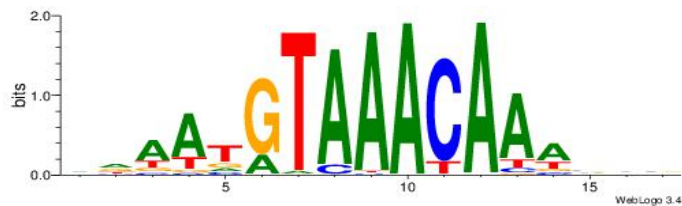
Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 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: 5  
 Similarity score: 0.00605402

Alignment:  
 DDAATGTAAACAAAVVB  
 -----AMACA-----

Original motif  
 Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif  
 Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00041](#)

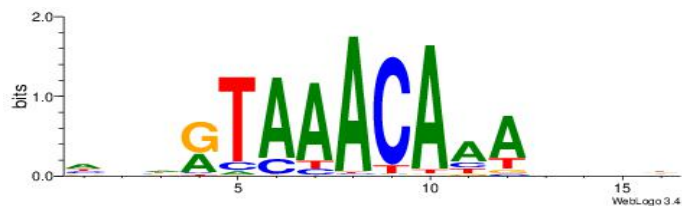
Motif name: Foxj1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 5  
 Similarity score: 0.00753267

Alignment:

HDHRTAAACAAAHDDD  
 -----AMACA-----

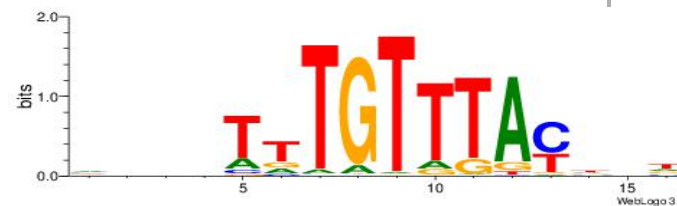
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH




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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: Forward  
 Position number: 8  
 Number of overlap: 5



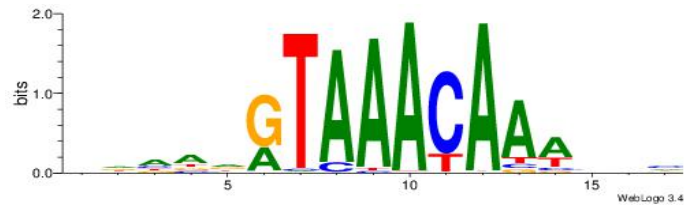
Similarity score: 0.00965634

Alignment:

HDHADGTAAACAAAVVH  
-----AMACA-----

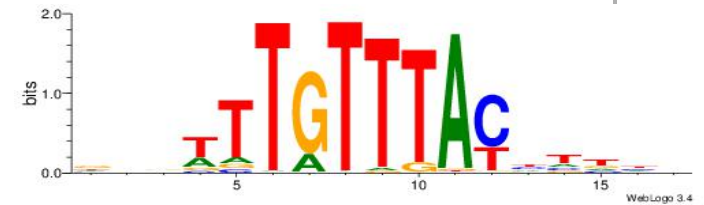
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00061](#)  
Motif name: Foxl1\_primary  
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: 5  
Similarity score: 0.00989492

Alignment:

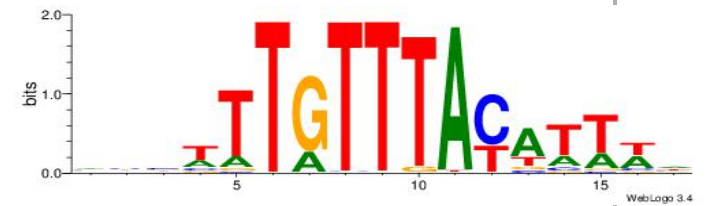
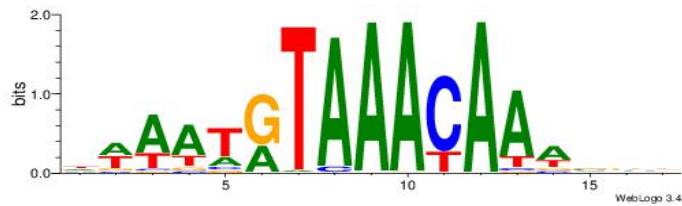
DWAATR TAAACAAWVVB  
-----AMACA-----

Original motif

Consensus sequence: DWAATR TAAACAAWVVB

Reverse complement motif

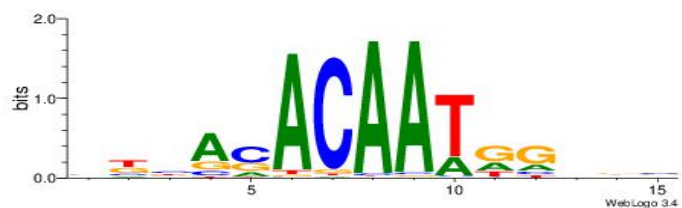
Consensus sequence: VVWTTGTTTAMATTWD



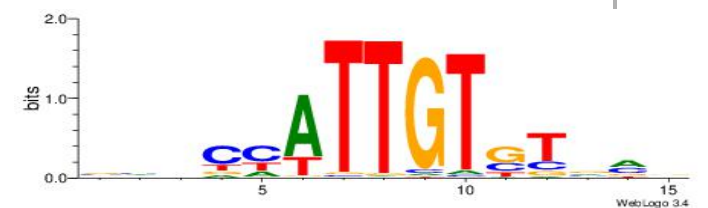
Motif ID: [UP00004](#)  
 Motif name: Sox14\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 5  
 Similarity score: 0.0116453

Alignment:  
 BBDCMATTGTSTBRB  
 -----TGTRT----

Original motif  
 Consensus sequence: BKBASACAATRGHBB



Reverse complement motif  
 Consensus sequence: BBDCMATTGTSTBRB



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: 6  
 Number of overlap: 5  
 Similarity score: 0.0143122

Alignment:  
 HHWAWGTAAAYAAVDB  
 -----AMACA-----

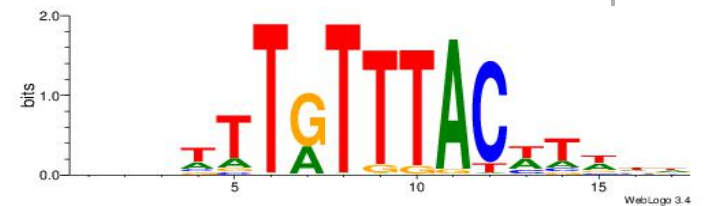
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

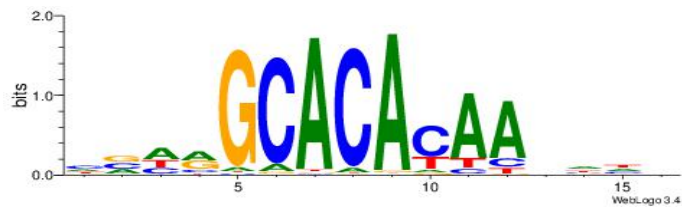


Motif ID: [UP00026](#)  
 Motif name: Zscan4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6

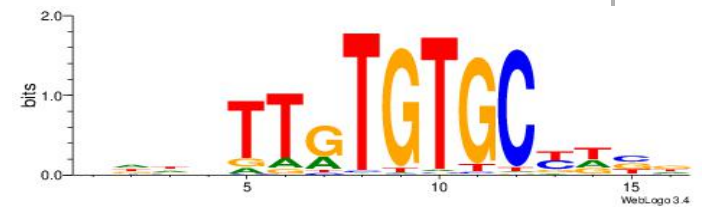
Number of overlap: 5  
Similarity score: 0.0153228

Alignment:  
BHHHTTGTGTGCKHVD  
-----TGTRT-----

Original motif  
Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif  
Consensus sequence: BHHHTTGTGTGCKHVD



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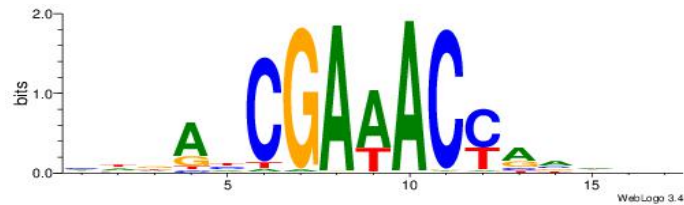
Motif ID: [UP00011](#)  
Motif name: Irf6\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 5  
Similarity score: 0.024195

Alignment:  
DHDBTKGTTTCGHTHDD  
-----TGTRT-----

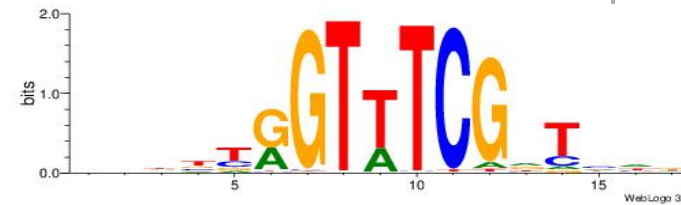
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD



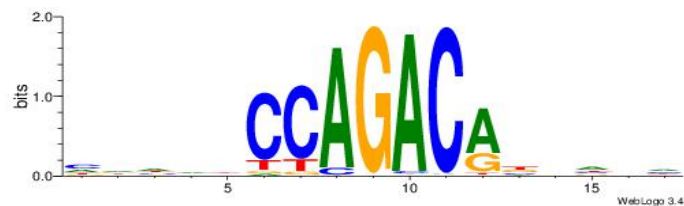
Motif ID: [UP00000](#)  
Motif name: Smad3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 8  
Number of overlap: 5  
Similarity score: 0.0255974

Alignment:

```
HDHDDCCAGACABBHVH  
-----AMACA-----
```

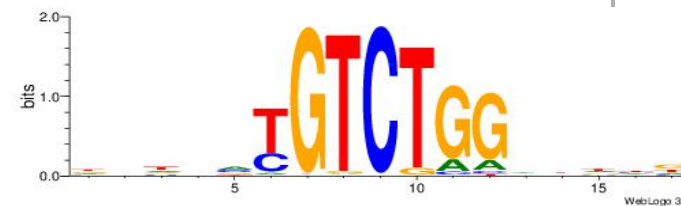
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



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

Original motif

Consensus sequence: AGSCWGG



Reverse complement motif

Consensus sequence: CCWGSCT



### Best Matches for Motif ID 19 (Highest to Lowest)

Motif ID: [UP00035](#)  
Motif name: Hic1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 7  
Similarity score: 0

Alignment:

DDBHGGTTGGCATVBD

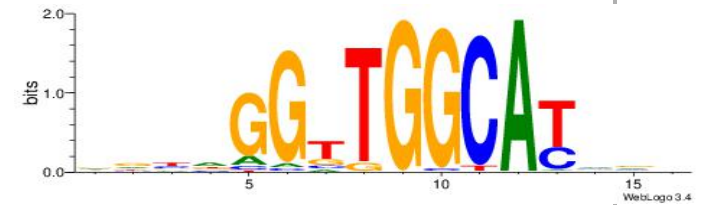
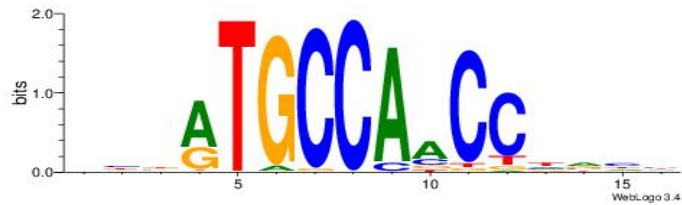
---AGSCWGG-----

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

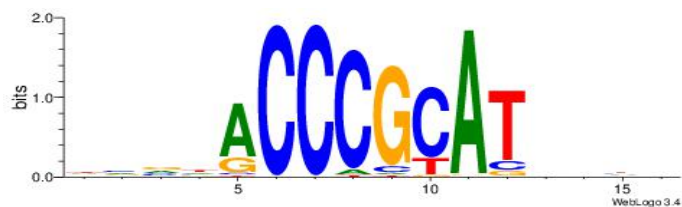


Motif ID: [UP00070](#)  
 Motif name: Gcm1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 7  
 Similarity score: 0.00560414

Alignment:  
 DHDVATGCGGGTHVVH  
 ----AGSCWGG-----

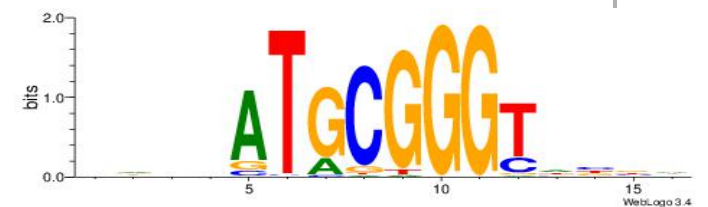
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



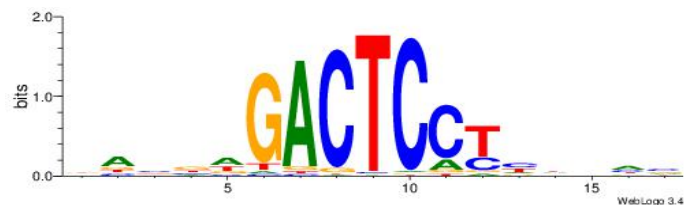
Motif ID: [UP00095](#)

Motif name: Zfp691\_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: 7  
 Similarity score: 0.0109149

Alignment:  
 DABBWGACTCCTHDVHV  
 --CCWGSCT-----

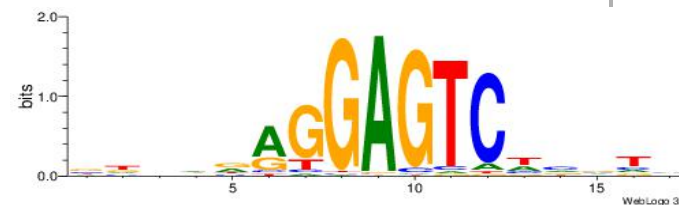
Original motif

Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD




---

Motif ID: [UP00006](#)  
 Motif name: Zic3\_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: 7



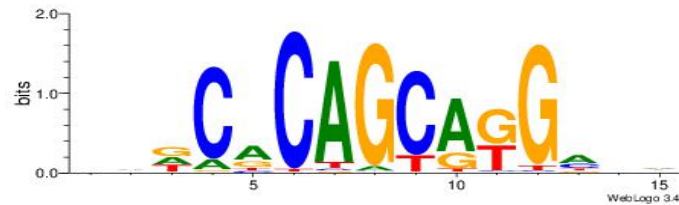
Similarity score: 0.0109242

Alignment:

DVHCYTGCTGTGHDH  
--CCWGSCT-----

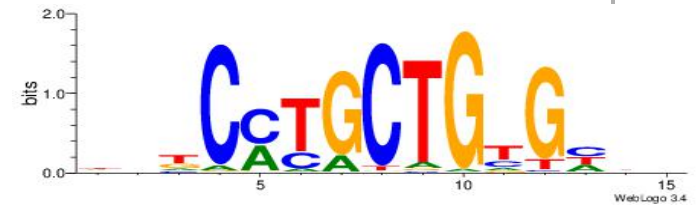
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP00000](#)  
Motif name: Smad3\_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: 7  
Similarity score: 0.0114503

Alignment:

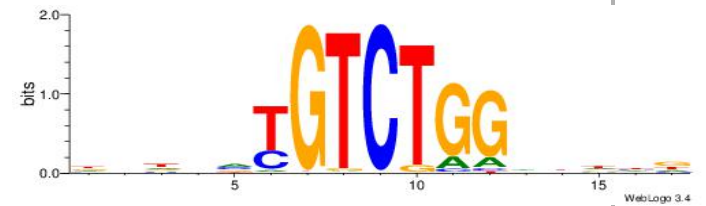
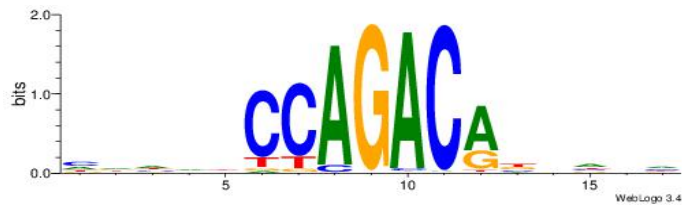
HDHDDCCAGACABBHVH  
-----CCWGSCT-----

Original motif

Consensus sequence: HDHDDCCAGACABBHVH

Reverse complement motif

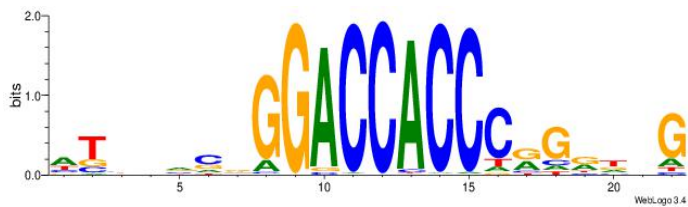
Consensus sequence: HVHBVTGTCTGGDDHDD



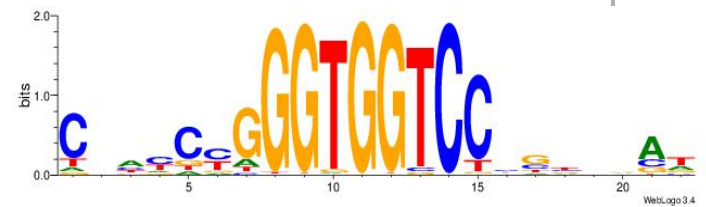
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 7  
 Similarity score: 0.0115258

Alignment:  
 CBDMCMGGGTGGTCCHVBVBAH  
 -----AGSCWGG-----

Original motif  
 Consensus sequence: HTBVVDGGACCACCCRGRDBG



Reverse complement motif  
 Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



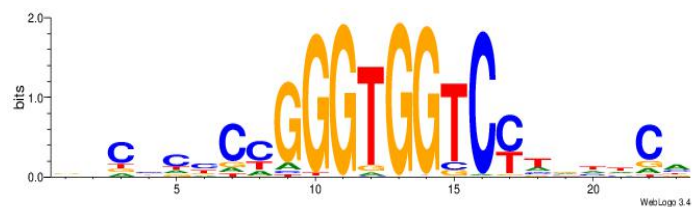
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 10  
 Number of overlap: 7  
 Similarity score: 0.0117486

**Alignment:**

HGDHVHKGACCACCCGGBGBGDB  
 -----CCWGSCT-----

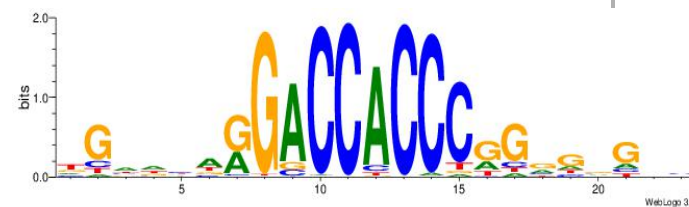
**Original motif**

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



**Reverse complement motif**

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 11

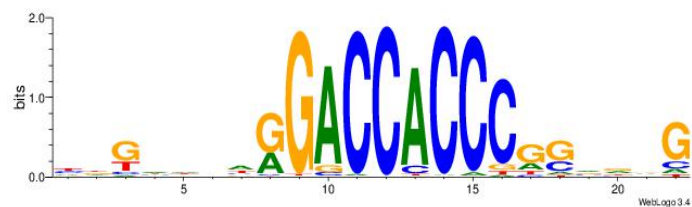
Number of overlap: 7  
Similarity score: 0.0131676

Alignment:

CVHBSCGGGTGGTCMHVHHCDH  
-----AGSCWGG-----

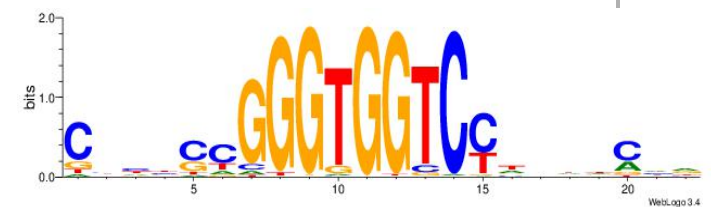
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00081](#)  
Motif name: Mybl1\_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: 7  
Similarity score: 0.0136026

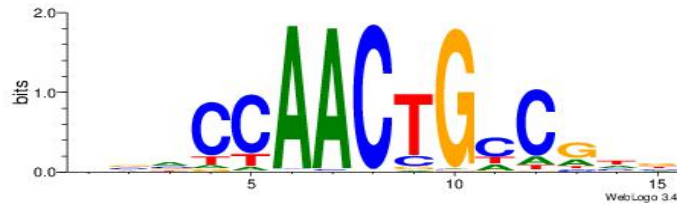
Alignment:

BHCGGCAGTTGGBBB  
--AGSCWGG-----

Original motif

Reverse complement motif

Consensus sequence: BBVCCAAC TGCCGHB



Consensus sequence: BHCGGCAGTTGGBBB



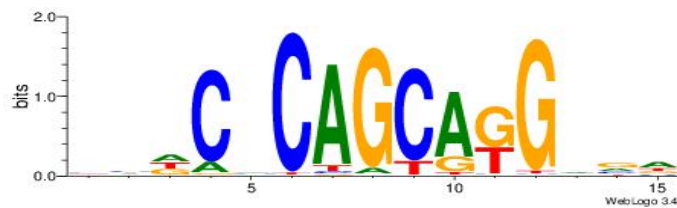
Motif ID: [UP00057](#)  
Motif name: Zic2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 7  
Similarity score: 0.0139558

Alignment:

```
DVBCYTGCTGBGDDD  
--CCWGSCT-----
```

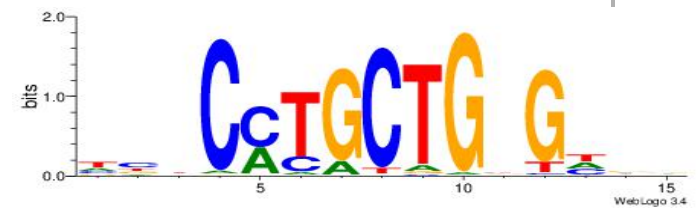
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



**Dataset #: 2**

**Motif ID: 20**

**Motif name: Motif 20**

Original motif

Consensus sequence: CTCTGY



Reverse complement motif

Consensus sequence: KCAGAG



### Best Matches for Motif ID 20 (Highest to Lowest)

Motif ID: [UP00031](#)  
Motif name: Zbtb3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 7  
Number of overlap: 6  
Similarity score: 0

Alignment:

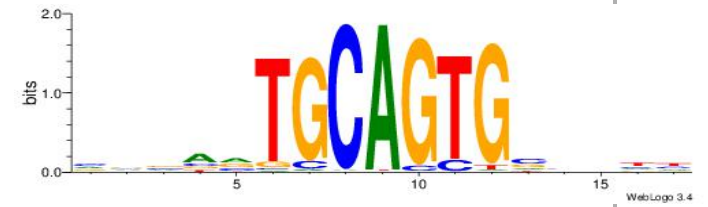
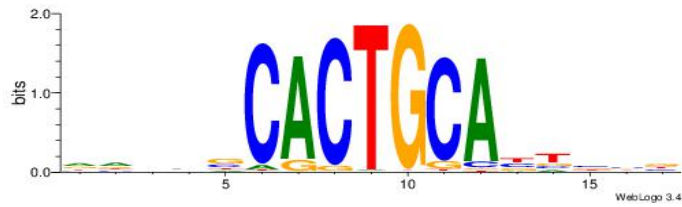
```
BBBAVTGCAGTGBBVDD  
-----KCAGAG-----
```

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

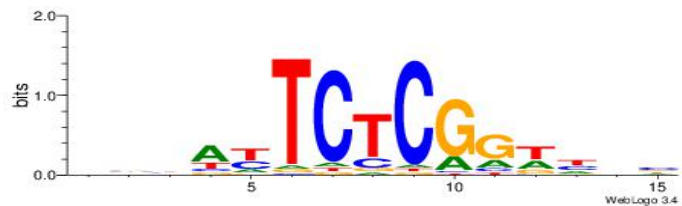


Motif ID: [UP00018](#)  
 Motif name: Irf4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 6  
 Similarity score: 0.00610915

Alignment:  
 BHHWCCGAGAMTVVB  
 ---KCAGAG-----

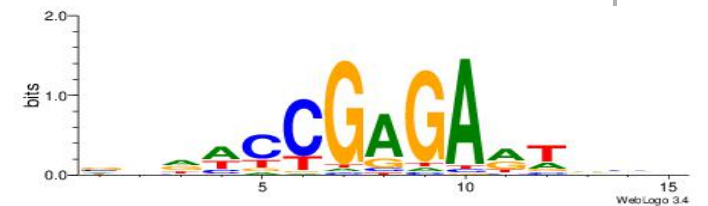
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [UP00095](#)

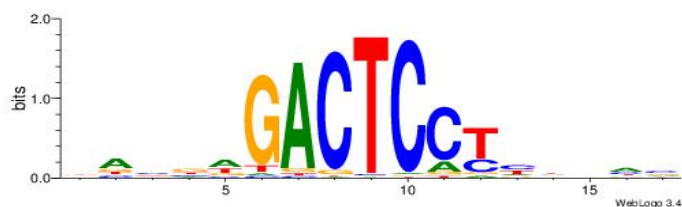
Motif name: Zfp691\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.00648219

**Alignment:**

VHBDDAGGAGTCWBBTD  
 ----KCAGAG-----

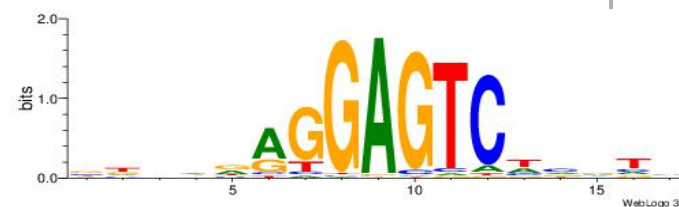
**Original motif**

Consensus sequence: DABBWGACTCCTHDTVHV



**Reverse complement motif**

Consensus sequence: VHBDDAGGAGTCWBBTD




---

Motif ID: [UP00006](#)  
 Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 6



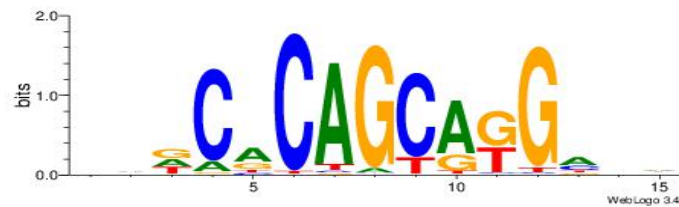
Similarity score: 0.00853125

Alignment:

DDDCACAGCAKGHVD  
--KCAGAG-----

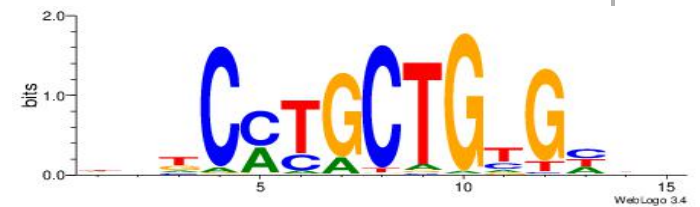
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



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: 6  
Similarity score: 0.00895004

Alignment:

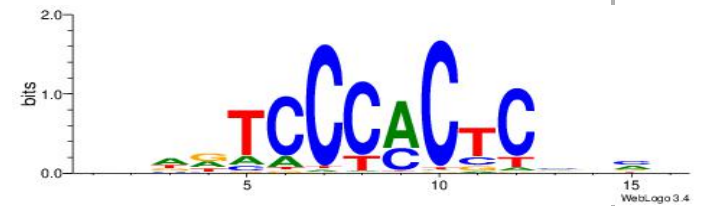
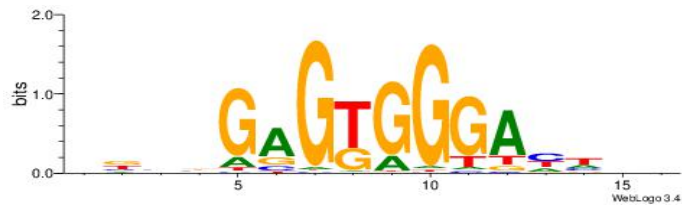
BHHDTCCCACTCBDBV  
-----CTCTGY-

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV

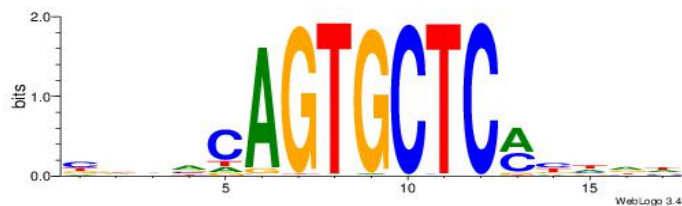


Motif ID: [UP00095](#)  
 Motif name: Zfp691\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.00955889

Alignment:  
 DDHBYGAGCACTGBHBB  
 -----CTCTGY----

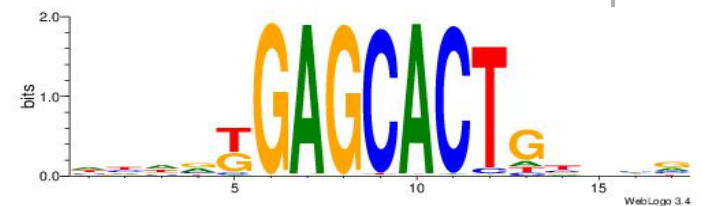
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHBB



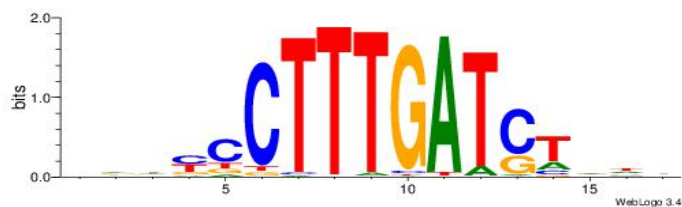
Motif ID: [UP00067](#)  
 Motif name: Lef1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.0106184

Alignment:

VDDAGATCAAAGGKDDD  
 -----KCAGAG-----

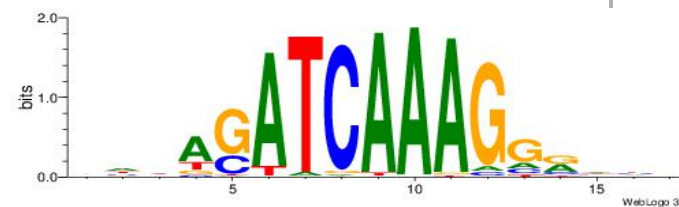
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

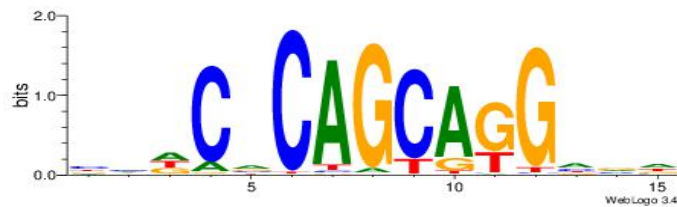


Motif ID: [UP00102](#)  
 Motif name: Zic1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 8

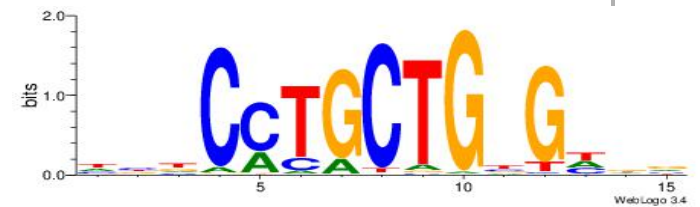
Number of overlap: 6  
Similarity score: 0.0122635

Alignment:  
BHDCVCAGCAGGHVD  
--KCAGAG-----

Original motif  
Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif  
Consensus sequence: DVHCCTGCTGBGDDDB



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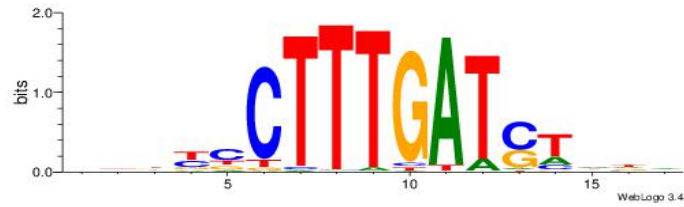
Motif ID: [UP00083](#)  
Motif name: Tcf7l2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.0131237

Alignment:  
BDDASATCAAAGMDDD  
-----KCAGAG-----

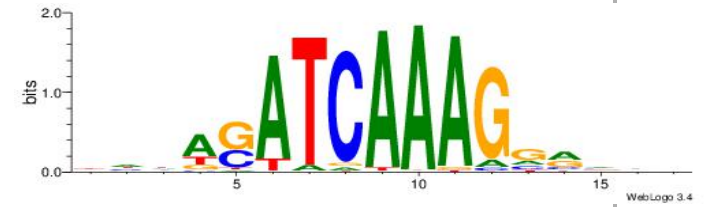
Original motif

Reverse complement motif

Consensus sequence: DDDYCCTTTGATSTDDV



Consensus sequence: BDDASATCAAAGMDDD



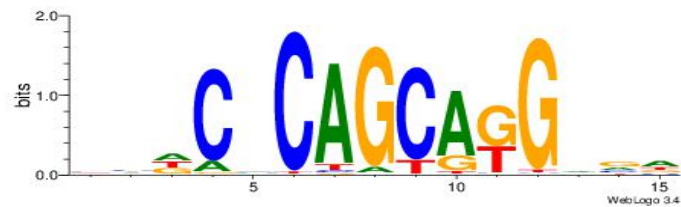
Motif ID: [UP00057](#)  
Motif name: Zic2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 6  
Similarity score: 0.0136526

Alignment:

```
HHDCVCAGCAKGVVD  
--KCAGAG-----
```

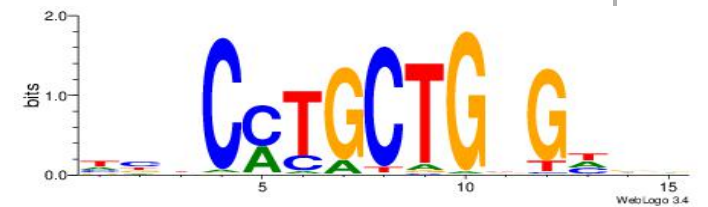
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



**Dataset #: 2**

**Motif ID: 21**

**Motif name: Motif 21**

Original motif

Consensus sequence: ATKTM



Reverse complement motif

Consensus sequence: RARAT



### Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID: [UP00080](#)  
Motif name: Gata5\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 9  
Number of overlap: 5  
Similarity score: 0

Alignment:

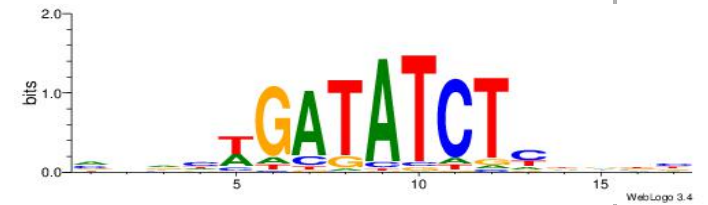
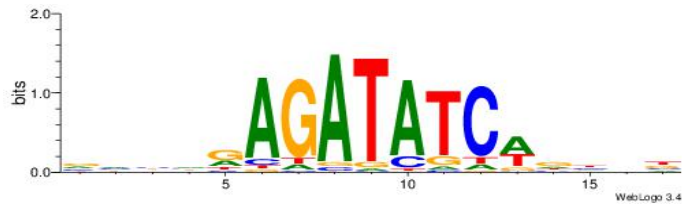
```
VVBHRAGATATCWDHBB  
-----RARAT-----
```

Original motif

Consensus sequence: VVBHRAGATATCWDHBB

Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV



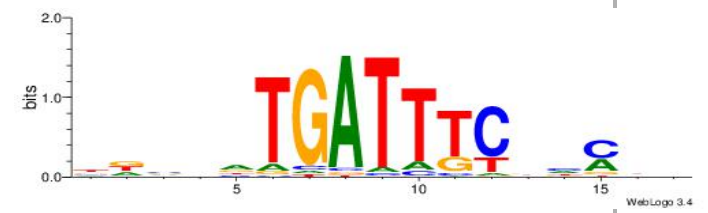
Motif ID: [UP00148](#)  
 Motif name: Hdx  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 5  
 Similarity score: 0.00279496

Alignment:  
 BDBDHTGATTTCDHYDD  
 -----ATKTM-----

Original motif  
 Consensus sequence: DDKDHGAAATCAHBBHV



Reverse complement motif  
 Consensus sequence: BDBDHTGATTTCDHYDD



Motif ID: [UP00032](#)

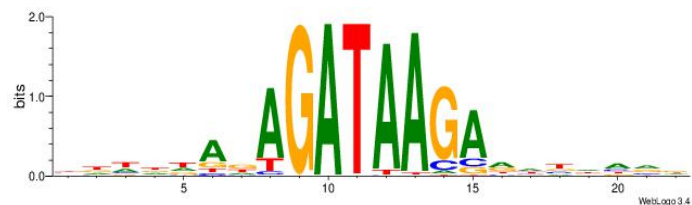
Motif name: Gata3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 12  
 Number of overlap: 5  
 Similarity score: 0.00967655

Alignment:

BDHDDADAGATAAGADHBDHVD  
 -----RARAT-----

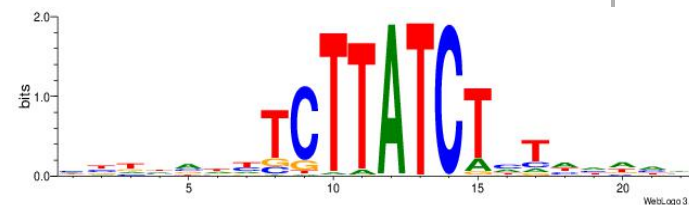
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDHDV




---

Motif ID: [UP00250](#)  
 Motif name: Irx5  
 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: 5



Similarity score: 0.0116566

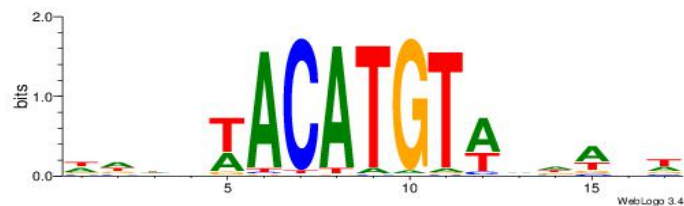
Alignment:

DDDHWACATGTWHDABW

-----ATKTM-----

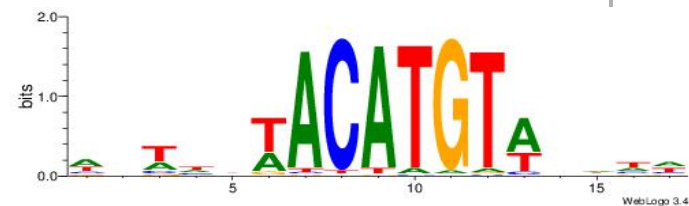
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDHWACATGTWHD



Motif ID: [UP00236](#)  
Motif name: Irx2  
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: 5  
Similarity score: 0.0120196

Alignment:

WDDDTACATGTADDWBW

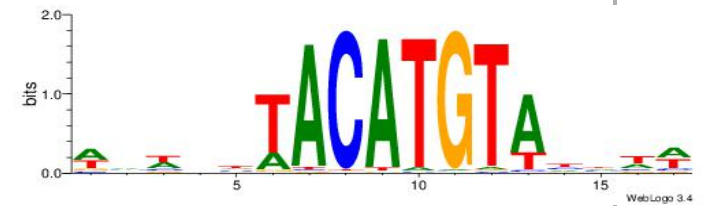
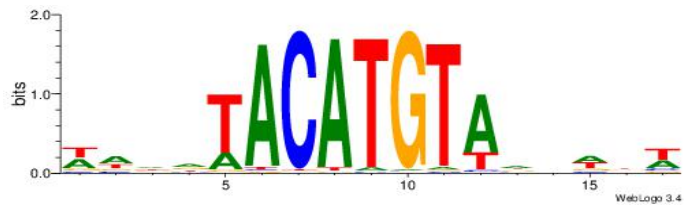
-----ATKTM-----

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WVWDDTACATGTADDW

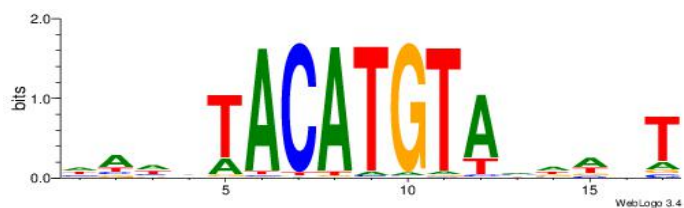


Motif ID: [UP00150](#)  
 Motif name: Irx6  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 5  
 Similarity score: 0.0120601

Alignment:  
 HAHDTACATGTAVDWHT  
 -----ATKTM-----

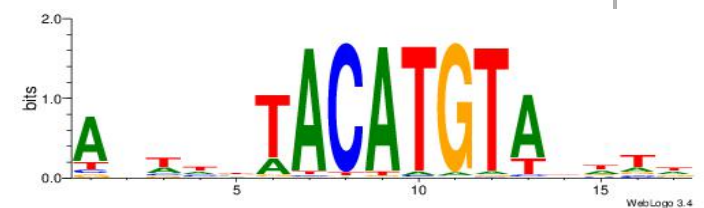
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



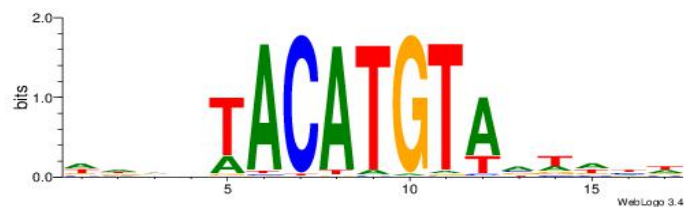
Motif ID: [UP00223](#)  
Motif name: Irx3\_2226.1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 5  
Similarity score: 0.0124884

Alignment:

DDDHTACATGTAVWDHD  
-----ATKTM-----

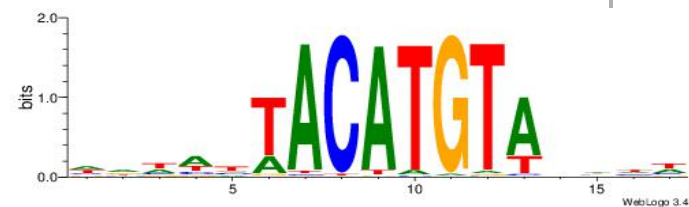
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



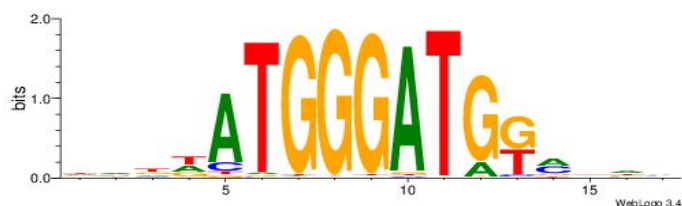
---

Motif ID: [UP00033](#)  
Motif name: Zfp410\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 10

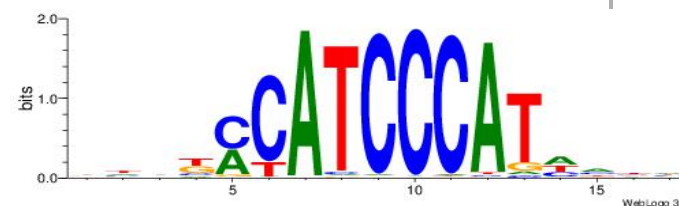
Number of overlap: 5  
Similarity score: 0.0150044

Alignment:  
DVDDATGGGATGKMDDV  
-----ATKTM----

Original motif  
Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif  
Consensus sequence: BDDYYCATCCCATDDBD



---

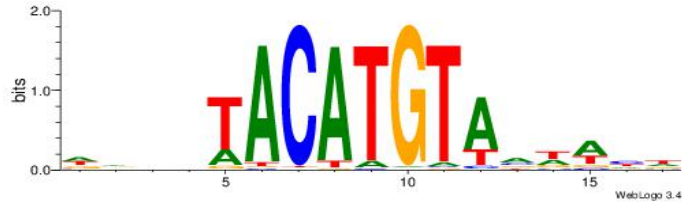
Motif ID: [UP00223](#)  
Motif name: Irx3\_0920.1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 8  
Number of overlap: 5  
Similarity score: 0.0150192

Alignment:  
DDDDTACATGTAVWWHD  
-----ATKTM-----

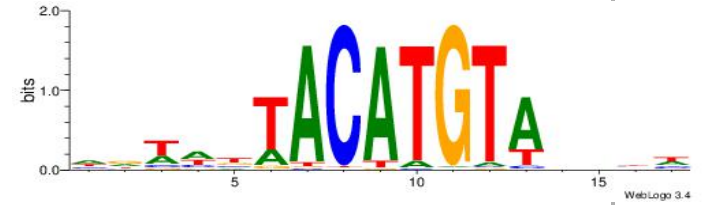
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVVWHD



Consensus sequence: DDWWBTACATGTADDDD



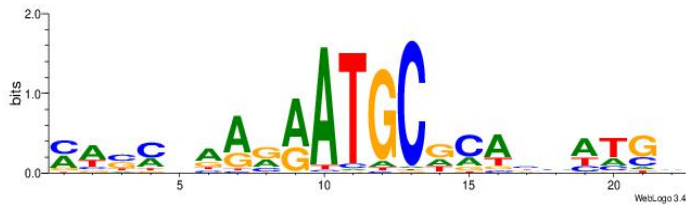
Motif ID: [UP00528](#)  
 Motif name: Foxm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 5  
 Similarity score: 0.0166075

Alignment:

MWSMBAARRATGCD CABHATGD  
 -----RARAT-----

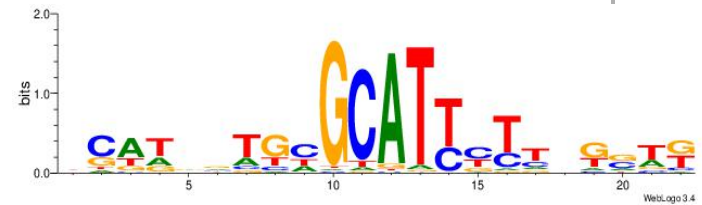
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

Original motif

Consensus sequence: CMGCRGC



Reverse complement motif

Consensus sequence: GCKGCTG



### Best Matches for Motif ID 22 (Highest to Lowest)

Motif ID:	<a href="#">UP00052</a>
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:	7
Similarity score:	0

Alignment:

HHHHGCTACKGTHVHH

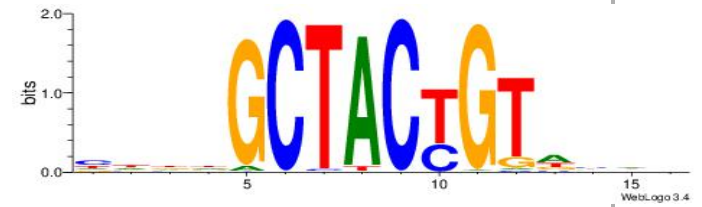
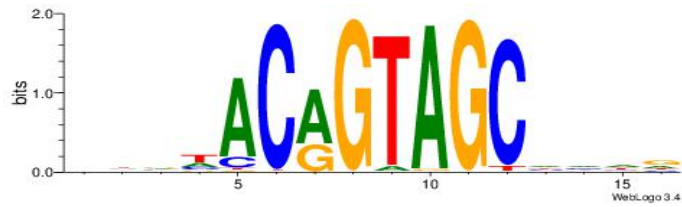
----GCKGCTG-----

Original motif

Consensus sequence: HHVHACRGTAGCHHHD

Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH

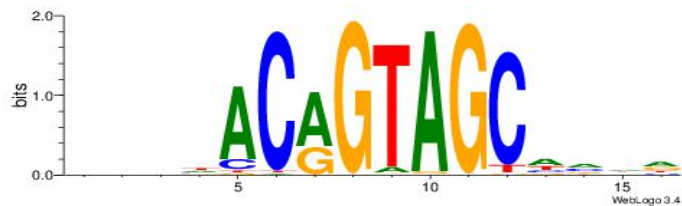


Motif ID: [UP00027](#)  
 Motif name: Osr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 7  
 Similarity score: 0.00108105

Alignment:  
 DHBHGCTACKGTHDHH  
 ----GCKGCG-----

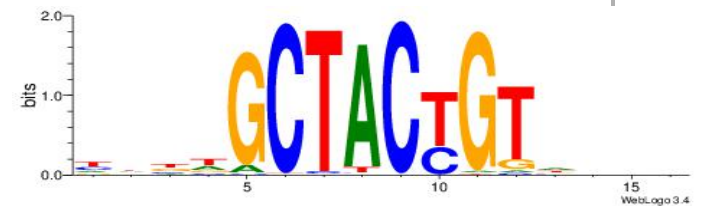
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00099](#)

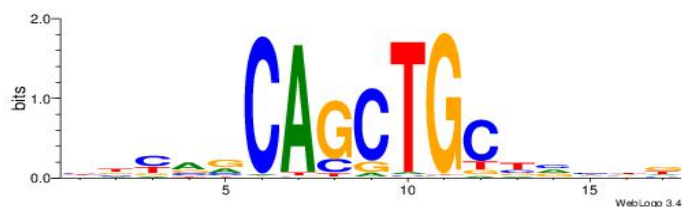
Motif name: Ascl2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 7  
 Similarity score: 0.00905497

**Alignment:**

BBYVVCAGCTGCBVHHD  
 -----GCKGCGY----

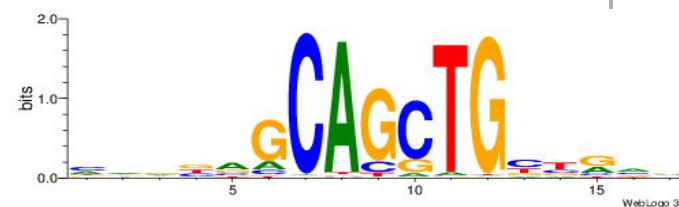
**Original motif**

Consensus sequence: BBYVVCAGCTGCBVHHD



**Reverse complement motif**

Consensus sequence: HHDVVCAGCTGVBKVB




---

Motif ID: [UP00102](#)  
 Motif name: Zic1\_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: 7



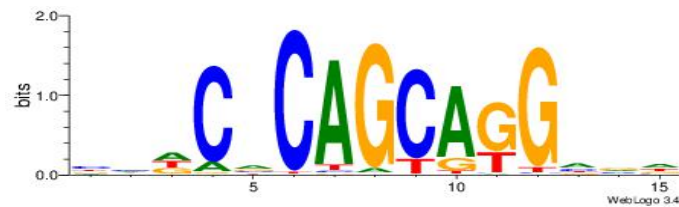
Similarity score: 0.0111061

Alignment:

BHDCVCAGCAGGHVD  
-----CMGCRGC----

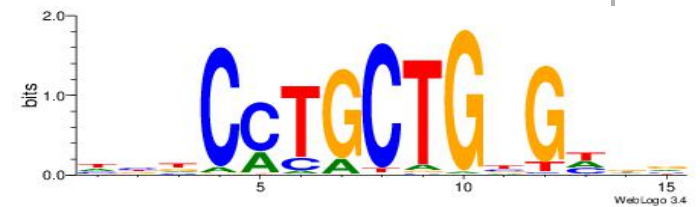
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDB



Motif ID: [UP00057](#)  
Motif name: Zic2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 7  
Similarity score: 0.0126897

Alignment:

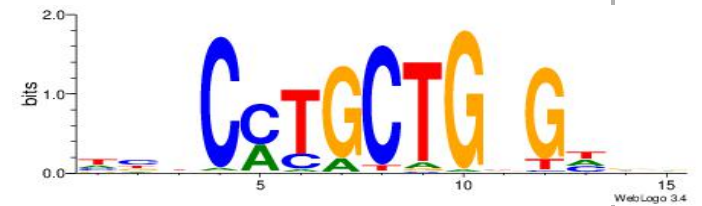
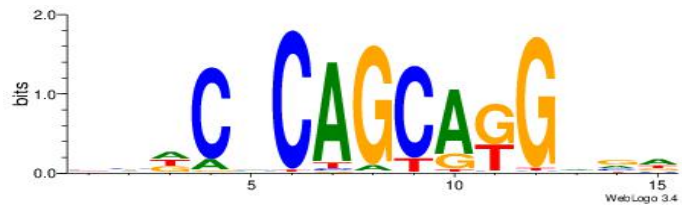
HHDCVCAGCAKGVVD  
-----CMGCRGC----

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD

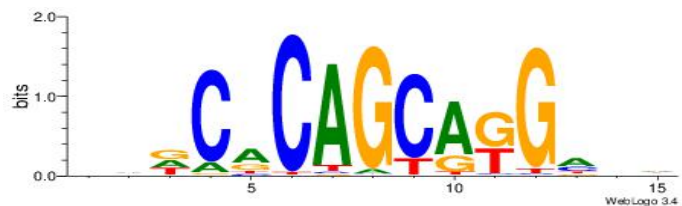


Motif ID: [UP00006](#)  
 Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 7  
 Similarity score: 0.0137402

Alignment:  
 DVHCYTGCTGTGHDH  
 ---GCKGCG-----

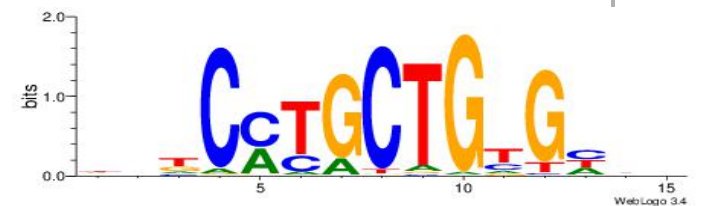
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



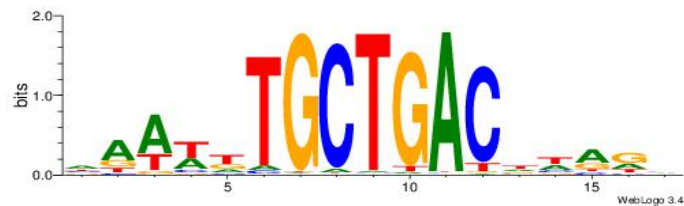
Motif ID: [UP00045](#)  
 Motif name: Mafb\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 7  
 Similarity score: 0.0253076

Alignment:

DMTWDGTCAGCADWTTTH  
 -----CMGCRGC-----

Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTTH



Motif ID: [UP00193](#)  
 Motif name: Rhox11\_1765.2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9

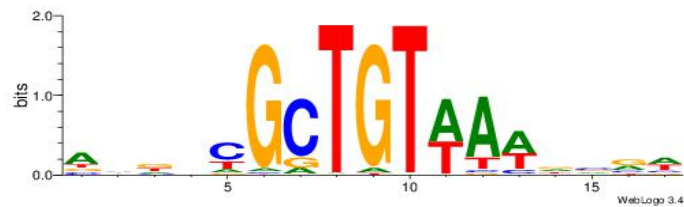
Number of overlap: 7  
Similarity score: 0.0292668

Alignment:

WVHWTWACAGCGBHBT  
-----CMGCRGC--

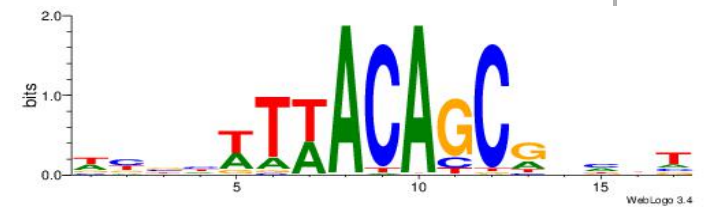
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

Consensus sequence: WVHWTWACAGCGBHBT



---

Motif ID: [UP00193](#)  
Motif name: RhoX11\_2205.1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 7  
Similarity score: 0.0298083

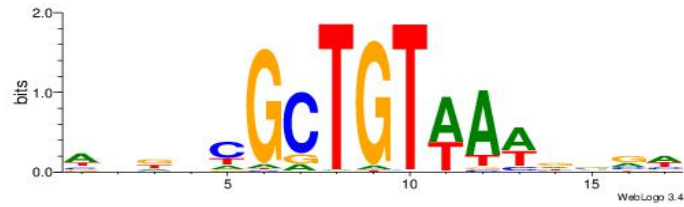
Alignment:

WVHWTWACAGCGHHVT  
-----CMGCRGC--

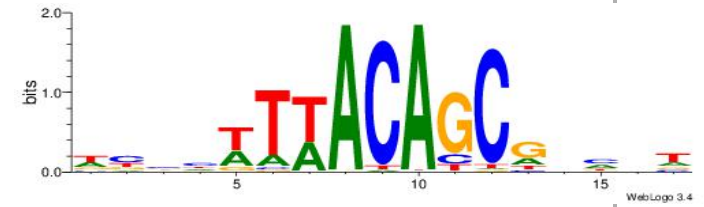
Original motif

Reverse complement motif

Consensus sequence: AVDHCGCTGTWAWDVVW



Consensus sequence: WVVHWTWACAGCGHHVT



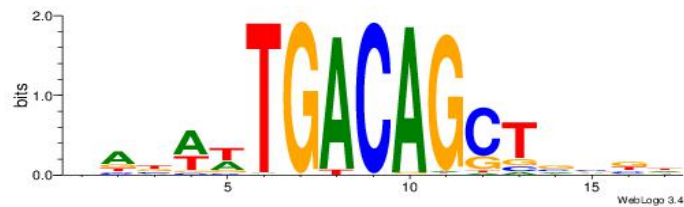
Motif ID: [UP00122](#)  
Motif name: Tgif1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 9  
Number of overlap: 7  
Similarity score: 0.0332976

Alignment:

```
DABWWTGACAGCTVVBD  
-----CMGCRGC---
```

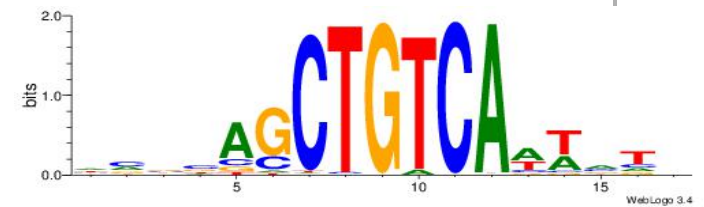
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWVWTH



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

Original motif

Consensus sequence: CCCRCCCC



Reverse complement motif

Consensus sequence: GGGGMGGG



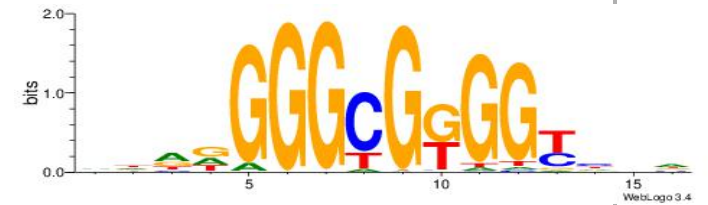
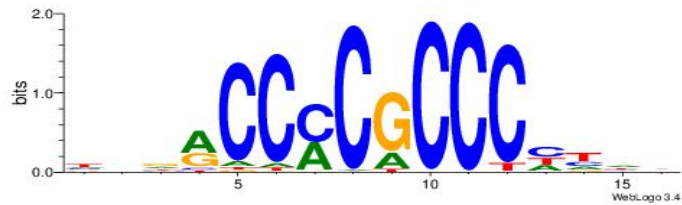
**Best Matches for Motif ID 23 (Highest to Lowest)**

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: 4  
Number of overlap: 8  
Similarity score: 0

Alignment:  
HBDRCMCGCCCHHHD  
-----CCCRCCCC---

Original motif  
Consensus sequence: HBDRCMCGCCCHHHD

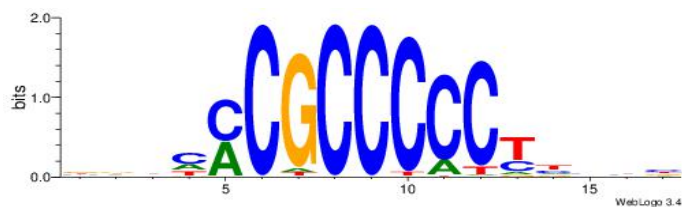
Reverse complement motif  
Consensus sequence: DHHDGGGCGRGGKHBH



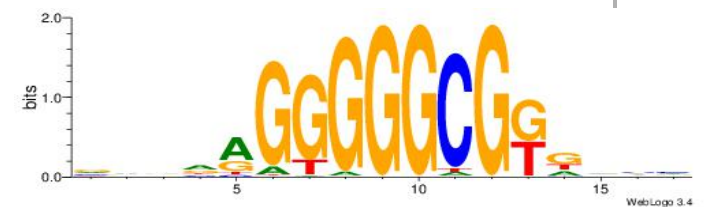
Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00490878

Alignment:  
 BVVHAGGGGGCGRDHBB  
 -----GGGGMGGG----

Original motif  
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif  
 Consensus sequence: BVVHAGGGGGCGRDHBB



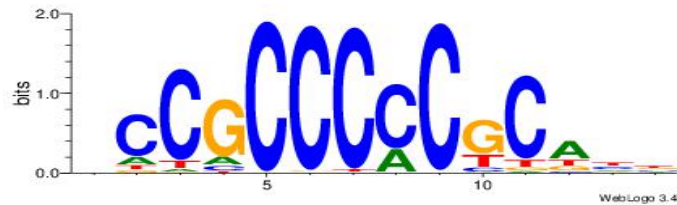
Motif ID: [UP00007](#)

Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 8  
 Similarity score: 0.0101441

Alignment:  
 HCCGCCCCCGCAHB  
 CCCRCCCC-----

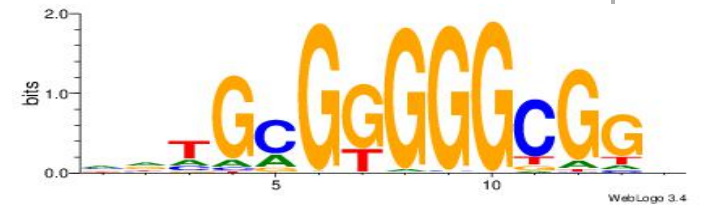
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH




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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: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0106908

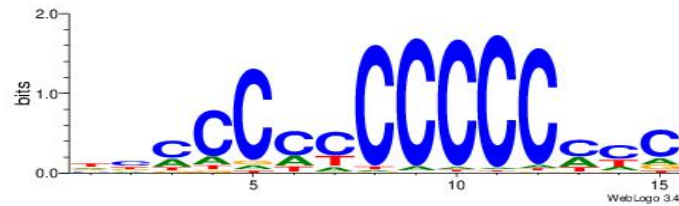


Alignment:

DBCCCCCCCCCMYC  
---CCCRCCCC----

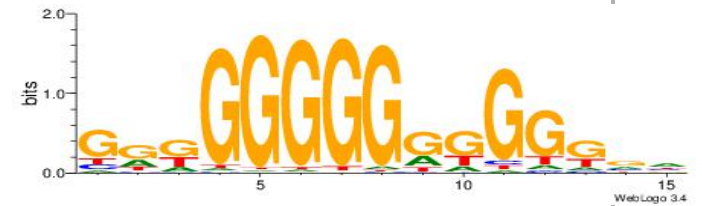
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



---

Motif ID: [UP00043](#)  
Motif name: Bcl6b\_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: 8  
Similarity score: 0.0152681

Alignment:

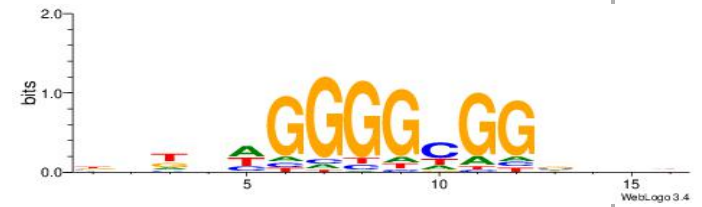
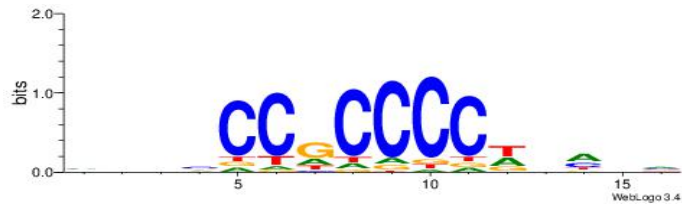
HBBBCCGCCCCWHHHV  
---CCCRCCCC-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

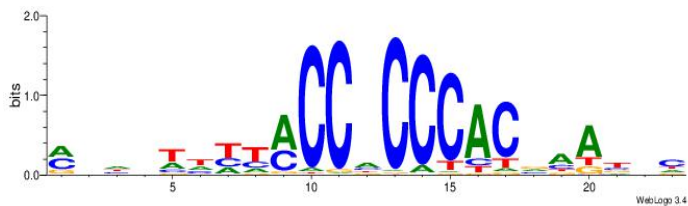
Consensus sequence: BHHHWGGGGCGGBBVH



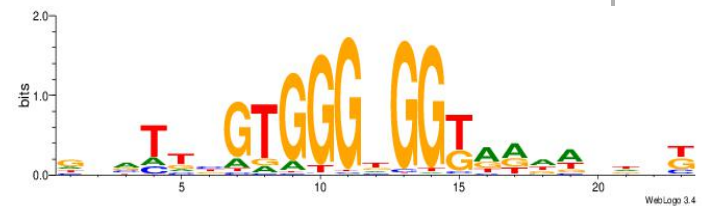
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 8  
 Similarity score: 0.0252184

Alignment:  
 MHHHWHYTMCCCHCCCACVAABVH  
 -----CCCRCCCC-----

Original motif  
 Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif  
 Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



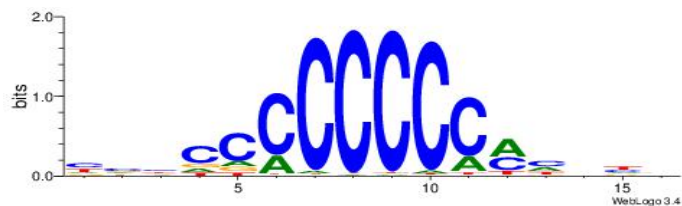
Motif ID: [UP00022](#)

Motif name: Zfp740\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.0258528

Alignment:  
 BHHDYGGGGGGGGBVD  
 -----GGGGMGGG--

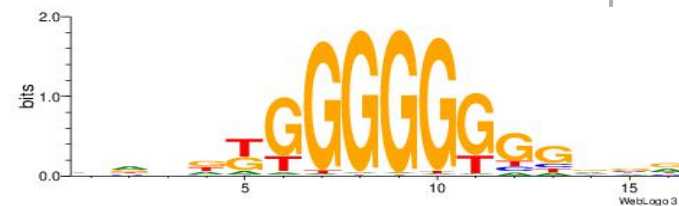
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD




---

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: 6  
 Number of overlap: 8

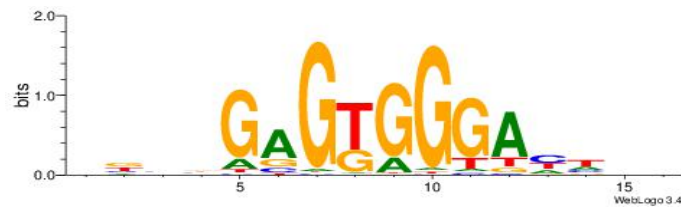
Similarity score: 0.0318239

Alignment:

BHHDTCCTCACTCBDBV  
-----CCCRCCCC---

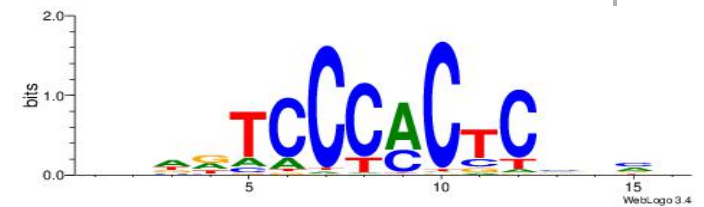
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.0333599

Alignment:

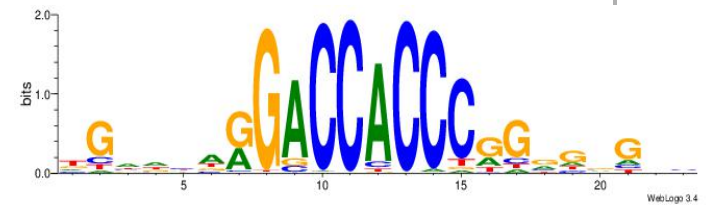
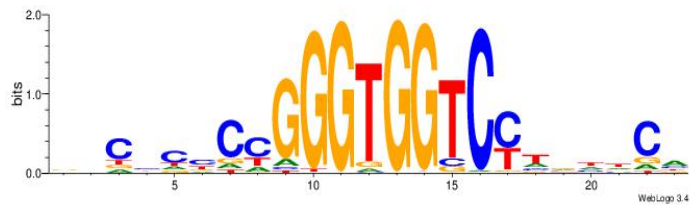
HGDHVHKGACCACCCGGBGBGDB  
-----CCCRCCCC-----

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

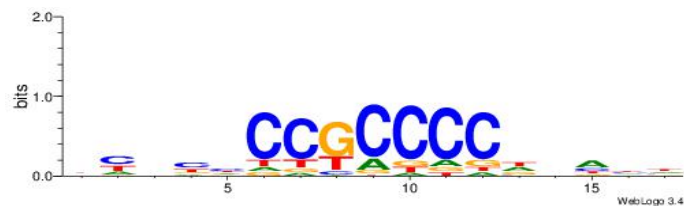
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



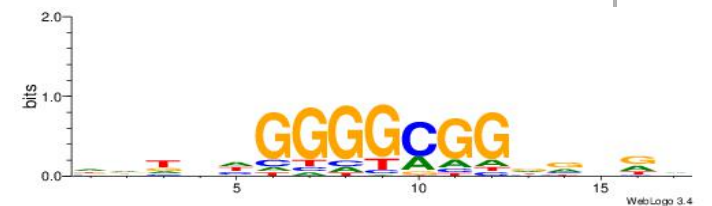
Motif ID: [UP00033](#)  
 Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0336185

Alignment:  
 HHHHDGGGGCGGDBHDV  
 -----GGGGMGG-----

Original motif  
 Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif  
 Consensus sequence: HHHHDGGGGCGGDBHDV



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

Original motif

Consensus sequence: CTGGGA



Reverse complement motif

Consensus sequence: TCCCAG



### Best Matches for Motif ID 24 (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: Original Motif  
Direction: Backward  
Position number: 8  
Number of overlap: 6  
Similarity score: 0

Alignment:

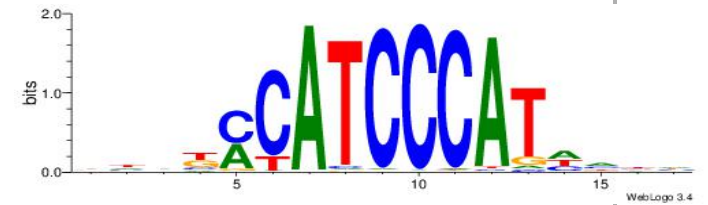
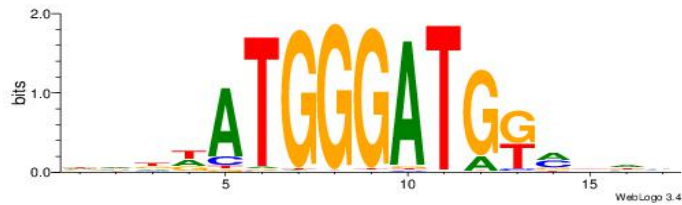
```
DVDDATGGGATGKMDDV  
----CTGGGA-----
```

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

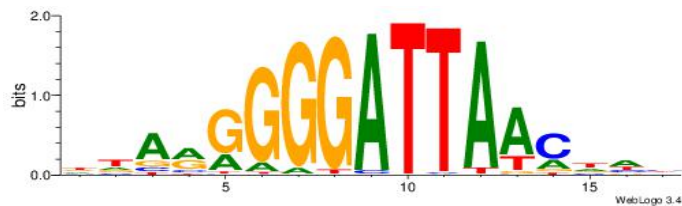


Motif ID: [UP00216](#)  
 Motif name: Obox1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.000600574

Alignment:  
 DHDGTTAATCCCCKTDD  
 -----TCCCAG----

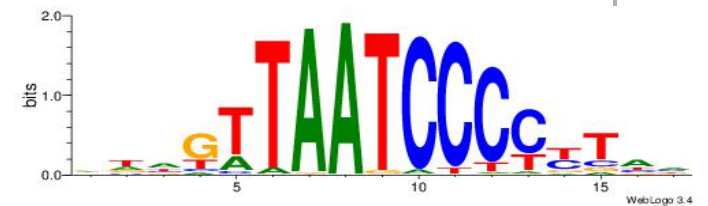
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



Motif ID: [UP00229](#)

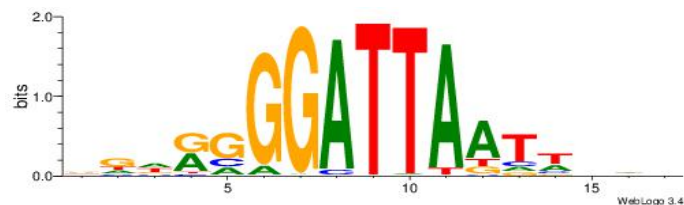
Motif name: Otx1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 10  
 Number of overlap: 6  
 Similarity score: 0.0140775

**Alignment:**

VHHWATTAATCCCMDHH  
 -----TCCCAG--

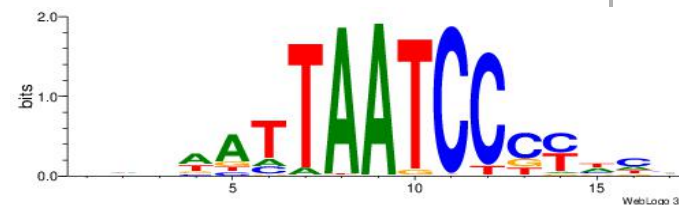
**Original motif**

Consensus sequence: DDRG~~G~~GATTAATW~~H~~H~~B~~



**Reverse complement motif**

Consensus sequence: VHHWATTAATCCCMDHH




---

Motif ID: [UP00160](#)  
 Motif name: Obox3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6



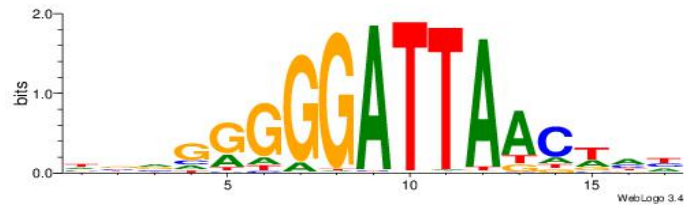
Similarity score: 0.0142192

Alignment:

HHWGTTAATCCCCBBH  
-----TCCCAG----

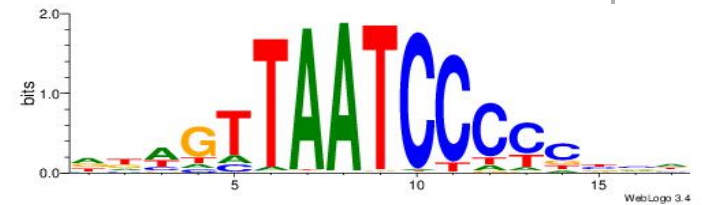
Original motif

Consensus sequence: HBVGGGGGATTAACWHH



Reverse complement motif

Consensus sequence: HHWGTTAATCCCCBBH



Motif ID: [UP00239](#)  
Motif name: Obox2  
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: 6  
Similarity score: 0.0184594

Alignment:

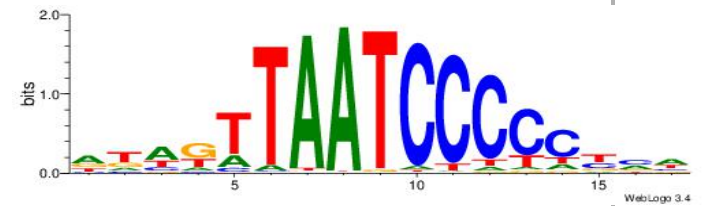
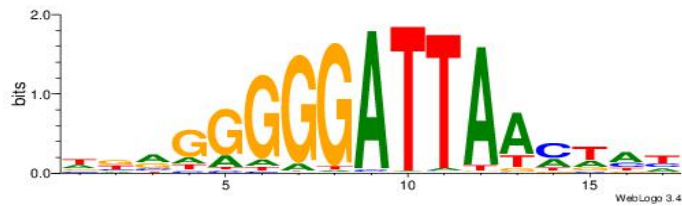
HTARTTAATCCCCCKBD  
-----TCCCAG----

Original motif

Consensus sequence: DBRGGGGGATTAAMTAH

Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



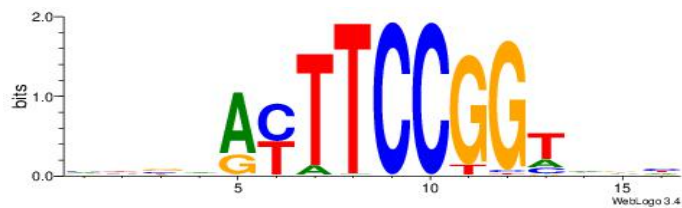
Motif ID: [UP00416](#)  
 Motif name: Fli1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 6  
 Similarity score: 0.018604

**Alignment:**

DHDACCGGAAKTBBVV  
 ----CTGGGA-----

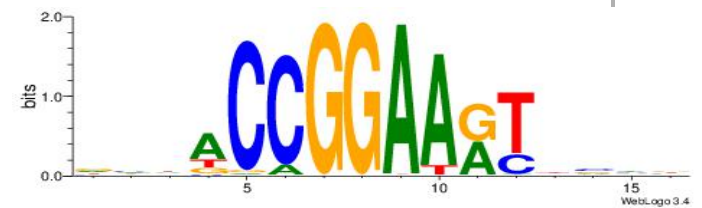
**Original motif**

Consensus sequence: VBBVAYTTCCGGTDDH



**Reverse complement motif**

Consensus sequence: DHDACCGGAAKTBBVV



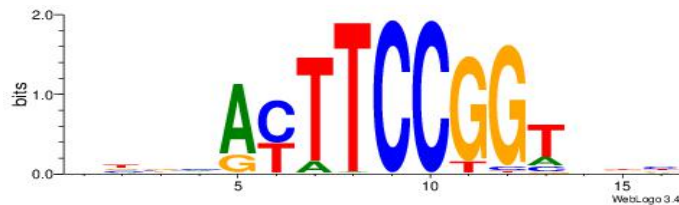
Motif ID: [UP00411](#)  
 Motif name: Erg  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 6  
 Similarity score: 0.0196433

Alignment:

BDDACCGGAAKTVBVB  
 ----CTGGGA-----

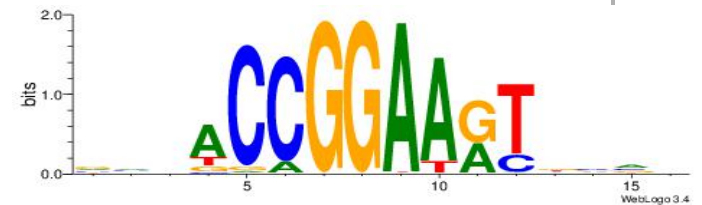
Original motif

Consensus sequence: VBBVAYTTCCGGTDDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB

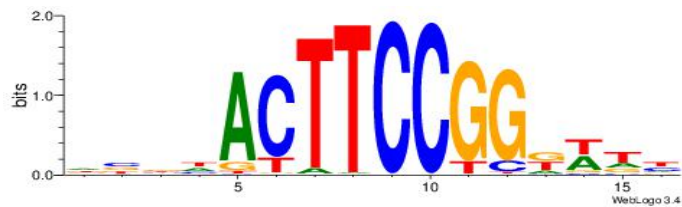


Motif ID: [UP00413](#)  
 Motif name: Elf4  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7

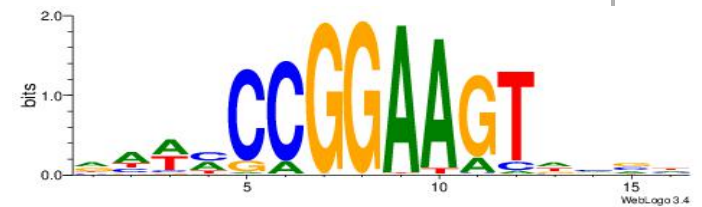
Number of overlap: 6  
Similarity score: 0.0196806

Alignment:  
HAWYCCGGAAGTHBBD  
----CTGGGA-----

Original motif  
Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif  
Consensus sequence: HAWYCCGGAAGTHBBD



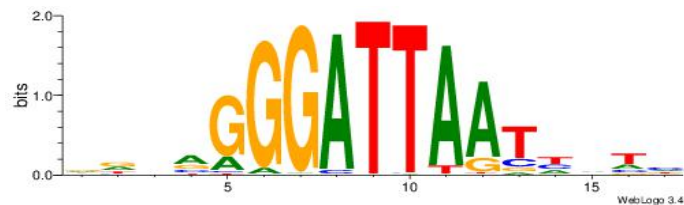
Motif ID: [UP00143](#)  
Motif name: Dobox5  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 10  
Number of overlap: 6  
Similarity score: 0.0199632

Alignment:  
DDHVGGGATTAATHDTH  
--CTGGGA-----

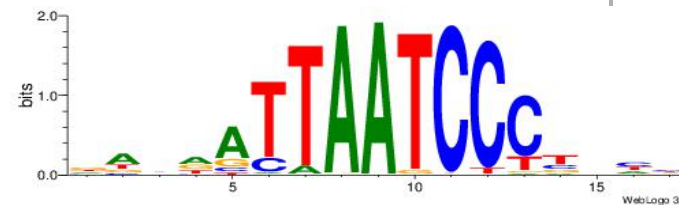
Original motif

Reverse complement motif

Consensus sequence: DDHVGGGATTAATHDTH



Consensus sequence: DADHATTAATCCCBHHH



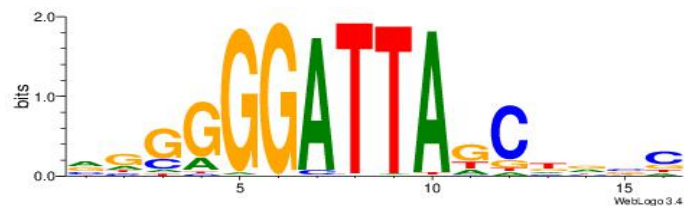
Motif ID: [UP00265](#)  
Motif name: Pitx3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 10  
Number of overlap: 6  
Similarity score: 0.0210625

Alignment:

```
GBHDGCTAATCCCCCB  
-----TCCCAG--
```

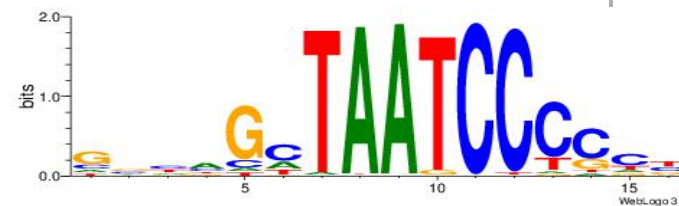
Original motif

Consensus sequence: VGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



**Dataset #: 2**

**Motif ID: 25**

**Motif name: Motif 25**

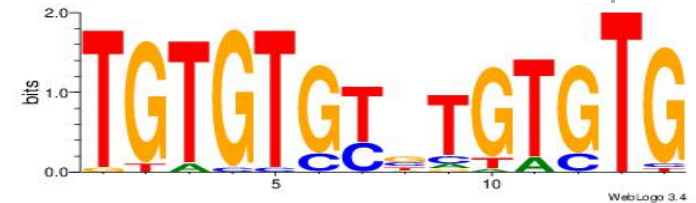
Original motif

Consensus sequence: CACACAVRCACACA



Reverse complement motif

Consensus sequence: TGTGTGKVTGTGTG



### Best Matches for Motif ID 25 (Highest to Lowest)

Motif ID:	<a href="#">UP00540</a>
Motif name:	Gli3_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0487588

Alignment:

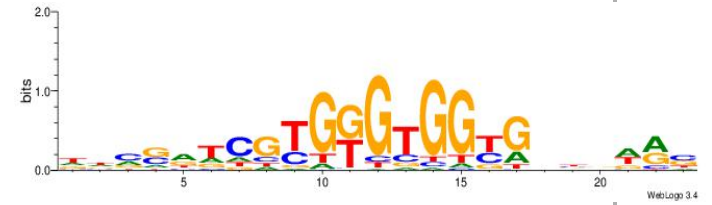
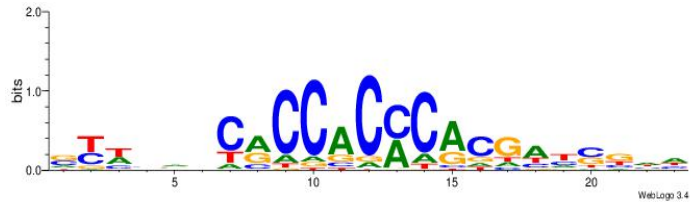
```
VYWVVHCRCCACMCACGAHSBHH  
-CACACAVRCACACA-----
```

Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVWVMV

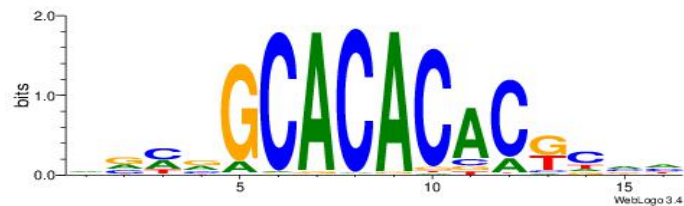


Motif ID: [UP00042](#)  
 Motif name: Gm397\_second  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0496974

Alignment:  
 HBGYGTGTGTGCVRVD  
 -TGTGTGKVTGTGTG-

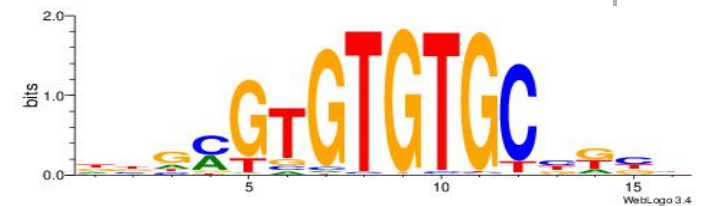
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00538](#)

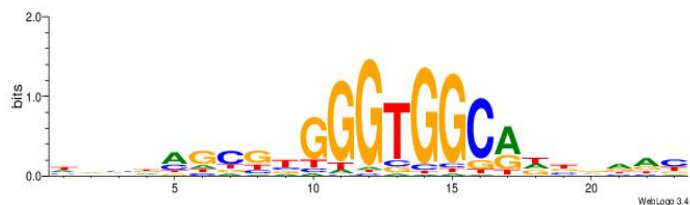
Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 10  
 Number of overlap: 14  
 Similarity score: 0.0503392

**Alignment:**

HVBDAGCGBGGGTGGCRDBDDDB  
 TGTGTGKVTGTGTG-----

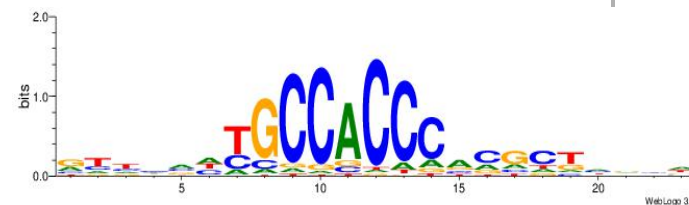
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH




---

Motif ID: [UP00025](#)  
 Motif name: Foxk1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14



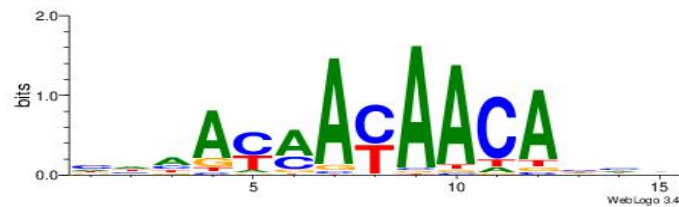
Similarity score: 0.0506792

Alignment:

HDDTGTTKTTKTHHD  
-TGTGTGKVTGTGTG

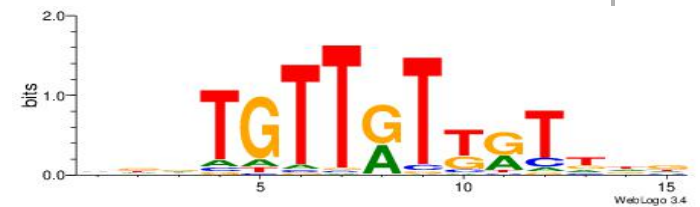
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00036](#)  
Motif name: Myf6\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0516113

Alignment:

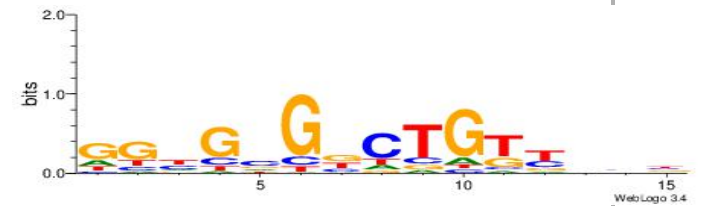
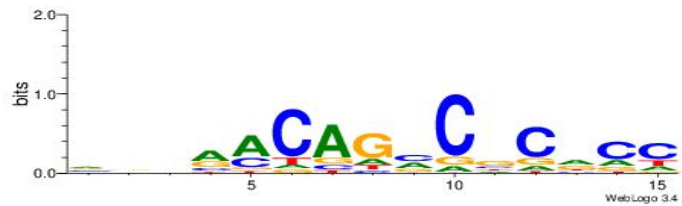
VVVRACAGVCBCDCC  
-CACACAVRCACACA

Original motif

Consensus sequence: VVVRACAGVCBCDCC

Reverse complement motif

Consensus sequence: GGDGBGVCTGTKVVB



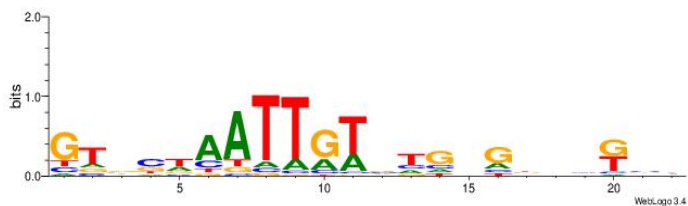
Motif ID: [UP00034](#)  
 Motif name: Sox7\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0523703

**Alignment:**

```
VVYDDDCHCAVACAATTDBVAC
CACACAVRCACACA-----
```

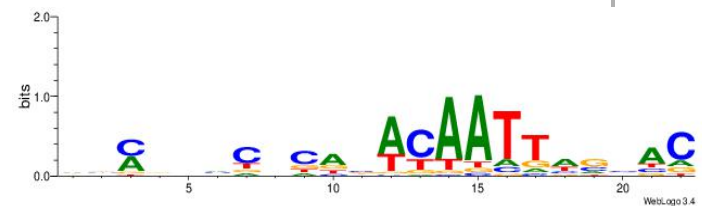
**Original motif**

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



**Reverse complement motif**

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



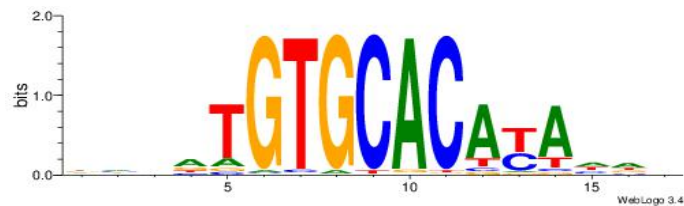
Motif ID: [UP00026](#)  
Motif name: Zscan4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0557355

Alignment:

DHVDTGTGCACAYAHDH  
CACACA VRCACACA---

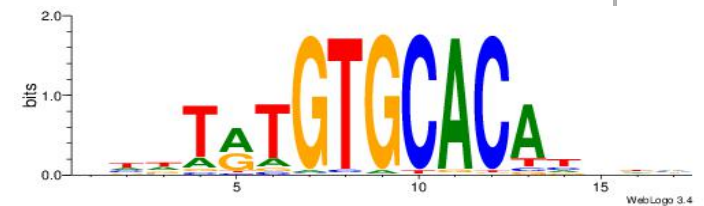
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID: [UP00526](#)  
Motif name: Foxn1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2

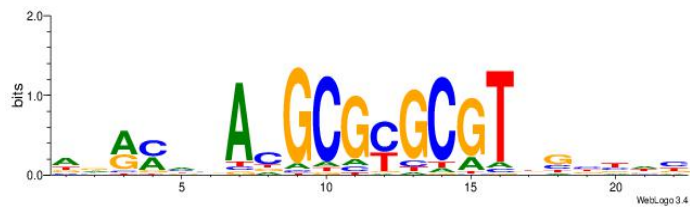
Number of overlap: 14  
Similarity score: 0.0578572

Alignment:

DDRMHBACGCGYGCGTDGBBDB  
-CACACAVRCACACA-----

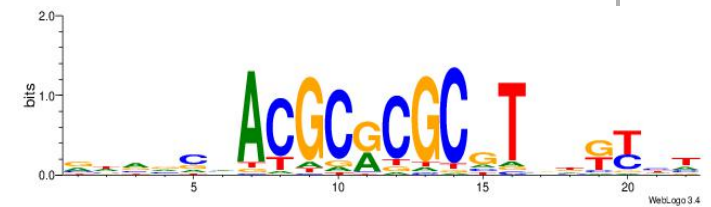
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Motif ID: [UP00400](#)  
Motif name: Zif268  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 14  
Similarity score: 0.0580046

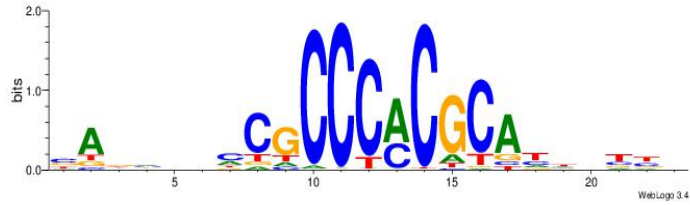
Alignment:

VVVDHHTGCGYGGGCGDHVHHTB  
-----TGTGTGKVTGTGTG---

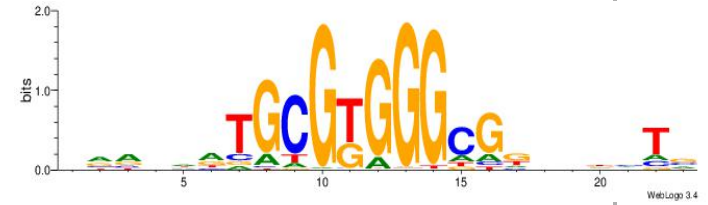
Original motif

Reverse complement motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Consensus sequence: VVDHHTGCGYGGGCGDHHVHTB



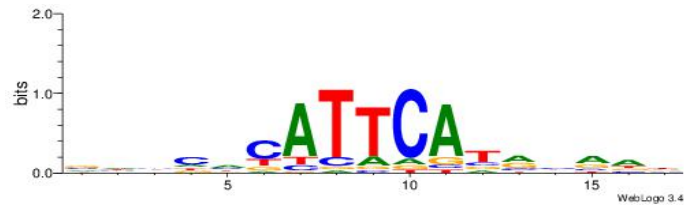
Motif ID: [UP00014](#)  
Motif name: Sox17\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0581238

Alignment:

DDBDKATGAATGHDBHV  
--TGTGTGKVTGTGTG-

Original motif

Consensus sequence: VHBHHCATTCATRHVDD



Reverse complement motif

Consensus sequence: DDBDKATGAATGHDBHV



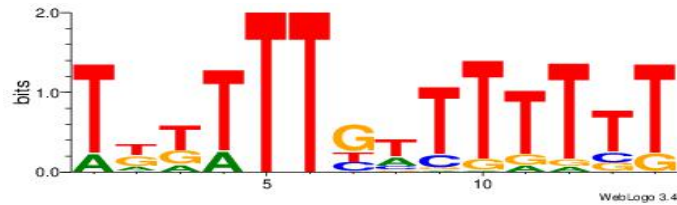
**Dataset #: 2**

**Motif ID: 26**

**Motif name: Motif 26**

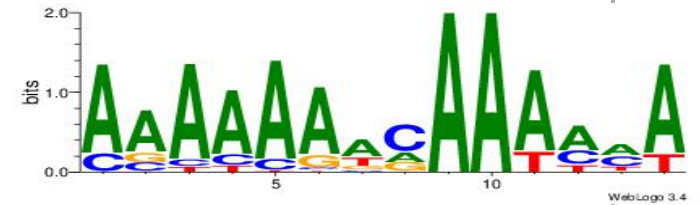
Original motif

Consensus sequence: TKKTTTGTTTTTTT



Reverse complement motif

Consensus sequence: AAAAAACAAARRA



### Best Matches for Motif ID 26 (Highest to Lowest)

Motif ID:	<a href="#">UP00061</a>
Motif name:	Foxl1_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:	14
Similarity score:	0.0319341

Alignment:

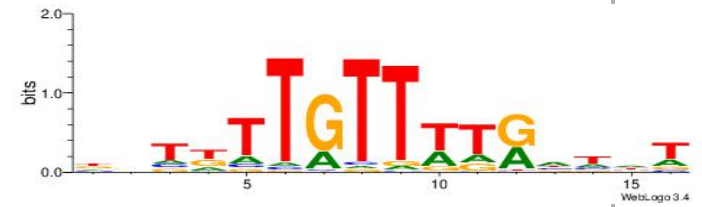
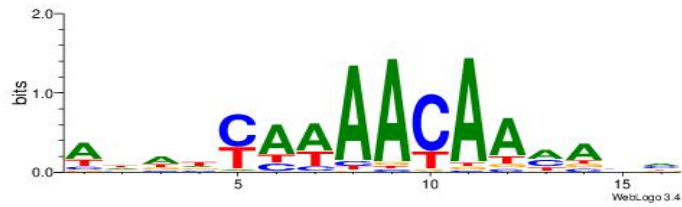
```
HDTYTTGTTWTKDDDT  
TKKTTTGTTTTTTT--
```

Original motif

Consensus sequence: ADDDYAWAACAAMAHH

Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT

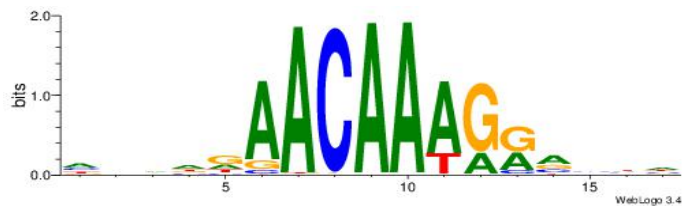


Motif ID: [UP00062](#)  
 Motif name: Sox4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0368361

Alignment:  
 HBDDDAACAAAGRVBHH  
 AAAAAACAAARRA---

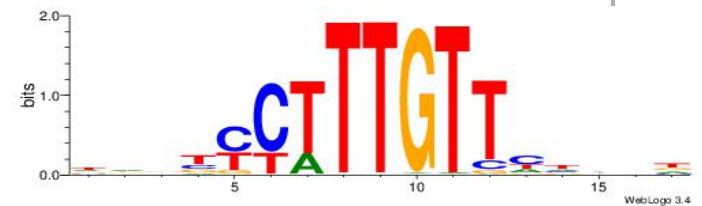
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00030](#)

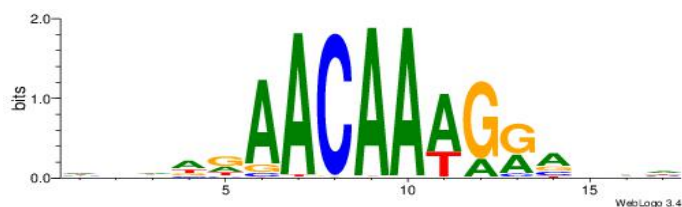
Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0370295

Alignment:

HBDDRAACAAAGRABHH  
 AAAAAACAAARRA---

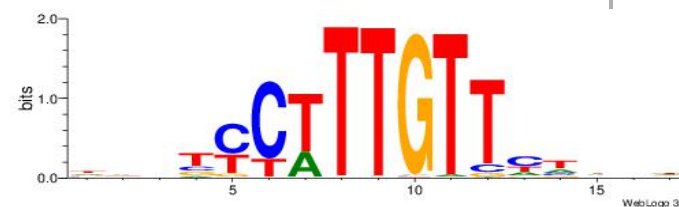
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH




---

Motif ID: [UP00077](#)  
 Motif name: Srf\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14



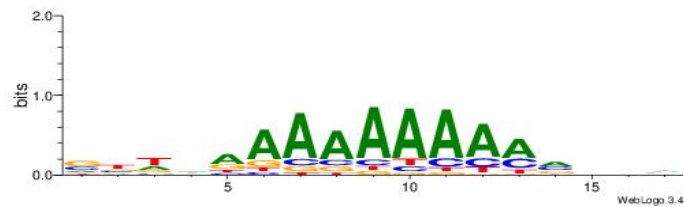
Similarity score: 0.038882

Alignment:

```
HHVBYTTTTTTTTDDVV  
-TKKTTTGTTTTTTT--
```

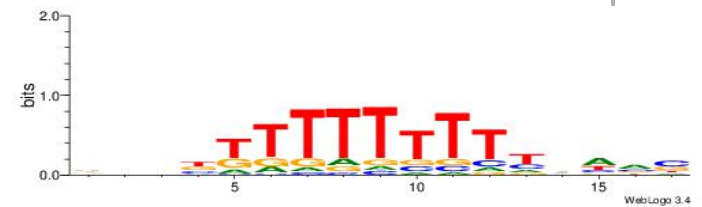
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



Motif ID: [UP00101](#)  
Motif name: Sox12\_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: 14  
Similarity score: 0.0402601

Alignment:

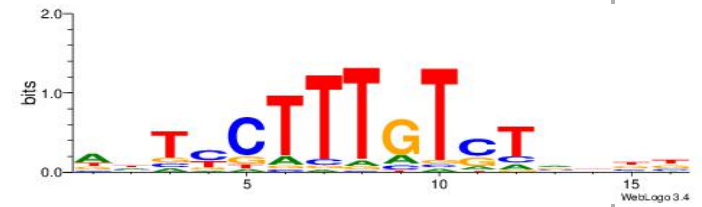
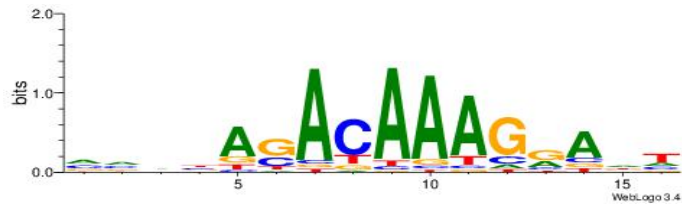
```
HDTMCTTTGTSTVDBB  
AAAAAAACAARRA--
```

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB

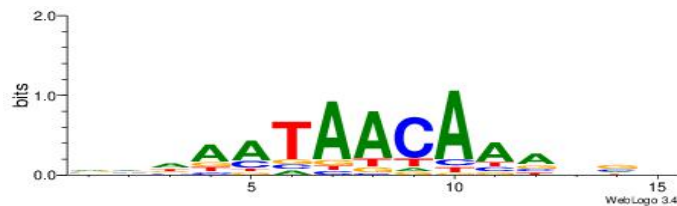


Motif ID: [UP00073](#)  
 Motif name: Foxa2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0402844

Alignment:  
 VVDAATAACAAAVVB  
 -AAAAAACAARRA

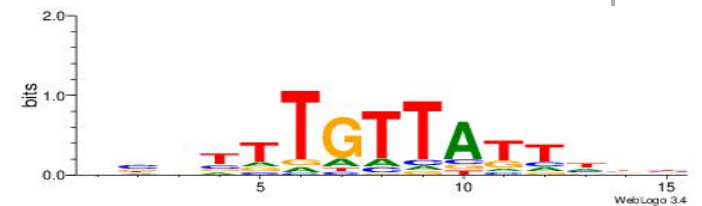
Original motif

Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif

Consensus sequence: BVVTTTGTATTDBB



Motif ID: [UP00034](#)

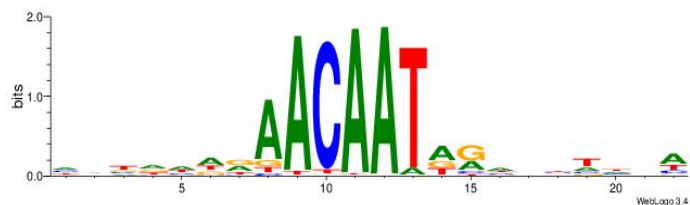
Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 14  
 Similarity score: 0.0409353

Alignment:

HHBDHDDAACAATDRHHHHHBW  
 --AAAAAACAARRA-----

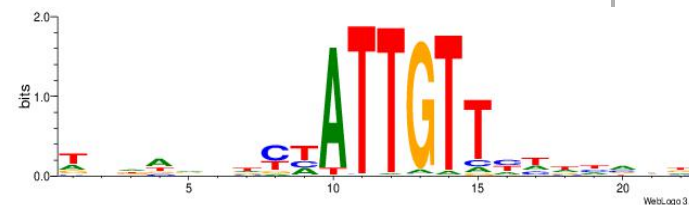
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH




---

Motif ID: [UP00025](#)  
 Motif name: Foxk1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14

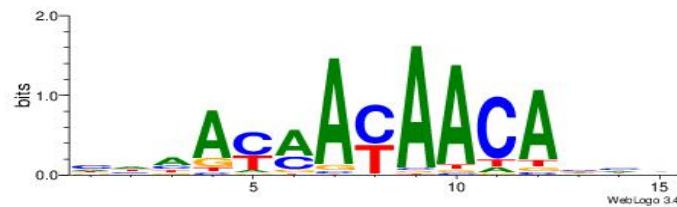
Similarity score: 0.0416172

Alignment:

HDDTGTTKTTKTHHD  
-TKKTTTGTTTTTTT

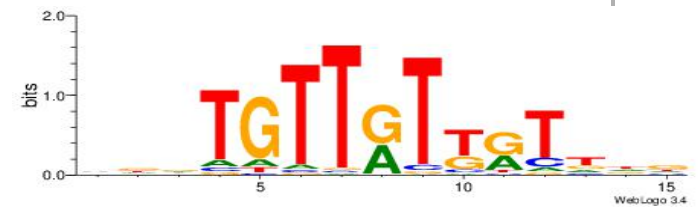
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00039](#)  
Motif name: Foxj3\_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: 0.0419017

Alignment:

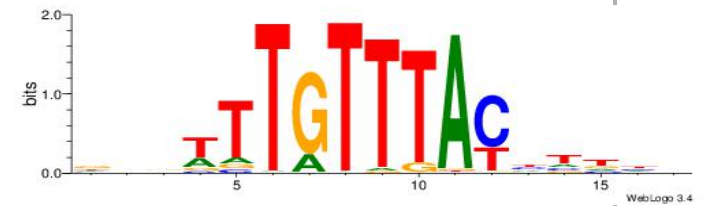
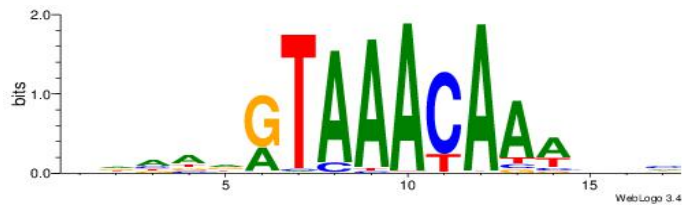
HDHADGTAAACAAAVVH  
---AAAAAACAAARRA

Original motif

Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00073](#)  
 Motif name: Foxa2\_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: 0.0439168

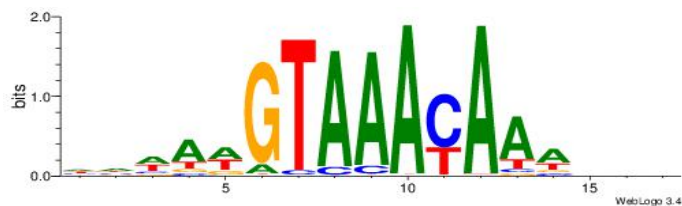
**Alignment:**

```

HHWAWGTAAAYAAAVDB
---AAAAAACAAARRA
  
```

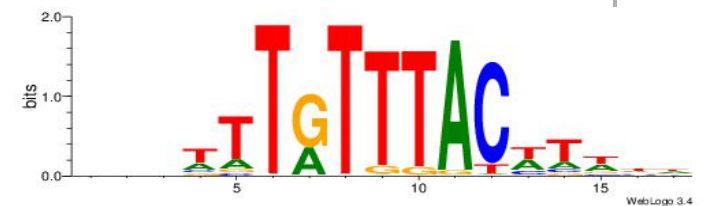
**Original motif**

Consensus sequence: HHWAWGTAAAYAAAVDB



**Reverse complement motif**

Consensus sequence: BDVTTTKTTTACWTWHH



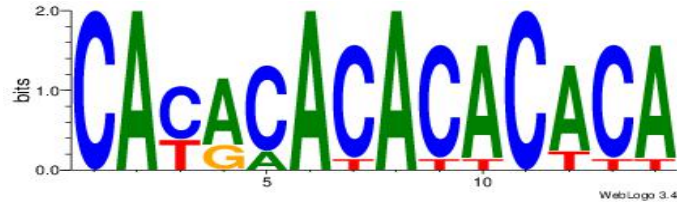
**Dataset #: 2**

**Motif ID: 27**

**Motif name: Motif 27**

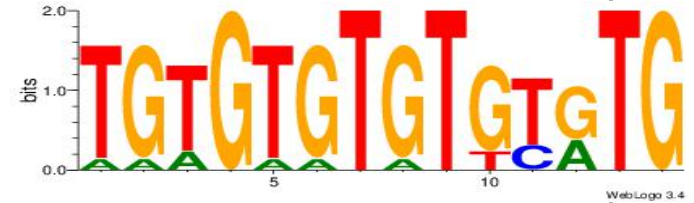
Original motif

Consensus sequence: CAYACACACACA



Reverse complement motif

Consensus sequence: TGTGTGTGTGKTG



### Best Matches for Motif ID 27 (Highest to Lowest)

Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0235042

Alignment:

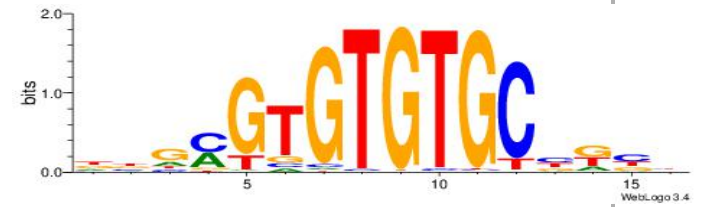
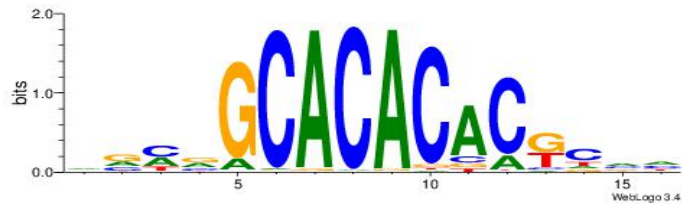
DVMVGCACACACKCVH  
-CAYACACACACA-

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

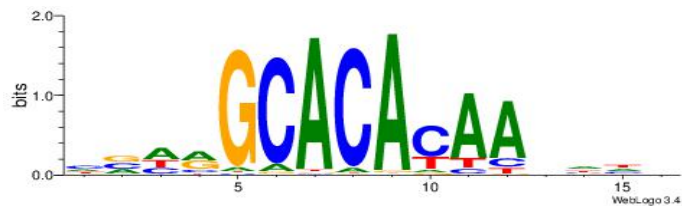


Motif ID: [UP00026](#)  
 Motif name: Zscan4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0372612

Alignment:  
 BHHHTTGTGTGCKHVD  
 -TGTGTGTGTGKTG-

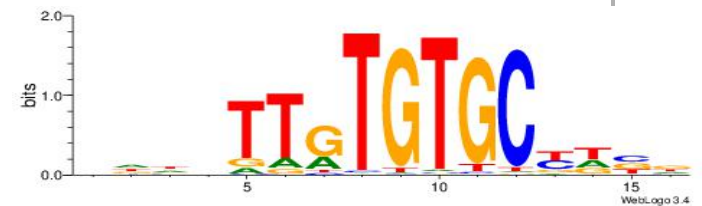
Original motif

Consensus sequence: HVHRGCACACAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



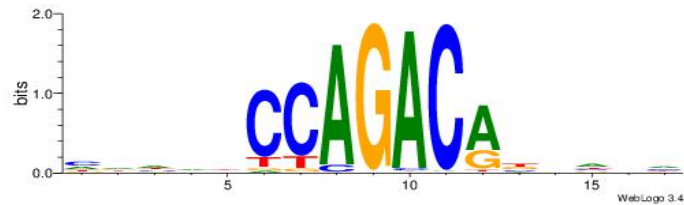
Motif ID: [UP00000](#)

Motif name: Smad3\_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: 14  
 Similarity score: 0.0446373

Alignment:  
 HVHBVTGTCTGGDDHDD  
 ---TGTGTGTGTGKTG

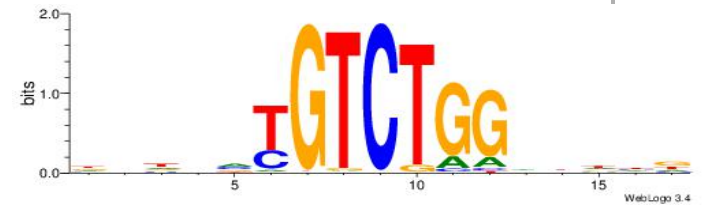
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



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: 4  
 Number of overlap: 14  
 Similarity score: 0.0457169

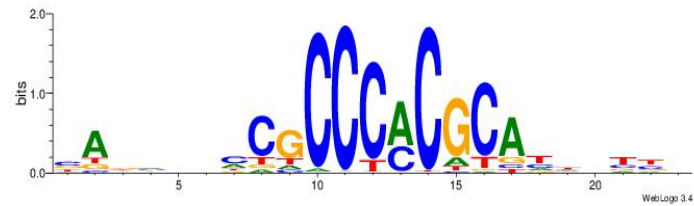


Alignment:

BADHBDHCGCCCMCGCAHHDBBV  
---CAYACACACACACA-----

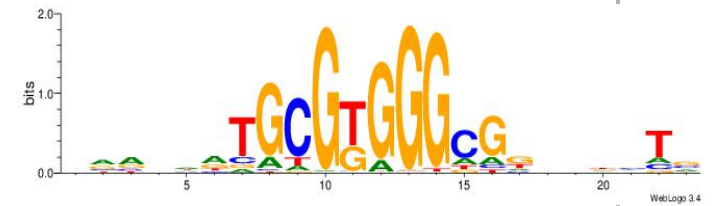
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHSVHTB



---

Motif ID:	<a href="#">UP00034</a>
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:	14
Similarity score:	0.0477221

Alignment:

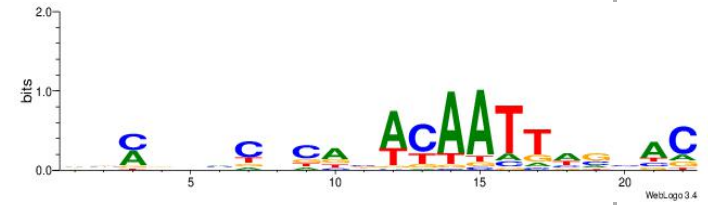
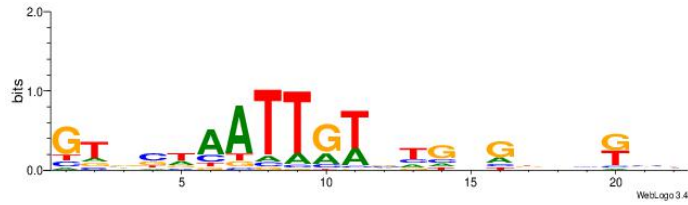
VVYDDDCHCAVACAATTDBVAC  
CAYACACACACACA-----

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

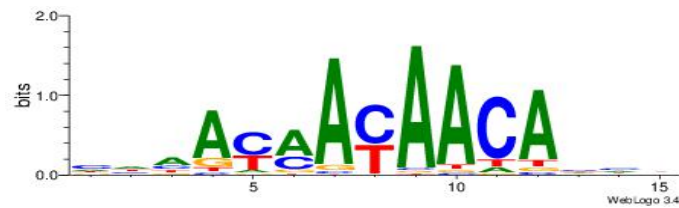


Motif ID: [UP00025](#)  
 Motif name: Foxk1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0485483

Alignment:  
 HDDTGTTKTTKTHHD  
 -TGTGTGTGTGKTG

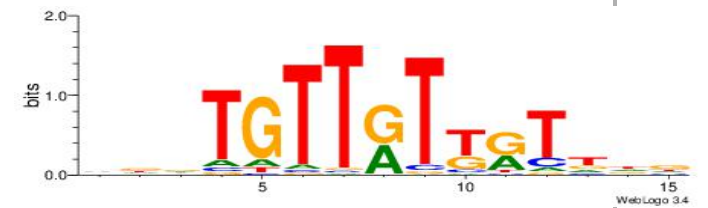
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00041](#)

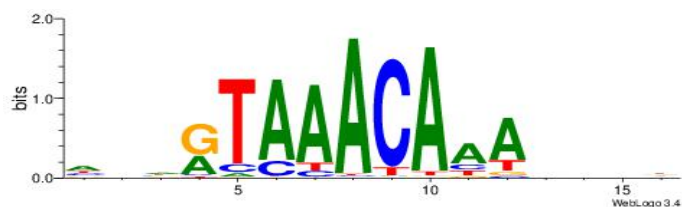
Motif name: Foxj1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0488633

Alignment:

HDHRTAAACAAAHDDD  
 CAYACACACACACA--

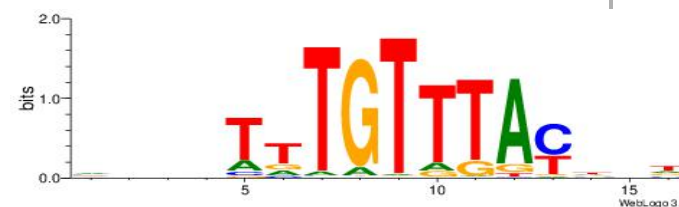
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH




---

Motif ID: [UP00026](#)  
 Motif name: Zscan4\_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

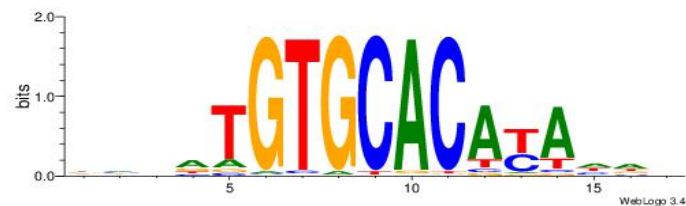
Similarity score: 0.0489596

Alignment:

DHVDTGTGCACAYAHDH  
--CAYACACACACACA-

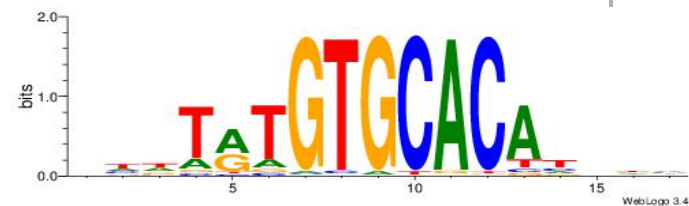
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



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: 10  
Number of overlap: 14  
Similarity score: 0.0501133

Alignment:

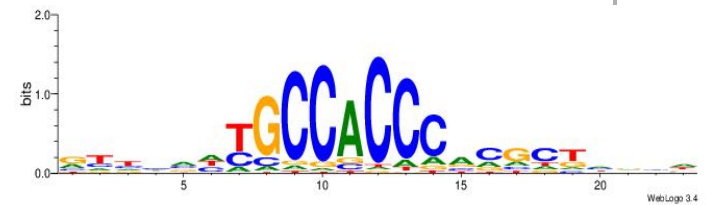
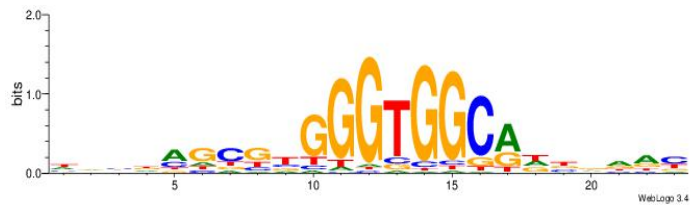
HVBDAGCGBGGGTGGCRDBDDDB  
TGTGTGTGTGKTG-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



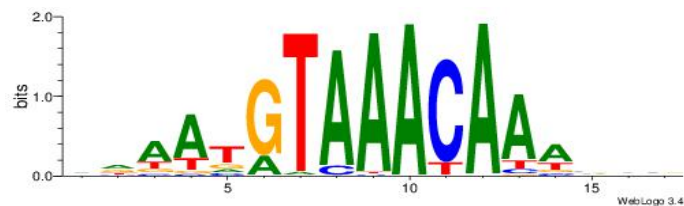
Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0518949

**Alignment:**

DDAATGTAAACAAAVVB  
 --CAYACACACACA--

**Original motif**

Consensus sequence: DDAATGTAAACAAAVVB



**Reverse complement motif**

Consensus sequence: BBVTTTGTTTACATDD



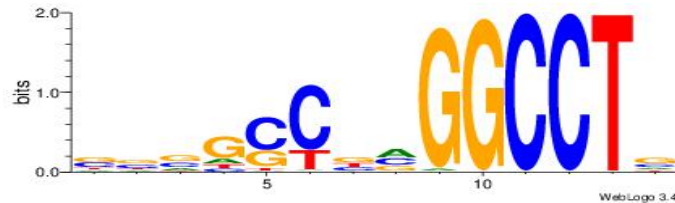
**Dataset #: 3**

**Motif ID: 28**

**Motif name: Zfx**

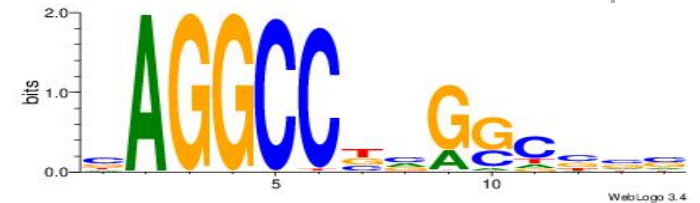
Original motif

Consensus sequence: BBVGCCBVGGCCTV



Reverse complement motif

Consensus sequence: VAGGCCBBGGCVBB



### Best Matches for Motif ID 28 (Highest to Lowest)

Motif ID:	<a href="#">UP00005</a>
Motif name:	Tcfap2a_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0596136

Alignment:

HHRCCBBWGGDCDB

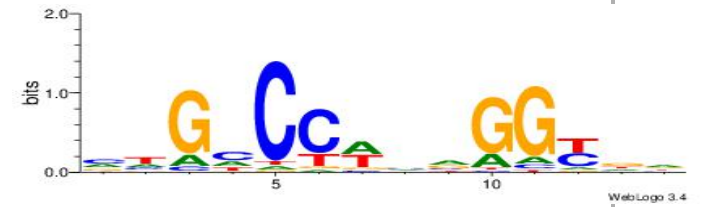
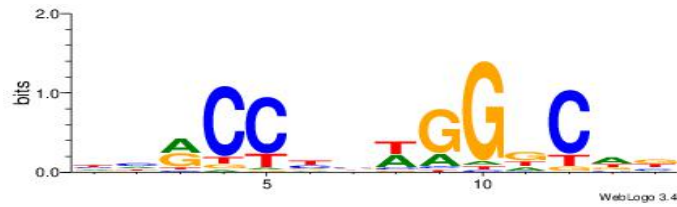
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

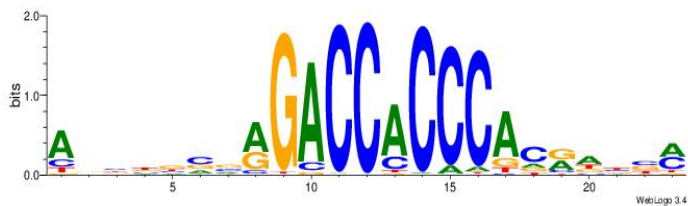
Consensus sequence: BDGHCCWBVGGKDH



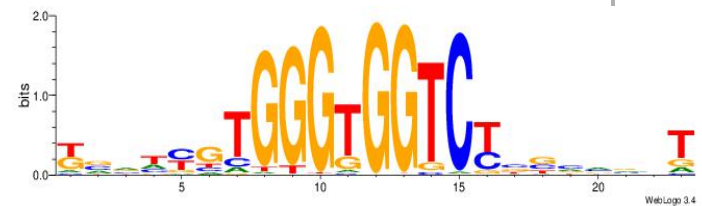
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0603516

Alignment:  
 ABBBBVVRGACCACCCACRDBBM  
 BBVGCCBVGGCCTV-----

Original motif  
 Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif  
 Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

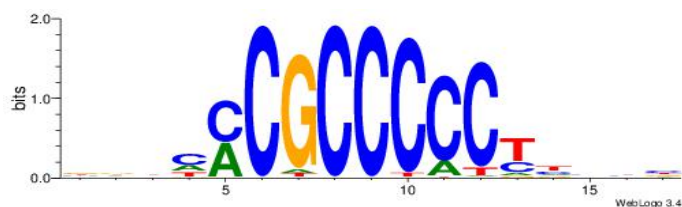
Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0604694

**Alignment:**

BDHHMCGCCCCCTHVBB  
 ---VAGGCCBBGGCVBB

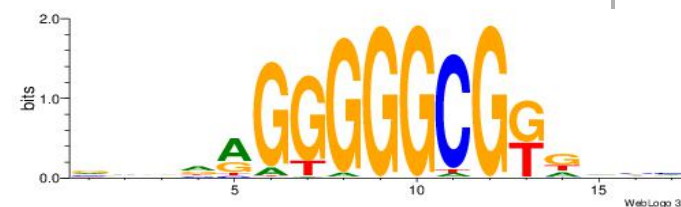
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB




---

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: 3  
 Number of overlap: 14



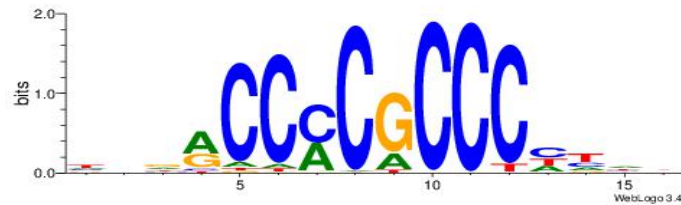
Similarity score: 0.0606067

Alignment:

HBDRCCMCGCCCHHHD  
BBVGCCBVGGCCTV--

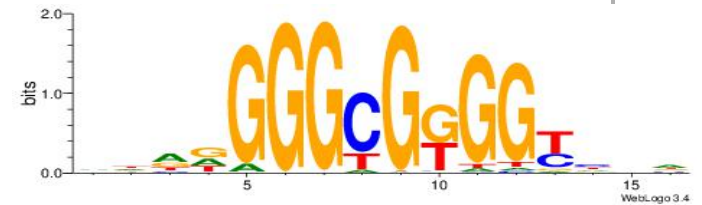
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00539](#)  
Motif name: Gli2\_v015681\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 9  
Number of overlap: 14  
Similarity score: 0.0606878

Alignment:

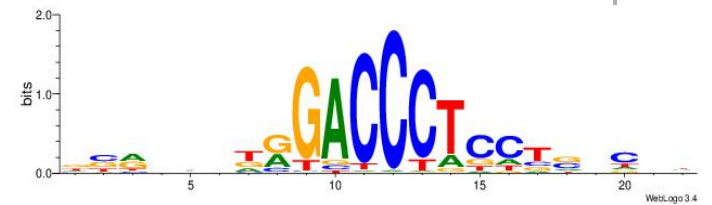
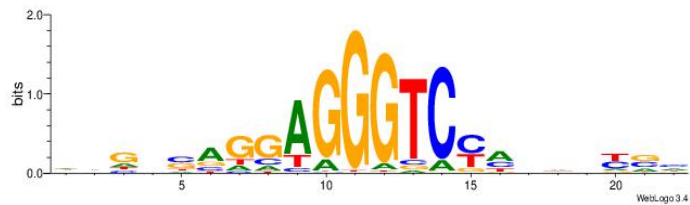
HVGVSAGGAGGGTCYHHHHYVH  
-----VAGGCCBBGGCVBB

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



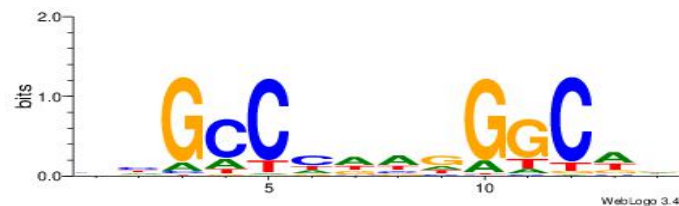
Motif ID: [UP00087](#)  
 Motif name: Tcfap2c\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0608063

**Alignment:**

HWGCCCTDGGGCDB  
 VAGGCCBBGGCVBB

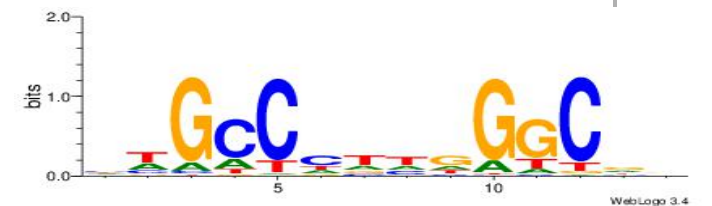
**Original motif**

Consensus sequence: BHGCCCDAGGGCWD



**Reverse complement motif**

Consensus sequence: HWGCCCTDGGGCDB



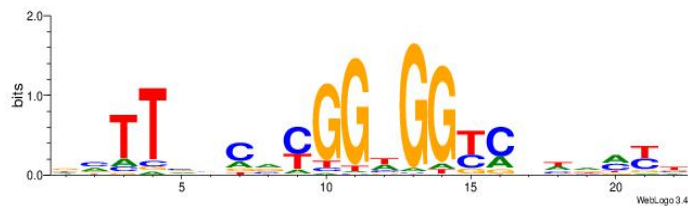
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 14  
 Similarity score: 0.0615001

**Alignment:**

DTTTVVCVYGGHGGYCHHDMYB  
 ----BBVGCCBVGGCCTV----

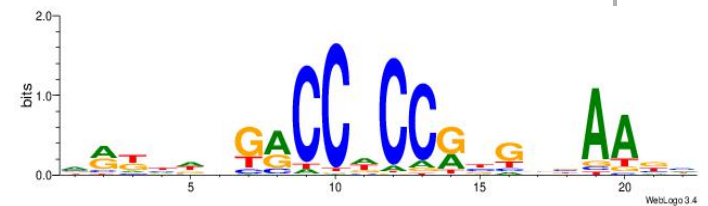
**Original motif**

Consensus sequence: DTTTVVCVYGGHGGYCHHDMYB



**Reverse complement motif**

Consensus sequence: VMYDHDGMCCCHCKKBGVVAHVH



Motif ID: [UP00010](#)  
 Motif name: Tcfap2b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2

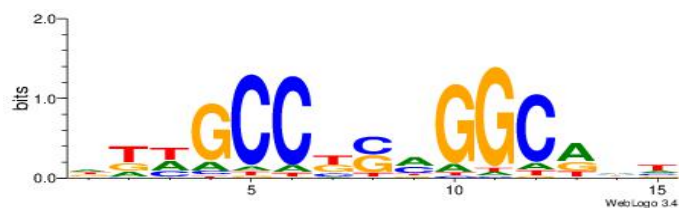
Number of overlap: 14  
Similarity score: 0.0624288

Alignment:

HHKGCCYSRGGCWAD  
-BBVGCCBVGGCCTV

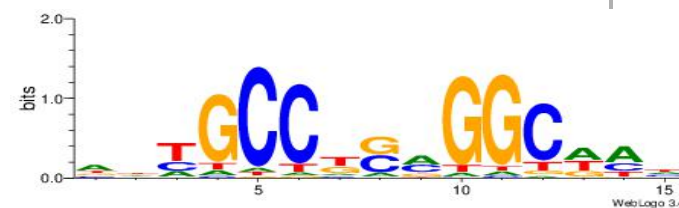
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



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Motif ID: [UP00082](#)  
Motif name: Zfp187\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0627664

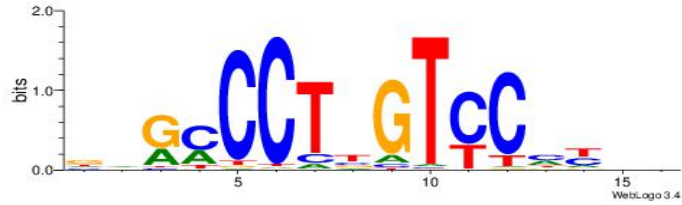
Alignment:

DDGMCCTBGTCCHYHV  
VAGGCCBBGGCVBB--

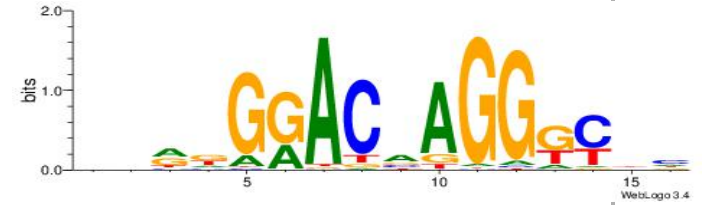
Original motif

Reverse complement motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Consensus sequence: VHMDGGACVAGGRCDH



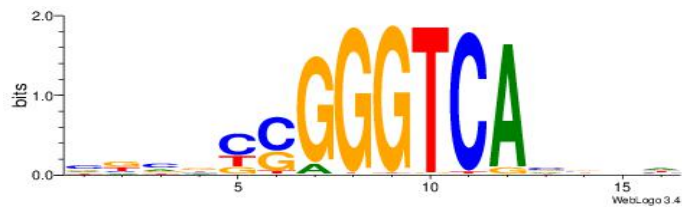
Motif ID: [UP00009](#)  
Motif name: Nr2f2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0636529

Alignment:

```
HVBVTGACCCSGBVBV  
--VAGGCCBBGGCVBB
```

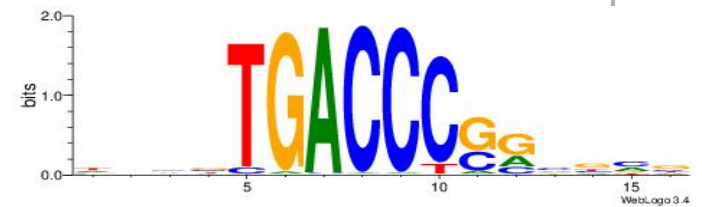
Original motif

Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



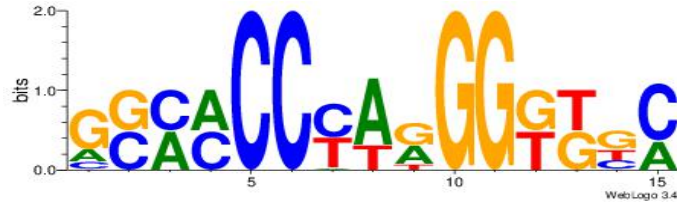
**Dataset #: 3**

**Motif ID: 29**

**Motif name: Zfp423**

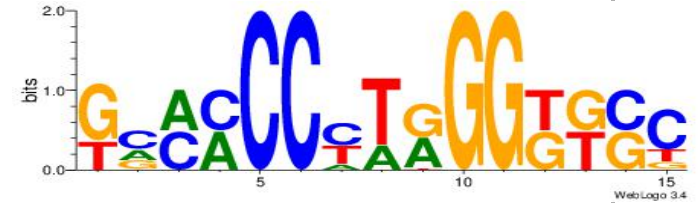
Original motif

Consensus sequence: GSMCCYARGGKKKC



Reverse complement motif

Consensus sequence: GYRYCCMTKGGYRSC



### Best Matches for Motif ID 29 (Highest to Lowest)

Motif ID:	<a href="#">UP00057</a>
Motif name:	Zic2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0178077

Alignment:

BMCCCCGGGGGGGB

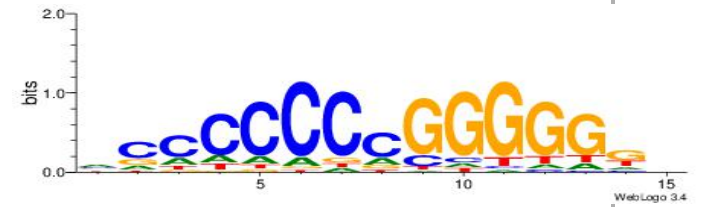
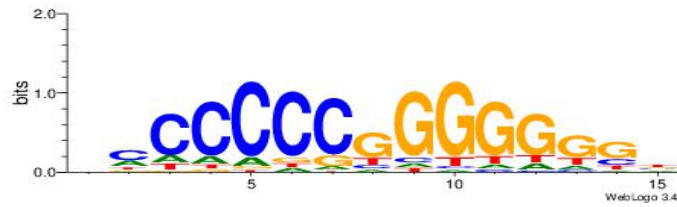
GSMCCYARGGKKKC

Original motif

Consensus sequence: BMCCCCGGGGGGGB

Reverse complement motif

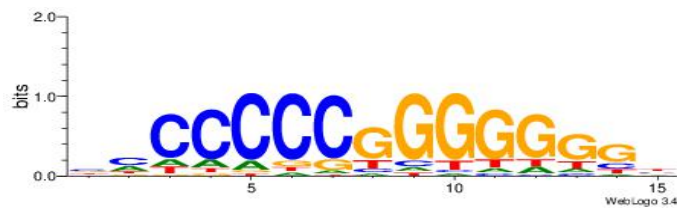
Consensus sequence: VCCCCCGGGGGRB



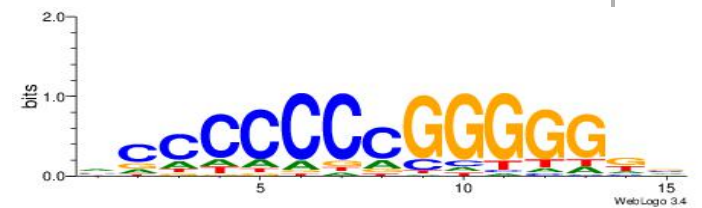
Motif ID: [UP00006](#)  
 Motif name: Zic3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.0213948

Alignment:  
 BMCCCCGGGGGGGB  
 GSMCCYARGGKKKC

Original motif  
 Consensus sequence: BMCCCCGGGGGGGB



Reverse complement motif  
 Consensus sequence: VCCCCCGGGGGRB



Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_secondary

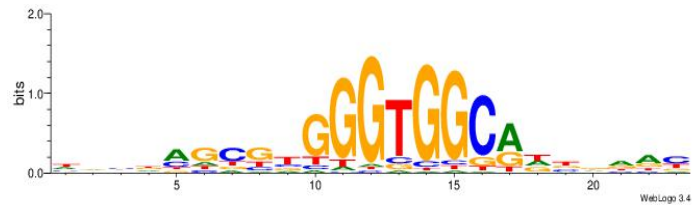
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0255241

**Alignment:**

BDDHVDKGCCACCCVCGCTDBVH  
 -----GSMCCYARGGKKKC-

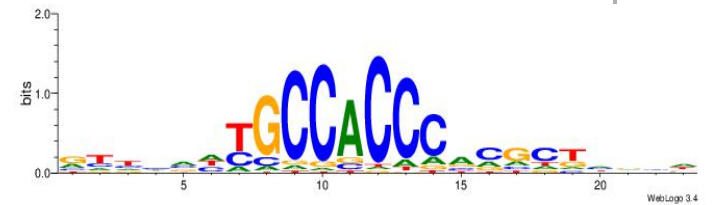
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH




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Motif ID: [UP00087](#)  
 Motif name: Tcfap2c\_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: 15  
 Similarity score: 0.0261399

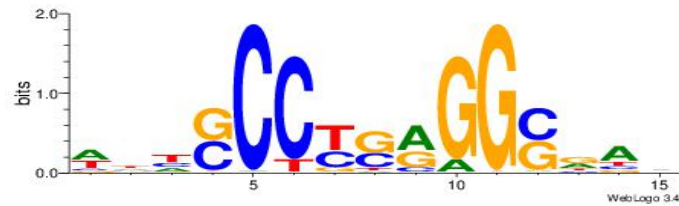


Alignment:

WHHSCCYSRGGSDAD  
GSMCCYARGGKKKC

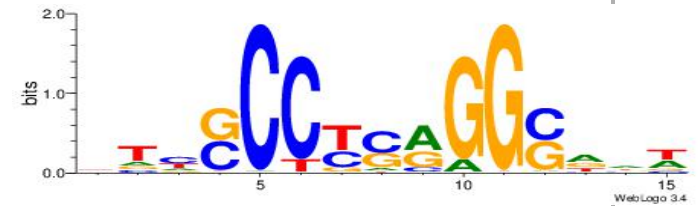
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



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Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_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: 15  
Similarity score: 0.0266201

Alignment:

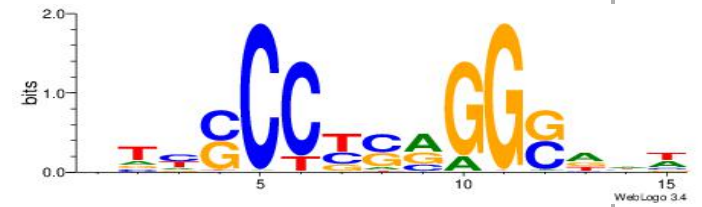
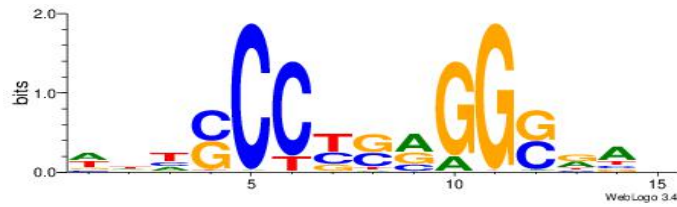
WDHSCCYSRGGSRAD  
GSMCCYARGGKKKC

Original motif

Consensus sequence: WDHSCCYSRGGSRAD

Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 15  
 Similarity score: 0.027503

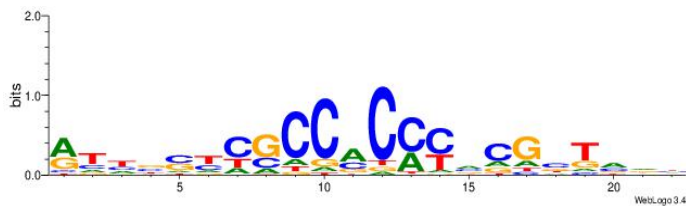
Alignment:

```

RTHBSYCGCCMCMYVCGBTVDH
-----GSMCCYARGGKKKC
  
```

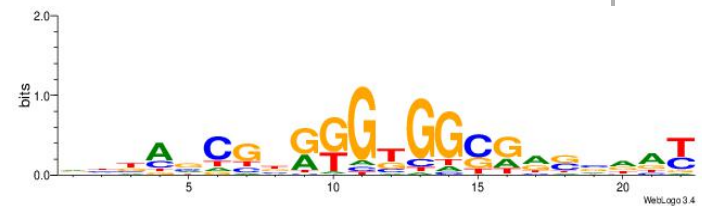
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAk



Motif ID: [UP00220](#)

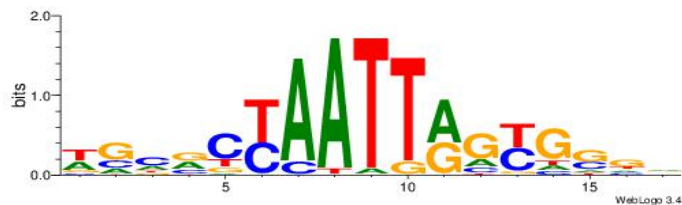
Motif name: Nkx1-1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0276935

**Alignment:**

WGHRCYAATTRGYGSDV  
 -GYRYCCMTKGGYRSC-

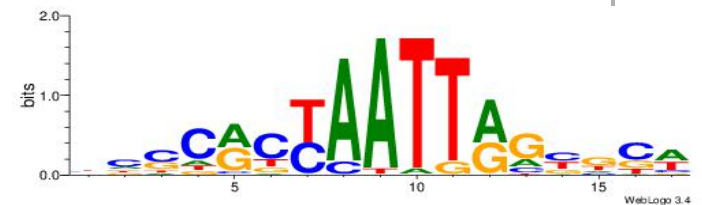
**Original motif**

Consensus sequence: WGHRCYAATTRGYGSDV



**Reverse complement motif**

Consensus sequence: BHSCMCKAATTMGMDCW




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Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 15

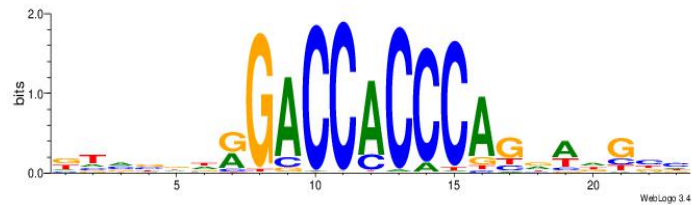
Similarity score: 0.0280481

Alignment:

DTVBD DRGACCACCCAGDWDGBH  
-----GSMCCYARGGKKKC

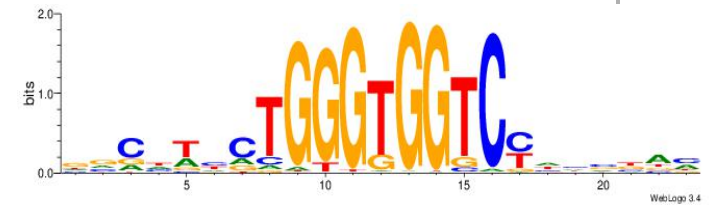
Original motif

Consensus sequence: DTVBD DRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAA



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 9  
Number of overlap: 15  
Similarity score: 0.0288797

Alignment:

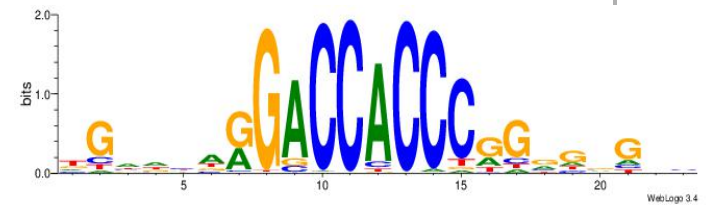
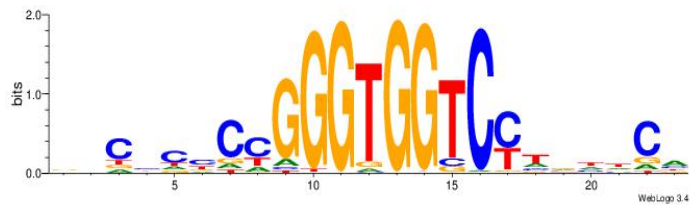
HGDHVHKGACCACCCGGBGBGDB  
-----GSMCCYARGGKKKC

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

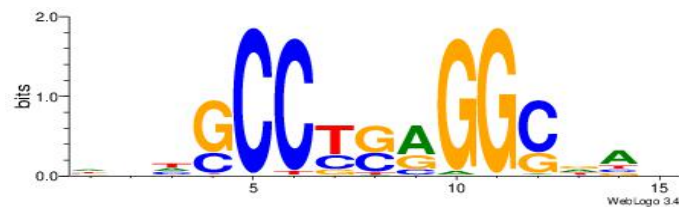


Motif ID: [UP00028](#)  
 Motif name: Tcfap2e\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.029693

Alignment:  
 HHHGCCTSAGGCDAD  
 GSMCCYARGGKKK

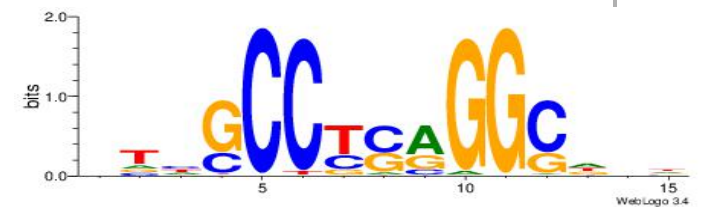
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



**Dataset #: 3**      **Motif ID: 30**      **Motif name: ZEB1**

Original motif

Consensus sequence: CACCTD



Reverse complement motif

Consensus sequence: HAGGTG



### Best Matches for Motif ID 30 (Highest to Lowest)

Motif ID: [UP00068](#)  
Motif name: Eomes\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 6  
Similarity score: 0

Alignment:

VVBVCKACACCTHVBV

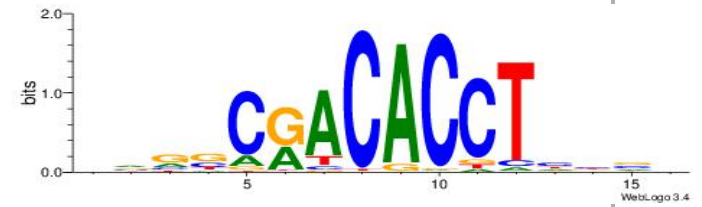
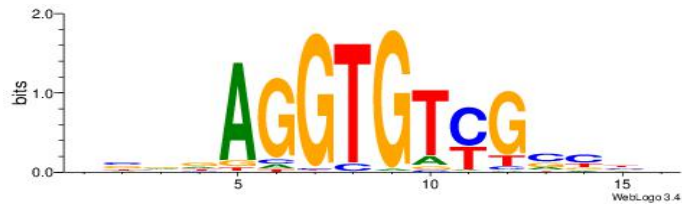
-----CACCTD---

Original motif

Consensus sequence: VBVDAGGTGTYGVBBV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

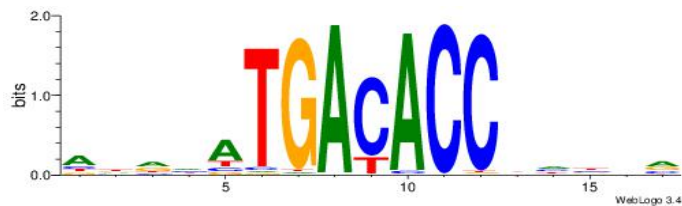


Motif ID: [UP00199](#)  
 Motif name: Six4  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 6  
 Similarity score: 0.00433068

Alignment:  
 BBVHVGGTGTGCATHDDT  
 ---HAGGTG-----

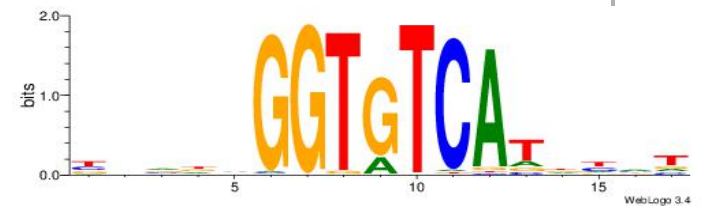
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTGCATHDDT



Motif ID: [UP00068](#)

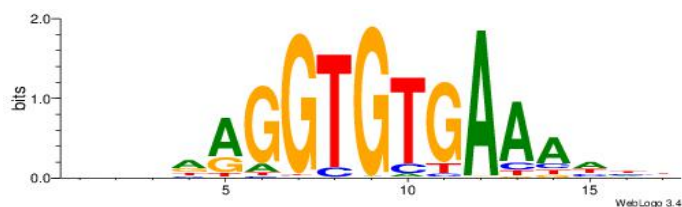
Motif name: Eomes\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.00524081

Alignment:

HHHTTTCACACCTDHBV  
 -----CACCTD----

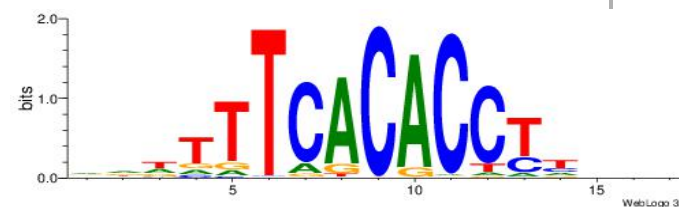
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV




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Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6



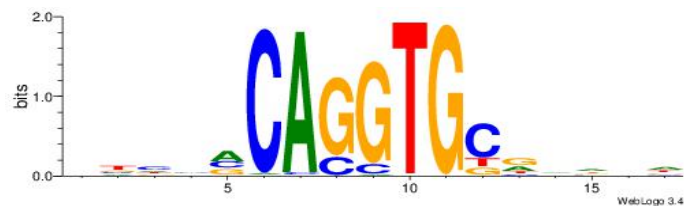
Similarity score: 0.00911301

Alignment:

VBHHVCAGGTGCDVDHD  
-----HAGGTG-----

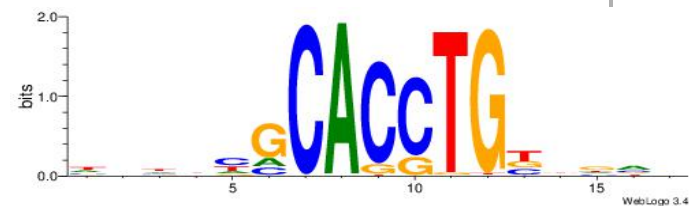
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00047](#)  
Motif name: Zbtb7b\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 6  
Similarity score: 0.0233556

Alignment:

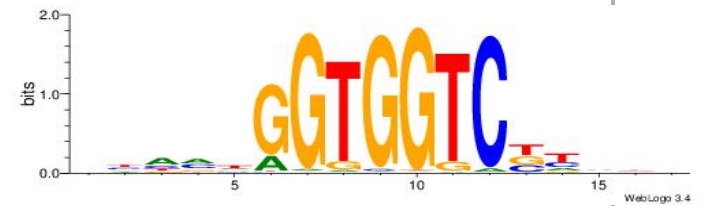
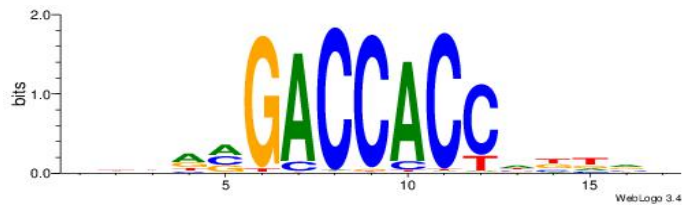
BDDRVGACCACCHBDVB  
-----CACCTD----

Original motif

Consensus sequence: BDDRVGACCACCHBDVB

Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDVB



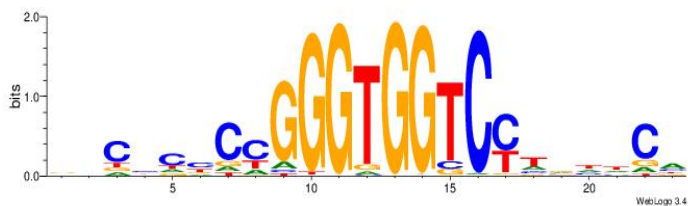
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 11  
 Number of overlap: 6  
 Similarity score: 0.0233928

**Alignment:**

BHCBCBCCGGGTGGTCYHVHDCH  
 -----HAGGTG-----

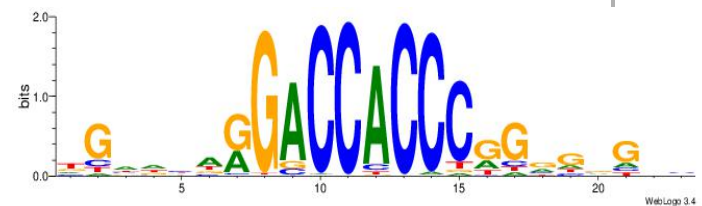
**Original motif**

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



**Reverse complement motif**

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



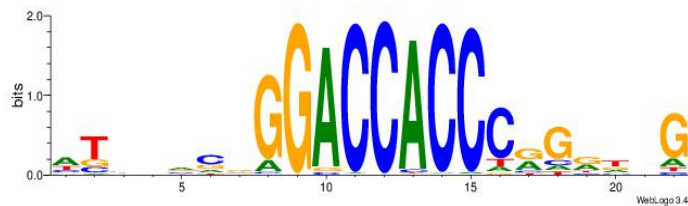
Motif ID: [UP00539](#)  
Motif name: Gli2\_v015681\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 12  
Number of overlap: 6  
Similarity score: 0.0254338

Alignment:

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

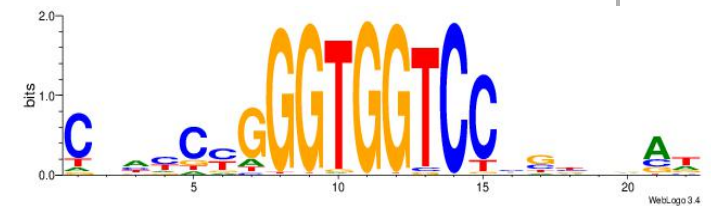
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVVBVAH



---

Motif ID: [UP00540](#)  
Motif name: Gli3\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 12

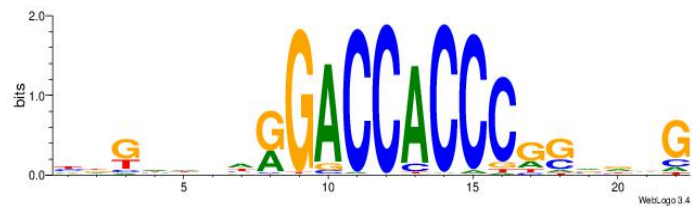
Number of overlap: 6  
Similarity score: 0.0290143

Alignment:

HDGHHBHRGACCACCCGSVDVG  
-----CACCTD-----

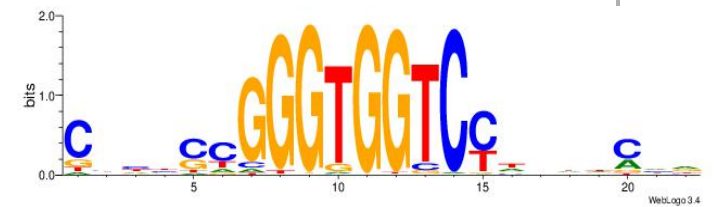
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



---

Motif ID: [UP00036](#)  
Motif name: Myf6\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 6  
Similarity score: 0.0309673

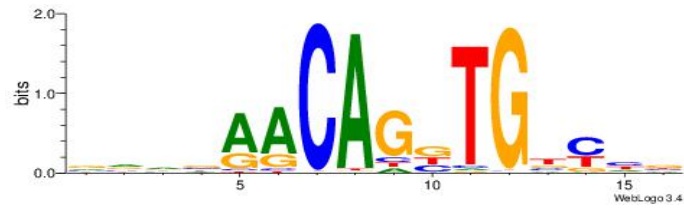
Alignment:

VVDBAACAGBTGBYHB  
-----HAGGTG-----

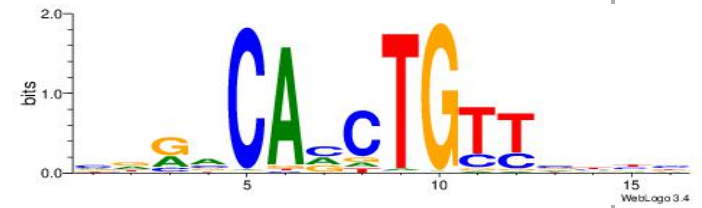
Original motif

Reverse complement motif

Consensus sequence: VVDBAACAGBTGBYHB



Consensus sequence: BDKVCABCTGTTBDBV



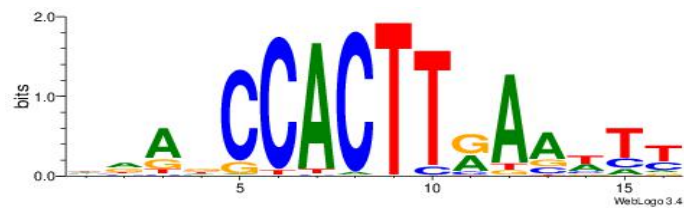
Motif ID: [UP00249](#)  
Motif name: Nkx2-5  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.031502

Alignment:

```
HDADCCACTTTRAAWTT  
-----CACCTD-----
```

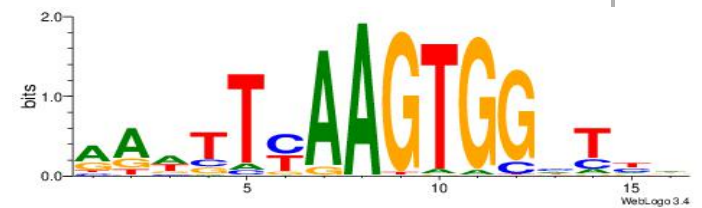
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



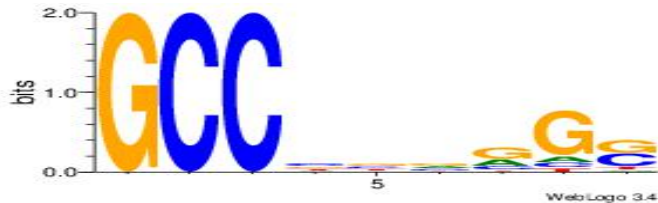
**Dataset #: 3**

**Motif ID: 31**

**Motif name: TFAP2A**

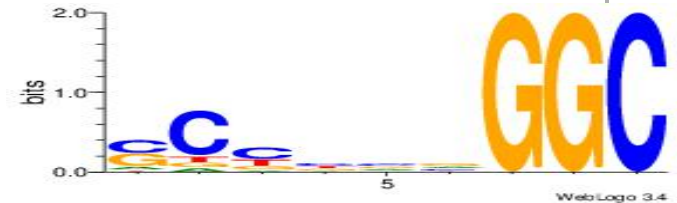
Original motif

Consensus sequence: GCCBBVRGS



Reverse complement motif

Consensus sequence: SCMVBBGGC



### Best Matches for Motif ID 31 (Highest to Lowest)

Motif ID: [UP00010](#)  
Motif name: Tcfap2b\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 9  
Similarity score: 0.0115546

Alignment:

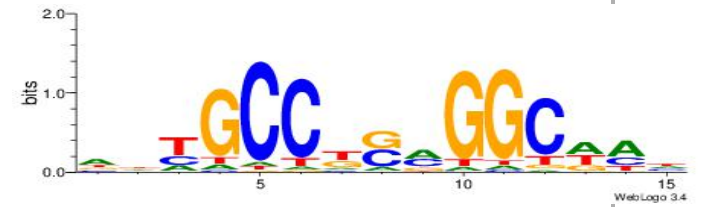
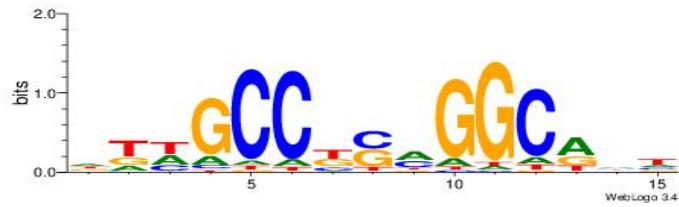
```
HHKGCCYSRGGCWAD  
---GCCBBVRGS---
```

Original motif

Consensus sequence: DTWGCKSMGGCRHH

Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

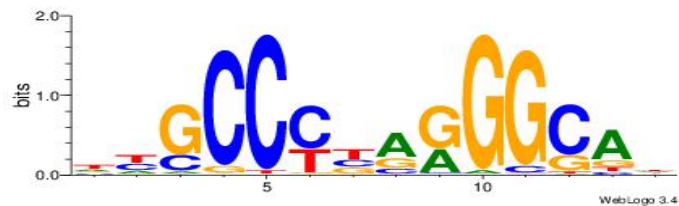


Motif ID: [UP00010](#)  
 Motif name: Tcfap2b\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 9  
 Similarity score: 0.0150447

Alignment:  
 DYGCCYBARGGCAH  
 --GCCBBVRGS---

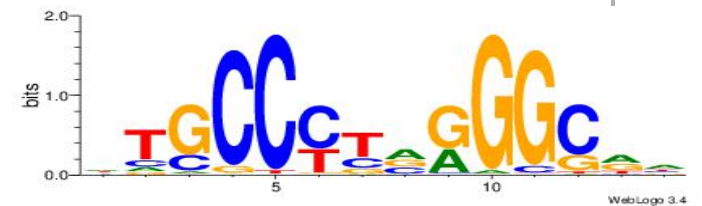
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



Motif ID: [UP00005](#)

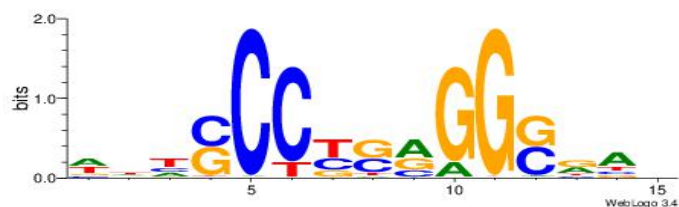
Motif name: Tcfap2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 9  
 Similarity score: 0.0151527

**Alignment:**

WDHSCCYSRGGSRAD  
 ---GCCBBVRGS---

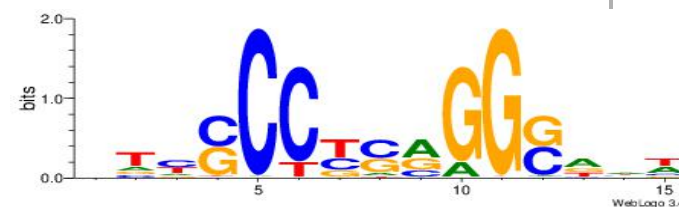
**Original motif**

Consensus sequence: WDHSCCYSRGGSRAD



**Reverse complement motif**

Consensus sequence: DTMSCCKSMGGSHDW




---

Motif ID: [UP00087](#)  
 Motif name: Tcfap2c\_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: 9



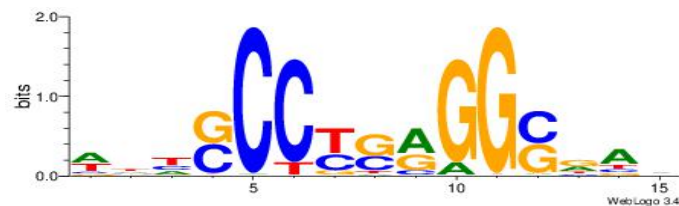
Similarity score: 0.016909

Alignment:

WHHSCCYSRGGSDAD  
---GCCBBVRGS---

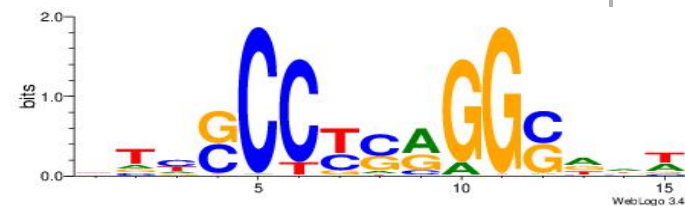
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



Motif ID: [UP00087](#)  
Motif name: Tcfap2c\_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: 9  
Similarity score: 0.0170259

Alignment:

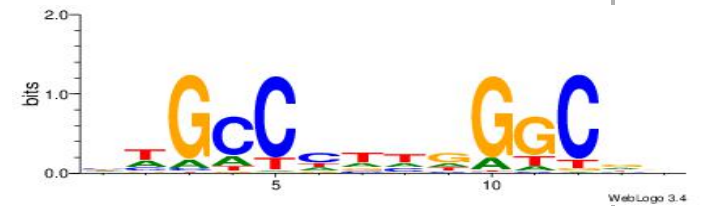
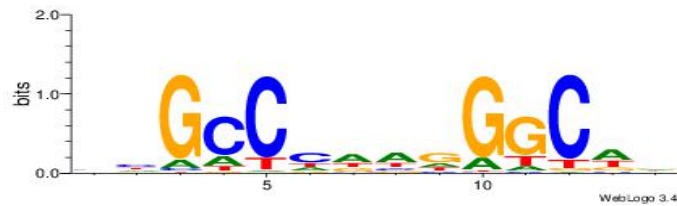
BHGCCCDAGGGCWD  
--GCCBBVRGS---

Original motif

Consensus sequence: BHGCCCDAGGGCWD

Reverse complement motif

Consensus sequence: HWGCCCTDGGGDCB



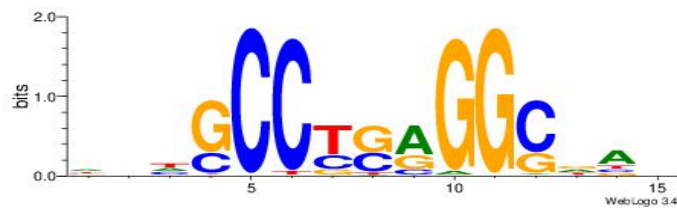
Motif ID: [UP00028](#)  
 Motif name: Tcfap2e\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 9  
 Similarity score: 0.0198854

**Alignment:**

HHHGCCTSAGGCDAD  
 ---GCCBBVRGS---

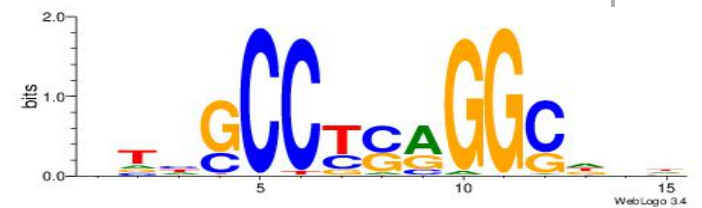
**Original motif**

Consensus sequence: HHHGCCTSAGGCDAD



**Reverse complement motif**

Consensus sequence: DTHGCCTSAGGCHHH



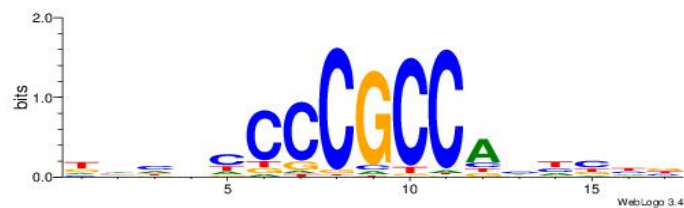
Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 9  
Number of overlap: 9  
Similarity score: 0.0203681

Alignment:

BHBHDTGGCGGGBDHD  
SCMVBBGGC-----

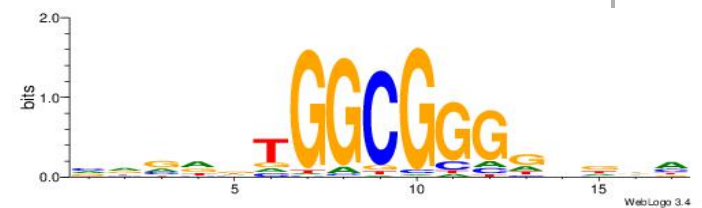
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



---

Motif ID: [UP00003](#)  
Motif name: E2F3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 9

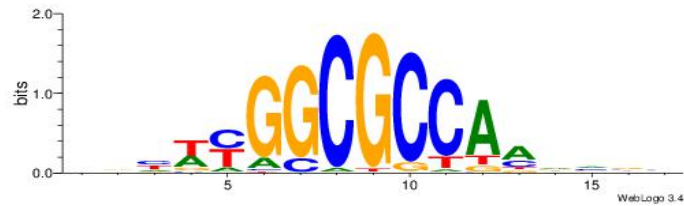
Similarity score: 0.0217064

Alignment:

BBBDYTGGCGCCKWDBD  
SCMVBBGGC-----

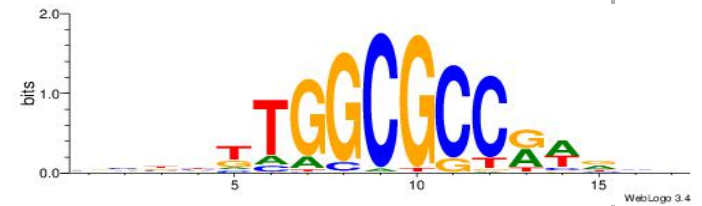
Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD



Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 9  
Similarity score: 0.0234775

Alignment:

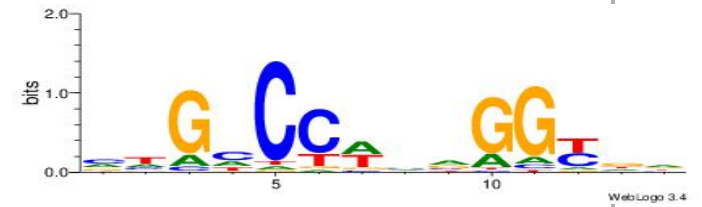
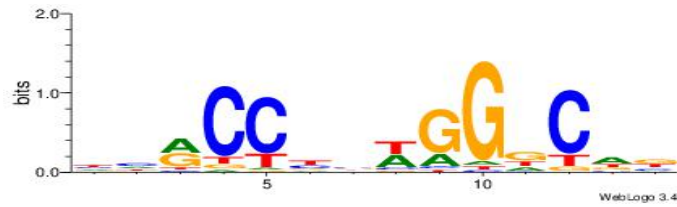
HHRCCBBWGGDCDB  
--GCCBBVRGS---

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

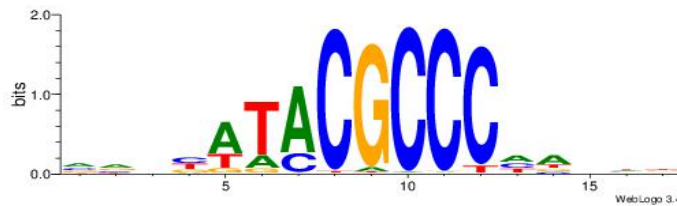
Consensus sequence: BDGHCCWBVGGKDH



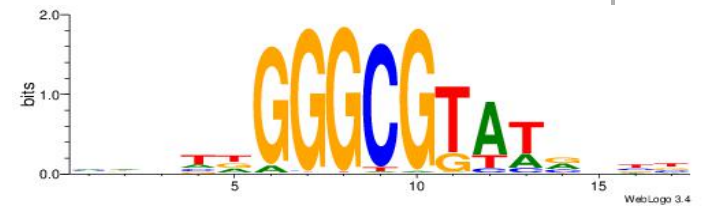
Motif ID: [UP00093](#)  
 Motif name: Klf7\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 9  
 Similarity score: 0.026642

Alignment:  
 VVDBATACGCCCHAHHD  
 -----GCCBBVRGS

Original motif  
 Consensus sequence: VVDBATACGCCCHAHHD



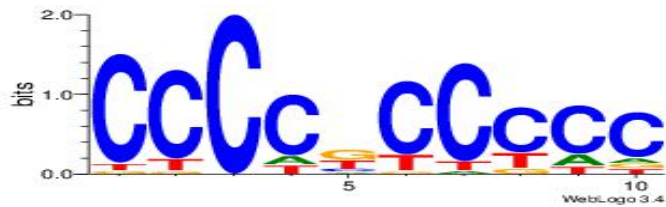
Reverse complement motif  
 Consensus sequence: DHDTHGGGCGTATBHBB



**Dataset #: 3      Motif ID: 32      Motif name: SP1**

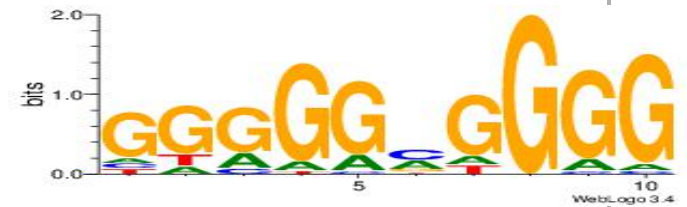
Original motif

Consensus sequence: CCCCKCCCC



Reverse complement motif

Consensus sequence: GGGGYGGGG



### Best Matches for Motif ID 32 (Highest to Lowest)

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: 4  
Number of overlap: 10  
Similarity score: 0.0231018

Alignment:

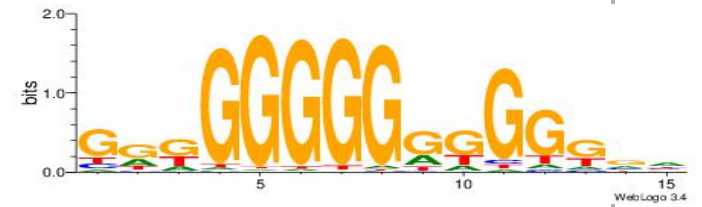
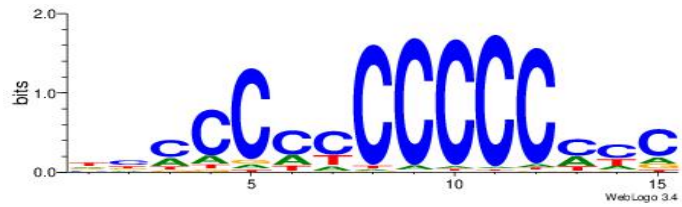
```
DBCCCCCCCCMYC  
--CCCCKCCCC---
```

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

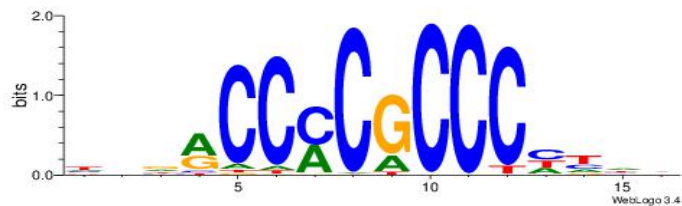


Motif ID: [UP00093](#)  
 Motif name: Klf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0303207

Alignment:  
 HBDRC~~CMCGCC~~HHHD  
 ---CC~~CK~~CCCC--

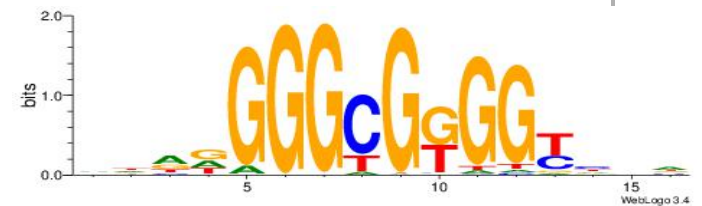
Original motif

Consensus sequence: HBDRC~~CMCGCC~~HHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00033](#)

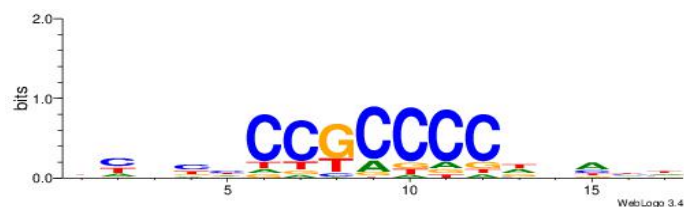
Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0323007

**Alignment:**

HHHHDGGGGCGGDBHDV  
 ----GGGGYGGG----

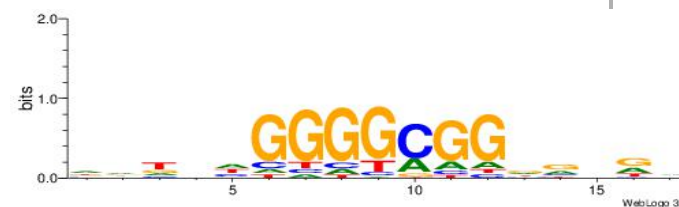
**Original motif**

Consensus sequence: BHHBHCCGCCCCDHHHH



**Reverse complement motif**

Consensus sequence: HHHHDGGGGCGGDBHDV




---

Motif ID: [UP00099](#)  
 Motif name: Ascl2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10



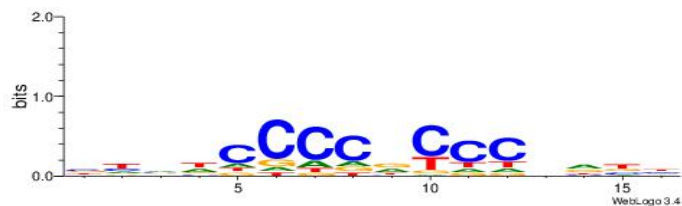
Similarity score: 0.0340973

Alignment:

HVDVGGGHGGGGDBHB  
--GGGGGYGGGG----

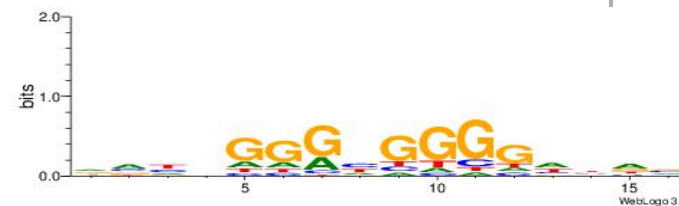
Original motif

Consensus sequence: BHVDCCCCCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)  
Motif name: Bcl6b\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0351051

Alignment:

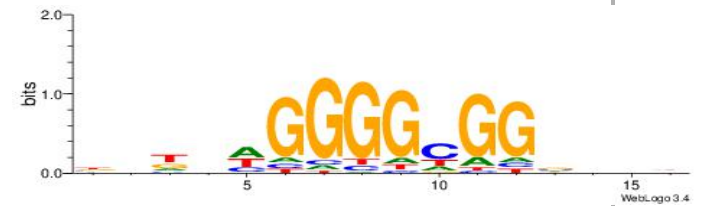
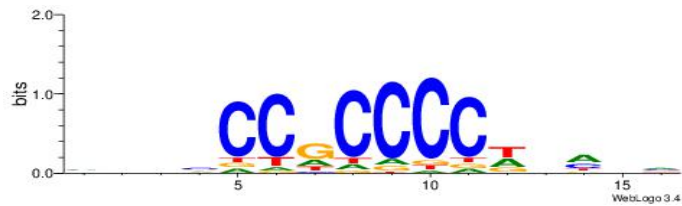
BHHHWGGGGCGBBVH  
----GGGGGYGGGG--

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

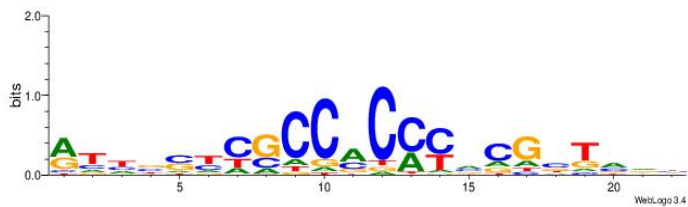
Consensus sequence: BHHHWGGGGCGBBVH



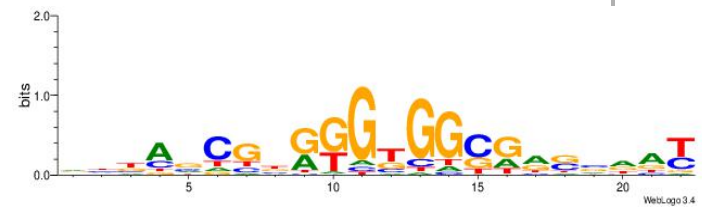
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0390437

Alignment:  
 HDBABCGBKRGYGGCGMSBHA  
 -----GGGGGYGGGG-----

Original motif  
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif  
 Consensus sequence: HDBABCGBKRGYGGCGMSBHA



Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0393358

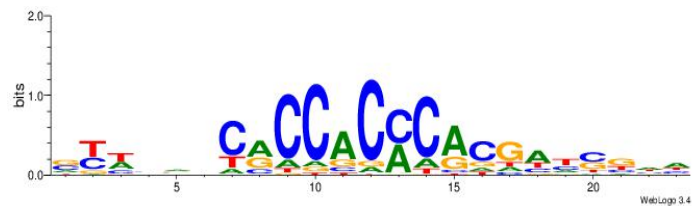
Alignment:

```

HHBSHTCGTGRGTGGKGDBVWMV
-----GGGGGYGGGG-----
  
```

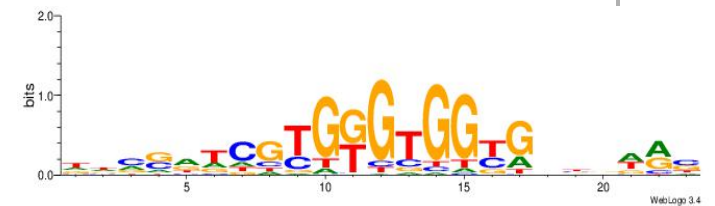
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

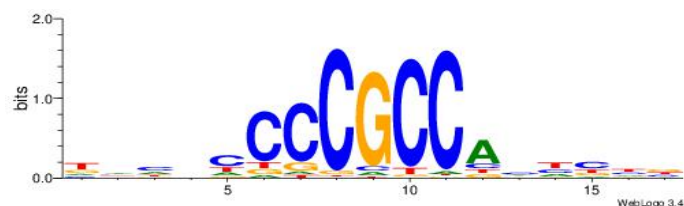


Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4

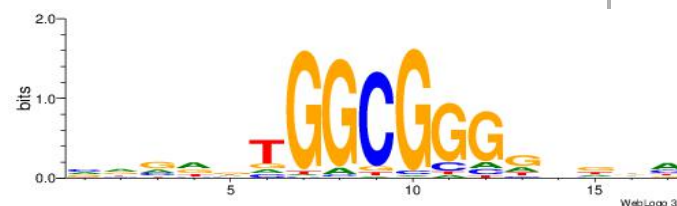
Number of overlap: 10  
Similarity score: 0.0413863

Alignment:  
DHHBCCCCGCCAHHBHB  
----CCCCKCCCC---

Original motif  
Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif  
Consensus sequence: BHBHDTGGCGGGGBDHD



---

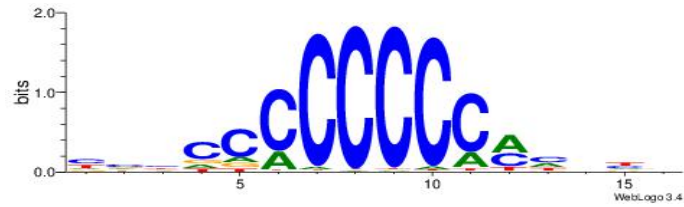
Motif ID: [UP00022](#)  
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0418947

Alignment:  
HVBCCCCCCCCMHHHB  
---CCCCKCCCC---

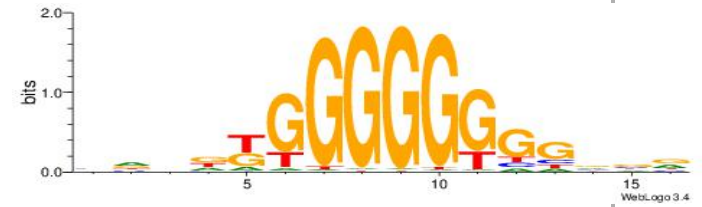
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGBVD



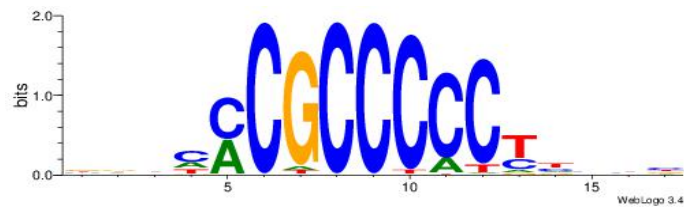
Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0420708

Alignment:

BDHHMCGCCCCCTHVBB  
--CCCCKCCCC-----

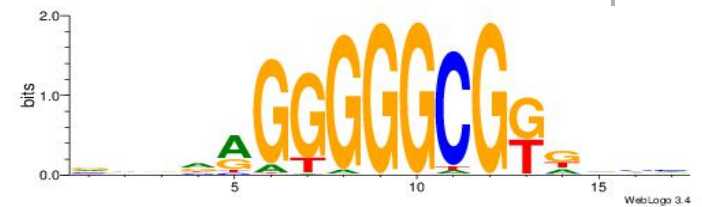
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



**Dataset #: 3**

**Motif ID: 33**

**Motif name: RXRAVDR**

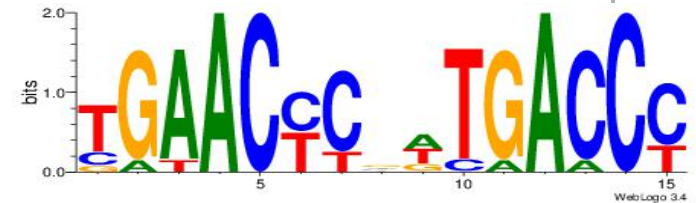
Original motif

Consensus sequence: GGGTCAWBGRGTTCA



Reverse complement motif

Consensus sequence: TGAACKCBWTGACCC



### Best Matches for Motif ID 33 (Highest to Lowest)

Motif ID:	<a href="#">UP00037</a>
Motif name:	Zfp105_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:	15
Similarity score:	0.0631638

Alignment:

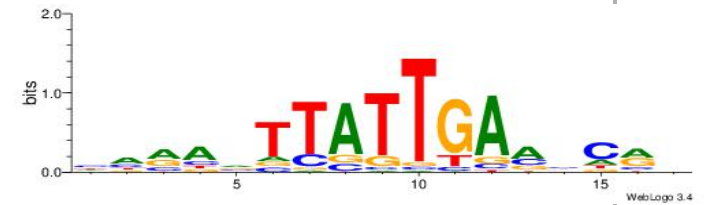
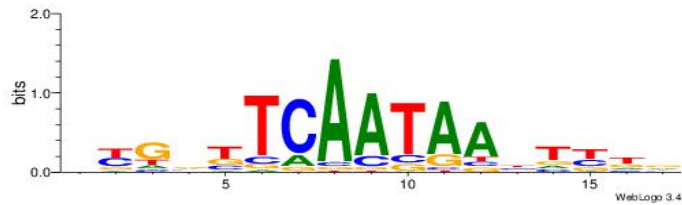
```
DYGVKTC AATAABTYDD  
--GGGTCAWBGRGTTCA
```

Original motif

Consensus sequence: DYGVKTC AATAABTYDD

Reverse complement motif

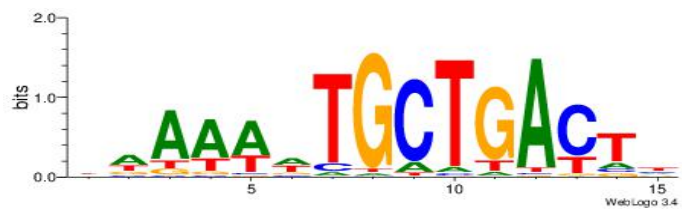
Consensus sequence: HDMAVTTATTGARVCMH



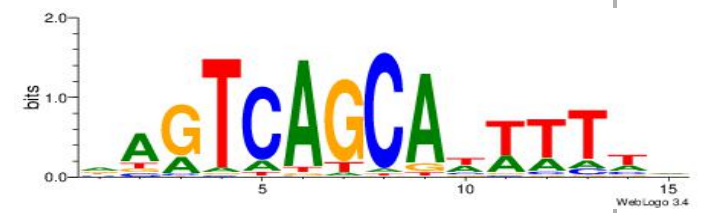
Motif ID: [UP00044](#)  
 Motif name: Mafk\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.0639668

Alignment:  
 DWAAAWTGCTGACTH  
 TGAACKCBWTGACCC

Original motif  
 Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif  
 Consensus sequence: HAGTCAGCAWTTTWD



Motif ID: [UP00538](#)

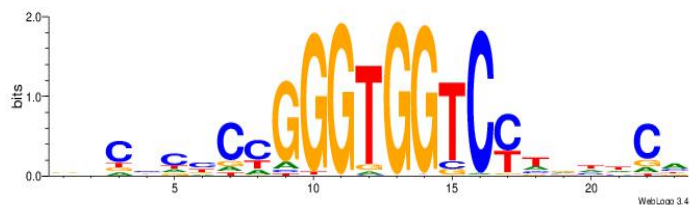
Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 15  
 Similarity score: 0.0682816

**Alignment:**

BHCBCBCCGGGTGGTCYHVHDCH  
 -----GGGTCAWBGRGTTCA

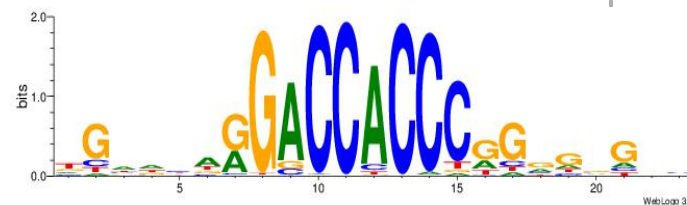
**Original motif**

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



**Reverse complement motif**

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB




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Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_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: 15



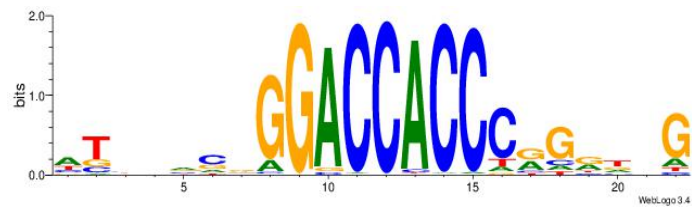
Similarity score: 0.06995

Alignment:

HTBVVVDGGACCACCCRGRDBG  
-TGAACKCBWTGACCC-----

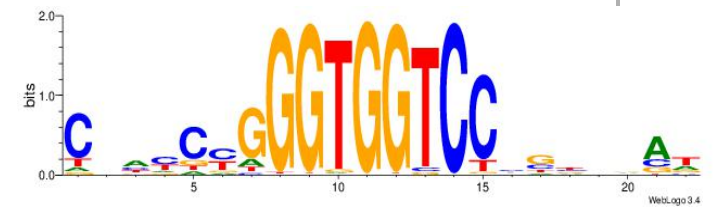
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVVBVAH



Motif ID: [UP00539](#)  
Motif name: Gli2\_v015681\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.0711699

Alignment:

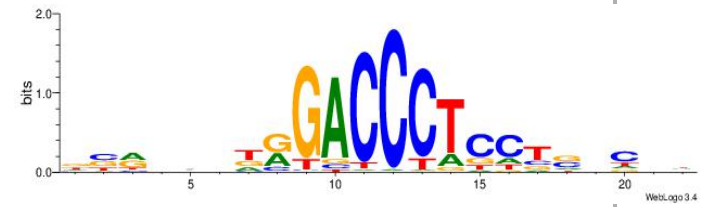
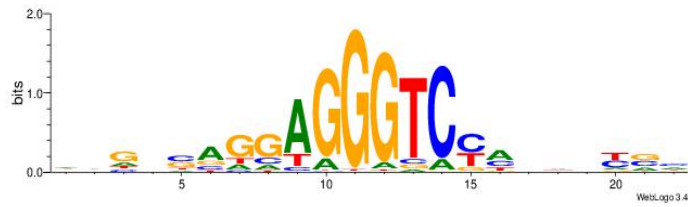
DVMHHDHKGACCCTCCTSVCBH  
-----TGAACKCBWTGACCC

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

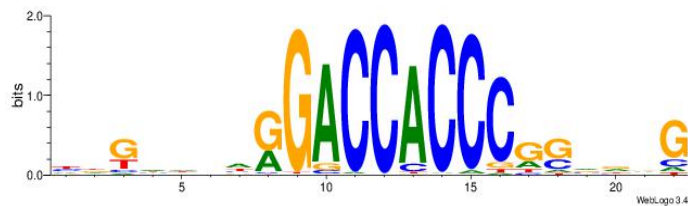


Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.072162

Alignment:  
 CVHBSCGGGTGGTCMHVHCDH  
 -----GGGTCAWBGRGTTCA-

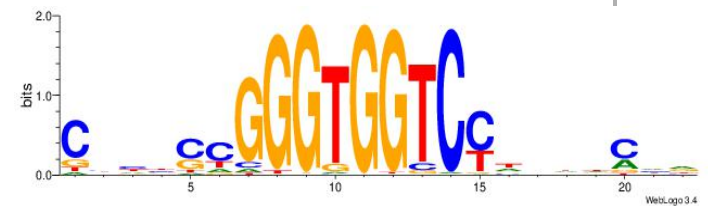
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHCDH



Motif ID: [UP00045](#)

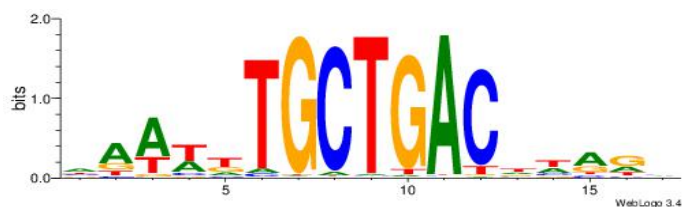
Motif name: Mafb\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.562034

**Alignment:**

-HAAWDTGCTGACDWARH  
 TGAACKCBWTGACCC---

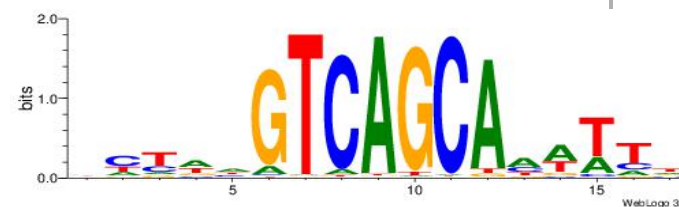
**Original motif**

Consensus sequence: HAAWDTGCTGACDWARH



**Reverse complement motif**

Consensus sequence: DMTWDGTCAGCADWTH




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Motif ID: [UP00012](#)  
 Motif name: Bbx\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14

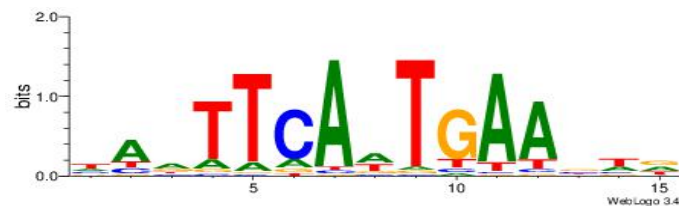
Similarity score: 0.562788

Alignment:

HWBTTCAWTGAADTH-  
-GGGTCAWBGRGTTCA

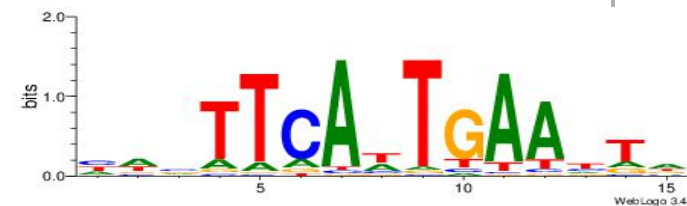
Original motif

Consensus sequence: HADTTCAWTGAABWD



Reverse complement motif

Consensus sequence: HWBTTCAWTGAADTH



Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_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: 0.56549

Alignment:

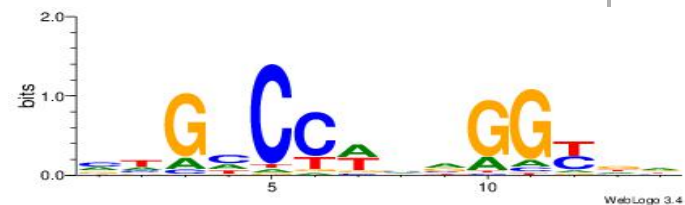
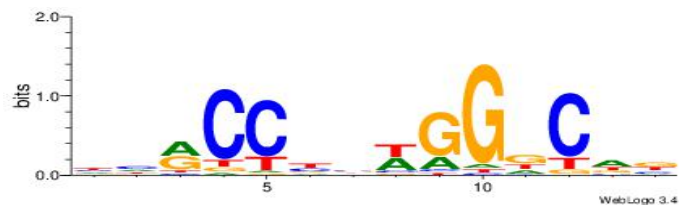
-HHRCCBBWGGDCDB  
GGGTCAWBGRGTTCA-

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



Motif ID: [UP00067](#)  
 Motif name: Lef1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.565777

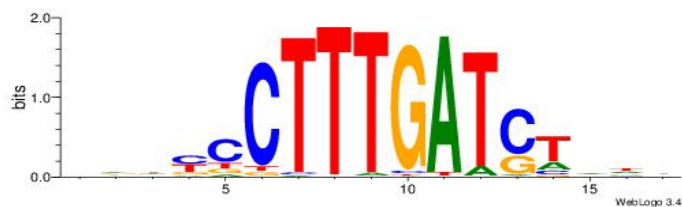
Alignment:

```

VDDAGATCAAAGGKDDD-
---GGGTCAWBGRGTTCA
  
```

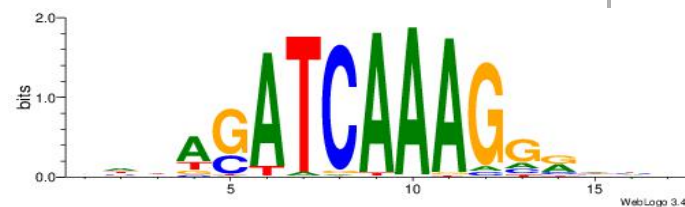
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

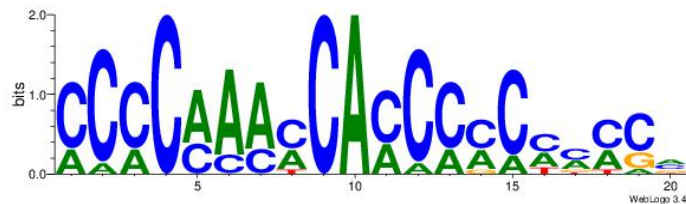
Consensus sequence: VDDAGATCAAAGKDDD



**Dataset #: 3      Motif ID: 34      Motif name: RREB1**

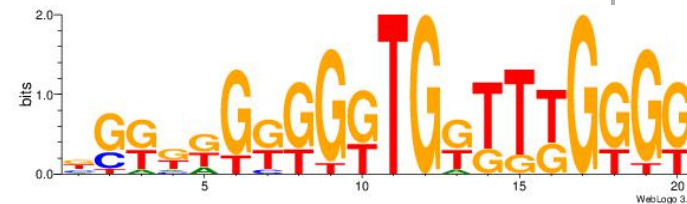
Original motif

Consensus sequence: CCCMAAMCAMCCMCMMMC



Reverse complement motif

Consensus sequence: BGRRRGRGGRTGRTTYGGGG



Best Matches for Motif ID 34 (Highest to Lowest)

Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 20  
 Similarity score: 0.0443369

Alignment:

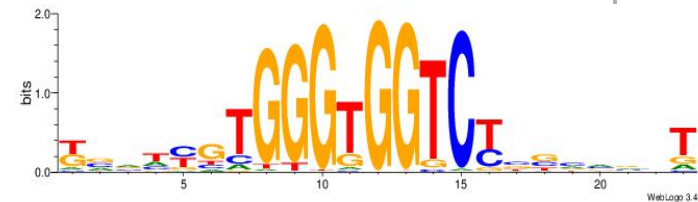
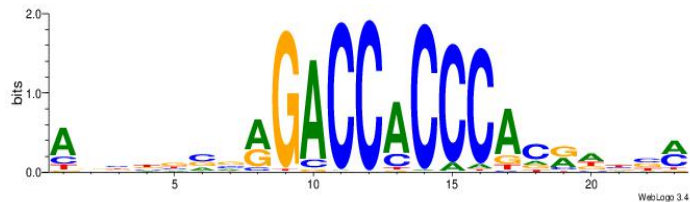
```
YBVDMGTGGGTGGTCKVVBVBBT
BGRRRGRGGRTGRTTYGGGG---
```

Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM

Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



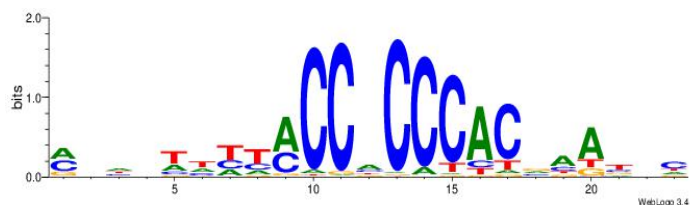
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0490569

**Alignment:**

MHHHWHYTMCCCHCCACVAABVH  
 --CCCMAAMCAMCCMCMVMCV--

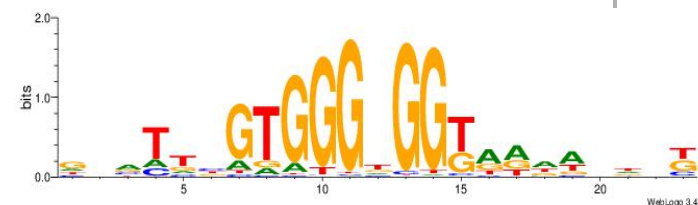
**Original motif**

Consensus sequence: MHHHWHYTMCCCHCCACVAABVH



**Reverse complement motif**

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00538](#)

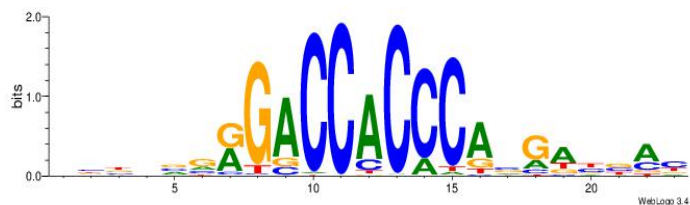
Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0546172

**Alignment:**

BTBVTCTVGGGTGGTCMVVDVBB  
 -BGRRRGRGGRTGRTTYGGGG--

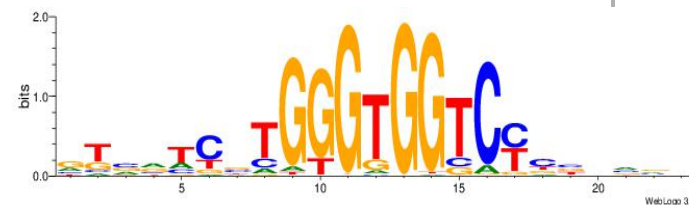
**Original motif**

Consensus sequence: BBBDVVRGACCACCAVGABBAB



**Reverse complement motif**

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB




---

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: 3  
 Number of overlap: 20



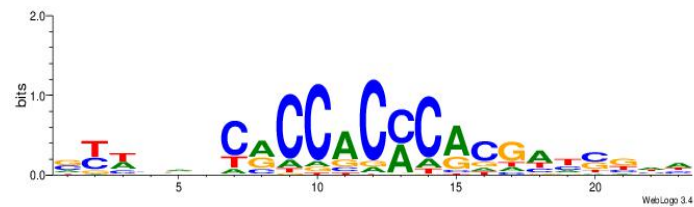
Similarity score: 0.055783

Alignment:

VYWVVHCRCCACMCACGAHSBHH  
-CCCCMAAMCAMCCMCMMMCVCV--

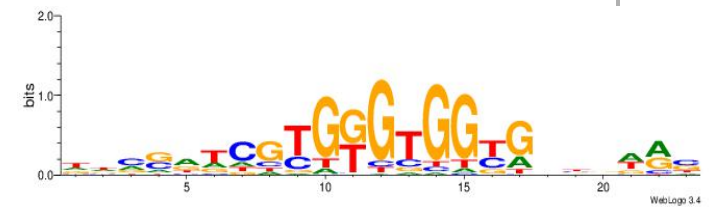
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVBVWMV



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 20  
Similarity score: 0.057969

Alignment:

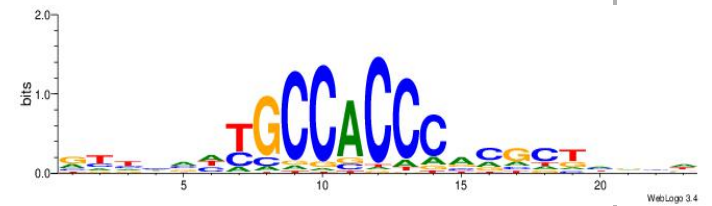
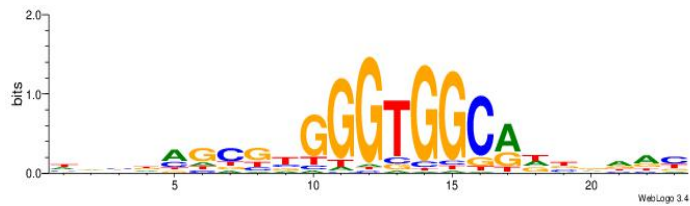
HVBDAGCGBGGGTGGCRDBDDDB  
--BGRRRGRGGRTGRTTYGGGG-

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



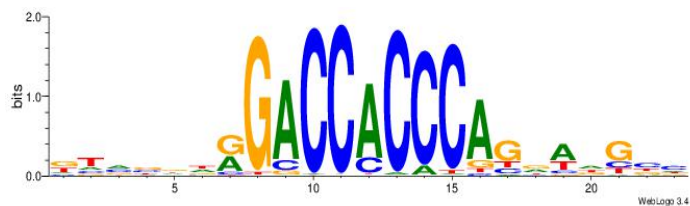
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0595101

**Alignment:**

DTVBDDRGACCACCCAGDWDGBH  
 --CCCCMAAMCAMCCMCMMMCVCV--

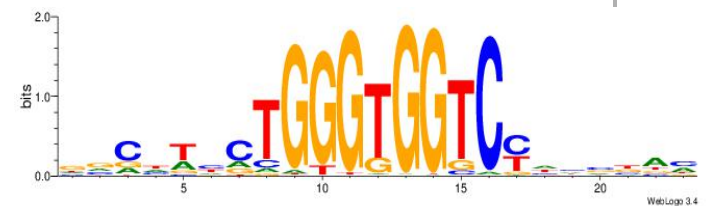
**Original motif**

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



**Reverse complement motif**

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAAH



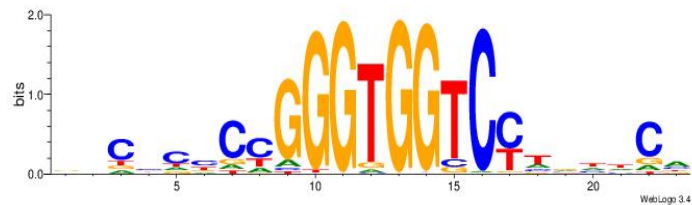
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0622003

**Alignment:**

BHCBCBCCGGGTGGTCYHVHDCH  
 -BGRRRRGRGGRTGRTTYGGGG--

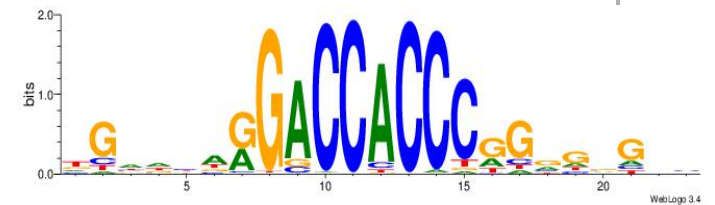
**Original motif**

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



**Reverse complement motif**

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2

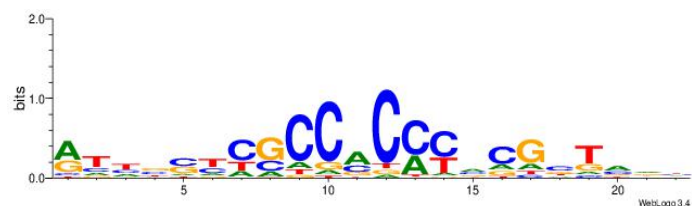
Number of overlap: 20  
Similarity score: 0.0626951

Alignment:

RTHBSYCGCCMCMYVCGBTVDH  
-CCCCMAAMCAMCCMCMMMCVC-

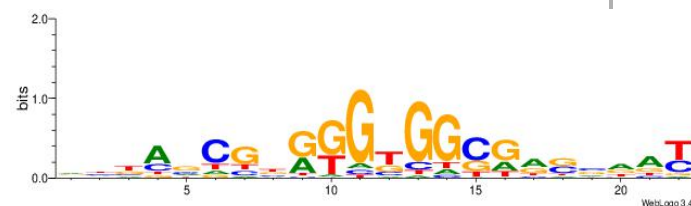
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



---

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: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.0631901

Alignment:

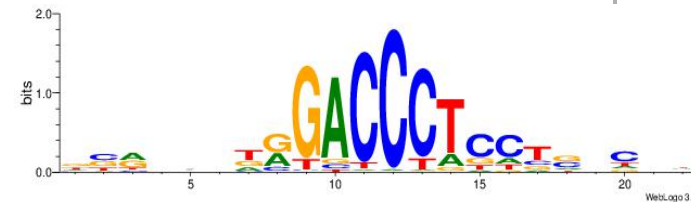
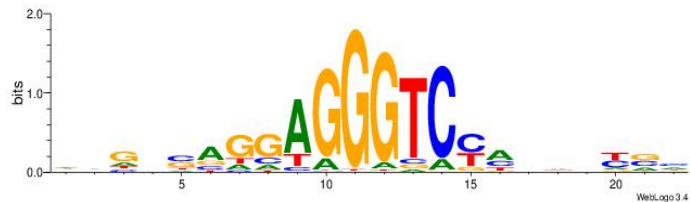
HVGVSAGGAGGGTCYHHHHYVH  
CCCCMAAMCAMCCMCMMMCVC--

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

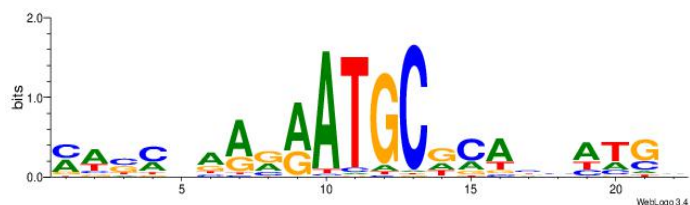
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



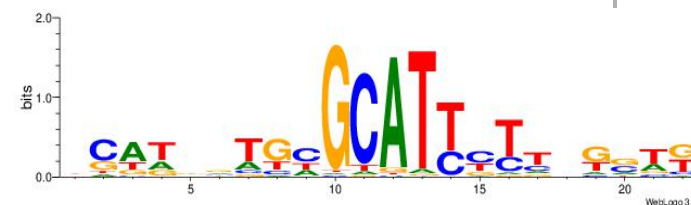
Motif ID: [UP00528](#)  
 Motif name: Foxm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 20  
 Similarity score: 0.0673848

Alignment:  
 DCATDBTGHGCATKMTTBRSWR  
 --BGRRRGRGGRTGRTTYGGGG

Original motif  
 Consensus sequence: MWSMBAARRATGCD CABHATGD



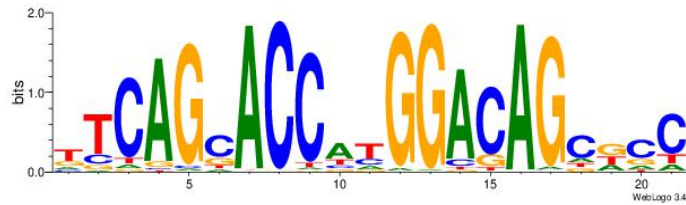
Reverse complement motif  
 Consensus sequence: DCATDBTGHGCATKMTTBRSWR



**Dataset #: 3      Motif ID: 35      Motif name: REST**

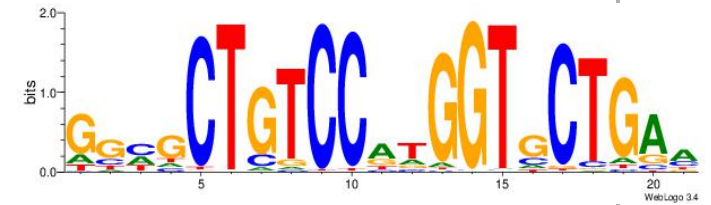
### Original motif

Consensus sequence: TTCAGCACCATGGACAGCKCC



### Reverse complement motif

Consensus sequence: GYGCTGTCCATGGTGCTGAA



### Best Matches for Motif ID 35 (Highest to Lowest)

Motif ID: [UP00538](#)  
Motif name: Gli1\_v015681\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 21  
Similarity score: 0.0699178

#### Alignment:

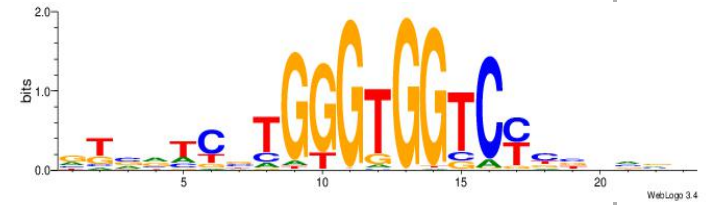
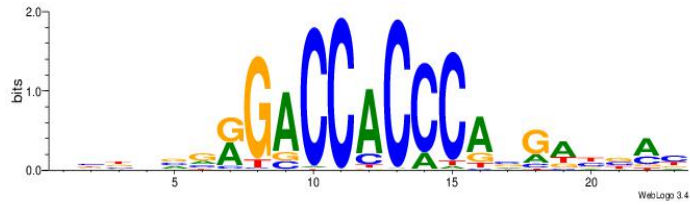
```
BBBDVVRGACCACCCAVGABBAB  
--TTCAGCACCATGGACAGCKCC
```

### Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB

### Reverse complement motif

Consensus sequence: BTBVCVTGGGTGGTCMVVDVBB

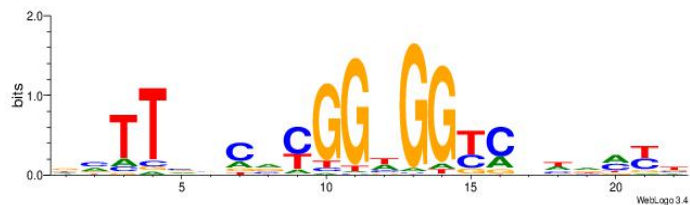


Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 21  
 Similarity score: 0.0734685

Alignment:  
 VMYDHDGMCCHCCKBGVVAAVH  
 GYGCTGTCCATGGTGTCTGAA-

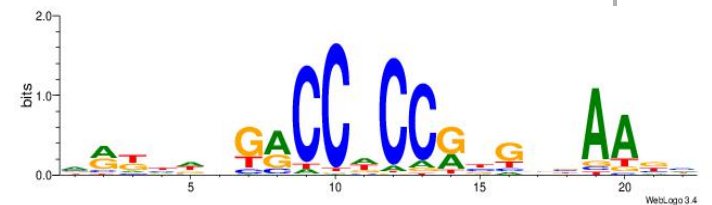
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAAVH



Motif ID: [UP00540](#)

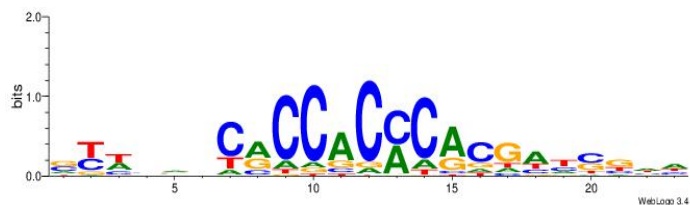
Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 21  
 Similarity score: 0.0740652

**Alignment:**

VYWVVHCRCCACMCACGAHSBHH  
 -TTCAGCACCATGGACAGCKCC-

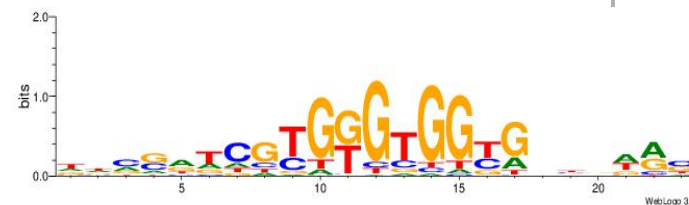
**Original motif**

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



**Reverse complement motif**

Consensus sequence: HHBSHTCGTGRGTGGK GDBVWMV




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Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 21



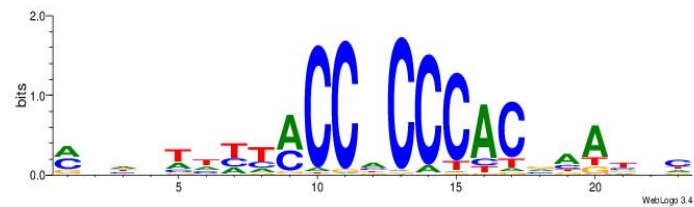
Similarity score: 0.0750152

Alignment:

MHHHWHYTMCCCHCCCACVAABVH  
--TTCAGCACCATGGACAGCKCC

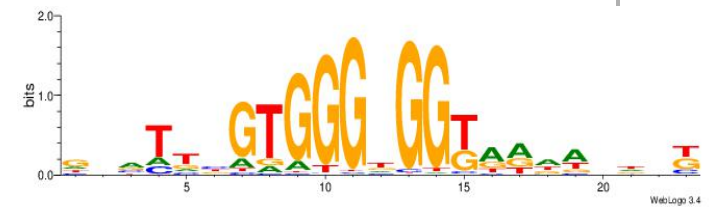
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 21  
Similarity score: 0.0751449

Alignment:

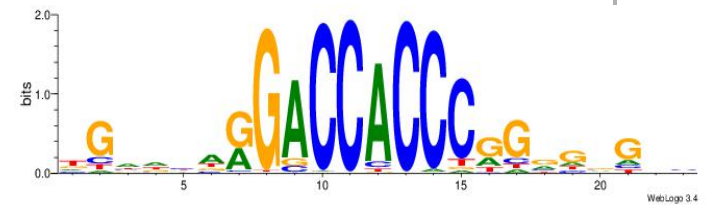
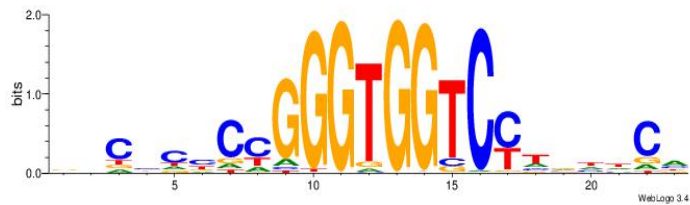
BHCBCBCCGGGTGGTCYHVHDCH  
GGYGCTGTCCATGGTGCTGAA--

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



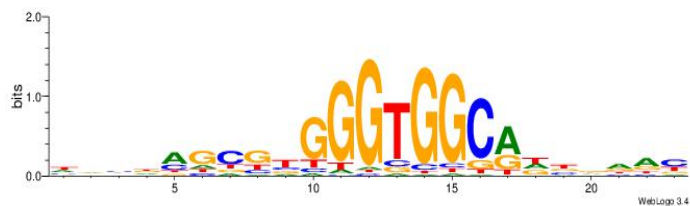
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 21  
 Similarity score: 0.075832

**Alignment:**

BDDHVDKGCCACCCVCGCTDBVH  
 -TTCAGCACCATGGACAGCKCC-

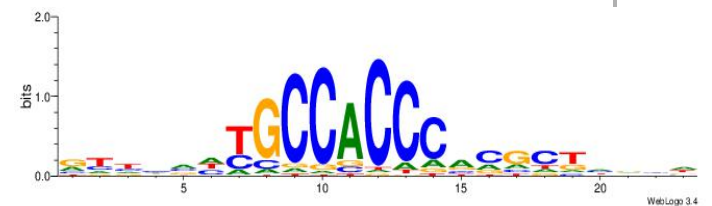
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



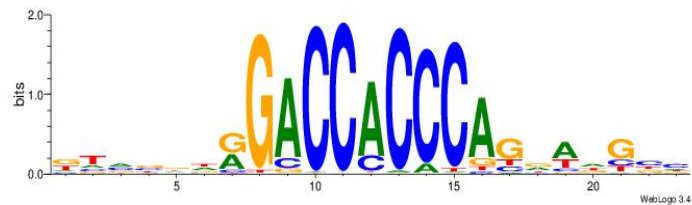
Motif ID: [UP00539](#)  
Motif name: Gli2\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 21  
Similarity score: 0.0773446

Alignment:

```
DTVBDDRGACCACCCAGDWDGBH  
--TTCAGCACCATGGACAGCKCC
```

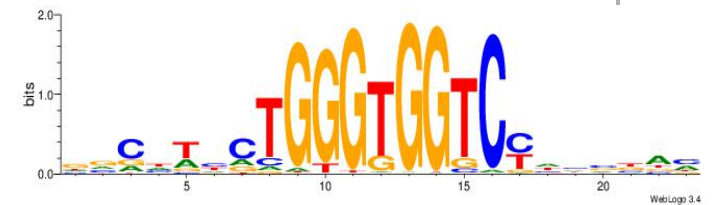
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAAH



Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3

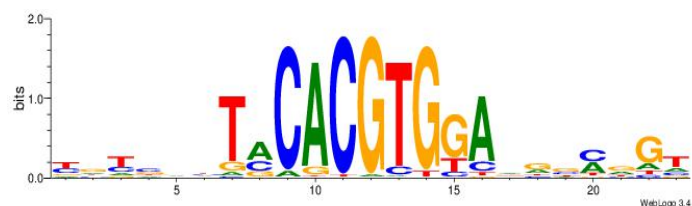
Number of overlap: 21  
Similarity score: 0.0775367

Alignment:

YDYBDHTMCACGTGGADDBMDGT  
--TTCAGCACCATGGACAGCKCC

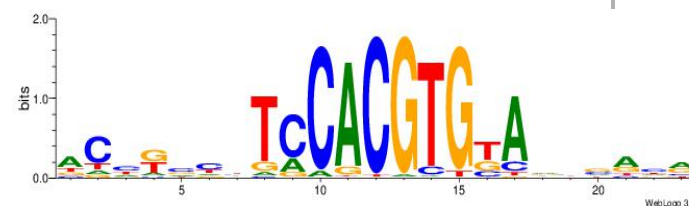
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 21  
Similarity score: 0.077977

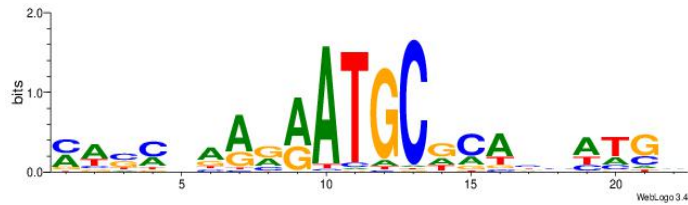
Alignment:

DCATDBTGHGCATKMTTBRSWR  
-GGYGCTGTCCATGGTGCTGAA

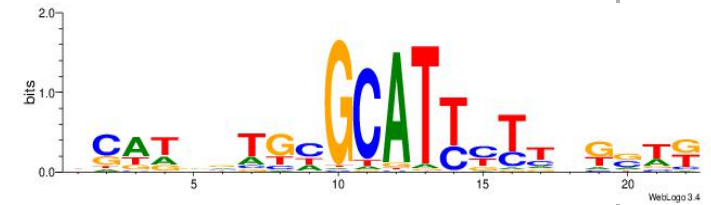
Original motif

Reverse complement motif

Consensus sequence: MWSMBAARRATGDCABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



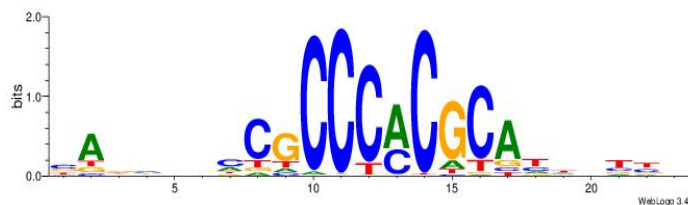
Motif ID: [UP00400](#)  
Motif name: Zif268  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 21  
Similarity score: 0.0785969

Alignment:

VVDHHTGCGYGGGCGDHVHHTB  
--GGYGCTGTCCATGGTGCTGAA

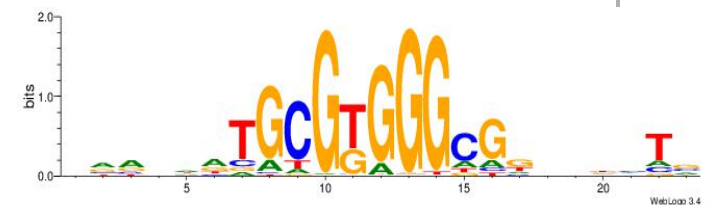
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHVHHTB



**Dataset #: 3      Motif ID: 36      Motif name: PPARGRXRA**

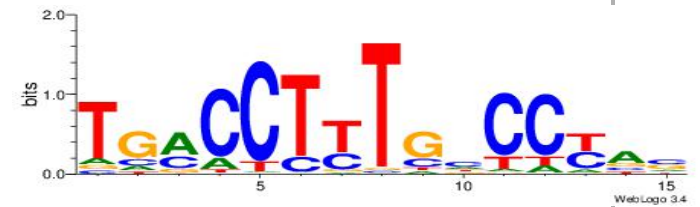
Original motif

Consensus sequence: BTRGGDCARAGGKCA



Reverse complement motif

Consensus sequence: TGRCTKTGHCKKAB



### Best Matches for Motif ID 36 (Highest to Lowest)

Motif ID: [UP00067](#)  
Motif name: Lef1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0304954

Alignment:

VDDAGATCAAAGGKDDD

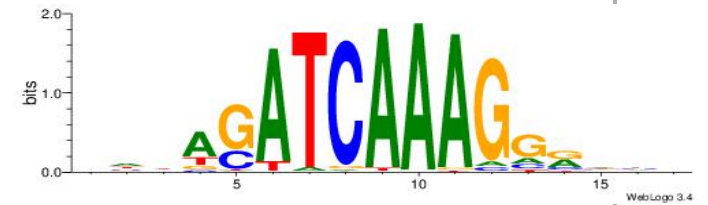
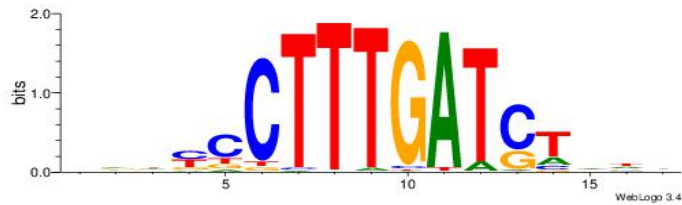
-BTRGGDCARAGGKCA-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

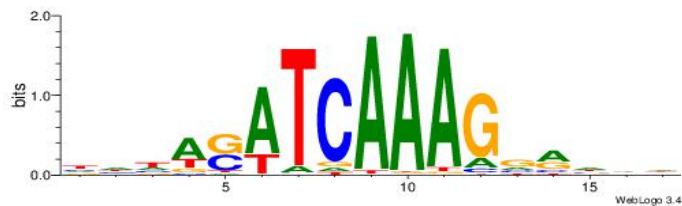


Motif ID: [UP00058](#)  
 Motif name: Tcf3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0319475

Alignment:  
 HHHASATCAAAGVRRHHH  
 -BTRGGDCARAGGKCA-

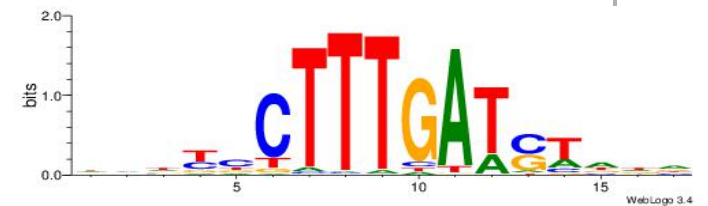
Original motif

Consensus sequence: HHHASATCAAAGVRRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00054](#)

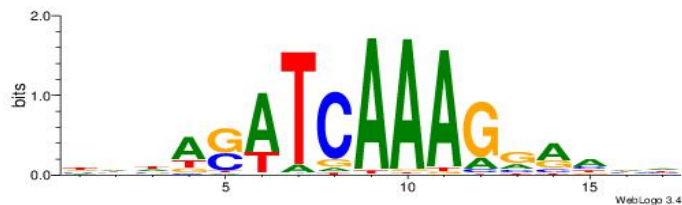
Motif name: Tcf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.032779

Alignment:

BHHASATCAAAGGAHHH  
 -BTRGGDCARAGGKCA-

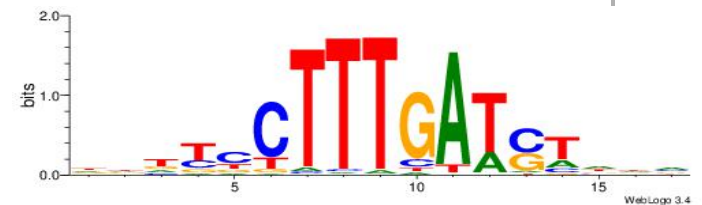
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV




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Motif ID: [UP00082](#)  
 Motif name: Zfp187\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15



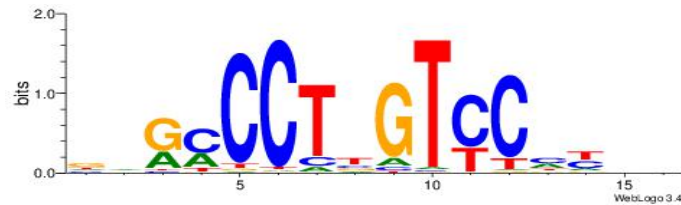
Similarity score: 0.0334185

Alignment:

VHMDGGACVAGGRCDH  
BTRGGDCARAGGKCA-

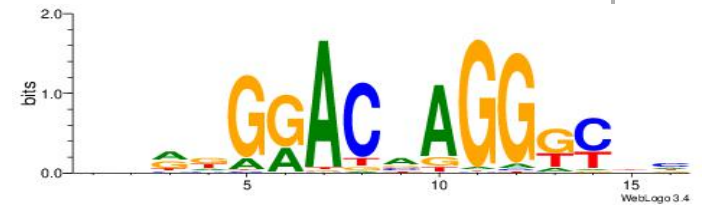
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID: [UP00062](#)  
Motif name: Sox4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0352539

Alignment:

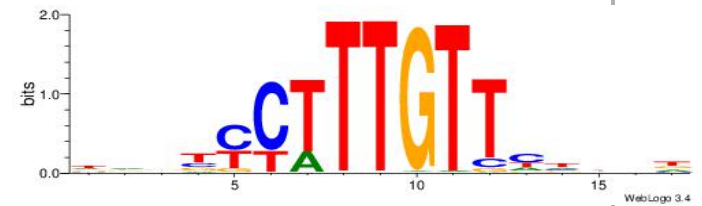
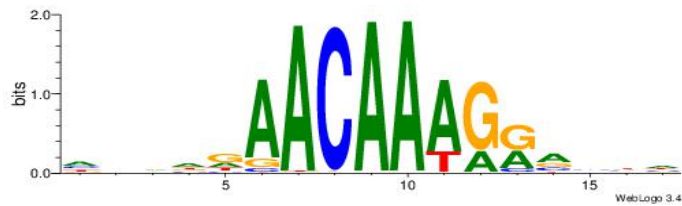
HBDDDAACAAAGRVBHH  
-BTRGGDCARAGGKCA-

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



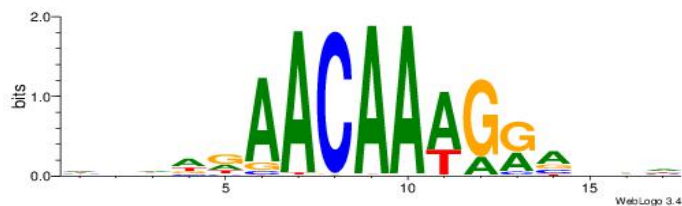
Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0358782

**Alignment:**

HBDDRAACAAAGRABHH  
 -BTRGGDCARAGGKCA-

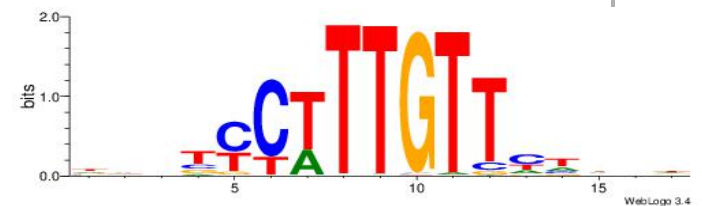
**Original motif**

Consensus sequence: HBDDRAACAAAGRABHH



**Reverse complement motif**

Consensus sequence: HHBTMCTTTGTTMDDVH



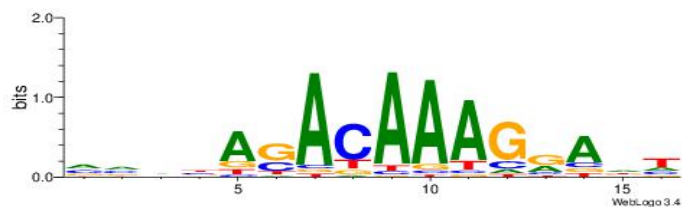
Motif ID: [UP00101](#)  
Motif name: Sox12\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0374729

Alignment:

HDTMCTTTGTSTVDBB  
TGRCCCTKTGHCKKAB-

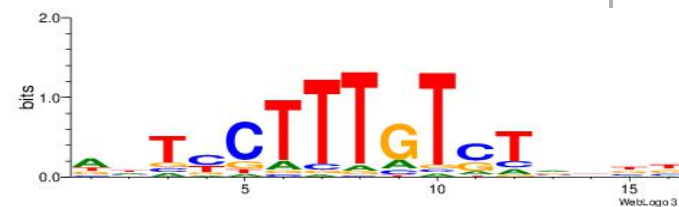
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



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Motif ID: [UP00083](#)  
Motif name: Tcf7l2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2

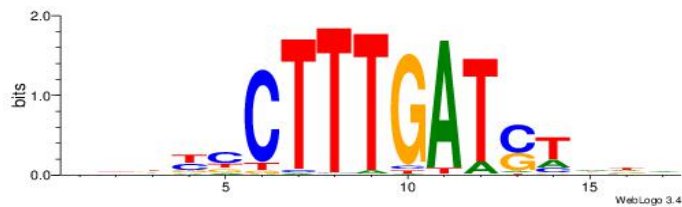
Number of overlap: 15  
Similarity score: 0.0379757

Alignment:

BDDASATCAAAGGMDDD  
-BTRGGDCARAGGKCA-

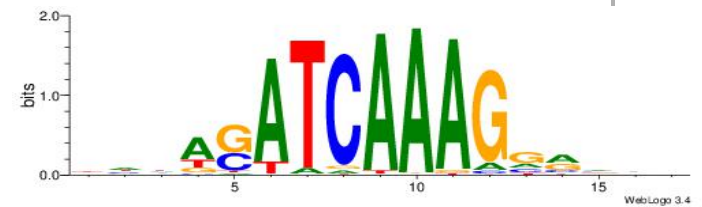
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



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Motif ID: [UP00093](#)  
Motif name: Klf7\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0382733

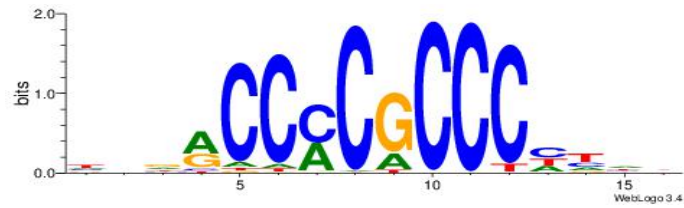
Alignment:

DHHDGGGCGRGGKHBH  
BTRGGDCARAGGKCA-

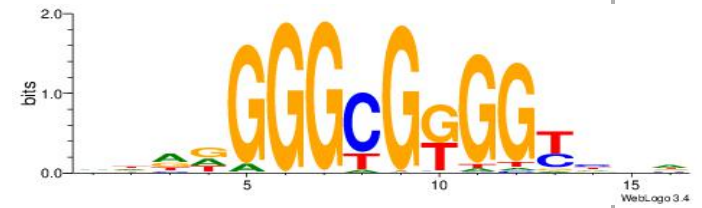
Original motif

Reverse complement motif

Consensus sequence: HBDRCMCGCCCHHHD



Consensus sequence: DHHDGGGCGRGGKHBH



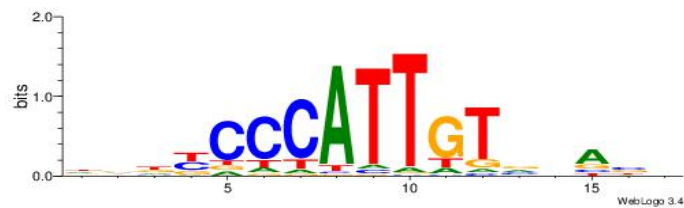
Motif ID: [UP00055](#)  
Motif name: Hbp1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.0397168

Alignment:

```
HBTHVACAATGGGMDHD  
BTRGGDCARAGGKCA--
```

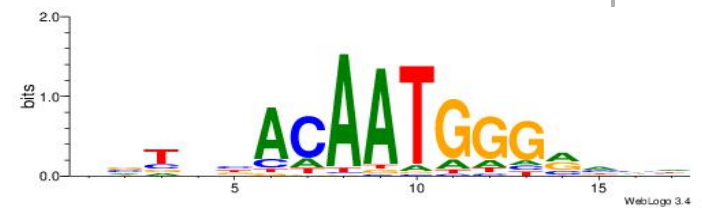
Original motif

Consensus sequence: DDDYCCATTGTVHABH



Reverse complement motif

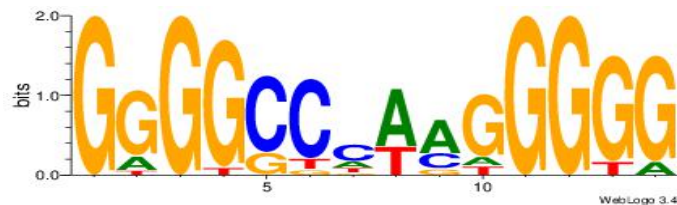
Consensus sequence: HBTHVACAATGGGMDHD



**Dataset #: 3**      **Motif ID: 37**      **Motif name: PLAG1**

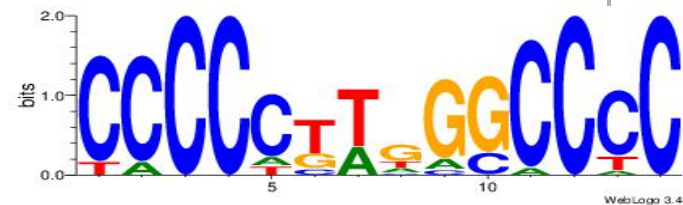
Original motif

Consensus sequence: GGGGCCCAAGGGG



Reverse complement motif

Consensus sequence: CCCCTTGGGCC



### Best Matches for Motif ID 37 (Highest to Lowest)

Motif ID:	<a href="#">UP00102</a>
Motif name:	Zic1_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:	0.0499525

Alignment:

CCCCCCGGGGGHB

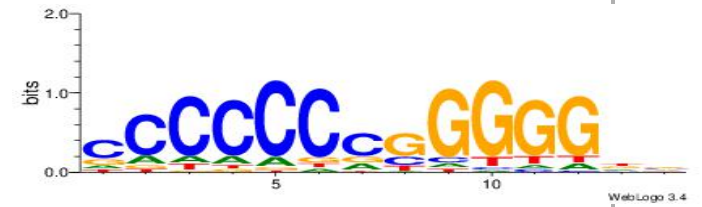
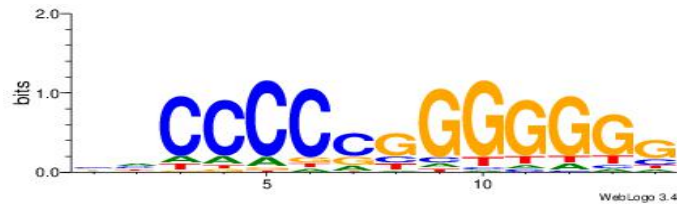
CCCCTTGGGCC

Original motif

Consensus sequence: BHCCCCGGGGGG

Reverse complement motif

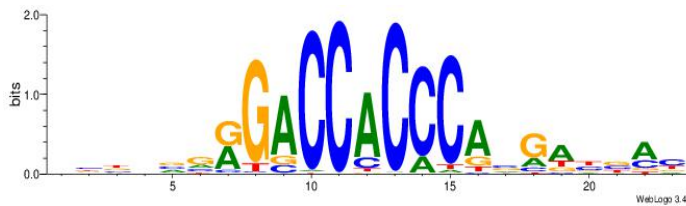
Consensus sequence: CCCCCCGGGGHB



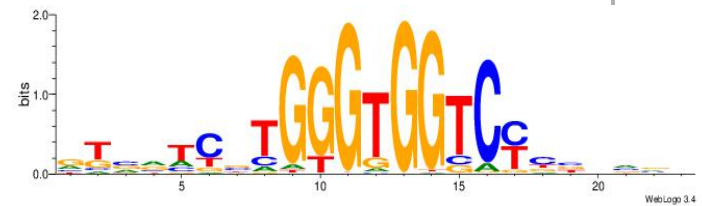
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0540613

Alignment:  
 BTBVTCTGGGTGGTCMVVDVBB  
 -----CCCCCTTGGGCCCC

Original motif  
 Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif  
 Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



Motif ID: [UP00057](#)  
 Motif name: Zic2\_primary

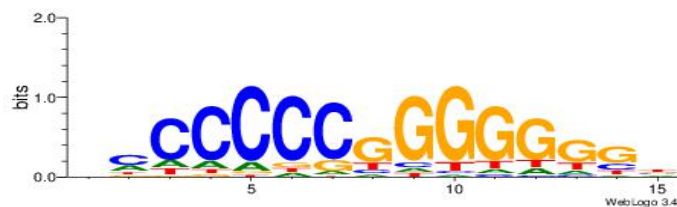
Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0548411

Alignment:

BMCCCCCGGGGGGB  
 -CCCCCTGGGCCCC

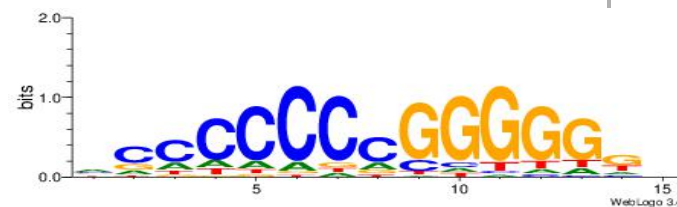
Original motif

Consensus sequence: BMCCCCCGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB




---

Motif ID: [UP00005](#)  
 Motif name: Tcfap2a\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0556785

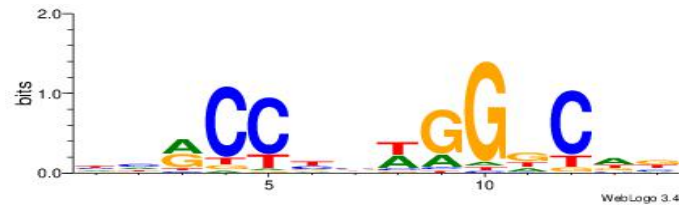


Alignment:

HHRCCBBWGGDCDB  
GGGGCCCAAGGGGG

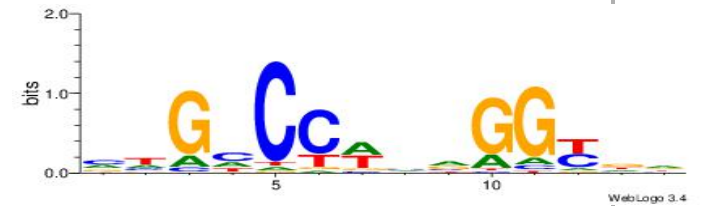
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



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Motif ID: [UP00006](#)  
Motif name: Zic3\_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: 0.056976

Alignment:

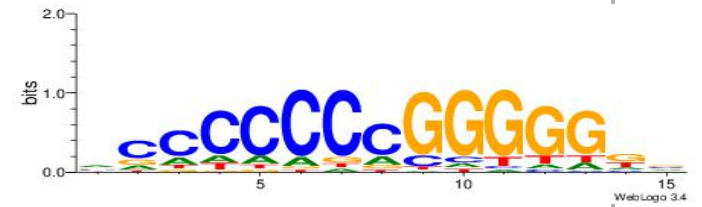
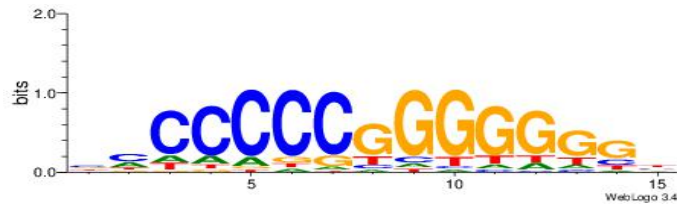
BMCCCCCGGGGGGB  
-CCCCCTTGGGCCCC

Original motif

Consensus sequence: BMCCCCCGGGGGGB

Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB

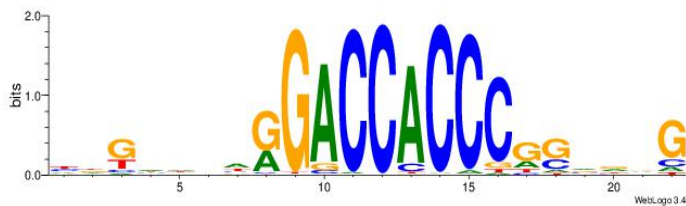


Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 14  
 Similarity score: 0.0573495

Alignment:  
 HDGHHBHRGACCACCCGSVDVG  
 CCCCCTTGGGCCCC-----

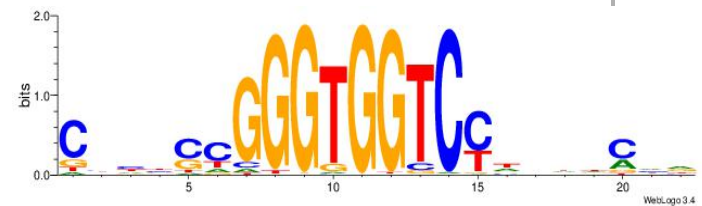
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00540](#)

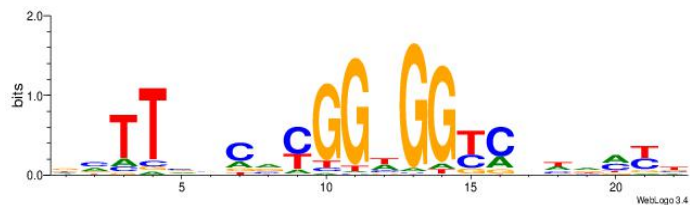
Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 14  
 Similarity score: 0.0579022

**Alignment:**

VMYDHDGMCCCHCCKBGVVAAVH  
 -----CCCCCTTGGGCCCC

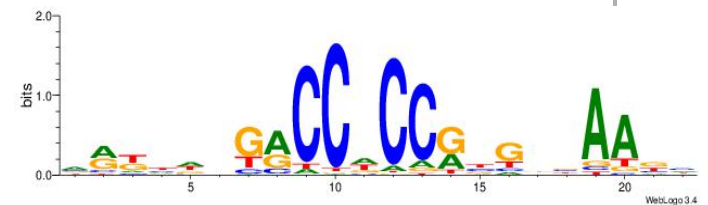
**Original motif**

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



**Reverse complement motif**

Consensus sequence: VMYDHDGMCCCHCCKBGVVAAVH




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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: 9  
 Number of overlap: 14

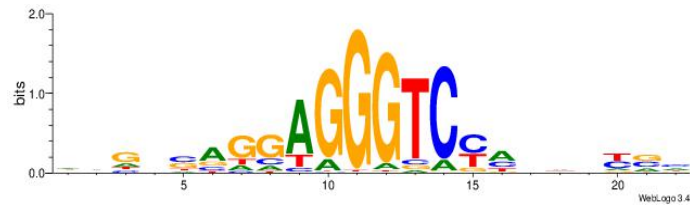
Similarity score: 0.0580662

Alignment:

DVMHHDHKGACCCTCCTSVCBH  
CCCCCTTGGGCCCC-----

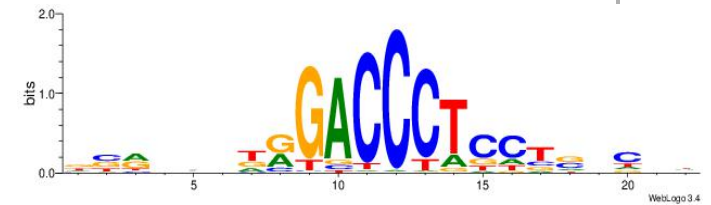
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0597453

Alignment:

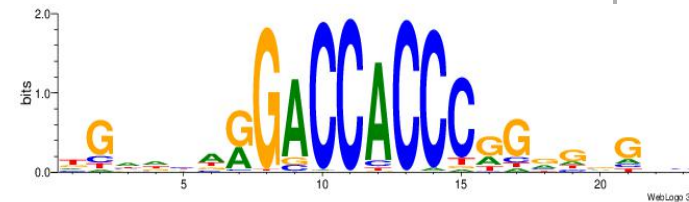
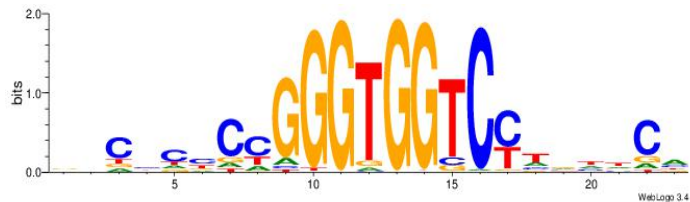
HGDHVHKGACCACCCGGBGBGDB  
-----CCCCCTTGGGCCCC

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

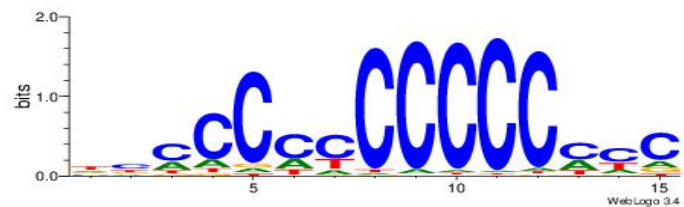
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00021](#)  
 Motif name: Zfp281\_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: 0.0598088

Alignment:  
 GKRGGGGGGGGGGBD  
 -CCCCCTGGGCCCC

Original motif  
 Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif  
 Consensus sequence: GKRGGGGGGGGGGBD



**Dataset #: 3      Motif ID: 38      Motif name: NR2F1**

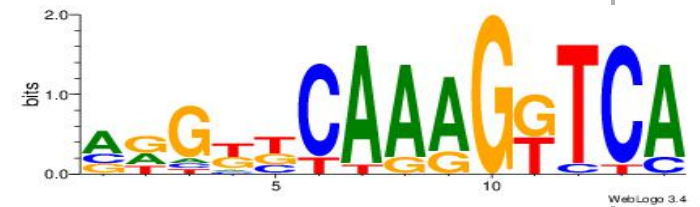
Original motif

Consensus sequence: TGAMCTTTGMMCYT



Reverse complement motif

Consensus sequence: AKGYCAAAGRTCA



### Best Matches for Motif ID 38 (Highest to Lowest)

Motif ID: [UP00083](#)  
Motif name: Tcf7l2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0452364

Alignment:

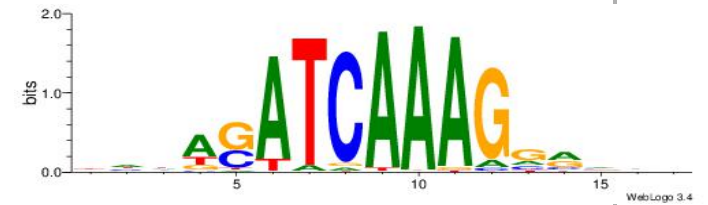
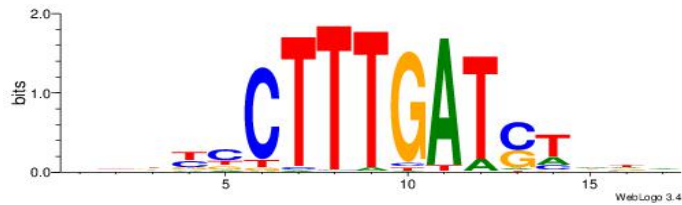
```
DDDYCCTTTGATSTDDV  
-TGAMCTTTGMMCYT--
```

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD

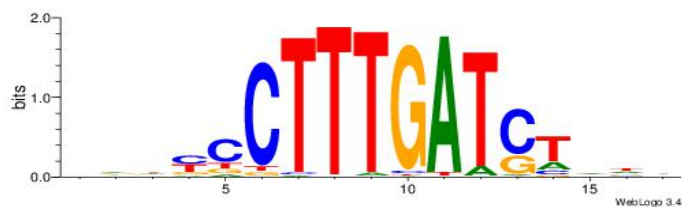


Motif ID: [UP00067](#)  
 Motif name: Lef1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0453449

Alignment:  
 VDDAGATCAAAGKDDD  
 --AKGY YCAAAGRTCA-

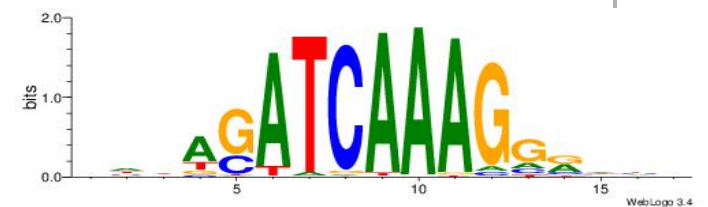
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGKDDD



Motif ID: [UP00539](#)

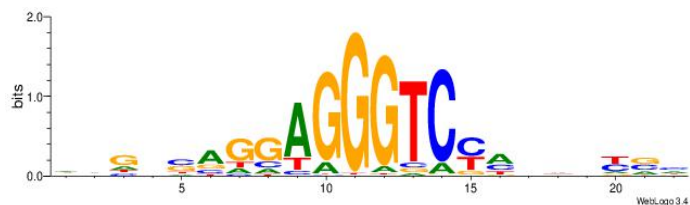
Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 14  
 Similarity score: 0.0461358

**Alignment:**

DVMHHDHKGACCCTCCTSVCBH  
 -----TGAMCTTTGMMCYT-

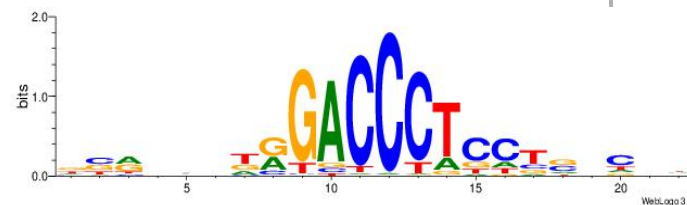
**Original motif**

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



**Reverse complement motif**

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH




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Motif ID: [UP00054](#)  
 Motif name: Tcf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14



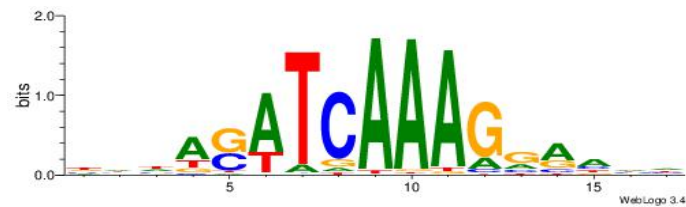
Similarity score: 0.0461768

Alignment:

BHHASATCAAAGGAHHH  
--AKGYECAAGRTCA-

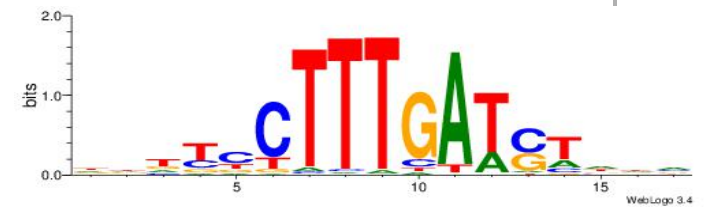
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00058](#)  
Motif name: Tcf3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0473628

Alignment:

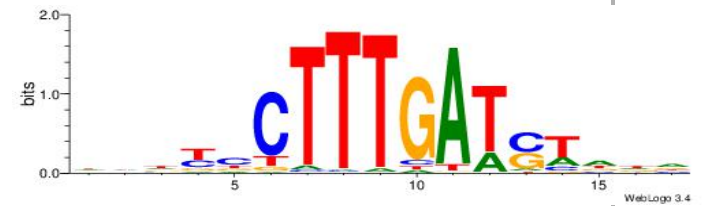
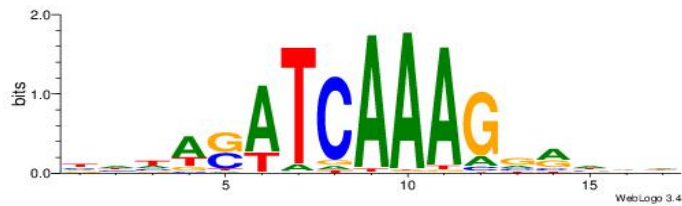
HHHASATCAAAGVRHHH  
--AKGYECAAGRTCA-

Original motif

Consensus sequence: HHHASATCAAAGVRHHH

Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH

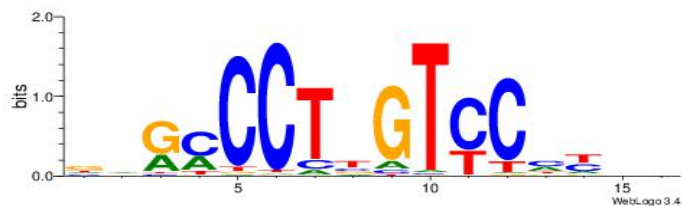


Motif ID: [UP00082](#)  
 Motif name: Zfp187\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0480188

Alignment:  
 DDGMCCTBGTCCHYHV  
 TGAMCTTTGMMCYT--

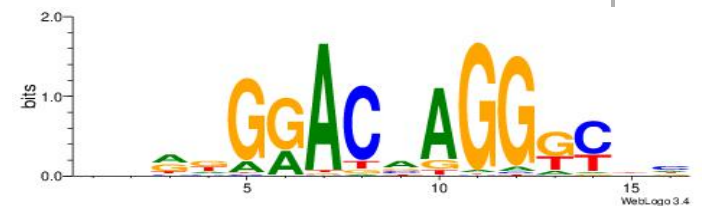
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



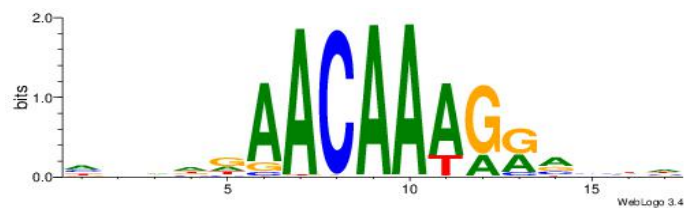
Motif ID: [UP00062](#)  
Motif name: Sox4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0495447

Alignment:

HHBBMCTTTGTTTHDDBH  
-TGAMCTTTGMMCYT--

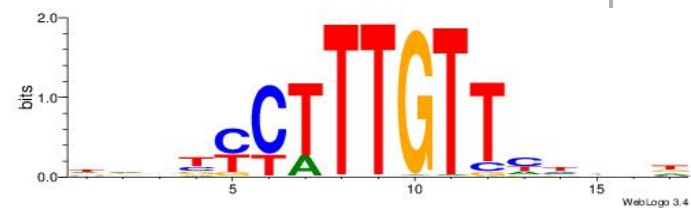
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH



Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3

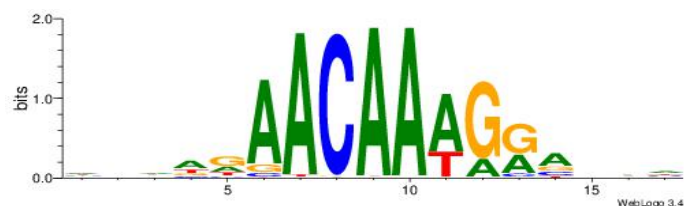
Number of overlap: 14  
Similarity score: 0.0499033

Alignment:

HHBTMCTTTGTTMDDVH  
-TGAMCTTTGMMCYT--

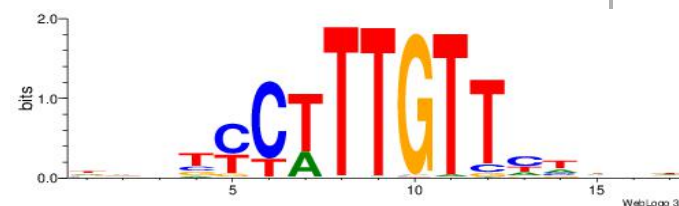
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



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Motif ID: [UP00023](#)  
Motif name: Sox30\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0511534

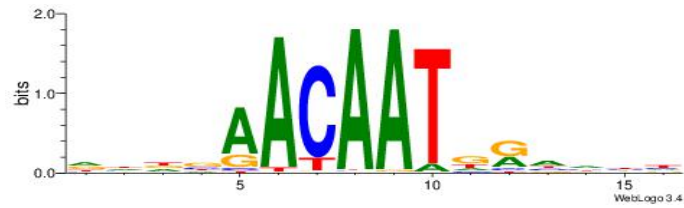
Alignment:

DHDBAACAATDRHHHH  
--TGAMCTTTGMMCYT

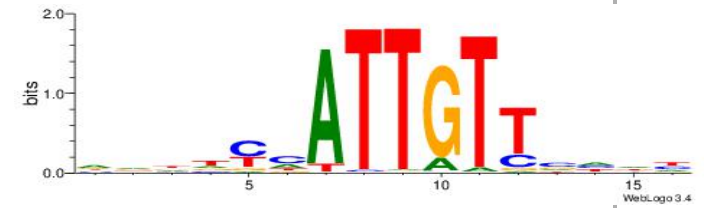
Original motif

Reverse complement motif

Consensus sequence: DHDBAACAATDRHHHH



Consensus sequence: HHHHMHATTGTTBDHD



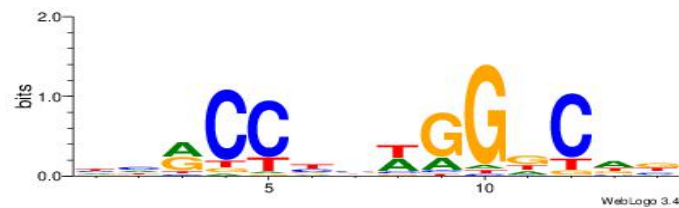
Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0516973

Alignment:

BDGHCCWBVGGKDH  
AKGY YCAAAGRTCA

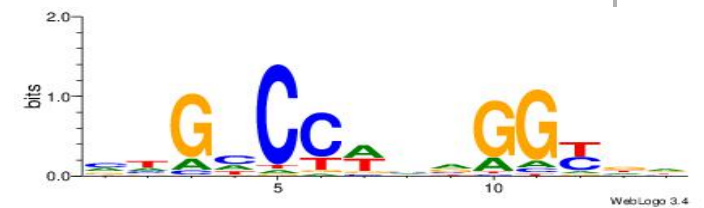
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



**Dataset #: 3**      **Motif ID: 39**      **Motif name: MZF1\_1-4**

Original motif

Consensus sequence: BGGGGA



Reverse complement motif

Consensus sequence: TCCCCV



### Best Matches for Motif ID 39 (Highest to Lowest)

Motif ID:	<a href="#">UP00176</a>
Motif name:	Crx
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:	6
Similarity score:	0

Alignment:

YBWDGGGGATTARCCD

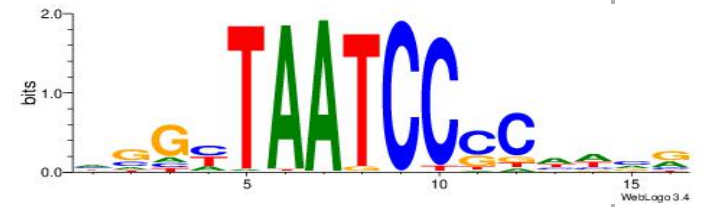
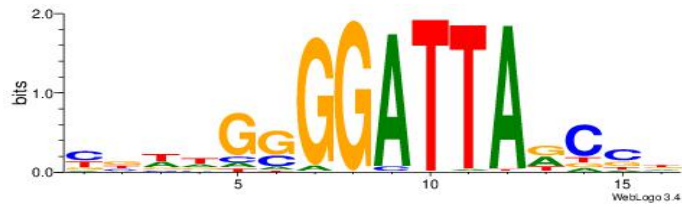
---BGGGGA-----

Original motif

Consensus sequence: YBWDGGGGATTARCCD

Reverse complement motif

Consensus sequence: DGGMTAATCCCCDWBK

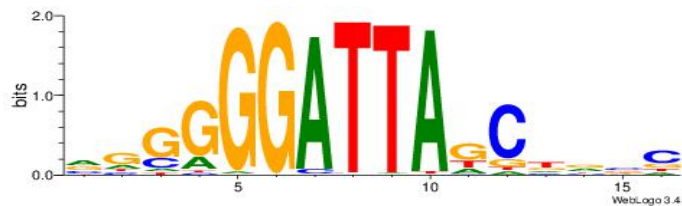


Motif ID: [UP00265](#)  
 Motif name: Pitx3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 6  
 Similarity score: 0.00193291

Alignment:  
 GBHDGCTAATCCCCCB  
 -----TCCCCV-

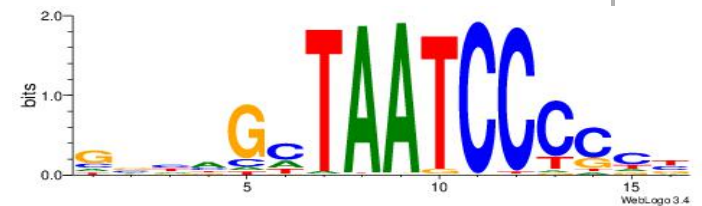
Original motif

Consensus sequence: VGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



Motif ID: [UP00239](#)

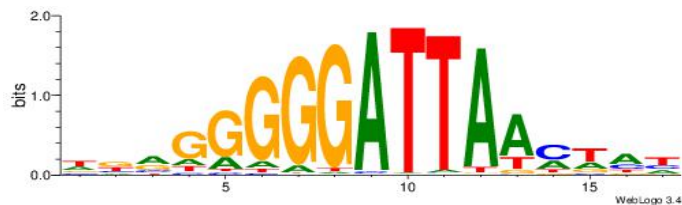
Motif name: Obox2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.00284735

Alignment:

HTARTTAATCCCCCKBD  
 -----TCCCCV----

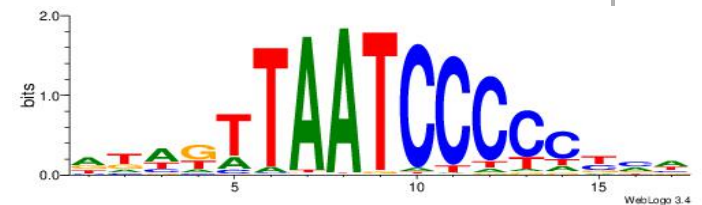
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD




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Motif ID: [UP00216](#)  
 Motif name: Obox1  
 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: 6



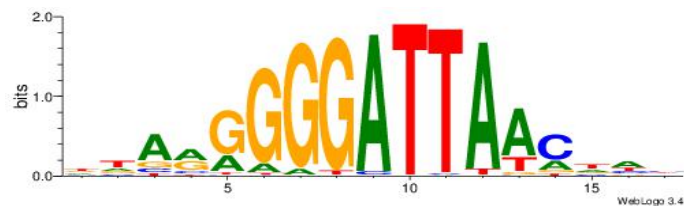
Similarity score: 0.00461976

Alignment:

DDARGGGGATTAACDHH  
---BGGGA-----

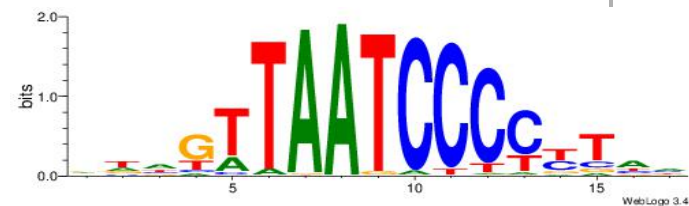
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCCKTDD



Motif ID: [UP00160](#)  
Motif name: Obox3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0.00641818

Alignment:

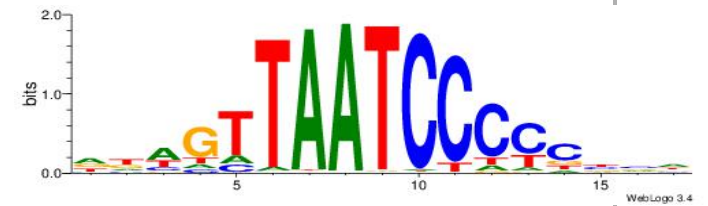
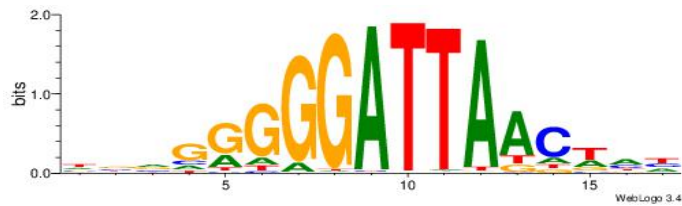
HHWGTTAATCCCCBBH  
-----TCCCV---

Original motif

Consensus sequence: HBVGGGGGATTAACWHH

Reverse complement motif

Consensus sequence: HHWGTTAATCCCCBBH

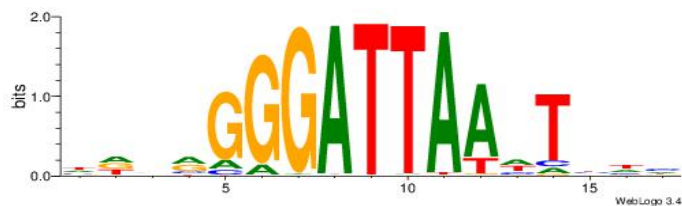


Motif ID: [UP00208](#)  
 Motif name: Obox5\_2284.1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 6  
 Similarity score: 0.0110256

Alignment:  
 HDVRGGGATTAAHTHHH  
 --BGGGA-----

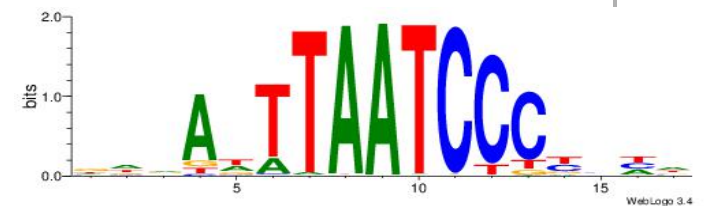
Original motif

Consensus sequence: HDVRGGGATTAAHTHHH



Reverse complement motif

Consensus sequence: DHHHTTAATCCCKVDH



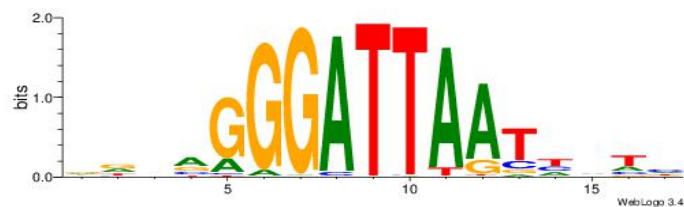
Motif ID: [UP00143](#)  
Motif name: Dobox5  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 10  
Number of overlap: 6  
Similarity score: 0.0136568

Alignment:

DDHVGGGATTAATHDTH  
--BGGGGA-----

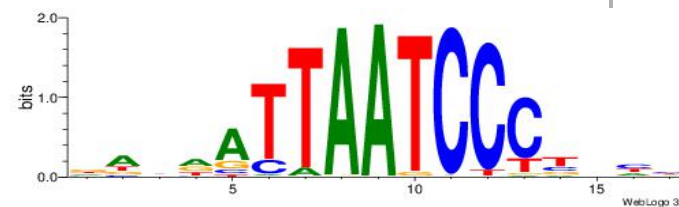
Original motif

Consensus sequence: DDHVGGGATTAATHDTH



Reverse complement motif

Consensus sequence: DADHATTAATCCCBHHH

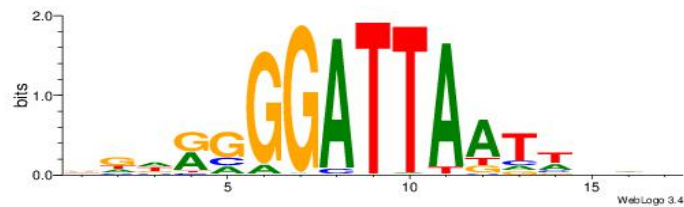


Motif ID: [UP00229](#)  
Motif name: Otx1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 10

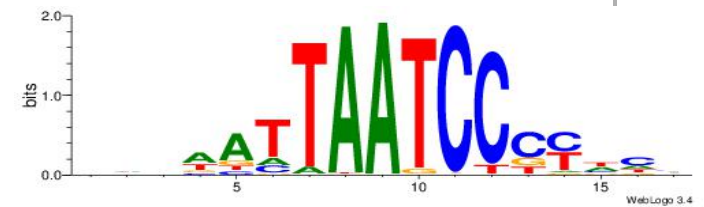
Number of overlap: 6  
Similarity score: 0.0138939

Alignment:  
DDDRGGGATTAATWHHB  
--BGGGA-----

Original motif  
Consensus sequence: DDDRGGGATTAATWHHB



Reverse complement motif  
Consensus sequence: VHHWATTAATCCCMDHH



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Motif ID: [UP00267](#)  
Motif name: Otx2  
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: 6  
Similarity score: 0.016387

Alignment:  
DDDRGGGATTAATHDDH  
--BGGGA-----

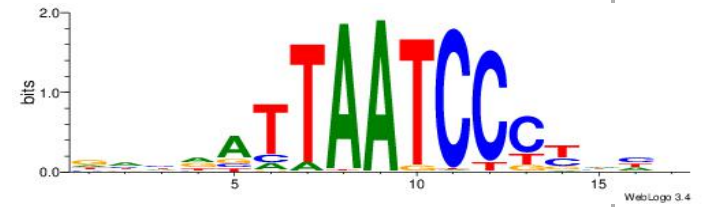
Original motif

Reverse complement motif

Consensus sequence: DDRGGGATTAATHDDH



Consensus sequence: DDHHATTAATCCCKDHD



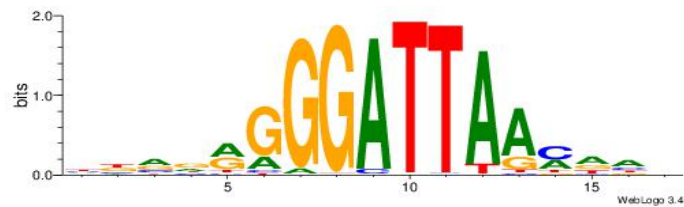
Motif ID: [UP00153](#)  
Motif name: Pitx1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0.0164951

Alignment:

```
HBVDRGGGATTAAMDHH  
---BGGGA-----
```

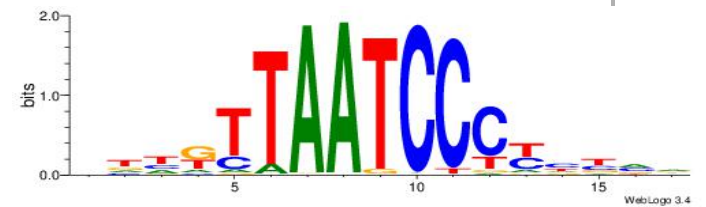
Original motif

Consensus sequence: HBVDRGGGATTAAMDHH



Reverse complement motif

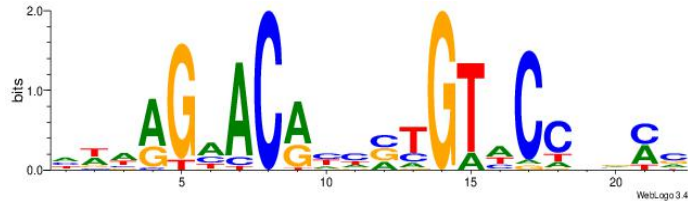
Consensus sequence: HHDRTTAATCCCKHBVH



**Dataset #: 3**      **Motif ID: 40**      **Motif name: Ar**

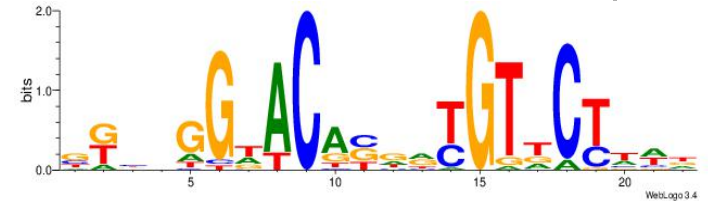
Original motif

Consensus sequence: HWDAGHACRHHVTGTHCCHVMV



Reverse complement motif

Consensus sequence: VRVDGGHACAVDDKGTGTHCTDWH



### Best Matches for Motif ID 40 (Highest to Lowest)

Motif ID:	<a href="#">UP00032</a>
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:	22
Similarity score:	0.0676991

Alignment:

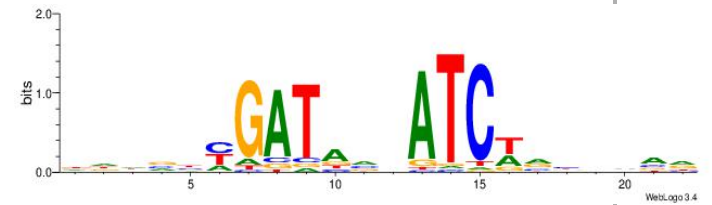
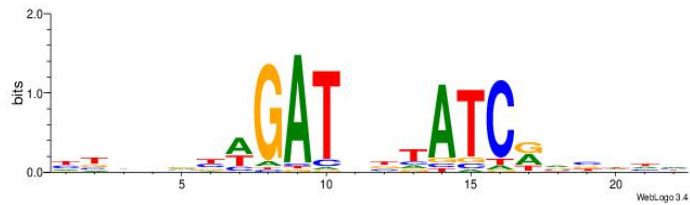
```
HBHDVBWGATHBTATCRVBHHH  
HWDAGHACRHHVTGTHCCHVMV
```

Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

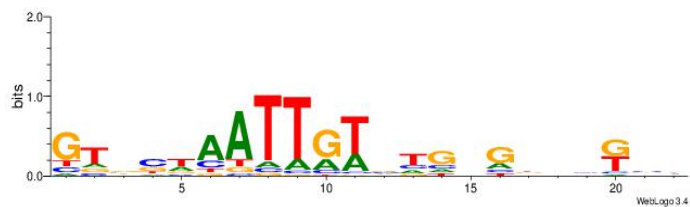
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



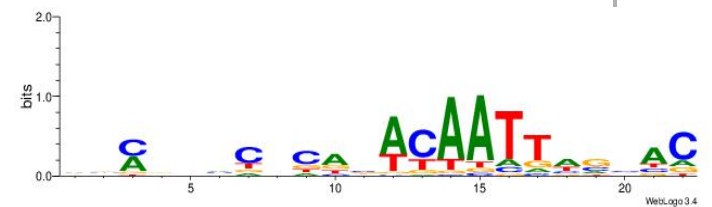
Motif ID: [UP00034](#)  
 Motif name: Sox7\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.0692146

Alignment:  
 VVYDDDCHCAVACAATTDBVAC  
 VRVDGGHACAVDDKGTGTHCTDWH

Original motif  
 Consensus sequence: GTVBDAATTGVTGHGDDHKVB



Reverse complement motif  
 Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_primary

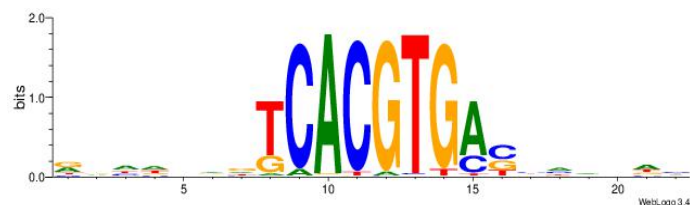
Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.0695612

**Alignment:**

DDHBHBSTCACGTGAHBBDDHHM  
 VRVDGGHACA VDDKGTHTDWH

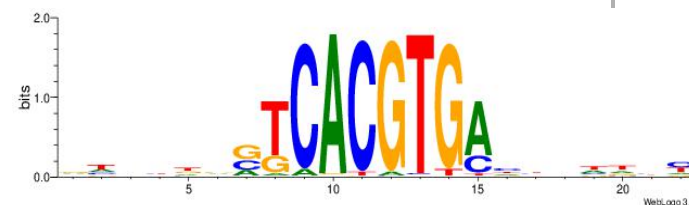
**Original motif**

Consensus sequence: RDHDBVDTCACGTGASBHVHHDH



**Reverse complement motif**

Consensus sequence: DDHBHBSTCACGTGAHBBDDHHM




---

Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.0771346

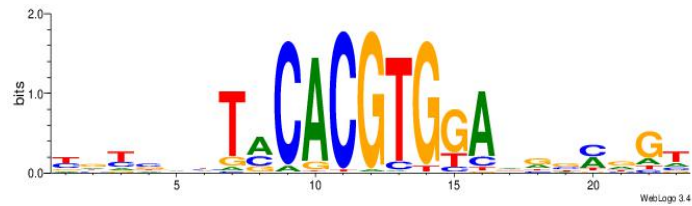


Alignment:

YDYBDHTMCACGTGGADDBMDGT  
-HWDAGHACRHHVTGTHCCHVMV

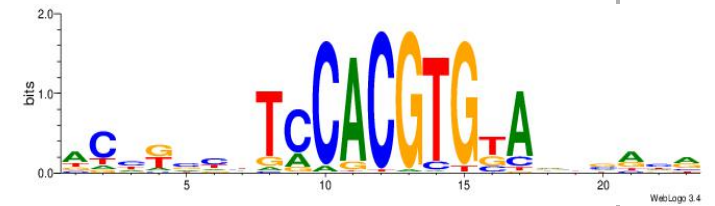
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBDTCCACGTGYAHHBMHM



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: Forward  
Position number: 1  
Number of overlap: 22  
Similarity score: 0.0772045

Alignment:

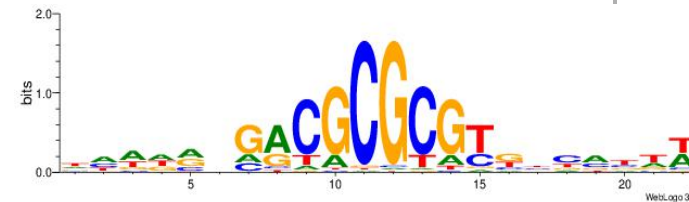
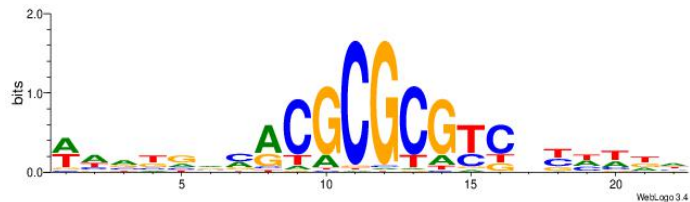
HDWHMHGACGCGCGTRBVVBHW  
VRVDGGHACAVDDKGTHTDWH

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



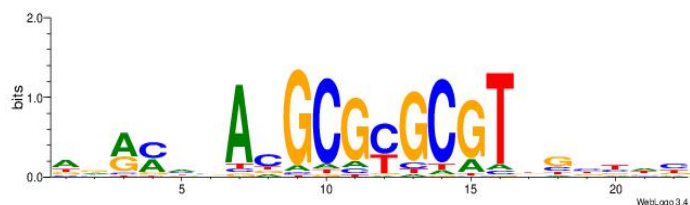
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.077433

**Alignment:**

DDRMHBACGCGYGCGTDGBBDB  
 VRVDGGHACAVDDKGTHTDWH

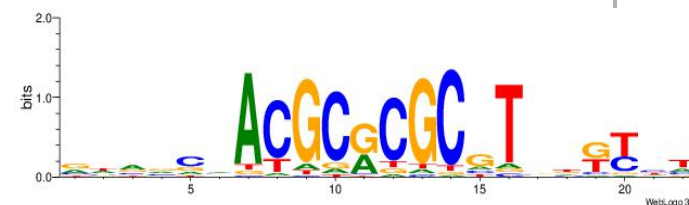
**Original motif**

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



**Reverse complement motif**

Consensus sequence: BDVBCDACGCKCGCTBHRKHDD



Motif ID: [UP00540](#)

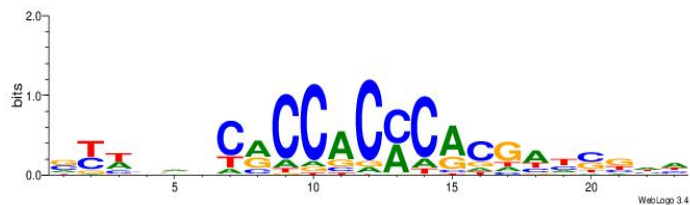
Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.0776897

**Alignment:**

VYWVVHCRCCACMCACGAHSBHH  
 -HWDAGHACRHHVTGTHCCHVMV

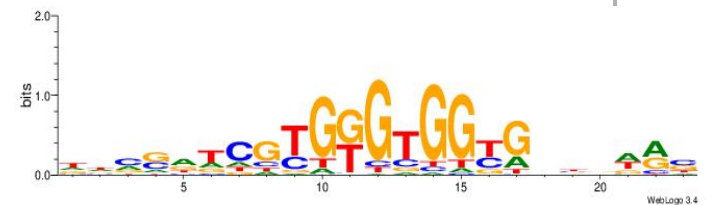
**Original motif**

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



**Reverse complement motif**

Consensus sequence: HHBSHTCGTGRGTGGK GDBVWMV




---

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: 1  
 Number of overlap: 22

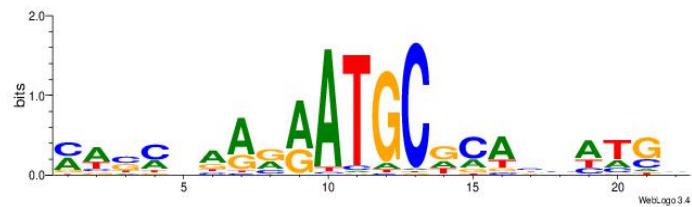
Similarity score: 0.0787977

Alignment:

MWSMBAARRATGCD CABHATGD  
HWDAGHACRHHVTGTHCCHVMV

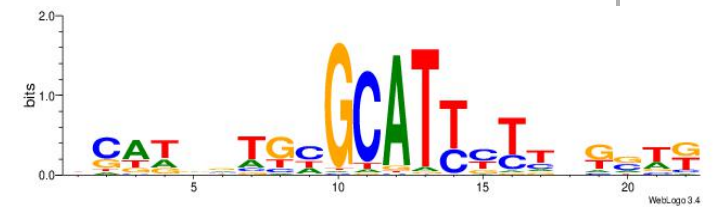
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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: 1  
Number of overlap: 22  
Similarity score: 0.0792723

Alignment:

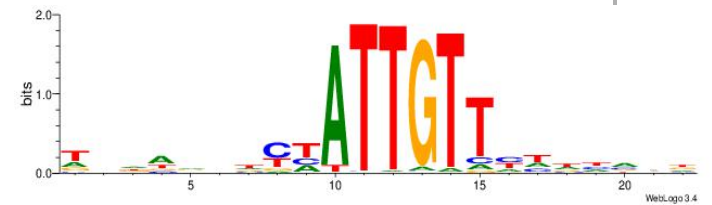
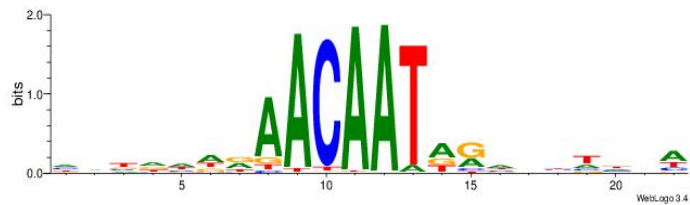
HHBDHDDAACAATDRHHHHHBW  
HWDAGHACRHHVTGTHCCHVMV

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 22  
 Similarity score: 0.0799314

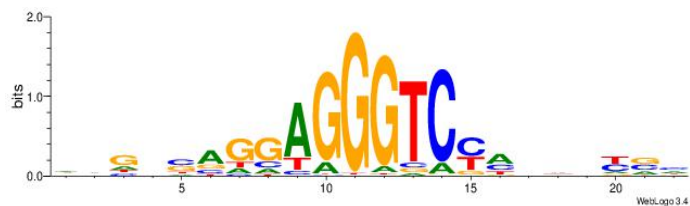
**Alignment:**

```

HVGVSAGGAGGGTCYHHHHYVH
HWDAGHACRHHVTGTHCCHVMV
  
```

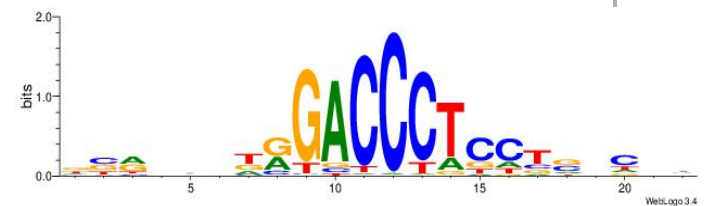
**Original motif**

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



**Reverse complement motif**

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



**Dataset #: 3**      **Motif ID: 41**      **Motif name: Arnt**

Original motif

Consensus sequence: CACGTG



Reverse complement motif

Consensus sequence: CACGTG



### Best Matches for Motif ID 41 (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: Forward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0

Alignment:

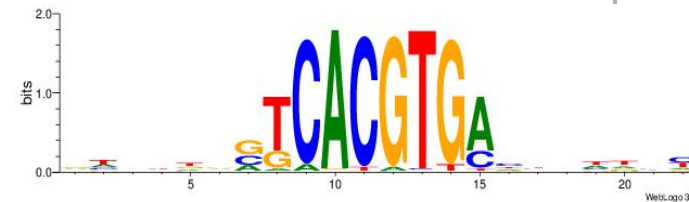
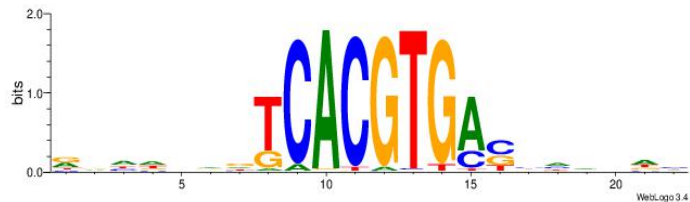
```
RDHDBVDTACGTGASBHVHDH  
-----CACGTG-----
```

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH

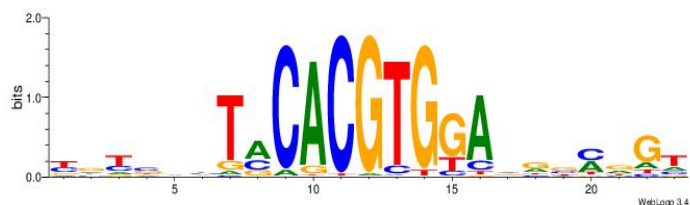


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.0026425

Alignment:  
 ACHRBHDTCCACGTGYAHBMMH  
 -----CACGTG-----

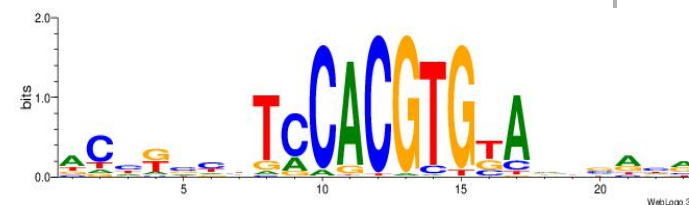
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00060](#)

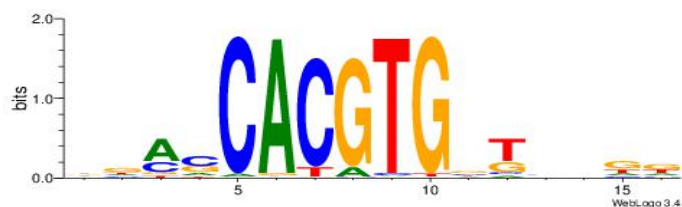
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	6
Similarity score:	0.0044422

Alignment:

```
DDASCACGTGBTBDD
----CACGTG-----
```

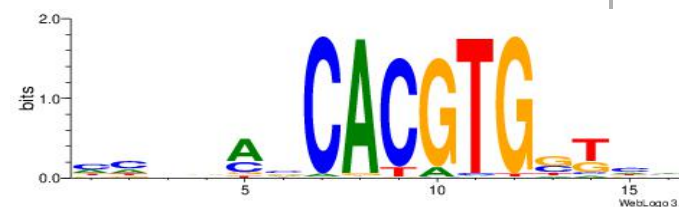
Original motif

Consensus sequence: DDASCACGTGBTBDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD




---

Motif ID:	<a href="#">UP00046</a>
Motif name:	Tcfe2a_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	6



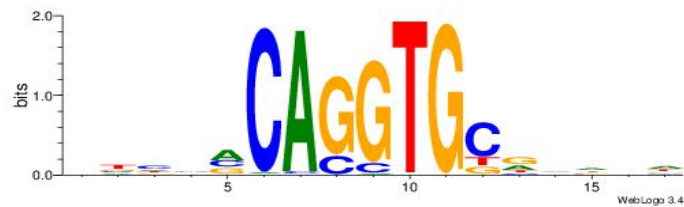
Similarity score: 0.0342153

Alignment:

DHDBHGCACCTGBDDVB  
-----CACGTG-----

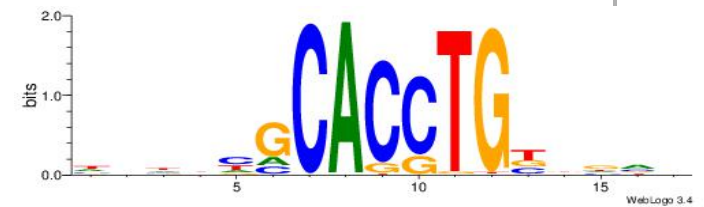
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00097](#)  
Motif name: Mtf1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0.0471928

Alignment:

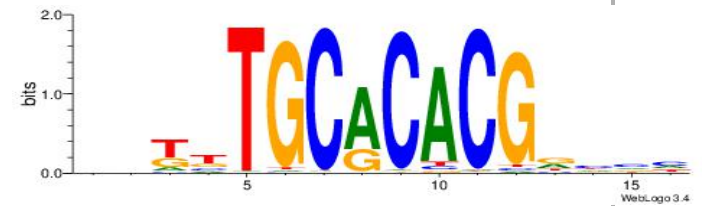
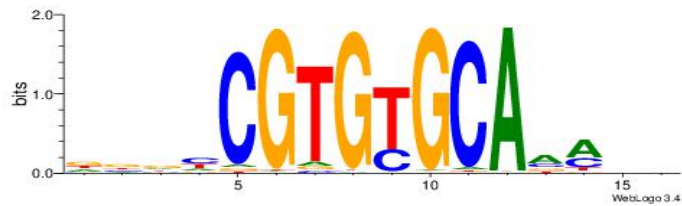
HDYTTGCACACGDHBH  
-----CACGTG--

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



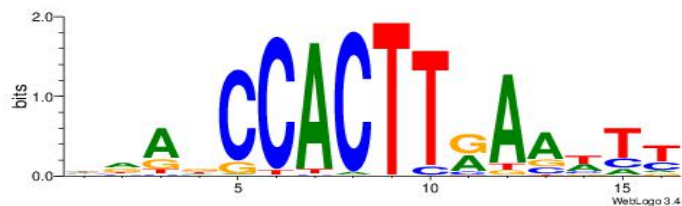
Motif ID: [UP00249](#)  
 Motif name: Nkx2-5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.0482749

**Alignment:**

HDADCCACTTTRAAWTT  
 -----CACGTG-----

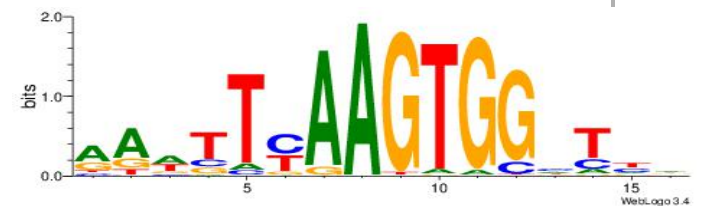
**Original motif**

Consensus sequence: HDADCCACTTTRAAWTT



**Reverse complement motif**

Consensus sequence: AAWTTMAAGTGGHTDH

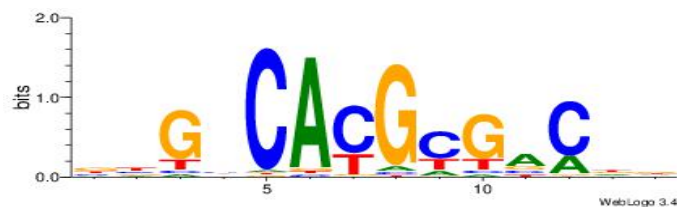


Motif ID: [UP00060](#)  
 Motif name: Max\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.0485437

Alignment:  
 BBGHCACGCGACDD  
 ----CACGTG----

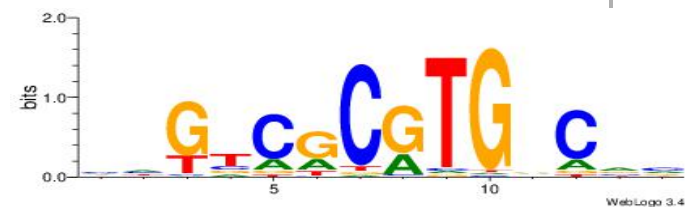
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTTCGCGTGDCVB

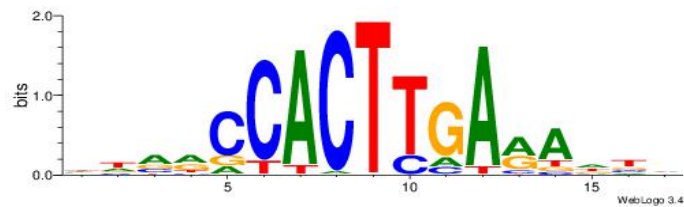


Motif ID: [UP00231](#)  
 Motif name: Nkx2-2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7

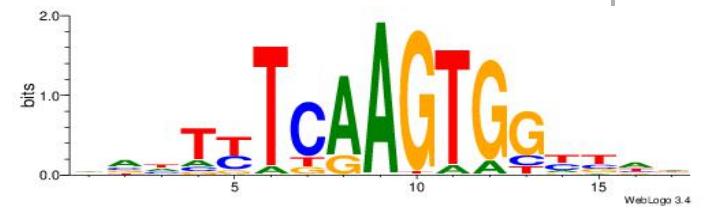
Number of overlap: 6  
Similarity score: 0.0497234

Alignment:  
DVDTKTCAAGTGGKBDH  
-----CACGTG-----

Original motif  
Consensus sequence: HDVRCCAAGTGGKBDH



Reverse complement motif  
Consensus sequence: DVDTKTCAAGTGGKBDH



---

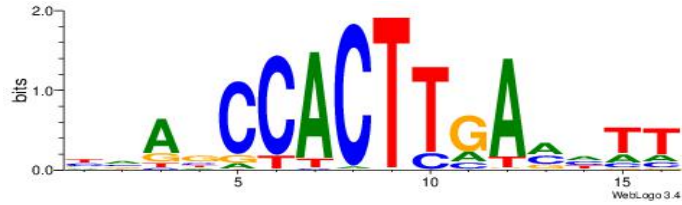
Motif ID: [UP00165](#)  
Motif name: Titf1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.0498919

Alignment:  
AAHYTCAAGTGGBTBV  
-----CACGTG-----

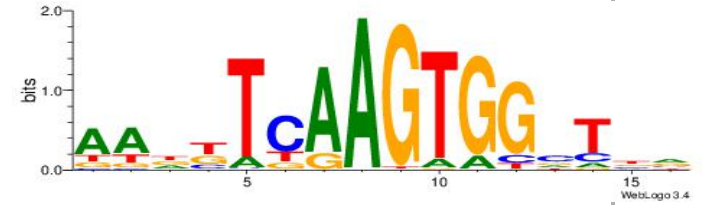
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



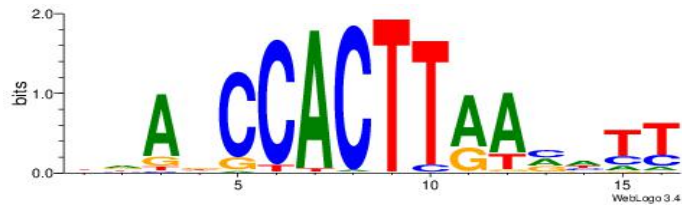
Motif ID: [UP00147](#)  
Motif name: Nkx2-6  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.0544601

Alignment:

```
DDADCCACTTAAVHTT  
-----CACGTG-----
```

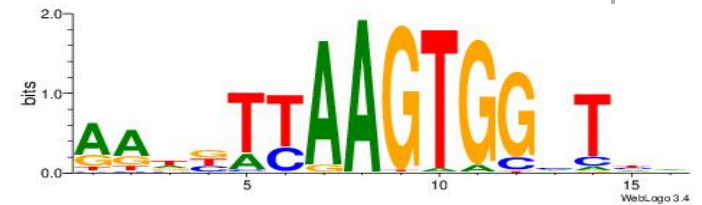
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



**Dataset #: 3**

**Motif ID: 42**

**Motif name: ArntAhr**

Original motif

Consensus sequence: YGCGTG



Reverse complement motif

Consensus sequence: CACGCM



### Best Matches for Motif ID 42 (Highest to Lowest)

Motif ID:	<a href="#">UP00400</a>
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	6
Similarity score:	0

Alignment:

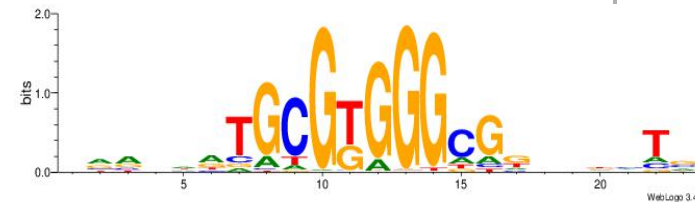
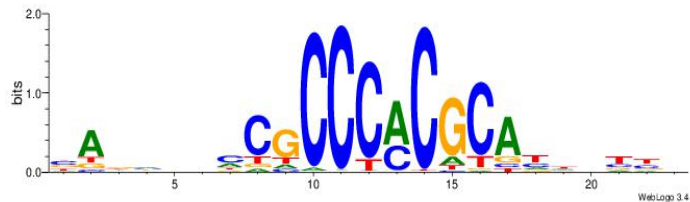
```
VVVDHHTGCGYGGGCGDHSVHHTB  
-----YGCGTG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB

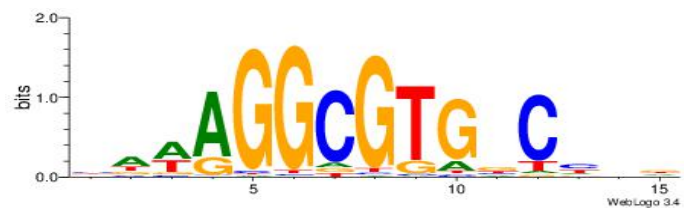


Motif ID: [UP00002](#)  
 Motif name: Sp4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.00183587

Alignment:  
 HHDGBCACGCCTWDB  
 -----CACGCM-----

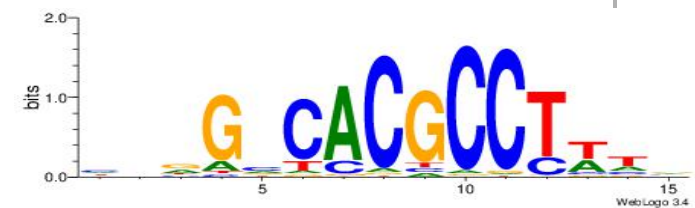
Original motif

Consensus sequence: BDWAGGCGTGCBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



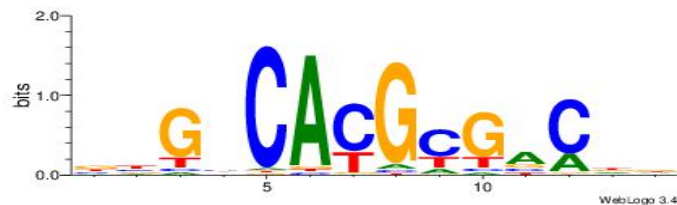
Motif ID: [UP00060](#)

Motif name: Max\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.00348048

Alignment:  
 HDGTCGCGTGDCVB  
 ----YGCGTG----

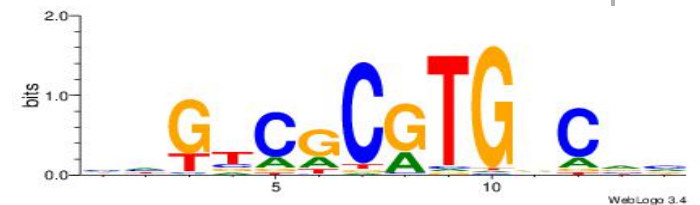
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB




---

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: 8  
 Number of overlap: 6



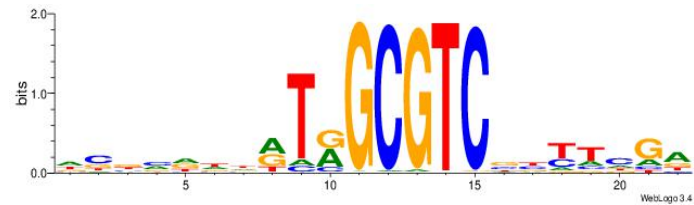
Similarity score: 0.00526158

Alignment:

TCDAMVBGACGCMAKDDDVBBB  
-----CACGCM-----

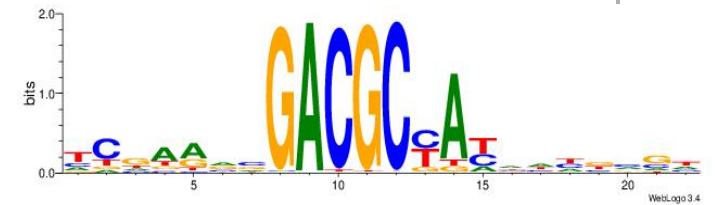
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMAKDDDVBBB



Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 8  
Number of overlap: 6  
Similarity score: 0.00558171

Alignment:

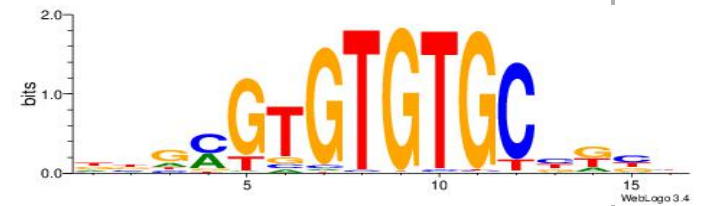
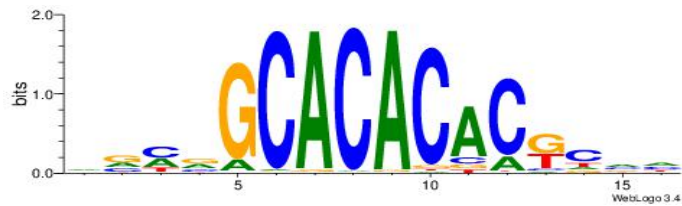
HBGYGTGTGTGCVRVD  
---YCGTG-----

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

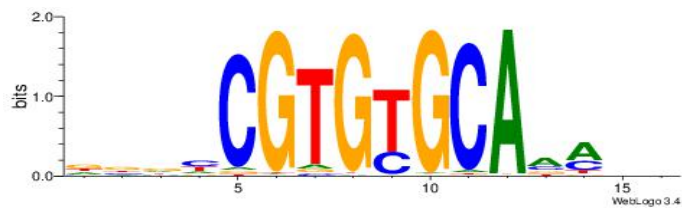


Motif ID: [UP00097](#)  
 Motif name: Mtf1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.00702416

Alignment:  
 HDYTTGCACACGDHBH  
 -----CACGCM--

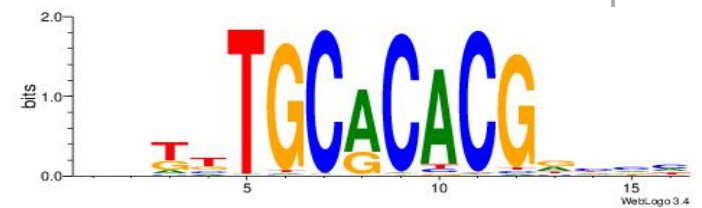
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



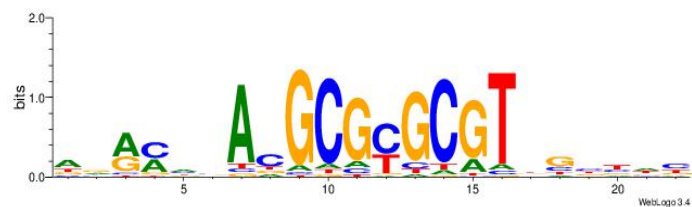
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 6  
 Similarity score: 0.0123233

Alignment:

DDRMHBACGCGYCGTGDGBBDB  
 -----YGCGTG-----

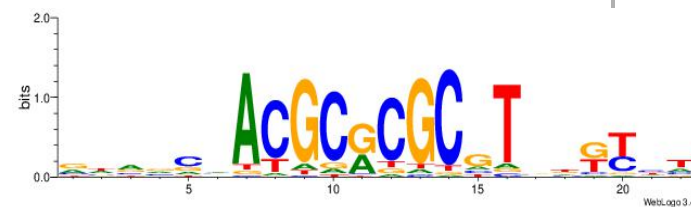
Original motif

Consensus sequence: DDRMHBACGCGYCGTGDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD

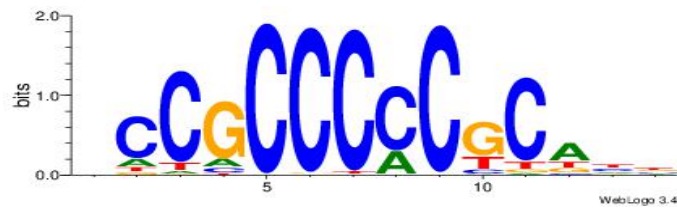


Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3

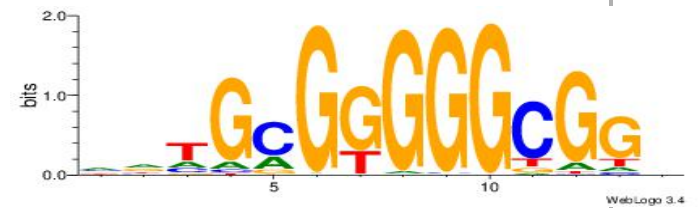
Number of overlap: 6  
Similarity score: 0.0141579

Alignment:  
HCCGCCCCCGCAHB  
-----CACGCM--

Original motif  
Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif  
Consensus sequence: VHTGCGGGGGCGGH



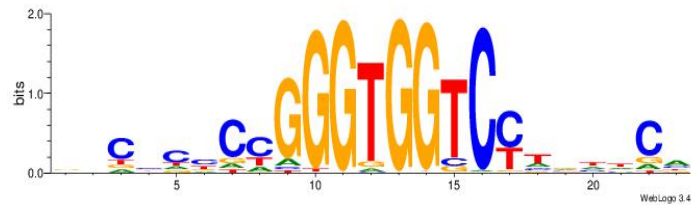
Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 11  
Number of overlap: 6  
Similarity score: 0.0144485

Alignment:  
BHCBCBCCGGGTGGTCYHVHDCH  
-----YCGTG-----

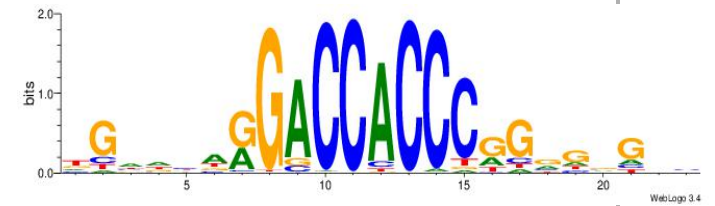
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



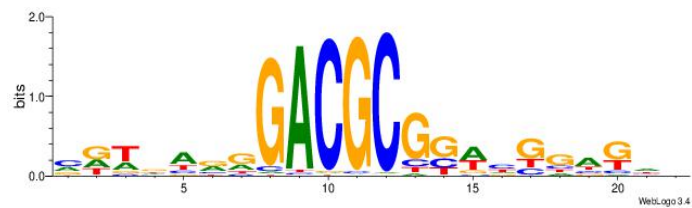
Motif ID: [UP00527](#)  
Motif name: Foxn4\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 10  
Number of overlap: 6  
Similarity score: 0.0172109

Alignment:

```
VHYTCCDWCCGCGTCMMTHWHV  
-----YGCGTG-----
```

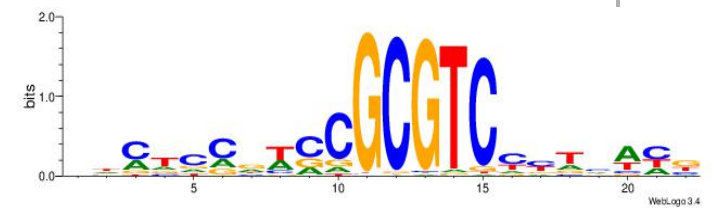
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



**Dataset #: 3**      **Motif ID: 43**      **Motif name: E2F1**

Original motif

Consensus sequence: TTTSGCGC



Reverse complement motif

Consensus sequence: GCGCSAAA



### Best Matches for Motif ID 43 (Highest to Lowest)

Motif ID:	<a href="#">UP00001</a>
Motif name:	E2F2_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0

Alignment:

HVBWYGGCGCCAADVBB

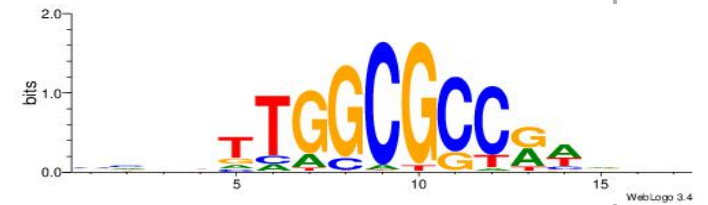
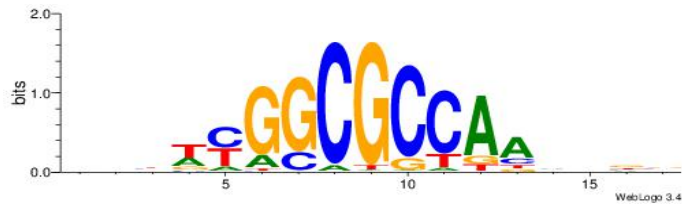
-----GCGCSAAA----

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

Consensus sequence: BBDDTTGGCGCCKWVVD

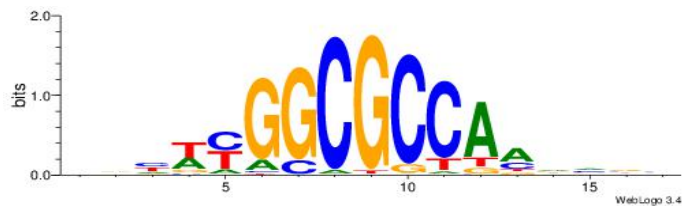


Motif ID: [UP00003](#)  
 Motif name: E2F3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.00182028

Alignment:  
 BBBDYTGGCGCKWDBD  
 ---TTTSGCGC-----

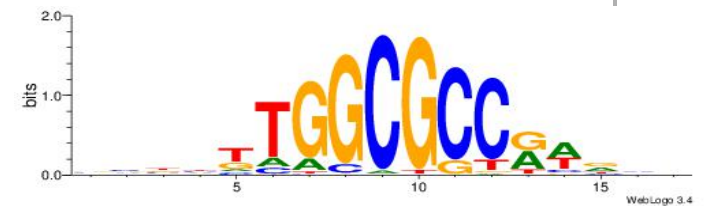
Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00072](#)

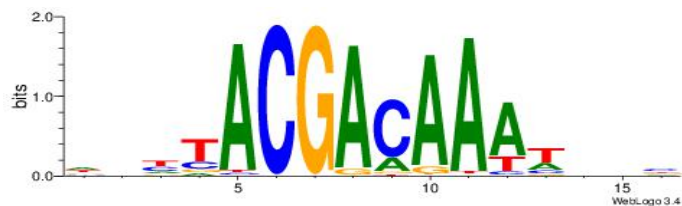
Motif name: IRC900814\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0237639

**Alignment:**

DDHTACGACAAAWDDDB  
 ----GCGCSAAA----

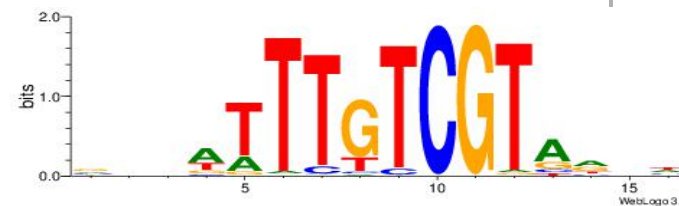
**Original motif**

Consensus sequence: DDHTACGACAAAWDDDB



**Reverse complement motif**

Consensus sequence: BHDWTTTGTTCGTAHDD




---

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: 3  
 Number of overlap: 8



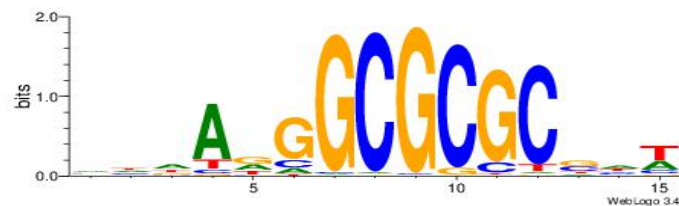
Similarity score: 0.0275636

Alignment:

WHSGCGCGCCHTDHB  
-----GCGCSAAA--

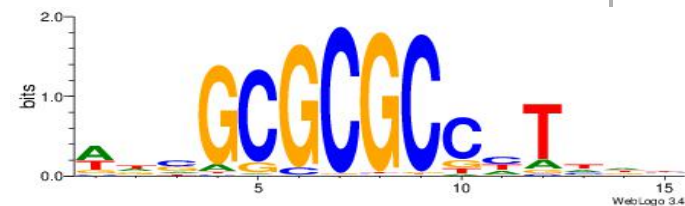
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



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: 9  
Number of overlap: 8  
Similarity score: 0.028109

Alignment:

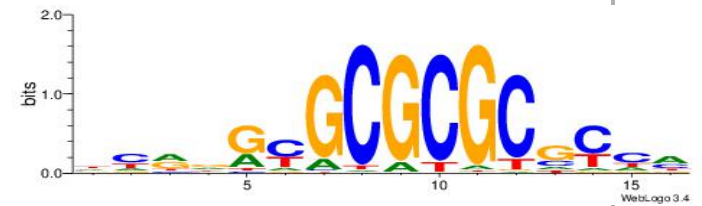
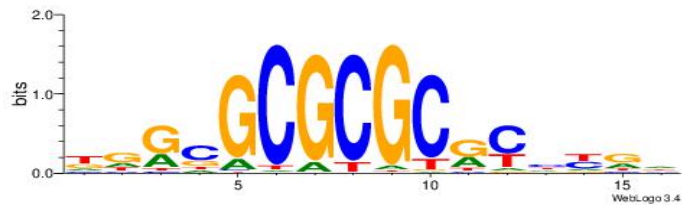
DMMDGMGCGCGCHD  
-----GCGCSAAA

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCHD

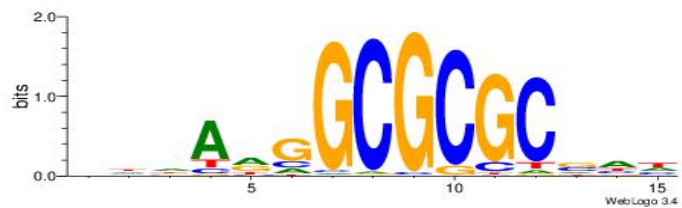


Motif ID: [UP00001](#)  
 Motif name: E2F2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 8  
 Similarity score: 0.0296302

Alignment:  
 HHVGC GCGCCKTDHB  
 -----GCGCSAAA--

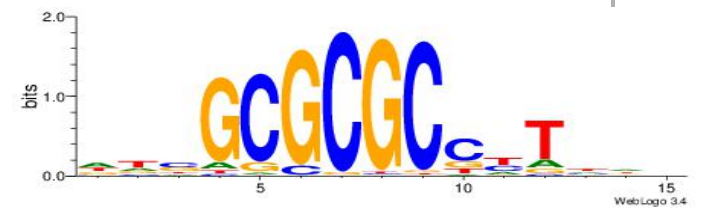
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGC GCGCCKTDHB



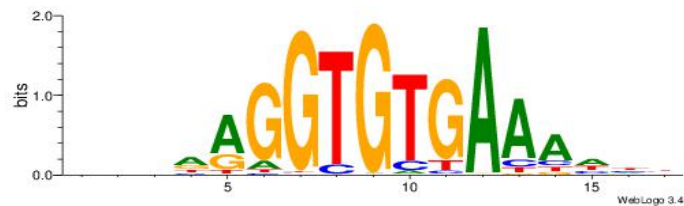
Motif ID: [UP00068](#)  
 Motif name: Eomes\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.0348969

Alignment:

BVHDAGGTGTGAAHHH  
 -----GCGCSAAA----

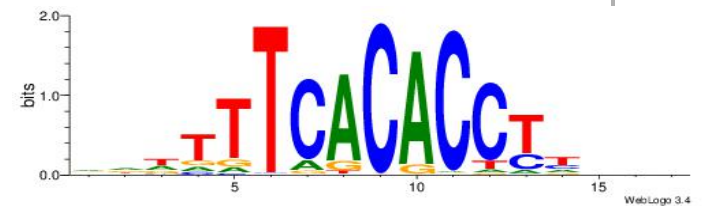
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV

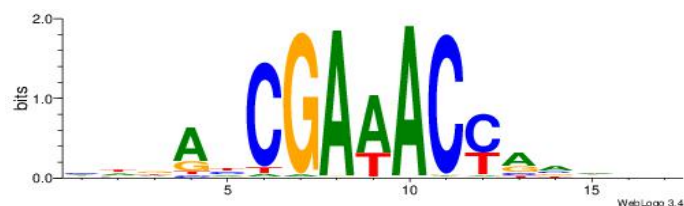


Motif ID: [UP00011](#)  
 Motif name: Irf6\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8

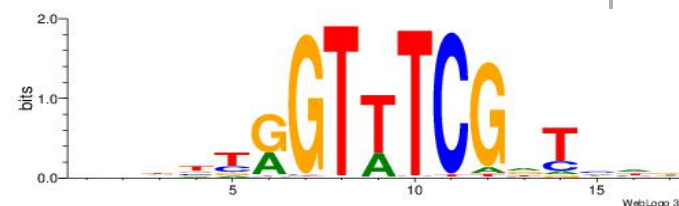
Number of overlap: 8  
Similarity score: 0.0368278

Alignment:  
DHDBTKGTTTCGHTHDD  
-----TTTSGCGC--

Original motif  
Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif  
Consensus sequence: DHDBTKGTTTCGHTHDD



---

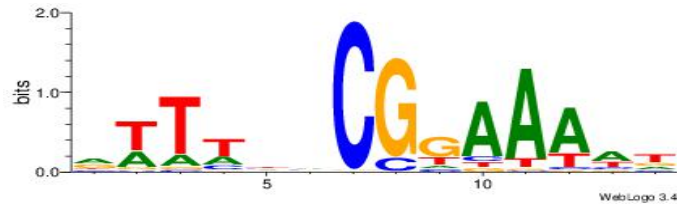
Motif ID: [UP00049](#)  
Motif name: Sp100\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0383813

Alignment:  
DWTTTCCGHHWAWD  
-----GCGCSAAA-

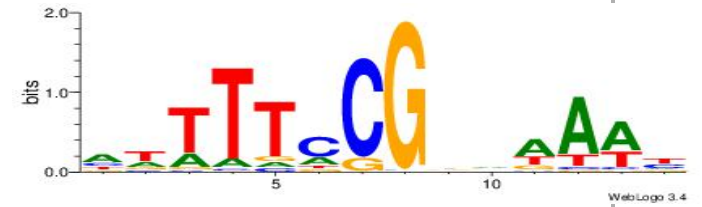
Original motif

Reverse complement motif

Consensus sequence: DWTWHHCGGAAAWD



Consensus sequence: DWTTTCCGHHWAWD



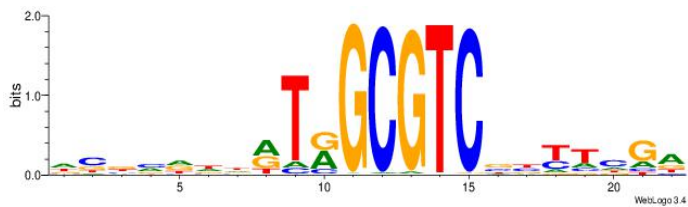
Motif ID: [UP00527](#)  
Motif name: Foxn4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 9  
Number of overlap: 8  
Similarity score: 0.0406002

Alignment:

```
DBBVDDDRTRGCGTCBBYTHGA  
-----TTTSGCGC-----
```

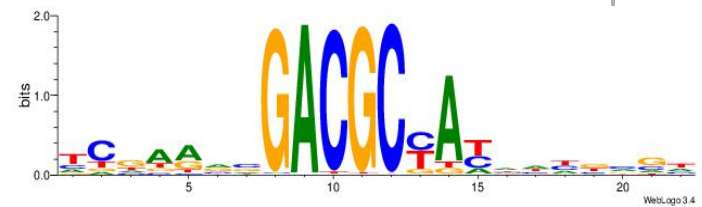
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMAKDDDVBBDD



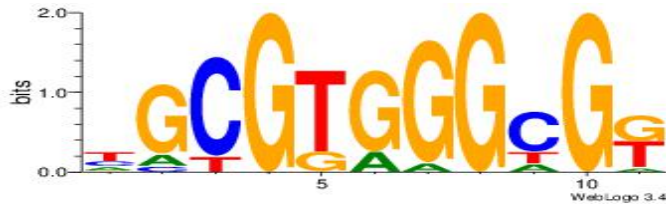
**Dataset #: 3**

**Motif ID: 44**

**Motif name: Egr1**

Original motif

Consensus sequence: HGCGTGGGCGK



Reverse complement motif

Consensus sequence: YCGCCCACGCH



### Best Matches for Motif ID 44 (Highest to Lowest)

Motif ID:	<a href="#">UP00400</a>
Motif name:	Zif268
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:	11
Similarity score:	0

Alignment:

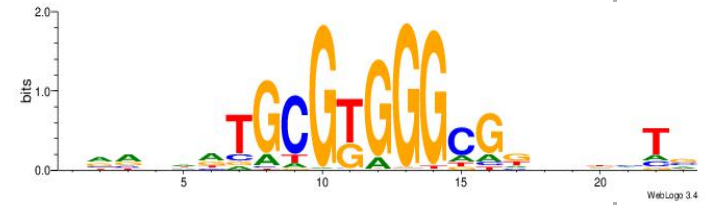
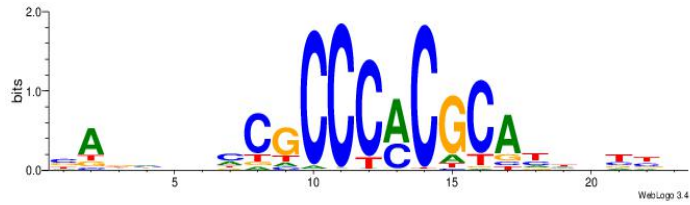
```
VVVDHHTGCGYGGGCGDHVHHTB  
-----HGCGTGGGCGK-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

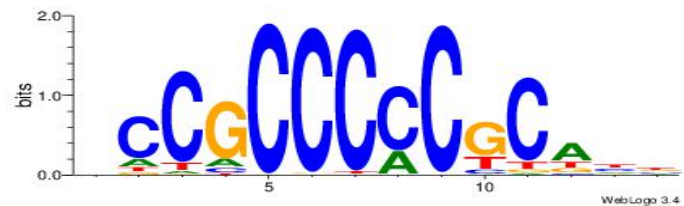


Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00727533

Alignment:  
 HCCGCCCCGCAHB  
 -YCGCCCACGCH--

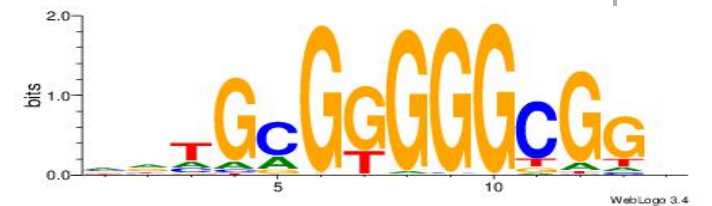
Original motif

Consensus sequence: HCCGCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGCGGH



Motif ID: [UP00538](#)

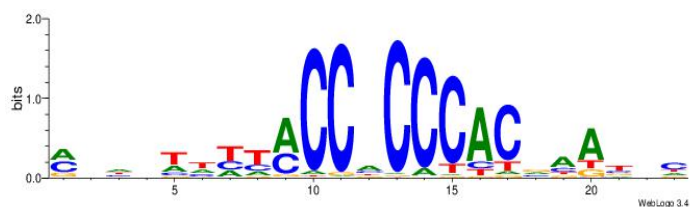
Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0262579

**Alignment:**

MHHHWHYTMCCCHCCCACVAABVH  
 -----YCGCCCACGCH----

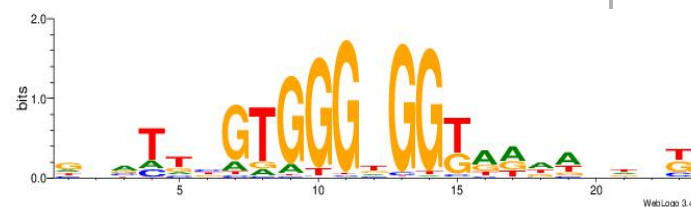
**Original motif**

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



**Reverse complement motif**

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY




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Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 11  
 Number of overlap: 11



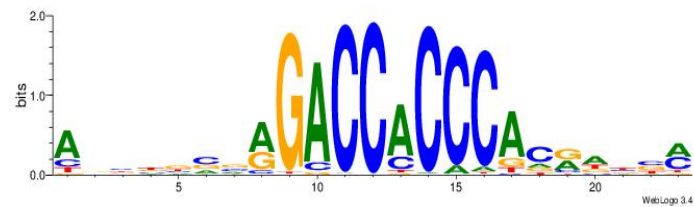
Similarity score: 0.0297053

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT  
--HGCGTGGGCGK-----

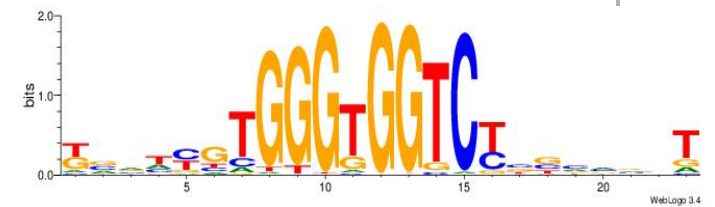
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 11  
Similarity score: 0.0318144

Alignment:

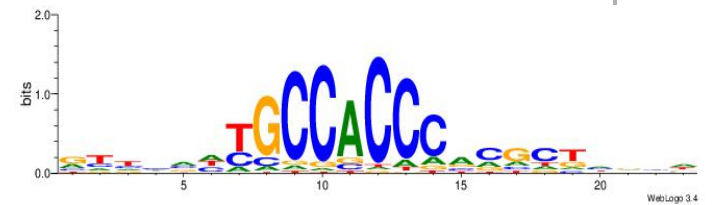
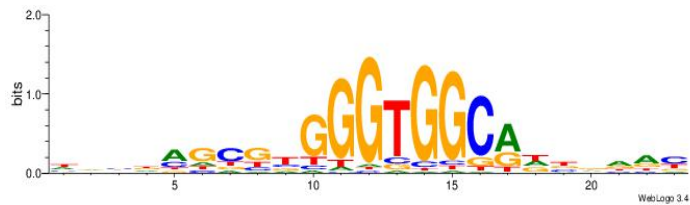
HVBDAGCGBGGGTGGCRDBDDDB  
----HGCGTGGGCGK-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



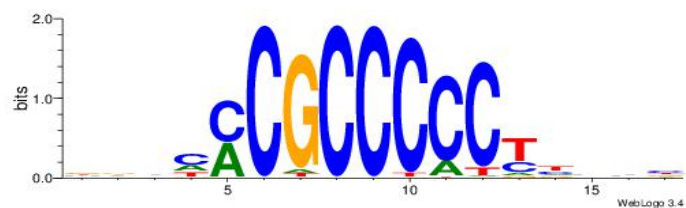
Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0345009

**Alignment:**

BVVHAGGGGGCGRDHBB  
 --HGCGTGGGCGK----

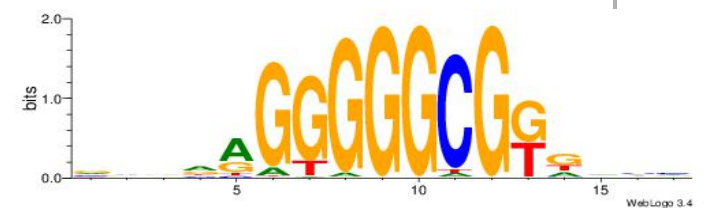
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHBB



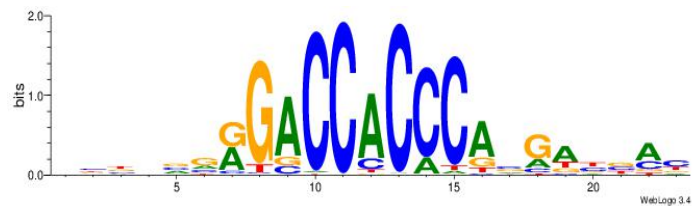
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0353502

**Alignment:**

BTBVTCTVGGGTGGTCMVVDVBB  
 ---HGCCTGGGCGK-----

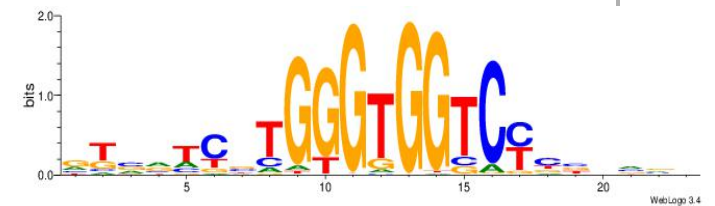
**Original motif**

Consensus sequence: BBBDVVRGACCACCAVGABBAB



**Reverse complement motif**

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



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: 3

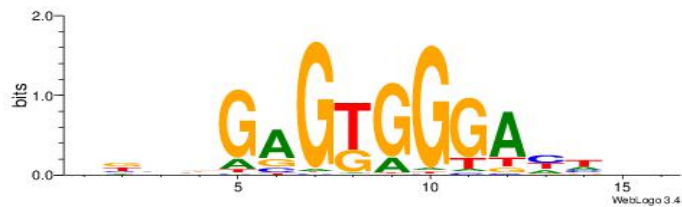
Number of overlap: 11  
Similarity score: 0.0360229

Alignment:

BHHDTCCCACTCBDBV  
--YCGCCACGCH---

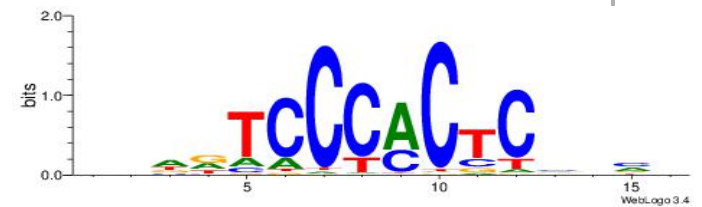
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV



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: Backward  
Position number: 5  
Number of overlap: 11  
Similarity score: 0.0362743

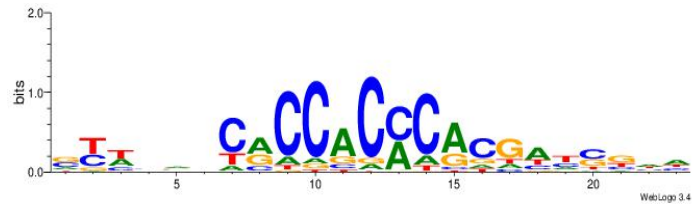
Alignment:

VYWVVHCRCCACMCACGAHSBHH  
-----YCGCCACGCH-----

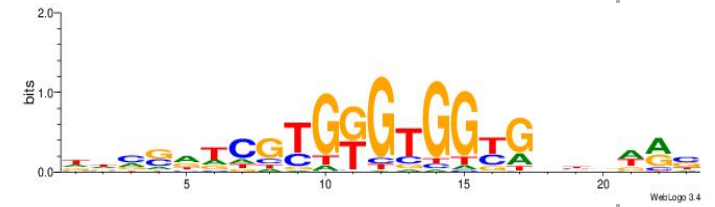
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGDDBVWMV



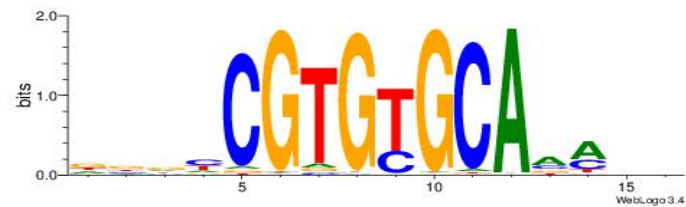
Motif ID: [UP00097](#)  
Motif name: Mtf1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0386944

Alignment:

```
HDYTTGCACACGDHBH  
---YCGCCACGCH--
```

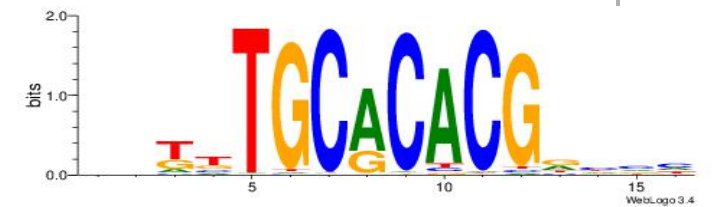
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



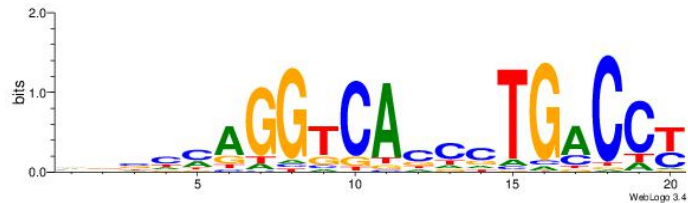
**Dataset #: 3**

**Motif ID: 45**

**Motif name: ESR1**

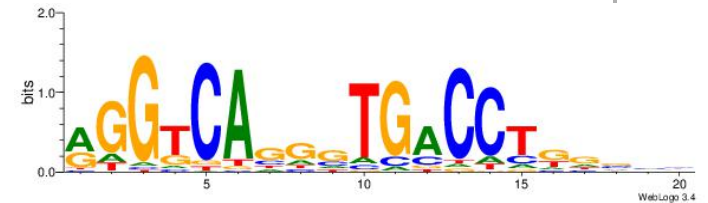
Original motif

Consensus sequence: VDBHMAGGTCACCCTGACCY



Reverse complement motif

Consensus sequence: MGGTCAGGGTGACCTRDBHV



### Best Matches for Motif ID 45 (Highest to Lowest)

Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 20  
Similarity score: 0.0658405

Alignment:

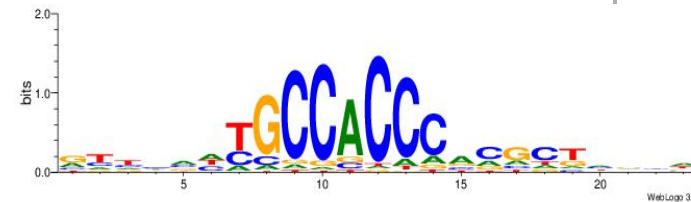
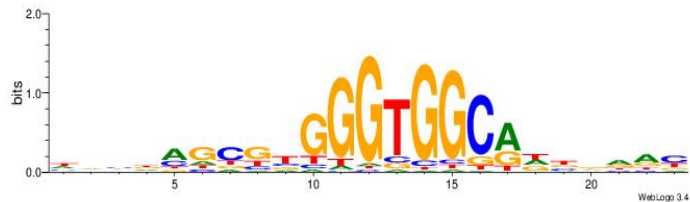
```
BDDHVDKGCCACCCVCGCTDBVH  
VDBHMAGGTCACCCTGACCY---
```

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00098](#)  
 Motif name: Rfx3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 20  
 Similarity score: 0.0689748

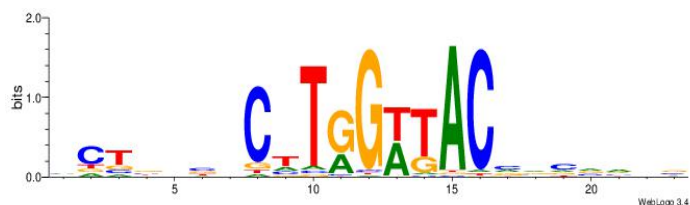
**Alignment:**

```

BDBBVBVGTAWCCAAGVBHBAGB
VDBHMAGGTCACCCTGACCY---
  
```

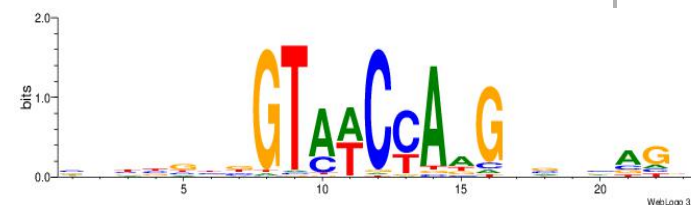
**Original motif**

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



**Reverse complement motif**

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00539](#)

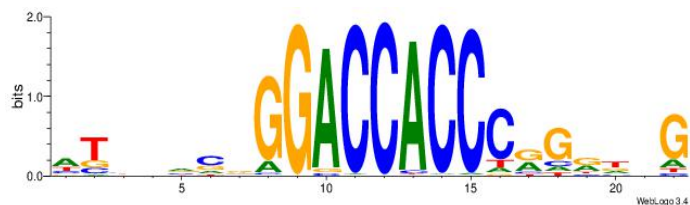
Motif name: Gli2\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 20  
 Similarity score: 0.0701247

**Alignment:**

CBDMCMGGGTGGTCCHVBVBAH  
 MGGTCAGGGTGACCTRDBHV--

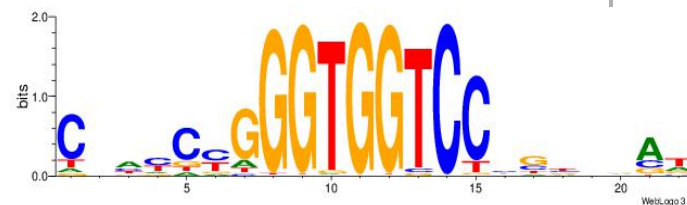
**Original motif**

Consensus sequence: HTBVVVDGGACCACCRGRDBG



**Reverse complement motif**

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH




---

Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 20



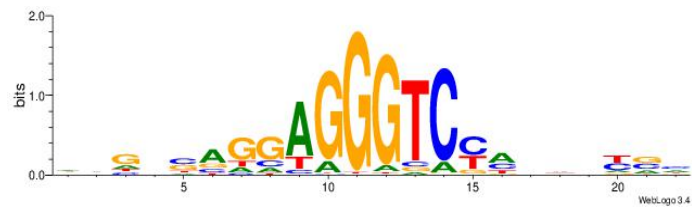
Similarity score: 0.0711267

Alignment:

HVGVSAGGAGGGTCYHHHHYVH  
MGGTCAGGGTGACCTRDBHV--

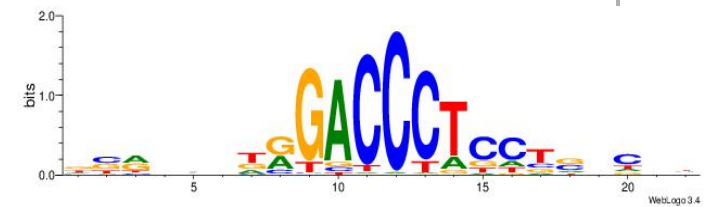
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00540](#)  
Motif name: Gli3\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 20  
Similarity score: 0.0742427

Alignment:

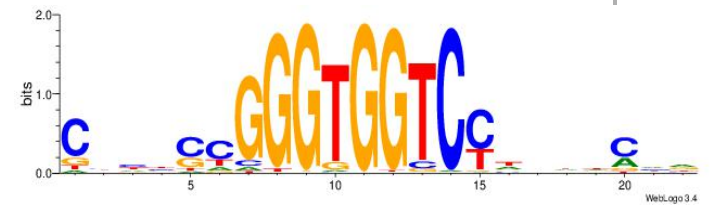
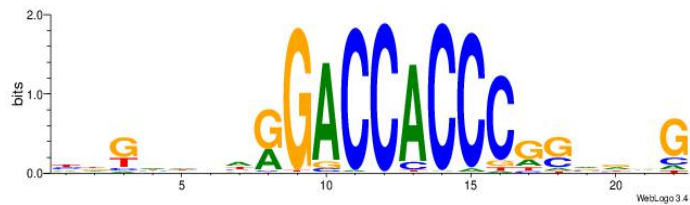
CVHBSCGGGTGGTCMHVHHCDH  
-VDBHMAGGTCACCCTGACCY-

Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG

Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



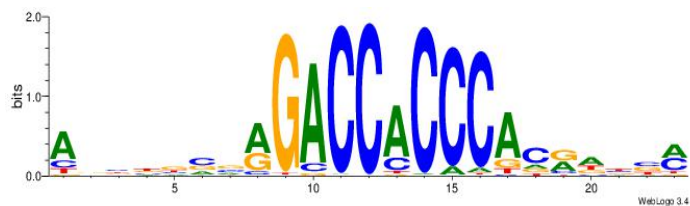
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0747053

**Alignment:**

ABBBBVVRGACCACCCACRDBBM  
 --VDBHMAGGTCACCCTGACCY-

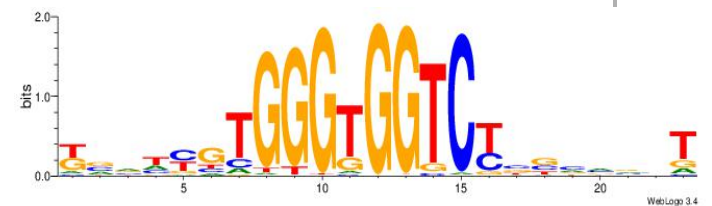
**Original motif**

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



**Reverse complement motif**

Consensus sequence: YBVDMGTGGGTGGTCKVVVBVBBT



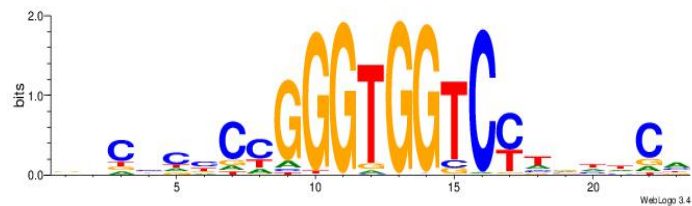
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 20  
 Similarity score: 0.0749165

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH  
 ---VDBHMAGGTCACCCCTGACCY

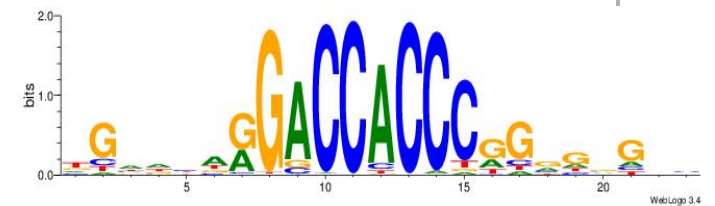
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2

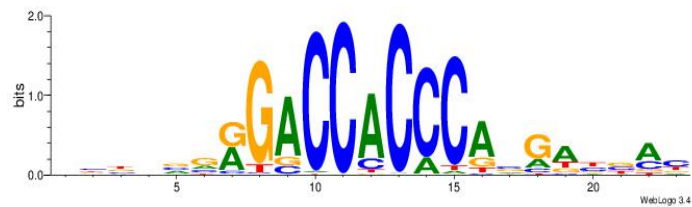
Number of overlap: 20  
Similarity score: 0.0759307

Alignment:

BBBDVVRGACCACCCAVGABBAB  
-VDBHMAGGTCACCCTGACCY--

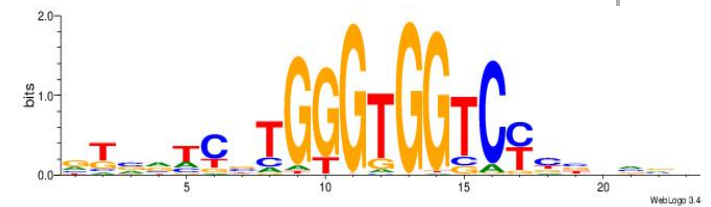
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



---

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

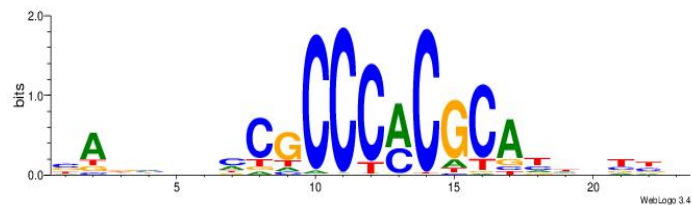
Alignment:

VVVDHHTGCGYGGGCGDHVHHTB  
-MGGTCAGGGTGACCTRDBHV--

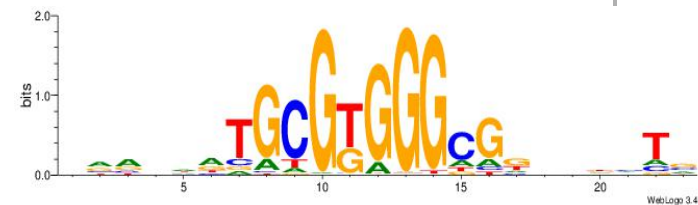
Original motif

Reverse complement motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Consensus sequence: VVDHHTGCGYGGGCGDHHVHTB



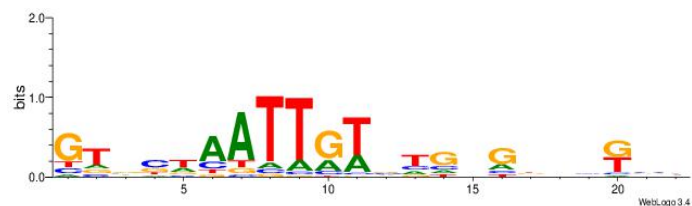
Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.0780113

Alignment:

GTVBDAATTGTVTGHGDDHKVB  
VDBHMAGGTCACCCTGACCY--

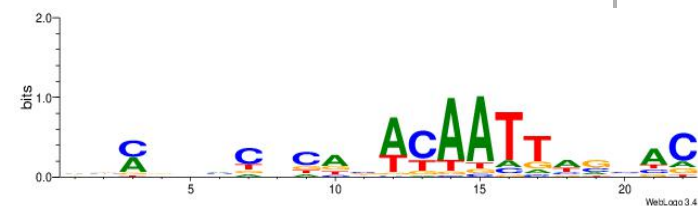
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

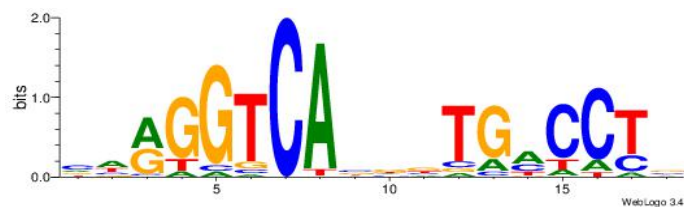
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



**Dataset #: 3**      **Motif ID: 46**      **Motif name: ESR2**

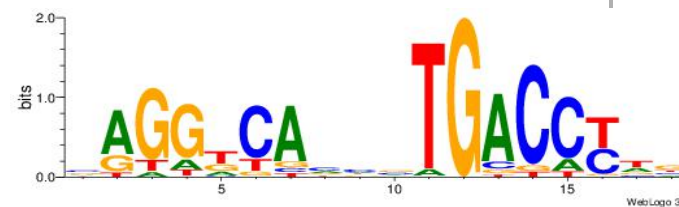
Original motif

Consensus sequence: VHRGGTCABDBTGMCCCTB



Reverse complement motif

Consensus sequence: BAGGYCABHBTGACCKHV



### Best Matches for Motif ID 46 (Highest to Lowest)

Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 18  
Similarity score: 0.0443894

Alignment:

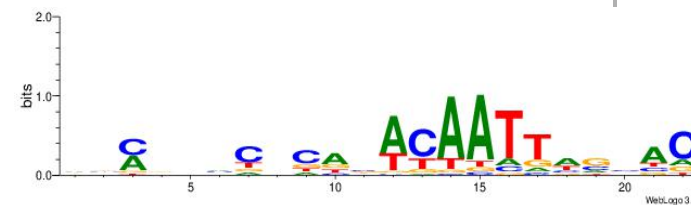
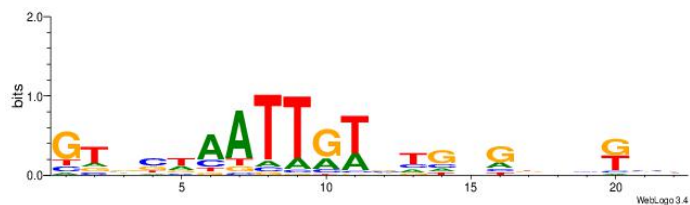
```
GTVBDAATTGTVTGHGDDHKVB  
---VHRGGTCABDBTGMCCCTB-
```

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

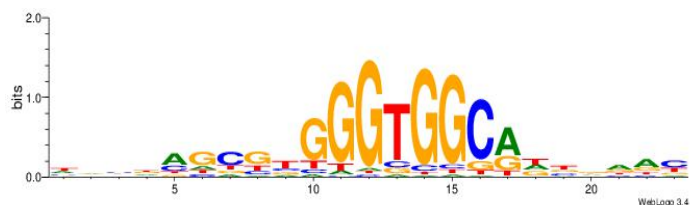


Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 18  
 Similarity score: 0.049219

Alignment:  
 BDDHVDKGCCACCCVCGCTDBVH  
 ---VHRGGTCABDBTGMCTB--

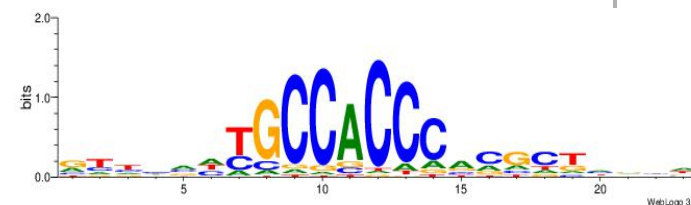
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00050](#)

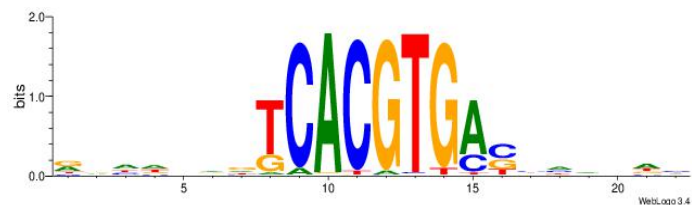
Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 18  
 Similarity score: 0.0509182

**Alignment:**

DDHBHBSTCACGTGAHBBDHHM  
 --VHRGGTCABDBTGMCCTB--

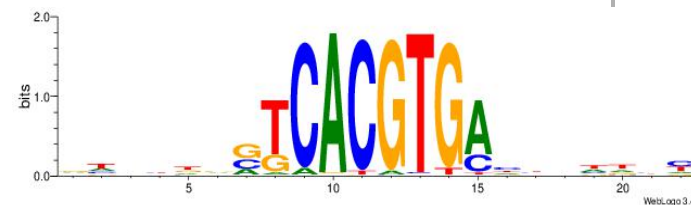
**Original motif**

Consensus sequence: RDHDBVDTCACGTGASBHVHDDH



**Reverse complement motif**

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM




---

Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 18



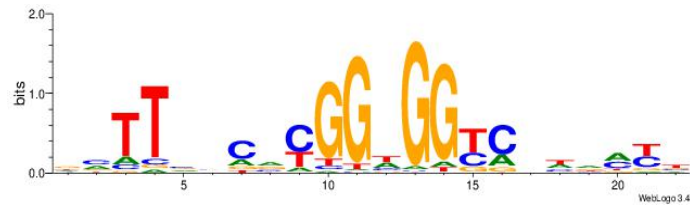
Similarity score: 0.0527075

Alignment:

DVTTVVCVYGGHGGYCHHDMYB  
-BAGGYCABHBTGACCKHV---

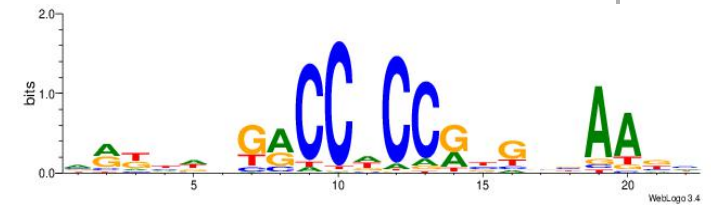
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHV



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: 2  
Number of overlap: 18  
Similarity score: 0.0541044

Alignment:

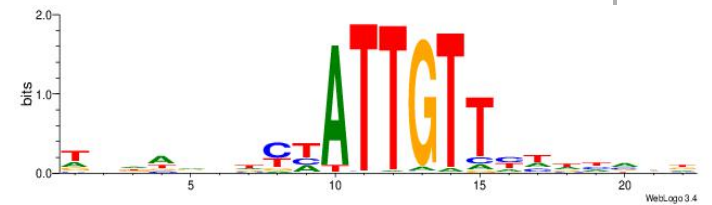
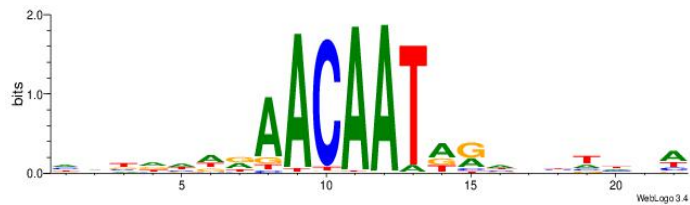
WBHHHHHMDATTGTTDHDVHH  
-BAGGYCABHBTGACCKHV---

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH



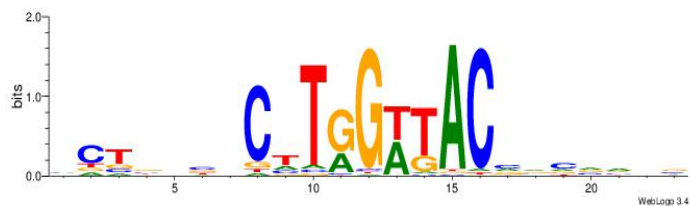
Motif ID: [UP00098](#)  
 Motif name: Rfx3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 18  
 Similarity score: 0.0541108

**Alignment:**

VCTBHBVCTTGGWTACVVVVVDB  
 --BAGGYCABHBTGACCKHV---

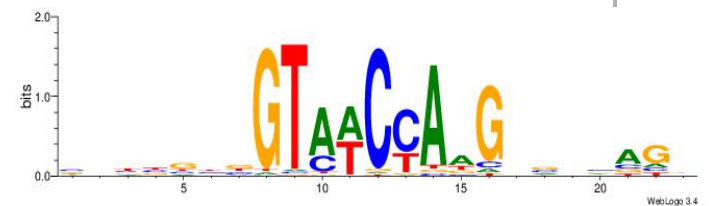
**Original motif**

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



**Reverse complement motif**

Consensus sequence: BDBBVGTAWCCAAGVBHBAGB



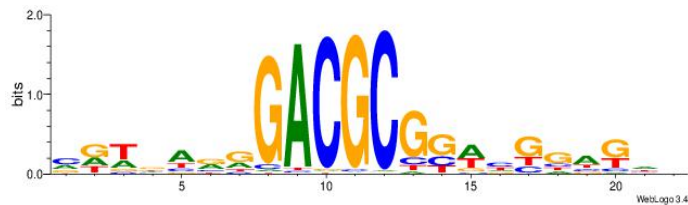
Motif ID: [UP00527](#)  
 Motif name: Foxn4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 18  
 Similarity score: 0.0543733

**Alignment:**

VDWDARRGACGCGGWHGGAKHV  
 ---VHRGGTCABDBTGMCCTB-

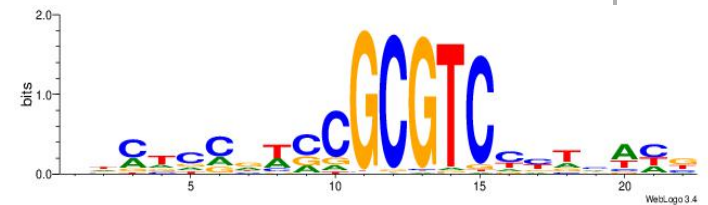
**Original motif**

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



**Reverse complement motif**

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5

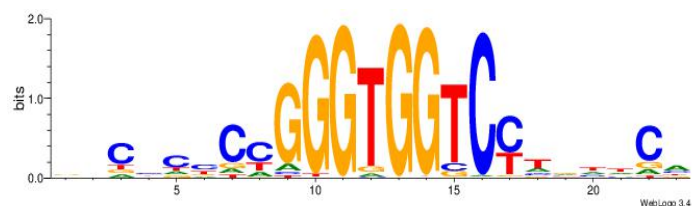
Number of overlap: 18  
Similarity score: 0.0548087

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH  
-BAGGYCABHBTGACCKHV-----

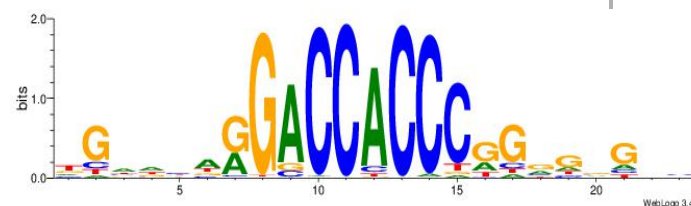
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



---

Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 5  
Number of overlap: 18  
Similarity score: 0.055453

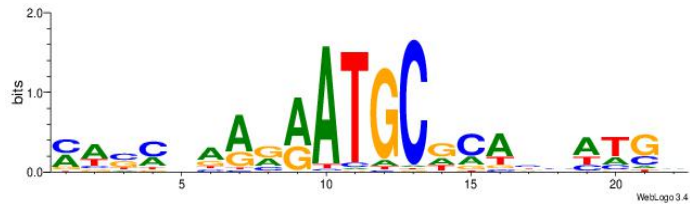
Alignment:

DCATDBTGHGCATKMTTBRSWR  
----VHRGGTCABDBTGMCCCTB

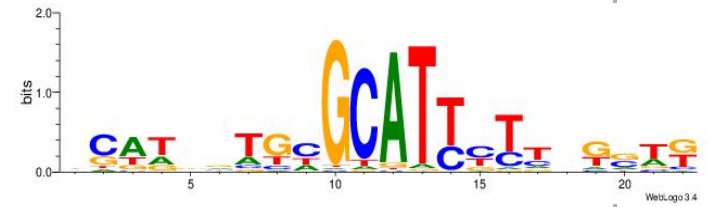
Original motif

Reverse complement motif

Consensus sequence: MWSMBAARRATGDCABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



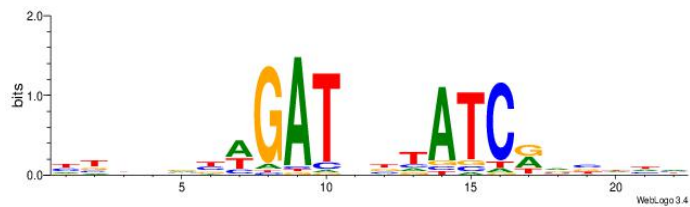
Motif ID: [UP00032](#)  
Motif name: Gata3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 18  
Similarity score: 0.0566426

Alignment:

```
HBHDVBWGATHBTATCRVBHHH  
-VHRGGTCABDBTGMCTB----
```

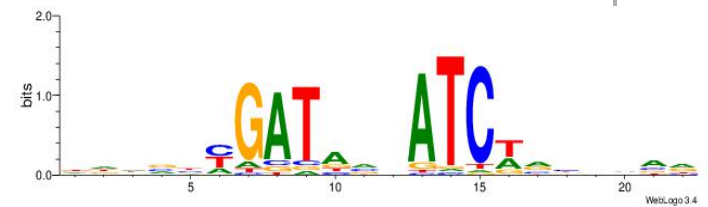
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBMBGATAVHATCWVVDHVH



**Dataset #: 3**      **Motif ID: 47**      **Motif name: Esrrb**

Original motif

Consensus sequence: CACGTG



Reverse complement motif

Consensus sequence: CACGTG



### Best Matches for Motif ID 47 (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: Forward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0

Alignment:

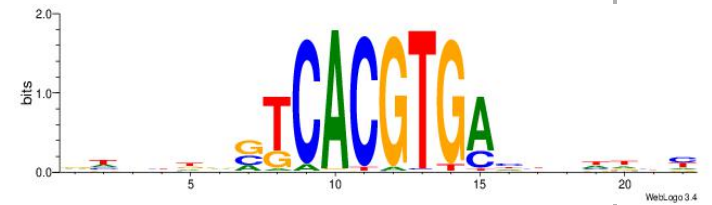
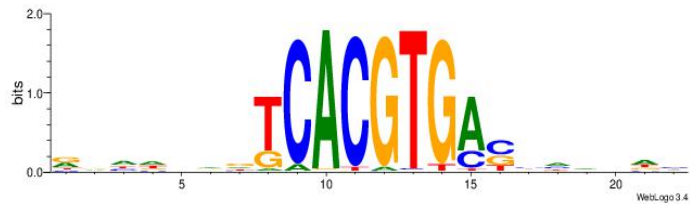
```
RDHDBVDTACGTGASBHVHDH  
-----CACGTG-----
```

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH

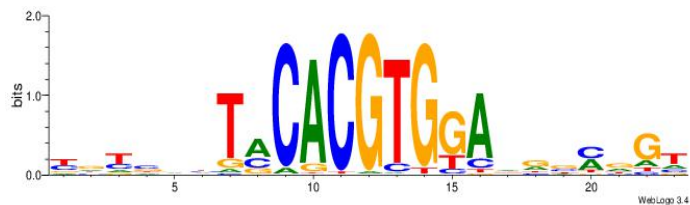


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 6  
 Similarity score: 0.0026425

Alignment:  
 ACHRBHDTCCACGTGYAHBMHM  
 -----CACGTG-----

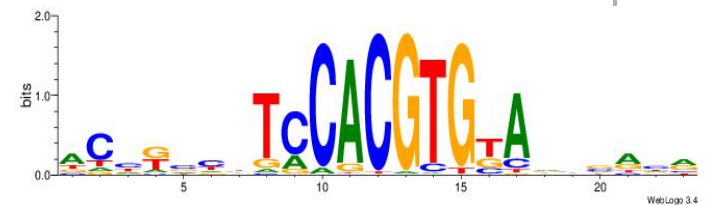
Original motif

Consensus sequence: YDYPDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMHM



Motif ID: [UP00060](#)

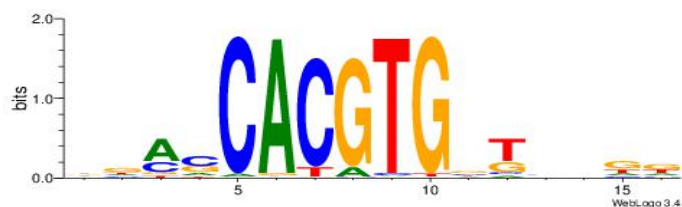
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	6
Similarity score:	0.0044422

Alignment:

```
DDASCACGTGBTBVDD
----CACGTG-----
```

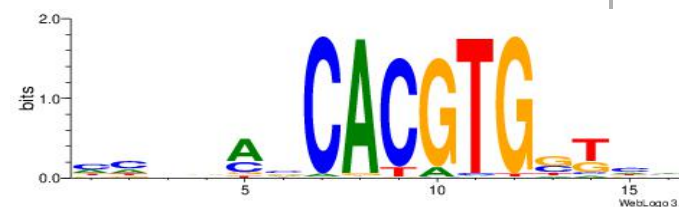
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD




---

Motif ID:	<a href="#">UP00046</a>
Motif name:	Tcfe2a_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	6



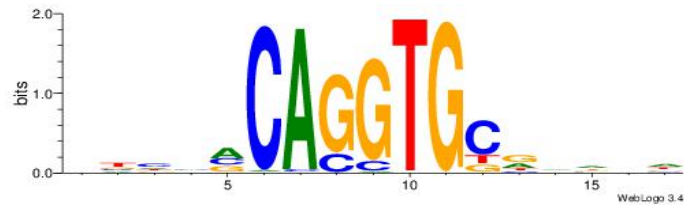
Similarity score: 0.0342153

Alignment:

DHDBHGCACCTGBDDVB  
-----CACGTG-----

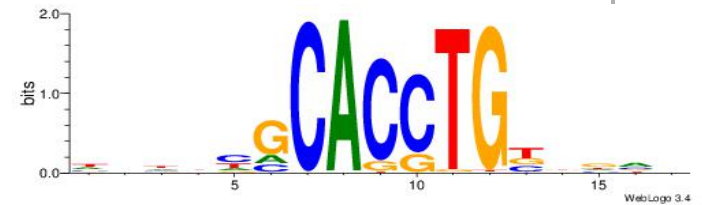
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00097](#)  
Motif name: Mtf1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0.0471928

Alignment:

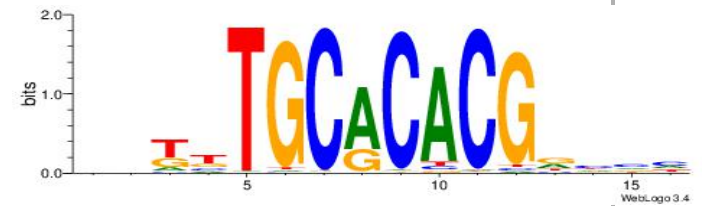
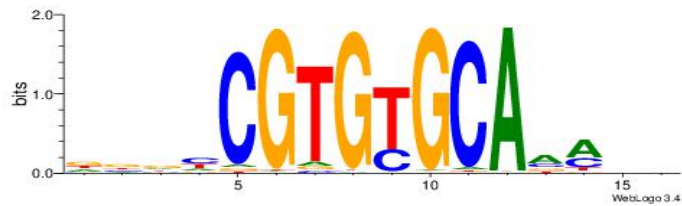
HDYTTGCACACGDHBH  
-----CACGTG--

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



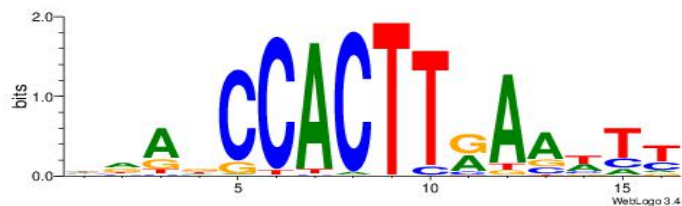
Motif ID: [UP00249](#)  
 Motif name: Nkx2-5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.0482749

**Alignment:**

HDADCCACTTTRAAWTT  
 -----CACGTG-----

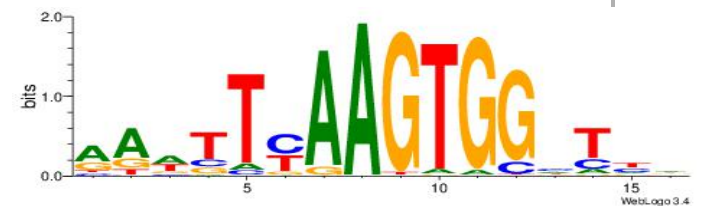
**Original motif**

Consensus sequence: HDADCCACTTTRAAWTT



**Reverse complement motif**

Consensus sequence: AAWTTMAAGTGGHTDH

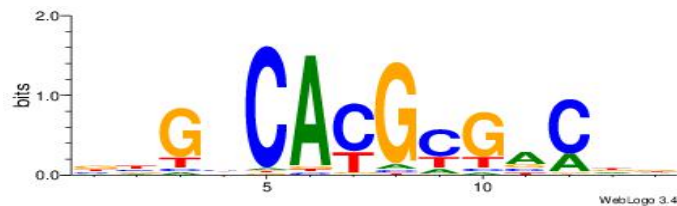


Motif ID: [UP00060](#)  
 Motif name: Max\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.0485437

Alignment:  
 BBGHCACGCGACDD  
 ----CACGTG----

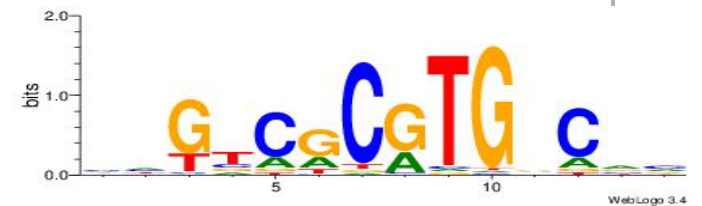
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTTCGCGTGDCVB

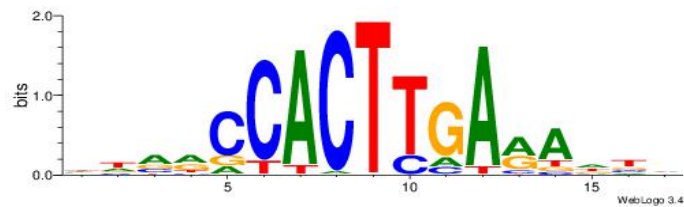


Motif ID: [UP00231](#)  
 Motif name: Nkx2-2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7

Number of overlap: 6  
Similarity score: 0.0497234

Alignment:  
DVDTKTCAAGTGGKBDH  
-----CACGTG-----

Original motif  
Consensus sequence: HDVRCCAAGTGGKBDH



Reverse complement motif  
Consensus sequence: DVDTKTCAAGTGGKBDH



---

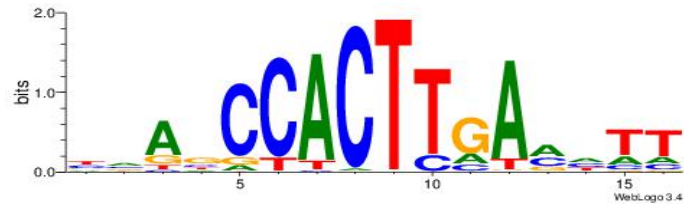
Motif ID: [UP00165](#)  
Motif name: Titf1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.0498919

Alignment:  
AAHYTCAAGTGGTBV  
-----CACGTG-----

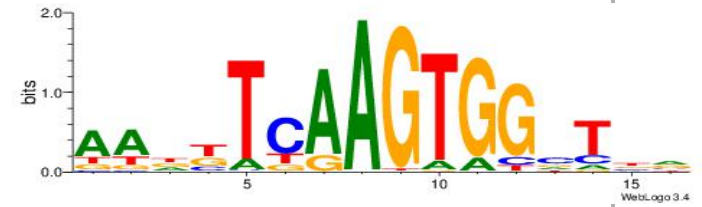
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



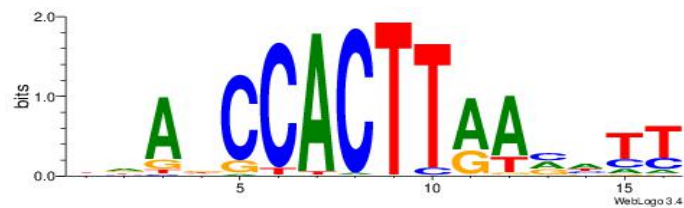
Motif ID: [UP00147](#)  
Motif name: Nkx2-6  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 6  
Similarity score: 0.0544601

Alignment:

```
DDADCCACTTAAVHTT  
-----CACGTG-----
```

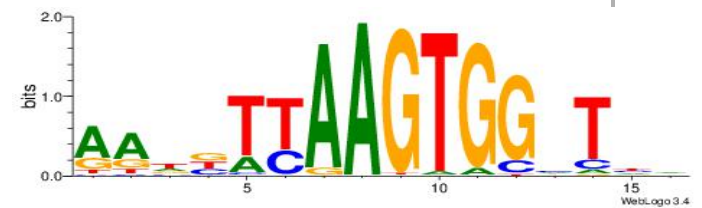
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

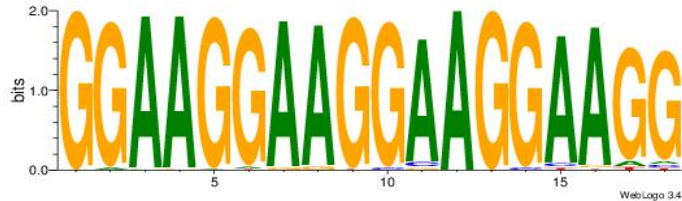
Consensus sequence: AAHVTTAAGTGGHTDD



**Dataset #: 3**      **Motif ID: 48**      **Motif name: EWSR1-FLI1**

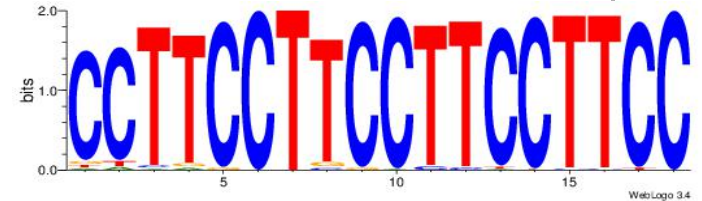
Original motif

Consensus sequence: GGAAGGAAGGAAGGAAGG



Reverse complement motif

Consensus sequence: CCTTCCTTCCTTCCTTCC



### Best Matches for Motif ID 48 (Highest to Lowest)

Motif ID:	<a href="#">UP00419</a>
Motif name:	Spic
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:	0.0442834

Alignment:

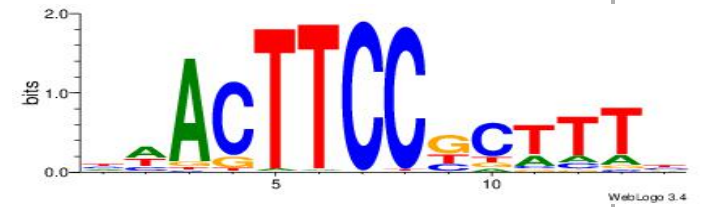
```
----VAAAGMGGAAAGTWD  
GGAAGGAAGGAAGGAAGG--
```

Original motif

Consensus sequence: VAAAGMGGAAAGTWD

Reverse complement motif

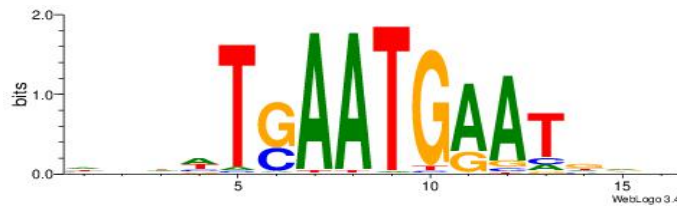
Consensus sequence: DWACTTCCRCTTTB



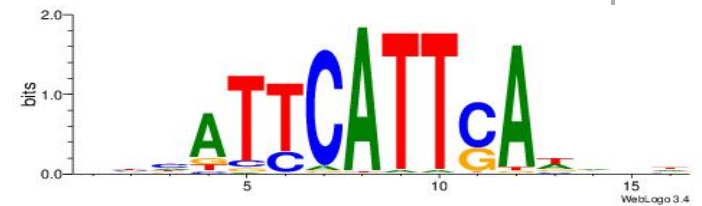
Motif ID: [UP00055](#)  
 Motif name: Hbp1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 14  
 Similarity score: 0.0466226

Alignment:  
 ----VDHATTCATTSAWDDH  
 CCTTCCTTCCTTCCTTCC----

Original motif  
 Consensus sequence: HHDWTSATGAATDDB



Reverse complement motif  
 Consensus sequence: VDHATTCATTSAWDDH



Motif ID: [UP00035](#)  
 Motif name: Hic1\_primary

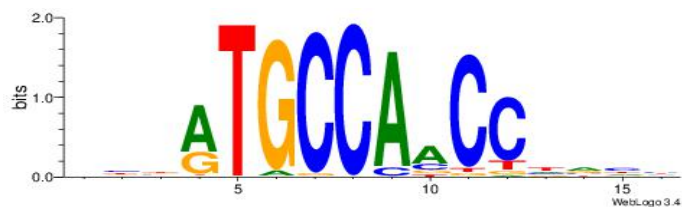
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.047846

Alignment:

----DDBHGGTTGGCATVBD  
 GGAAGGAAGGAAGGAAGG--

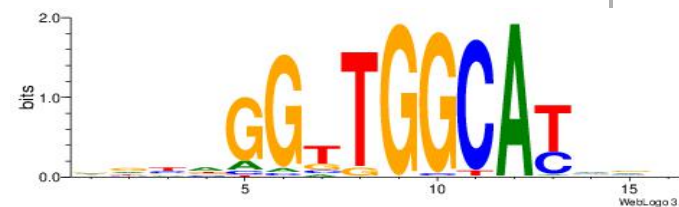
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD




---

Motif ID: [UP00090](#)  
 Motif name: Elf3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 13  
 Similarity score: 0.539121



Alignment:

-----TDAMTTCCYYDTD  
CCTTCCTTCCTTCCTTCC---

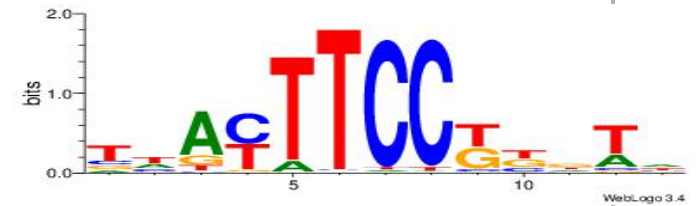
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



---

Motif ID: [UP00062](#)  
Motif name: Sox4\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 5  
Number of overlap: 13  
Similarity score: 0.547912

Alignment:

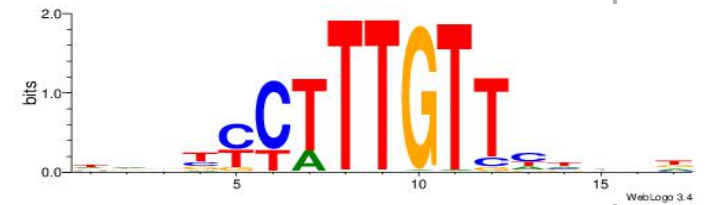
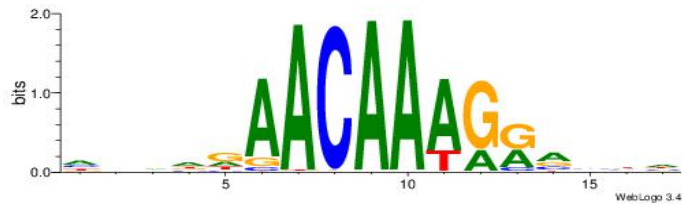
HHBBMCTTTGTTHDDBH-----  
----CCTTCCTTCCTTCCTTCC

Original motif

Consensus sequence: HBDDAACAAAGRVBHH

Reverse complement motif

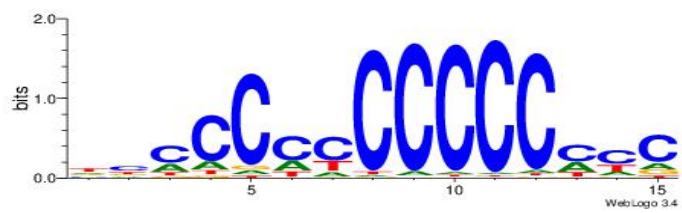
Consensus sequence: HHBBMCTTTGTTHDDBH



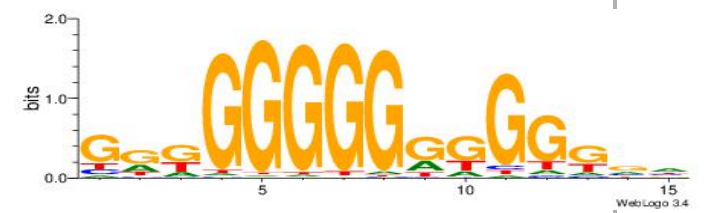
Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 13  
 Similarity score: 0.548284

Alignment:  
 DBCCCCCCCCMYC-----  
 -----GGAAGGAAGGAAGG

Original motif  
 Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif  
 Consensus sequence: GKRGGGGGGGGGBD



Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary

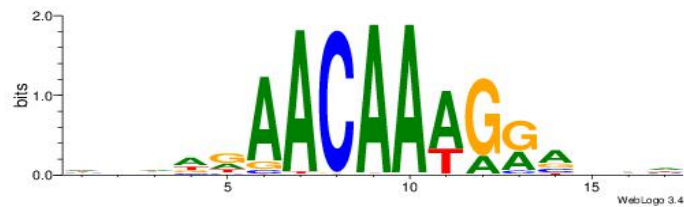
Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 13  
 Similarity score: 0.54837

Alignment:

```
-----HHBTMCTTTGTTMDDVH
CCTTCCTTCCTTCCTTCC-----
```

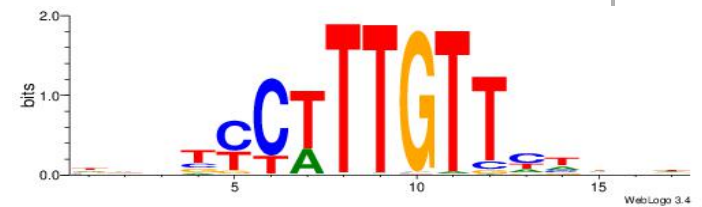
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



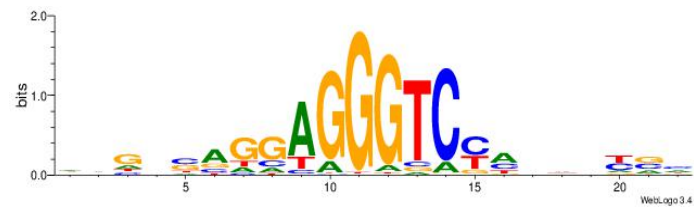
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 12  
 Similarity score: 1.04069

Alignment:

HVGVSAGGAGGGTCYHHHHYVH-----  
-----GGAAGGAAGGAAGGAAGG-----

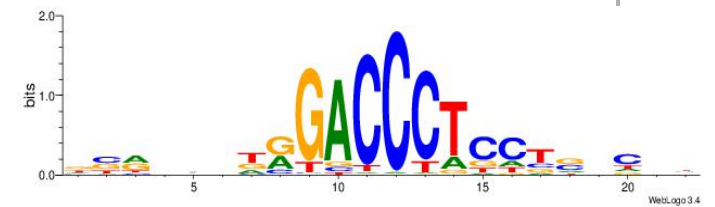
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00409](#)  
Motif name: Elf5  
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: 1.04159

Alignment:

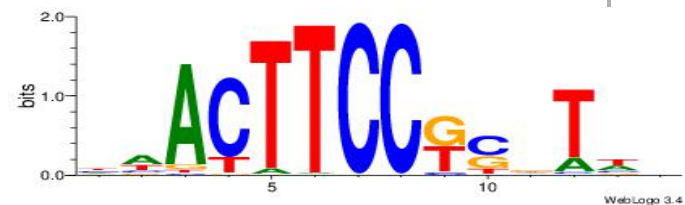
-----BWAHSMGGAAGTWD  
GGAAGGAAGGAAGGAAGG--

Original motif

Consensus sequence: BWAHSMGGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00056](#)  
 Motif name: Rfx4\_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: 12  
 Similarity score: 1.04349

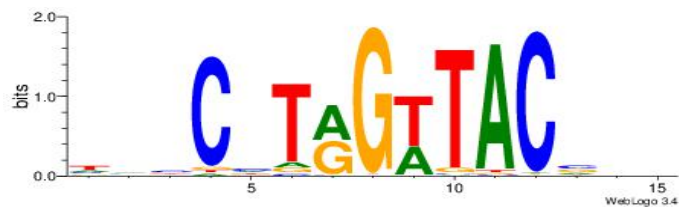
Alignment:

```

-----HHBCHTRGWTACVVH
GGAAGGAAGGAAGGAAGG-----
  
```

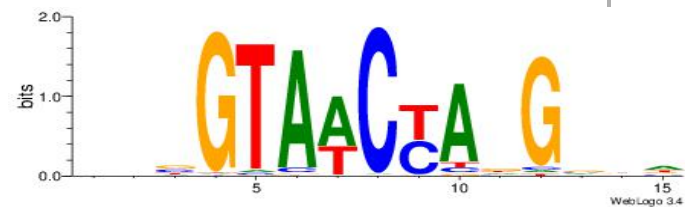
Original motif

Consensus sequence: HHBCHTRGWTACVVH



Reverse complement motif

Consensus sequence: HVVGTAWCKADGBHH



**Dataset #: 3      Motif ID: 49      Motif name: HIF1AARNT**

Original motif

Consensus sequence: VBACGTGV



Reverse complement motif

Consensus sequence: VCACGTBV



### Best Matches for Motif ID 49 (Highest to Lowest)

Motif ID: [UP00097](#)  
Motif name: Mtf1\_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: 8  
Similarity score: 0

Alignment:

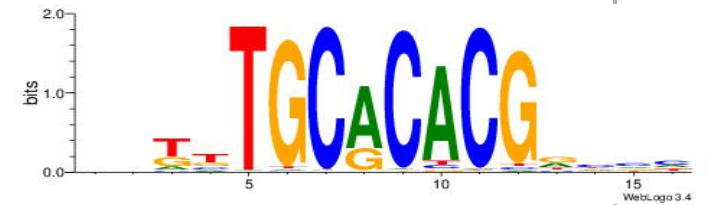
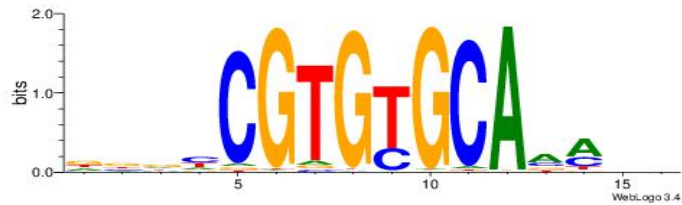
```
HDYTTGCACACGDHBH  
-----VCACGTBV-
```

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH

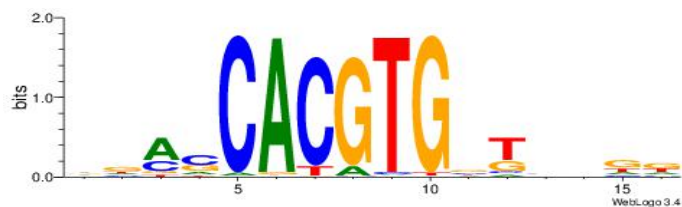


Motif ID: [UP00060](#)  
 Motif name: Max\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.000574345

Alignment:  
 DDASCACGTGBTBVDD  
 ---VBACGTGV-----

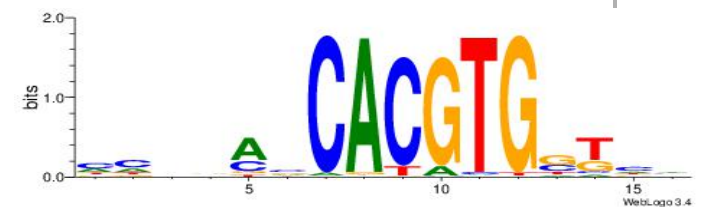
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)

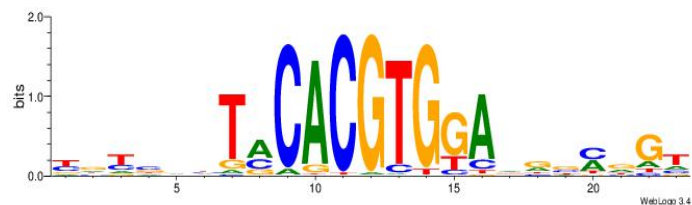
Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 8  
 Similarity score: 0.00642455

**Alignment:**

YDYBDHTMCACGTGGADDBMDGT  
 -----VBACGTGV-----

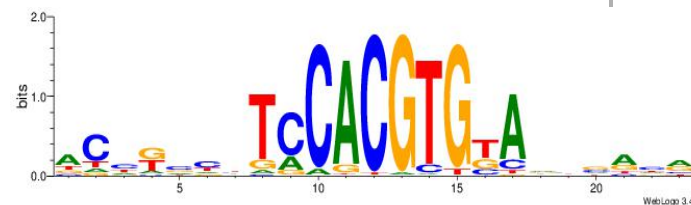
**Original motif**

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



**Reverse complement motif**

Consensus sequence: ACHRBHTCCACGTGYAHHBMHM




---

Motif ID: [UP00084](#)  
 Motif name: Gmeb1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 8



Similarity score: 0.0131171

Alignment:

BVVDVRYACGTRYVBHB  
-----VBACGTGV-----

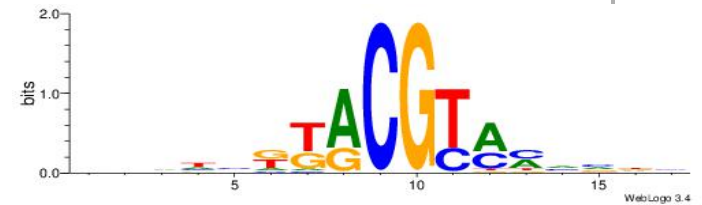
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.014006

Alignment:

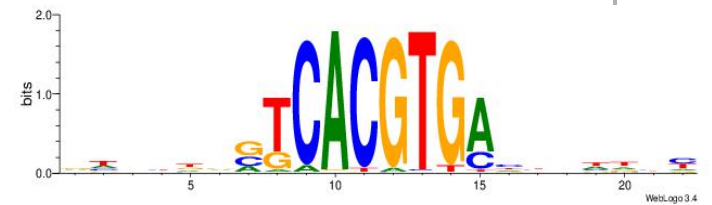
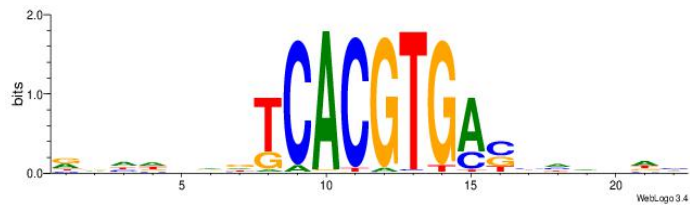
RDHDBVDTACGTGASBHVHDH  
-----VCACGTBV-----

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



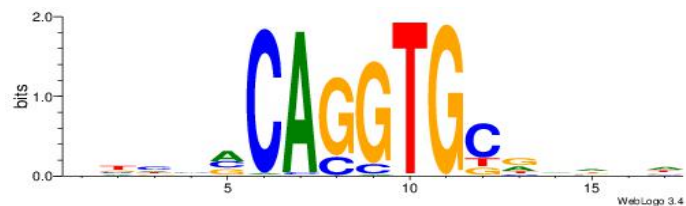
Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0184296

**Alignment:**

VBHHVCAGGTGCDVDHD  
 ----VBACGTGV-----

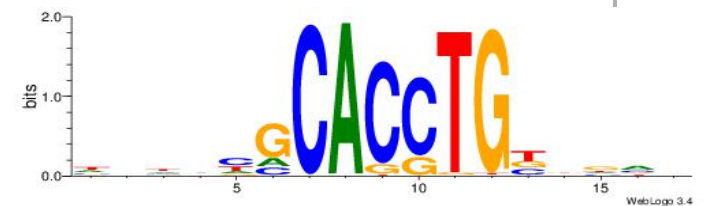
**Original motif**

Consensus sequence: VBHHVCAGGTGCDVDHD



**Reverse complement motif**

Consensus sequence: DHDBHGCACCTGBDDVB



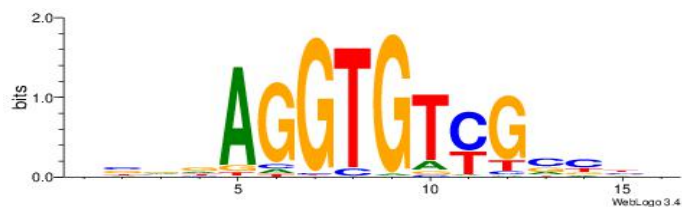
Motif ID: [UP00068](#)  
 Motif name: Eomes\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV  
 -----VCACGTBV--

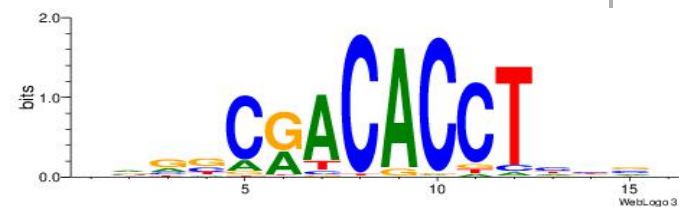
Original motif

Consensus sequence: VBVDAGGTGTYGVBBV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

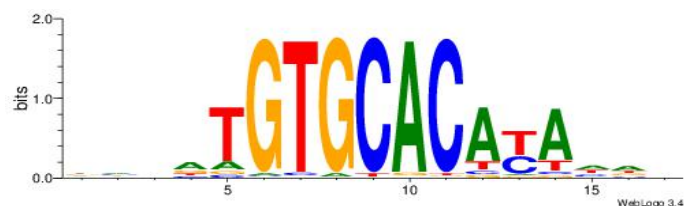


Motif ID: [UP00026](#)  
 Motif name: Zscan4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9

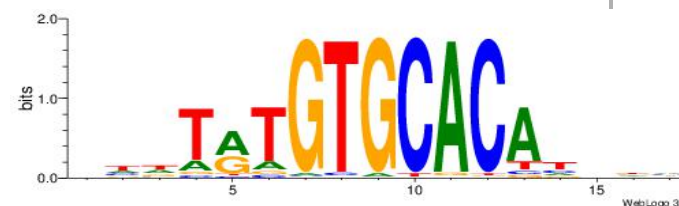
Number of overlap: 8  
Similarity score: 0.0189568

Alignment:  
DHVDTGTGCACAYAHDH  
-VBACGTGV-----

Original motif  
Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif  
Consensus sequence: HDHTMTGTGCACADVHD



---

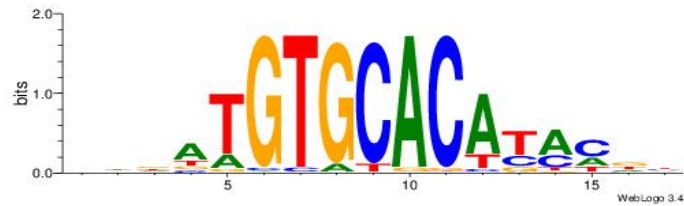
Motif ID: [UP00042](#)  
Motif name: Gm397\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.0198987

Alignment:  
HHRTATGTGCACATHHD  
--VBACGTGV-----

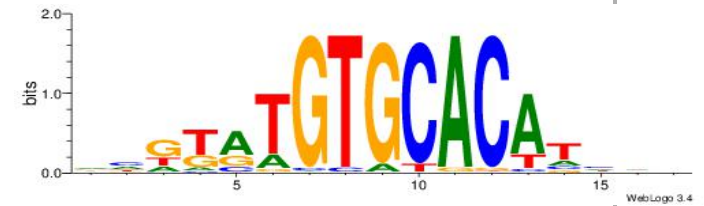
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



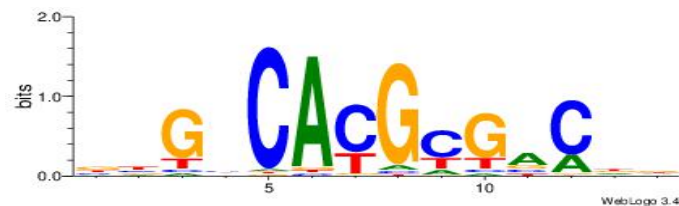
Motif ID: [UP00060](#)  
Motif name: Max\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.021967

Alignment:

```
BBGHCACGCGACDD  
---VCACGTBV---
```

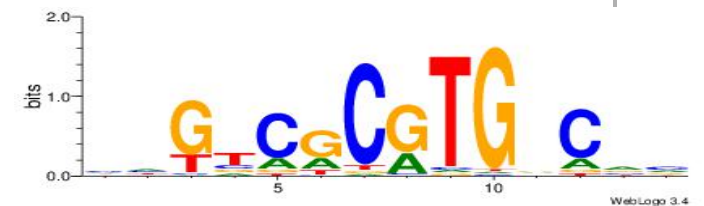
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



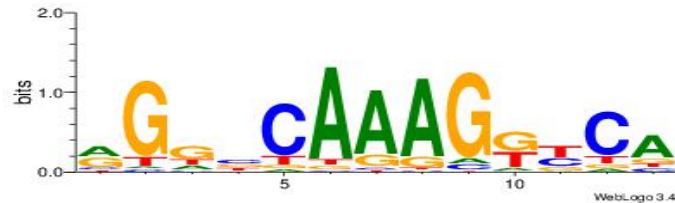
**Dataset #: 3**

**Motif ID: 50**

**Motif name: HNF4A**

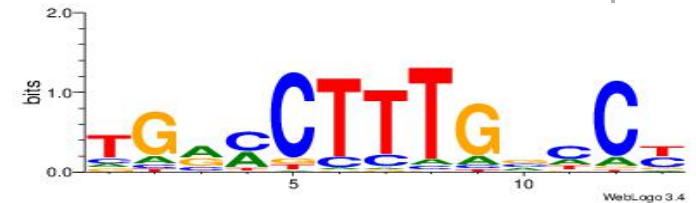
Original motif

Consensus sequence: RGGBCAAAGKYCA



Reverse complement motif

Consensus sequence: TGM YCTTTGBCCK



### Best Matches for Motif ID 50 (Highest to Lowest)

Motif ID: [UP00058](#)  
Motif name: Tcf3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 13  
Similarity score: 0.0357776

Alignment:

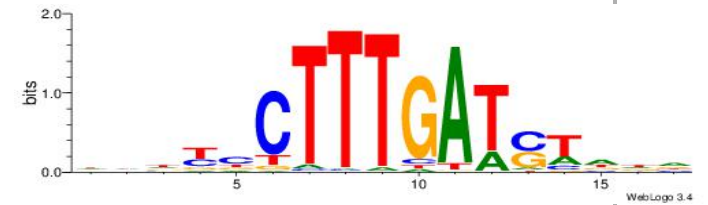
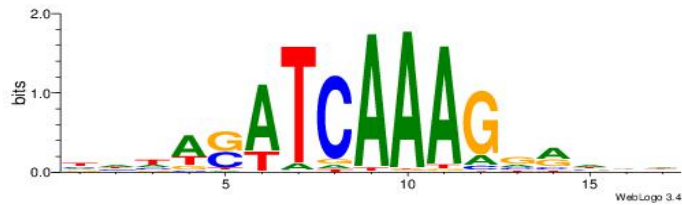
```
HHHASATCAAAGVRHHH  
---RGGBCAAAGKYCA-
```

Original motif

Consensus sequence: HHHASATCAAAGVRHHH

Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH

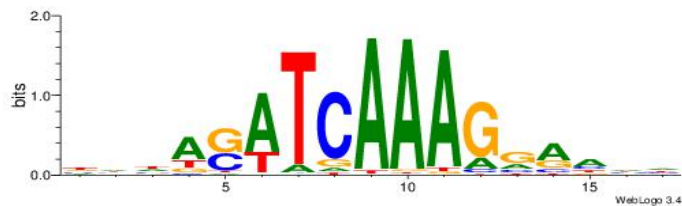


Motif ID: [UP00054](#)  
 Motif name: Tcf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0357792

Alignment:  
 BHHASATCAAAGGAHHH  
 ---RGGBCAAAGKYCA-

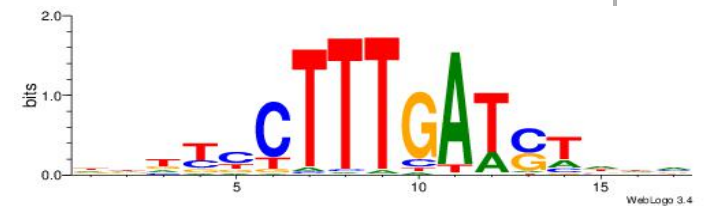
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00067](#)

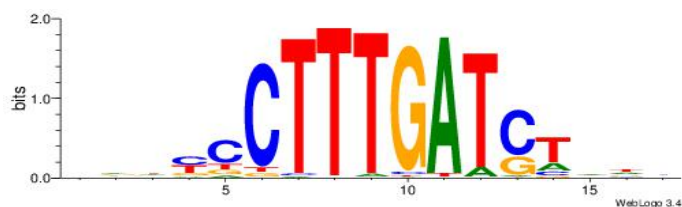
Motif name: Lef1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 13  
 Similarity score: 0.0359011

**Alignment:**

VDDAGATCAAAGGKDDD  
 ---RGGBCAAAGKYCA-

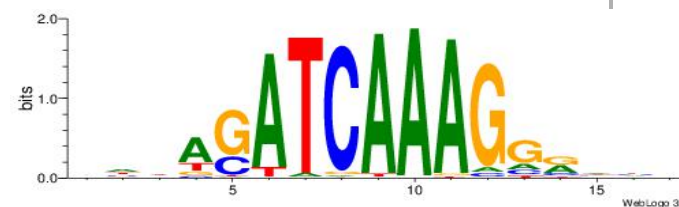
**Original motif**

Consensus sequence: DDDYCCTTTGATCTDDV



**Reverse complement motif**

Consensus sequence: VDDAGATCAAAGGKDDD




---

Motif ID: [UP00083](#)  
 Motif name: Tcf7l2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 13



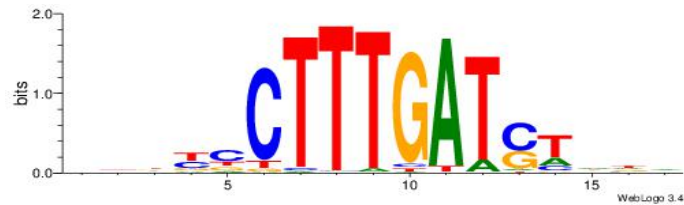
Similarity score: 0.0360786

Alignment:

BDDASATCAAAGGMMMDD  
---RGGBCAAAGKYCA-

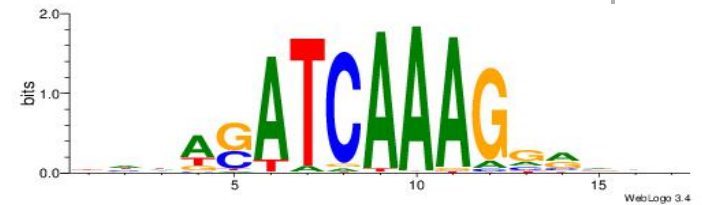
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMMMDD



Motif ID: [UP00046](#)  
Motif name: Tcfe2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 13  
Similarity score: 0.0405764

Alignment:

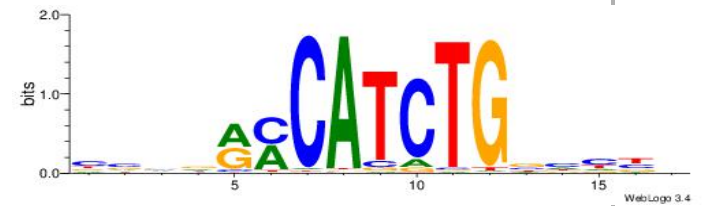
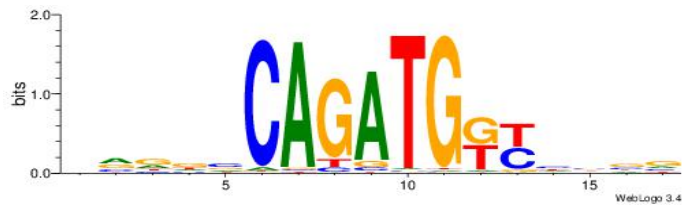
HVDDVCAGATGKYHBBV  
-RGGBCAAAGKYCA---

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

Consensus sequence: VBDDMYCATCTGVHBBH

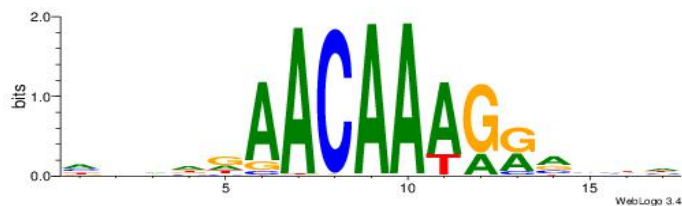


Motif ID: [UP00062](#)  
 Motif name: Sox4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0409915

Alignment:  
 HHBBMCTTTGTTHDDBH  
 -TGM YCTTTGBCCK---

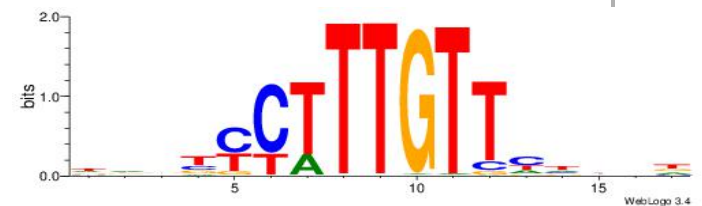
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



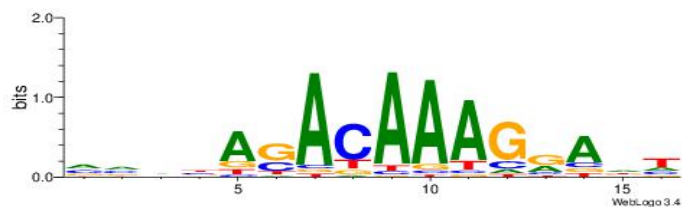
Motif ID: [UP00101](#)  
Motif name: Sox12\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 13  
Similarity score: 0.0413218

**Alignment:**

```
HDTMCTTTGTSTVDBB  
TGM YCTTTGBCK---
```

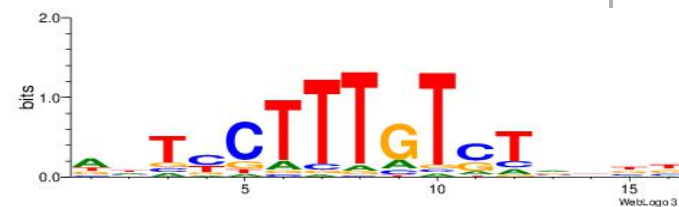
**Original motif**

Consensus sequence: VVDBASACAAAGRADH



**Reverse complement motif**

Consensus sequence: HDTMCTTTGTSTVDBB



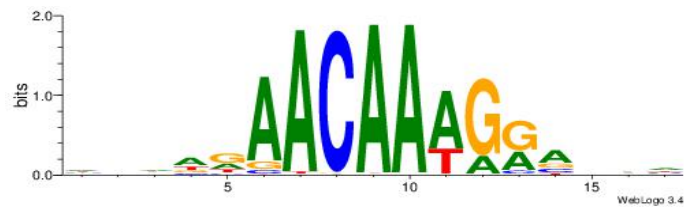
---

Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4

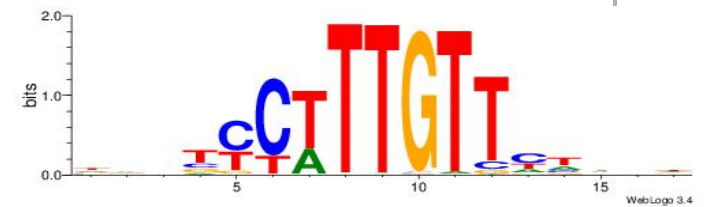
Number of overlap: 13  
Similarity score: 0.0421105

Alignment:  
HHBTMCTTTGTTMDDVH  
-TGM YCTTTGBCCK---

Original motif  
Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif  
Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00086](#)  
Motif name: Irf3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 13  
Similarity score: 0.0442004

Alignment:  
DDAGAADGGDSCDV  
RGGBCAAAGKYCA-

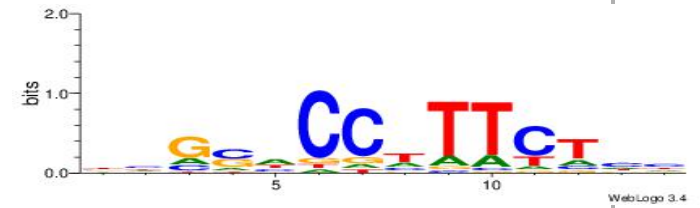
Original motif

Reverse complement motif

Consensus sequence: DDAGAADGGDSCDV



Consensus sequence: BHGSDCCD TTCTHH



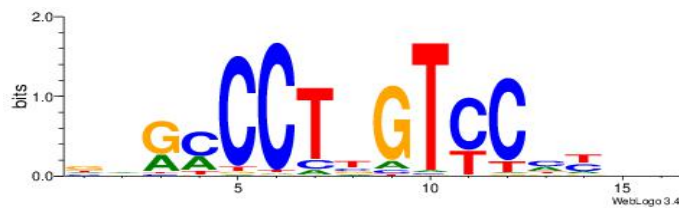
Motif ID: [UP00082](#)  
Motif name: Zfp187\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 13  
Similarity score: 0.0446884

Alignment:

```
VHMDGGACVAGGRCDH  
---RGGBCAAAGKYCA
```

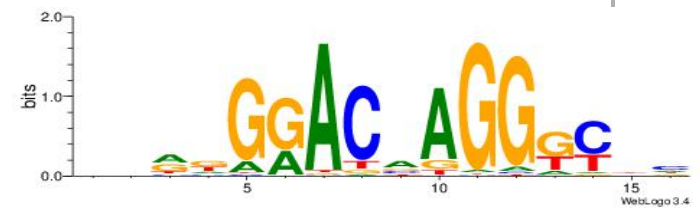
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



**Dataset #: 3**

**Motif ID: 51**

**Motif name: INSM1**

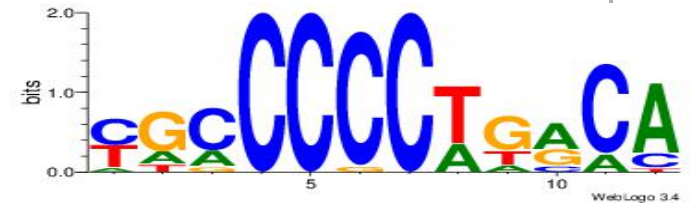
Original motif

Consensus sequence: TGYCAGGGGGCR



Reverse complement motif

Consensus sequence: MGCCCCCTGMCA



### Best Matches for Motif ID 51 (Highest to Lowest)

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: 4  
Number of overlap: 12  
Similarity score: 0.00085101

Alignment:

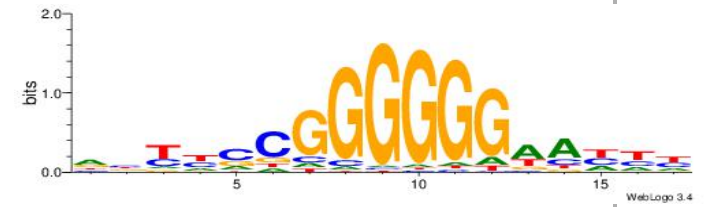
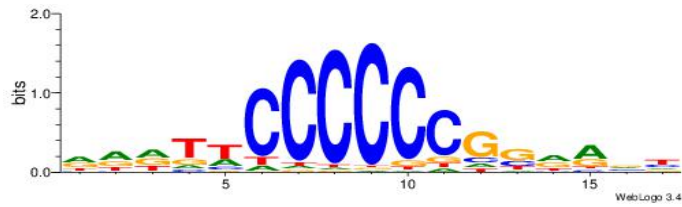
```
HVKDCCGGGGGGWADDD  
--TGYCAGGGGGCR---
```

Original motif

Consensus sequence: DDDTWCCCCCGGDRVH

Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD

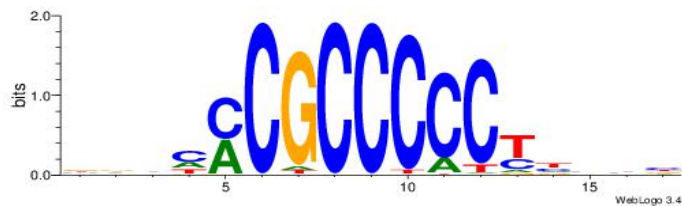


Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 12  
 Similarity score: 0.00406431

Alignment:  
 BVVHAGGGGGCGRDHBB  
 TGYCAGGGGGCR-----

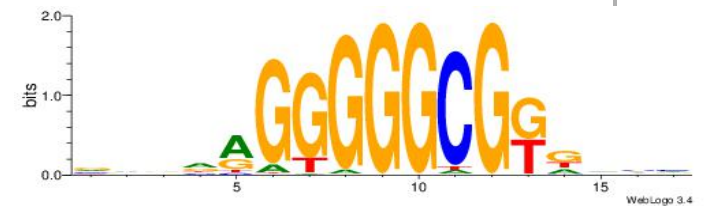
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00047](#)

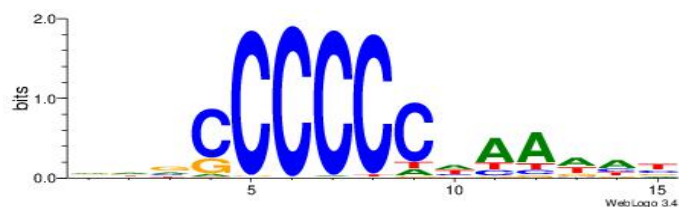
Motif name: Zbtb7b\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.00486866

**Alignment:**

VHWTTGGGGGGVDD  
 --TGYCAGGGGGCR-

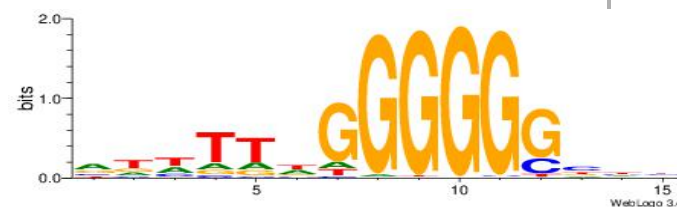
**Original motif**

Consensus sequence: DDVCCCCCHAAWHB



**Reverse complement motif**

Consensus sequence: VHWTTGGGGGGVDD




---

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



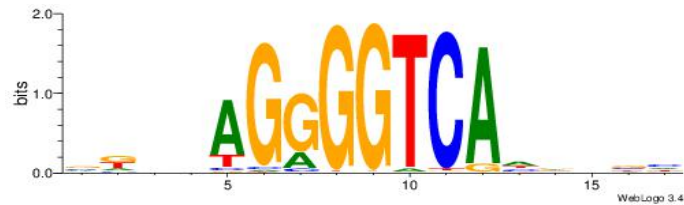
Similarity score: 0.00862553

Alignment:

VKBBAGGGGTCAHDBBH  
TGYCAGGGGGCR-----

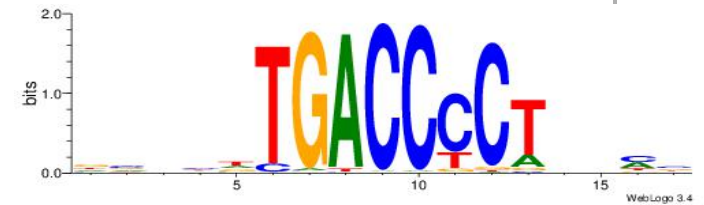
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00024](#)  
Motif name: Glis2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.00936306

Alignment:

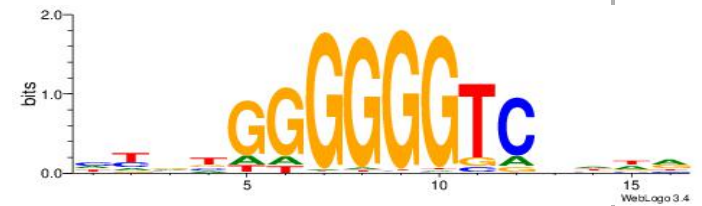
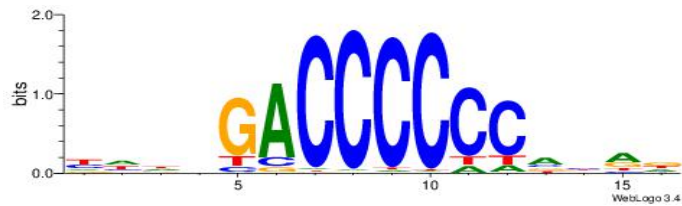
HKBBGGGGGGTGVHHH  
-TGYCAGGGGGCR---

Original motif

Consensus sequence: HHHVGACCCCCVBRD

Reverse complement motif

Consensus sequence: HKBBGGGGGGTGVHHH

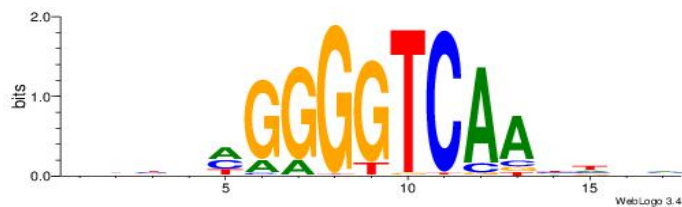


Motif ID: [UP00066](#)  
 Motif name: Hnf4a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 12  
 Similarity score: 0.0123592

Alignment:  
 BDBVMGGGGTCAABHDV  
 TGYCAGGGGGCR-----

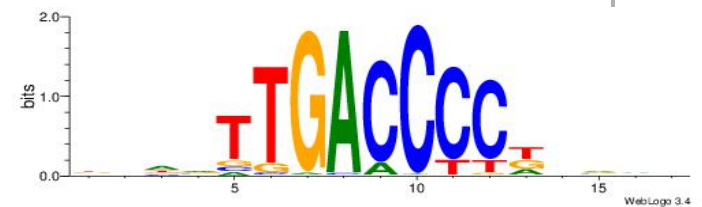
Original motif

Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD



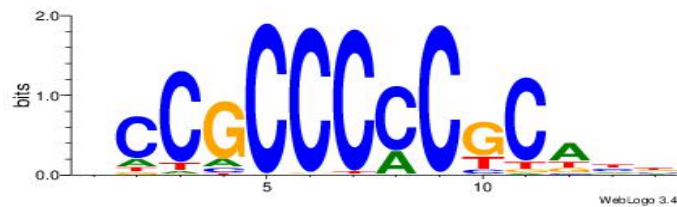
Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary

Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0155167

Alignment:  
 HCCGCCCCCGCAHB  
 --MGCCCCCTGMCA

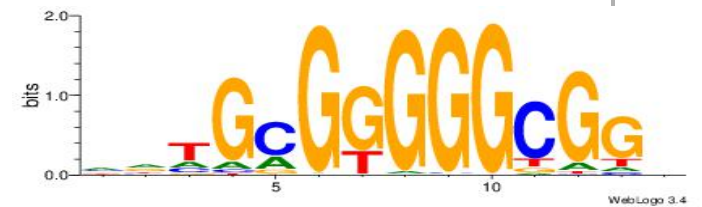
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH




---

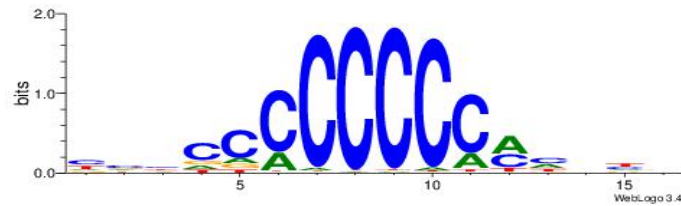
Motif ID: [UP00022](#)  
 Motif name: Zfp740\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0176638

Alignment:

HVBCCCCCCCCMHHHB  
---MGCCCCCTGMCA-

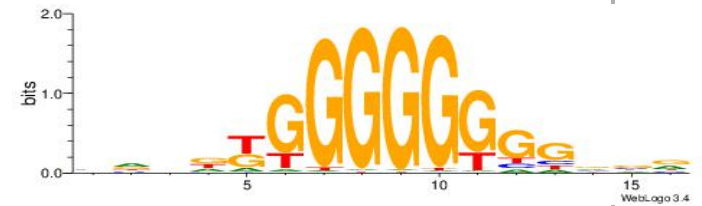
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



---

Motif ID: [UP00043](#)  
Motif name: Bcl6b\_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: 12  
Similarity score: 0.0182432

Alignment:

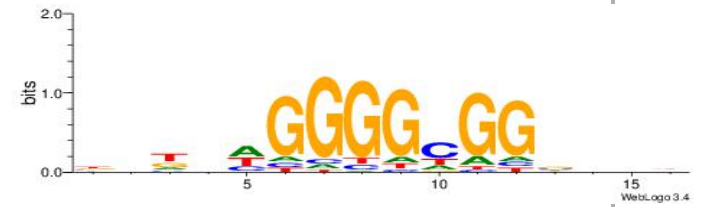
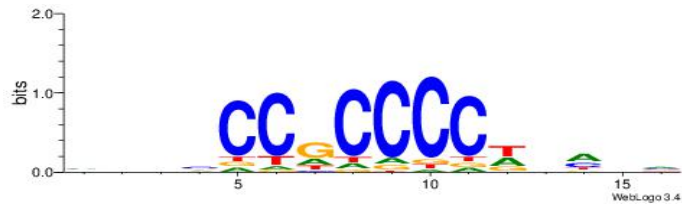
BHHHWGGGGCGGBBVH  
TGYCAGGGGGCR----

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH

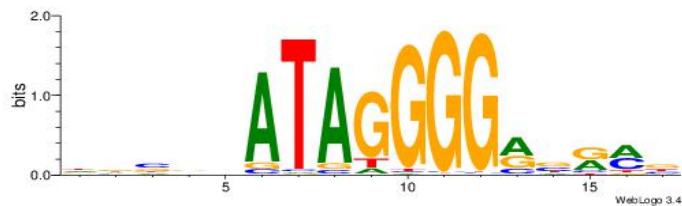


Motif ID: [UP00070](#)  
 Motif name: Gcm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0200587

Alignment:  
 BYMBKCCCCTATDVBHD  
 --MGCCCCCTGMCA---

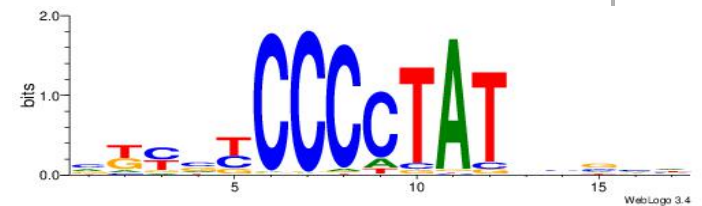
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



**Dataset #: 3      Motif ID: 52      Motif name: Klf4**

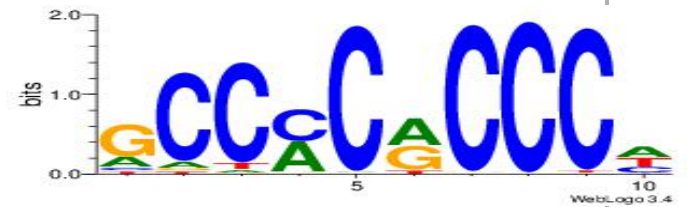
Original motif

Consensus sequence: DGGGYGKGGC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



### Best Matches for Motif ID 52 (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: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0

Alignment:

DHHDGGGCGRGGKHBH

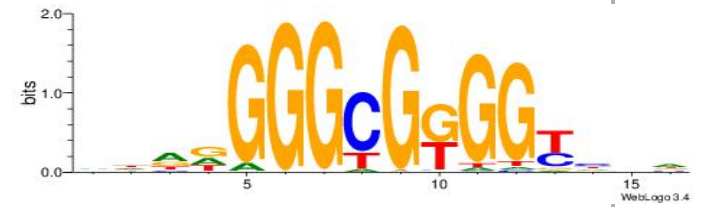
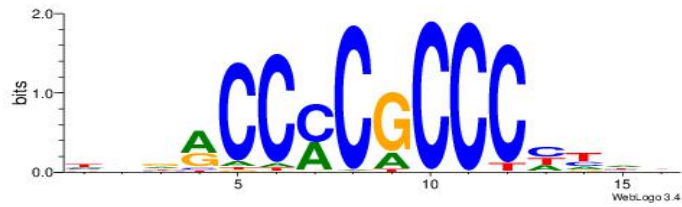
---DGGGYGKGGC---

Original motif

Consensus sequence: HBDRCMCGCCCHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

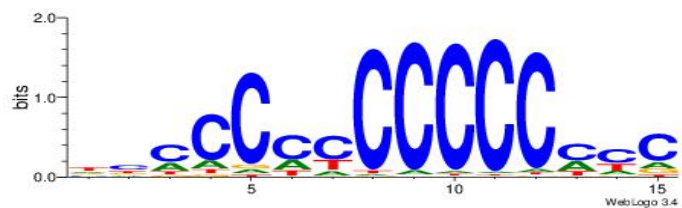


Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.0153308

Alignment:  
 DBCCCCCCCCMYC  
 ---GCCYCMCCCD--

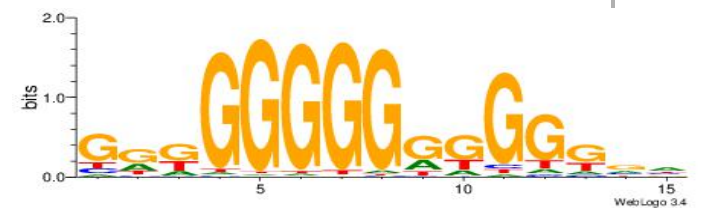
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00002](#)

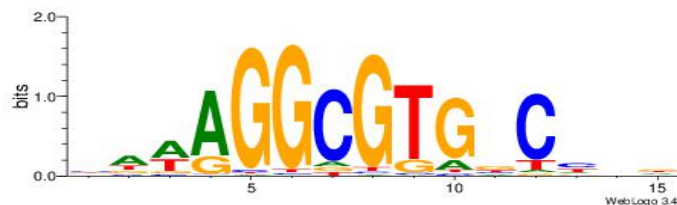
Motif name: Sp4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0186791

**Alignment:**

BDWAGGCGTGBCHHH  
 --DGGGYGKGGC---

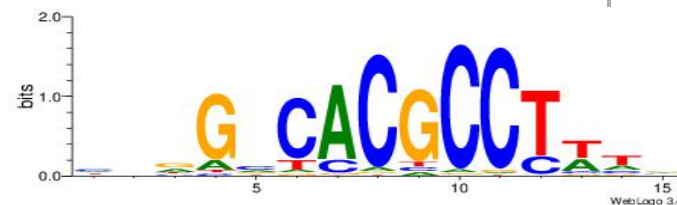
**Original motif**

Consensus sequence: BDWAGGCGTGBCHHH



**Reverse complement motif**

Consensus sequence: HHDGBCACGCCTWDB




---

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: Forward  
 Position number: 3  
 Number of overlap: 10



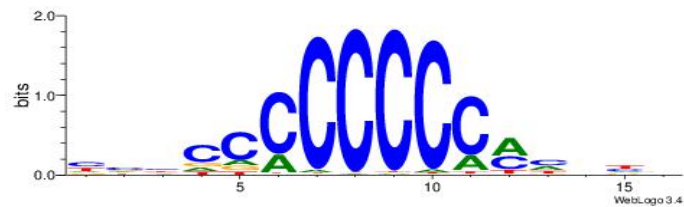
Similarity score: 0.0218399

Alignment:

HVBCCCCCCCCMHHHB  
--GCCYCMCCCD----

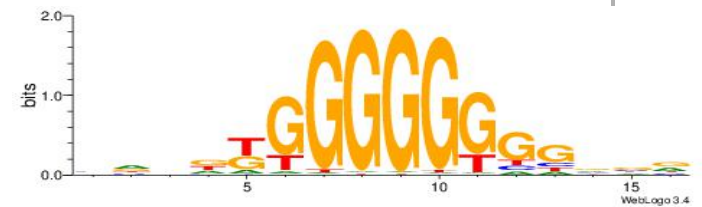
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



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: 1  
Number of overlap: 10  
Similarity score: 0.0249586

Alignment:

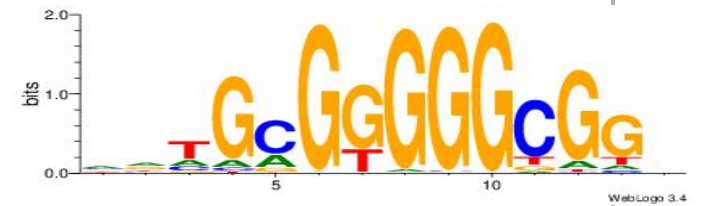
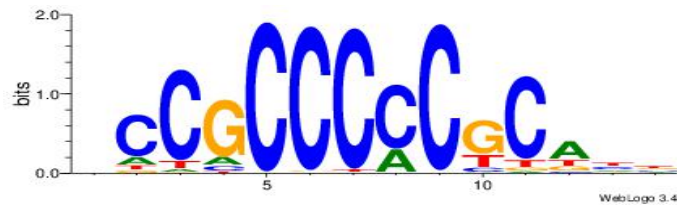
HCCGCCCCCGCAHB  
GCCYCMCCCD----

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0299159

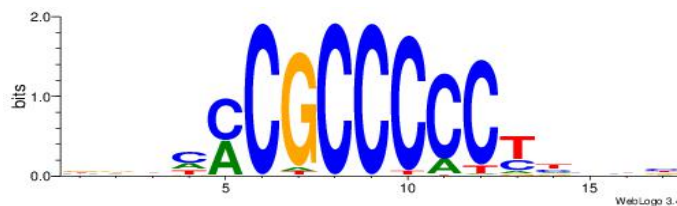
**Alignment:**

```

BVVHAGGGGGCGRDHHB
-----DGGGYGKGGC-
  
```

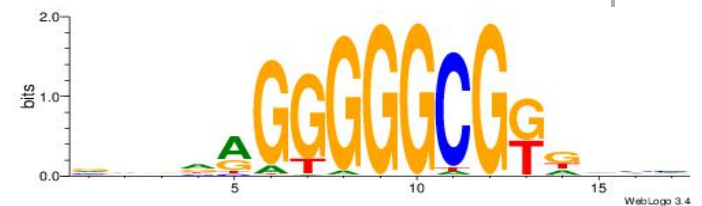
**Original motif**

Consensus sequence: BDHHMCGCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB



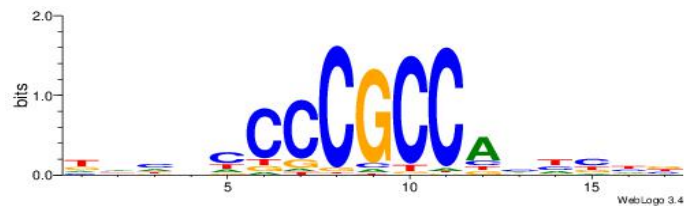
Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0308595

**Alignment:**

BHBHDTGGCGGGBDHD  
 ----DGGGYGKGGC----

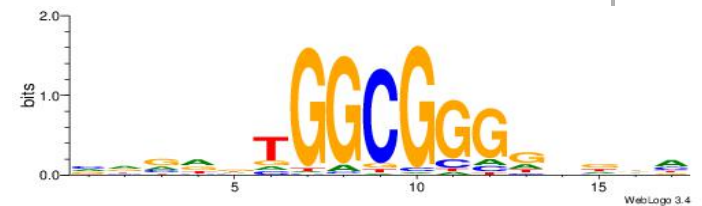
**Original motif**

Consensus sequence: DHHBCCCCGCCAHHBHB



**Reverse complement motif**

Consensus sequence: BHBHDTGGCGGGBDHD

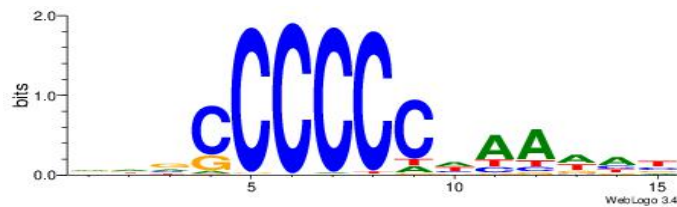


Motif ID: [UP00047](#)  
 Motif name: Zbtb7b\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1

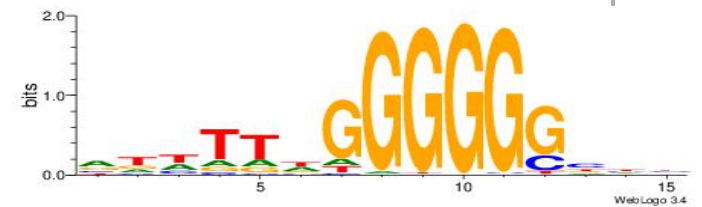
Number of overlap: 10  
Similarity score: 0.0345891

Alignment:  
DDVCCCCCCHAAWHB  
GCCYCMCCCD-----

Original motif  
Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif  
Consensus sequence: VHWTTGGGGGGVDD



---

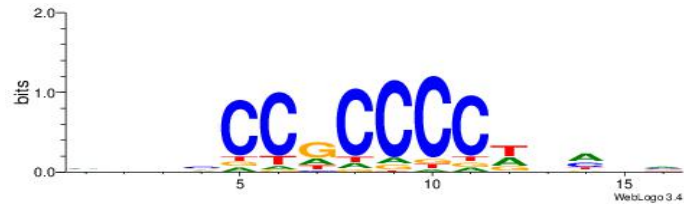
Motif ID: [UP00043](#)  
Motif name: Bcl6b\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0346735

Alignment:  
HBBCCGCCCCWHHHV  
--GCCYCMCCCD-----

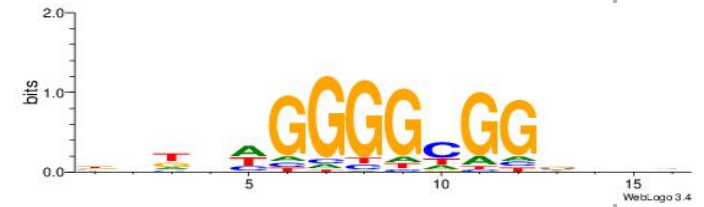
Original motif

Reverse complement motif

Consensus sequence: HBBCCGCCCCWHHHV



Consensus sequence: BHHHWGGGGCGBBVH



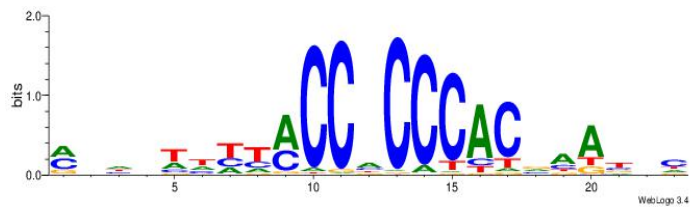
Motif ID: [UP00538](#)  
Motif name: Gli1\_v015681\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 8  
Number of overlap: 10  
Similarity score: 0.0351496

Alignment:

```
MHHHWHYTMCCCHCCCACVAABVH  
-----GCCYCMCCCD-----
```

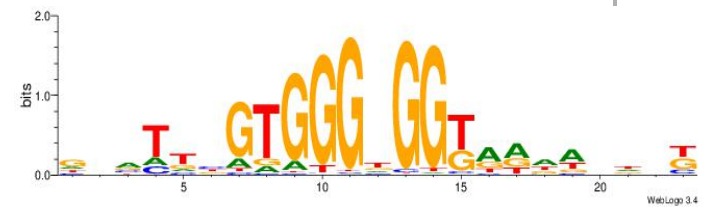
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



**Dataset #: 3**

**Motif ID: 53**

**Motif name: MIZF**

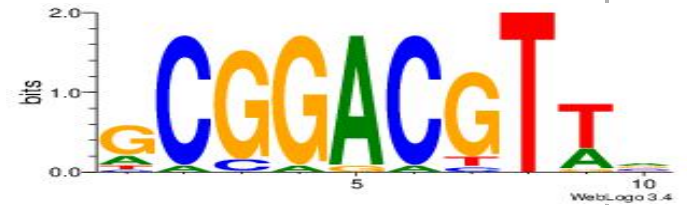
Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTV



### Best Matches for Motif ID 53 (Highest to Lowest)

Motif ID:	<a href="#">UP00419</a>
Motif name:	Spic
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:

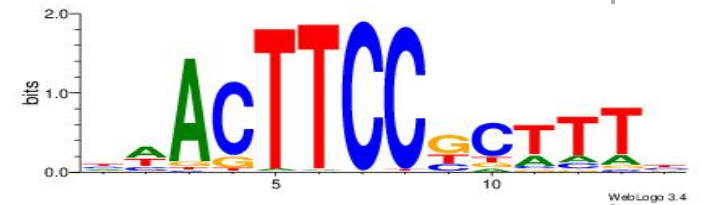
```
DWACTTCCRCTTTB  
BAACGTCCGC-----
```

Original motif

Consensus sequence: VAAAGMGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



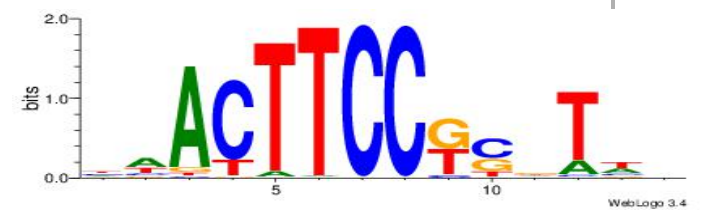
Motif ID: [UP00409](#)  
 Motif name: Elf5  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.00379999

Alignment:  
 BWAHSMGGAAGTWD  
 BAACGTCCGC-----

Original motif  
 Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif  
 Consensus sequence: DWACTTCRSDTWV



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

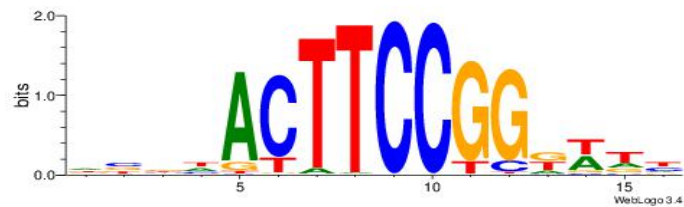
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWTH  
--BAACGTCCGC----

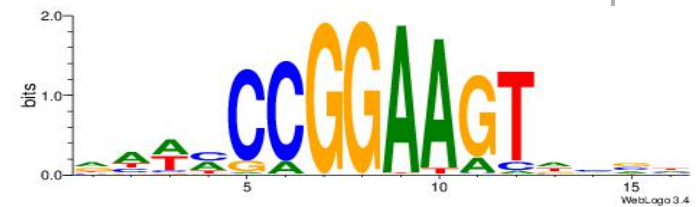
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



---

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

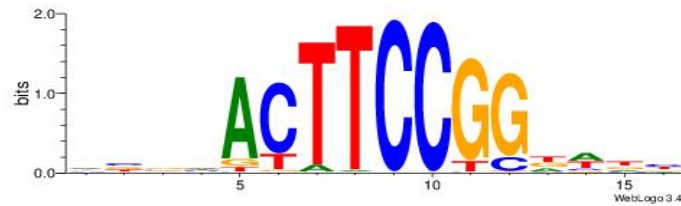


Alignment:

DBBHACTTCCGGDWDB  
--BAACGTCCGC-----

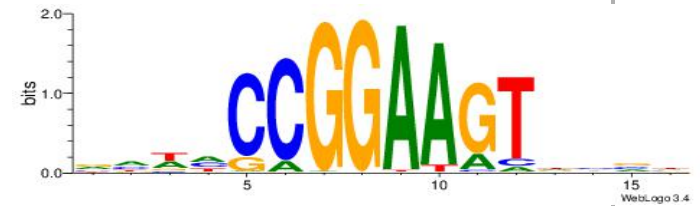
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWCCGGAAGTHBBD



---

Motif ID: [UP00085](#)  
Motif name: Sfp1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 10  
Similarity score: 0.0141516

Alignment:

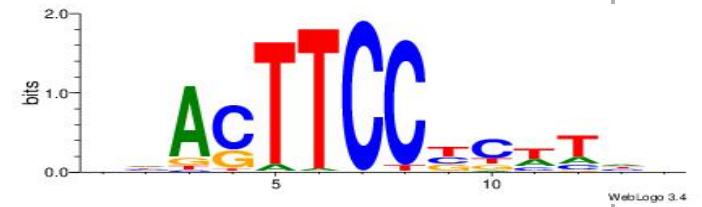
BDAWGVGGAAGTDH  
BAACGTCCGC-----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV

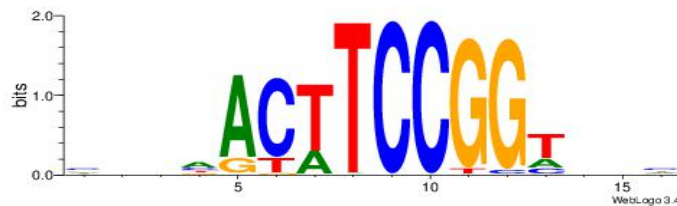


Motif ID: [UP00423](#)  
 Motif name: Gm5454  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0144665

Alignment:  
 DVHACCGGAAGTHDDV  
 ----GCGGACGTTV--

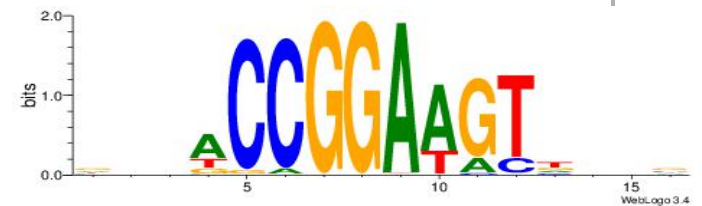
Original motif

Consensus sequence: VDHHACTTCCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



Motif ID: [UP00412](#)

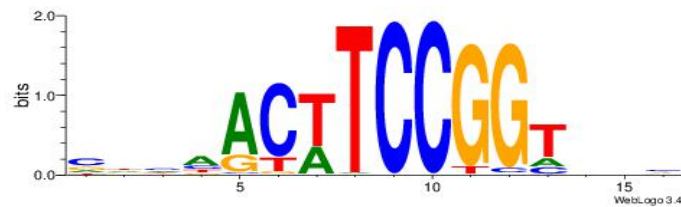
Motif name: Etv5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0155825

**Alignment:**

DHHACCGAWGTTDDV  
 ----GCGGACGTTV--

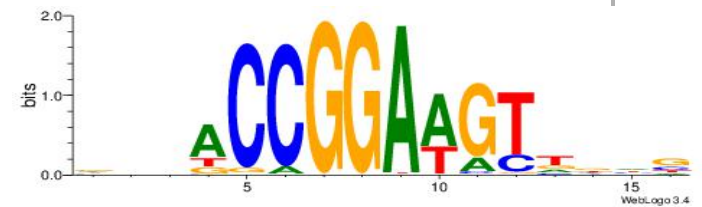
**Original motif**

Consensus sequence: VDHAACWTCCGGTHHH



**Reverse complement motif**

Consensus sequence: DHHACCGAWGTTDDV




---

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

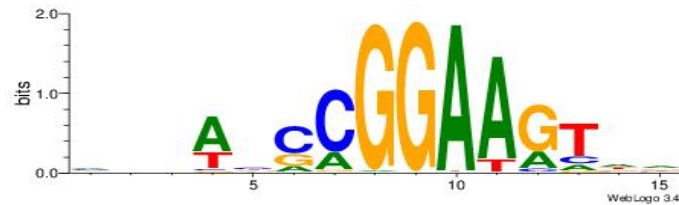
Similarity score: 0.0162018

Alignment:

VBDABCCGGAAGTDD  
-----GCGGACGTTV

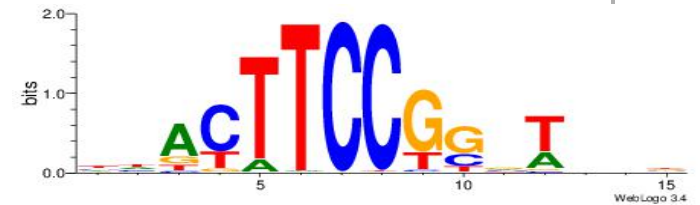
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



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

Alignment:

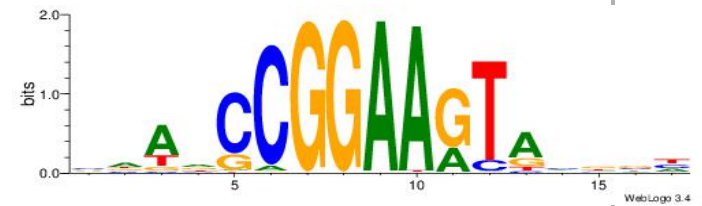
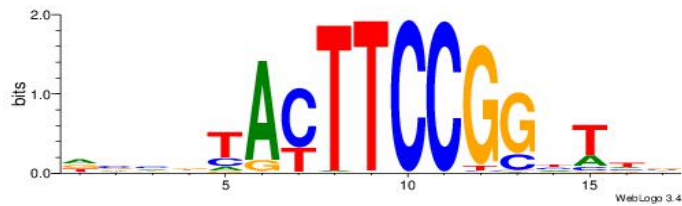
DVHBTACTTCCGGHTHB  
---BAACGTCCG-----

Original motif

Consensus sequence: DVHBTACTTCCGGHTHB

Reverse complement motif

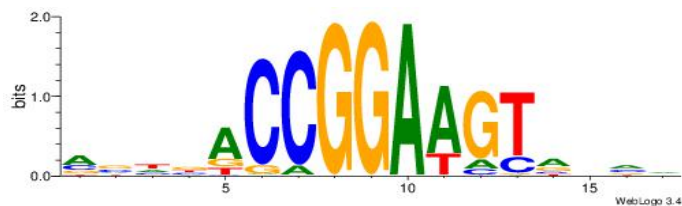
Consensus sequence: BHAHCCGGAAGTABDVD



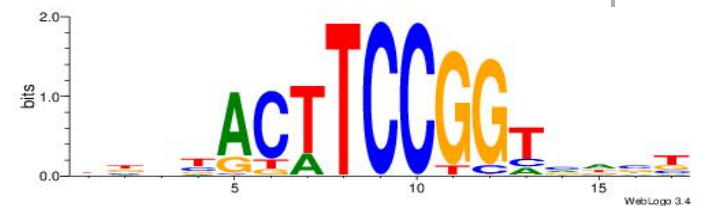
Motif ID: [UP00421](#)  
 Motif name: Etv1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0184147

Alignment:  
 MVHBACCGGAAGTVDVH  
 -----GCGGACGTTV--

Original motif  
 Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif  
 Consensus sequence: HBDBACTTCCGGTBHVY



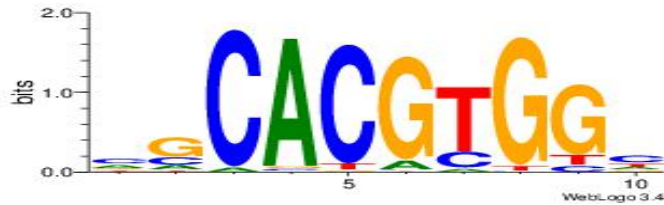
**Dataset #: 3**

**Motif ID: 54**

**Motif name: Myc**

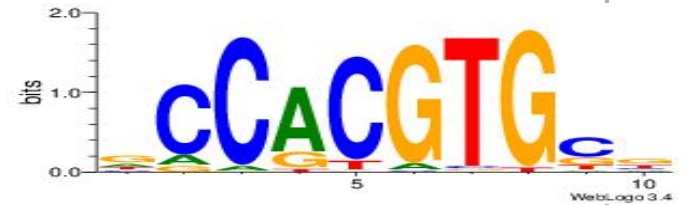
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



### Best Matches for Motif ID 54 (Highest to Lowest)

Motif ID:	<a href="#">UP00060</a>
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

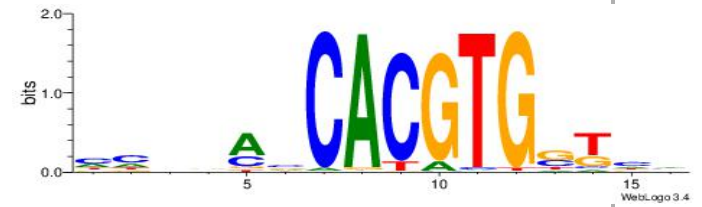
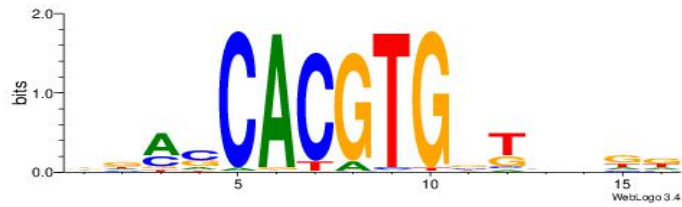
```
DDASCACGTGBTBVDD  
--VGCACGTGGH----
```

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

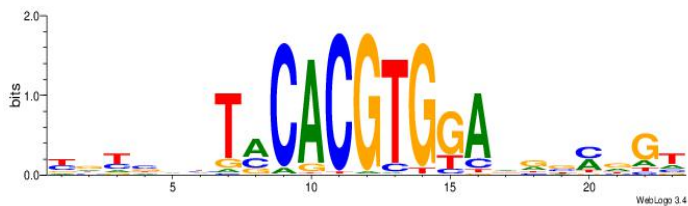


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00631885

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

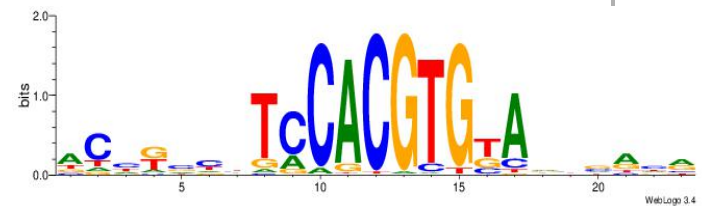
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

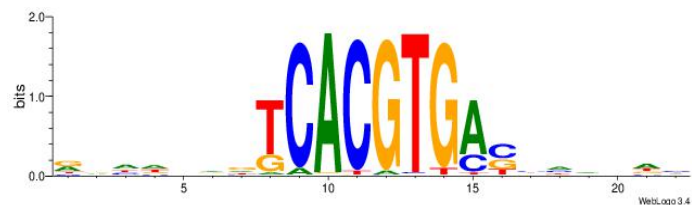
Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00821668

Alignment:

DDHBHBSTCACGTGAHBBDHMM  
 -----DCCACGTGCV-----

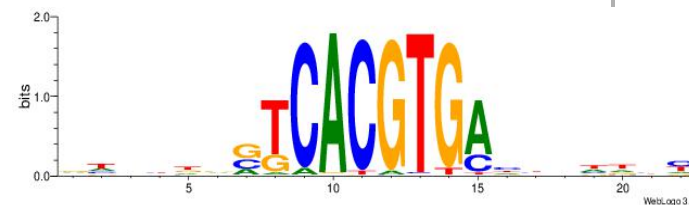
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMM




---

Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10



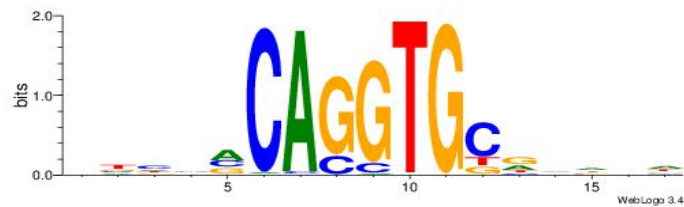
Similarity score: 0.0140005

Alignment:

DHDBHGCACCTGBDDVB  
----VGCACGTGGH----

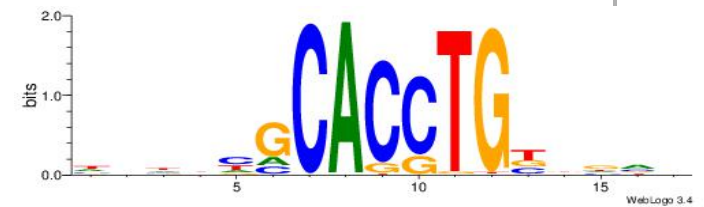
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

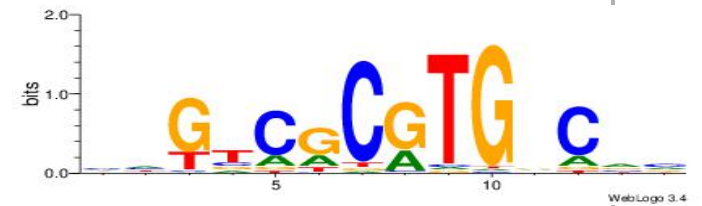
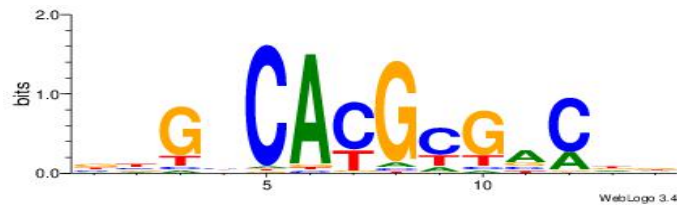
BBGHCACGCGACDD  
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



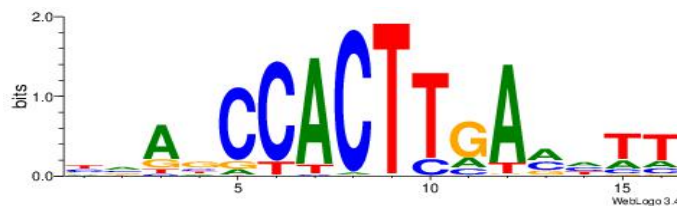
Motif ID: [UP00165](#)  
 Motif name: Titf1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.0311723

**Alignment:**

BVABCCACTTGAMHTT  
 ---DCCACGTGCV---

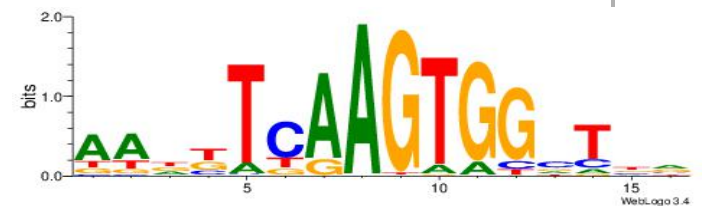
**Original motif**

Consensus sequence: BVABCCACTTGAMHTT



**Reverse complement motif**

Consensus sequence: AAHYTCAAGTGGTBV



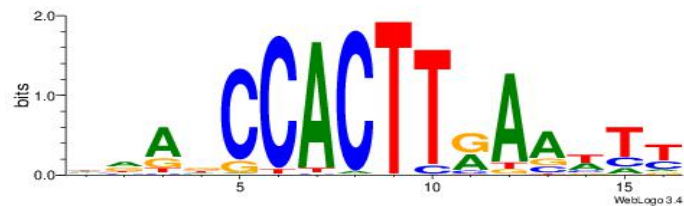
Motif ID: [UP00249](#)  
 Motif name: Nkx2-5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT  
 ---DCCACGTGCV---

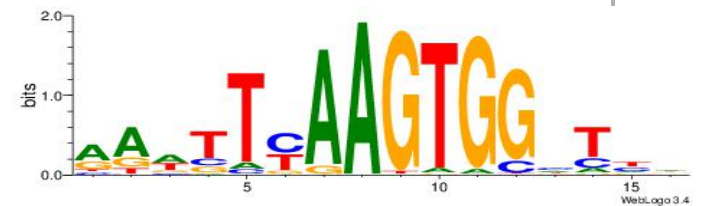
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH

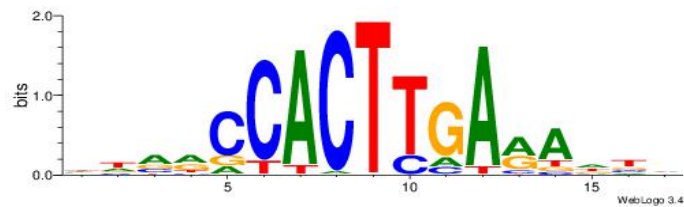


Motif ID: [UP00231](#)  
 Motif name: Nkx2-2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4

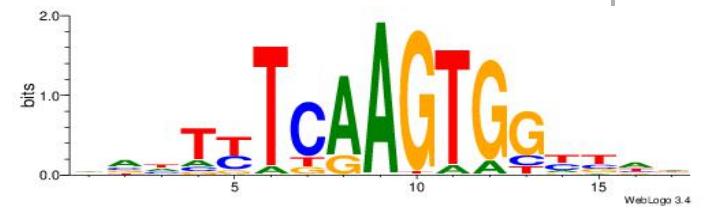
Number of overlap: 10  
Similarity score: 0.0334845

Alignment:  
HDVRCCACTTGARADBD  
---DCCACGTGCV----

Original motif  
Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif  
Consensus sequence: DVDTKTCAAGTGGKBDH



---

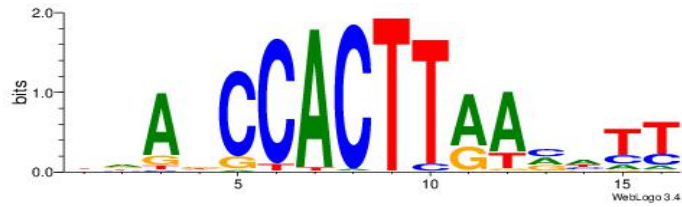
Motif ID: [UP00147](#)  
Motif name: Nkx2-6  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0345548

Alignment:  
DDADCCACTTAAVHTT  
---DCCACGTGCV---

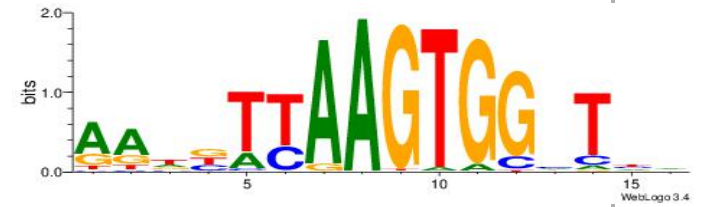
Original motif

Reverse complement motif

Consensus sequence: DDADCCACTTAAVHTT



Consensus sequence: AAHVTTAAGTGGHTDD



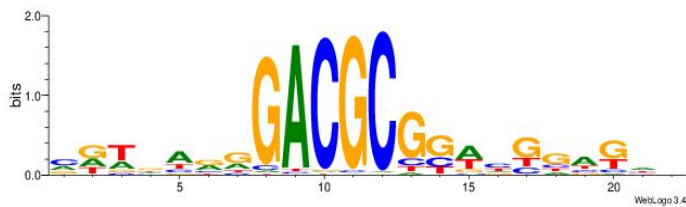
Motif ID: [UP00527](#)  
Motif name: Foxn4\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0363818

Alignment:

```
VDWDARRGACGCGGWHGGAKHV  
-----VGCACGTGGH-----
```

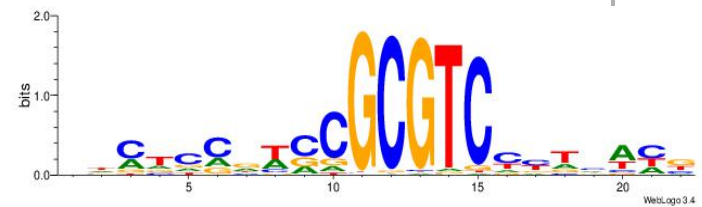
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMTHWHV



**Dataset #: 3**

**Motif ID: 55**

**Motif name: MYCMAX**

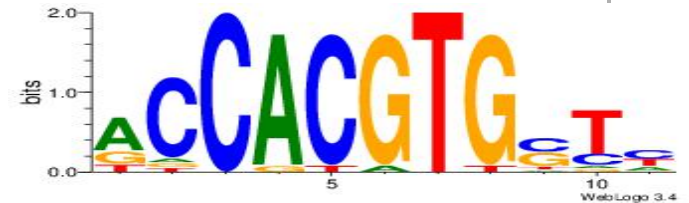
Original motif

Consensus sequence: RASCACGTGGT



Reverse complement motif

Consensus sequence: ACCACGTGSTM



### Best Matches for Motif ID 55 (Highest to Lowest)

Motif ID:	<a href="#">UP00060</a>
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:	3
Number of overlap:	11
Similarity score:	0

Alignment:

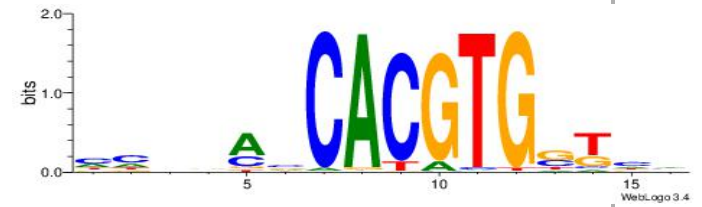
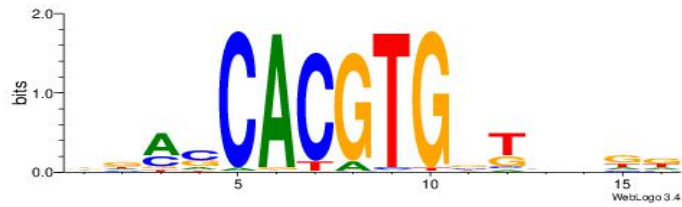
```
HHVBABCACGTGSTHD  
---RASCACGTGGT---
```

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

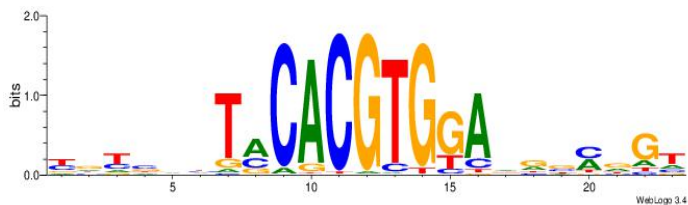


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 11  
 Similarity score: 0.025477

Alignment:  
 ACHRBHDTCCACGTGYAHBMHM  
 -----ACCACGTGSTM-----

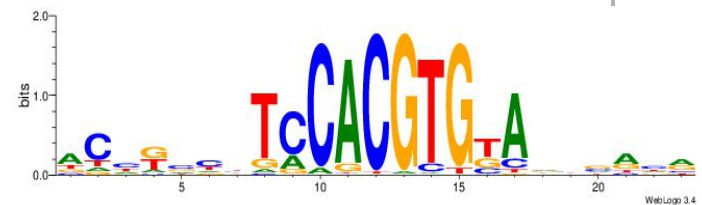
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMHM



Motif ID: [UP00050](#)

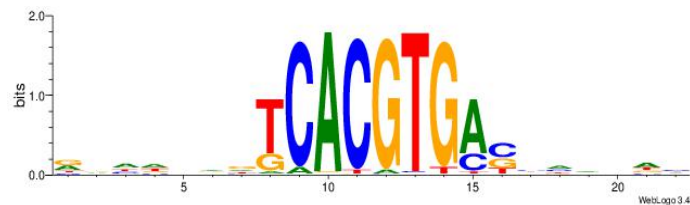
Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 11  
 Similarity score: 0.033078

**Alignment:**

RDHDBVDTCACGTGASBHVHDH  
 -----RASCACGTGGT-----

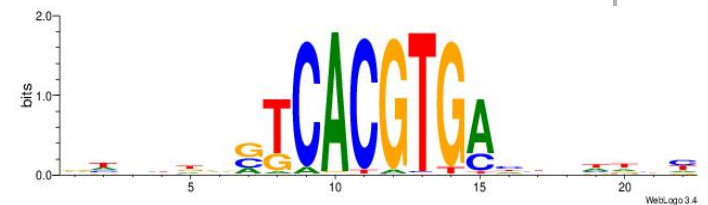
**Original motif**

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



**Reverse complement motif**

Consensus sequence: DDHBHBSTCACGTGAHBBDDHHM




---

Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11



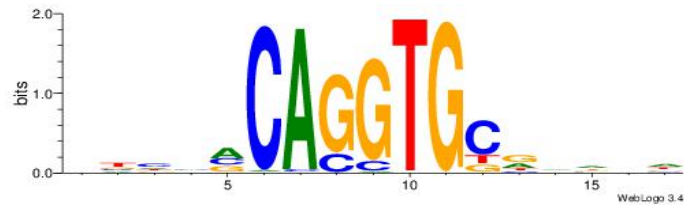
Similarity score: 0.0375583

Alignment:

VBHHVCAGGTGCDVDHD  
---ACCACGTGSTM---

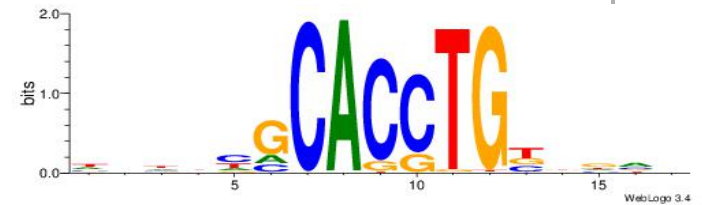
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00046](#)  
Motif name: Tcfe2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0452419

Alignment:

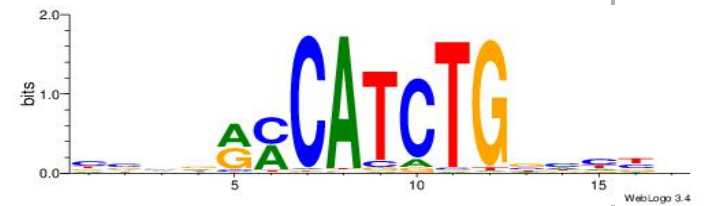
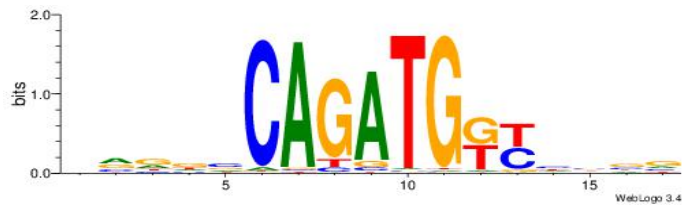
HVDDVCAGATGKYHBBV  
--RASCACGTGGT----

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

Consensus sequence: VBDDMYCATCTGVHBBH



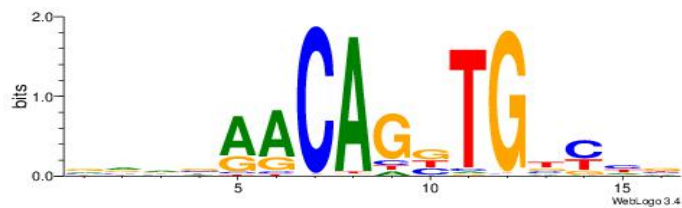
Motif ID: [UP00036](#)  
 Motif name: Myf6\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0471968

**Alignment:**

VVDBAACAGBTGBYHB  
 ---RASCACGTGGT--

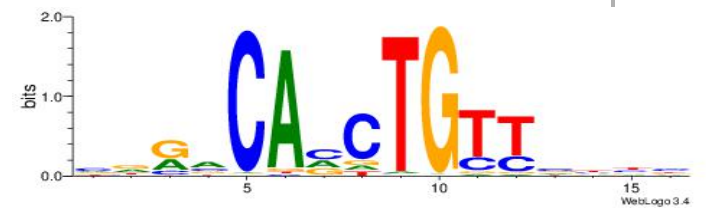
**Original motif**

Consensus sequence: VVDBAACAGBTGBYHB



**Reverse complement motif**

Consensus sequence: BDKVCABCTGTTBDBV



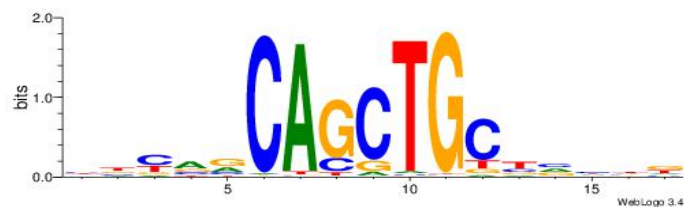
Motif ID: [UP00099](#)  
Motif name: Ascl2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.0504418

Alignment:

```
HHDVVGCAGCTGVBKVB  
---RASCACGTGGT---
```

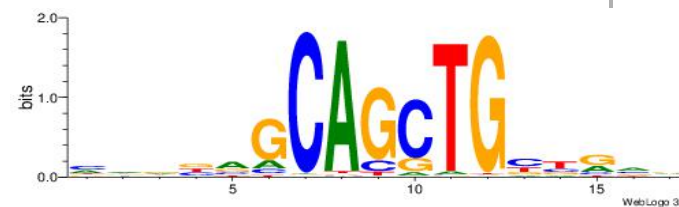
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



---

Motif ID: [UP00084](#)  
Motif name: Gmeb1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3

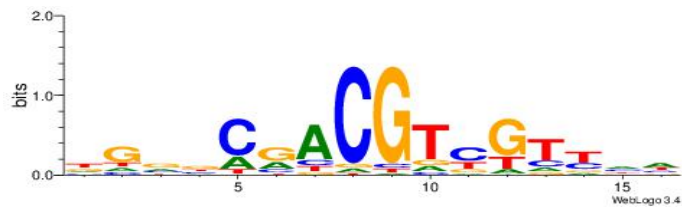
Number of overlap: 11  
Similarity score: 0.0522039

Alignment:

HHMACKACGTMGBVCD  
---ACCACGTGSTM---

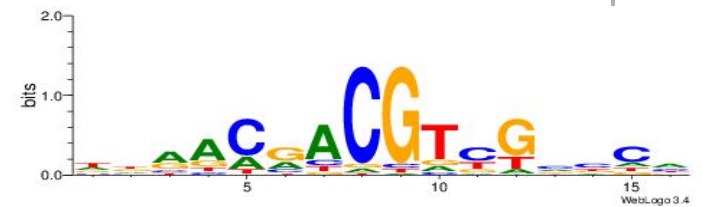
Original motif

Consensus sequence: DGVBCRACGTYGTYHH



Reverse complement motif

Consensus sequence: HHMACKACGTMGBVCD



---

Motif ID: [UP00165](#)  
Motif name: Titf1  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.0554094

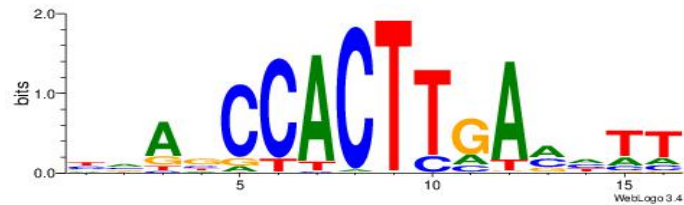
Alignment:

BVABCCACTTGAMHTT  
---ACCACGTGSTM---

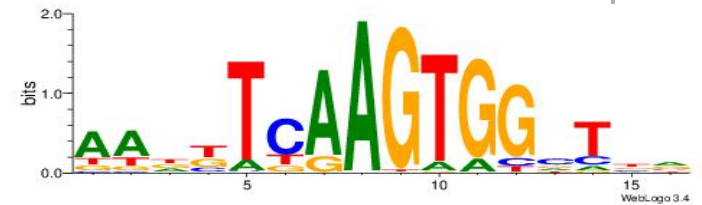
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



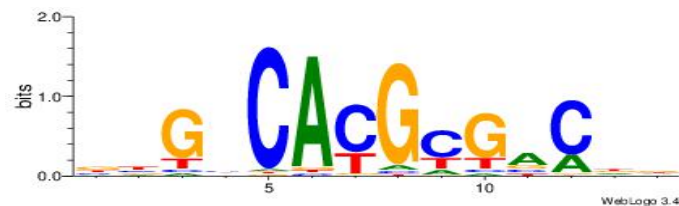
Motif ID: [UP00060](#)  
Motif name: Max\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0557594

Alignment:

HDGTTCGCGTGDCVB  
-RASCACGTGGT--

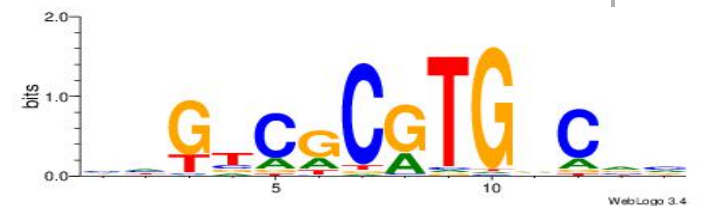
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTTCGCGTGDCVB



**Dataset #: 3**      **Motif ID: 56**      **Motif name: Mycn**

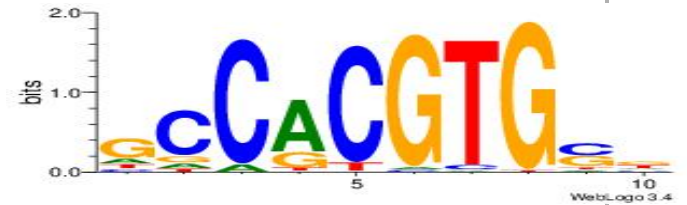
Original motif

Consensus sequence: HSCACGTGGC



Reverse complement motif

Consensus sequence: GCCACGTGSD



### Best Matches for Motif ID 56 (Highest to Lowest)

Motif ID:	<a href="#">UP00060</a>
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

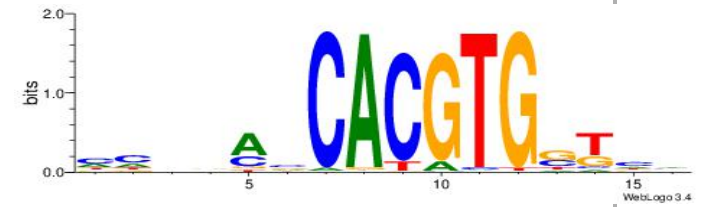
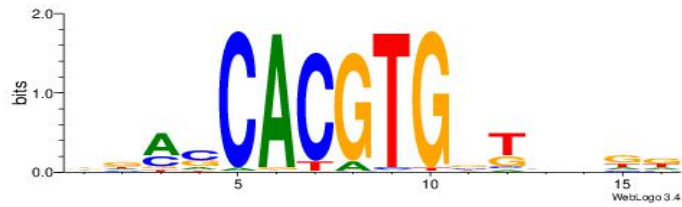
```
DDASCACGTGBTBVDD  
--HSCACGTGGC----
```

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

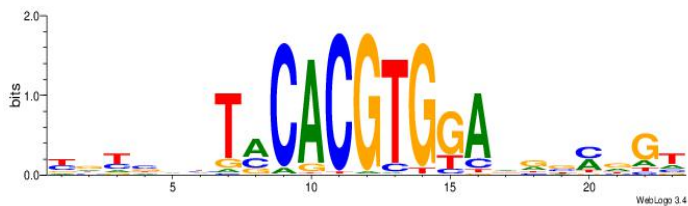


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00783793

Alignment:  
 ACHRBHDTCCACGTGYAHBMHM  
 -----GCCACGTGSD-----

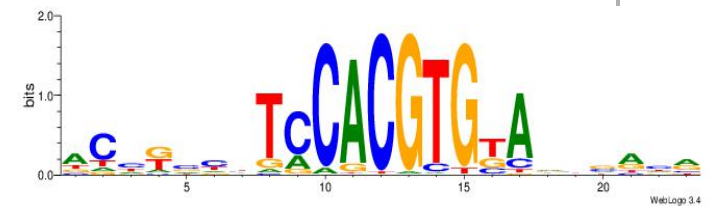
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMHM



Motif ID: [UP00050](#)

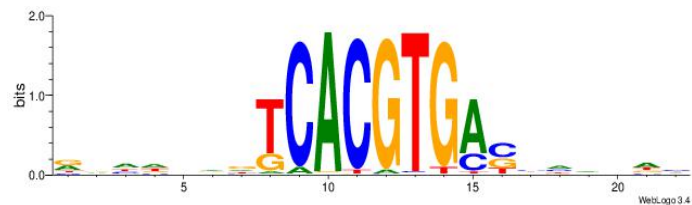
Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0132858

Alignment:

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

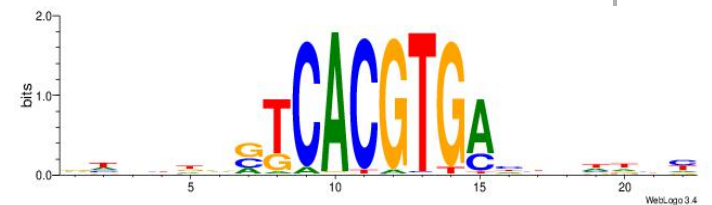
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM




---

Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10



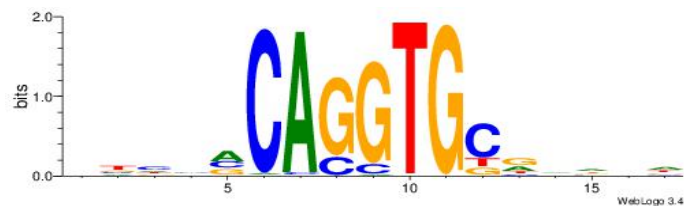
Similarity score: 0.0227933

Alignment:

VBHHVCAGGTGCDVDHD  
---GCCACGTGSD----

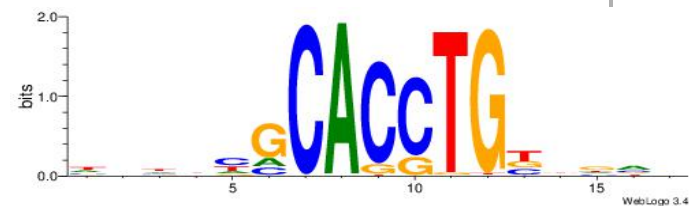
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

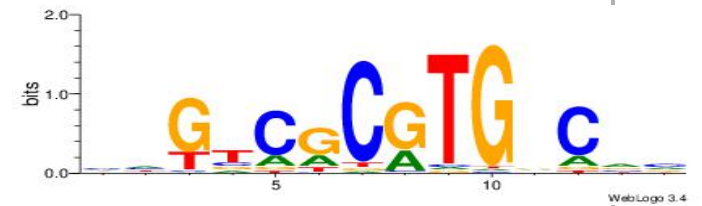
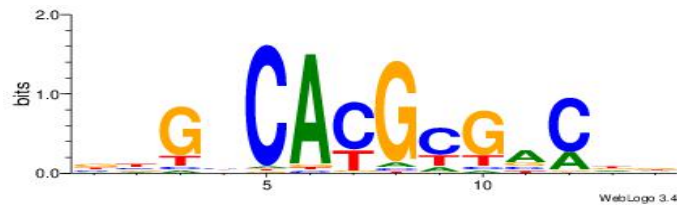
BBGHCACGCGACDD  
--HSCACGTGGC--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



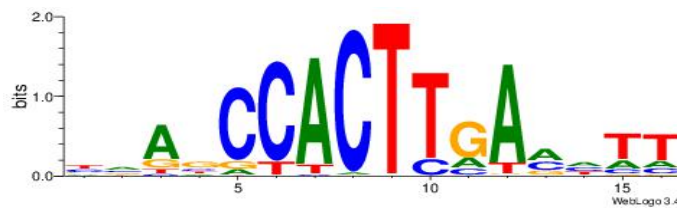
Motif ID: [UP00165](#)  
 Motif name: Titf1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.0344833

**Alignment:**

BVABCCACTTGAMHTT  
 ---GCCACGTGSD---

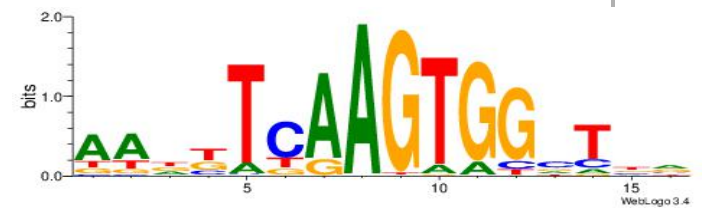
**Original motif**

Consensus sequence: BVABCCACTTGAMHTT



**Reverse complement motif**

Consensus sequence: AAHYTCAAGTGGTBV

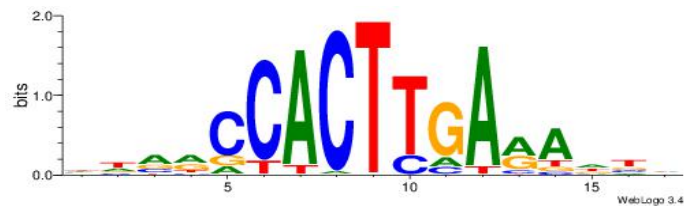


Motif ID: [UP00231](#)  
 Motif name: Nkx2-2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.035228

Alignment:  
 HDVRCCACTTGARABD  
 ---GCCACGTGSD----

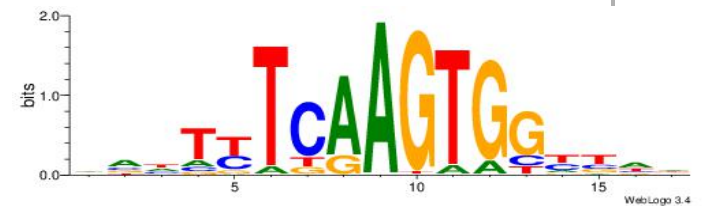
Original motif

Consensus sequence: HDVRCCACTTGARABD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00084](#)  
 Motif name: Gmeb1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4

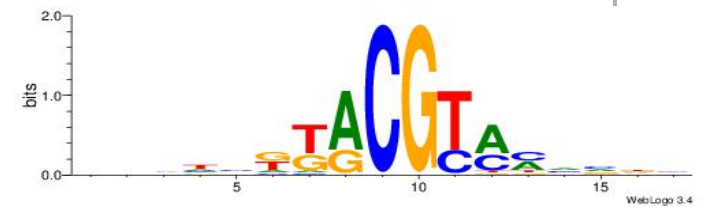
Number of overlap: 10  
Similarity score: 0.0358581

Alignment:  
BVVDVRYACGTRYVBHB  
----GCCACGTGSD---

Original motif  
Consensus sequence: BHBBKACGTMMVDBVB



Reverse complement motif  
Consensus sequence: BVVDVRYACGTRYVBHB



---

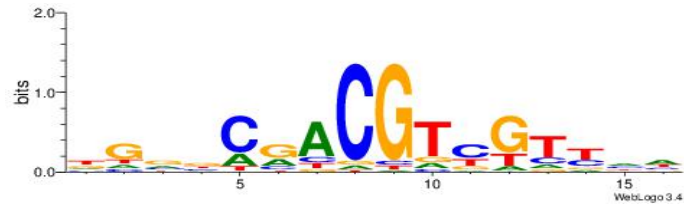
Motif ID: [UP00084](#)  
Motif name: Gmeb1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.03725

Alignment:  
HHMACKACGTMGBVCD  
---HSCACGTGGC---

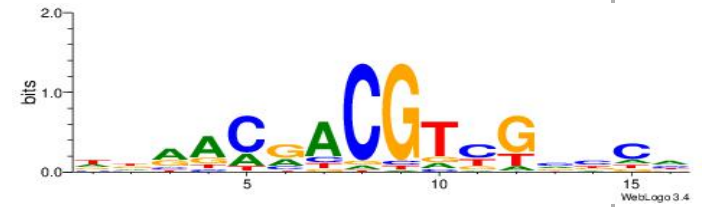
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYHH



Consensus sequence: HHMACKACGTMGBVCD



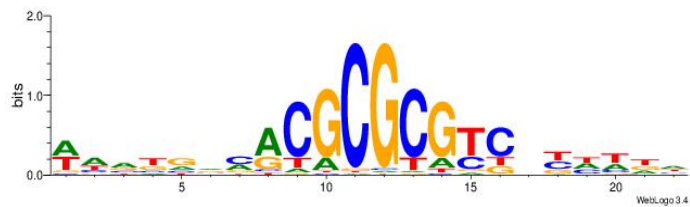
Motif ID: [UP00526](#)  
Motif name: Foxn1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 7  
Number of overlap: 10  
Similarity score: 0.0383187

Alignment:

```
WHVBVVMACGCGCGTCDYHWDH  
-----HSCACGTGGC-----
```

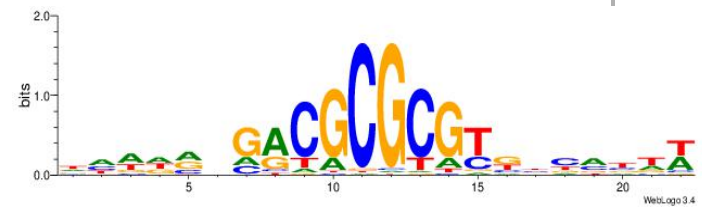
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



**Dataset #: 3**      **Motif ID: 57**      **Motif name: MZF1\_5-13**

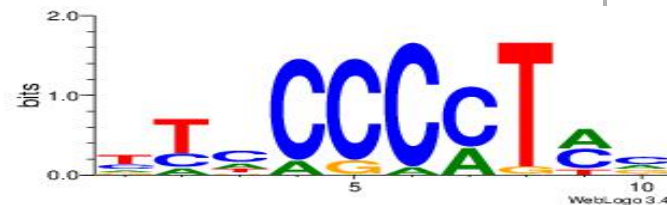
Original motif

Consensus sequence: BKAGGGGDAD



Reverse complement motif

Consensus sequence: BTHCCCCTYB



### Best Matches for Motif ID 57 (Highest to Lowest)

Motif ID: [UP00022](#)  
Motif name: Zfp740\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0090535

Alignment:

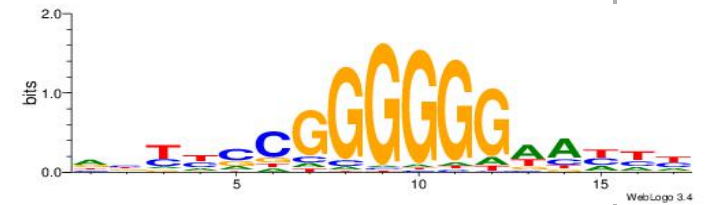
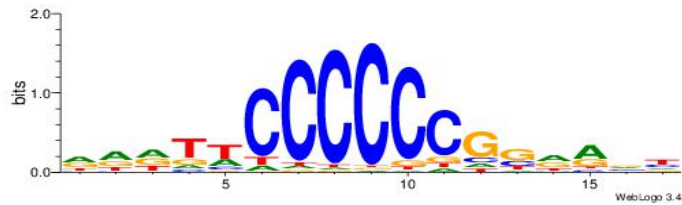
```
DDDTWCCCCCGGDRVH  
---BTHCCCCTYB----
```

Original motif

Consensus sequence: DDDTWCCCCCGGDRVH

Reverse complement motif

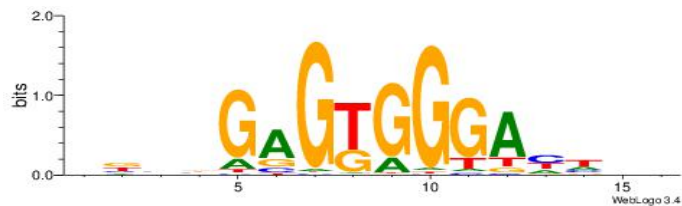
Consensus sequence: HVKDCCGGGGGGWADDD



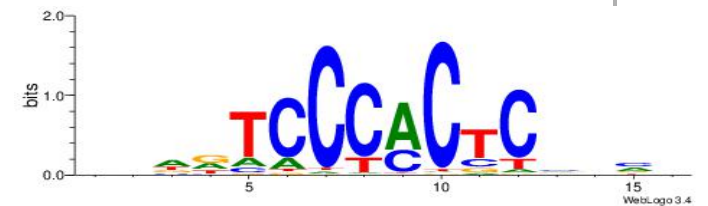
Motif ID: [UP00007](#)  
 Motif name: Egr1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.00910178

Alignment:  
 BBHBGAGTGGGAHHDB  
 ---BKAGGGGDAD---

Original motif  
 Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif  
 Consensus sequence: BHHDTCCTACTCBDBV



Motif ID: [UP00070](#)

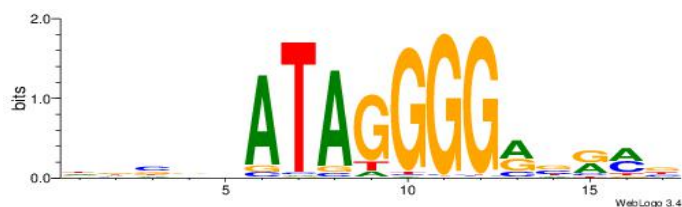
Motif name: Gcm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.0101177

**Alignment:**

DDBVHATAGGGGRBRMB  
 -----BKAGGGGDAD--

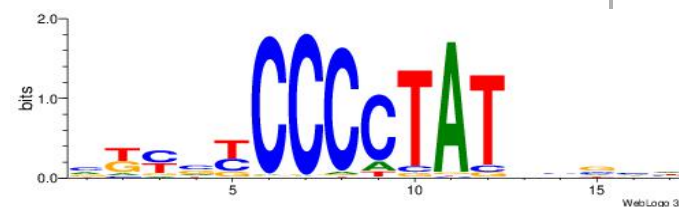
**Original motif**

Consensus sequence: DDBVHATAGGGGRBRMB



**Reverse complement motif**

Consensus sequence: BYMBKCCCCTATDVBHD




---

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: 6  
 Number of overlap: 10



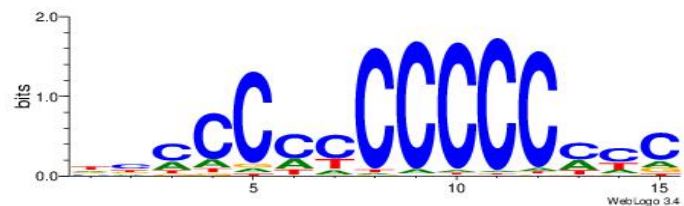
Similarity score: 0.0103225

Alignment:

GKRGGGGGGGGGGBD  
BKAGGGGDAD-----

Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



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: Forward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0126235

Alignment:

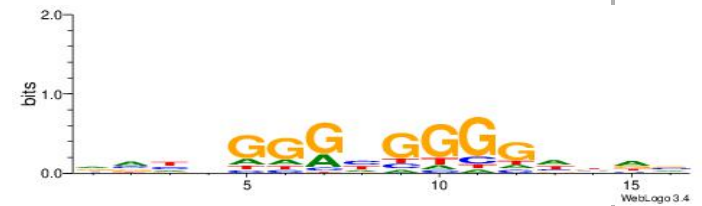
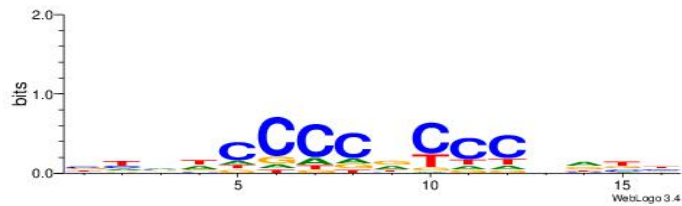
HVDVGGGGHGGGGDBHB  
-----BKAGGGGDAD-

Original motif

Consensus sequence: BHVDCCCDCCCBDBH

Reverse complement motif

Consensus sequence: HVDVGGGGHGGGGDBHB

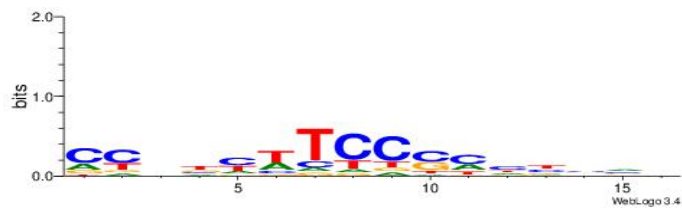


Motif ID: [UP00013](#)  
 Motif name: Gabpa\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.013531

Alignment:  
 DBVVDRSGGAWKVHKG  
 -BKAGGGGDAD-----

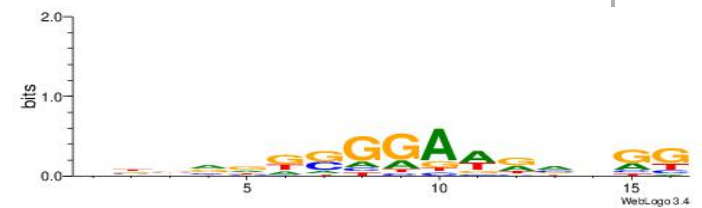
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVVDRSGGAWKVHKG



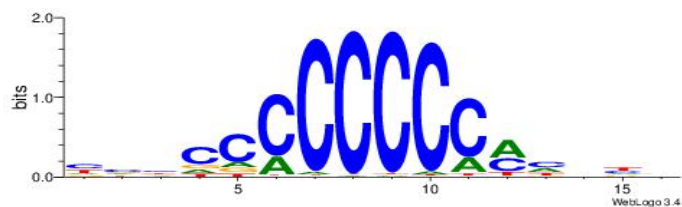
Motif ID: [UP00022](#)  
 Motif name: Zfp740\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.0152996

**Alignment:**

BHHDYGGGGGGGGBVD  
 ---BKAGGGGDAD---

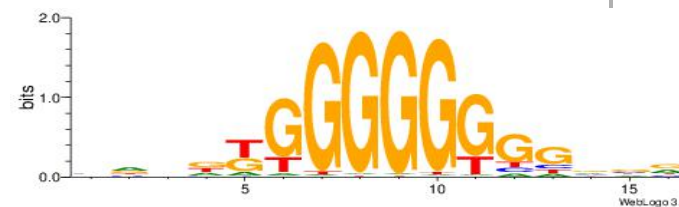
**Original motif**

Consensus sequence: HVBCCCCCCCMHHHB



**Reverse complement motif**

Consensus sequence: BHHDYGGGGGGGGBVD

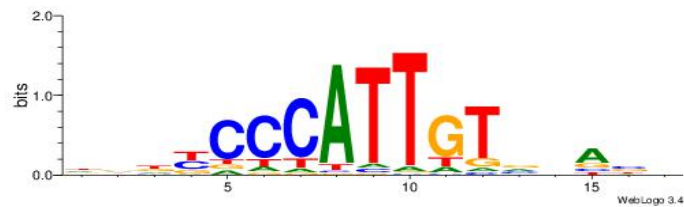


Motif ID: [UP00055](#)  
 Motif name: Hbp1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7

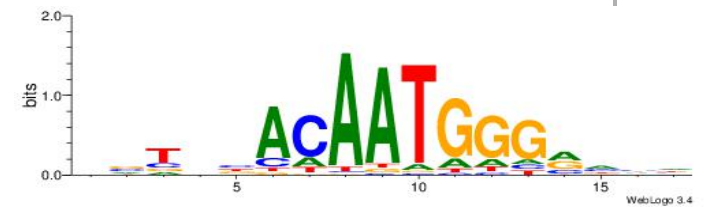
Number of overlap: 10  
Similarity score: 0.0176527

Alignment:  
DDDYCCCATTGTVHABH  
-BTHCCCCTYB-----

Original motif  
Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif  
Consensus sequence: HBTHVACAATGGGMDHD



---

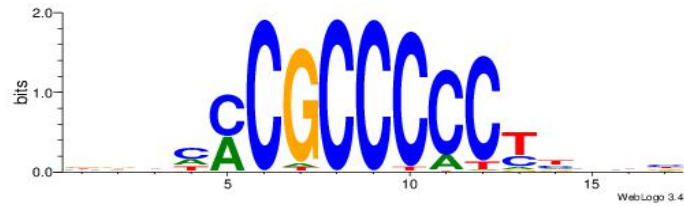
Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0183345

Alignment:  
BDHHMCGCCCCCTHVBB  
-----BTHCCCCTYB--

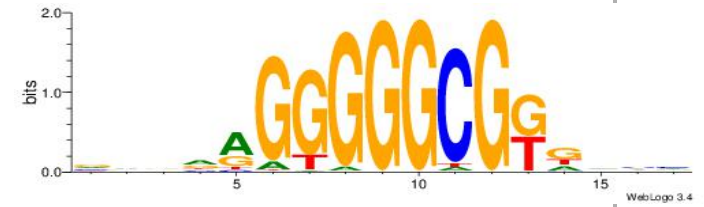
Original motif

Reverse complement motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00239](#)  
Motif name: Obox2  
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: 10  
Similarity score: 0.019782

Alignment:

DBRGGGGGATTAAMTAH  
BKAGGGGDAD-----

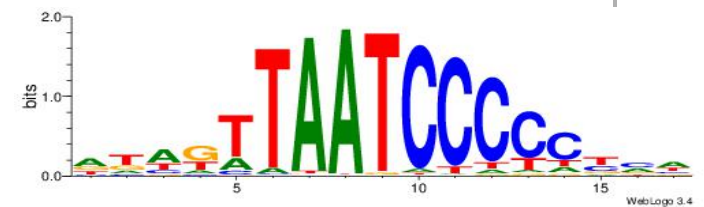
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



**Dataset #: 3**

**Motif ID: 58**

**Motif name: NFKB1**

Original motif

Consensus sequence: GGGGRTTCCCC



Reverse complement motif

Consensus sequence: GGGGAAKCCCC



### Best Matches for Motif ID 58 (Highest to Lowest)

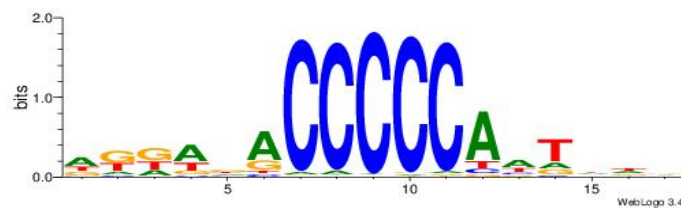
Motif ID:	<a href="#">UP00021</a>
Motif name:	Zfp281_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0371794

Alignment:

```
DKKWDACCCCAHTDDV  
-----GGGGRTTCCCC
```

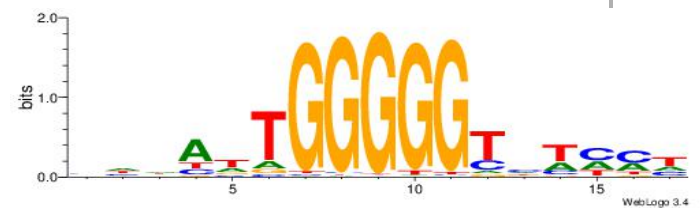
Original motif

Consensus sequence: DKKWDACCCCAHTDDV



Reverse complement motif

Consensus sequence: VDDAHTGGGGGTHWYYD

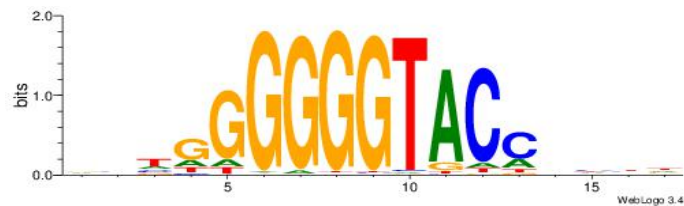


Motif ID: [UP00088](#)  
 Motif name: Plagl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0407901

Alignment:  
 DBHGGGGGGTACCHHHD  
 ----GGGRTTCCCC--

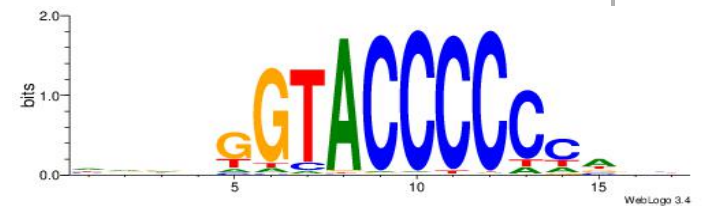
Original motif

Consensus sequence: DBHGGGGGGTACCHHHD



Reverse complement motif

Consensus sequence: DHDDGGTACCCCCCHBH




---

Motif ID: [UP00088](#)  
 Motif name: Plagl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3

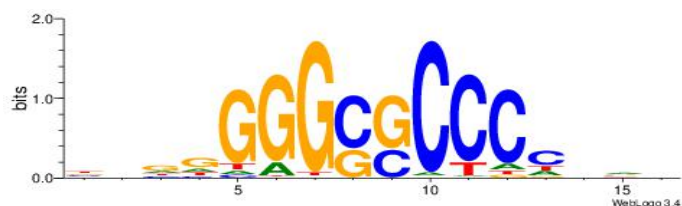
Number of overlap: 11  
Similarity score: 0.0459696

Alignment:

BHDGGGGSSCCCCBVV  
--GGGRTTCCCC---

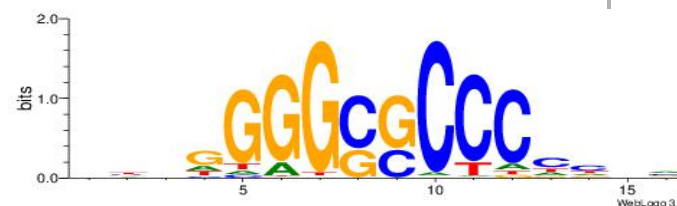
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCCHHV



---

Motif ID: [UP00176](#)  
Motif name: Crx  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0464973

Alignment:

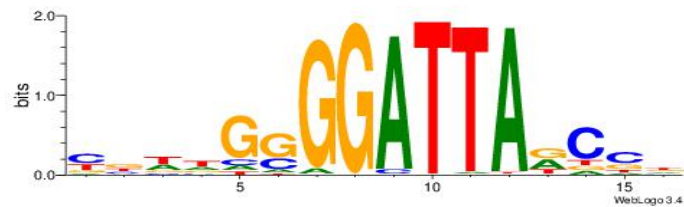
DGGMTAATCCCCDWBK  
-GGGGAAKCCCC----

Original motif

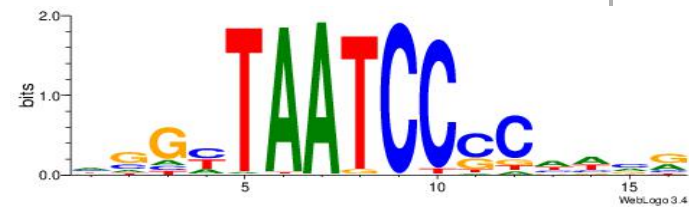
Reverse complement motif



Consensus sequence: YBWDGGGGATTARCCD



Consensus sequence: DGGMTAATCCCCDWBK



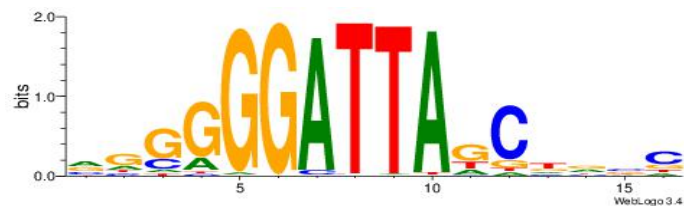
Motif ID: [UP00265](#)  
Motif name: Pitx3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.048533

Alignment:

```
GBHDGCTAATCCCCCB  
---GGGGAAKCCCC--
```

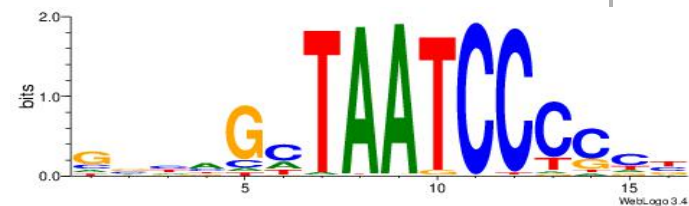
Original motif

Consensus sequence: VGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



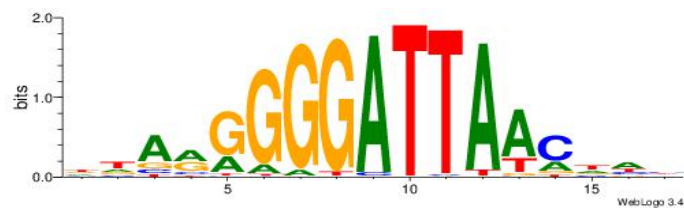
Motif ID: [UP00216](#)  
Motif name: Obox1  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 11  
Similarity score: 0.0502644

Alignment:

```
DHDGTTAATCCCCKTDD  
--GGGGAAKCCCC-----
```

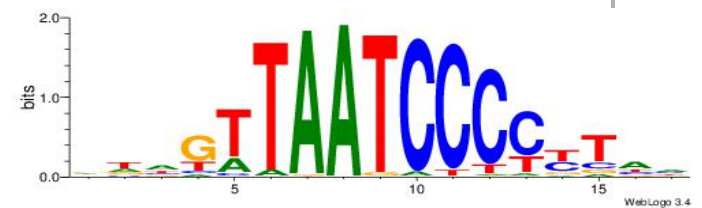
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



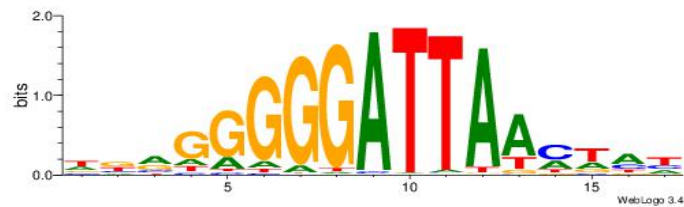
---

Motif ID: [UP00239](#)  
Motif name: Obox2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5

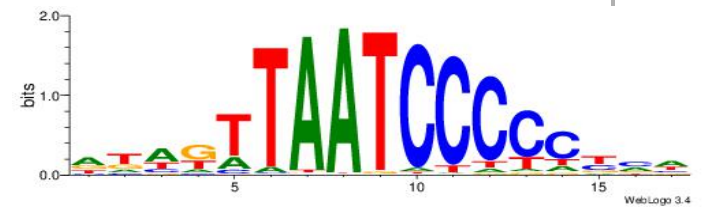
Number of overlap: 11  
Similarity score: 0.0515498

Alignment:  
HTARTTAATCCCCCKBD  
--GGGGAAKCCCC----

Original motif  
Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif  
Consensus sequence: HTARTTAATCCCCCKBD



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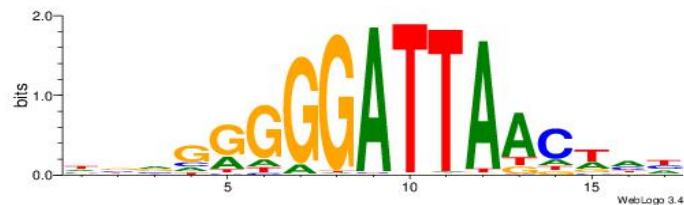
Motif ID: [UP00160](#)  
Motif name: Obox3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0520605

Alignment:  
HHWGTTAATCCCCBBH  
--GGGGAAKCCCC----

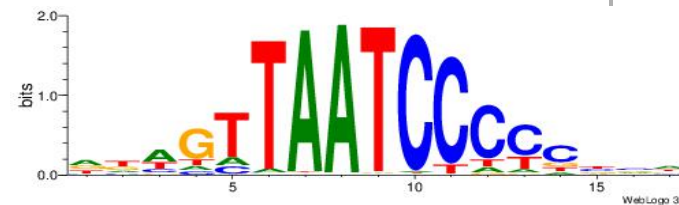
Original motif

Reverse complement motif

Consensus sequence: HBVGGGGGATTAACWHH



Consensus sequence: HHWGTTAATCCCCBBH



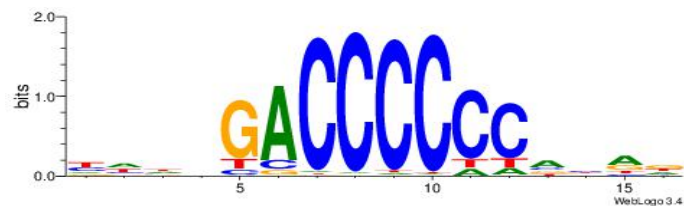
Motif ID: [UP00024](#)  
Motif name: Glis2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 11  
Similarity score: 0.052761

Alignment:

```
HKBBGGGGGGTTCVHHH  
-----GGGRTTCCCC
```

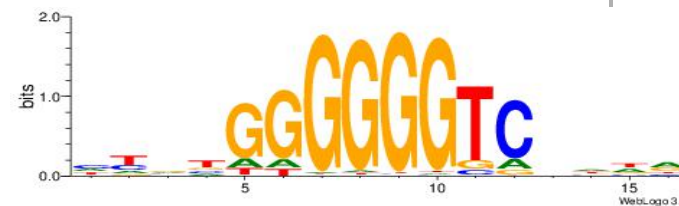
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTTCVHHH



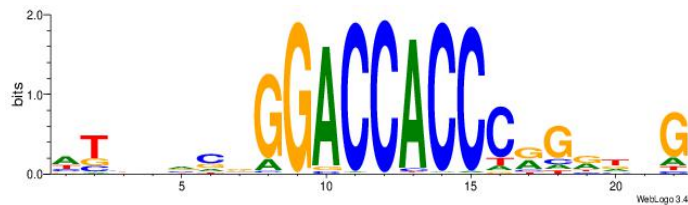
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 11  
 Similarity score: 0.0555704

Alignment:

CBDMCMGGGTGGTCCHVBVBAH  
 -----GGGGAAKCCCC-----

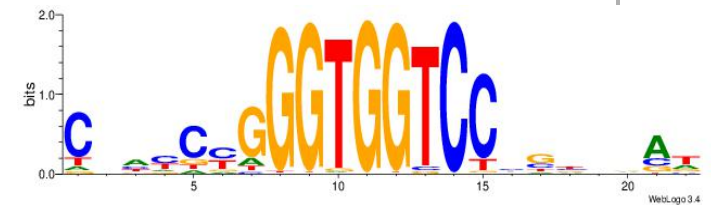
Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



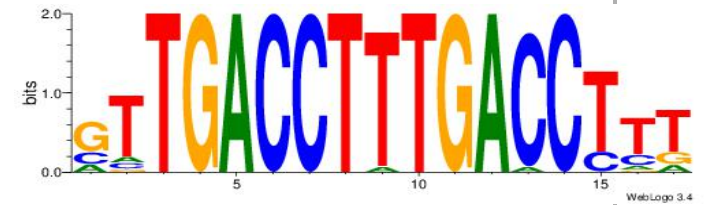
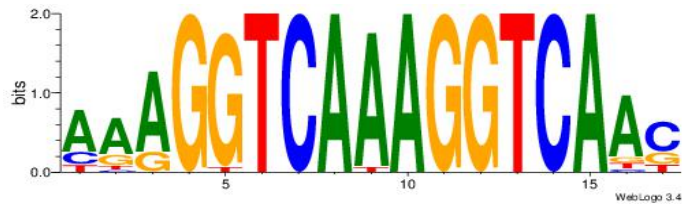
**Dataset #: 3      Motif ID: 59      Motif name: NR1H2RXRA**

Original motif

Consensus sequence: AAAGGTCAAAGGTCAAC

Reverse complement motif

Consensus sequence: GTTGACCTTTGACCTTT

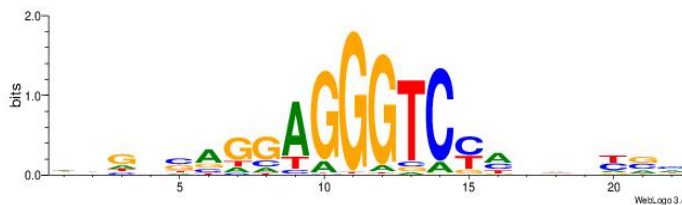


**Best Matches for Motif ID 59 (Highest to Lowest)**

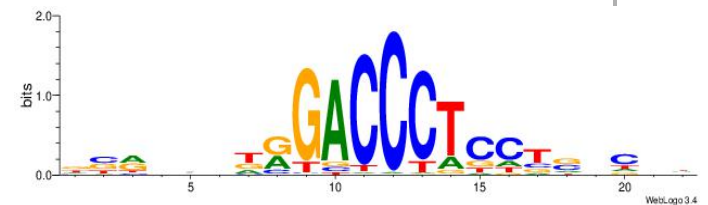
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0538452

Alignment:  
 DVMHHDHKGACCCTCCTSVCBH  
 -----GTTGACCTTTGACCTTT

Original motif  
 Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif  
 Consensus sequence: DVMHHDHKGACCCTCCTSVCBH




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Motif ID: [UP00032](#)

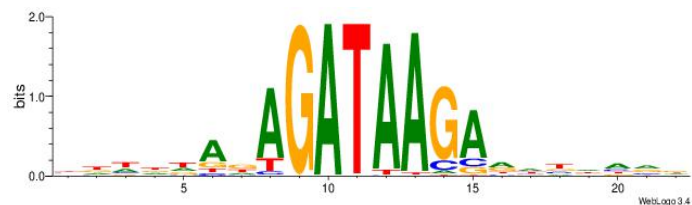
Motif name: Gata3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0545098

Alignment:

BDHDDADAGATAAGADHBDHVD  
 -----AAAGGTCAAAGGTCAAC

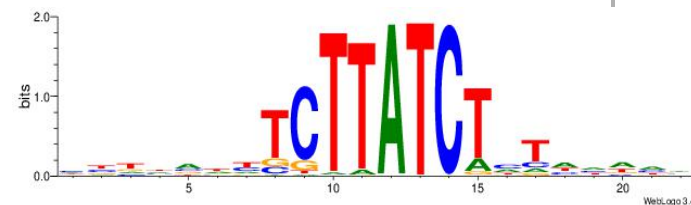
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV




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Motif ID: [UP00067](#)  
 Motif name: Lef1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 16

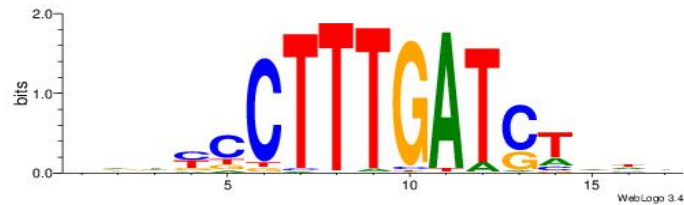
Similarity score: 0.521114

Alignment:

VDDAGATCAAAGGKDDD-  
-AAAGGTCAAAGGTCAAC

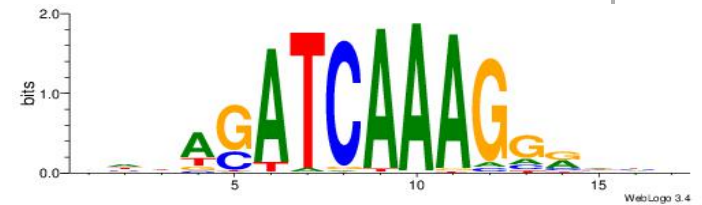
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00083](#)  
Motif name: Tcf7l2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 16  
Similarity score: 0.527825

Alignment:

BDDASATCAAAGGMDDD-  
-GTTGACCTTTGACCTTT

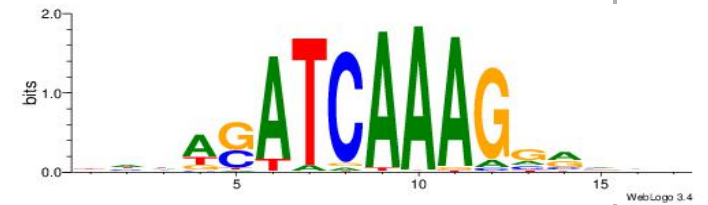
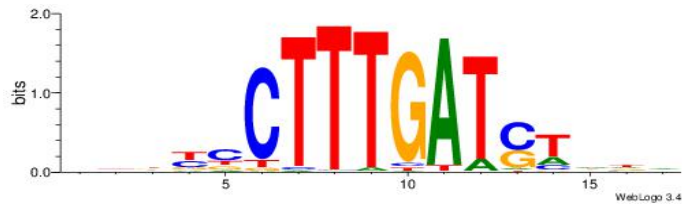
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD

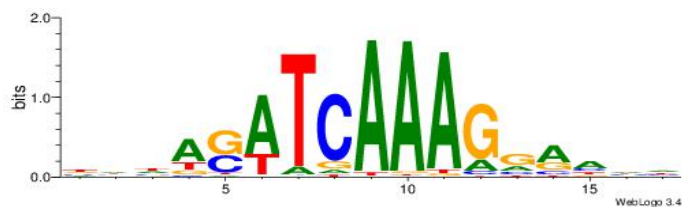




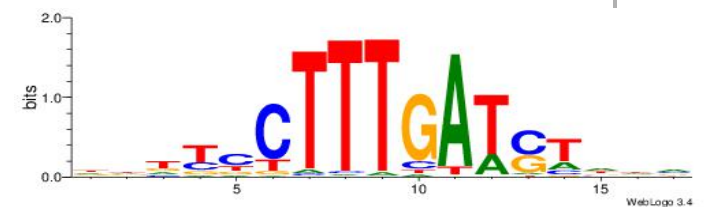
Motif ID: [UP00054](#)  
 Motif name: Tcf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 16  
 Similarity score: 0.531154

Alignment:  
 BHHASATCAAAGGAHHH-  
 -AAAGGTCAAAGGTCAAC

Original motif  
 Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif  
 Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00058](#)

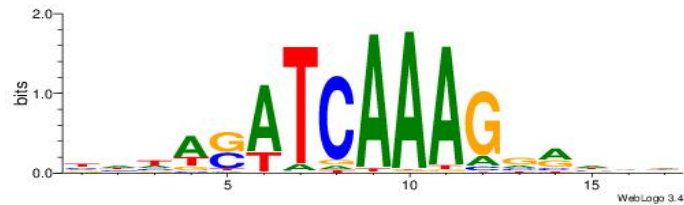
Motif name: Tcf3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 16  
Similarity score: 0.531876

Alignment:

-HHHASATCAAAGVRHHH  
AAAGGTCAAAGGTCAAC-

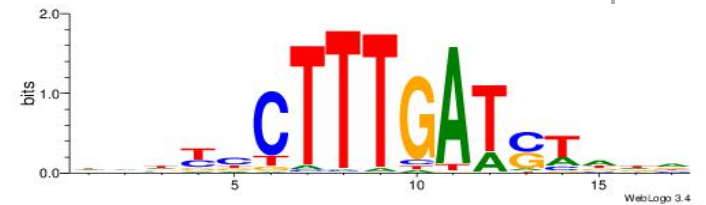
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



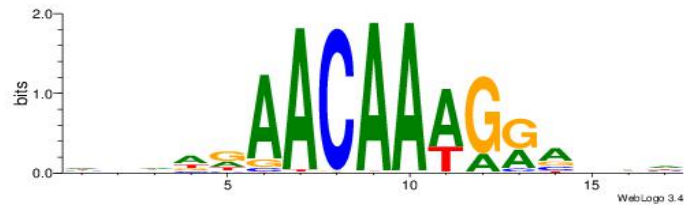
Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 16  
Similarity score: 0.544403

Alignment:

HBDDRAACAAAGRABHH-  
-AAAGGTCAAAGGTCAAC

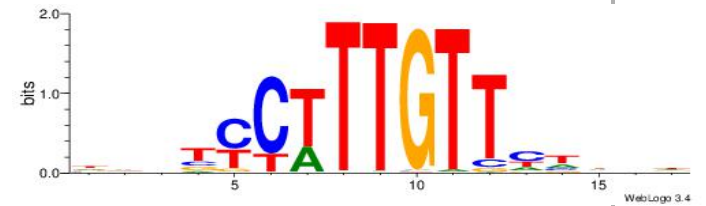
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHTMCTTTGTTMDDVH



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Motif ID:	<a href="#">UP00062</a>
Motif name:	Sox4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.544565

Alignment:

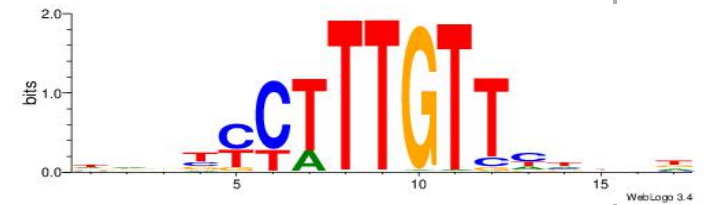
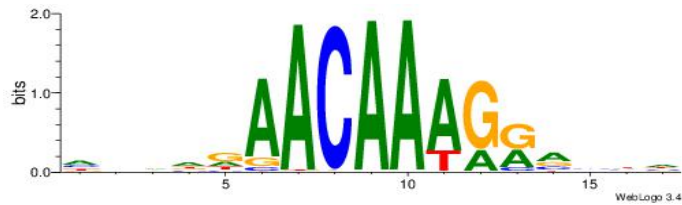
-HHBBMCTTTGTTTHDDBH  
GTTGACCTTTGACCTTT-

Original motif

Consensus sequence: HBDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH

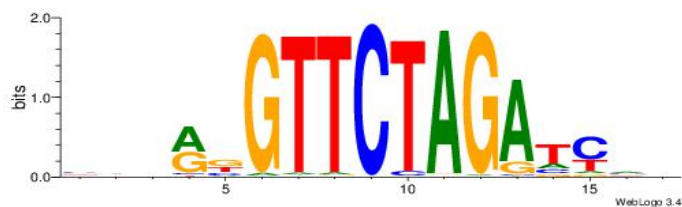


Motif ID: [UP00019](#)  
 Motif name: Zbtb12\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 16  
 Similarity score: 0.550511

Alignment:  
 -BBGATCTAGAACBKHDB  
 GTTGACCTTTGACCTTT-

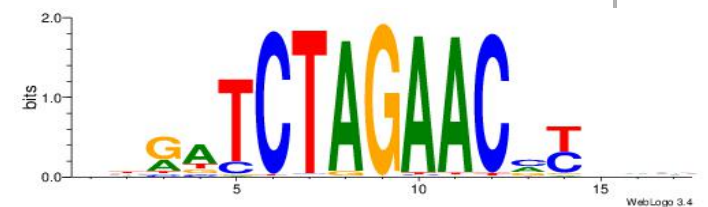
Original motif

Consensus sequence: BDHRBGTTCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



Motif ID: [UP00046](#)

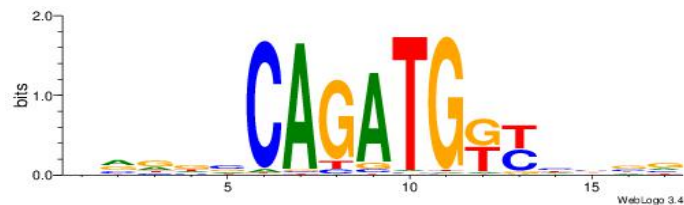
Motif name: Tcfe2a\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 16  
 Similarity score: 0.552064

**Alignment:**

-HVDDVCAGATGKYHBBV  
 AAAGGTCAAAGGTCAAC-

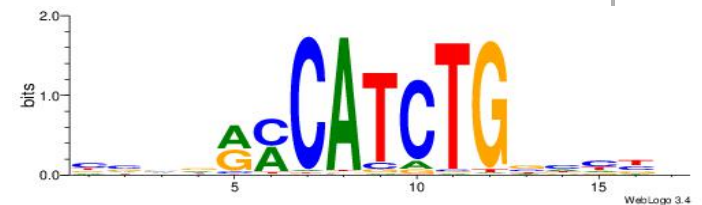
**Original motif**

Consensus sequence: HVDDVCAGATGKYHBBV



**Reverse complement motif**

Consensus sequence: VBBDMYCATCTGVHBBH




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**Dataset #: 3      Motif ID: 60      Motif name: NR4A2**

**Original motif**

Consensus sequence: AAGGTCAC

**Reverse complement motif**

Consensus sequence: GTGACCTT



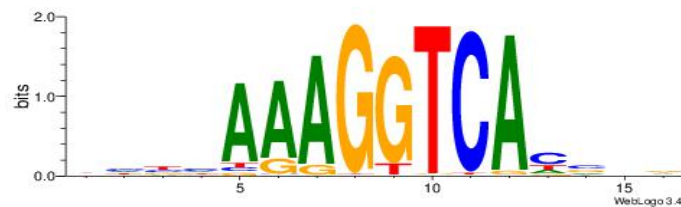
### Best Matches for Motif ID 60 (Highest to Lowest)

Motif ID: [UP00048](#)  
 Motif name: Rara  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0

Alignment:  
 DHBHAAAGGTCACVHD  
 -----AAGGCAC----

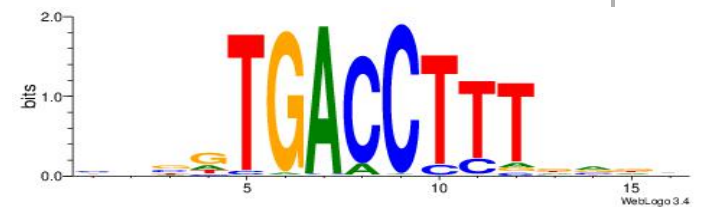
#### Original motif

Consensus sequence: DHBHAAAGGTCACVHD



#### Reverse complement motif

Consensus sequence: HHVGTGACCTTDDVDD

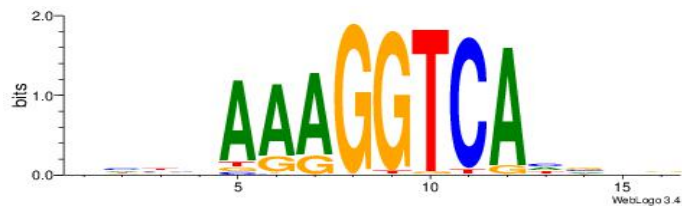


Motif ID: [UP00009](#)  
 Motif name: Nr2f2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0074527

Alignment:  
 DHBHAAAGGTCAHVHB  
 -----AAGGTCAC---

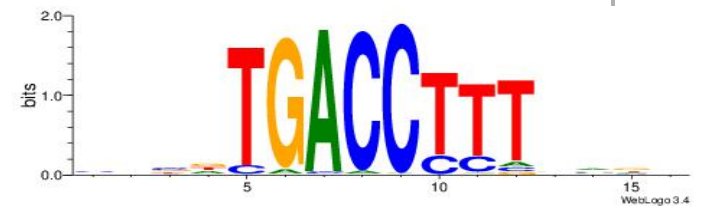
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD

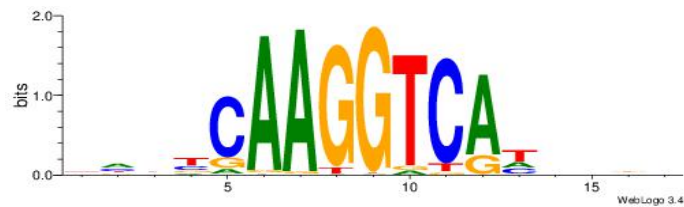


Motif ID: [UP00079](#)  
 Motif name: Esrra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5

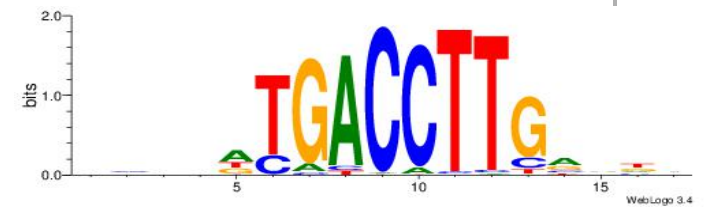
Number of overlap: 8  
Similarity score: 0.01542

Alignment:  
DHDBCAAGGTCAHVBDH  
-----AAGGTCAC-----

Original motif  
Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif  
Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID: [UP00009](#)  
Motif name: Nr2f2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.0395644

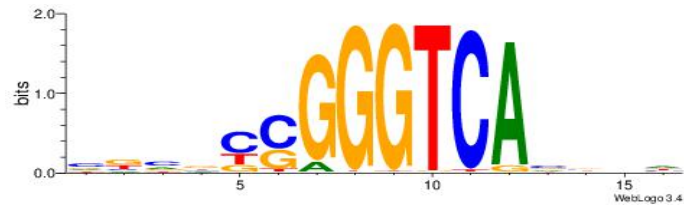
Alignment:  
VBVBCSGGGTCAVBBH  
-----AAGGTCAC---

Original motif

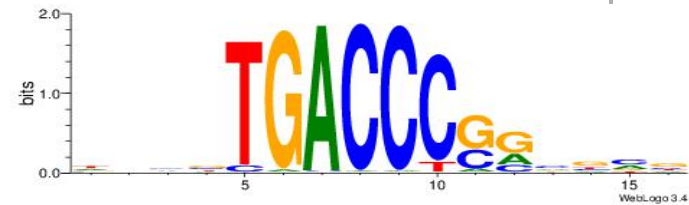
Reverse complement motif



Consensus sequence: VBVB<sup>C</sup>SGGGTCAVBBH



Consensus sequence: HVBVTGACCCSGBVBV



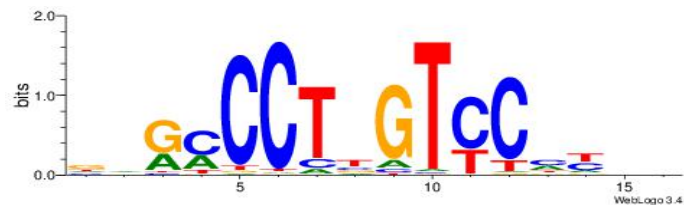
Motif ID: [UP00082](#)  
Motif name: Zfp187\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 8  
Similarity score: 0.0407874

Alignment:

```
DDGMCCTBGTCCHYHV  
GTGACCTT-----
```

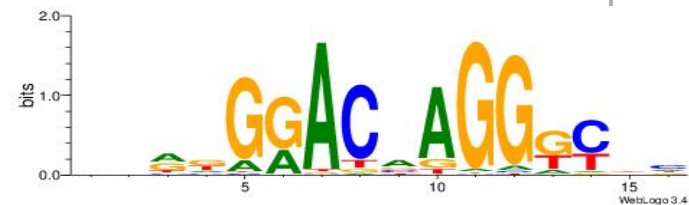
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH

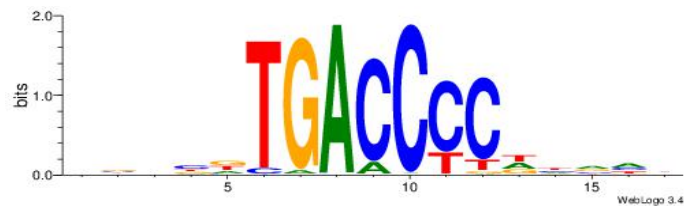


Motif ID: [UP00053](#)  
Motif name: Rxra\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0422933

Alignment:  
DBHBDTGACCCCDHVHB  
----GTGACCTT-----

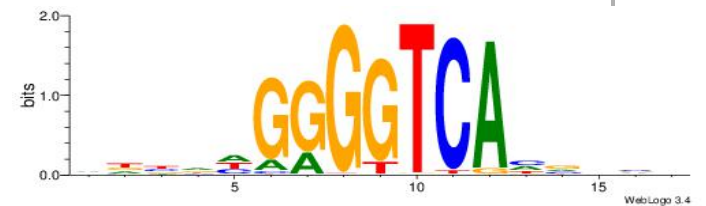
#### Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



#### Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHD



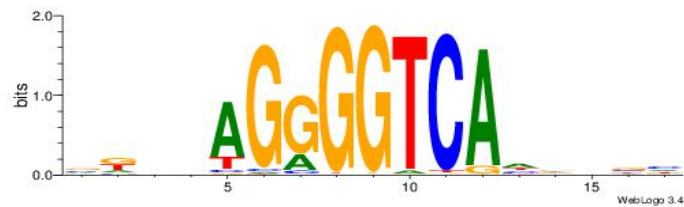
---

Motif ID: [UP00079](#)  
Motif name: Esrra\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5

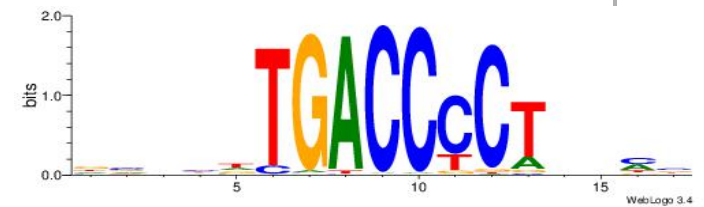
Number of overlap: 8  
Similarity score: 0.0447444

Alignment:  
VKBBAGGGGTCAHDBBH  
-----AAGGTCAC-----

Original motif  
Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif  
Consensus sequence: DBBHHTGACCCCTBBYV



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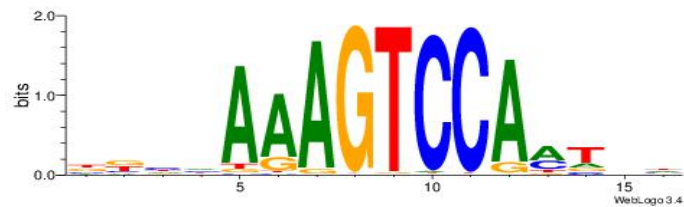
Motif ID: [UP00066](#)  
Motif name: Hnf4a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 8  
Similarity score: 0.0481418

Alignment:  
BBHHAAAGTCCAMTHH  
-----AAGGTCAC---

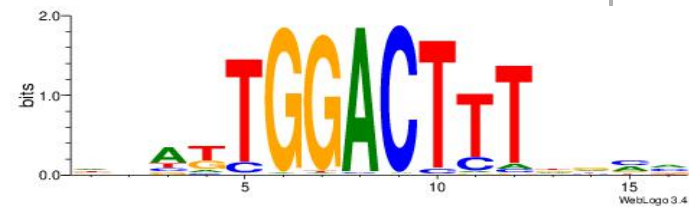
Original motif

Reverse complement motif

Consensus sequence: BBHHAAGTCCAMTHH



Consensus sequence: HHAYTGGACTTTHDBV



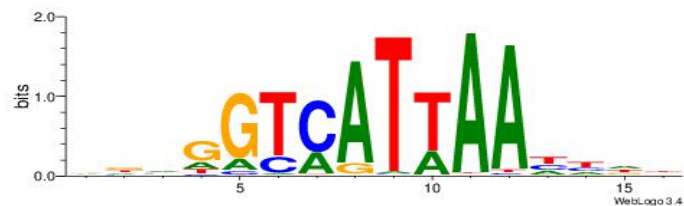
Motif ID: [UP00197](#)  
Motif name: Hoxc9  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.0497679

Alignment:

```
VDHHTTAATGACCBHV  
-----GTGACCTT--
```

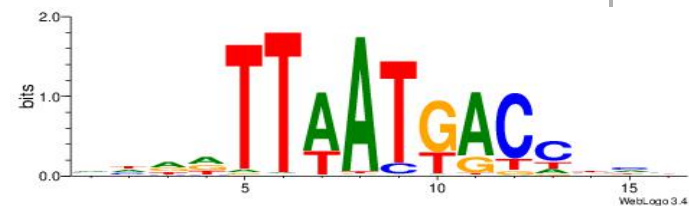
Original motif

Consensus sequence: VDVGGTCATTAAHHDB



Reverse complement motif

Consensus sequence: VDHHTTAATGACCBHV

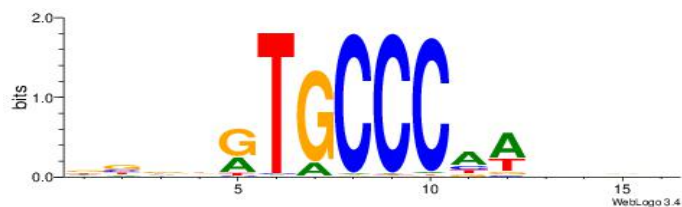


Motif ID: [UP00035](#)  
 Motif name: Hic1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.0500062

Alignment:  
 DBDDRTGCCCAWDHDV  
 ----GTGACCTT----

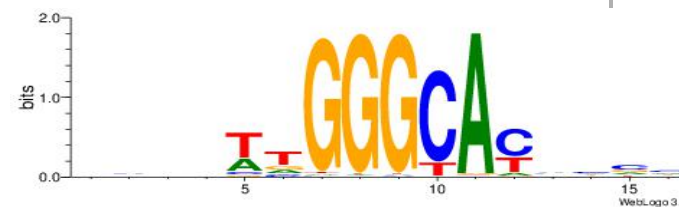
Original motif

Consensus sequence: DBDDRTGCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH




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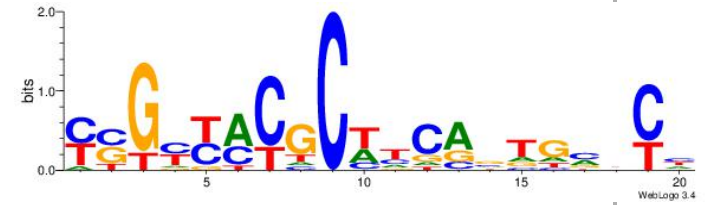
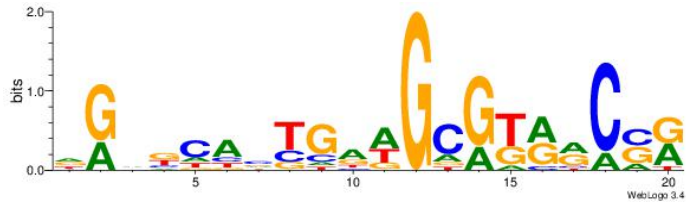
**Dataset #: 3      Motif ID: 61      Motif name: Pax5**

Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR

Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBCD

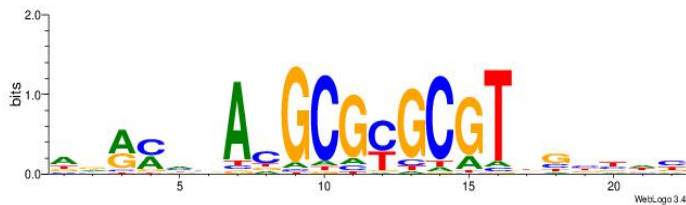


### Best Matches for Motif ID 61 (Highest to Lowest)

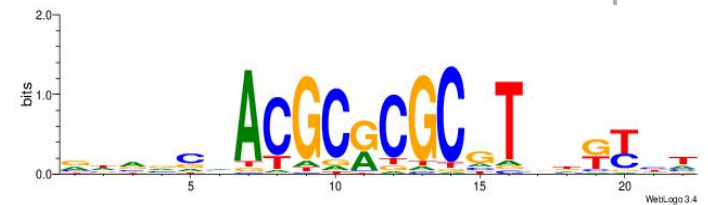
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0499537

Alignment:  
 DDRMHBACGCGYGCGTDGBBDB  
 -DGVBCABTGDWGCGRRCR-

Original motif  
 Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif  
 Consensus sequence: BDVBCDACGCKCGCTBHRKHD



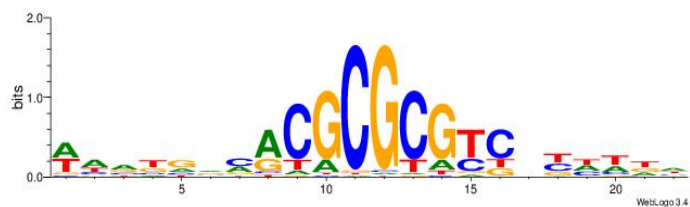
Motif ID: [UP00526](#)  
Motif name: Foxn1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.0520196

Alignment:

HDWHMHGACGCGCGTRBVVBHW  
DGVBCABTGDWGCGRRCR--

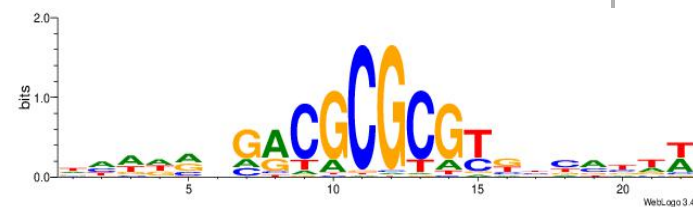
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



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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: Backward  
Position number: 2

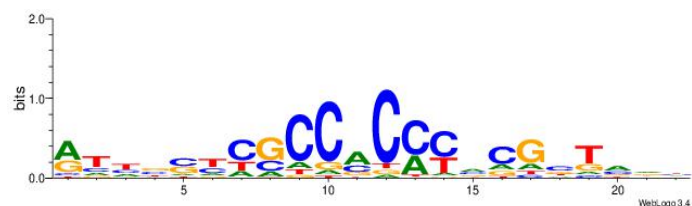
Number of overlap: 20  
Similarity score: 0.0542764

**Alignment:**

HDBABCGBKRGYGGCGMSBHAK  
-DGVCABTGDWGCGRCSR-

**Original motif**

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



**Reverse complement motif**

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



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Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 20  
Similarity score: 0.0560636

**Alignment:**

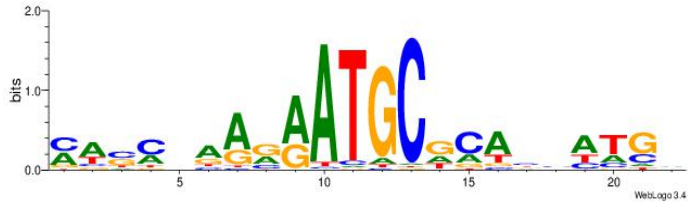
DCATDBTGHGCATKMTTBR  
--MSGKKRCGCWDCABTG  
BCD

**Original motif**

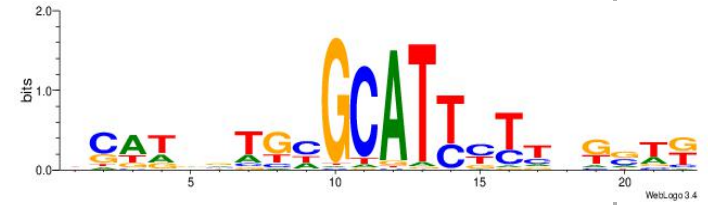
**Reverse complement motif**



Consensus sequence: MWSMBAARRATGDCABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



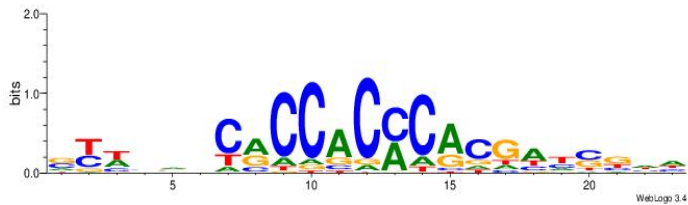
Motif ID: [UP00540](#)  
Motif name: Gli3\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.0595671

Alignment:

```
HHBSHTCGTGRGTGGKGDBVWMV  
DGVBCABTGDWCGKRRCSR---
```

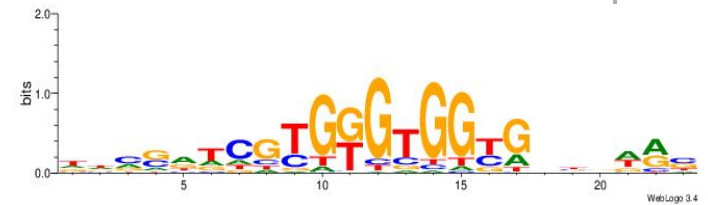
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



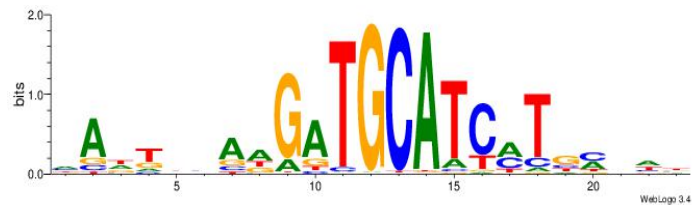
Motif ID: [UP00528](#)  
Motif name: Foxm1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.0602559

Alignment:

```
HADTBVADGATGCATCMTGMVHB  
DGVBCABTGDWGCGRRCR---
```

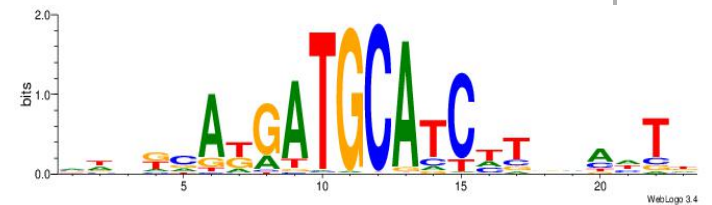
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



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Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4

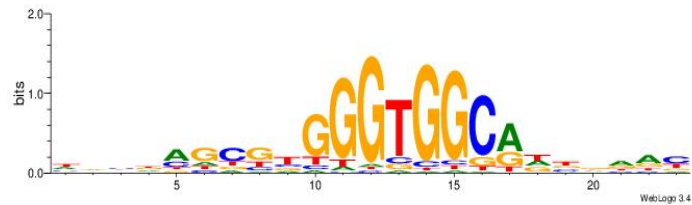
Number of overlap: 20  
Similarity score: 0.0607506

**Alignment:**

HVBDAGCGBGGGTGGCRDBDDDB  
DGVBCABTGDWCGKRRCR---

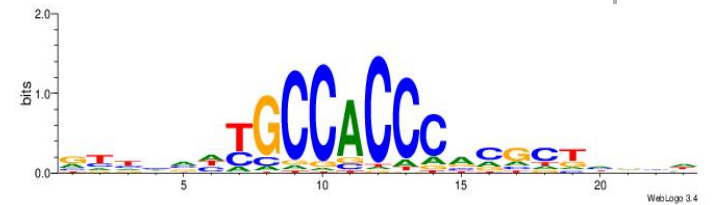
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



---

Motif ID: [UP00098](#)  
Motif name: Rfx3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 20  
Similarity score: 0.0611227

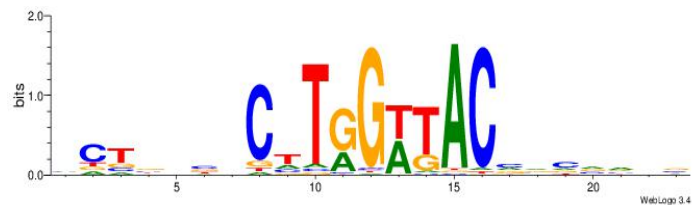
**Alignment:**

BDBBVVGTAWCCAAGVBHBAGB  
MSGKKRCGCWDCABTGBCD---

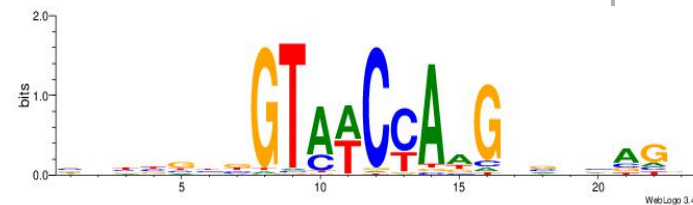
**Original motif**

**Reverse complement motif**

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



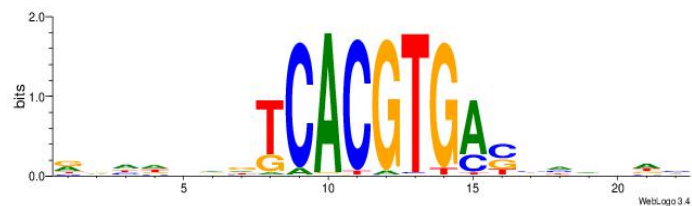
Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 20  
Similarity score: 0.0611361

Alignment:

RDHDBVDTACGTGASBHVHDH  
--MSGKKRCGCWDCABTGBCD

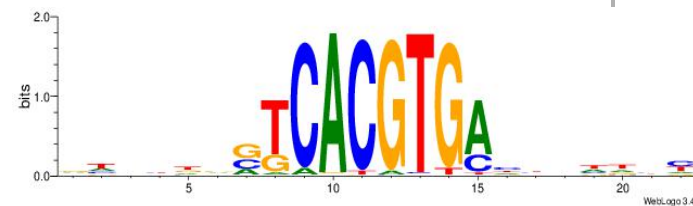
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMM



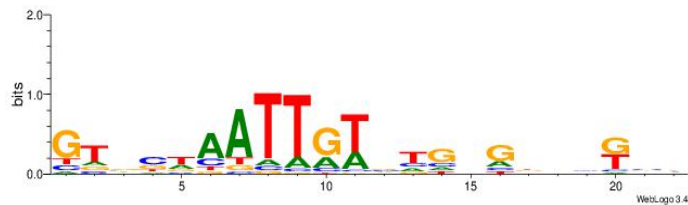
Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 20  
Similarity score: 0.061403

Alignment:

GTVBDAATTGTVTGHGDDHKVB  
DGVBCABTGDWCGKRRCSR--

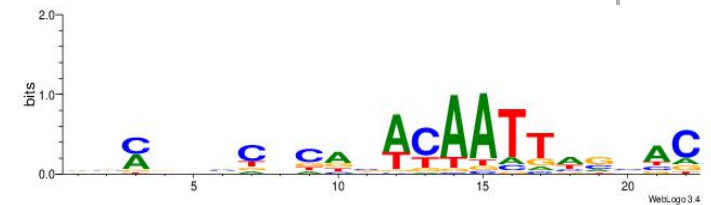
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



---

**Dataset #: 3**      **Motif ID: 62**      **Motif name: RORA\_1**

Original motif

Consensus sequence: AWVDAGGTCA

Reverse complement motif

Consensus sequence: TGACCTDVWT



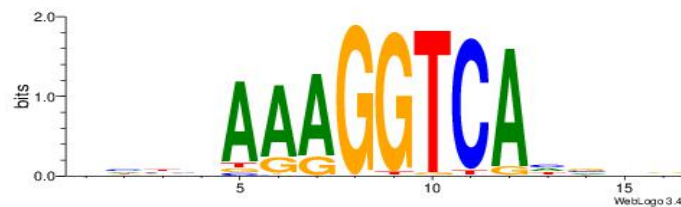
### Best Matches for Motif ID 62 (Highest to Lowest)

Motif ID: [UP00009](#)  
 Motif name: Nr2f2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0154749

Alignment:  
 DHBHAAAGGTCAHVHB  
 --AWVDAGGTCA----

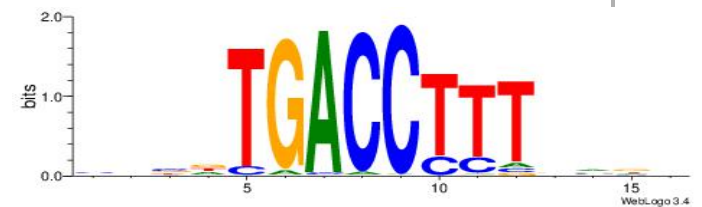
#### Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



#### Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD

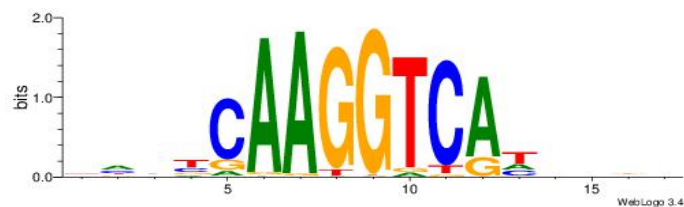


Motif ID: [UP00079](#)  
 Motif name: Esrra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.0176661

Alignment:  
 HHBVHTGACCTTGVDHD  
 -----TGACCTDVWT--

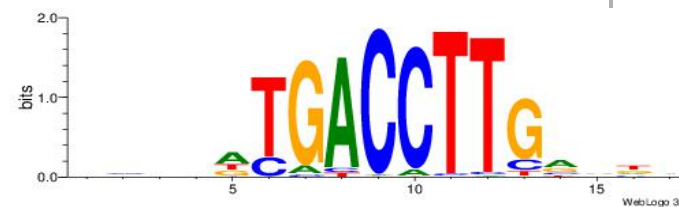
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

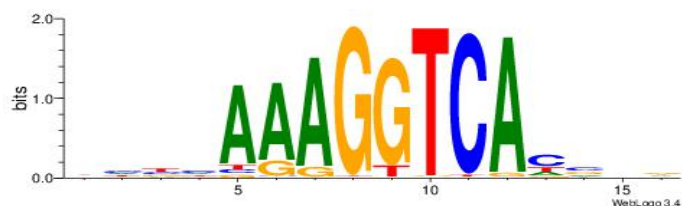


Motif ID: [UP00048](#)  
 Motif name: Rara  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3

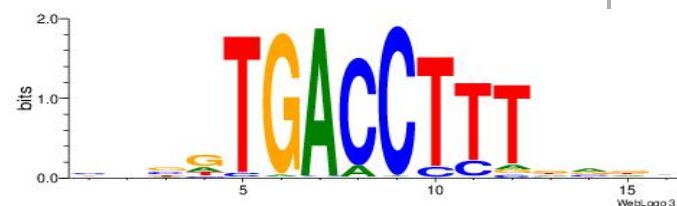
Number of overlap: 10  
Similarity score: 0.0189599

Alignment:  
DHBHAAAGGTCACVHD  
--AWVDAGGTCA----

Original motif  
Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif  
Consensus sequence: HHVGTGACCTTTDVDD



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Motif ID: [UP00009](#)  
Motif name: Nr2f2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.0331999

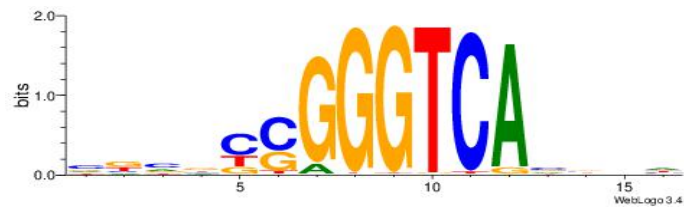
Alignment:  
VBVBCSGGGTCAVBBH  
--AWVDAGGTCA----

Original motif

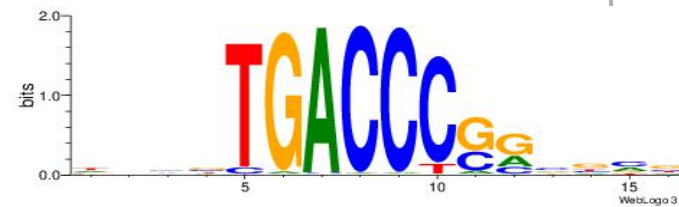
Reverse complement motif



Consensus sequence: VBVB<sup>c</sup>CSGGGTCAVBBH



Consensus sequence: HVBVTGACCCSGBVBV



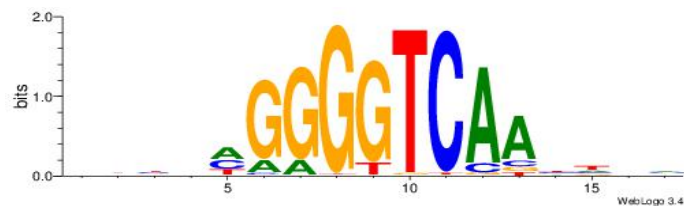
Motif ID: [UP00066](#)  
Motif name: Hnf4a\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0341771

Alignment:

```
BDBVMGGGGTCAABHDV  
--AWVDAGGTCA-----
```

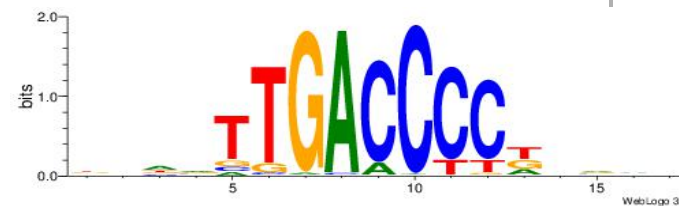
Original motif

Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD<sup>B</sup>



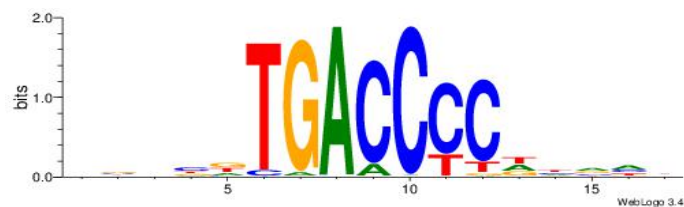
Motif ID: [UP00053](#)  
Motif name: Rxra\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0363566

Alignment:

```
DBHBDTGACCCCDHVHB  
-----TGACCTDVWT--
```

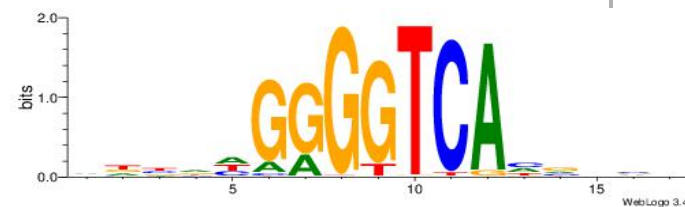
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHD



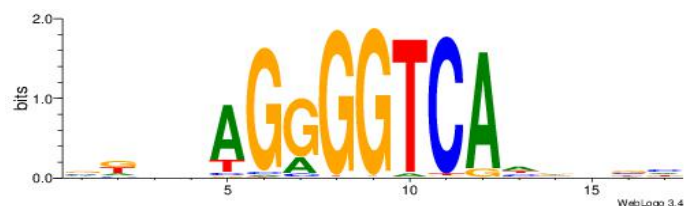
---

Motif ID: [UP00079](#)  
Motif name: Esrra\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3

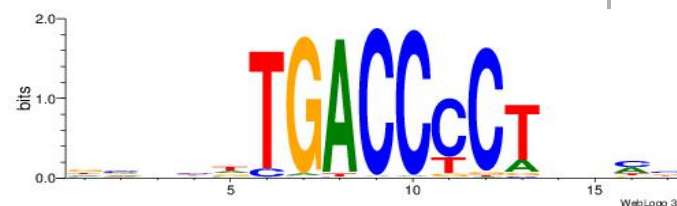
Number of overlap: 10  
Similarity score: 0.0391284

Alignment:  
VKBBAGGGGTCAHDBBH  
--AWVDAGGTCA-----

Original motif  
Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif  
Consensus sequence: DBBHHTGACCCCTBBYV



---

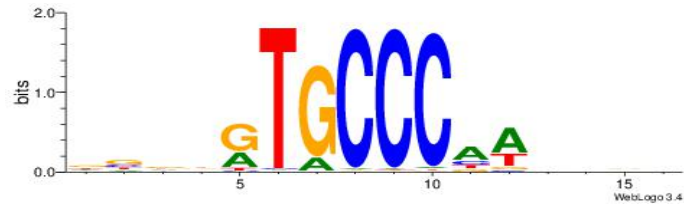
Motif ID: [UP00035](#)  
Motif name: Hic1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 10  
Similarity score: 0.0444205

Alignment:  
DBDDRGTGCCCAWDHDV  
-----TGACCTDVWT-

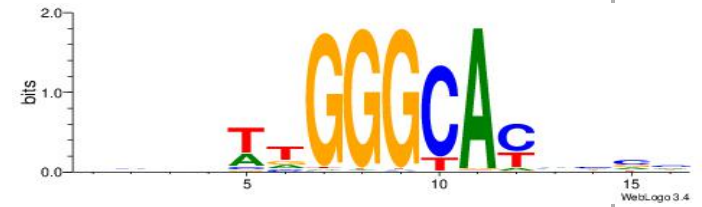
Original motif

Reverse complement motif

Consensus sequence: DBDDRTGCCCAWDHDV



Consensus sequence: VHHDWTGGGCAMDHBH



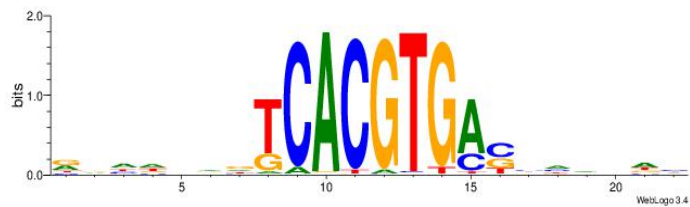
Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 10  
Similarity score: 0.0461434

Alignment:

```
DDHBHBSTCACGTGAHBBDDHBM  
AWVDAGGTCA-----
```

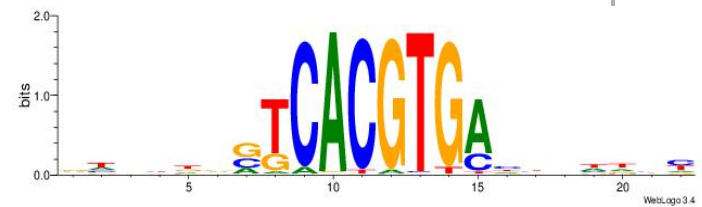
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDDHBM



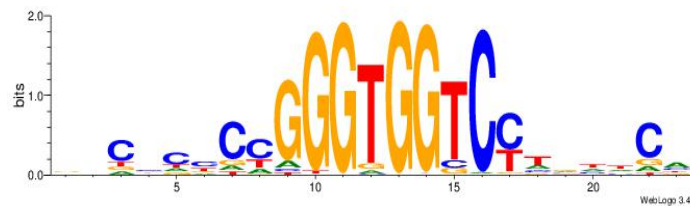
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0489571

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH  
 -----TGACCTDVWT--

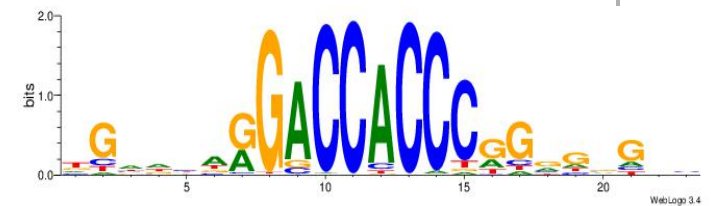
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB




---

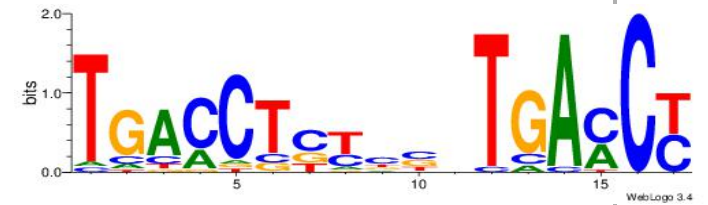
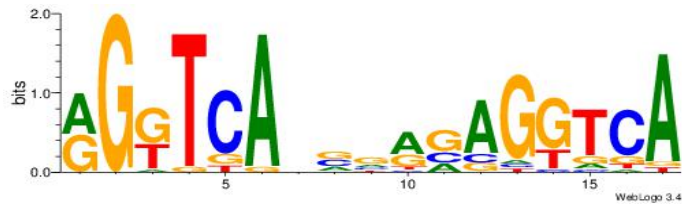
**Dataset #: 3      Motif ID: 63      Motif name: RXRRAR\_DR5**

Original motif

Consensus sequence: RGKTCABVVRGAGGTCA

Reverse complement motif

Consensus sequence: TGACCTCKVVBGTGAYCK

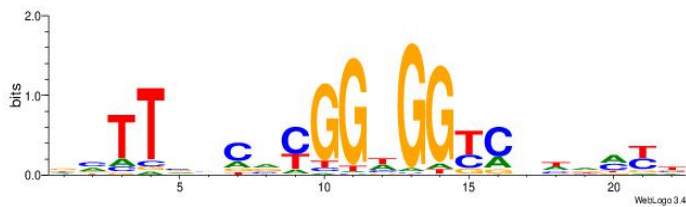


**Best Matches for Motif ID 63 (Highest to Lowest)**

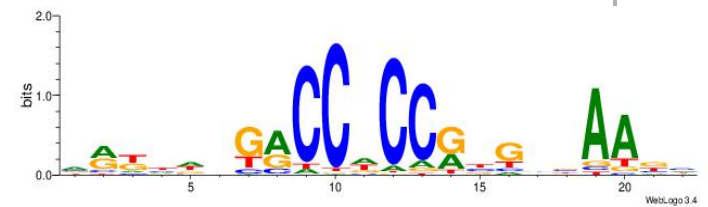
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0585087

Alignment:  
 DVTTVVCVYGGHGGYCHHDMYB  
 RGKTCABVVRGAGGTCA-----

Original motif  
 Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif  
 Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH




---

Motif ID: [UP00034](#)

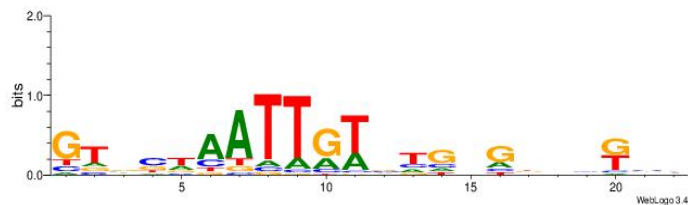
Motif name: Sox7\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0709955

Alignment:

GTVBDAATTGTVTGHGDDHKVB  
 -----RGKTCABVVRGAGGTCA

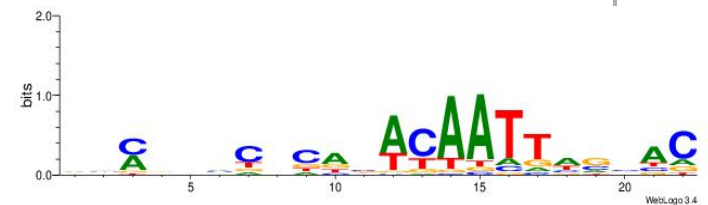
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC




---

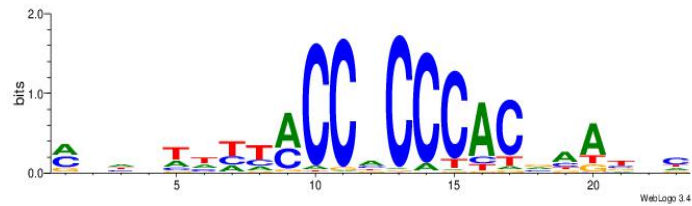
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.075055

Alignment:

MHHHWHYTMCCCHCCCACVAABVH  
RGKTCABVVRGAGGTCA-----

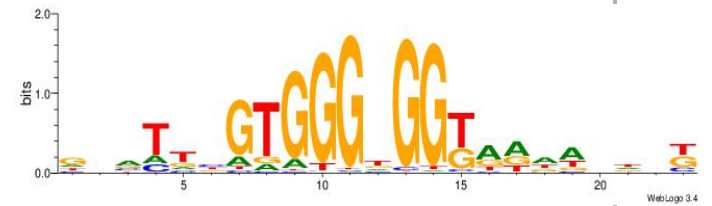
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



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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: 7  
Number of overlap: 17  
Similarity score: 0.0758824

Alignment:

BBBDVVRGACCACCCAVGABBAB  
-----RGKTCABVVRGAGGTCA

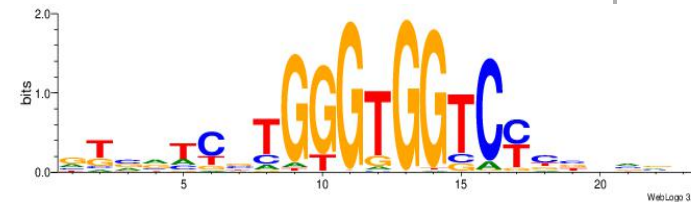
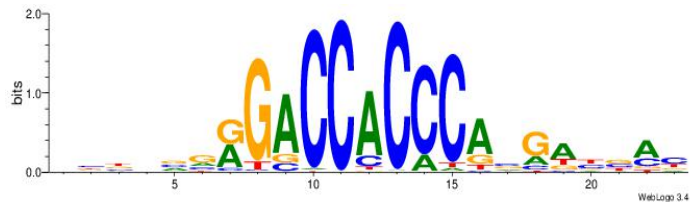
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



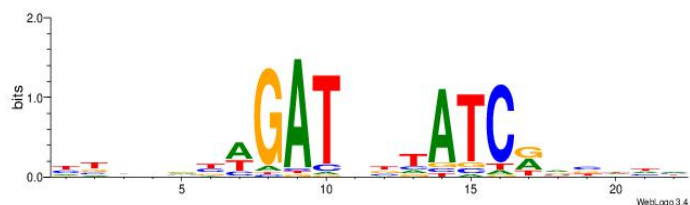


Motif ID: [UP00032](#)  
 Motif name: Gata3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 17  
 Similarity score: 0.0759953

Alignment:  
 HBHDVBWGATHBTATCRVBHHH  
 TGACCTCKVVB TGAYCK-----

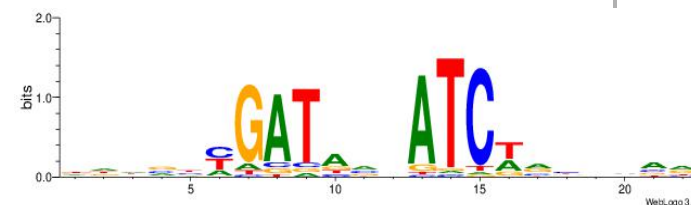
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Motif ID: [UP00539](#)

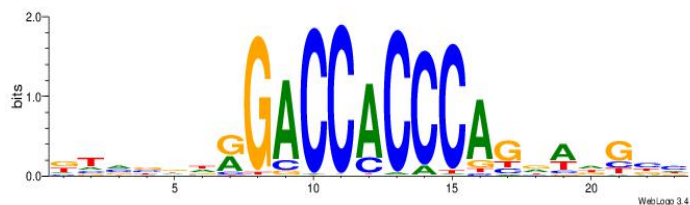
Motif name: Gli2\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0760211

**Alignment:**

DTVBDDRGACCACCCAGDWDGBH  
 -----RGKTCABVVRGAGGTCA

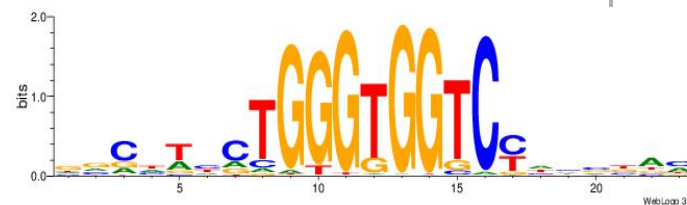
**Original motif**

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



**Reverse complement motif**

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAAH




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Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 17

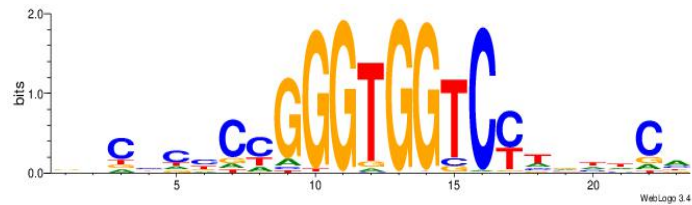
Similarity score: 0.0763398

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH  
TGACCTCKVVB TGAYCK-----

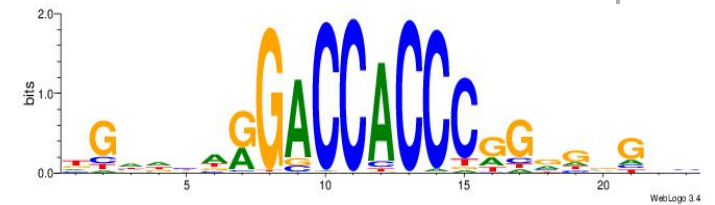
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



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: 1  
Number of overlap: 17  
Similarity score: 0.0768658

Alignment:

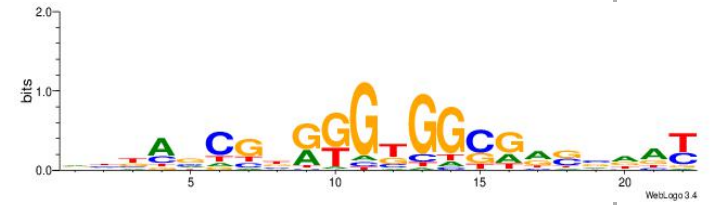
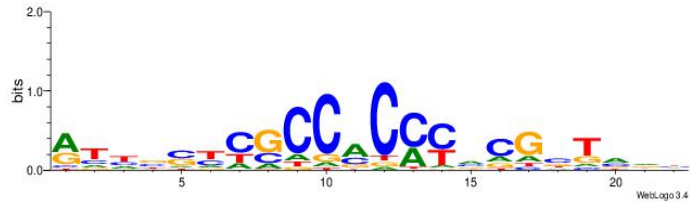
RTHBSYCGCCMCMYVCGBTVDH  
RGKTCABVVRGAGGTCA-----

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

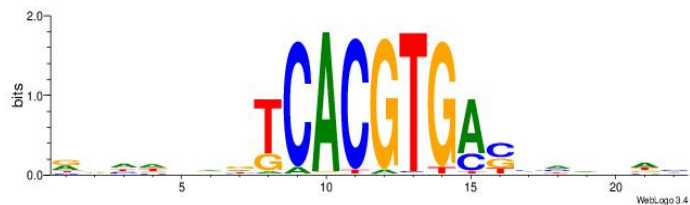
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



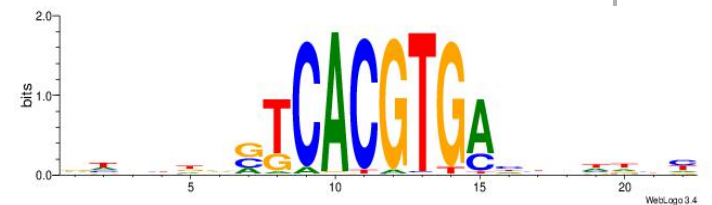
Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 17  
 Similarity score: 0.0784072

Alignment:  
 DDHBHBSTCACGTGAHBBDDHMM  
 ----RGKTCABVVRGAGGTCA-

Original motif  
 Consensus sequence: RDHDBVDTCACGTGASBHVHDDH



Reverse complement motif  
 Consensus sequence: DDHBHBSTCACGTGAHBBDDHMM



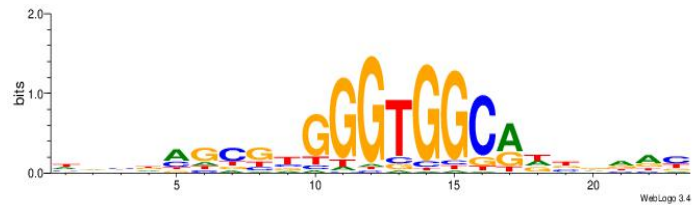
Motif ID: [UP00538](#)

Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 17  
 Similarity score: 0.0794665

Alignment:  
 HVBDAGCGBGGGTGGCRDBDDDB  
 RGKTCABVVRGAGGTCA-----

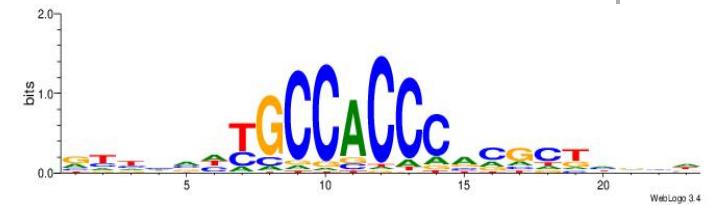
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

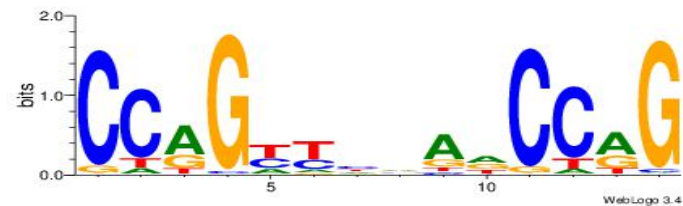
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



**Dataset #: 3      Motif ID: 64      Motif name: Tcfcp2l1**

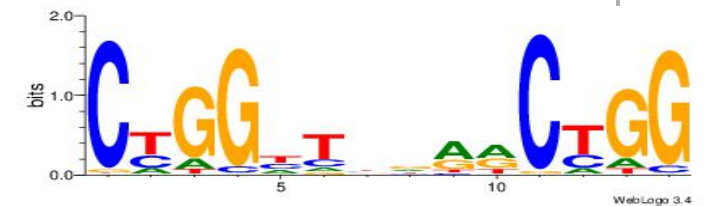
Original motif

Consensus sequence: CCAGYYHVADCCRG



Reverse complement motif

Consensus sequence: CKGGDTBDMMCTGG



## Best Matches for Motif ID 64 (Highest to Lowest)

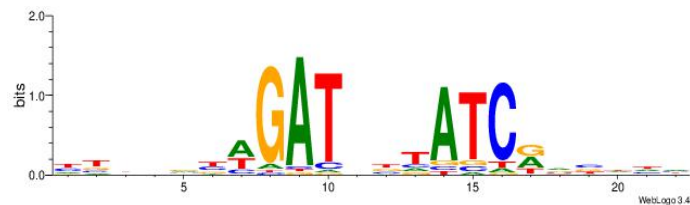
Motif ID: [UP00032](#)  
Motif name: Gata3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 14  
Similarity score: 0.0527249

### Alignment:

```
HBHDVBWGATHBTATCRVBHHH  
----CCAGYYHVADCCRG----
```

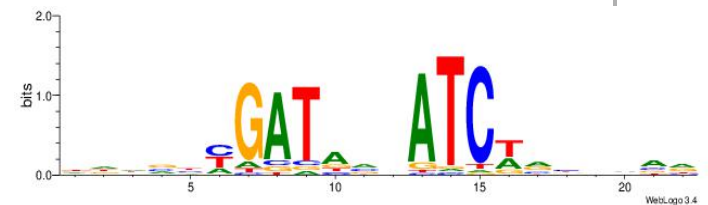
### Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



### Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVVH



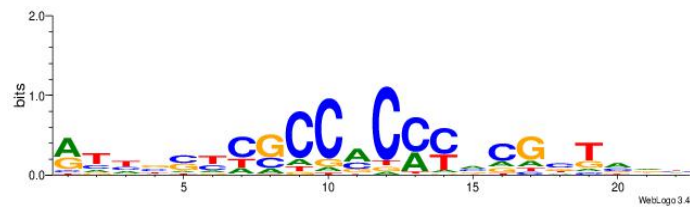
---

Motif ID: [UP00539](#)  
Motif name: Gli2\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif

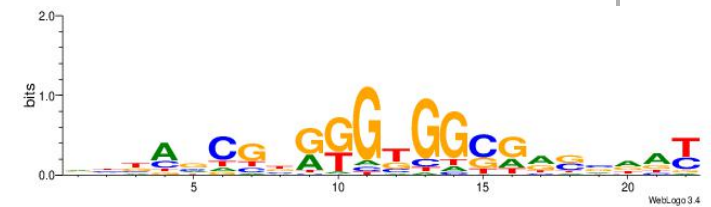
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0551691

Alignment:  
RTHBSYCGCCMCMYVCGBTVDH  
-----CCAGYYHVADCCRG

Original motif  
Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif  
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



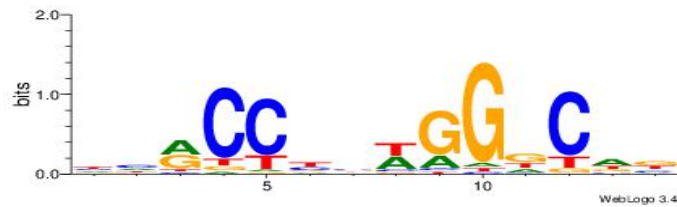
---

Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0560983

Alignment:  
HHRCCBBWGGDCDB  
CCAGYYHVADCCRG

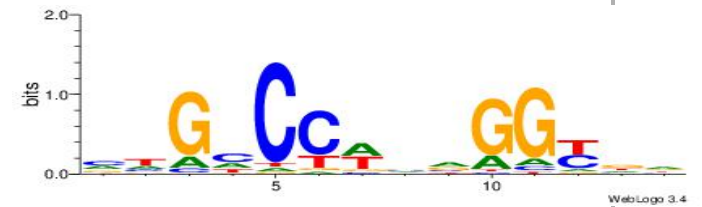
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



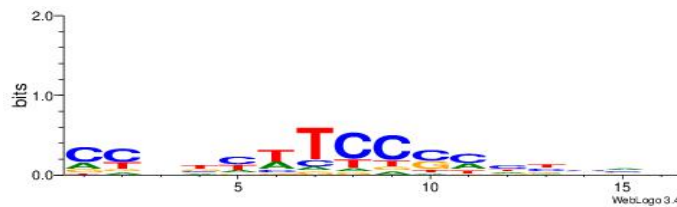
Motif ID: [UP00013](#)  
Motif name: Gabpa\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0566467

Alignment:

```
CYDBYWTCCSMHBVVH  
CCAGYYHVADCCRG--
```

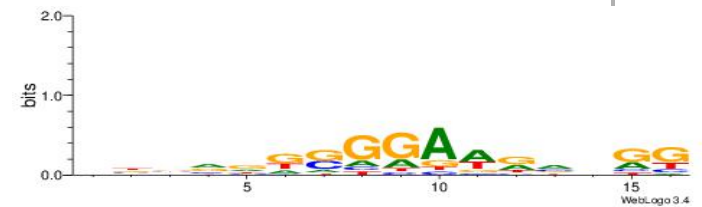
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVDRSGGAWKVHKG





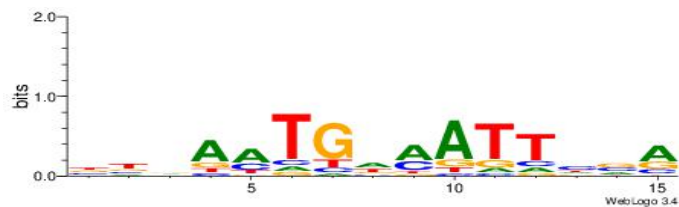
Motif ID: [UP00075](#)  
Motif name: Sox15\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0577636

Alignment:

TVDAATYDCATTVVV  
-CCAGYYHVADCCRG

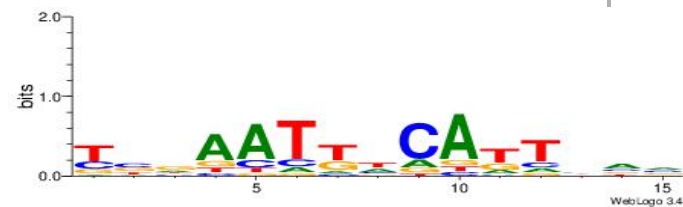
Original motif

Consensus sequence: BBVAATGDMATTHVA



Reverse complement motif

Consensus sequence: TVDAATYDCATTVVV



Motif ID: [UP00096](#)  
Motif name: Sox13\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward

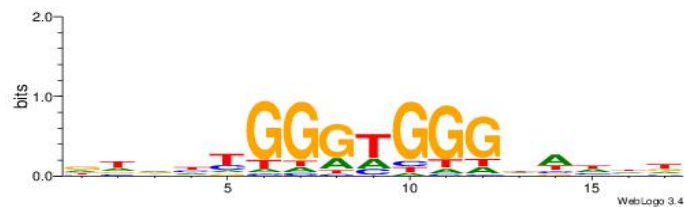
Position number: 4  
Number of overlap: 14  
Similarity score: 0.0587893

Alignment:

DDDHTGGGTGGGHAHHD  
---CKGGDTBDMMCTGG

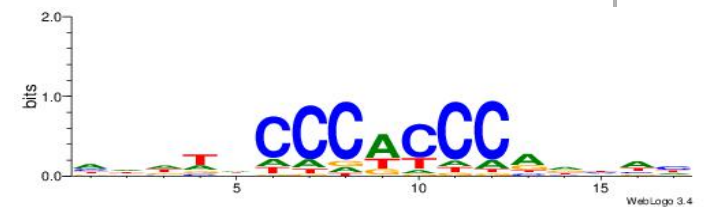
Original motif

Consensus sequence: DDDHTGGGTGGGHAHHD



Reverse complement motif

Consensus sequence: DHHTHCCCACCCAHHDDH



---

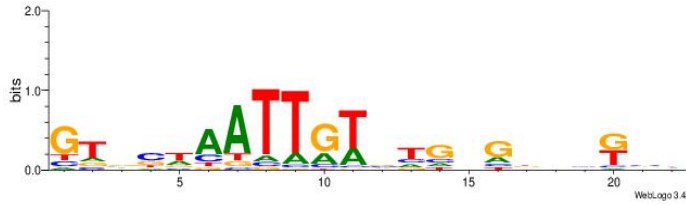
Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0590238

Alignment:

VVYDDDCHCAVACAATTDBVAC  
--CCAGYYHVADCCRG-----

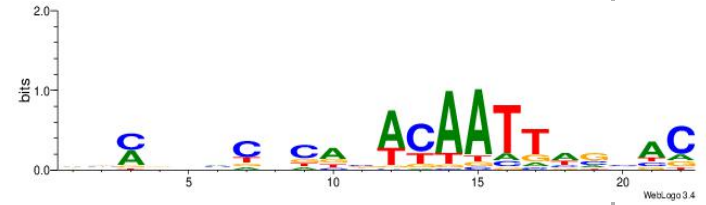
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



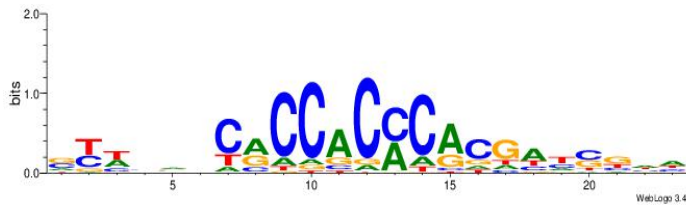
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 14  
 Similarity score: 0.0596904

Alignment:

```
VYWVVHCRCCACMCACGAHSBHH
-----CCAGYYHVADCCRG-
```

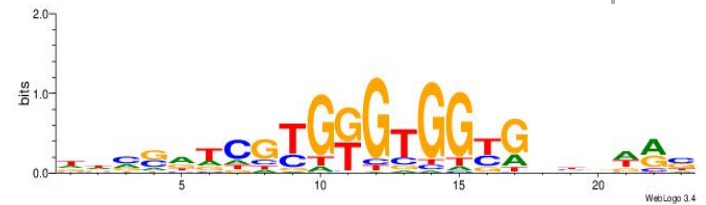
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVBWVM



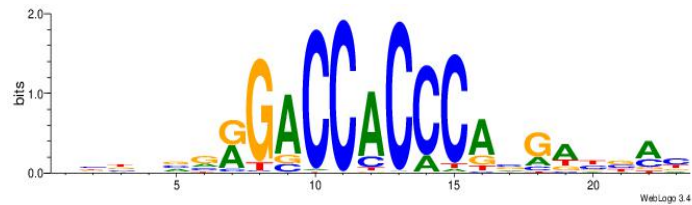
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0597695

Alignment:

BBBDVVRGACCACCCAVGABBAB  
 -----CCAGYYHVADCCRG

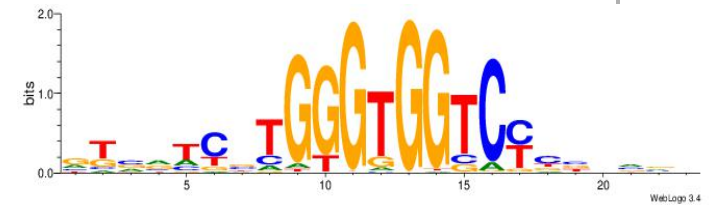
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2

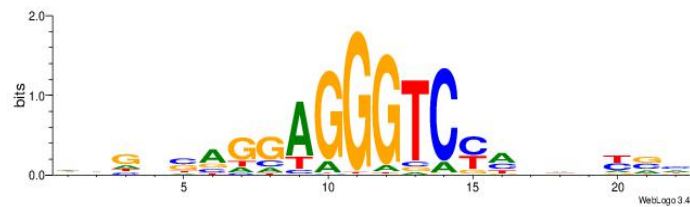
Number of overlap: 14  
Similarity score: 0.0598357

Alignment:

HVGVSAGGAGGGTCYHHHHYVH  
-----CKGGDTBDMMCTGG-

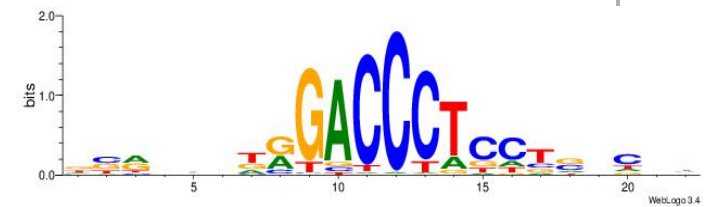
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



---

**Dataset #: 4      Motif ID: 65      Motif name: ssCGrGCGss**

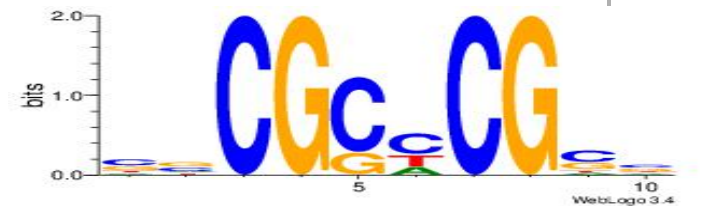
Original motif

Consensus sequence: VSCGRGCGBV



Reverse complement motif

Consensus sequence: VBCGCMCGSV



**Best Matches for Motif ID 65 (Highest to Lowest)**

Motif ID: [UP00065](#)  
Motif name: Zfp161\_primary  
Species: Mus musculus

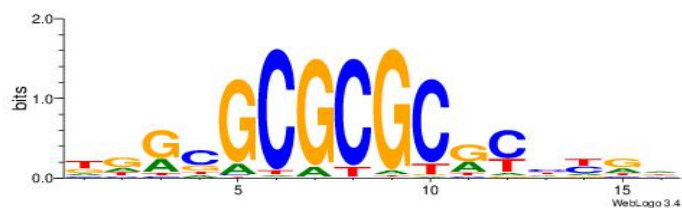
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:

```
DDGCGCGCGCRCHYRD
---VBCGCMCGSV---
```

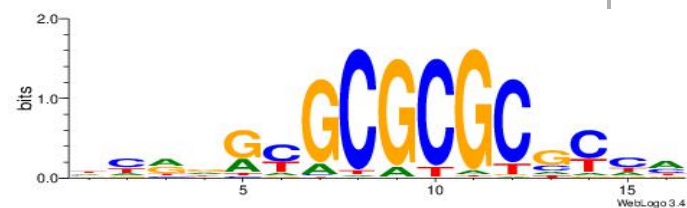
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



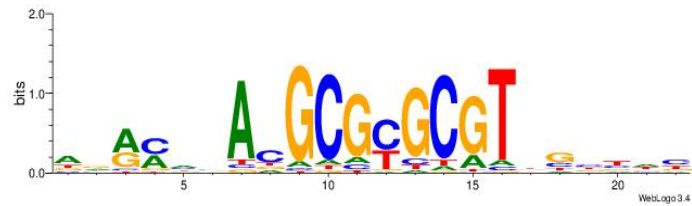
Motif ID:	<a href="#">UP00526</a>
Motif name:	Foxn1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.00441562

Alignment:

DDRMHBACGCGYGCGTDGBBDB  
-----VSCGRGCGBV-----

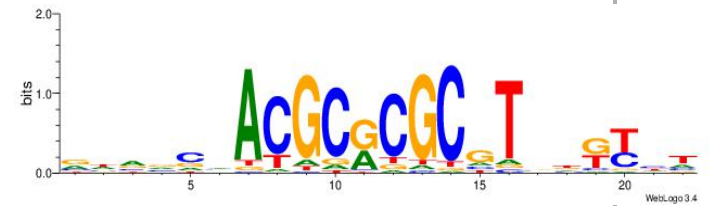
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



---

Motif ID:	<a href="#">UP00400</a>
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.00724497

Alignment:

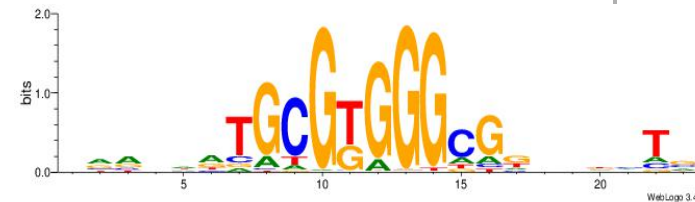
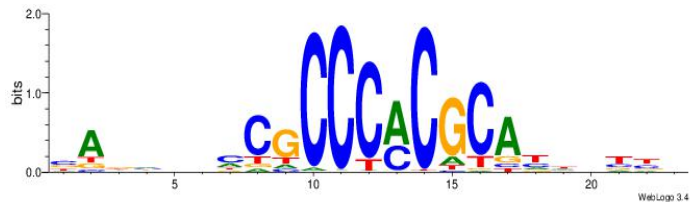
BADHBDHCGCCCMCGCAHHDBBV  
-----VBCGCMCGSV-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

Consensus sequence: VVDHHTGCGYGGCGDHSVHTB

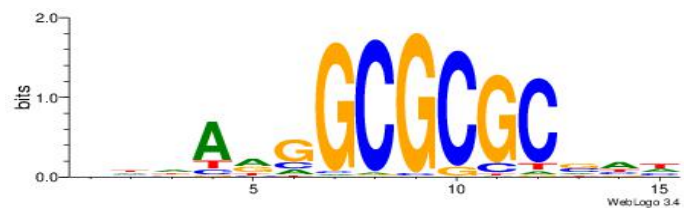


Motif ID: [UP00001](#)  
 Motif name: E2F2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.00889608

Alignment:  
 HHVGC GCGCCKTDHB  
 VBCGCMGSV-----

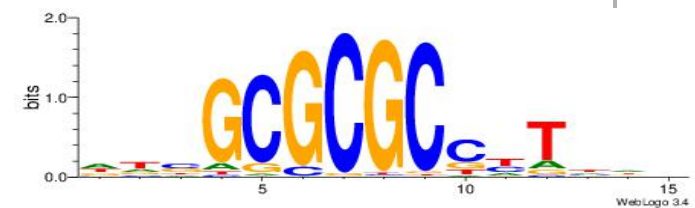
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGC GCGCCKTDHB



Motif ID: [UP00002](#)



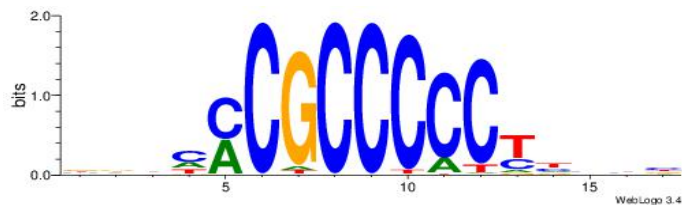
Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.00998546

**Alignment:**

BVVHAGGGGGCGRDHHB  
 ----VSCGRGCBV----

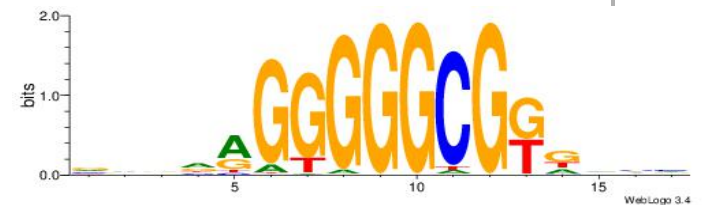
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB




---

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: Backward  
 Position number: 3  
 Number of overlap: 10

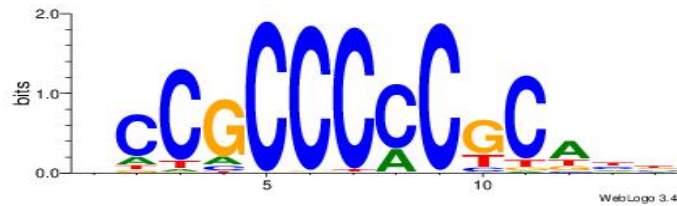
Similarity score: 0.0109516

Alignment:

HCCGCCCCCGCAHB  
--VBCGCMCGSV--

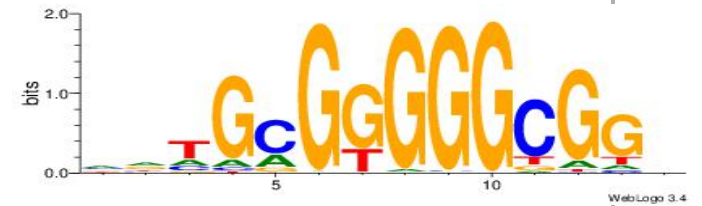
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00526](#)  
Motif name: Foxn1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 7  
Number of overlap: 10  
Similarity score: 0.0111653

Alignment:

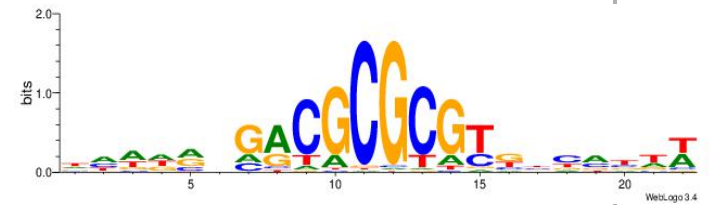
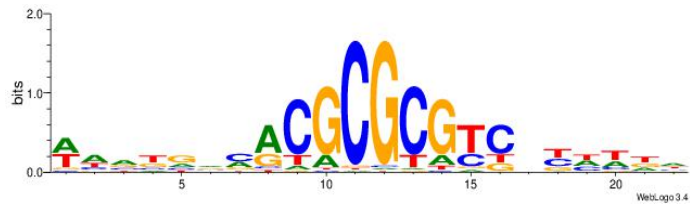
HDWHMHGACGCGCGTRBVVBHW  
-----VSCGRGCGBV-----

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



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: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0119775

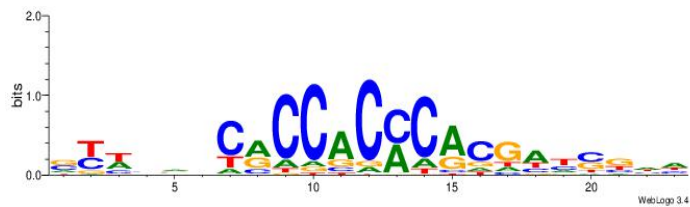
**Alignment:**

```

VYWVVHCRCCACMCACGAHSBHH
-----VBCGCMCGSV-----
  
```

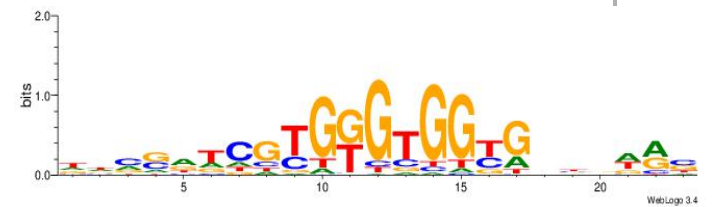
**Original motif**

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



**Reverse complement motif**

Consensus sequence: HHBSHTCGTGRGTGGKGDVBWVMV



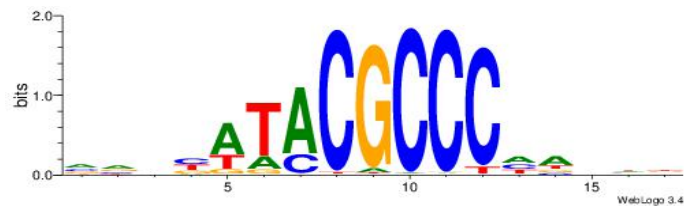
Motif ID: [UP00093](#)  
Motif name: Klf7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.012521

Alignment:

DHDTHGGGCGTATBHBB  
--VSCGRGCGBV-----

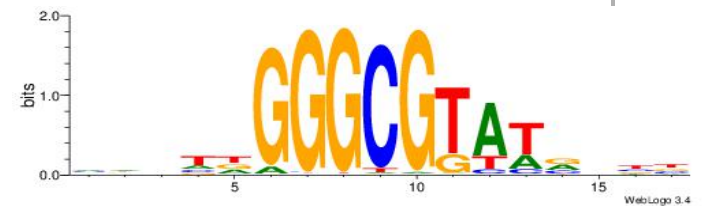
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

Consensus sequence: DHDTHGGGCGTATBHBB

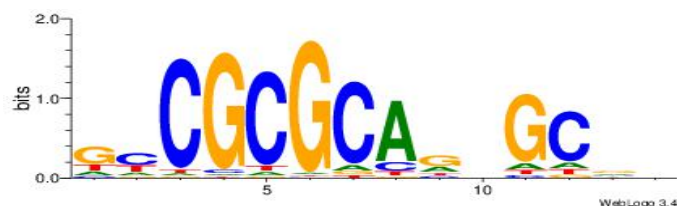


Motif ID: [UP00065](#)  
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 5

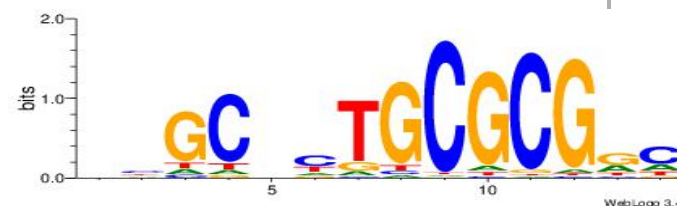
Number of overlap: 10  
Similarity score: 0.0128641

Alignment:  
VVGCVMTGCGCGKC  
----VBCGCMCGSV

Original motif  
Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif  
Consensus sequence: VVGCVMTGCGCGKC



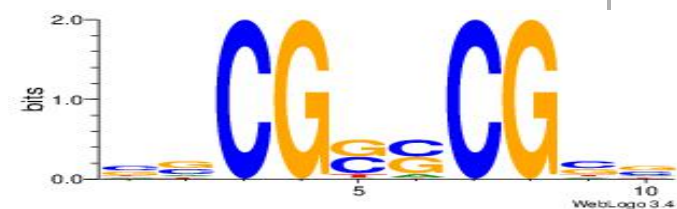
---

**Dataset #: 4      Motif ID: 66      Motif name: ssCGssCGss**

Original motif  
Consensus sequence: BSCGSSCGSV



Reverse complement motif  
Consensus sequence: VSCGSSCGSB



### Best Matches for Motif ID 66 (Highest to Lowest)

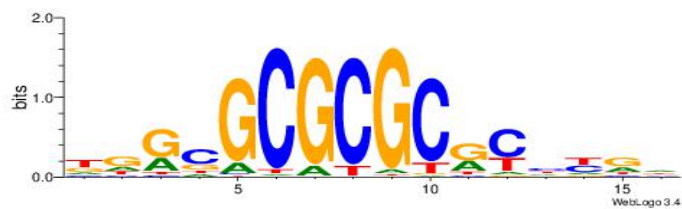
Motif ID: [UP00065](#)  
Motif name: Zfp161\_primary  
Species: Mus musculus

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:  
 DDGCGCGCGCRCHYRD  
 ---BSCGSSCGSV---

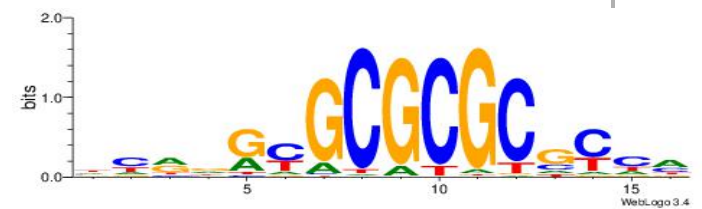
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



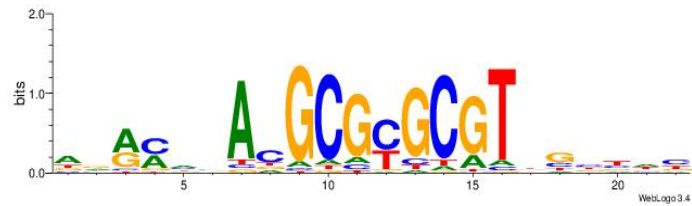
Motif ID:	<a href="#">UP00526</a>
Motif name:	Foxn1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.00696149

Alignment:

DDRMHBACGCGYGCGTDGBBDB  
-----BSCGSSCGSV-----

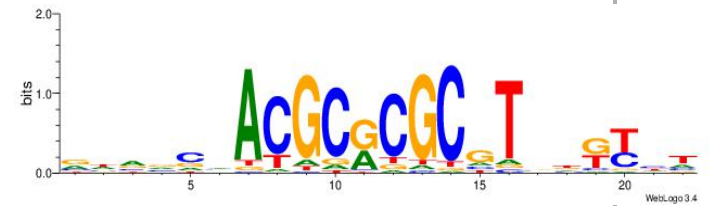
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



---

Motif ID:	<a href="#">UP00001</a>
Motif name:	E2F2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0109689

Alignment:

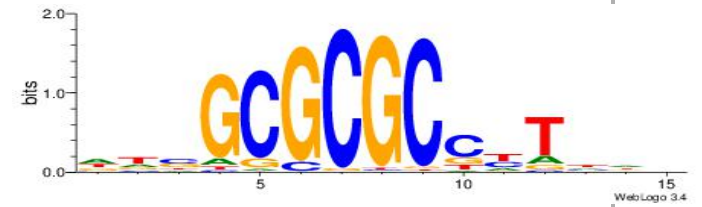
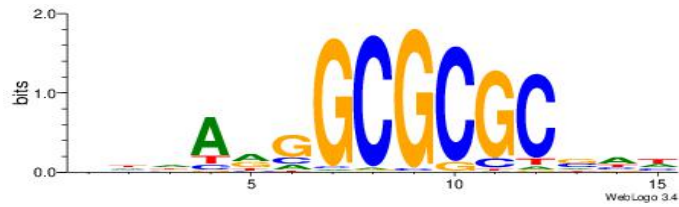
HHVGCGCGCCKTDHB  
BSCGSSCGSV-----

Original motif

Consensus sequence: VHDARGGCGCGCVHH

Reverse complement motif

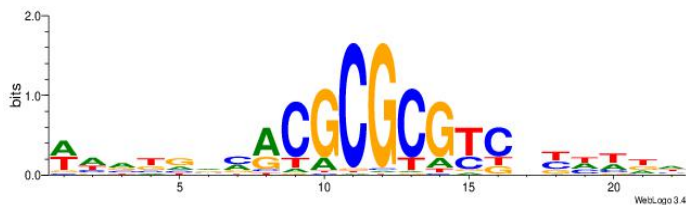
Consensus sequence: HHVGCGCGCCKTDHB



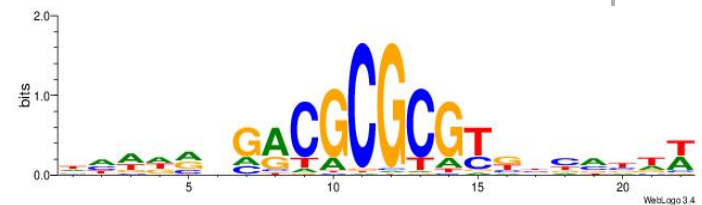
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0123281

Alignment:  
 HDWHMHGACGCGCGTRBVVBHW  
 -----BSCGSSCGSV-----

Original motif  
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif  
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00065](#)



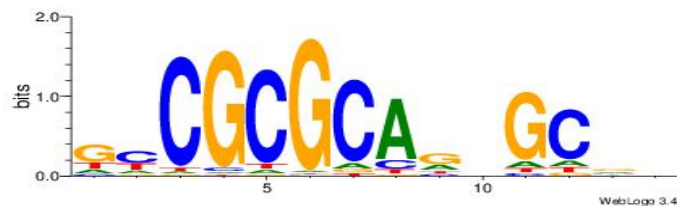
Motif name: Zfp161\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0126874

**Alignment:**

VVGCVMTGCGCGKC  
 ----VSCGSSCGSB

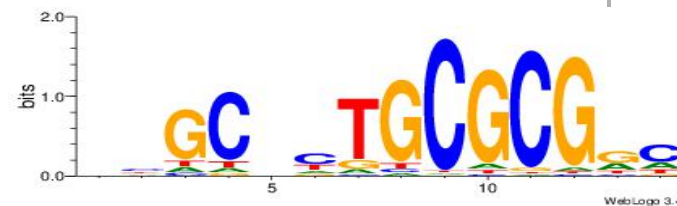
**Original motif**

Consensus sequence: GYCGCGCARBGCVB



**Reverse complement motif**

Consensus sequence: VVGCVMTGCGCGKC




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Motif ID: [UP00003](#)  
 Motif name: E2F3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10

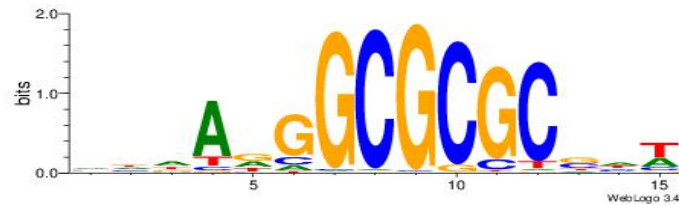
Similarity score: 0.0149933

Alignment:

WHSGCGCGCCHTDHB  
BSCGSSCGSV-----

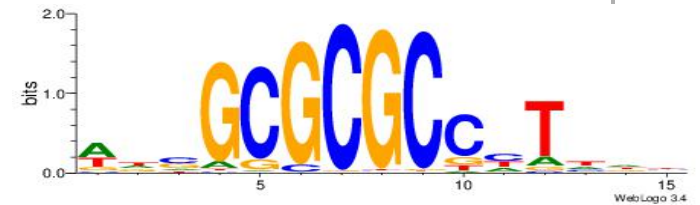
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



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: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0189053

Alignment:

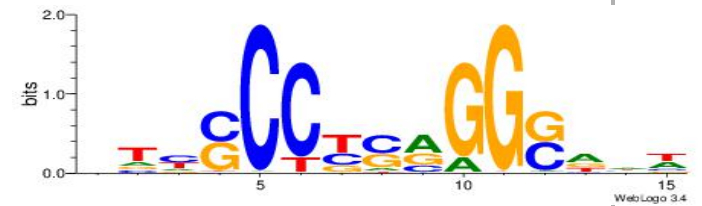
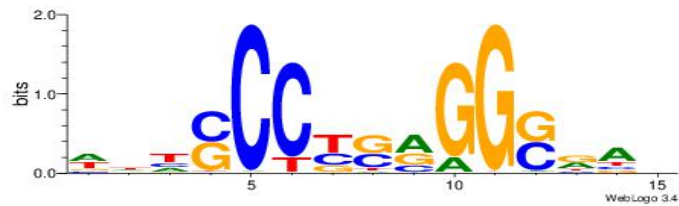
DTMSCCKSMGGSHDW  
--BSCGSSCGSV---

Original motif

Consensus sequence: WDHSCCYSRGGSRAD

Reverse complement motif

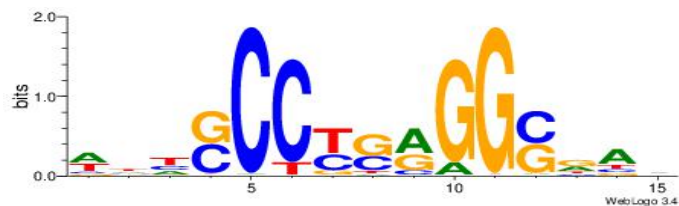
Consensus sequence: DTMSCCKSMGGSHDW



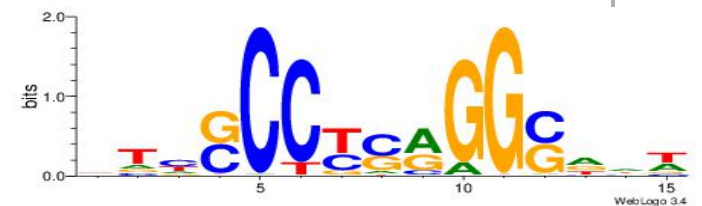
Motif ID: [UP00087](#)  
 Motif name: Tcfap2c\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0194786

Alignment:  
 DTHSCCKSMGGSHHW  
 --BSCGSSCGSV---

Original motif  
 Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif  
 Consensus sequence: DTHSCCKSMGGSHHW



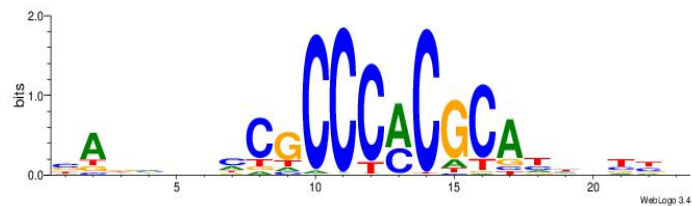
Motif ID: [UP00400](#)  
 Motif name: Zif268  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0215973

Alignment:

BADHBDHCGCCCMCGCAHHDBBV  
 -----BSCGSSCGSV-----

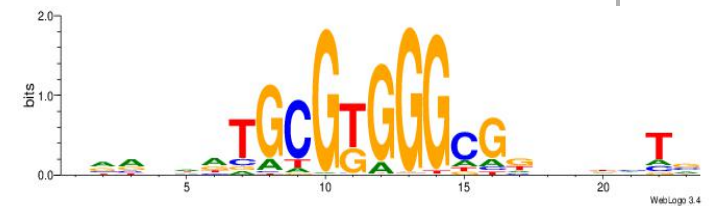
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHHVHTB



Motif ID: [UP00036](#)  
 Motif name: Myf6\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3

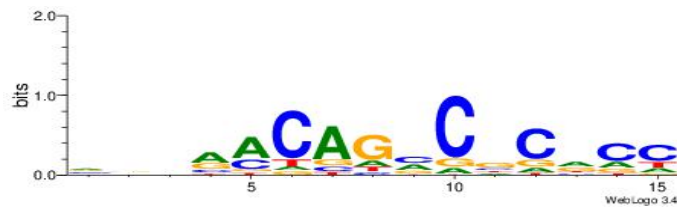
Number of overlap: 10  
Similarity score: 0.0218811

Alignment:

VVVRACAGVCBCDCC  
---BSCGSSCGSV--

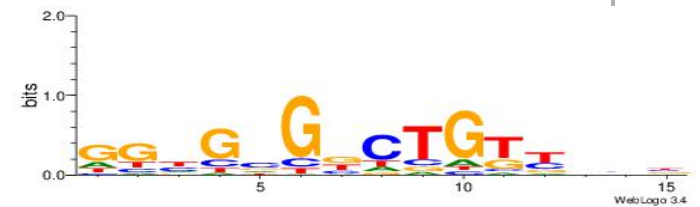
Original motif

Consensus sequence: VVVRACAGVCBCDCC



Reverse complement motif

Consensus sequence: GGDGBGVCTGTKVVB

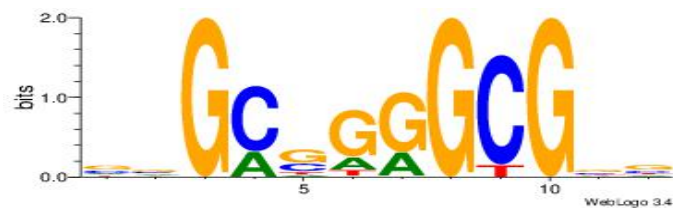


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**Dataset #: 4      Motif ID: 67      Motif name: ssGMsGRGCGss**

Original motif

Consensus sequence: VVGCSGGGCGBB



Reverse complement motif

Consensus sequence: BBCGCCCSGCVV



**Best Matches for Motif ID 67 (Highest to Lowest)**

Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus

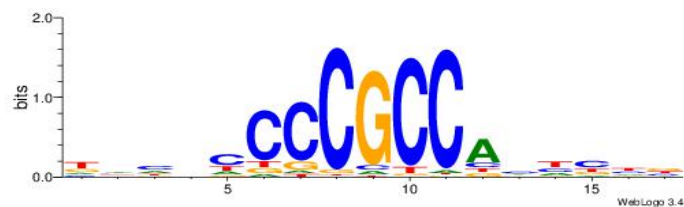
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0145201

Alignment:

```
BHBHDTGGCGGGBDHD
VVGCSGGGCGBB-----
```

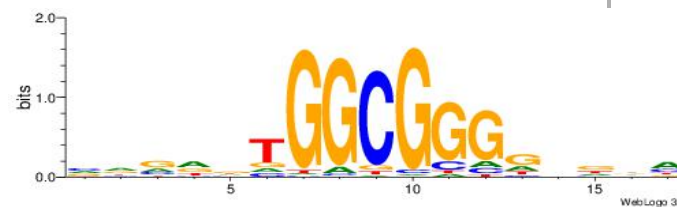
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



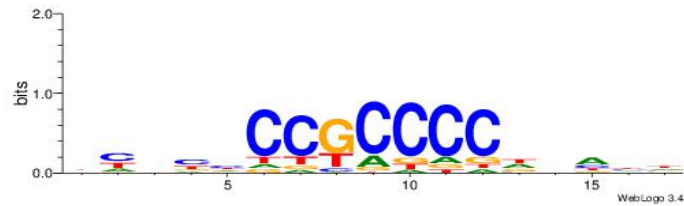
Motif ID:	<a href="#">UP00033</a>
Motif name:	Zfp410_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0165054

Alignment:

BHHBHCCGCCCCDHHHH  
----BBCGCCCCSGCVV-

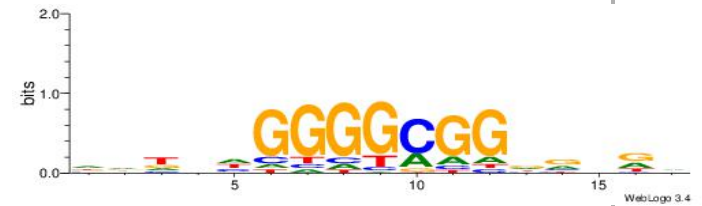
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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Motif ID:	<a href="#">UP00002</a>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0174891

Alignment:

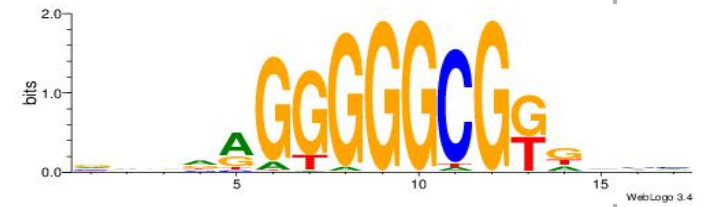
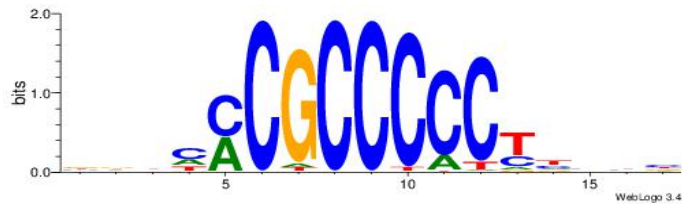
BDHHMCGCCCCCTHVBB  
---BBCGCCCCSGCVV--

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

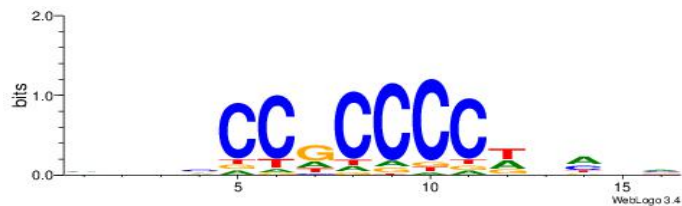


Motif ID: [UP00043](#)  
 Motif name: Bcl6b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0177479

Alignment:  
 HBBBCCGCCCCWHHHV  
 ---BBCGCCCSGCVV-

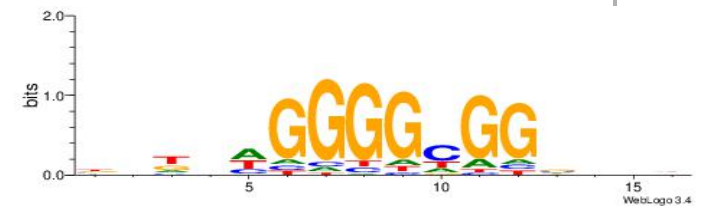
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00065](#)



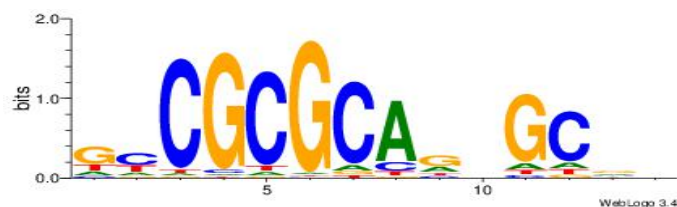
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0199317

Alignment:

GYCGCGCARBGCVB  
--BBCGCCCCSGCVV

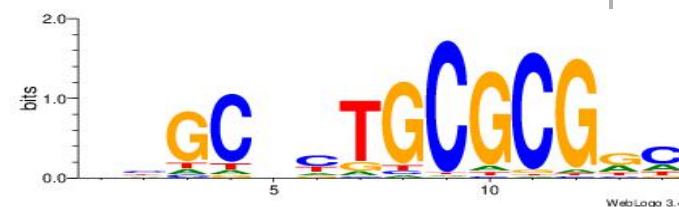
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGGKC



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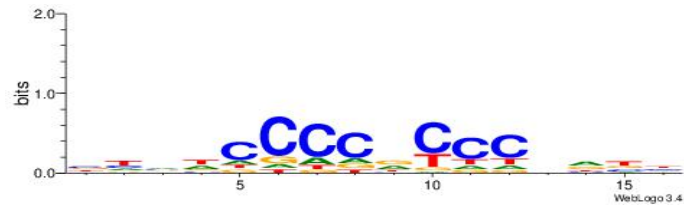
Motif ID: [UP00099](#)  
Motif name: Ascl2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0218581

Alignment:

HVDVGGGHGGGGDBHB  
BBCGCCCCSGCVV-----

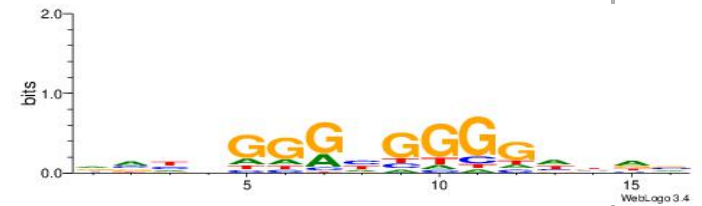
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



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Motif ID:	<a href="#">UP00526</a>
Motif name:	Foxn1_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:	12
Similarity score:	0.0230506

Alignment:

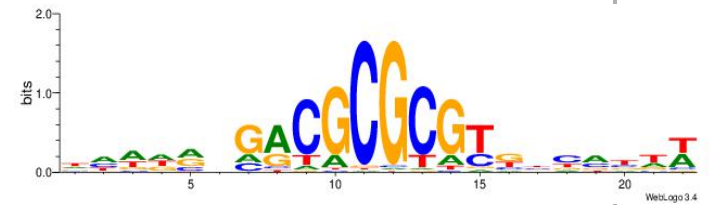
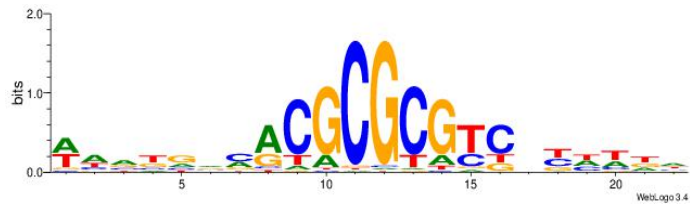
HDWHMHGACGCGCGTRBVVBHW  
-----VVGCSGGGCGBB-----

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

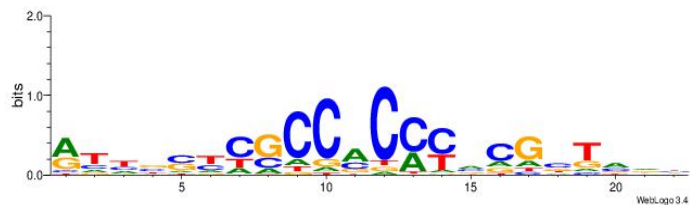
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



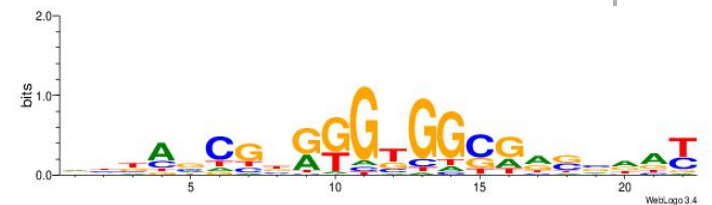
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 12  
 Similarity score: 0.0234643

Alignment:  
 RTHBSYCGCCMCMYVCGBTVDH  
 ----BBCGCCCSGCVV-----

Original motif  
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif  
 Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00093](#)

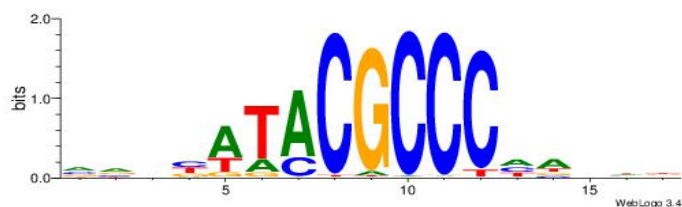
Motif name: Klf7\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0242135

Alignment:

VVDBATACGCCCHAHHD  
-----BBCGCCCSGCVV

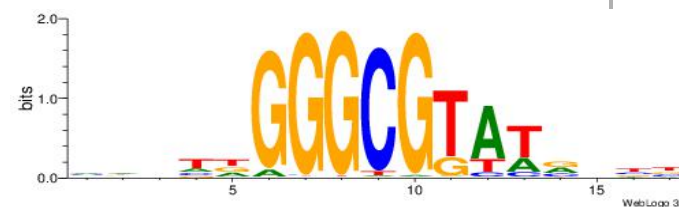
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

Consensus sequence: DHDTHGGGCGTATBHBB



---

Motif ID: [UP00003](#)  
Motif name: E2F3\_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: 12

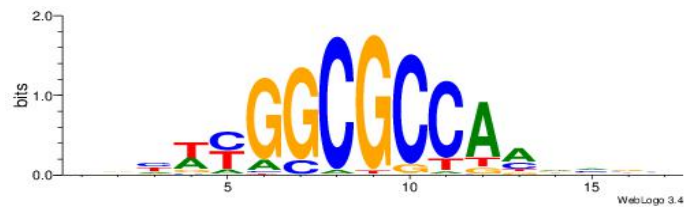
Similarity score: 0.024665

Alignment:

HBHWYGGCGCCAMDVB  
-----BBCGCCCSGCVV

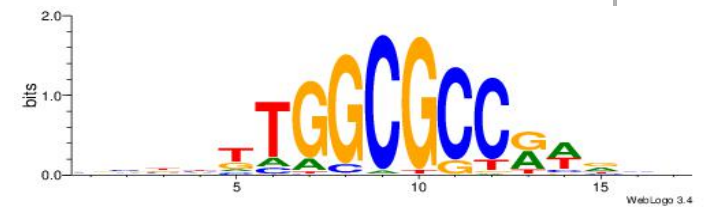
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

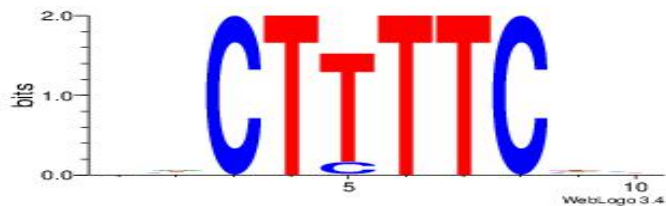
Consensus sequence: BBBDYTGGCGCKWDBD



**Dataset #: 4**      **Motif ID: 68**      **Motif name: dwCTTTTCwy**

Original motif

Consensus sequence: DHCTTTTCHH



Reverse complement motif

Consensus sequence: DHGAAAAGHD



### Best Matches for Motif ID 68 (Highest to Lowest)

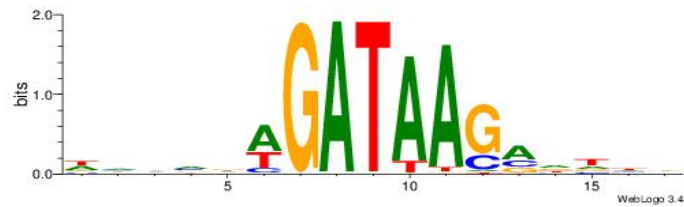
Motif ID: [UP00100](#)  
Motif name: Gata6\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0

Alignment:  
 VHDDTCTTATCW HBDHD  
 ---DHCTTTTCHH----

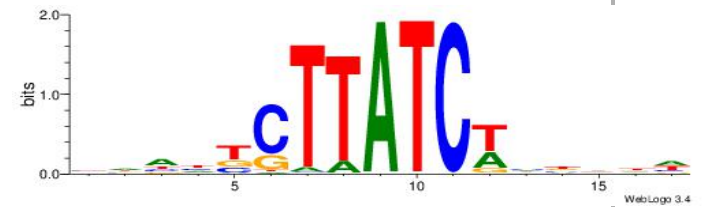
Original motif

Consensus sequence: DHDVDWGATAAGADDHV



Reverse complement motif

Consensus sequence: VHDDTCTTATCW HBDHD




---

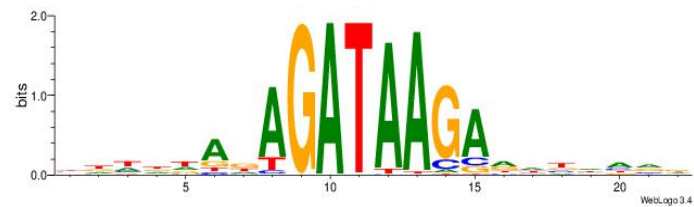
Motif ID: [UP00032](#)  
 Motif name: Gata3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00791476

Alignment:

HBHDVHDTCTTATCTHTDDHDV  
-----DHCTTTTCHH-----

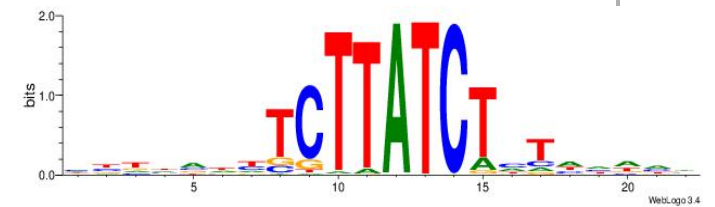
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00080](#)  
Motif name: Gata5\_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: 10  
Similarity score: 0.0170494

Alignment:

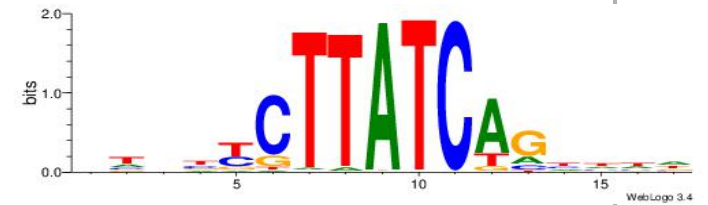
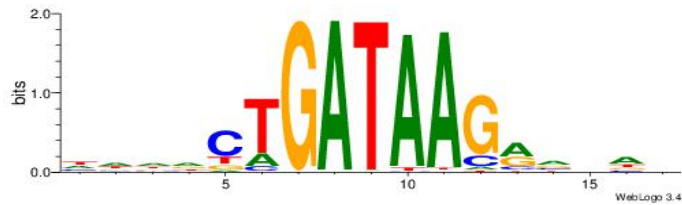
DDHBKCTTATCAGDDDH  
---DHCTTTTCHH----

Original motif

Consensus sequence: HDDDCTGATAAGRVD

Reverse complement motif

Consensus sequence: DDHBKCTTATCAGDDDH

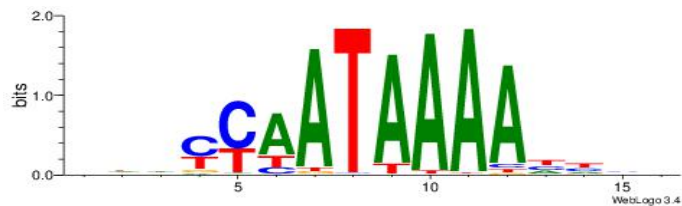


Motif ID: [UP00180](#)  
 Motif name: Hoxd13  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.0261336

Alignment:  
 HDHHTTTTATTKKHDD  
 -DHCTTTTCHH-----

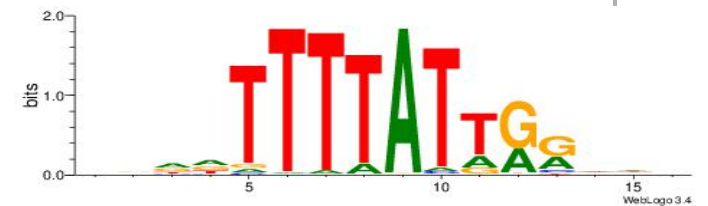
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00086](#)



Motif name: Irf3\_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: 10  
 Similarity score: 0.0268224

Alignment:  
 BHGSDCCD TTCTHH  
 ---DHCTTTTCHH-

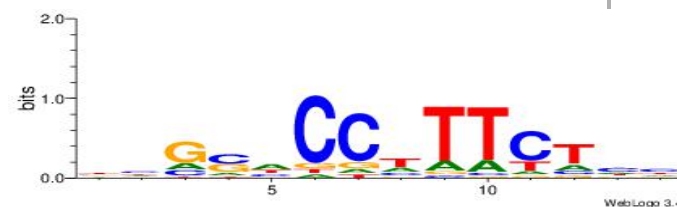
Original motif

Consensus sequence: DDAGAADGGDSCDV



Reverse complement motif

Consensus sequence: BHGSDCCD TTCTHH




---

Motif ID: [UP00121](#)  
 Motif name: Hoxd10  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10

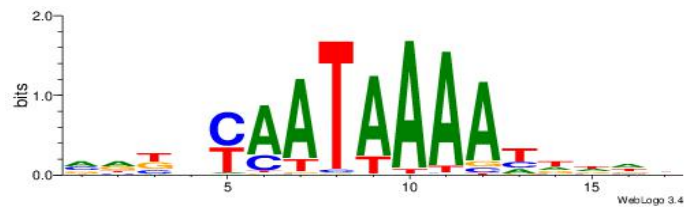
Similarity score: 0.0305464

Alignment:

```
HDDDATTTTATTKVRDB  
--DHCTTTTCHH-----
```

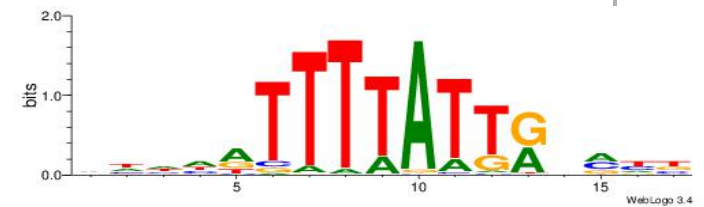
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00028](#)  
Motif name: Tcfap2e\_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: 10  
Similarity score: 0.0311787

Alignment:

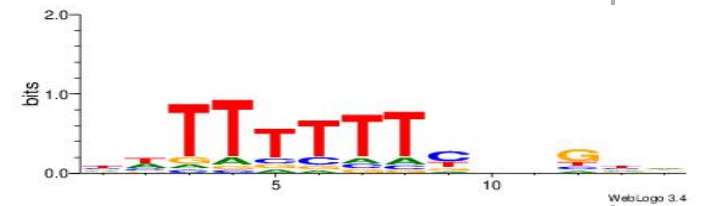
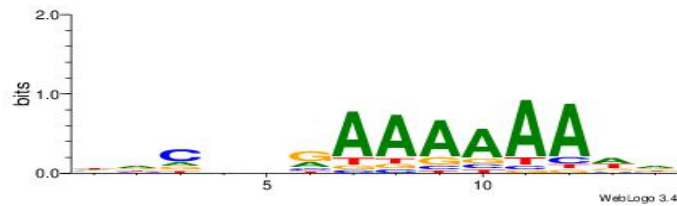
```
HDCDBRAAAAAADD  
---DHGAAAAGHD-
```

Original motif

Consensus sequence: HDCDBRAAAAAADD

Reverse complement motif

Consensus sequence: DDTTTTTTMBDGDH



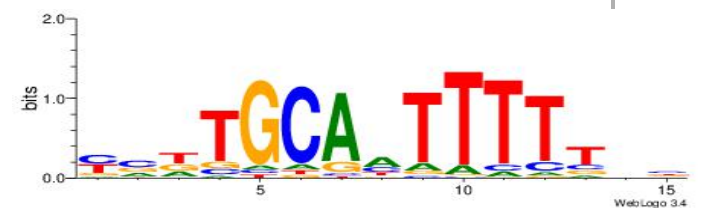
Motif ID: [UP00044](#)  
 Motif name: Mafk\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.0323274

Alignment:  
 VHAAAAADTGCAHBR  
 DHGAAAAGHD-----

Original motif  
 Consensus sequence: VHAAAAADTGCAHBR



Reverse complement motif  
 Consensus sequence: MBHTGCADTTTTTHV



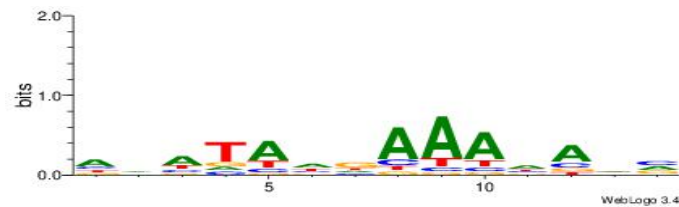
Motif ID: [UP00097](#)

Motif name: Mtf1\_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: 10  
Similarity score: 0.032885

Alignment:  
HDATAHDAAAHADV  
DHCTTTTCHH----

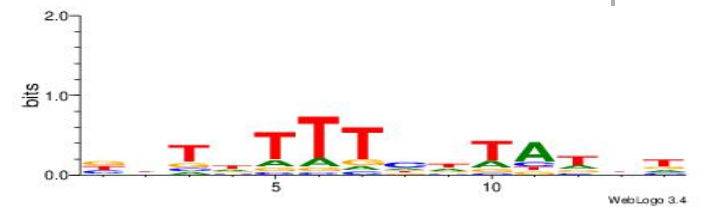
#### Original motif

Consensus sequence: HDATAHDAAAHADV



#### Reverse complement motif

Consensus sequence: VDTHTTTHTATDH



---

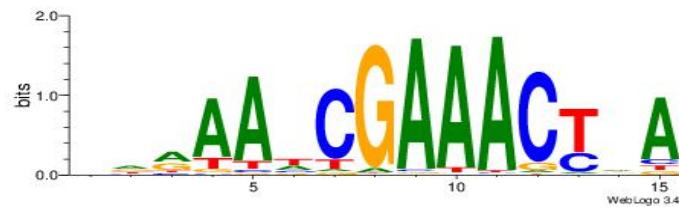
Motif ID: [UP00074](#)  
Motif name: Isgf3g\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0334374

Alignment:

```
TDAGTTTCGWTTKDV
DHCTTTTCHH-----
```

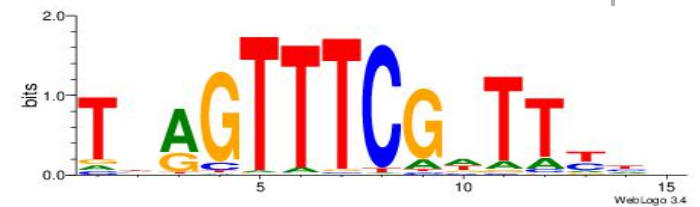
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



**Dataset #: 4**

**Motif ID: 69**

**Motif name: aaACAAAACaa**

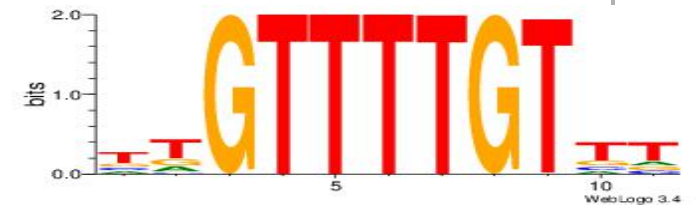
Original motif

Consensus sequence: AAACAAAACAA



Reverse complement motif

Consensus sequence: TTGTTTTGTTT



### Best Matches for Motif ID 69 (Highest to Lowest)

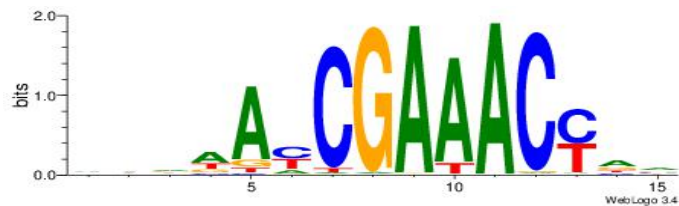
Motif ID:	<a href="#">UP00040</a>
Motif name:	Irf5_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

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

Alignment:  
BDKGTTCGKTWDDD  
-TTGTTTTGTTT---

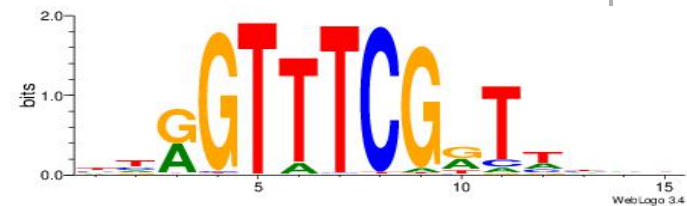
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTCGKTWDDD



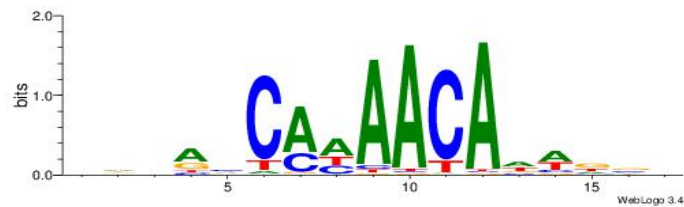
Motif ID: [UP00039](#)  
Motif name: Foxj3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.00531676

Alignment:

DVHWDTGTTWTGDTBDH  
----TTGTTTTGTTT--

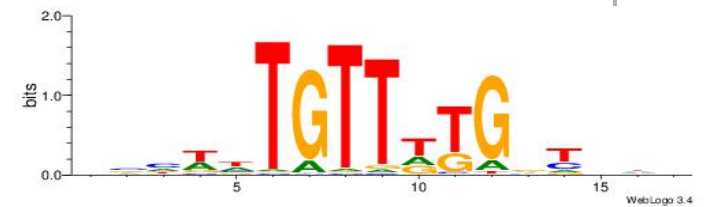
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



Motif ID: [UP00062](#)  
Motif name: Sox4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.00687646

Alignment:

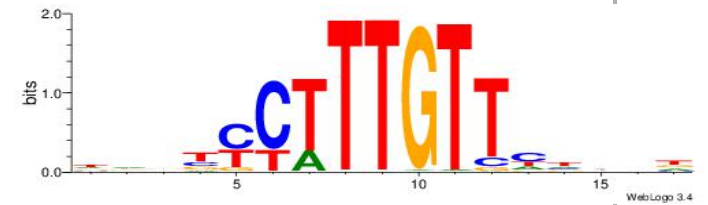
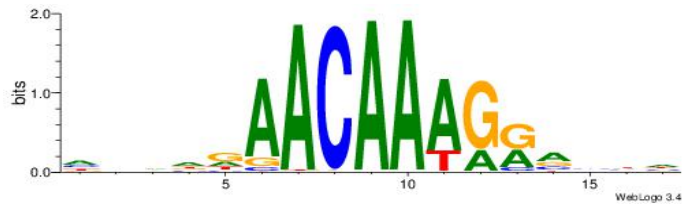
HBDDDAACAAAGRVBHH  
----AAACAAAACAA--

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

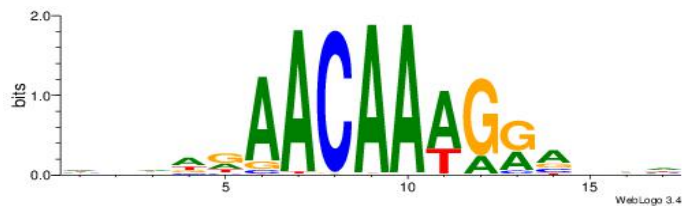


Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00927121

Alignment:  
 HBDDRAACAAAGRABHH  
 ----AAACAAAACAA--

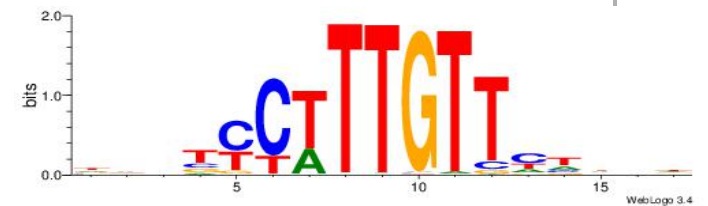
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00074](#)



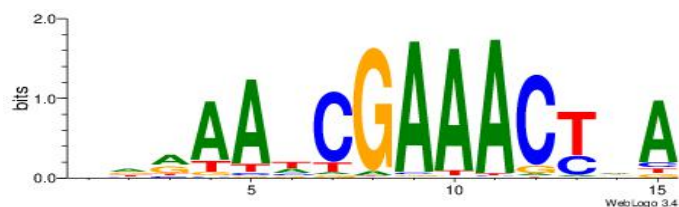
Motif name: Isgf3g\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 11  
 Similarity score: 0.00929598

Alignment:

VDRAAWCGAAACTDA  
 ---AAACAAAACAA-

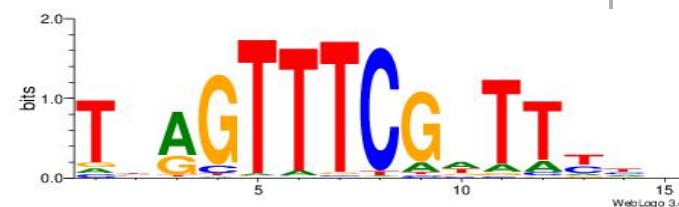
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV




---

Motif ID: [UP00018](#)  
 Motif name: Irf4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11

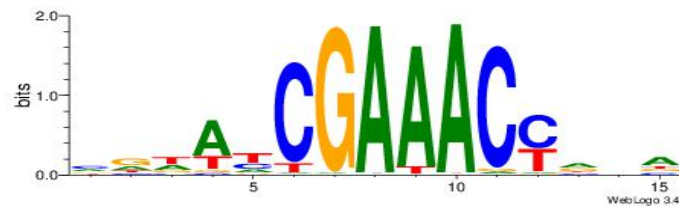
Similarity score: 0.0107669

Alignment:

```
TBDKGTTCGMDHV  
--TTGTTTTGTTT--
```

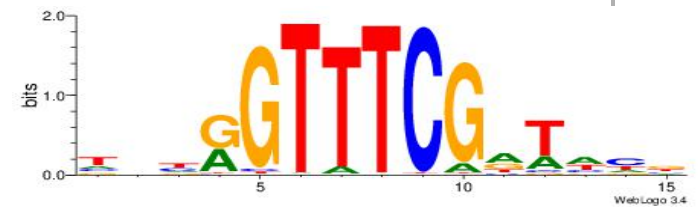
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

Consensus sequence: TBDKGTTCGMDHV



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: 6  
Number of overlap: 11  
Similarity score: 0.0108575

Alignment:

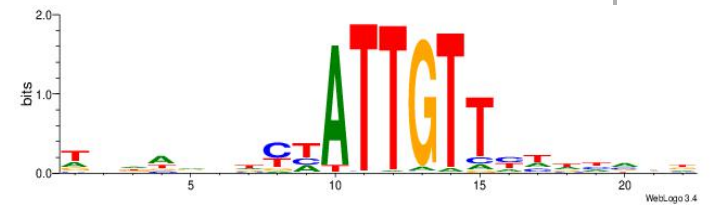
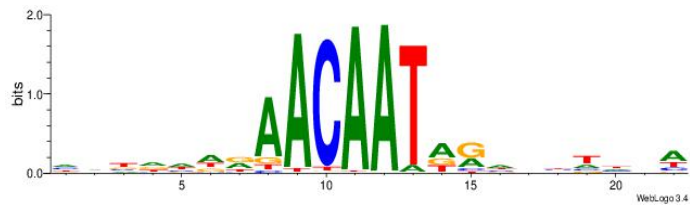
```
HHBDHDDAACAATDRHHHHHBW  
-----AAACAAAACAA-----
```

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH

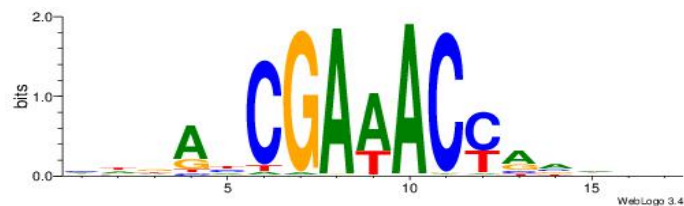


Motif ID: [UP00011](#)  
 Motif name: Irf6\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0123014

Alignment:  
 DHDBTKGTTTCGHTHDD  
 ----TTGTTTTGTTT--

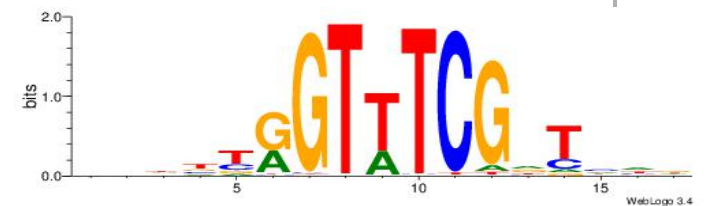
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



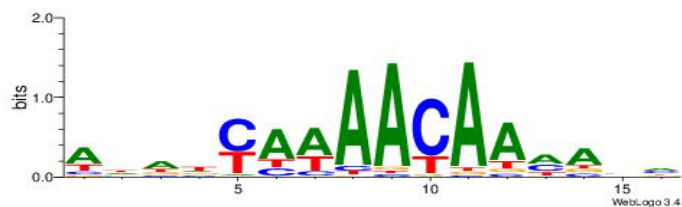
Motif ID: [UP00061](#)  
Motif name: Foxl1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0135558

Alignment:

ADDDYAWAACAAMAHH  
-AACAAAACAA-----

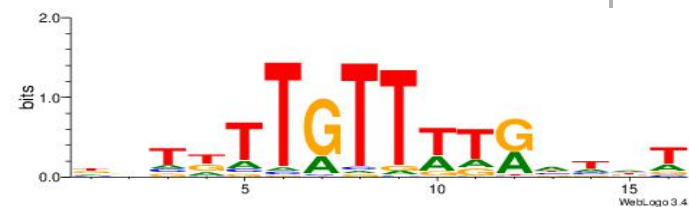
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



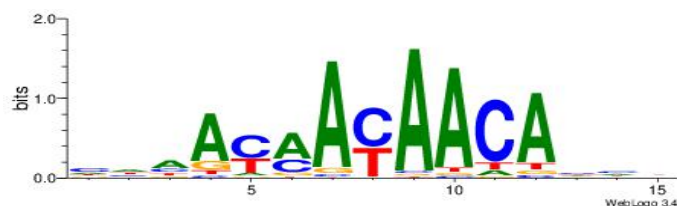
---

Motif ID: [UP00025](#)  
Motif name: Foxk1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3

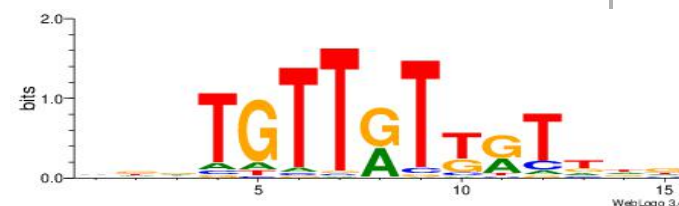
Number of overlap: 11  
Similarity score: 0.0135993

Alignment:  
HDDTGTTKTTKTHHD  
--TTGTTTTGTTT--

Original motif  
Consensus sequence: HHHAYAAYAACAHHH

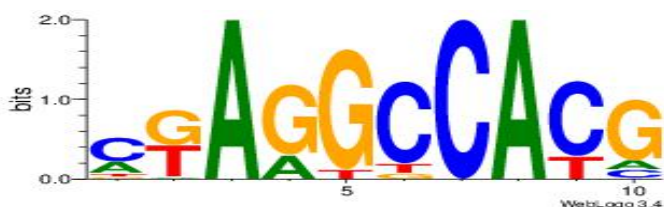


Reverse complement motif  
Consensus sequence: HDDTGTTKTTKTHHD



**Dataset #: 4      Motif ID: 70      Motif name: mkARGCCACG**

Original motif  
Consensus sequence: CKAGGCCACG



Reverse complement motif  
Consensus sequence: CGTGGCCTYG



### Best Matches for Motif ID 70 (Highest to Lowest)

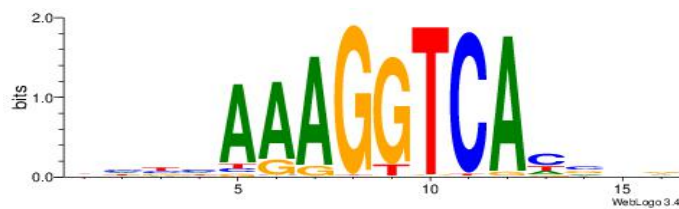
Motif ID: [UP00048](#)  
Motif name: Rara  
Species: Mus musculus

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0144802

Alignment:  
DHBHAAAGGTCACVHD  
----CKAGGCCACG--

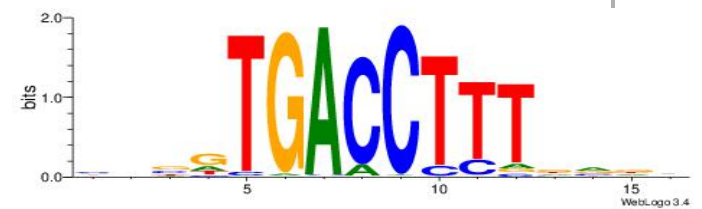
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTD VDD



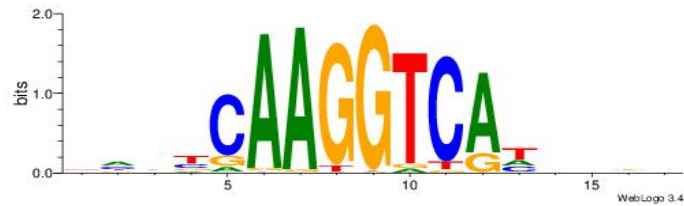
Motif ID:	<a href="#">UP00079</a>
Motif name:	Esrra_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0173934

Alignment:

HHBVHTGACCTTGVDHD  
---CGTGGCCTYG----

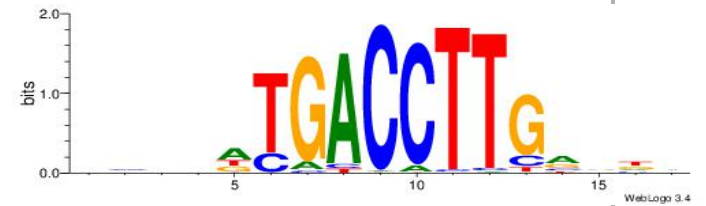
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



---

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: 4  
Number of overlap: 10  
Similarity score: 0.0178167

Alignment:

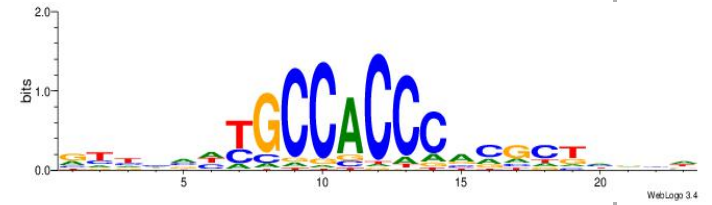
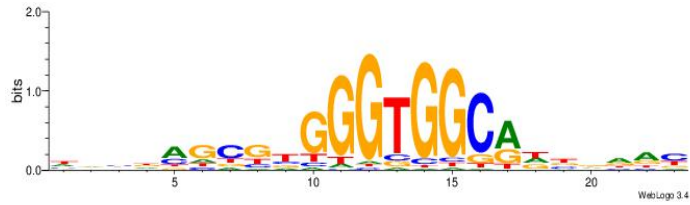
HVBDAGCGBGGGTGGCRDBDDDB  
-----CGTGGCCTYG----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

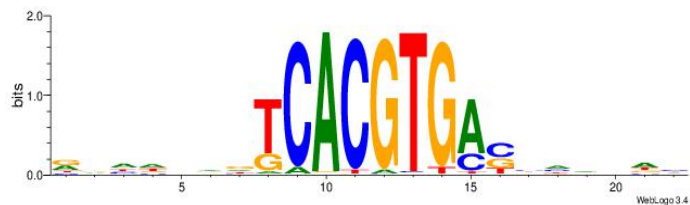
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



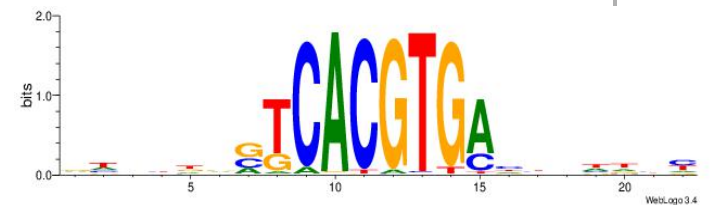
Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 11  
 Number of overlap: 10  
 Similarity score: 0.0188256

Alignment:  
 DDHBHBSTCACGTGAHBBDDHMM  
 --CKAGGCCACG-----

Original motif  
 Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif  
 Consensus sequence: DDHBHBSTCACGTGAHBBDDHMM



Motif ID: [UP00053](#)



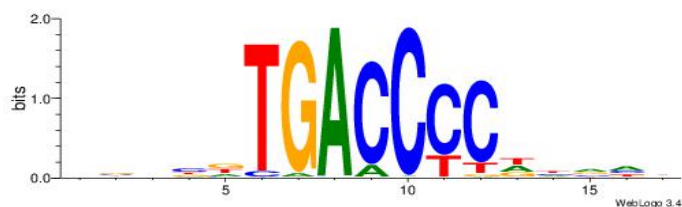
Motif name: Rxra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0205842

**Alignment:**

DBHBDTGACCCCDHVHB  
 ---CGTGGCCTYG----

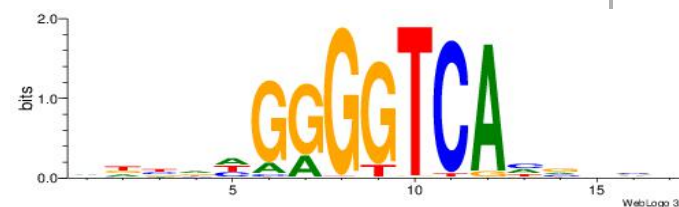
**Original motif**

Consensus sequence: DBHBDTGACCCCDHVHB



**Reverse complement motif**

Consensus sequence: VHBHDGGGGTCAHBHBD




---

Motif ID: [UP00009](#)  
 Motif name: Nr2f2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 10

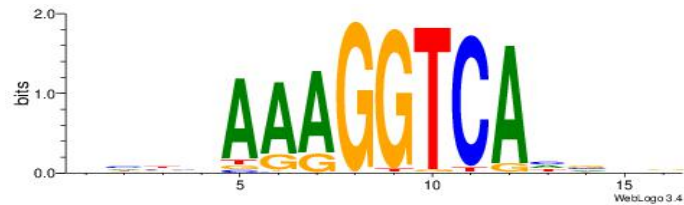
Similarity score: 0.0209211

Alignment:

DHBHAAAGGTCAHVHB  
----CKAGGCCACG--

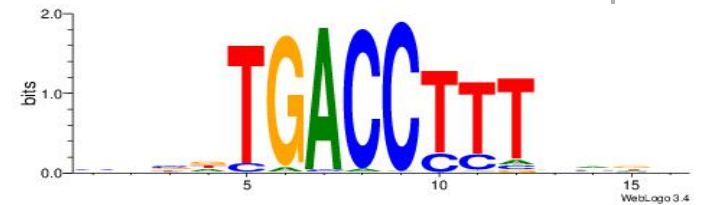
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 10  
Number of overlap: 10  
Similarity score: 0.0210008

Alignment:

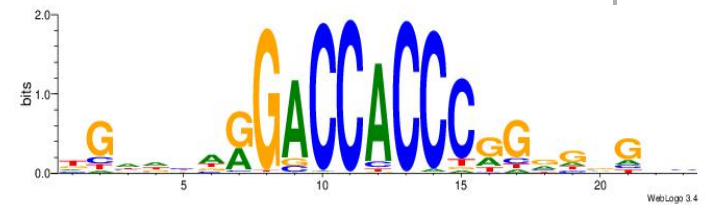
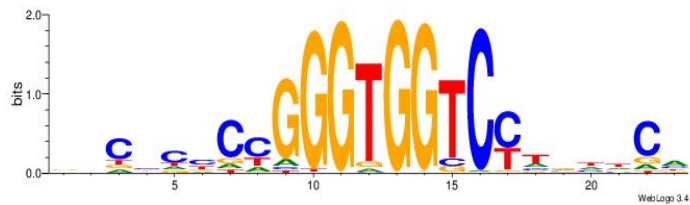
BHCBCBCCGGGTGGTCYHVHDCH  
-----CGTGGCCTYG-----

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

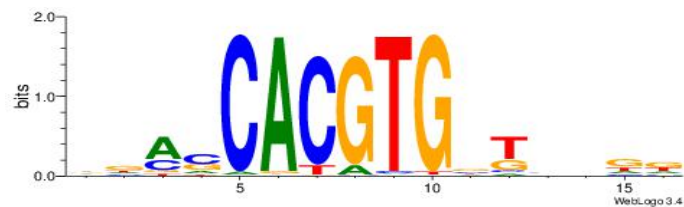


Motif ID: [UP00060](#)  
 Motif name: Max\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.0213955

Alignment:  
 DDASCACGTGBTBVDD  
 CKAGGCCACG-----

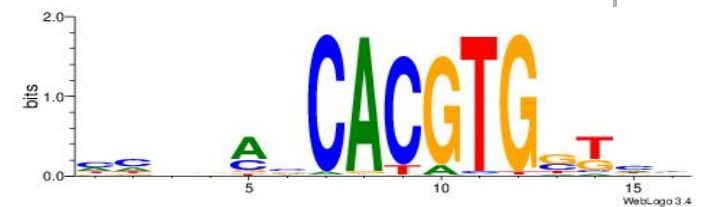
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary

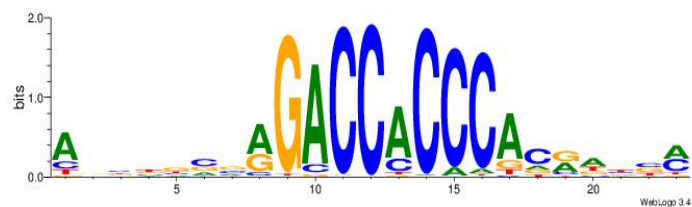
Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.021686

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT  
 -----CGTGGCCTYG-----

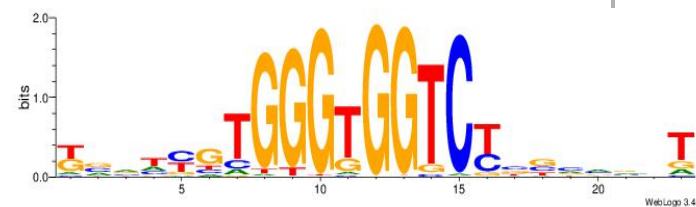
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT




---

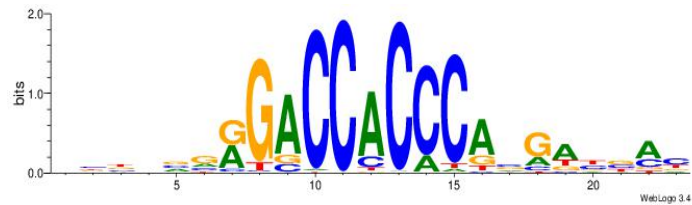
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0217225

Alignment:

```
BBBDVVRGACCACCCAVGABBAB  
----CKAGGCCACG-----
```

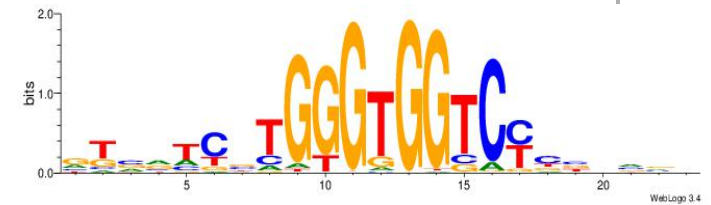
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



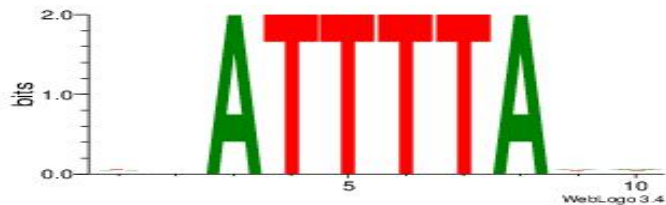
**Dataset #: 4**

**Motif ID: 71**

**Motif name: wyATTTTaww**

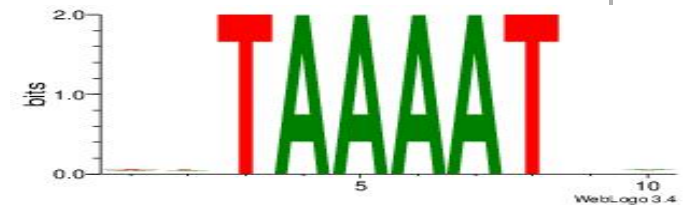
Original motif

Consensus sequence: DHATTTTADD



Reverse complement motif

Consensus sequence: DDTAAAATHD



### Best Matches for Motif ID 71 (Highest to Lowest)

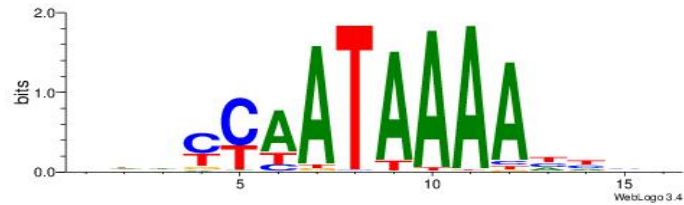
Motif ID:	<a href="#">UP00180</a>
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0

Alignment:  
HDHHTTTTATTKKHDD  
-DHATTTTADD-----

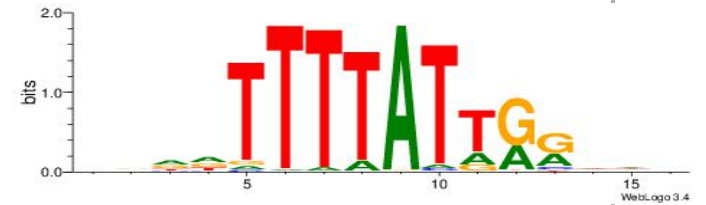
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



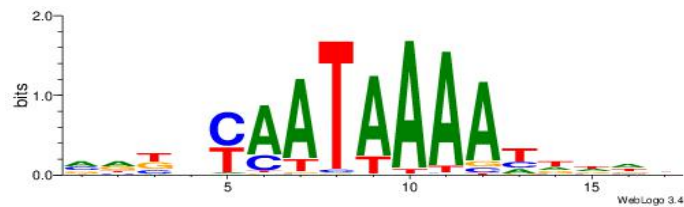
Motif ID: [UP00121](#)  
Motif name: Hoxd10  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.00187158

Alignment:

HDDDATTTTATTKVRDB  
--DHATTTTADD-----

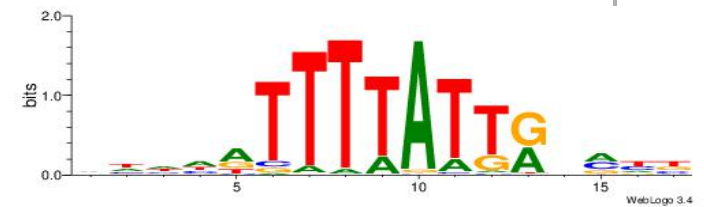
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00134](#)  
Motif name: Hoxb13  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.00524503

Alignment:

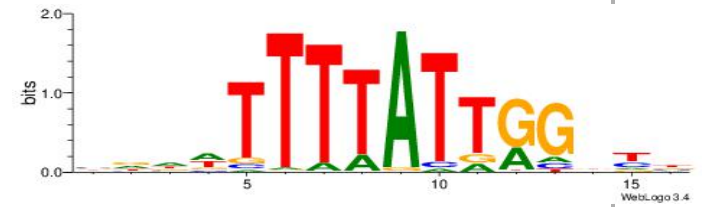
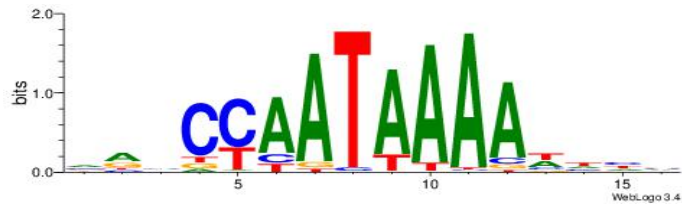
VDHWTTTTATTGGDKB  
-DHATTTTADD-----

Original motif

Consensus sequence: VRHCCAATAAAWHHV

Reverse complement motif

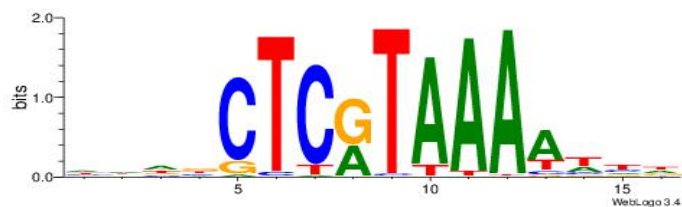
Consensus sequence: VDHWTTTTATTGGDKB



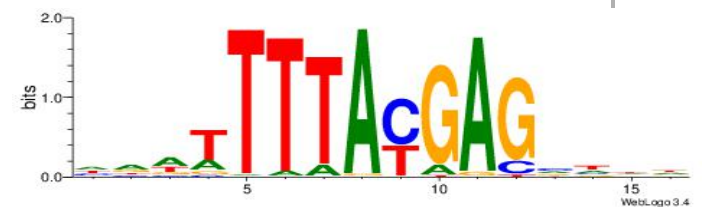
Motif ID: [UP00173](#)  
 Motif name: Hoxc13  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00820036

Alignment:  
 DHWTTTTAMGAGBDHH  
 DHATTTTADD-----

Original motif  
 Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif  
 Consensus sequence: DHWTTTTAMGAGBDHH



Motif ID: [UP00207](#)



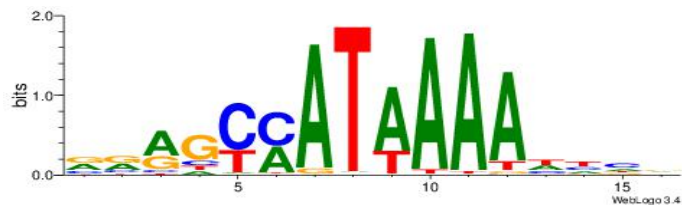
Motif name: Hoxb9  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.00965417

Alignment:

HDHHTTTTATRGCKMV  
 -DHATTTTADD-----

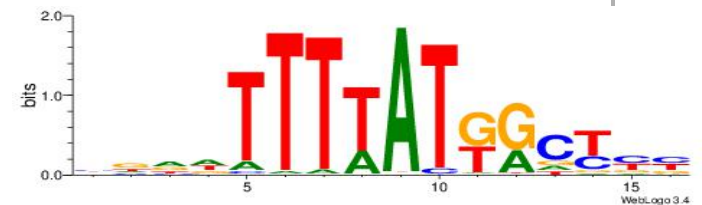
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV




---

Motif ID: [UP00183](#)  
 Motif name: Hoxa13  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10

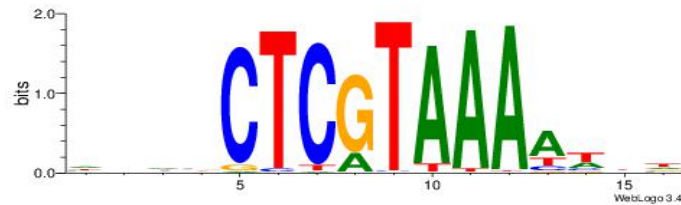
Similarity score: 0.0126106

Alignment:

DVWTTTTACGAGBHDH  
DHATTTTADD-----

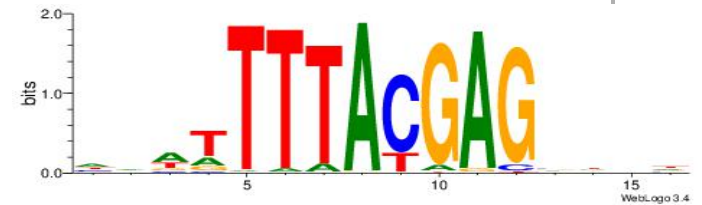
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTTACGAGBHDH



Motif ID: [UP00177](#)  
Motif name: Hoxd12  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 7  
Number of overlap: 10  
Similarity score: 0.0129115

Alignment:

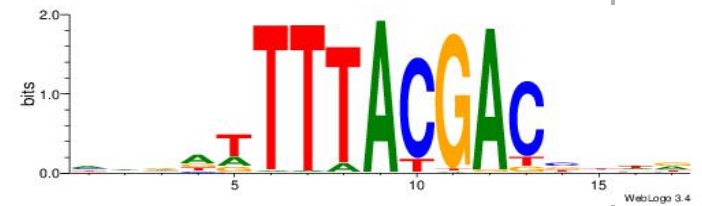
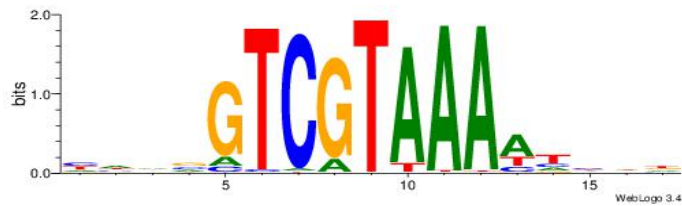
HHDVGTCGTAAAAHHHD  
-----DDTAAAATHD-

Original motif

Consensus sequence: HHDVGTCGTAAAAHHHD

Reverse complement motif

Consensus sequence: DHDHTTTTACGACVDHD

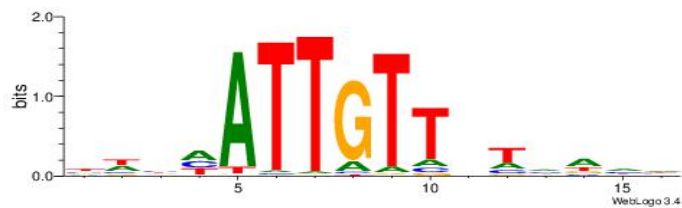


Motif ID: [UP00064](#)  
 Motif name: Sox18\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0140165

Alignment:  
 HHDHABAACAATHBWV  
 ----DDTAAAATHD--

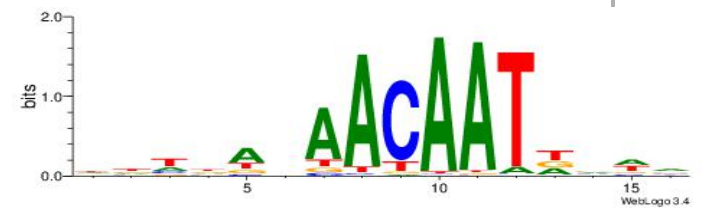
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



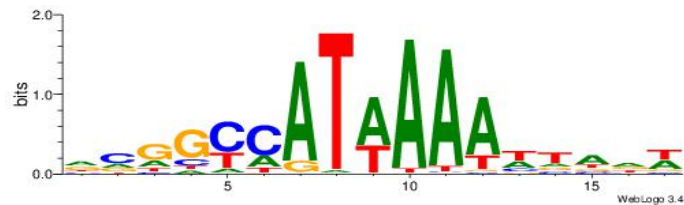
Motif ID: [UP00213](#)  
 Motif name: Hoxa9  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.0140371

Alignment:

WDTAWTTTWATGKCCGD  
 --DHATTTTADD-----

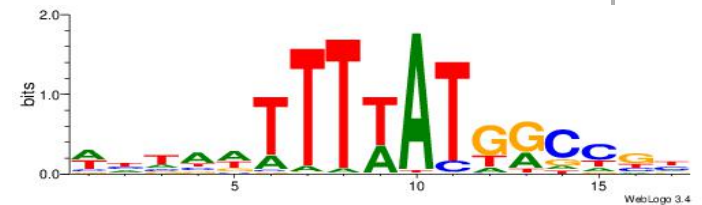
Original motif

Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



Motif ID: [UP00240](#)  
 Motif name: Cdx1  
 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: 10

Similarity score: 0.0141313

Alignment:

HRVTTTTATYACCBDD  
-----DDTAAAATHD

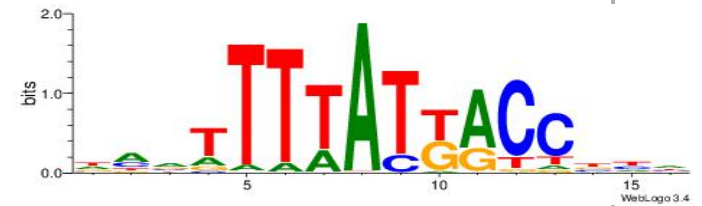
Original motif

Consensus sequence: DDVGGTMATAAAABKH



Reverse complement motif

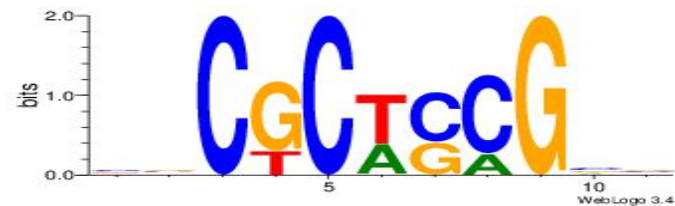
Consensus sequence: HRVTTTTATYACCBDD



**Dataset #: 4      Motif ID: 72      Motif name: ssCKCwsCGss**

Original motif

Consensus sequence: BVCGCWSCGBV



Reverse complement motif

Consensus sequence: VBCGSWGCGVB



### Best Matches for Motif ID 72 (Highest to Lowest)

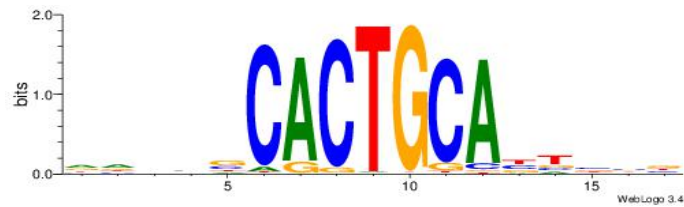
Motif ID: [UP00031](#)  
Motif name: Zbtb3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0194352

Alignment:  
 BBBAVTGCAGTGBBVDD  
 ---VBCGSWGCGVB---

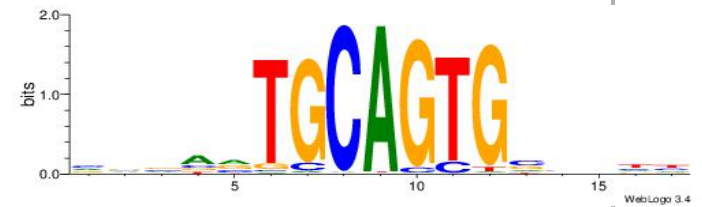
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



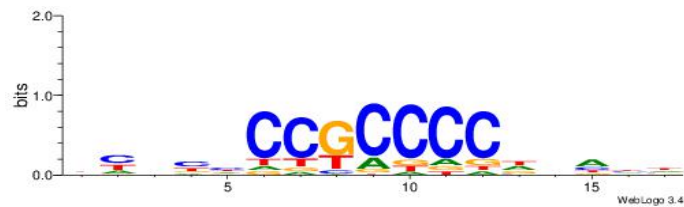
Motif ID: [UP00033](#)  
 Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0228071

Alignment:

BHHBHCCGCCCCDHHHH  
----BVCGCWSCGBV--

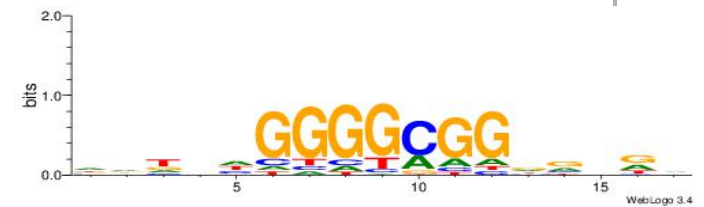
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00540](#)  
Motif name: Gli3\_v015681\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 7  
Number of overlap: 11  
Similarity score: 0.0232399

Alignment:

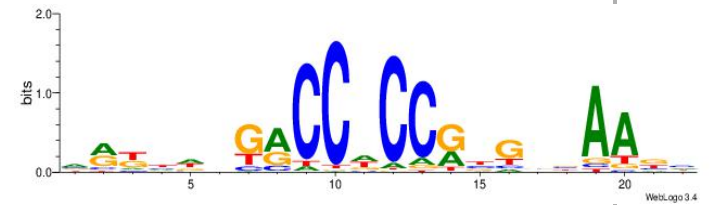
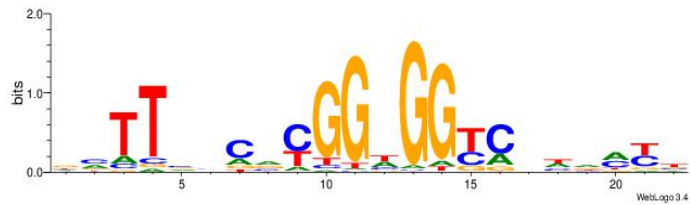
VMYDHDGMCCCHCKBGVVAHV  
-----BVCGCWSCGBV-----

Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB

Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHV

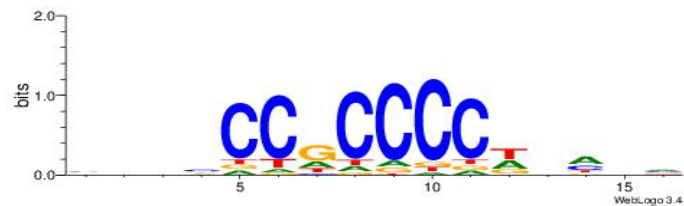


Motif ID: [UP00043](#)  
 Motif name: Bcl6b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0234478

Alignment:  
 HBBBCCGCCCCWHHHV  
 ---BVCGCWSCGBV--

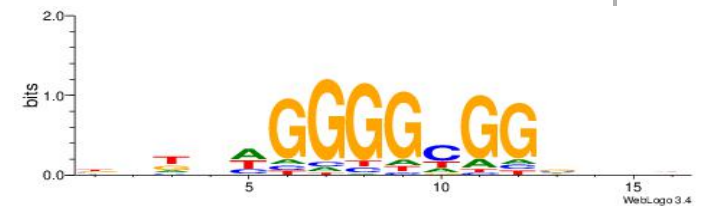
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00065](#)



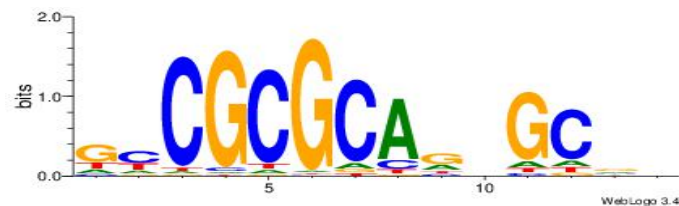
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0252863

Alignment:

VVGCVMTGCGCGKC  
-VBCGSWGCGB--

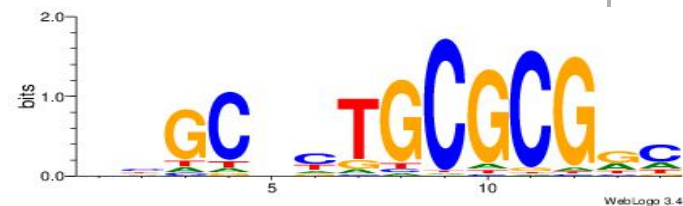
Original motif

Consensus sequence: GYCGGCGARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



---

Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 11

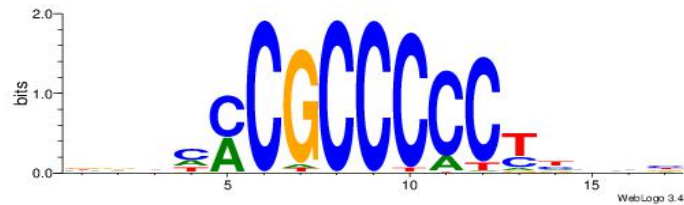
Similarity score: 0.0275921

Alignment:

BDHHMCGCCCCCTHVBB  
---BVCGCWSCGBV---

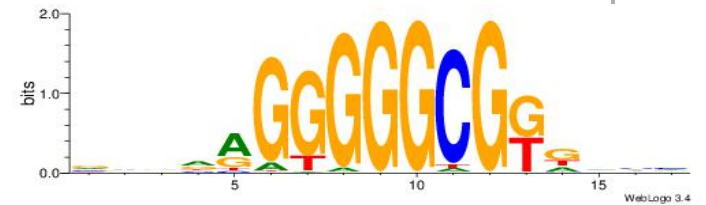
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00001](#)  
Motif name: E2F2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0283575

Alignment:

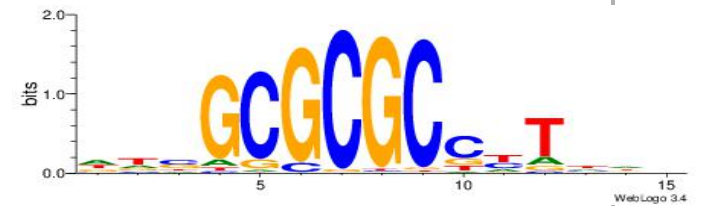
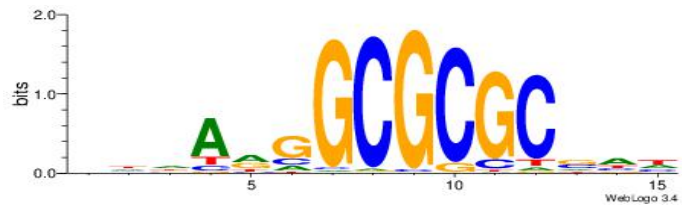
HHVGC GCGCCKTDHB  
--BVCGCWSCGBV--

Original motif

Consensus sequence: VHDARGGCGCGCVHH

Reverse complement motif

Consensus sequence: HHVGC GCGCCKTDHB



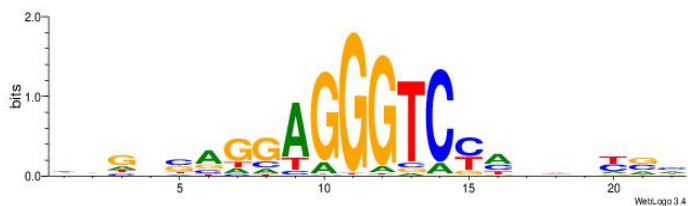
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0283837

**Alignment:**

```
DVMHHDHKGACCCTCCTSVCBH
-----BVCGCWSCGBV----
```

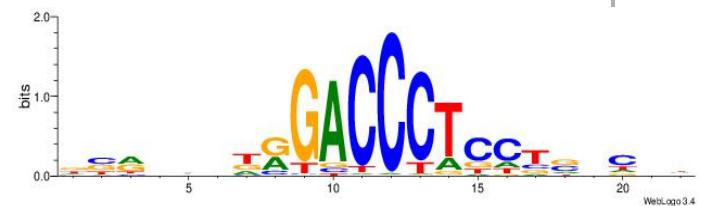
**Original motif**

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



**Reverse complement motif**

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



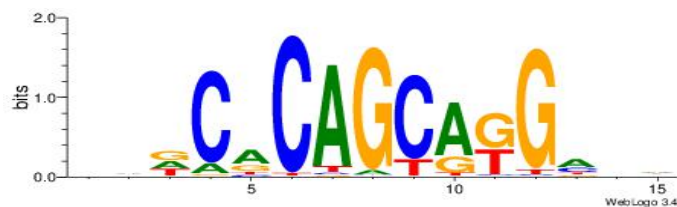
Motif ID: [UP00006](#)  
 Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 11  
 Similarity score: 0.0285568

Alignment:

DDDCACAGCAKGHVD  
 -VBCGSWGCGB---

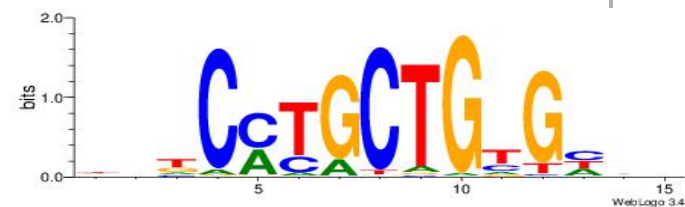
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



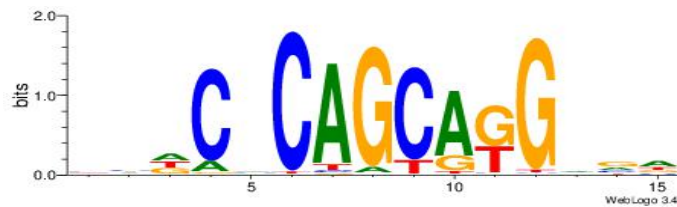
Motif ID: [UP00057](#)  
 Motif name: Zic2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2

Number of overlap: 11  
Similarity score: 0.0289868

Alignment:  
HHDCVCAGCAKGVVD  
-VBCGSWGCGV---

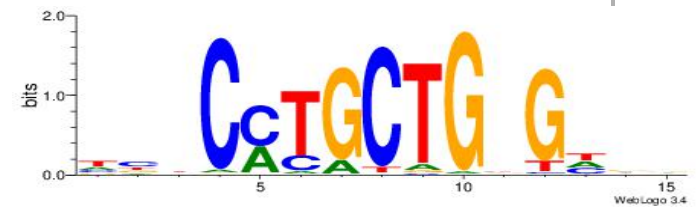
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

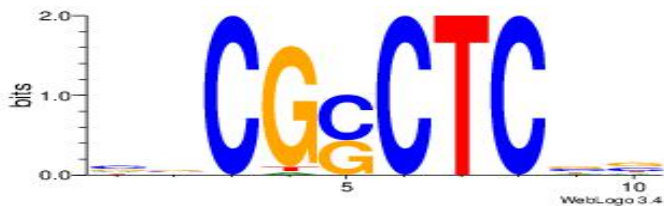
Consensus sequence: DVBCYTGCTGBGDDD



**Dataset #: 4      Motif ID: 73      Motif name: ssCGsCTCss**

Original motif

Consensus sequence: VVCGSCTCBB



Reverse complement motif

Consensus sequence: BBGAGSCGVV



### Best Matches for Motif ID 73 (Highest to Lowest)

Motif ID: [UP00095](#)  
Motif name: Zfp691\_secondary  
Species: Mus musculus

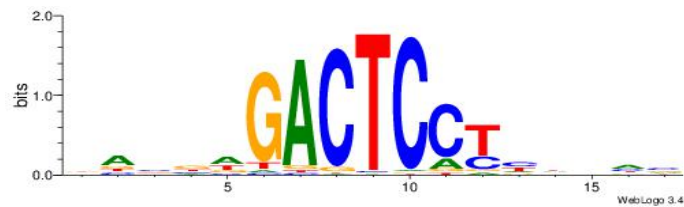
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.00650959

Alignment:

```
VHBDDAGGAGTCWBBTD
-----BBGAGSCGVV--
```

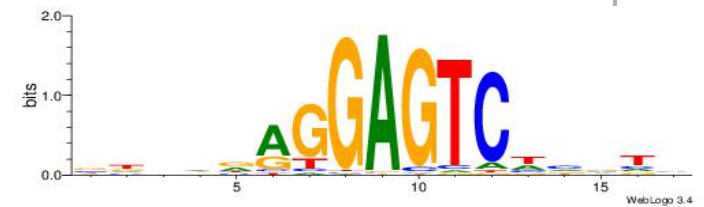
Original motif

Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



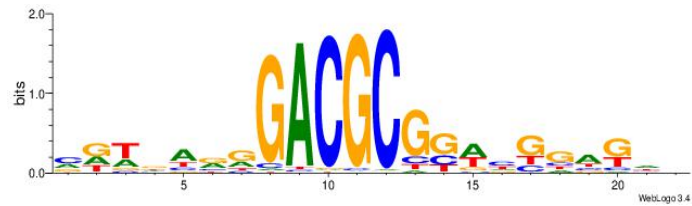
Motif ID:	<a href="#">UP00527</a>
Motif name:	Foxn4_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.00768675

Alignment:

VDWDARRGACGCGGWHGGAKHV  
-----BBGAGSCGVV-----

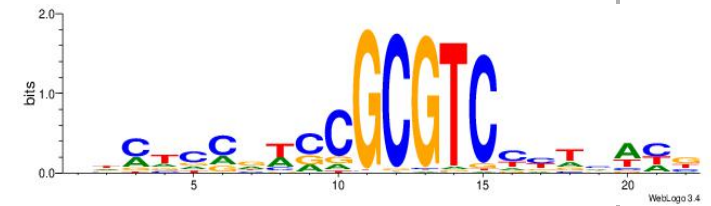
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



---

Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.011635

Alignment:

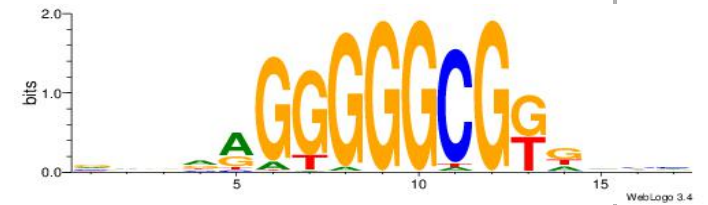
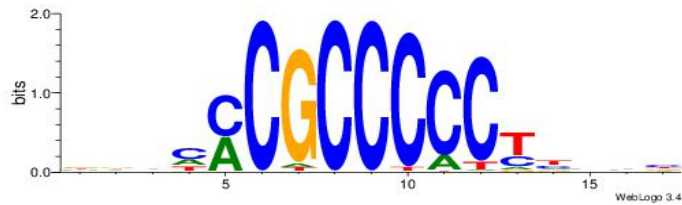
BDHHMCGCCCCCTHVBB  
---VVCGSCTCBB----

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

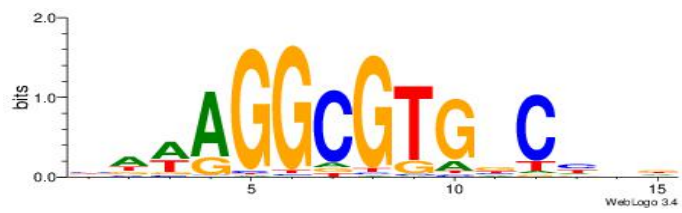


Motif ID: [UP00002](#)  
 Motif name: Sp4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.014161

Alignment:  
 BDWAGGCGTGBCHHD  
 BBGAGSCGVV-----

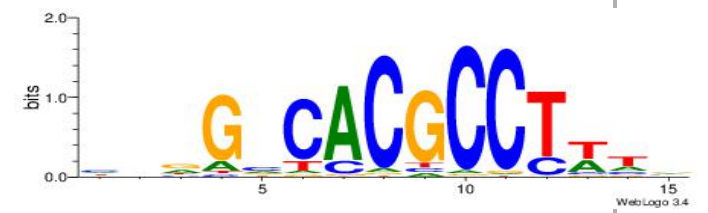
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HDDGBCACGCCTWDB



Motif ID: [UP00001](#)



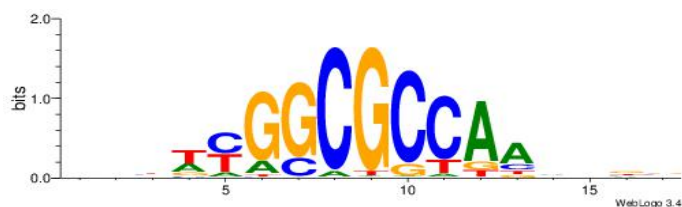
Motif name: E2F2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.0149491

**Alignment:**

BBBDTTGGCGCKWVVD  
 -----VVCGCTCBB-

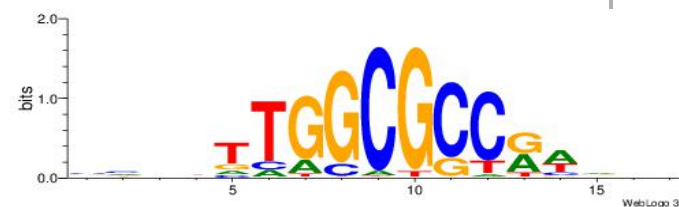
**Original motif**

Consensus sequence: HVBWYGGCGCCAADVBB



**Reverse complement motif**

Consensus sequence: BBBDTTGGCGCKWVVD




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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: 6  
 Number of overlap: 10

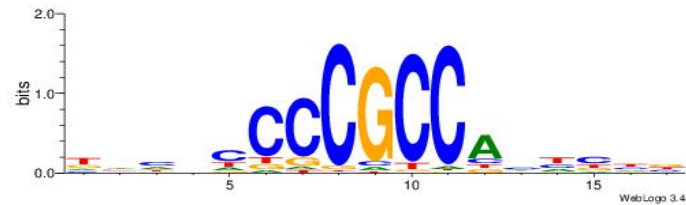
Similarity score: 0.0155554

Alignment:

DHHBCCCCGCCAHHBHB  
-----VVCGSCTCBB--

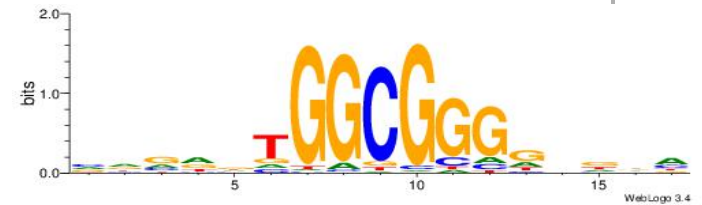
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: [UP00003](#)  
Motif name: E2F3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 7  
Number of overlap: 10  
Similarity score: 0.016609

Alignment:

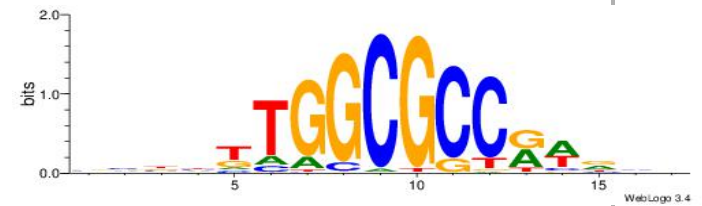
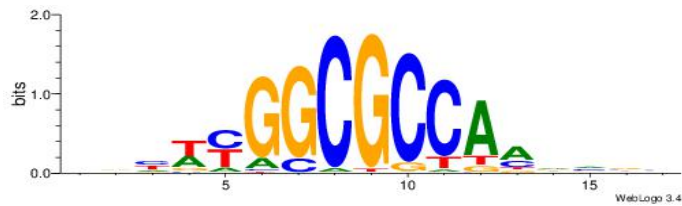
BBBDYTGGCGCKWDBD  
-----VVCGSCTCBB-

Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB

Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



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: 5  
 Number of overlap: 10  
 Similarity score: 0.0169272

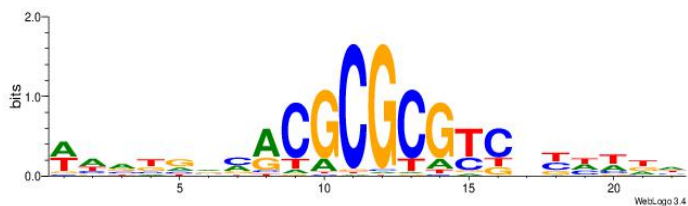
Alignment:

```

HDWHMHGACGCGCGTRBVVBHW
----BBGAGSCGVV-----
  
```

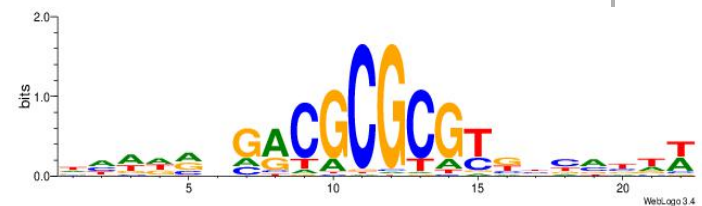
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



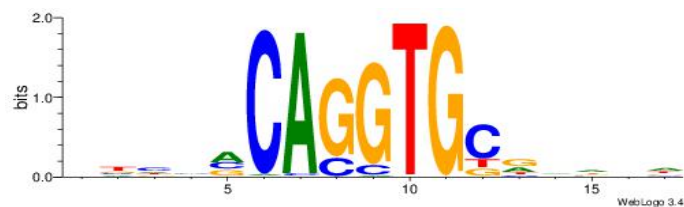
Motif ID: [UP00046](#)  
Motif name: Tcfe2a\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0171375

Alignment:

DHDBHGCACCTGBDDVB  
----VVCGSCTCBB----

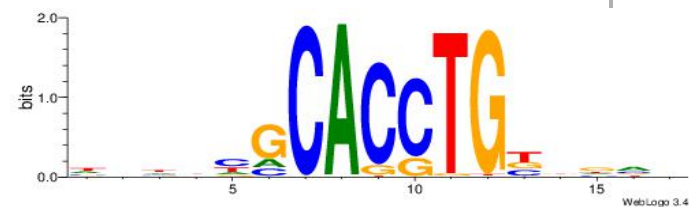
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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Motif ID: [UP00033](#)  
Motif name: Zfp410\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4

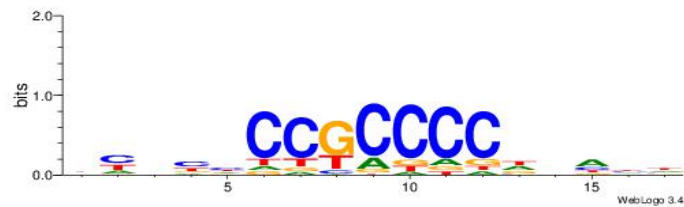
Number of overlap: 10  
Similarity score: 0.0173375

Alignment:

HHHHDGGGGCGGDBHDV  
---BBGAGSCGVV----

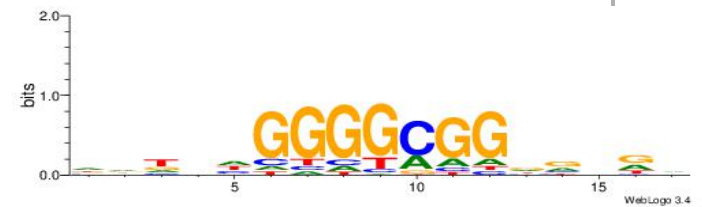
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



**Dataset #: 4      Motif ID: 74      Motif name: twTACATAvw**

Original motif

Consensus sequence: HHTACATAVD



Reverse complement motif

Consensus sequence: DBTATGTAHH



**Best Matches for Motif ID 74 (Highest to Lowest)**

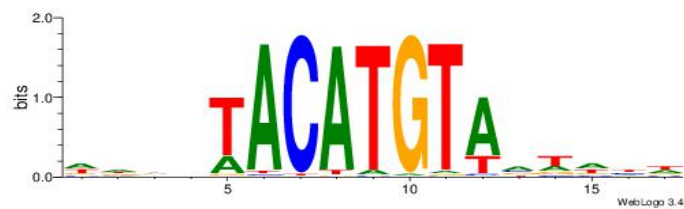
Motif ID: [UP00223](#)  
Motif name: Irx3\_2226.1  
Species: Mus musculus

Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0123822

Alignment:  
DDDHTACATGTAVWDHD  
--HHTACATAVD-----

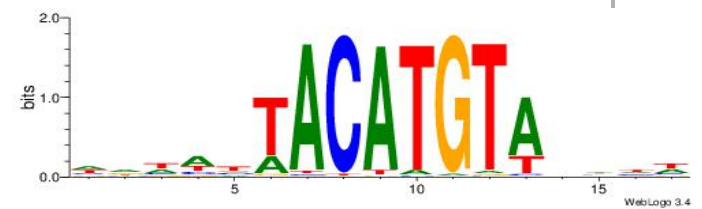
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



---

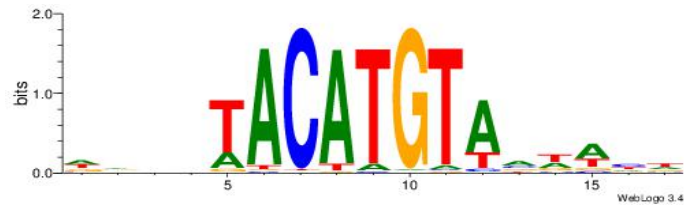
Motif ID: [UP00223](#)  
Motif name: Irx3\_0920.1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6  
Number of overlap: 10  
Similarity score: 0.0137483

Alignment:

DDDDTACATGTAVWWHD  
--HHTACATAVD-----

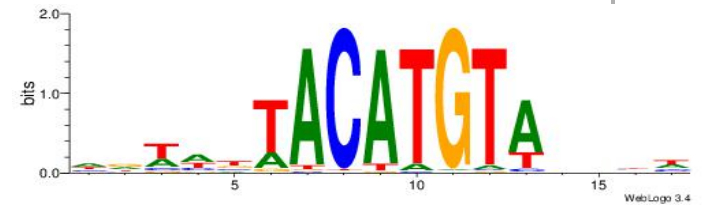
Original motif

Consensus sequence: DDDDTACATGTAVWWHD



Reverse complement motif

Consensus sequence: DDWWBTACATGTADDDD



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Motif ID:	<a href="#">UP00236</a>
Motif name:	Irx2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0138736

Alignment:

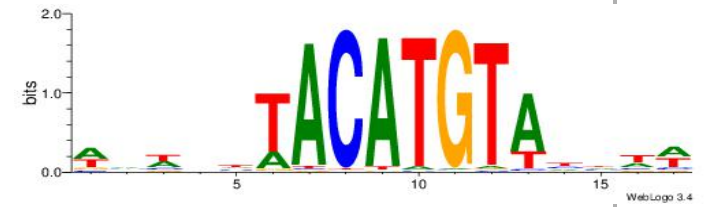
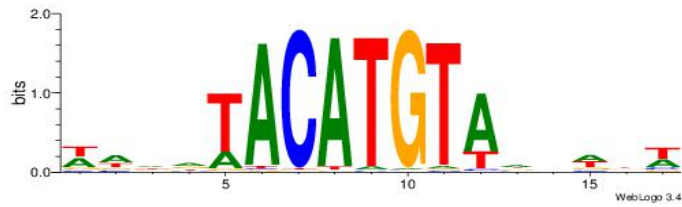
WDDDTACATGTADDWBW  
----DBTATGTAHH---

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WWDDTACATGTADDDW

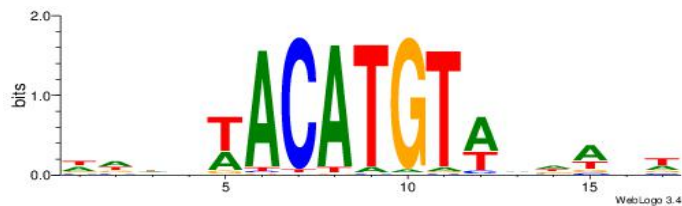


Motif ID: [UP00250](#)  
 Motif name: Irx5  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.0139791

Alignment:  
 DDDHWACATGTWHDABW  
 --HHTACATAVD-----

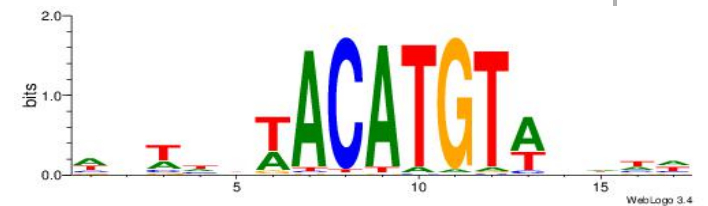
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDHWACATGTWHD



Motif ID: [UP00150](#)

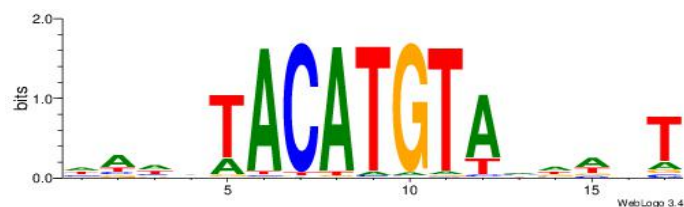


Motif name: Irx6  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0152254

Alignment:  
 HAHDTACATGTAVDWHT  
 ----DBTATGTAHH----

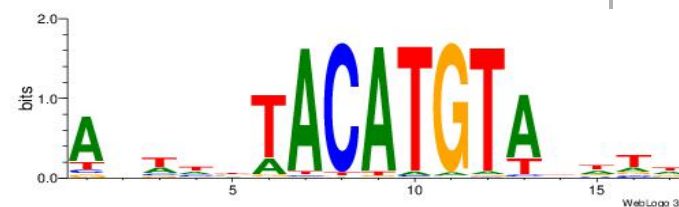
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH




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Motif ID: [UP00194](#)  
 Motif name: Irx4  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10

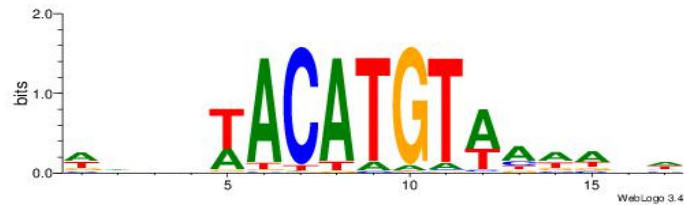
Similarity score: 0.0164523

Alignment:

WDHDWACATGTWAWABD  
--HHTACATAVD-----

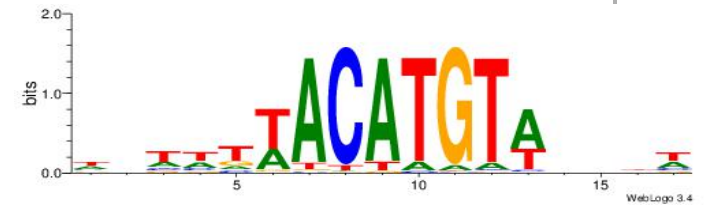
Original motif

Consensus sequence: WDHDWACATGTWAWABD



Reverse complement motif

Consensus sequence: DBTWTWACATGTWDHDW



Motif ID: [UP00191](#)  
Motif name: Pou2f2  
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: 10  
Similarity score: 0.0201818

Alignment:

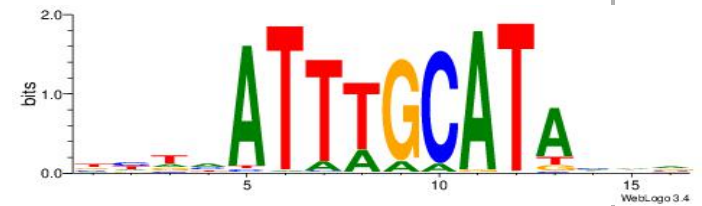
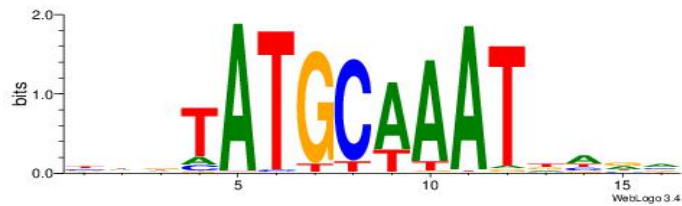
BHDTATGCAAATDHDV  
-DBTATGTAHH-----

Original motif

Consensus sequence: BHDTATGCAAATDHDV

Reverse complement motif

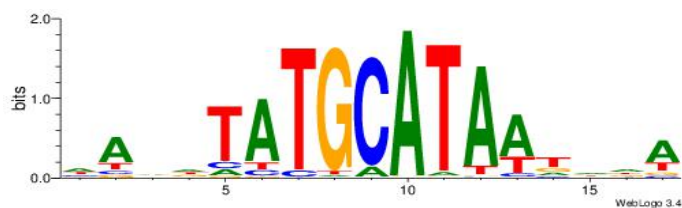
Consensus sequence: BHHDATTTGCATAHHV



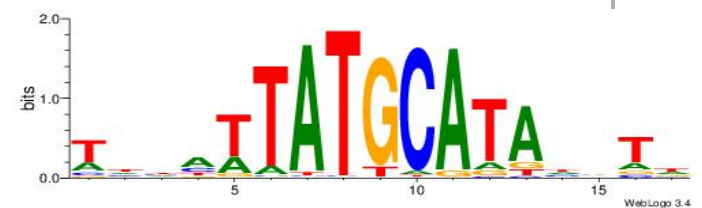
Motif ID: [UP00211](#)  
 Motif name: Pou3f3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.0208328

Alignment:  
 TDDATTATGCATADDTH  
 ---DBTATGTAHH----

Original motif  
 Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif  
 Consensus sequence: TDDATTATGCATADDTH



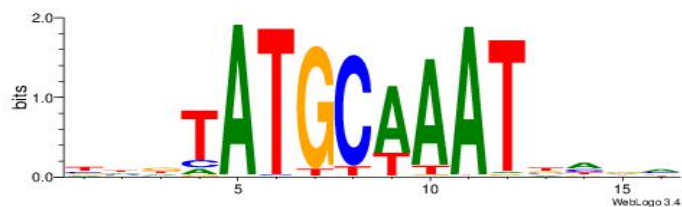
Motif ID: [UP00179](#)  
 Motif name: Pou2f3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.021579

Alignment:

BHD TATGCAAATBHDV  
 -DBTATGTAHH-----

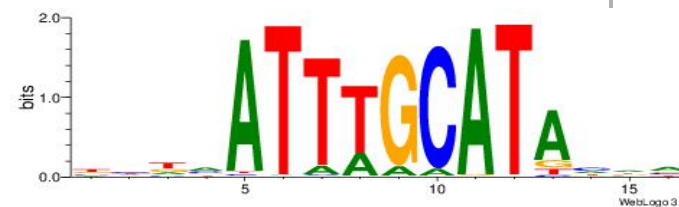
Original motif

Consensus sequence: BHD TATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



Motif ID: [UP00202](#)  
 Motif name: Dlx1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10

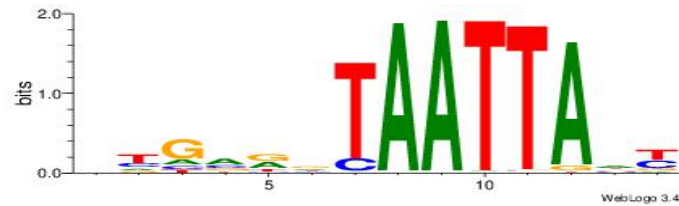
Similarity score: 0.022481

Alignment:

BHGVRDTAATTADY  
HHTACATAVD-----

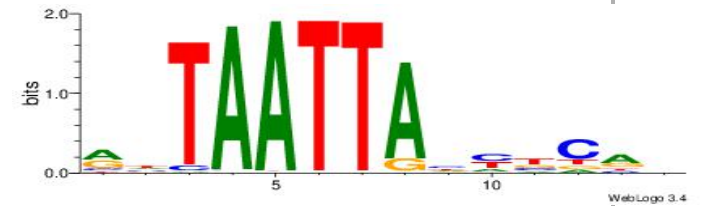
Original motif

Consensus sequence: BHGVRDTAATTADY



Reverse complement motif

Consensus sequence: MDTAATTAHMBCHB



**Dataset #: 4      Motif ID: 75      Motif name: yayAyAyACATrya**

Original motif

Consensus sequence: HACAYAYACATRHD



Reverse complement motif

Consensus sequence: DHKATGTKTKTGTD



### Best Matches for Motif ID 75 (Highest to Lowest)

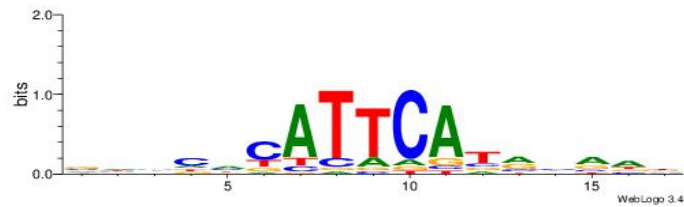
Motif ID: [UP00014](#)  
Motif name: Sox17\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0162651

Alignment:  
 VHBHHCATTCATRHVDD  
 -HACAYAYACATRHDD--

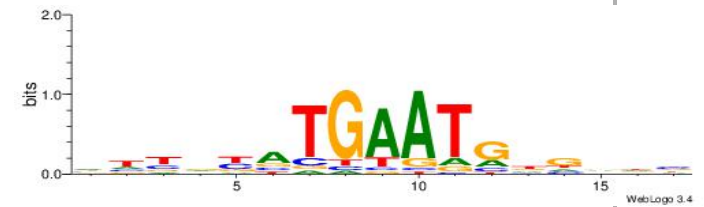
Original motif

Consensus sequence: VHBHHCATTCATRHVDD



Reverse complement motif

Consensus sequence: DDBDKATGAATGHDBHV




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Motif ID: [UP00084](#)  
 Motif name: Gmeb1\_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: 14  
 Similarity score: 0.0312261

Alignment:

BVVDVRYACGTRYVBHB  
HACAYAYACATRHD---

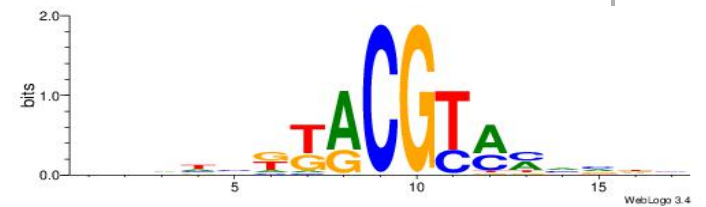
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



Motif ID: [UP00073](#)  
Motif name: Foxa2\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0319641

Alignment:

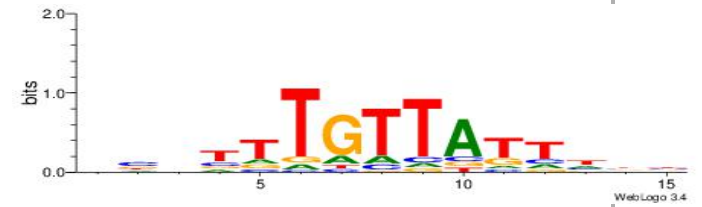
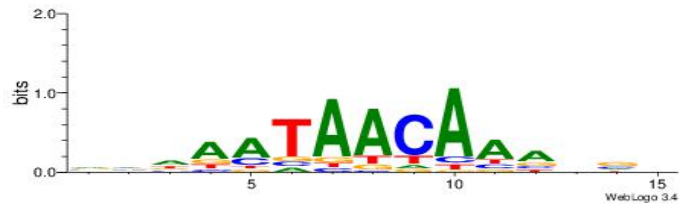
BVVTGGTTATTDBB  
-DHKATGTKTKTGT

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

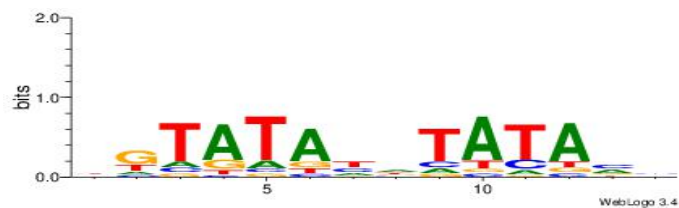
Consensus sequence: BVVTGGTTATTDBB



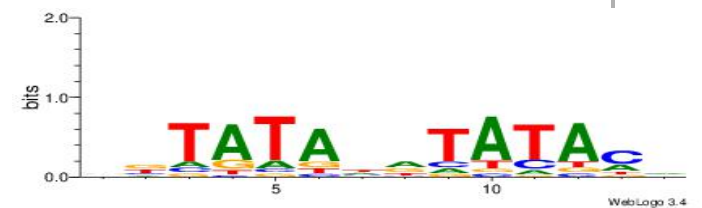
Motif ID: [UP00094](#)  
 Motif name: Zfp128\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0330608

Alignment:  
 VVTATADHTATAACD  
 HACAYAYACATRHD

Original motif  
 Consensus sequence: DGTATAHDTATAVV



Reverse complement motif  
 Consensus sequence: VVTATADHTATAACD



Motif ID: [UP00077](#)



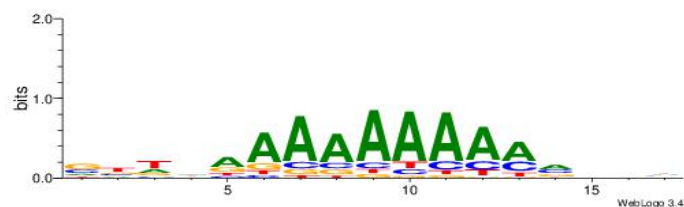
Motif name: Srf\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0335825

Alignment:

HHVBYTTTTTTTTDDVV  
-DHKATGKTKTGTD--

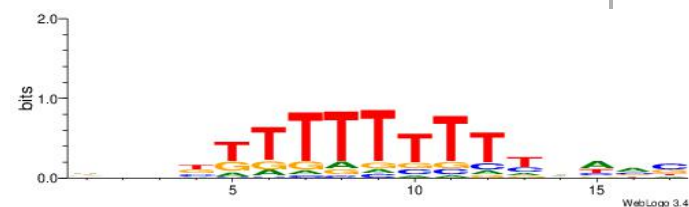
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



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Motif ID: [UP00039](#)  
Motif name: Foxj3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 14

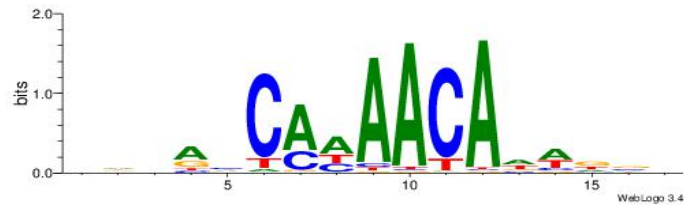
Similarity score: 0.0337861

Alignment:

DVHWDTGTTWTGDTBDH  
-DHKATGTKTKTGTD--

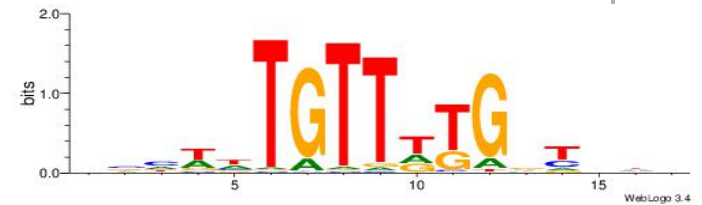
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



Motif ID: [UP00191](#)  
Motif name: Pou2f2  
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: 0.0342561

Alignment:

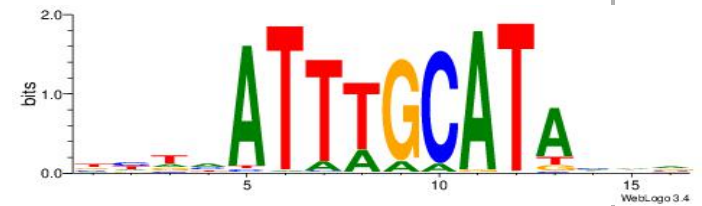
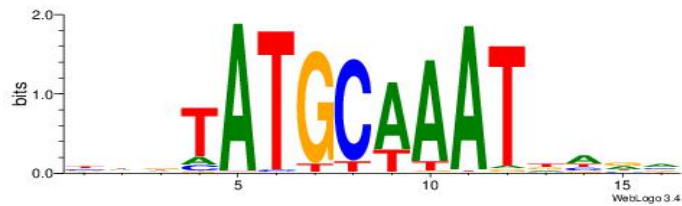
BHDTATGCAAATDHDV  
-HACAYAYACATRHD-

Original motif

Consensus sequence: BHDTATGCAAATDHDV

Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



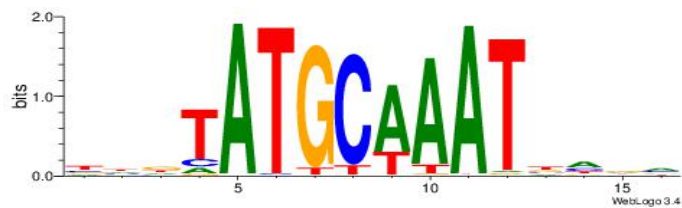
Motif ID: [UP00179](#)  
 Motif name: Pou2f3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0356249

**Alignment:**

BHD TATGCAAAT BHDV  
 -HACAYAYACATRHD-

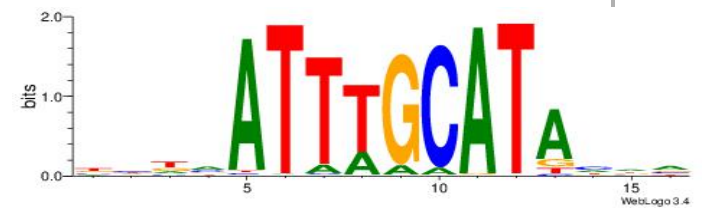
**Original motif**

Consensus sequence: BHD TATGCAAAT BHDV



**Reverse complement motif**

Consensus sequence: BHHVATTTGCATAHHV



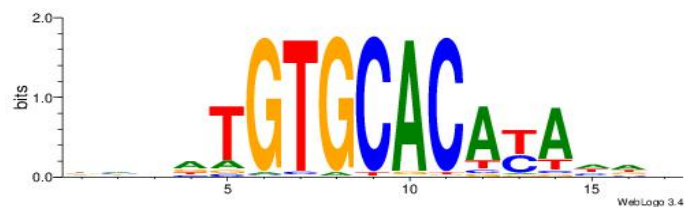
Motif ID: [UP00026](#)  
Motif name: Zscan4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0359941

Alignment:

DHVDTGTGCACAYAHDH  
--HACAYAYACATRHD-

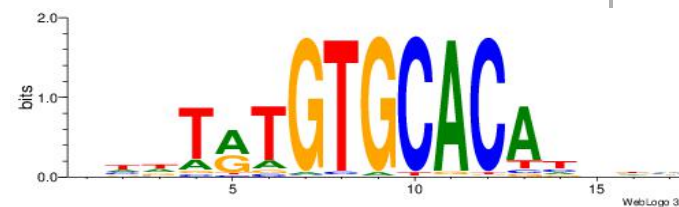
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



---

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: Backward  
Position number: 2

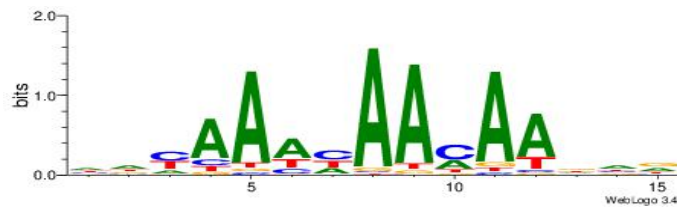
Number of overlap: 14  
Similarity score: 0.0382701

Alignment:

HHHTTRTTDTTTKDH  
DHKATGTKTKTGTD-

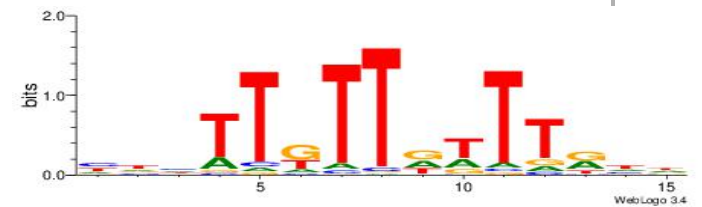
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



**Dataset #: 4      Motif ID: 76      Motif name: wwWAAAAAwa**

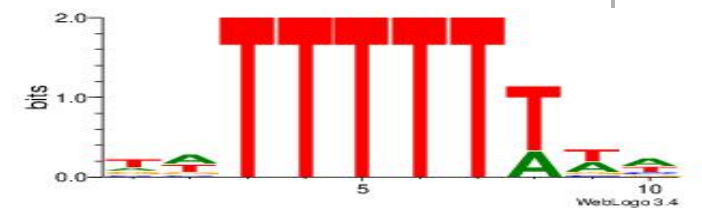
Original motif

Consensus sequence: WWAAAAAWH



Reverse complement motif

Consensus sequence: HWTTTTTWW



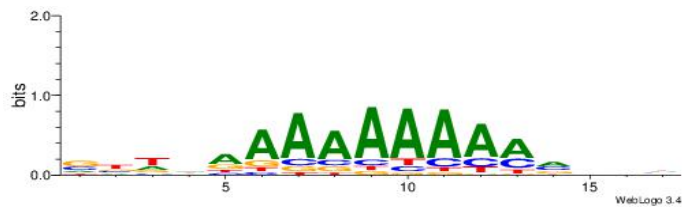
**Best Matches for Motif ID 76 (Highest to Lowest)**

Motif ID: [UP00077](#)  
Motif name: Srf\_secondary  
Species: Mus musculus

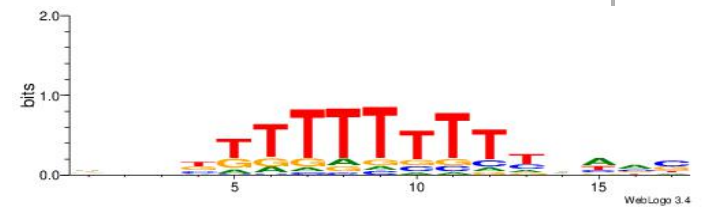
Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0

Alignment:  
 VBDDAAAAAAAAAMVBHH  
 ---WAAAAAAAAWH-----

Original motif  
 Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif  
 Consensus sequence: HHVBYTTTTTTTTDDV



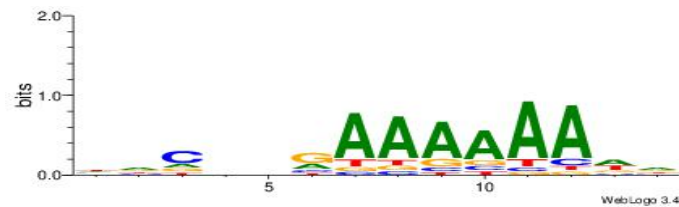
Motif ID: [UP00028](#)  
 Motif name: Tcfap2e\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.00191846

Alignment:

HDCDBRAAAAAADD  
----WWAAAAAAWH

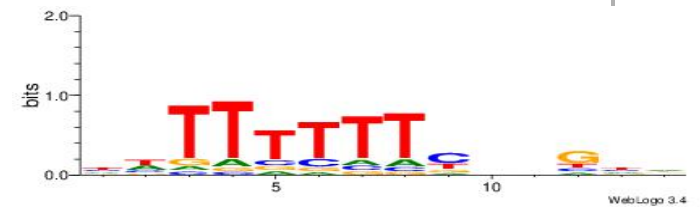
Original motif

Consensus sequence: HDCDBRAAAAAADD



Reverse complement motif

Consensus sequence: DDTTTTTTMBDGDH



Motif ID: [UP00090](#)  
Motif name: Elf3\_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: 10  
Similarity score: 0.00226308

Alignment:

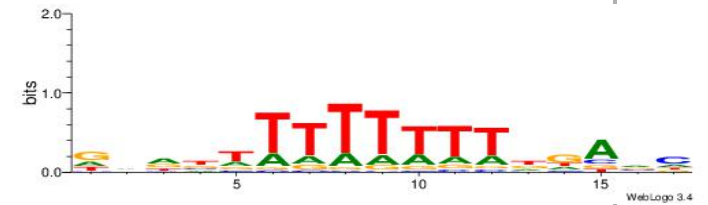
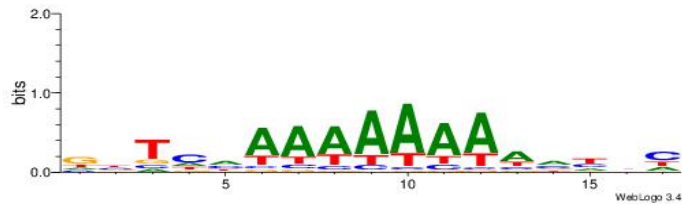
DBTHHAAAAAAAVHDH  
----WWAAAAAAWH----

Original motif

Consensus sequence: DBTHHAAAAAAAVHDH

Reverse complement motif

Consensus sequence: DDHBTTTTTTTTHDAVH

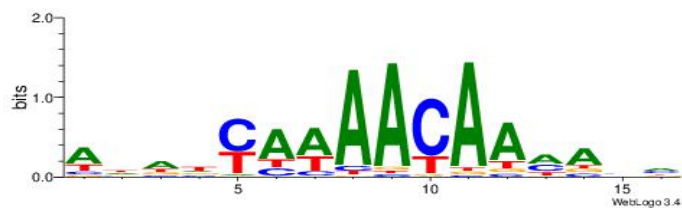


Motif ID: [UP00061](#)  
 Motif name: Foxl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.00489973

Alignment:  
 HDTYTTGTTWTKDDDT  
 --HWT TTT TTT TW----

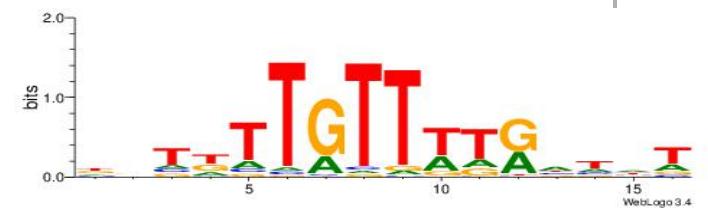
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00034](#)



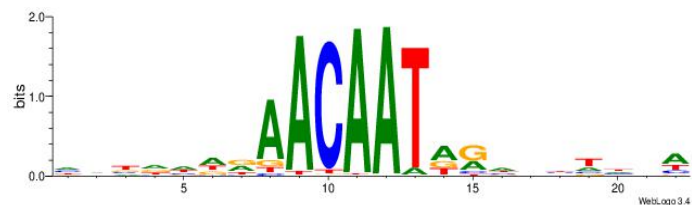
Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 10  
 Similarity score: 0.00607286

**Alignment:**

HHBDHDDAACAATDRHHHHHBW  
 ----WWAAAAAAWH-----

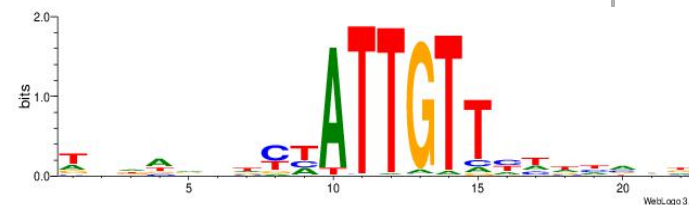
**Original motif**

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



**Reverse complement motif**

Consensus sequence: WBHHHHMDATTGTTHDHDVHH




---

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: 10

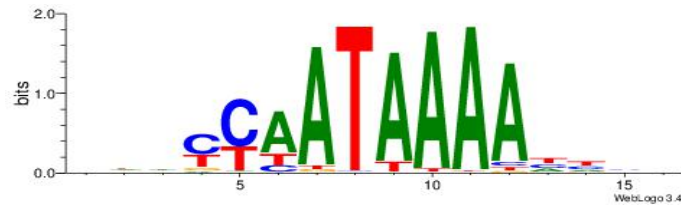
Similarity score: 0.0064777

Alignment:

```
HDHHTTTTATTKHDD  
--HWTTTTTTW----
```

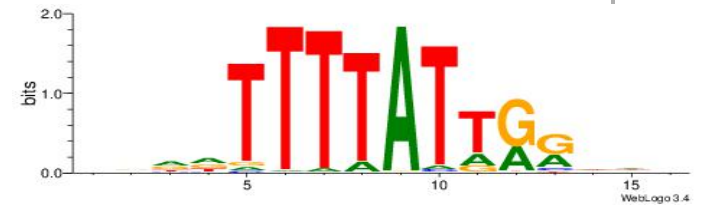
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKHDD



Motif ID: [UP00037](#)  
Motif name: Zfp105\_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: 10  
Similarity score: 0.00782136

Alignment:

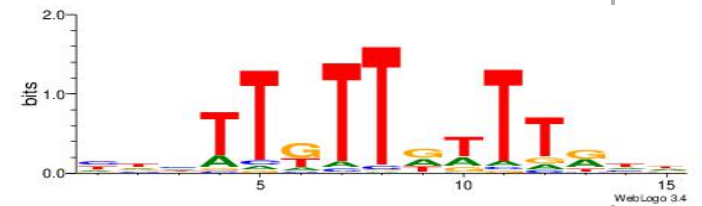
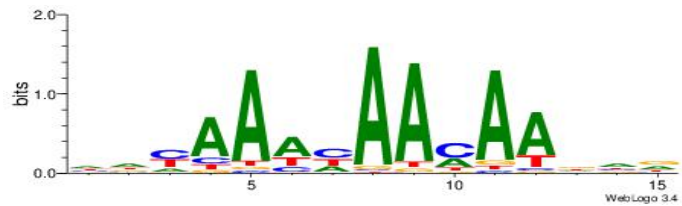
```
HDYAAHAAMAADHD  
----WWAAAAAWH-
```

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

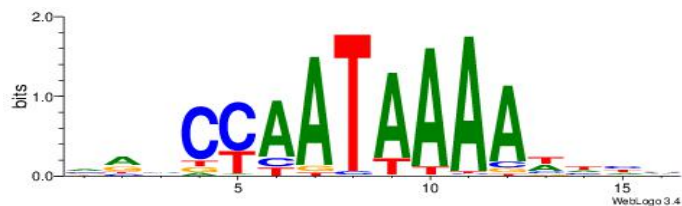
Consensus sequence: HHTTRTTDTTKDH



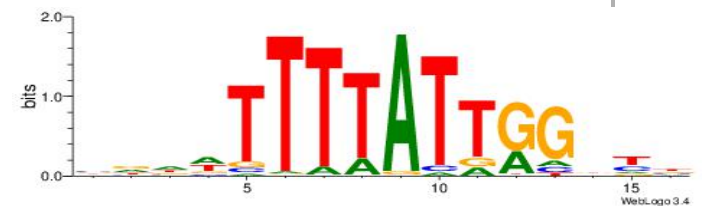
Motif ID: [UP00134](#)  
 Motif name: Hoxb13  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.00834591

Alignment:  
 VDHWT TTTATTGGDKB  
 --HWT TTTTTTW-----

Original motif  
 Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif  
 Consensus sequence: VDHWT TTTATTGGDKB



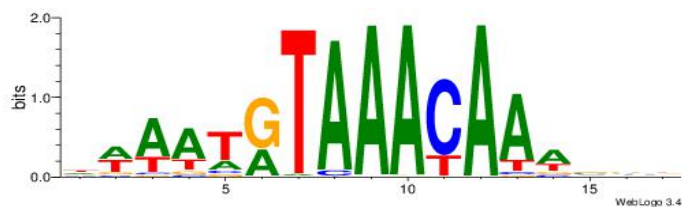
Motif ID: [UP00061](#)  
 Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.0105446

Alignment:

VVVWTTGTTTAMATTWD  
 ---HWTTTTTTTWW----

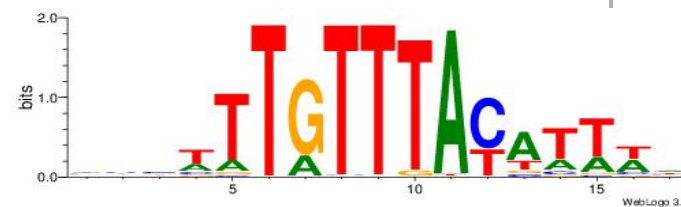
Original motif

Consensus sequence: DWAATRCAAACAAWVVB



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD

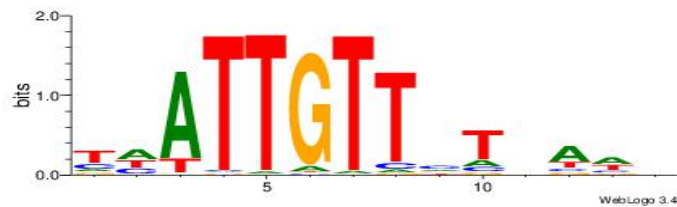


Motif ID: [UP00101](#)  
 Motif name: Sox12\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2

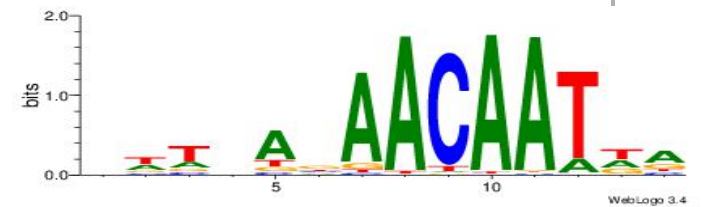
Number of overlap: 10  
Similarity score: 0.0107849

Alignment:  
DTHAVAACAATHA  
---WWAAAAAAWH-

Original motif  
Consensus sequence: THATTGTTVTHAWH

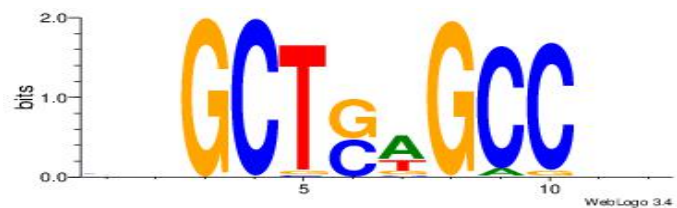


Reverse complement motif  
Consensus sequence: DWTHAVAACAATHA

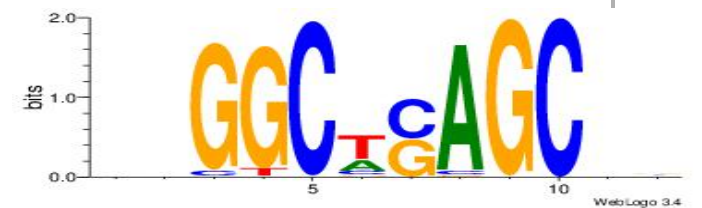


**Dataset #: 4      Motif ID: 77      Motif name: ssGCTswGCCms**

Original motif  
Consensus sequence: VBGCTSAGCCHB



Reverse complement motif  
Consensus sequence: BDGGCTSAGCBV



**Best Matches for Motif ID 77 (Highest to Lowest)**

Motif ID: [UP00028](#)  
Motif name: Tcfap2e\_primary  
Species: Mus musculus

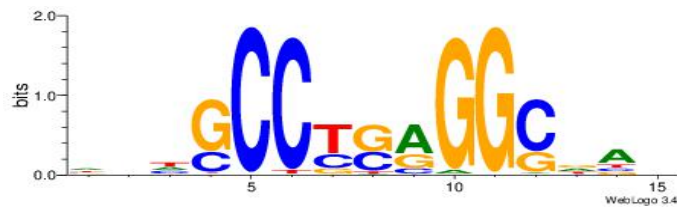
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0178468

Alignment:

```
DTHGCCTSAGGCHHH
--VBGCTSAGCCHB-
```

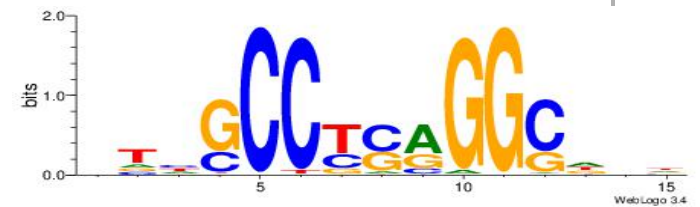
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



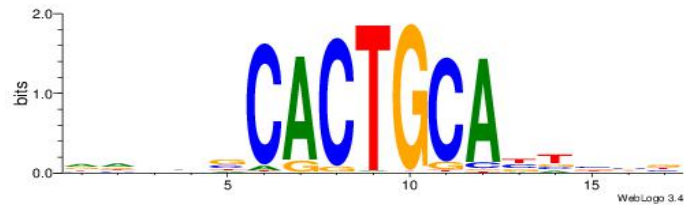
Motif ID:	<a href="#">UP00031</a>
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0257906

Alignment:

DDBBBCACTGCABTBBB  
--VBGCTSAGCCHB---

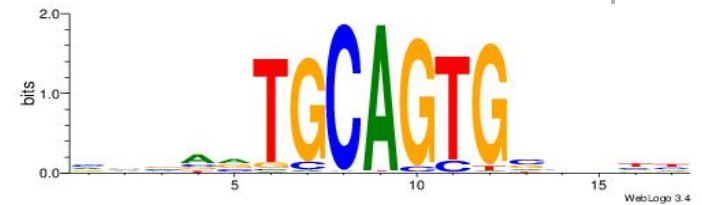
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



---

Motif ID: [UP00265](#)  
Motif name: Pitx3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.0262176

Alignment:

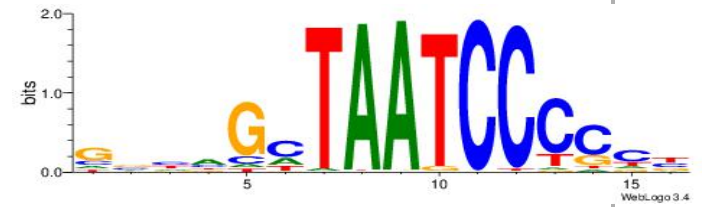
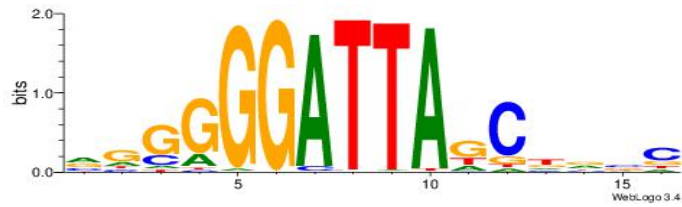
VGGGGGATTAGCDDBC  
--BDGGCTSAGCBV--

Original motif

Consensus sequence: VGGGGGATTAGCDDBC

Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB

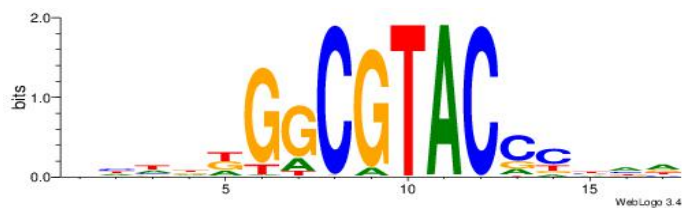


Motif ID: [UP00094](#)  
 Motif name: Zfp128\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0265413

Alignment:  
 BHHDKGGCGTACCCBHD  
 ---BDGGCTSAGCBV--

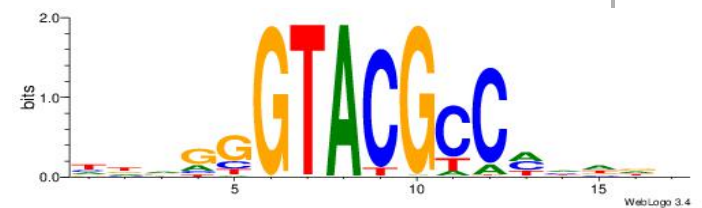
Original motif

Consensus sequence: BHHDKGGCGTACCCBHD



Reverse complement motif

Consensus sequence: DHVGGGTACGCCRDHDV



Motif ID: [UP00000](#)



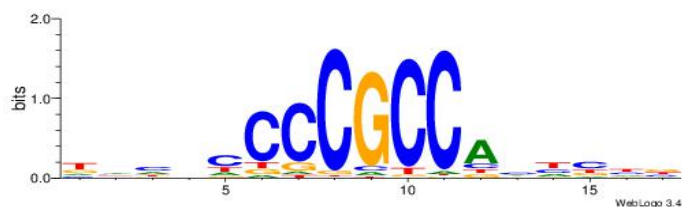
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0265988

Alignment:

DHHBCCCCGCCAHHBHB  
-VBGCTSAGCCHB----

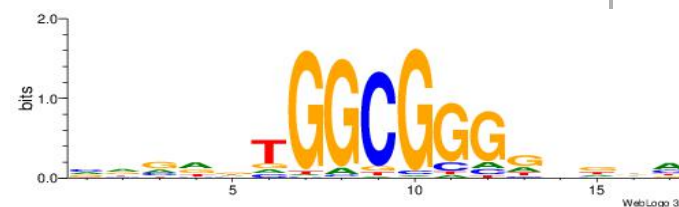
Original motif

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: Backward  
Position number: 2  
Number of overlap: 12

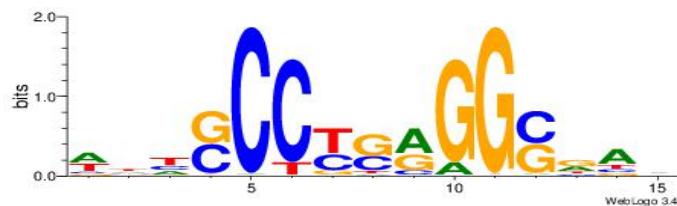
Similarity score: 0.0295577

Alignment:

DTHSCCKSMGGSHHW  
--VBGCTSAGCCHB-

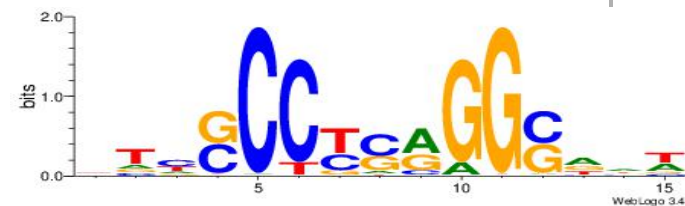
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



Motif ID: [UP00009](#)  
Motif name: Nr2f2\_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: 12  
Similarity score: 0.0296351

Alignment:

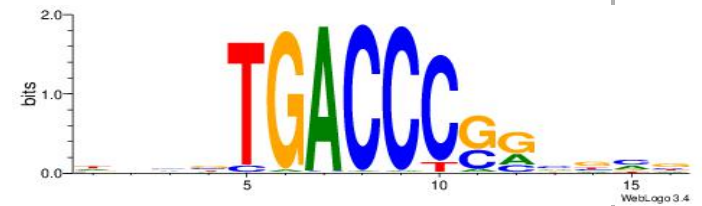
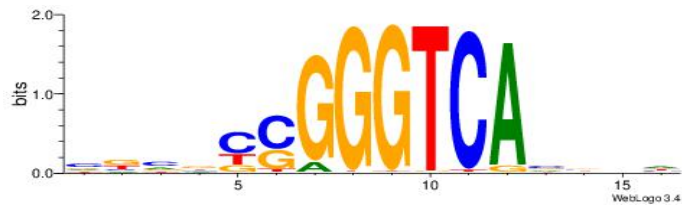
VBVBCSGGGTCAVBBH  
----BDGGCTSAGCBV

Original motif

Consensus sequence: VBVBCSGGGTCAVBBH

Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 12  
 Similarity score: 0.0298391

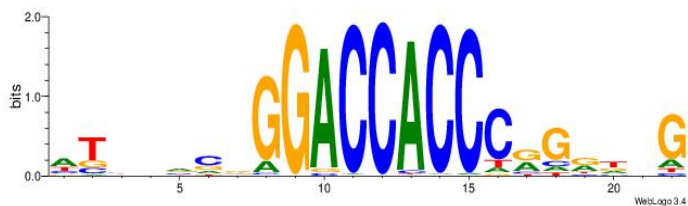
**Alignment:**

```

CBDMCMGGGTGGTCCHVBVBAH
-----VBGCTSAGCCHB-----
  
```

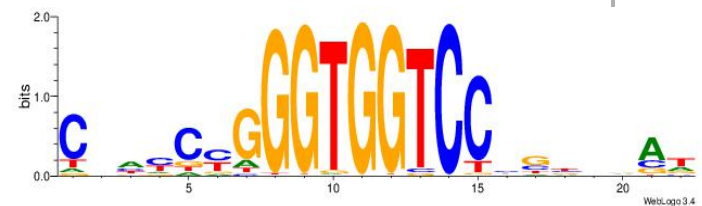
**Original motif**

Consensus sequence: HTBWVVDGGACCACCCRGRDBG



**Reverse complement motif**

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



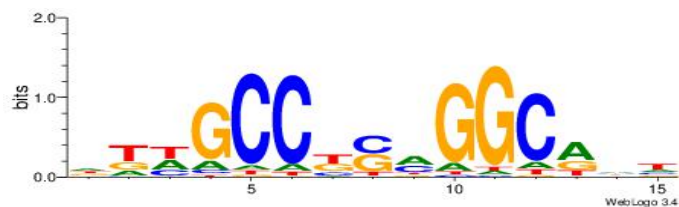
Motif ID: [UP00010](#)  
Motif name: Tcfap2b\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.0307842

Alignment:

HHKGCCYSRGGCWAD  
-BDGGCTSAGCBV--

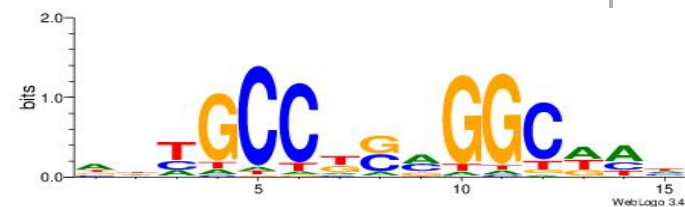
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



---

Motif ID: [UP00176](#)  
Motif name: Crx  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5

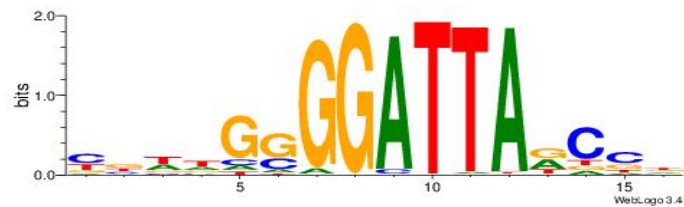
Number of overlap: 12  
Similarity score: 0.0313858

Alignment:

YBWDGGGGATTARCCD  
----BDGGCTSAGCBV

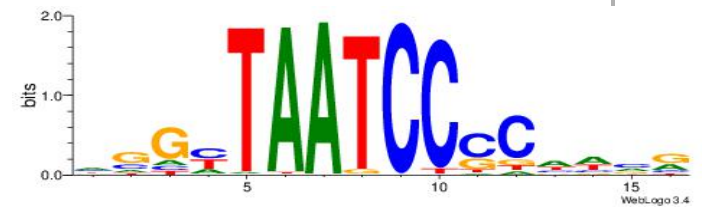
Original motif

Consensus sequence: YBWDGGGGATTARCCD



Reverse complement motif

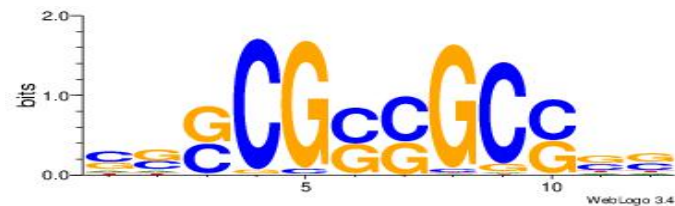
Consensus sequence: DGGMTAATCCCCDWBK



**Dataset #: 4      Motif ID: 78      Motif name: sssCGssGCsss**

Original motif

Consensus sequence: SSSCGSSGCSSS



Reverse complement motif

Consensus sequence: SSSGCSSCGSSS



**Best Matches for Motif ID 78 (Highest to Lowest)**

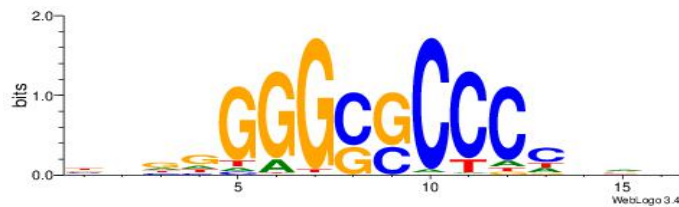
Motif ID: [UP00088](#)  
Motif name: Plagl1\_primary  
Species: Mus musculus

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0237651

Alignment:  
 BHDGGGGSSCCCBVV  
 -SSSCGSSGCSSS---

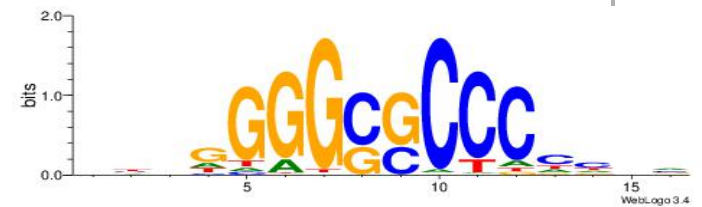
Original motif

Consensus sequence: BHDGGGGSSCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGSSCCCHHV




---

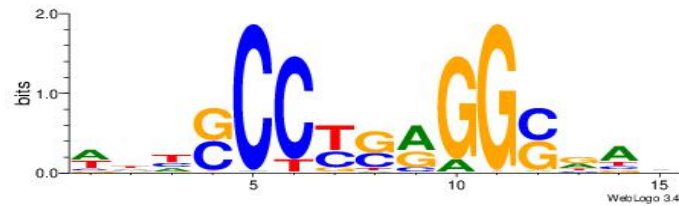
Motif ID:	<a href="#">UP00087</a>
Motif name:	Tcfap2c_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0238341

Alignment:

DTHSCCKSMGGSHHW  
--SSSCGSSGCSSS-

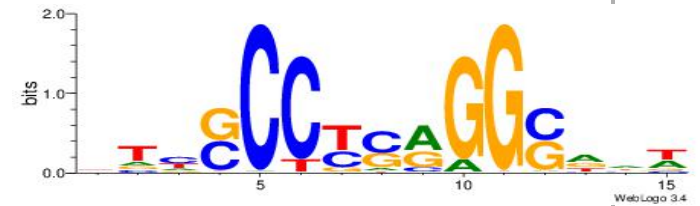
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



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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: 4  
Number of overlap: 12  
Similarity score: 0.0241911

Alignment:

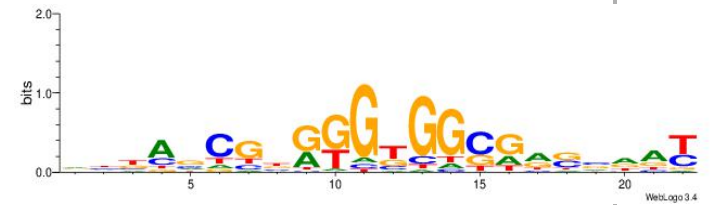
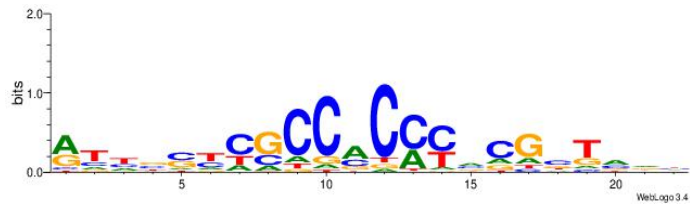
HDBABCGBKRGYGGCGMSBHAK  
-----SSSGCSSCGSSS----

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK

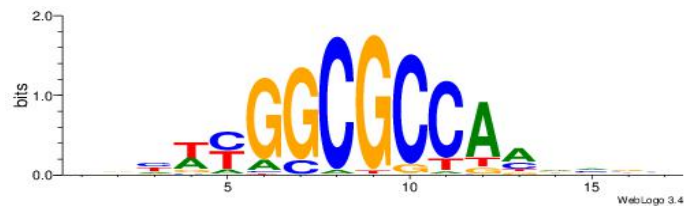


Motif ID: [UP00003](#)  
 Motif name: E2F3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0267639

Alignment:  
 HBHWYGGCGCCAMDVB  
 ----SSSCGSSGSSS-

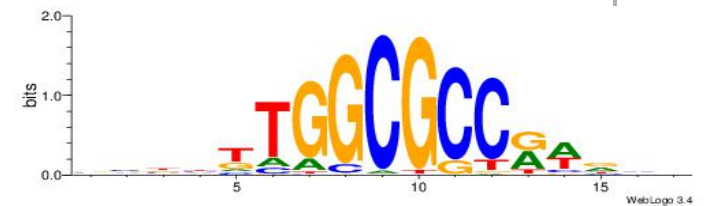
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00005](#)



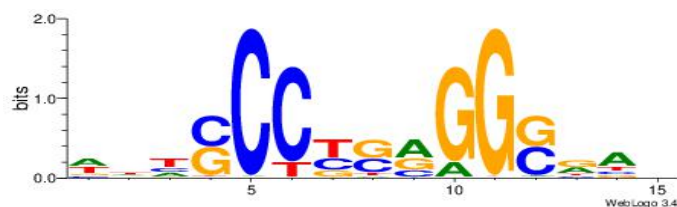
Motif name: Tcfap2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0268388

**Alignment:**

DTMSCCKSMGGSHDW  
 --SSSCGSSGCSSS-

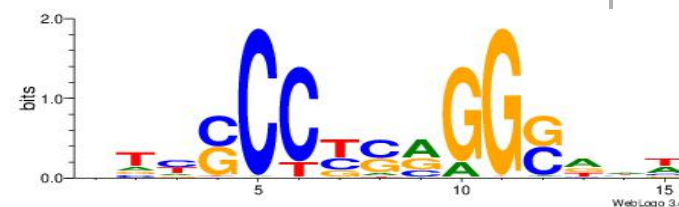
**Original motif**

Consensus sequence: WDHSCCYSRGGSRAD



**Reverse complement motif**

Consensus sequence: DTMSCCKSMGGSHDW




---

Motif ID: [UP00028](#)  
 Motif name: Tcfap2e\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12

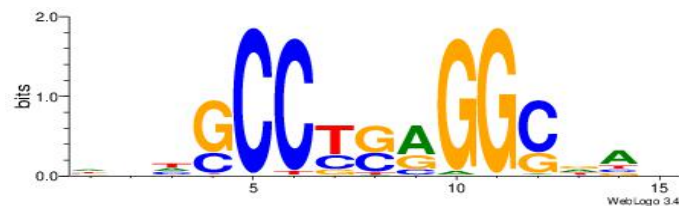
Similarity score: 0.0276439

Alignment:

DTHGCCTSAGGCHHH  
--SSSCGSSGCSSS-

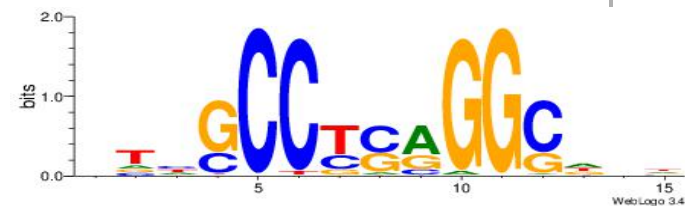
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



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: Backward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.0277305

Alignment:

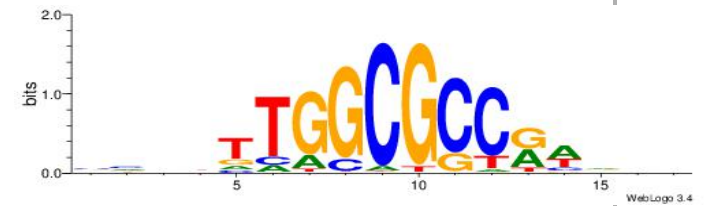
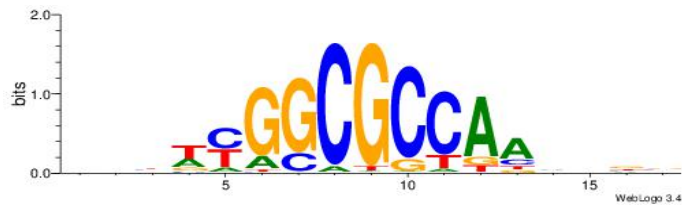
HVBWYGGCGCCAADVBB  
----SSSCGSSGCSSS-

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

Consensus sequence: BBBDDTTGGCGCCKWVVD



Motif ID: [UP00084](#)  
 Motif name: Gmeb1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0282791

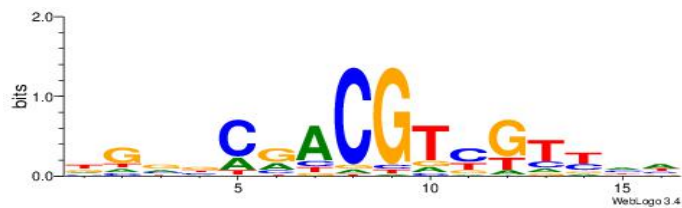
**Alignment:**

```

HHMACKACGTMGBVCD
----SSSCGSSGCSSS
  
```

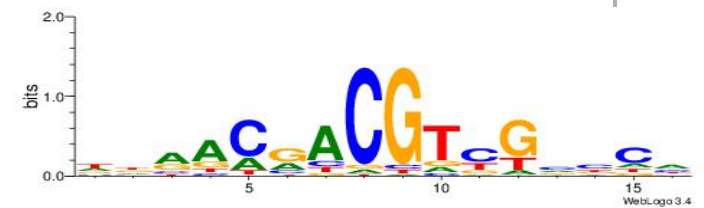
**Original motif**

Consensus sequence: DGVBCRACGTYGTYHH



**Reverse complement motif**

Consensus sequence: HHMACKACGTMGBVCD



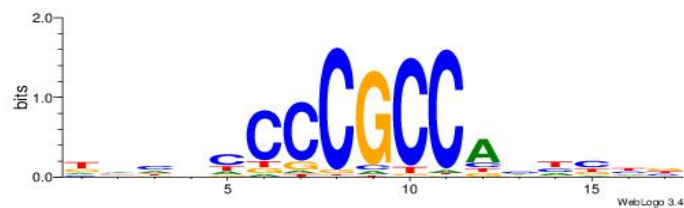
Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.0288849

Alignment:

```
BHBHDTGGCGGGBDHD  
----SSSGCSSCGSSS-
```

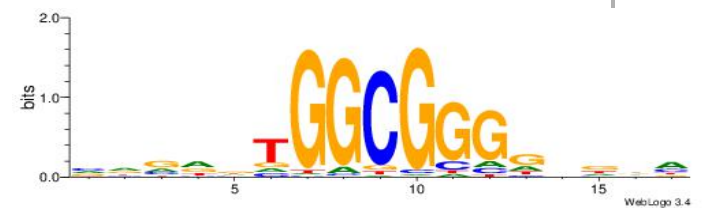
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



---

Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4

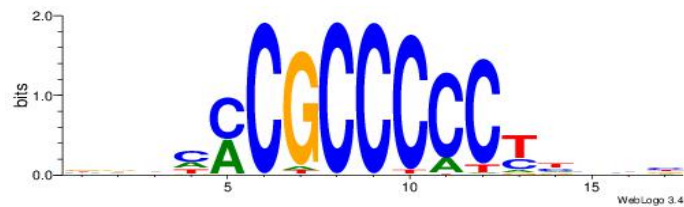
Number of overlap: 12  
Similarity score: 0.0327414

Alignment:

BDHMC G C C C C C T H V B B  
--SSSCGSSG C S S S---

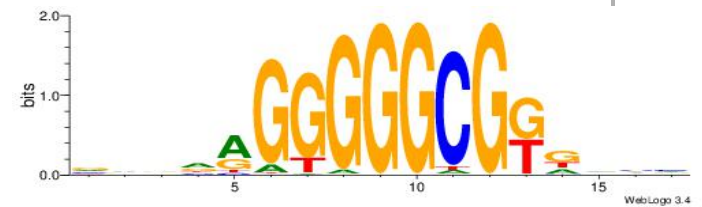
Original motif

Consensus sequence: BDHMC G C C C C C T H V B B



Reverse complement motif

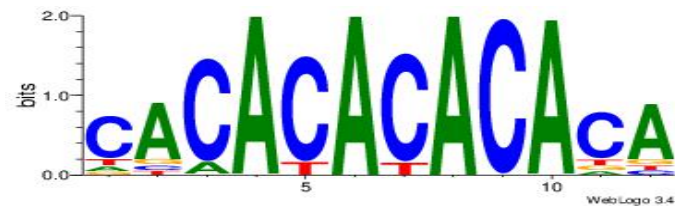
Consensus sequence: B V V H A G G G G G C G R D H H B



**Dataset #: 4      Motif ID: 79      Motif name: CACACACACACA**

Original motif

Consensus sequence: CACACACACACA



Reverse complement motif

Consensus sequence: TGTGTGTGTGTG



**Best Matches for Motif ID 79 (Highest to Lowest)**

Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
Species: Mus musculus

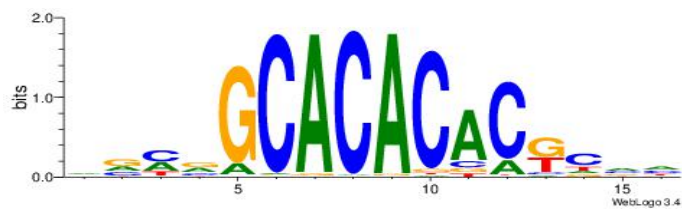
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0

Alignment:

```
HBGYGTGTGTGCVRVD
-TGTGTGTGTGTG---
```

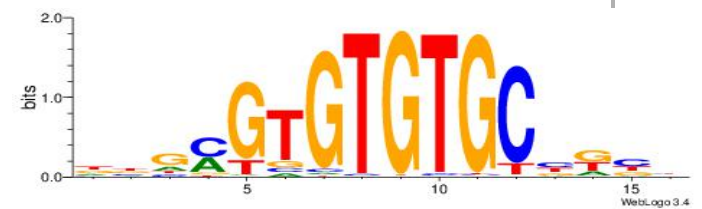
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



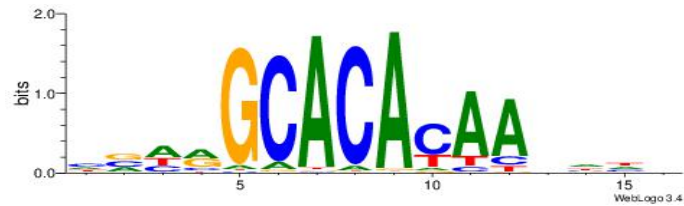
Motif ID:	<a href="#">UP00026</a>
Motif name:	Zscan4_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0209738

Alignment:

BHHHTTGTGTGCKHVD  
---TGTGTGTGTGTG-

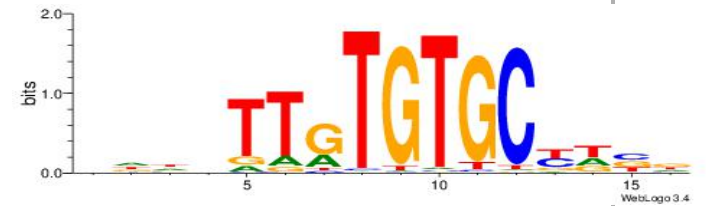
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



---

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: 8  
Number of overlap: 12  
Similarity score: 0.0260477

Alignment:

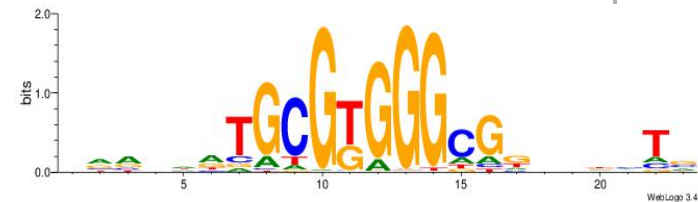
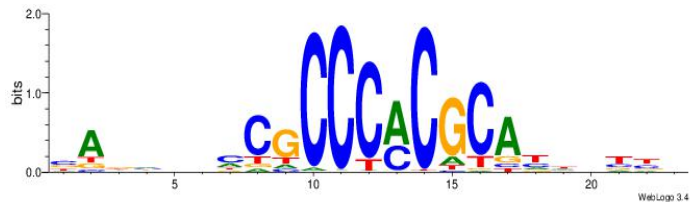
BADHBDHCGCCCMCGCAHHDBBV  
-----CACACACACACA-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

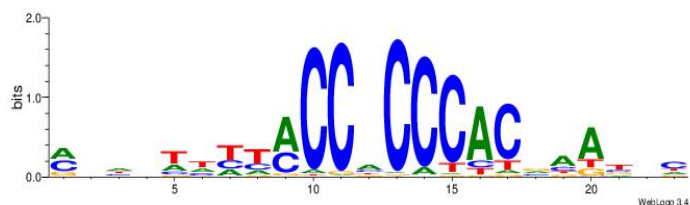
Consensus sequence: VVDHHTGCGYGGGCGDHSVHTB



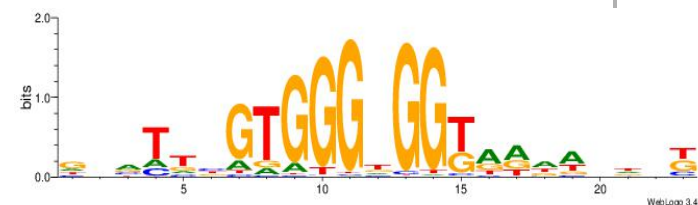
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.030264

Alignment:  
 MHHHWHYTMCCCHCCCACVAABVH  
 -----CACACACACACA-

Original motif  
 Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif  
 Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00000](#)



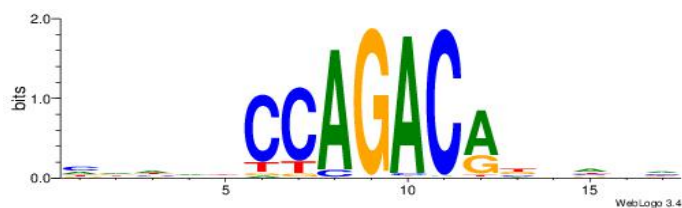
Motif name: Smad3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0319882

**Alignment:**

HVHBVTGTCTGGDDHDD  
 ---TGTGTGTGTGTG--

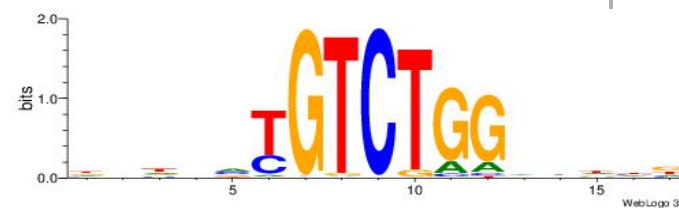
**Original motif**

Consensus sequence: HDHDDCCAGACABBHVH



**Reverse complement motif**

Consensus sequence: HVHBVTGTCTGGDDHDD




---

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: 12

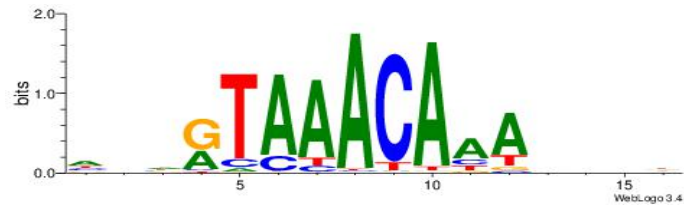
Similarity score: 0.0345675

Alignment:

HDHRTAAACAAAHDDD  
CACACACACACA----

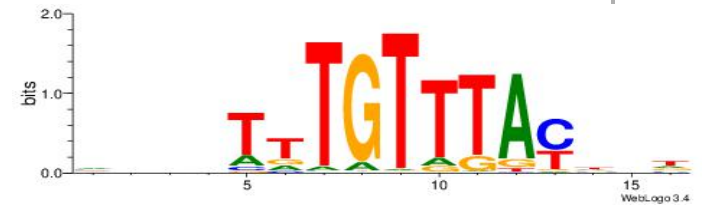
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



Motif ID: [UP00101](#)  
Motif name: Sox12\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.0352503

Alignment:

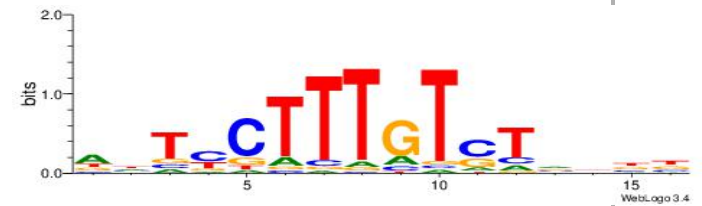
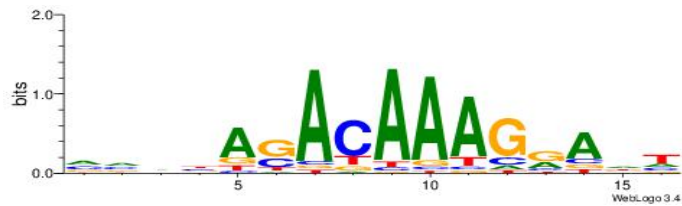
VVDBASACAAAGRADH  
-CACACACACACA---

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID: [UP00025](#)  
 Motif name: Foxk1\_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: 12  
 Similarity score: 0.0355373

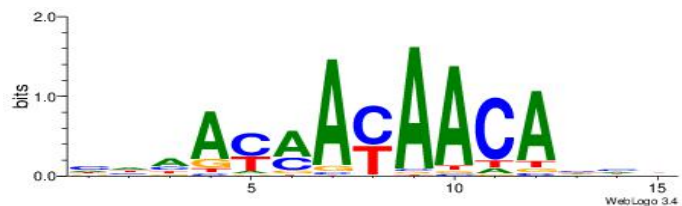
**Alignment:**

```

HDDTGTTKTTKTHHD
---TGTGTGTGTGTG
  
```

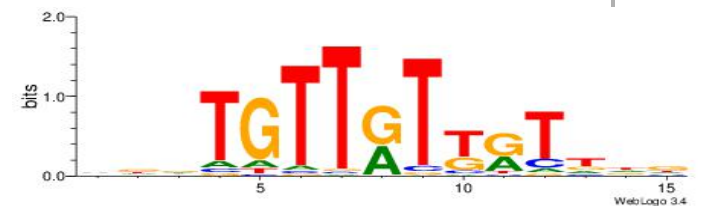
**Original motif**

Consensus sequence: HHHAYAAYAACAHHH



**Reverse complement motif**

Consensus sequence: HDDTGTTKTTKTHHD



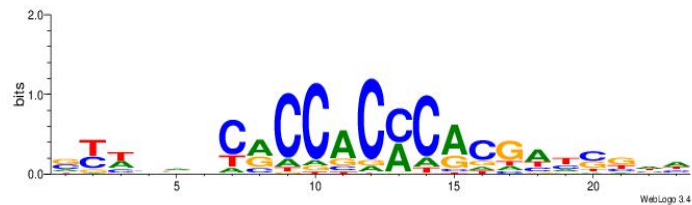
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 10  
 Number of overlap: 12  
 Similarity score: 0.0364327

**Alignment:**

VYWVVHCRCCACMCACGAHSBHH  
 -----CACACACACACA--

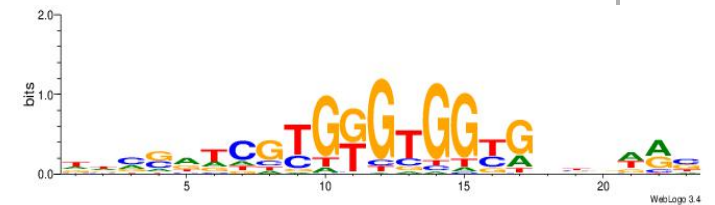
**Original motif**

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



**Reverse complement motif**

Consensus sequence: HHBSHTCGTGRGTGGKGDVWVM



Motif ID: [UP00227](#)  
 Motif name: Duxl  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5

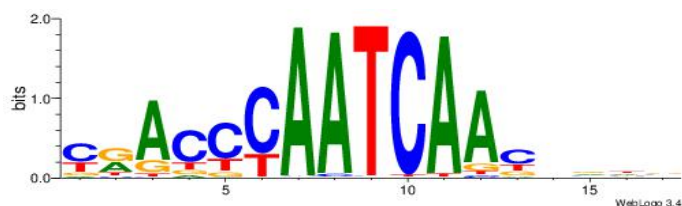
Number of overlap: 12  
Similarity score: 0.0367869

Alignment:

VHVVGTTGATTGGGTMK  
----TGTGTGTGTGTG-

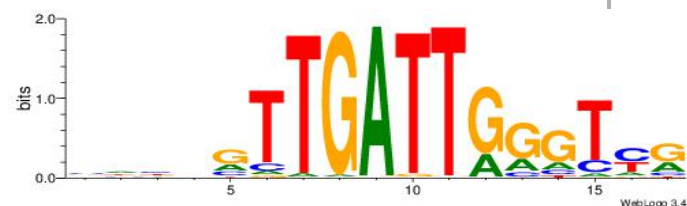
Original motif

Consensus sequence: YRACCCAATCAACVVHV



Reverse complement motif

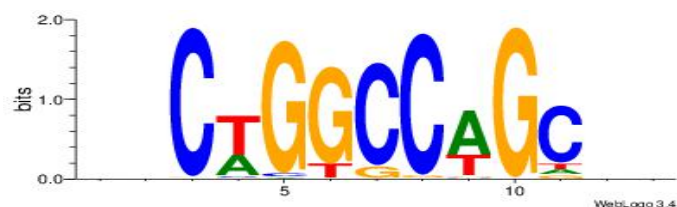
Consensus sequence: VHVVGTTGATTGGGTMK



**Dataset #: 4      Motif ID: 80      Motif name: ssCwGGCCwGCss**

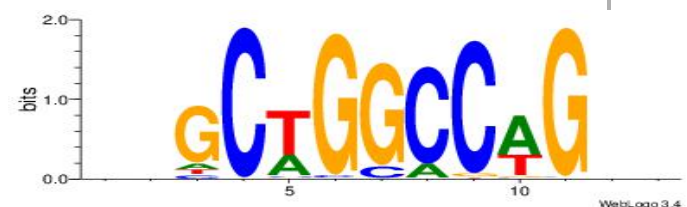
Original motif

Consensus sequence: BBCWGGCCAGCBB



Reverse complement motif

Consensus sequence: BBGCTGGCCWGBB



**Best Matches for Motif ID 80 (Highest to Lowest)**

Motif ID: [UP00047](#)  
Motif name: Zbtb7b\_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:	13
Similarity score:	0.0292371

**Alignment:**

```
BBDVHGGTGGTCBKDDB
---BBGCTGGCCWGBB-
```

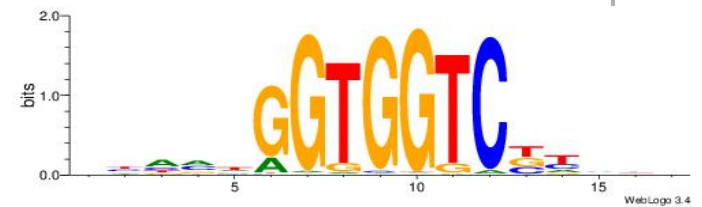
**Original motif**

Consensus sequence: BDDRVGACCACCHBDVB



**Reverse complement motif**

Consensus sequence: BBDVHGGTGGTCBKDDB



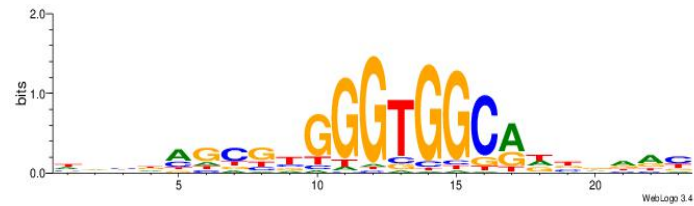
Motif ID:	<a href="#">UP00538</a>
Motif name:	Gli1_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	13
Similarity score:	0.0293146

**Alignment:**

BDDHVDKGCCACCCVCGCTDBVH  
--BBCWGGCCAGCBB-----

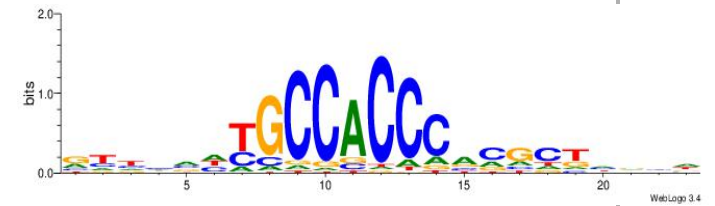
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



---

Motif ID:	<a href="#">UP00000</a>
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:	2
Number of overlap:	13
Similarity score:	0.0305671

**Alignment:**

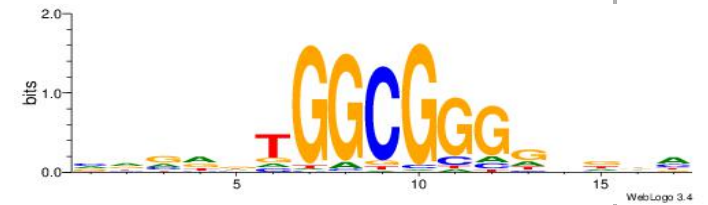
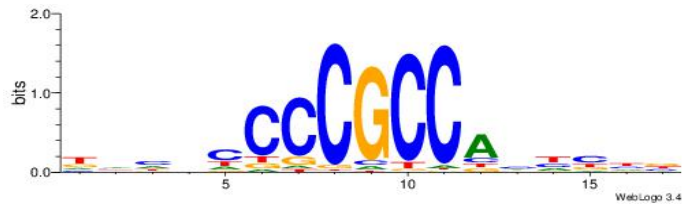
DHHBCCCCGCCAHHBHB  
---BBCWGGCCAGCBB-

**Original motif**

Consensus sequence: DHHBCCCCGCCAHHBHB

**Reverse complement motif**

Consensus sequence: BHBHDTGGCGGGBDHD

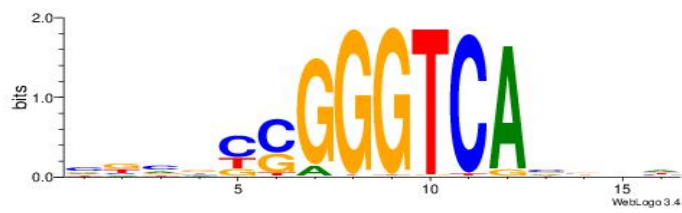


Motif ID: [UP00009](#)  
 Motif name: Nr2f2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0317659

Alignment:  
 VBVBBCSGGGTCAVBBH  
 --BBGCTGGCCWGBB-

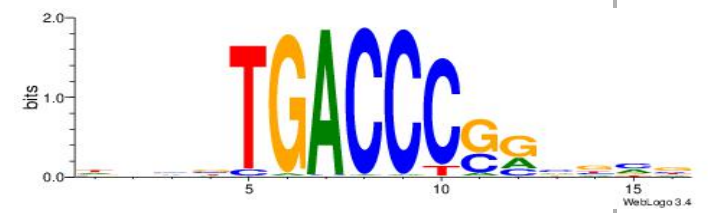
Original motif

Consensus sequence: VBVBBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00035](#)



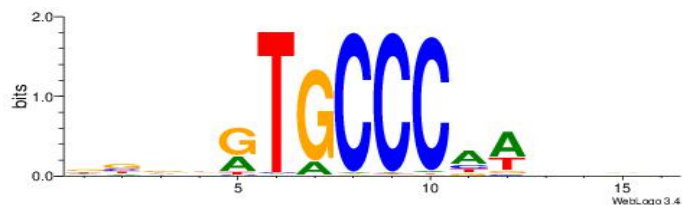
Motif name: Hic1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0331992

**Alignment:**

DBDDRGTGCCCAWDHDV  
 -BBGCTGGCCWGBB--

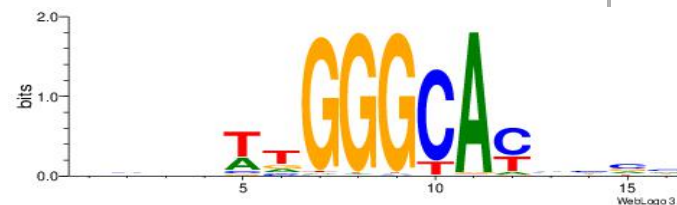
**Original motif**

Consensus sequence: DBDDRGTGCCCAWDHDV



**Reverse complement motif**

Consensus sequence: VHHDWTGGGCAMDHBH




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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: 3  
 Number of overlap: 13

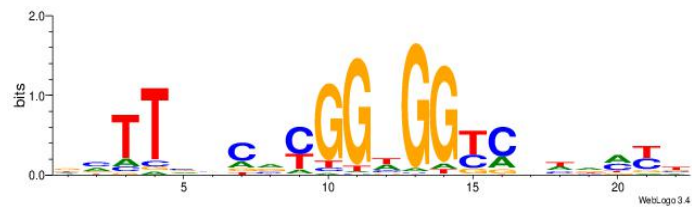
Similarity score: 0.0364202

Alignment:

DVTTVVCVYGGHGGYCHHDMYB  
-----BBGCTGGCCWGBB--

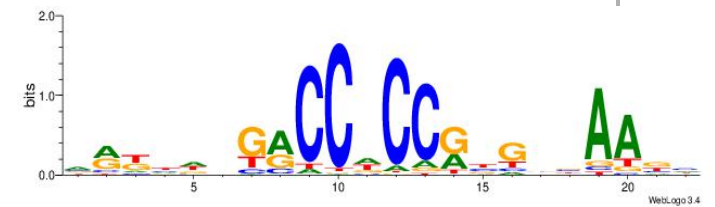
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



Motif ID: [UP00035](#)  
Motif name: Hic1\_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: 13  
Similarity score: 0.0366488

Alignment:

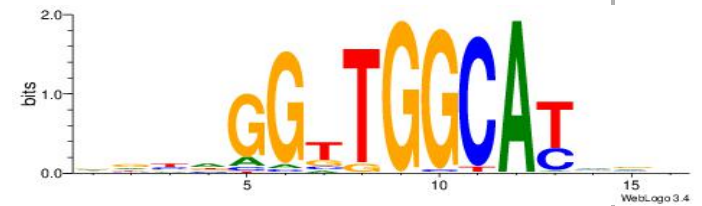
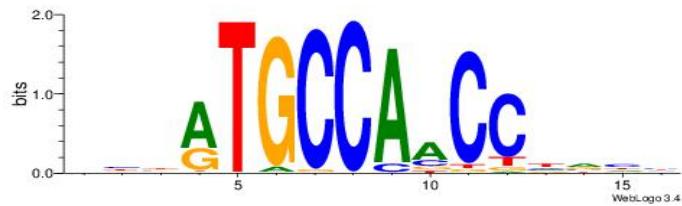
DDBHGGTTGGCATVBD  
---BBGCTGGCCWGBB

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



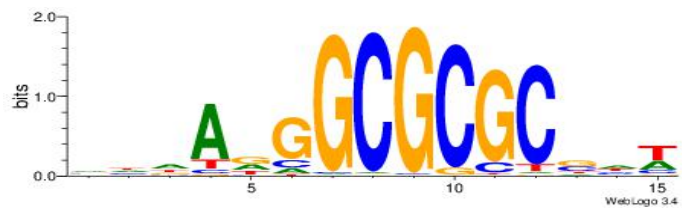
Motif ID: [UP00003](#)  
 Motif name: E2F3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0368356

**Alignment:**

VHDADGGCGCGCSHW  
 -BBCWGGCCAGCBB-

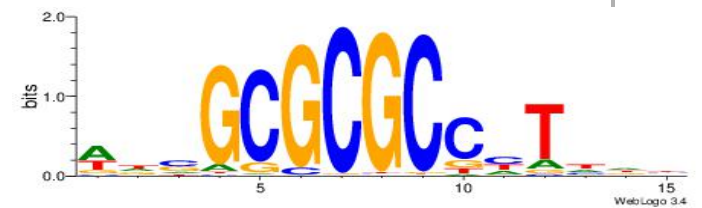
**Original motif**

Consensus sequence: VHDADGGCGCGCSHW



**Reverse complement motif**

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



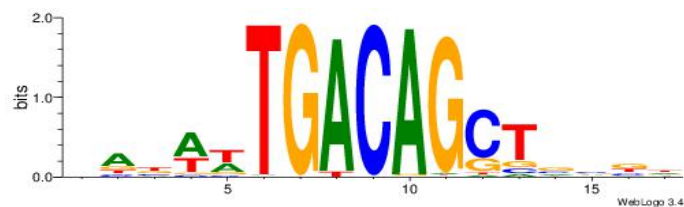
Motif ID: [UP00122](#)  
 Motif name: Tgif1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.0369074

**Alignment:**

DBVVAGCTGTCAWWVTH  
 ---BBGCTGGCCWGBB-

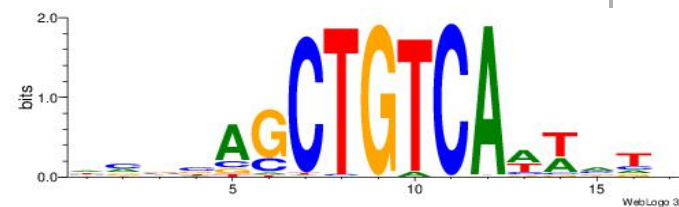
**Original motif**

Consensus sequence: DABWWTGACAGCTVVB



**Reverse complement motif**

Consensus sequence: DBVVAGCTGTCAWWVTH



Motif ID: [UP00193](#)  
 Motif name: RhoX11\_2205.1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2

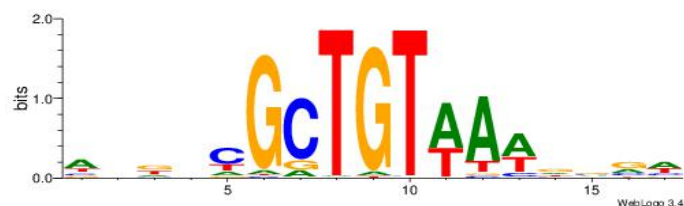
Number of overlap: 13  
Similarity score: 0.0374489

Alignment:

WVHWTWACAGCGHHVT  
-BBCWGGCCAGCBB---

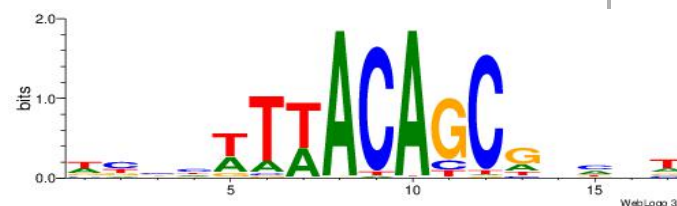
Original motif

Consensus sequence: AVDHCGCTGTAWDVVW



Reverse complement motif

Consensus sequence: WVHWTWACAGCGHHVT



**Dataset #: 4      Motif ID: 81      Motif name: wwTAAwAAww**

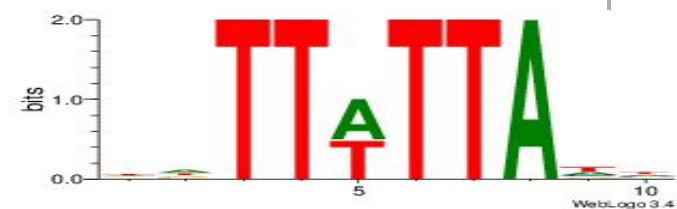
Original motif

Consensus sequence: DDTAAWAAHH



Reverse complement motif

Consensus sequence: HHTTWTTADD



**Best Matches for Motif ID 81 (Highest to Lowest)**

Motif ID: [UP00180](#)  
Motif name: Hoxd13  
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:	10
Similarity score:	0

Alignment:

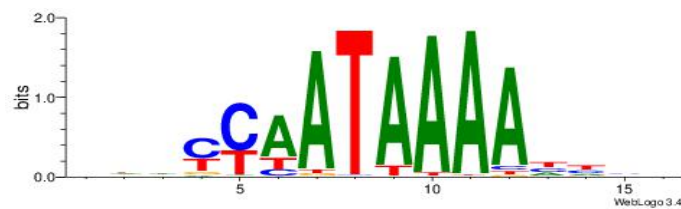
```

HDHYAATAAAAHHHH
-----DDTAAWAAHH-

```

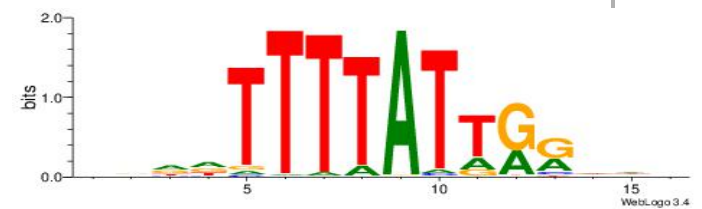
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



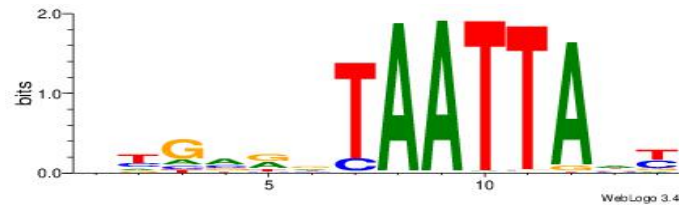
Motif ID:	<a href="#">UP00202</a>
Motif name:	Dlx1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.000299799

Alignment:

MDTAATTAHMBCHB  
DDTAAWAAHH-----

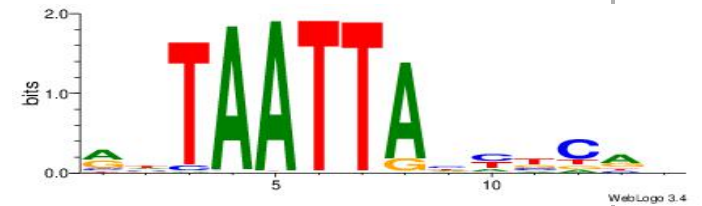
Original motif

Consensus sequence: BHGVRDTAATTADY



Reverse complement motif

Consensus sequence: MDTAATTAHMBCHB



---

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: 6  
Number of overlap: 10  
Similarity score: 0.000776597

Alignment:

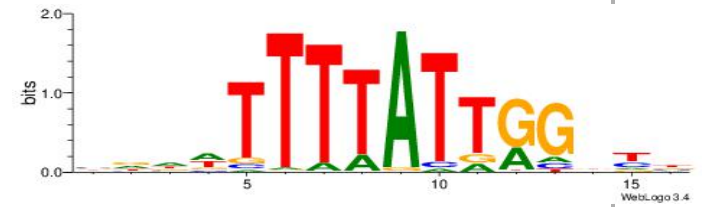
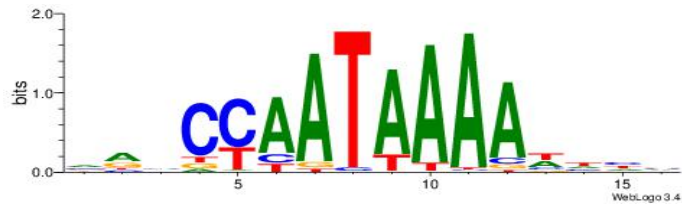
VDHWTTTTATTGGDKB  
-HHTTWTTADD-----

Original motif

Consensus sequence: VRHCCAATAAAWHHV

Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB

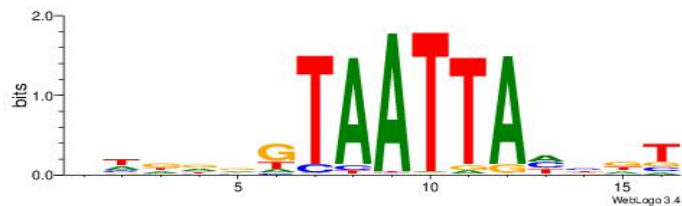


Motif ID: [UP00242](#)  
 Motif name: Hoxc8  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.00309982

Alignment:  
 AHDHTAATTACHHHHV  
 --DDTAAWAAHH----

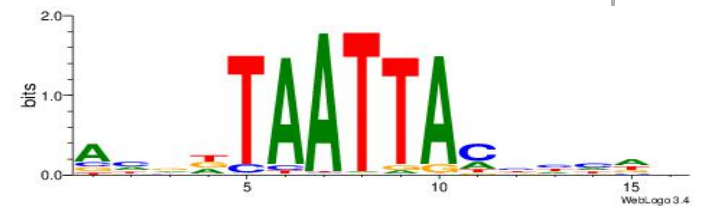
Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



Motif ID: [UP00110](#)



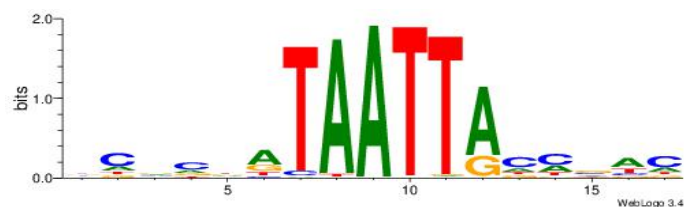
Motif name: Dlx4  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.00364582

**Alignment:**

BCVVDATAATTACMVHC  
 ----DDTAAWAAHH---

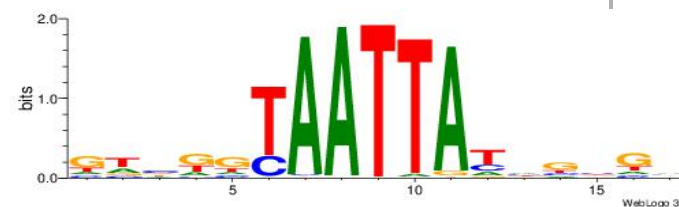
**Original motif**

Consensus sequence: BCVVDATAATTACMVHC



**Reverse complement motif**

Consensus sequence: GHVRGTAATTATDVVGV




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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: 9  
 Number of overlap: 10

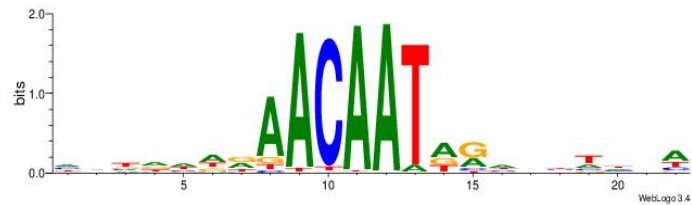
Similarity score: 0.0040604

Alignment:

```
WBHHHHHMDATTGTTDHDVHH  
-----HHTTWTADD-----
```

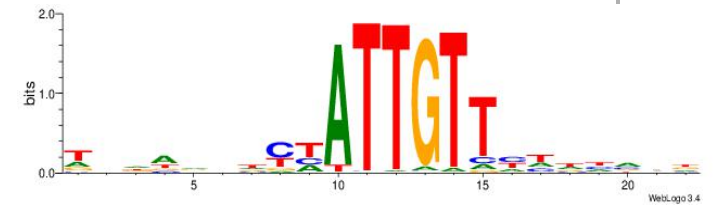
Original motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH



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: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.0042597

Alignment:

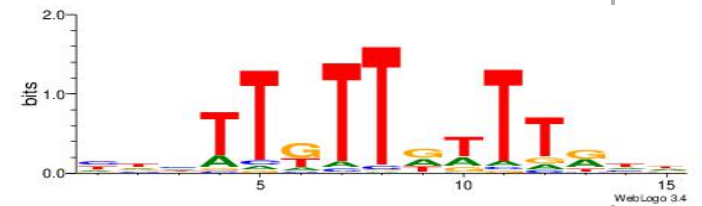
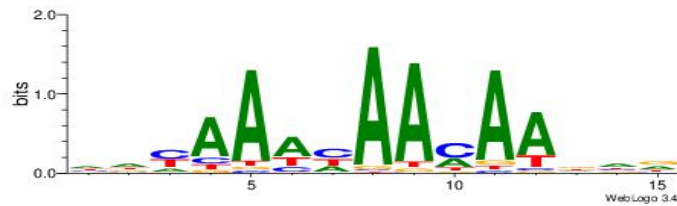
```
HHHTTRTTDTTTKDH  
-HHTTWTADD-----
```

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH

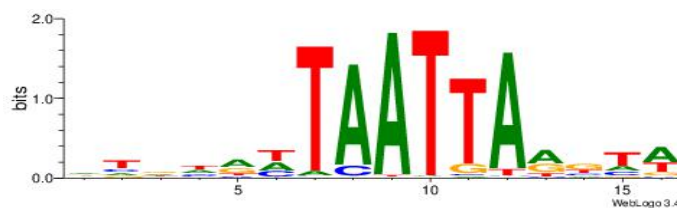


Motif ID: [UP00254](#)  
 Motif name: Pou2f1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.00447653

Alignment:  
 WABKTAATTAKHHHD  
 --HHTTWTADD----

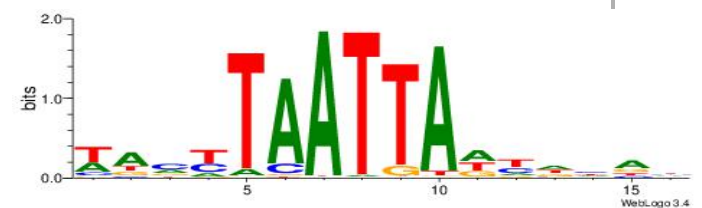
Original motif

Consensus sequence: DHDHRHTAATTARBTW



Reverse complement motif

Consensus sequence: WABKTAATTAKHHHD



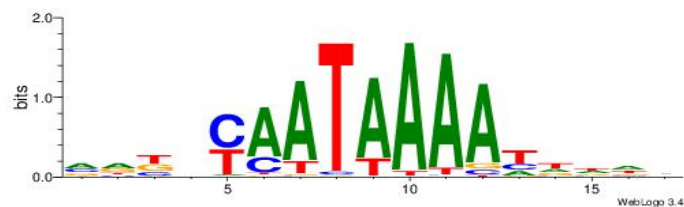
Motif ID: [UP00121](#)  
 Motif name: Hoxd10  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.00448

Alignment:

HDDDATTTTATTKVRDB  
 --HHTTWTTADD-----

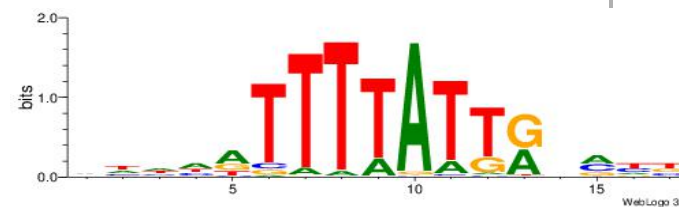
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

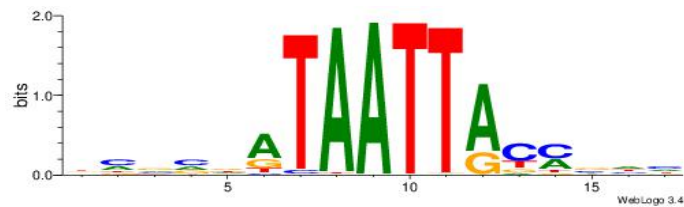


Motif ID: [UP00154](#)  
 Motif name: Dlx3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4

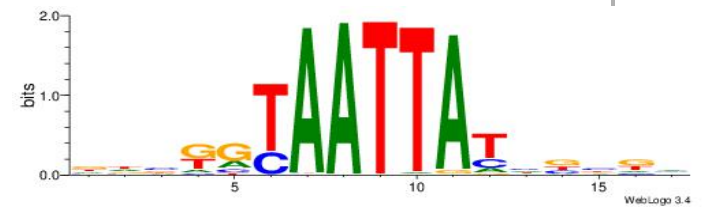
Number of overlap: 10  
Similarity score: 0.00573233

Alignment:  
BHVVDATAATTACMVHH  
----DDTAAWAAHH----

Original motif  
Consensus sequence: BHVVDATAATTACMVHH



Reverse complement motif  
Consensus sequence: DHVRGTAATTATHVVDY

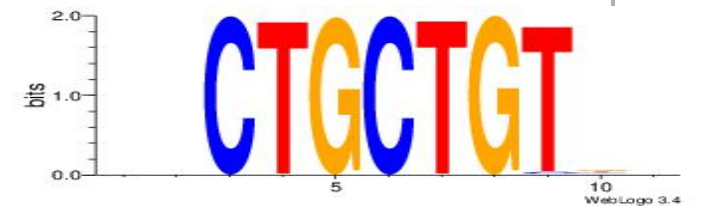


**Dataset #: 4      Motif ID: 82      Motif name: rmACAGCAGsr**

Original motif  
Consensus sequence: VVACAGCAGVD



Reverse complement motif  
Consensus sequence: DVCTGCTGTVB



**Best Matches for Motif ID 82 (Highest to Lowest)**

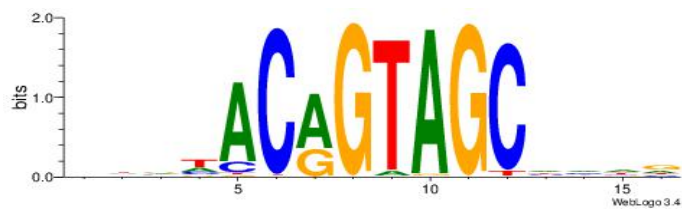
Motif ID: [UP00052](#)  
Motif name: Osr2\_primary  
Species: Mus musculus

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

Alignment:  
HHVHACRGTAGCHHHD  
--VVACAGCAGVD---

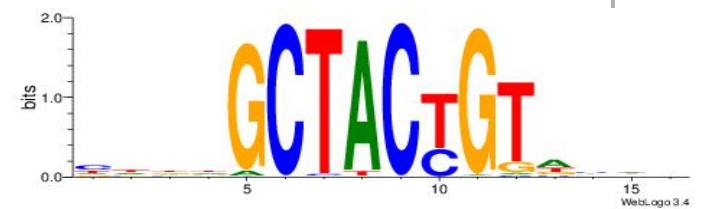
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



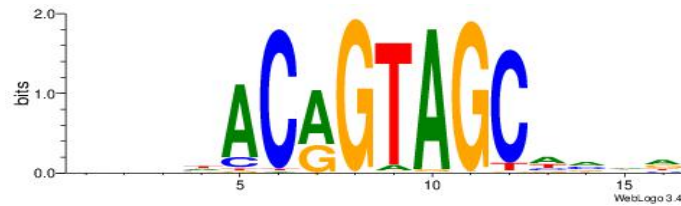
Motif ID:	<a href="#">UP00027</a>
Motif name:	Osr1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.00105409

Alignment:

DHBHGCTACKGTHDHH  
---DVCTGCTGTVB---

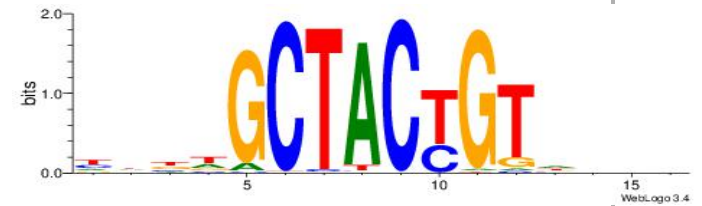
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



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Motif ID: [UP00102](#)  
Motif name: Zic1\_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: 11  
Similarity score: 0.00653268

Alignment:

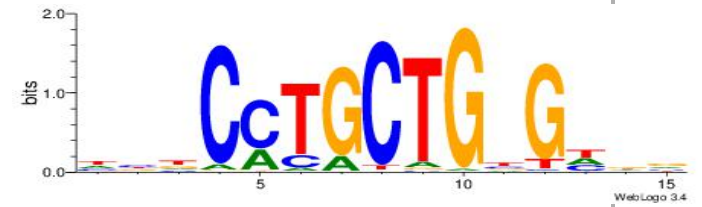
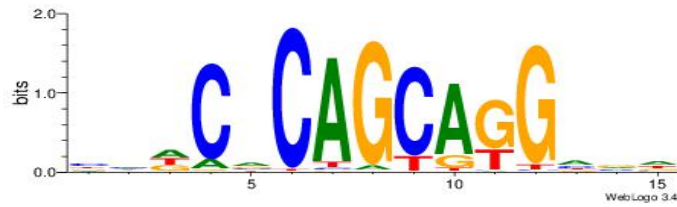
DVHCCTGCTGBGDDB  
--DVCTGCTGTVB--

Original motif

Consensus sequence: BHDCVCAGCAGGHVD

Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDB

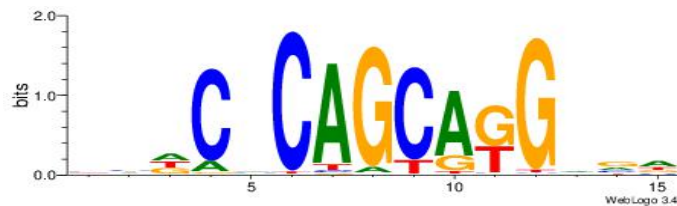


Motif ID: [UP00057](#)  
 Motif name: Zic2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00968463

Alignment:  
 DVBCYTGCTGBGDDD  
 --DVCTGCTGTVB--

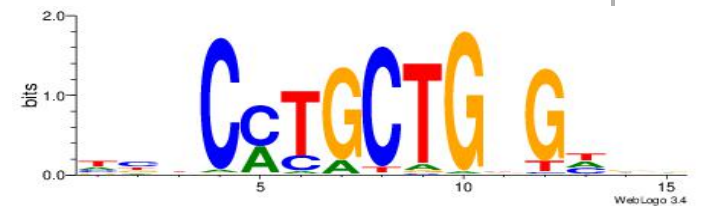
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00006](#)



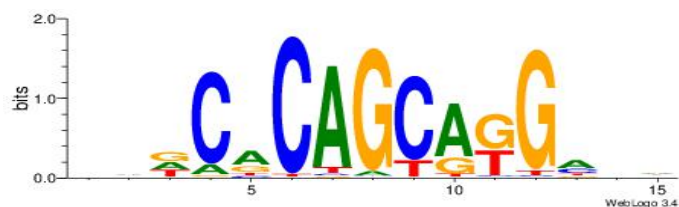
Motif name: Zic3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0102111

**Alignment:**

DDDCACAGCAKGHVD  
 --VVACAGCAGVD--

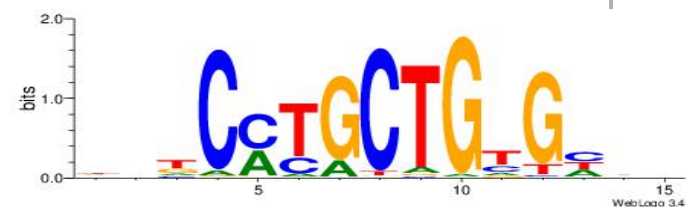
**Original motif**

Consensus sequence: DDDCACAGCAKGHVD



**Reverse complement motif**

Consensus sequence: DVHCYTGCTGTGHDH




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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: 5  
 Number of overlap: 11

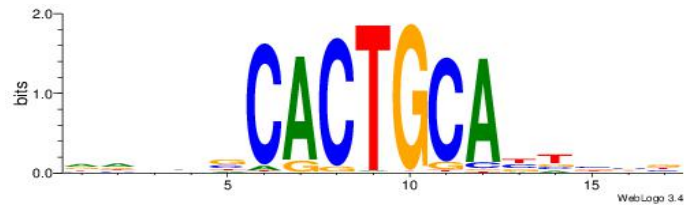
Similarity score: 0.0115274

Alignment:

BBBAVTGCAGTGBBVDD  
--DVCTGCTGTVB----

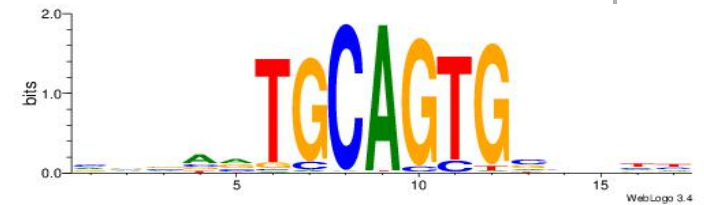
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00099](#)  
Motif name: Ascl2\_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: 0.0115983

Alignment:

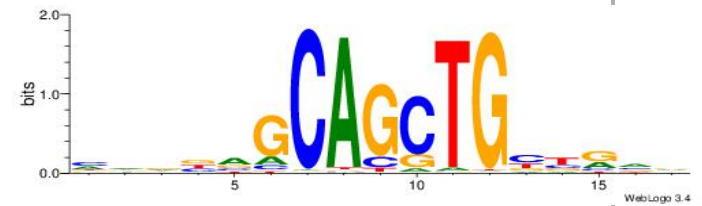
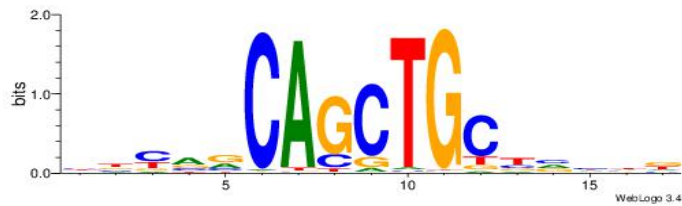
HHDVVGCAGCTGVBKVB  
---VVACAGCAGVD---

Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD

Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



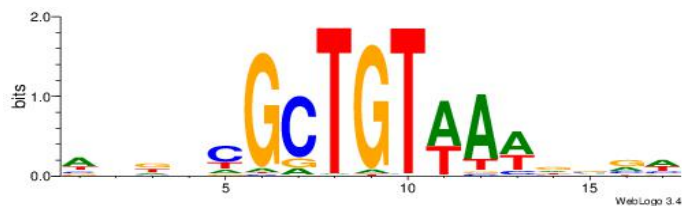
Motif ID: [UP00193](#)  
 Motif name: Rhox11\_2205.1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0150629

**Alignment:**

AVDHCGCTGTWAWDVVW  
 -DVCTGCTGTVB-----

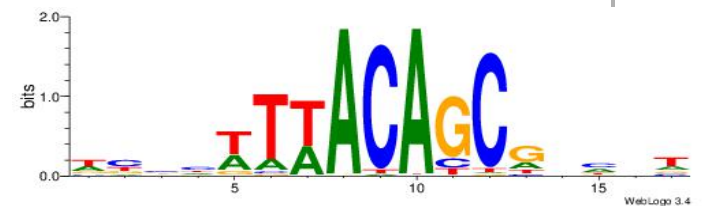
**Original motif**

Consensus sequence: AVDHCGCTGTWAWDVVW



**Reverse complement motif**

Consensus sequence: WVVHWTWACAGCGHHVT



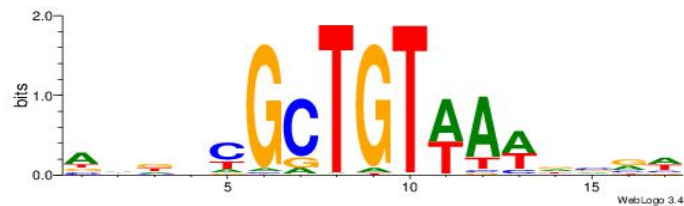
Motif ID: [UP00193](#)  
Motif name: RhoX11\_1765.2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0154078

Alignment:

AVDVCGCTGTWAWDVVW  
-DVCTGCTGTVB-----

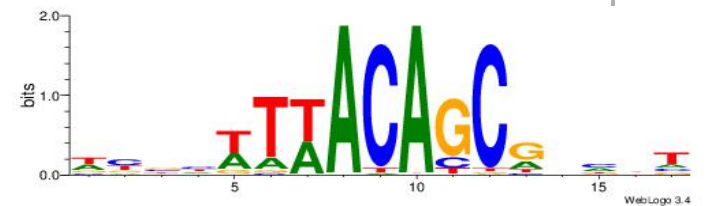
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

Consensus sequence: WVVHWTWACAGCGBHBT



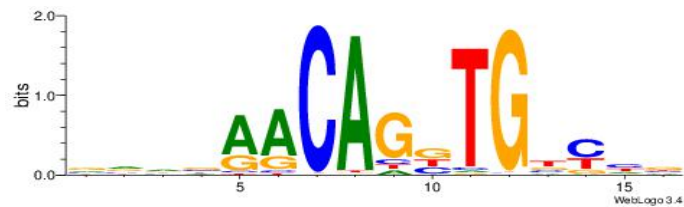
---

Motif ID: [UP00036](#)  
Motif name: Myf6\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3

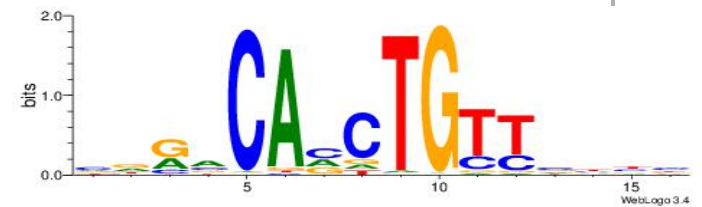
Number of overlap: 11  
Similarity score: 0.0170472

Alignment:  
BDKVCABCTGTTBDBV  
--DVCTGCTGTVB---

Original motif  
Consensus sequence: VVDBAACAGBTGBYHB



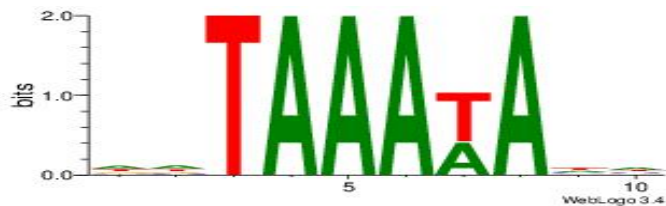
Reverse complement motif  
Consensus sequence: BDKVCABCTGTTBDBV



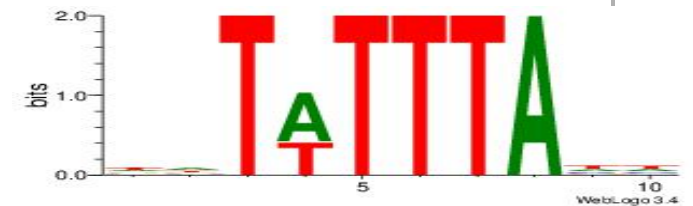
---

**Dataset #: 4      Motif ID: 83      Motif name: wwTAAAwAww**

Original motif  
Consensus sequence: DD TAAAWAHH



Reverse complement motif  
Consensus sequence: HHTWTTTADD



### Best Matches for Motif ID 83 (Highest to Lowest)

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:	10
Similarity score:	0

Alignment:

```
HHWAWGTAAAYAAVDB
----DDTAAAWAHH----
```

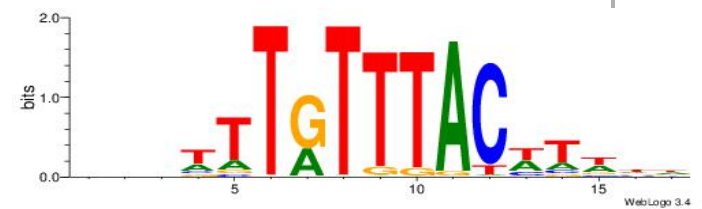
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



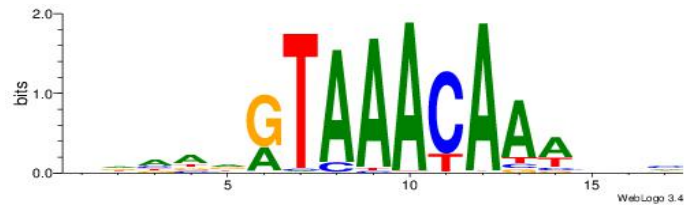
Motif ID:	<a href="#">UP00039</a>
Motif name:	Foxj3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.00101771

Alignment:

HDHADGTAAACAAAVVH  
----DDTAAAWAHH----

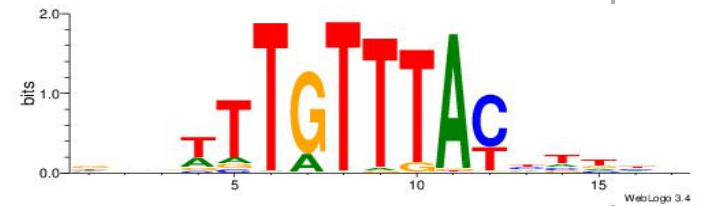
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



---

Motif ID: [UP00061](#)  
Motif name: Foxl1\_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: 10  
Similarity score: 0.00165181

Alignment:

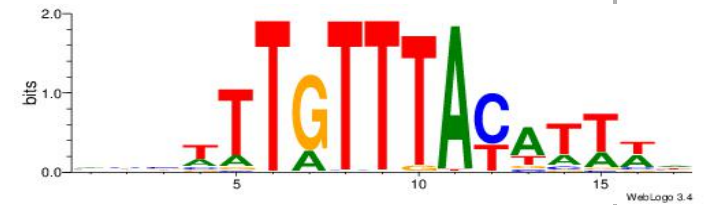
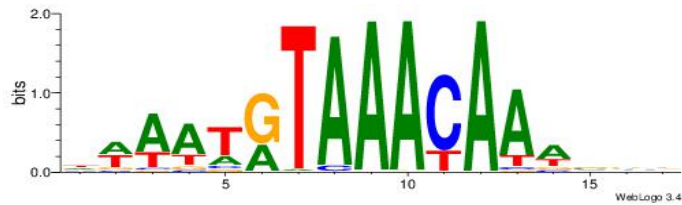
DWAATRCAAACAAWVVB  
----DDTAAAWAHH----

Original motif

Consensus sequence: DWAATRCAAACAAWVVB

Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD

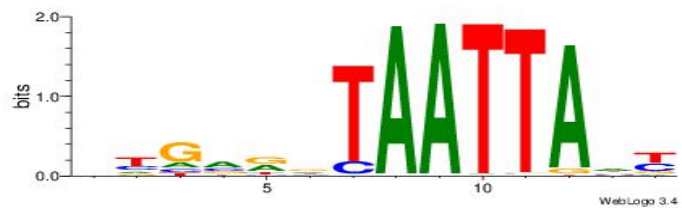


Motif ID: [UP00202](#)  
 Motif name: Dlx1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.00530809

Alignment:  
 BHGVRDTAATTADY  
 DDTAAAWAHH----

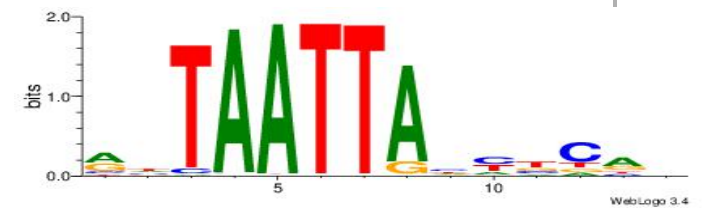
Original motif

Consensus sequence: BHGVRDTAATTADY



Reverse complement motif

Consensus sequence: MDTAATTAHMBCHB



Motif ID: [UP00041](#)  
 Motif name: Foxj1\_primary



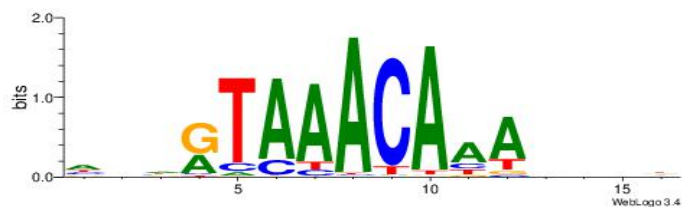
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.00622214

Alignment:

HDHRTAAACAAAHDDD  
 --DDTAAAWAHH----

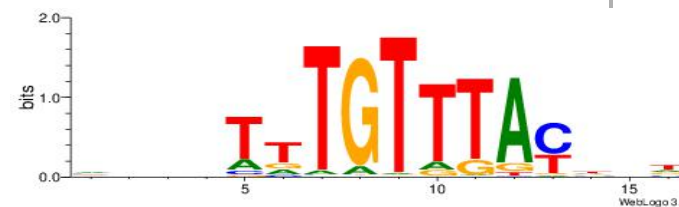
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH




---

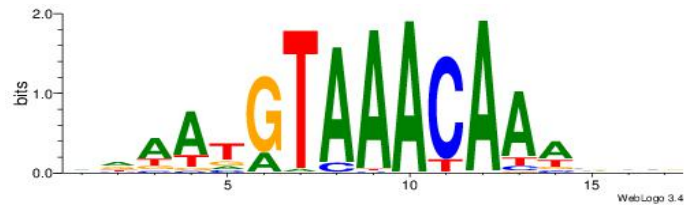
Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.00814891

Alignment:

DDAATGTAAACAAAVVB  
----DDTAAAWAHH----

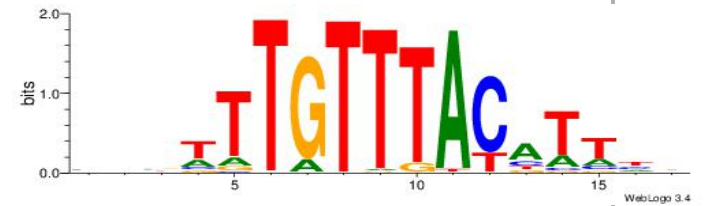
Original motif

Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



---

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: 6  
Number of overlap: 10  
Similarity score: 0.00863942

Alignment:

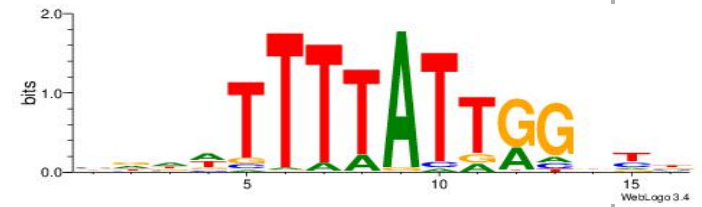
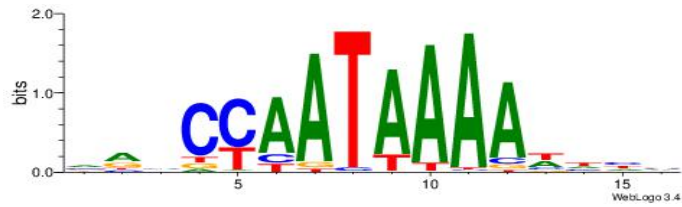
VDHWTTTTATTGGDKB  
-HHTWTTTADD-----

Original motif

Consensus sequence: VRHCCAATAAAWHHV

Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB

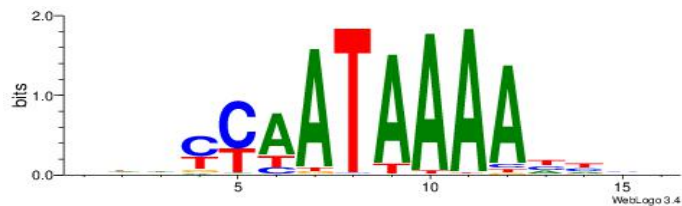


Motif ID: [UP00180](#)  
 Motif name: Hoxd13  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.00877086

Alignment:  
 HDHHTTTTATTKKHDD  
 -HHTWTTTADD-----

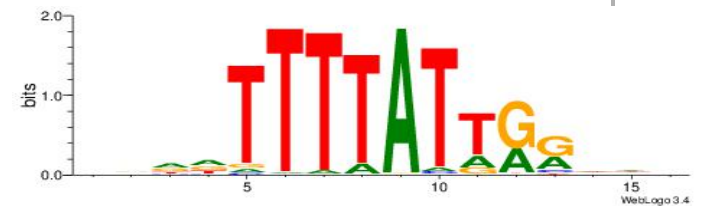
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00242](#)

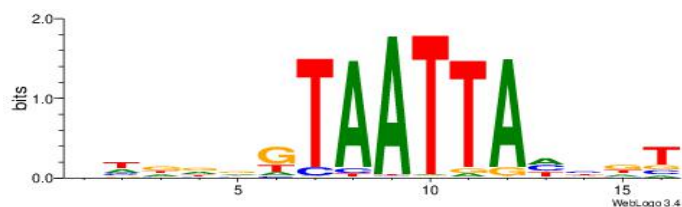
Motif name: Hoxc8  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 10  
 Similarity score: 0.00906413

**Alignment:**

BHDDDGTAATTAHHDT  
 ----DDTAAAWAHH--

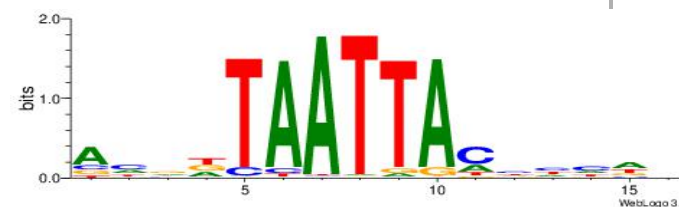
**Original motif**

Consensus sequence: BHDDDGTAATTAHHDT



**Reverse complement motif**

Consensus sequence: AHDHTAATTACHHHHV




---

Motif ID: [UP00110](#)  
 Motif name: Dlx4  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10

Similarity score:

0.0092814

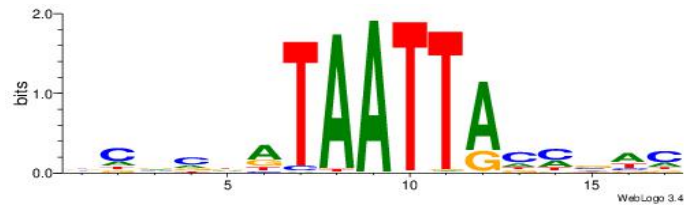
Alignment:

BCVVDATAATTACMVHC

----DDTAAAWAHH----

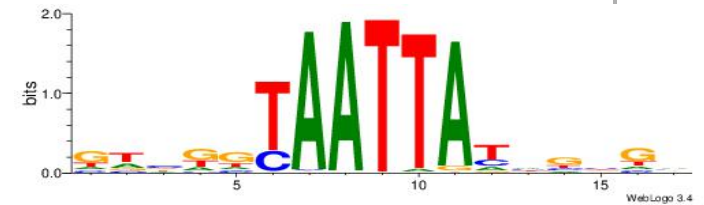
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVGV



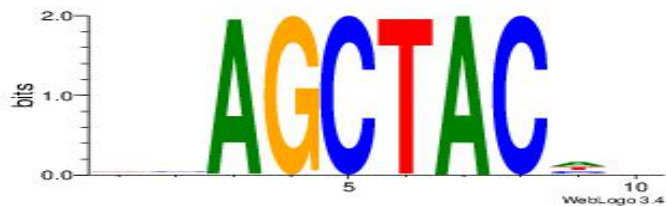
**Dataset #: 4**

**Motif ID: 84**

**Motif name: wsAGCTACwy**

Original motif

Consensus sequence: DVAGCTACHB



Reverse complement motif

Consensus sequence: VHGTAGCTVD



### Best Matches for Motif ID 84 (Highest to Lowest)

Motif ID:

[UP00052](#)

Motif name:

Osr2\_primary

Species:

Mus musculus

Matching format of first motif:

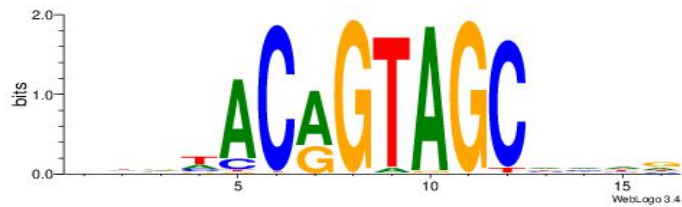
Original Motif

Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0

Alignment:  
 HHHHGCTACKGTHVHH  
 -DVAGCTACHB-----

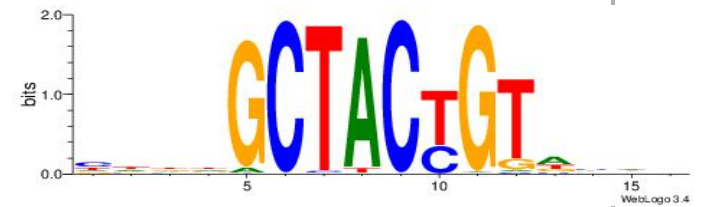
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



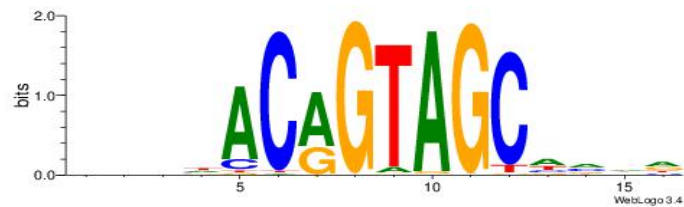
Motif ID: [UP00027](#)  
 Motif name: Osr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 10  
 Similarity score: 0.00253277

Alignment:

DHBHGCTACKGTHDHH  
-DVAGCTACHB-----

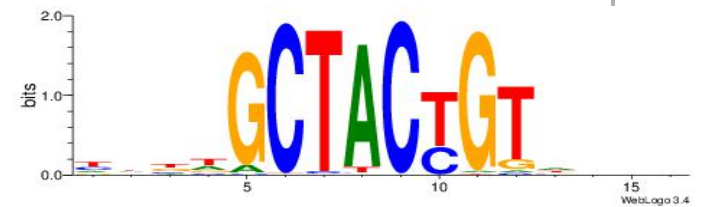
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00098](#)  
Motif name: Rfx3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 9  
Number of overlap: 10  
Similarity score: 0.00721593

Alignment:

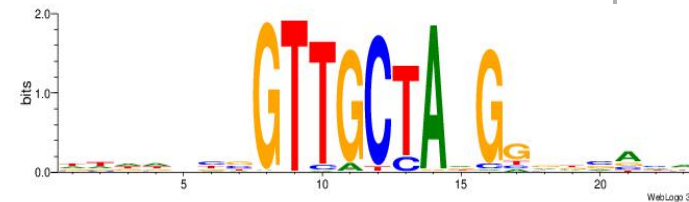
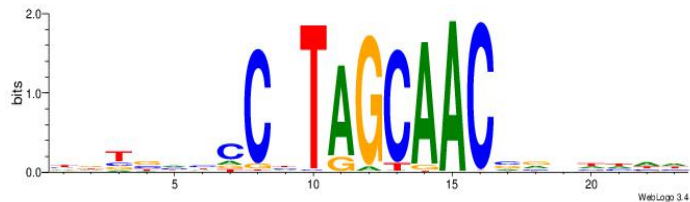
HHHHDVVGTTGCTAHGGDHBAAH  
-----VHGTAGCTVD-----

Original motif

Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH

Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH

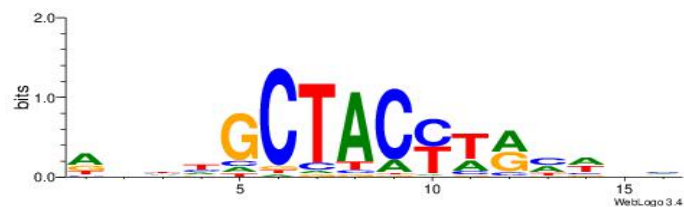


Motif ID: [UP00052](#)  
 Motif name: Osr2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.00762354

Alignment:  
 VDWRKAKGTAGCHHDT  
 -----VHG TAGCTVD-

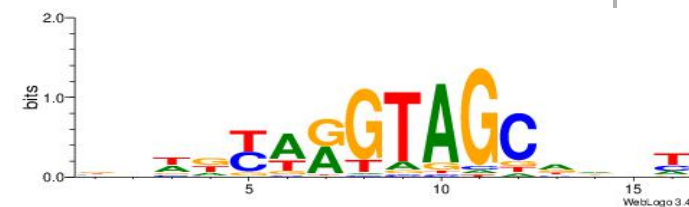
Original motif

Consensus sequence: AHHHGCTACYTRMWHV



Reverse complement motif

Consensus sequence: VDWRKAKGTAGCHHDT



Motif ID: [UP00056](#)

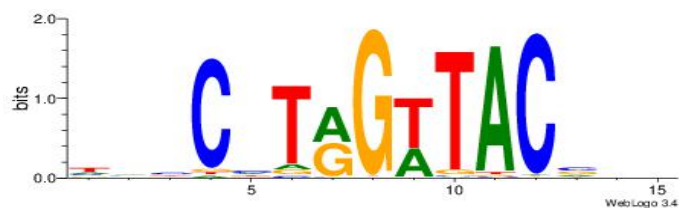


Motif name: Rfx4\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 10  
Similarity score: 0.00942475

Alignment:  
HVVGTAWCKADGBHH  
-VHGTAGCTVD-----

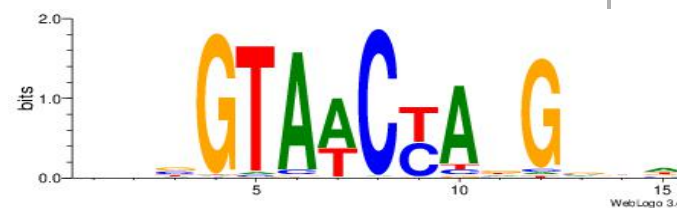
Original motif

Consensus sequence: HHBCHTRGWTACVVH



Reverse complement motif

Consensus sequence: HVVGTAWCKADGBHH



Motif ID: [UP00027](#)  
Motif name: Osr1\_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: 10

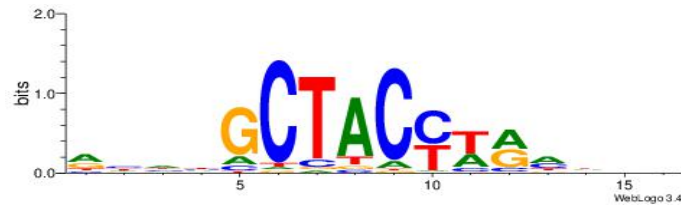
Similarity score: 0.00948101

Alignment:

VHDKHWKGTAGCHHDK  
-----VHGTAGCTVD-

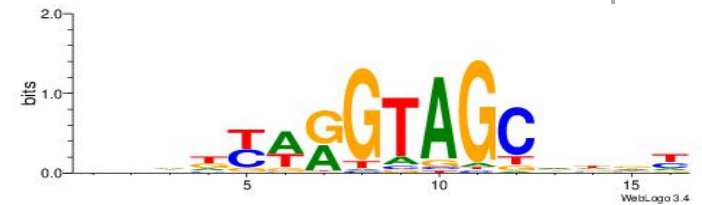
Original motif

Consensus sequence: RHHHGCTACYWRHDHV



Reverse complement motif

Consensus sequence: VHDHKWKGTAGCHHDK



Motif ID: [UP00076](#)  
Motif name: Rfxdc2\_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: 10  
Similarity score: 0.0111701

Alignment:

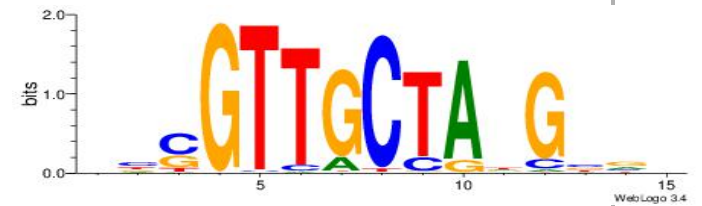
DVSGTTGCTAHGVBB  
-VHGTAGCTVD-----

Original motif

Consensus sequence: BBVCHTAGCAACSVD

Reverse complement motif

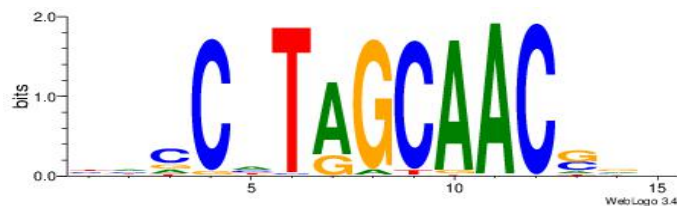
Consensus sequence: DVSGTTGCTAHGVBB



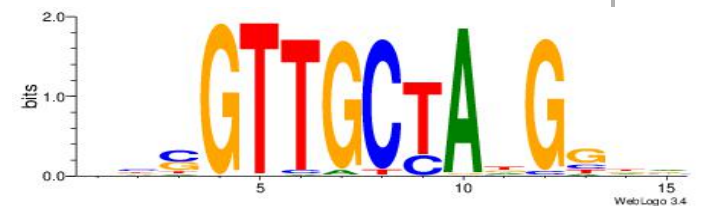
Motif ID: [UP00056](#)  
 Motif name: Rfx4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.0118129

Alignment:  
 DVSGTTGCTAHGGHV  
 -VHGTAGCTVD----

Original motif  
 Consensus sequence: BHCHTAGCAACSVD



Reverse complement motif  
 Consensus sequence: DVSGTTGCTAHGGHV



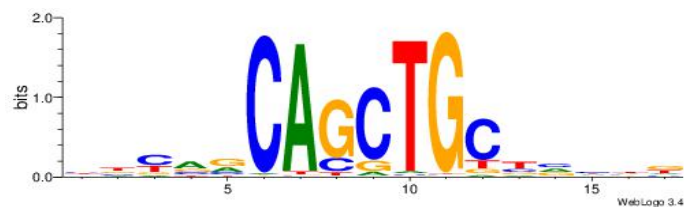
Motif ID: [UP00099](#)  
Motif name: Ascl2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0163031

Alignment:

BBYVVCAGCTGCBVHHD  
-----DVAGCTACHB-----

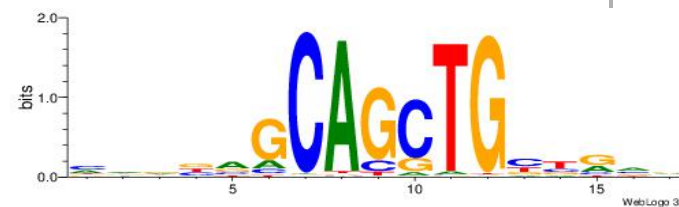
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



---

Motif ID: [UP00076](#)  
Motif name: Rfxdc2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4

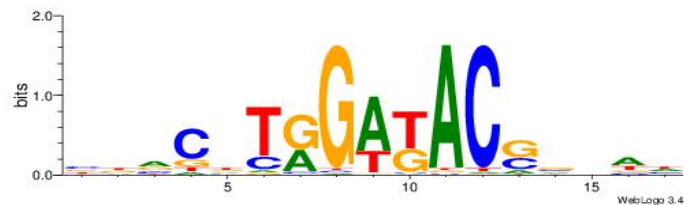
Number of overlap: 10  
Similarity score: 0.0259013

Alignment:

BBVCDTRGAKACSVDDH  
----DVAGCTACHB----

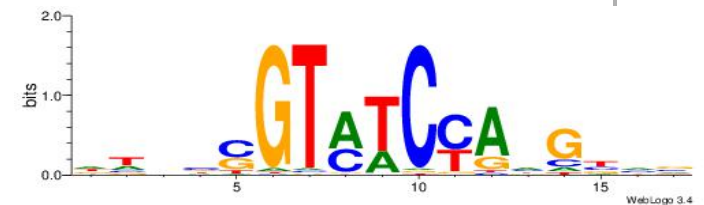
Original motif

Consensus sequence: BBVCDTRGAKACSVDDH



Reverse complement motif

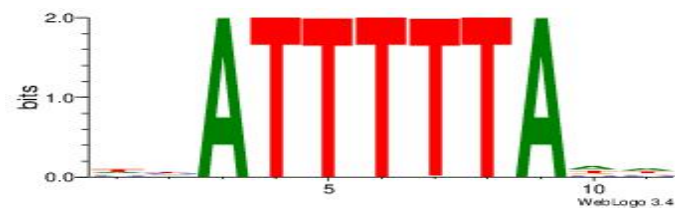
Consensus sequence: HDDVSGTRTCMADGBVB



**Dataset #: 4      Motif ID: 85      Motif name: wtATTTTAAww**

Original motif

Consensus sequence: DHATTTTADD



Reverse complement motif

Consensus sequence: DDTAAAATHD



**Best Matches for Motif ID 85 (Highest to Lowest)**

Motif ID: [UP00091](#)  
Motif name: Sox5\_primary  
Species: Mus musculus

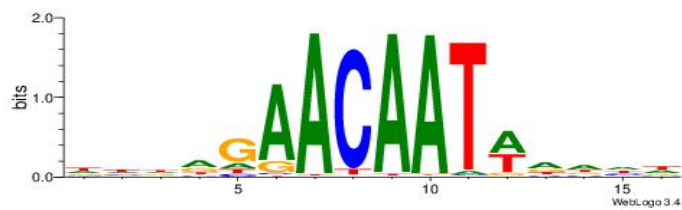
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0

Alignment:

```
DHDDWATTGTTCCDDHD
---DHATTTTTTADD--
```

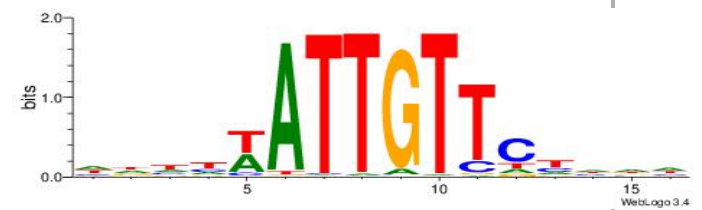
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCCDDHD



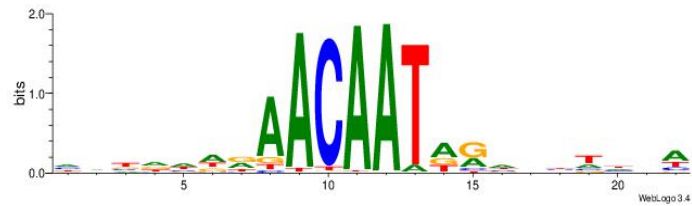
Motif ID:	<a href="#">UP00034</a>
Motif name:	Sox7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.00014559

Alignment:

WBHHHHHMDATTGTTTHDHDVHH  
-----DHATTTTADD-----

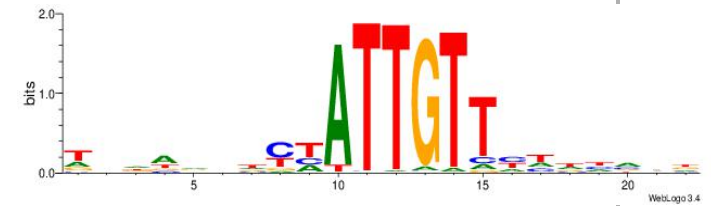
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTTHDHDVHH



---

Motif ID:	<a href="#">UP00180</a>
Motif name:	Hoxd13
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:	0.00108087

Alignment:

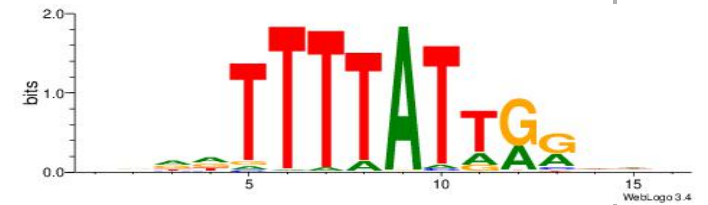
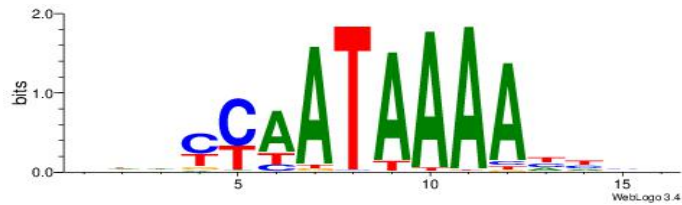
HDHHTTTTATTKKHDD  
-----DDTAAAAATHD

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

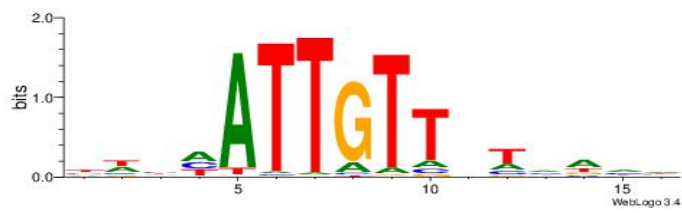


Motif ID: [UP00064](#)  
 Motif name: Sox18\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00183146

Alignment:  
 HHDHABAACAATHBWV  
 ---DDTAAAAATHD---

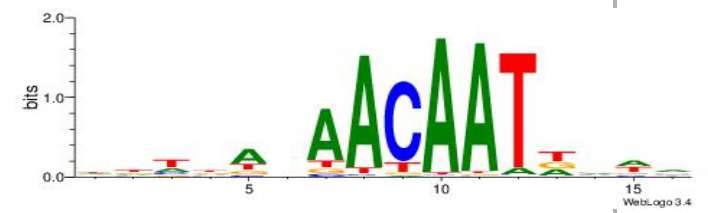
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



Motif ID: [UP00051](#)



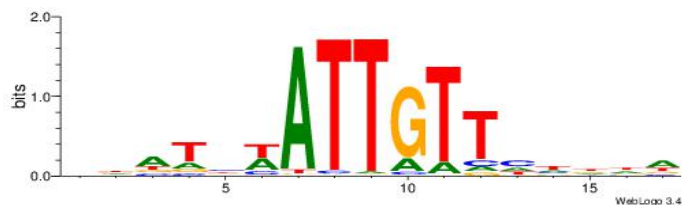
Motif name: Sox8\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.00234987

Alignment:

DDDHDAACAATWBATDD  
--DDTAAAAATHD----

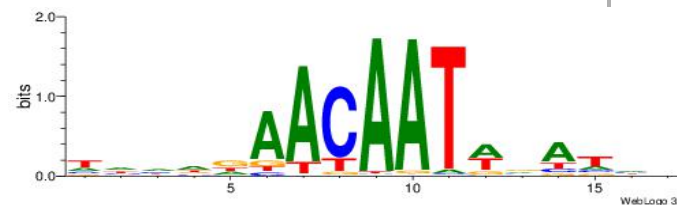
Original motif

Consensus sequence: DDATBWATTGTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



---

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: 2  
Number of overlap: 11

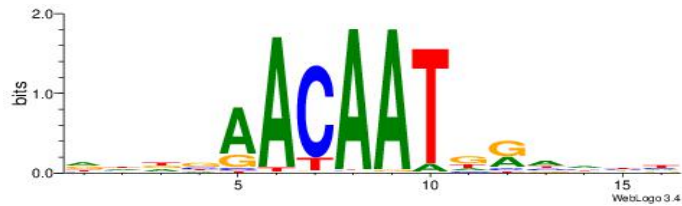
Similarity score: 0.00263261

Alignment:

HHHHMHATTGTTBDHD  
----DHATTTTADD-

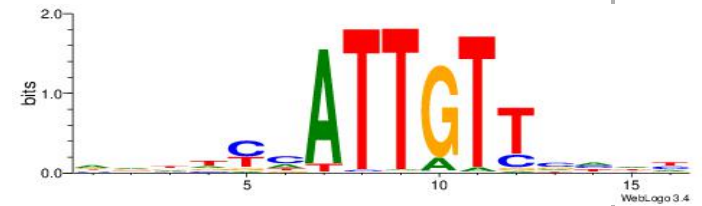
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



Motif ID: [UP00096](#)  
Motif name: Sox13\_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: 0.00324502

Alignment:

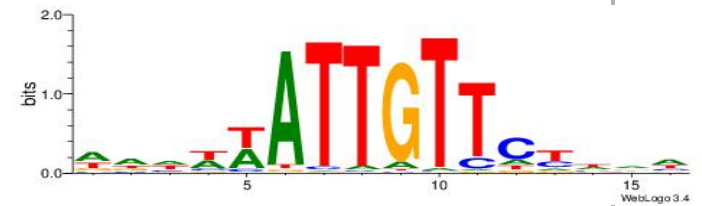
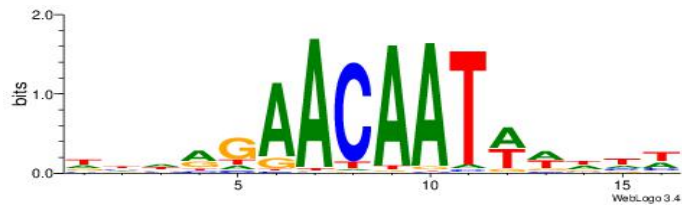
WHDWWATTGTTCKDHD  
---DHATTTTADD--

Original motif

Consensus sequence: DHDRGAACAATWWDHW

Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



Motif ID: [UP00101](#)  
 Motif name: Sox12\_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: 0.00331279

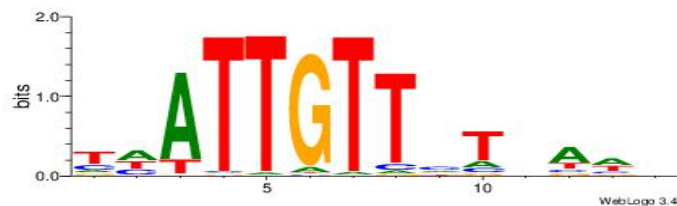
**Alignment:**

```

THATTGTTVTHAWH
DHATTTTADD---
  
```

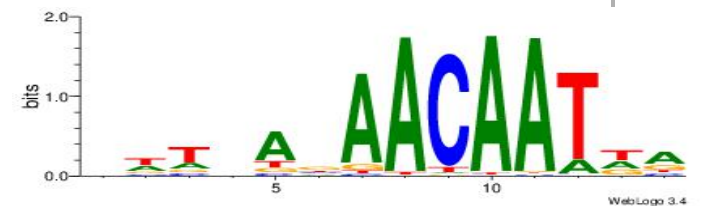
**Original motif**

Consensus sequence: THATTGTTVTHAWH



**Reverse complement motif**

Consensus sequence: DWTHAVAACAATHA



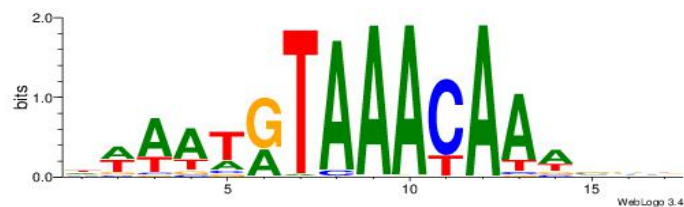
Motif ID: [UP00061](#)  
Motif name: Foxl1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0034964

Alignment:

```
VVWTTGTTTAMATTWD  
--DHATTTTADD----
```

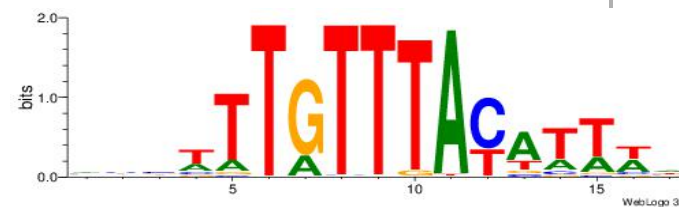
Original motif

Consensus sequence: DWAATRCAAACAAWVVB



Reverse complement motif

Consensus sequence: VVWTTGTTTAMATTWD



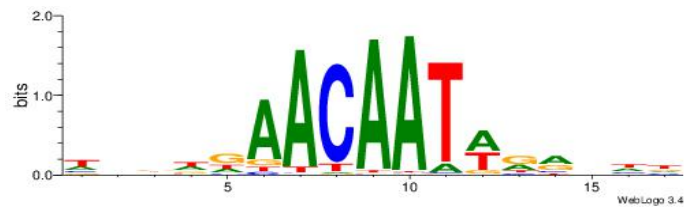
---

Motif ID: [UP00075](#)  
Motif name: Sox15\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3

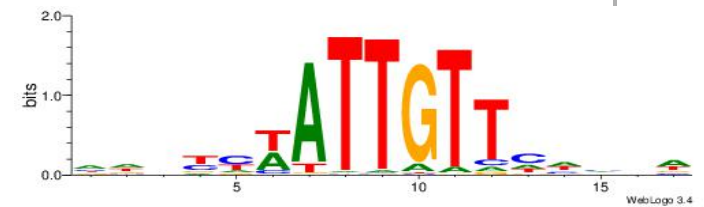
Number of overlap: 11  
Similarity score: 0.00406738

Alignment:  
HDDDDAACAATWRRBHD  
--DDTAAAAATHD----

Original motif  
Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif  
Consensus sequence: DHVKMWATTGTTHDHDH



**Dataset #: 4      Motif ID: 86      Motif name: aaCAAAAACaa**

Original motif  
Consensus sequence: HHCAAAAACAH



Reverse complement motif  
Consensus sequence: HTGTTTTTGHH



### Best Matches for Motif ID 86 (Highest to Lowest)

Motif ID: [UP00025](#)  
Motif name: Foxk1\_secondary  
Species: Mus musculus

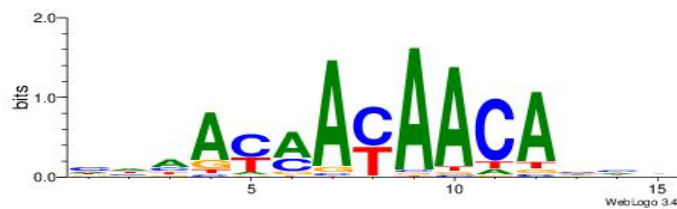
Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0

Alignment:

HDDTGTTKTTKTHHD  
 --HTGTTTTTGHH--

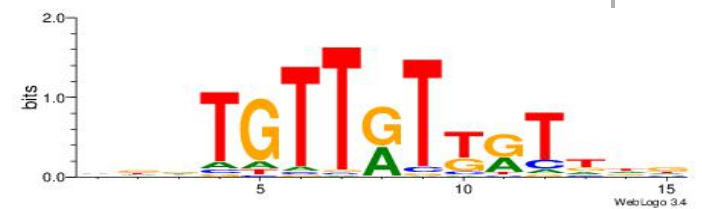
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



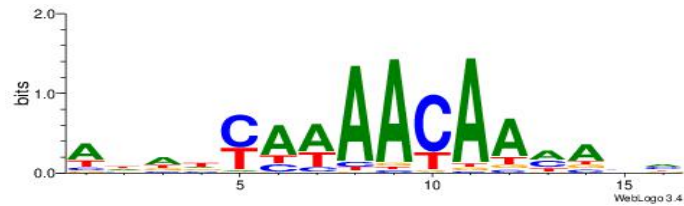
Motif ID: [UP00061](#)  
 Motif name: Foxl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0172856

Alignment:

```
HDTYTTGTTWTKDDDT  
----HTGTTTTTGHH-
```

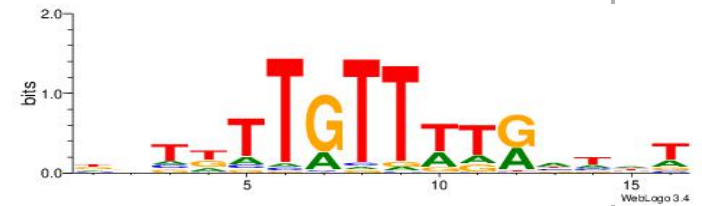
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



---

Motif ID:	<a href="#">UP00040</a>
Motif name:	Irf5_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0178701

Alignment:

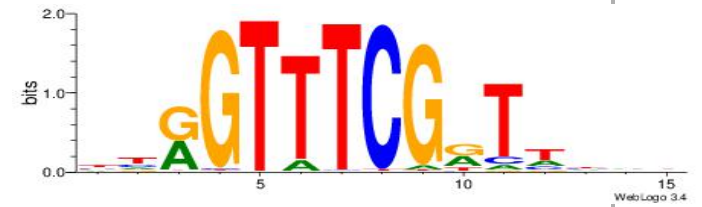
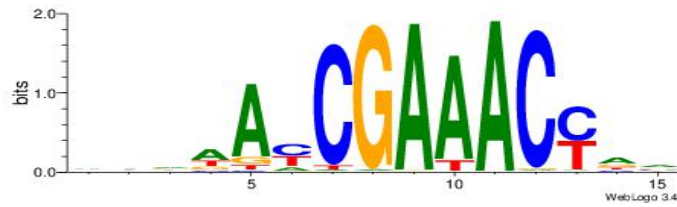
```
BDKGTTTCGKTWDDD  
HTGTTTTTGHH----
```

Original motif

Consensus sequence: DDDWAYCGAAACYDV

Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD

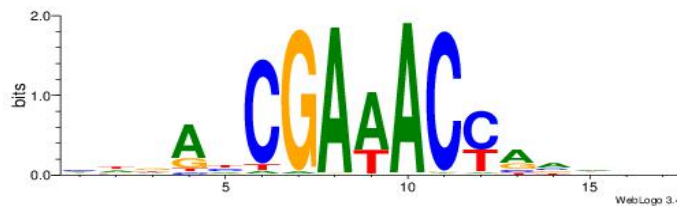


Motif ID: [UP00011](#)  
 Motif name: Irf6\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.018453

Alignment:  
 HDDAHCGAAACYAVDDD  
 ---HHCAAAAACAH---

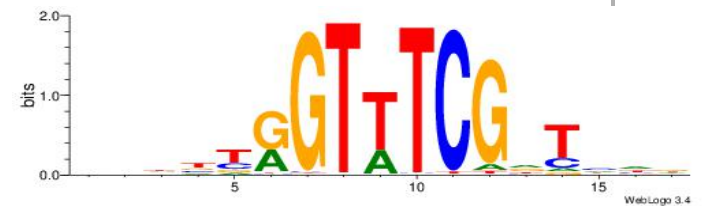
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Motif ID: [UP00039](#)



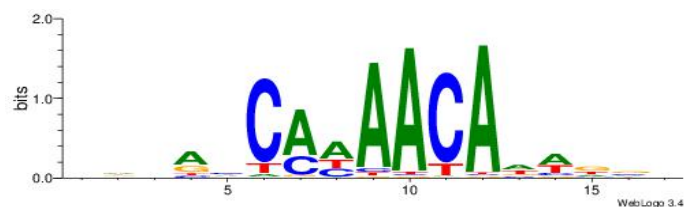
Motif name: Foxj3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0186097

**Alignment:**

DVHWDTGTTWTGDTBDH  
 ----HTGTTTTTGH--

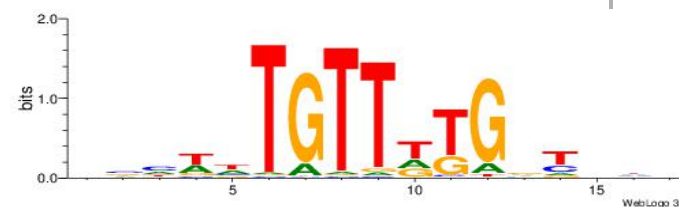
**Original motif**

Consensus sequence: HDBAHCAWAACADWDVD



**Reverse complement motif**

Consensus sequence: DVHWDTGTTWTGDTBDH




---

Motif ID: [UP00077](#)  
 Motif name: Srf\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11

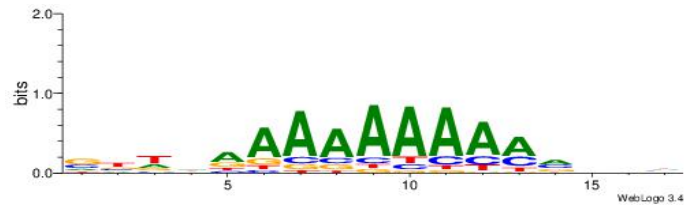
Similarity score: 0.0191319

Alignment:

VBDDAAAAAAAAAMVBHH  
---HHCAAAAACAH---

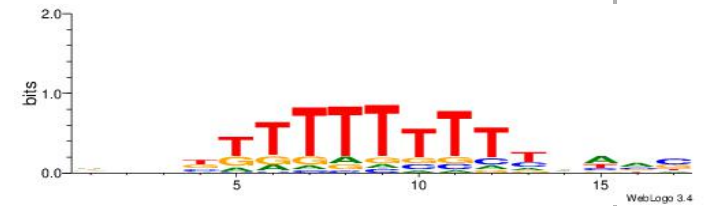
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



Motif ID: [UP00018](#)  
Motif name: Irf4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.0201092

Alignment:

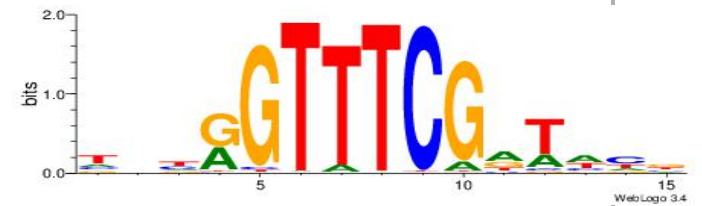
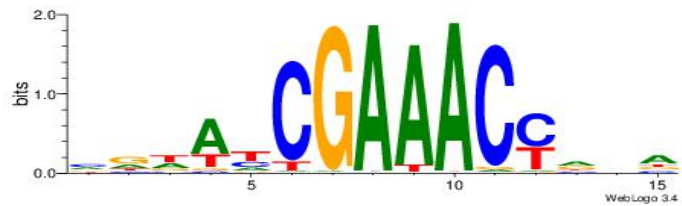
VDDAYCGAAACYDVA  
---HHCAAAAACAH-

Original motif

Consensus sequence: VDDAYCGAAACYDVA

Reverse complement motif

Consensus sequence: TBDKGTTCGMTDHW



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: 6  
 Number of overlap: 11  
 Similarity score: 0.020345

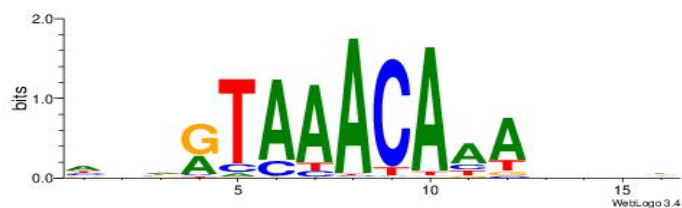
**Alignment:**

```

HDHRTAAACAAAHDDD
HHCAAAAACAH-----
  
```

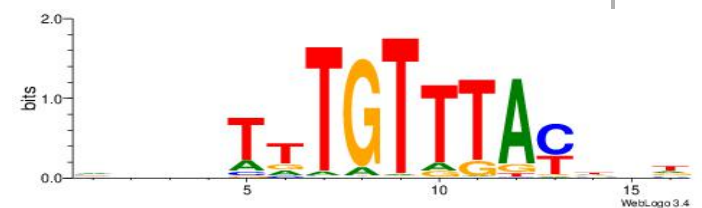
**Original motif**

Consensus sequence: HDHRTAAACAAAHDDD



**Reverse complement motif**

Consensus sequence: DDDHTTTGTTTAMHDDH



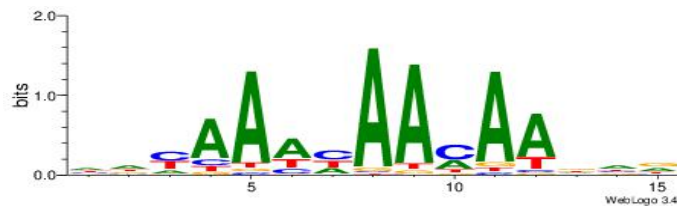
Motif ID: [UP00037](#)  
Motif name: Zfp105\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 11  
Similarity score: 0.0205157

Alignment:

```
HDYAAHAAMAADHD  
----HHCAAAAACAH
```

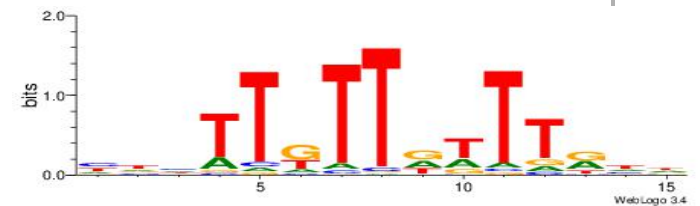
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTRTTDTTTKDH



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: 5

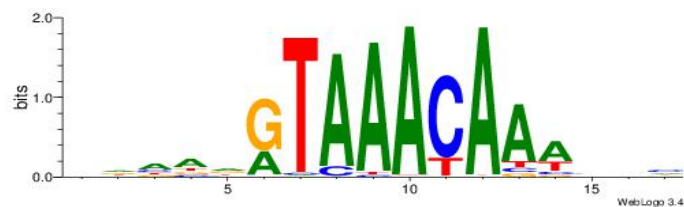
Number of overlap: 11  
Similarity score: 0.021082

Alignment:

HDHADGTAAACAAAVVH  
--HHCAAAAACAH----

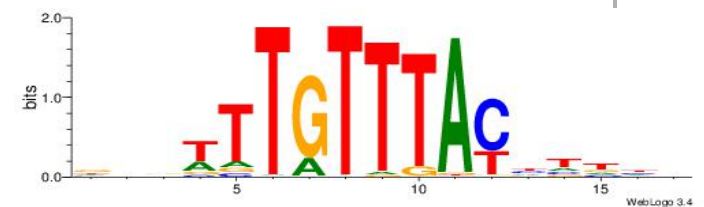
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

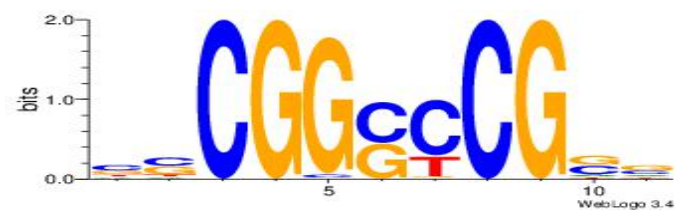
Consensus sequence: DVVTTTGTTTACDTHDH



**Dataset #: 4      Motif ID: 87      Motif name: ssCGGsYCGss**

Original motif

Consensus sequence: BSCGGSCCGSV



Reverse complement motif

Consensus sequence: VSCGGSCCGSB



**Best Matches for Motif ID 87 (Highest to Lowest)**

Motif ID: [UP00009](#)  
Motif name: Nr2f2\_secondary  
Species: Mus musculus

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0041916

Alignment:

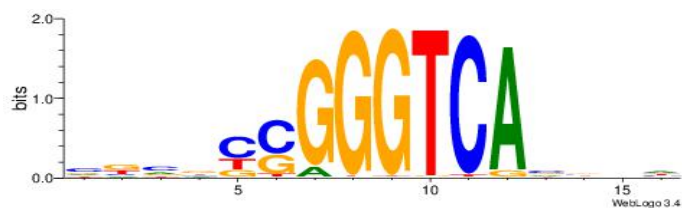
```

VBVBCSGGGTCAVBBH
---BSCGGSCCGSV--

```

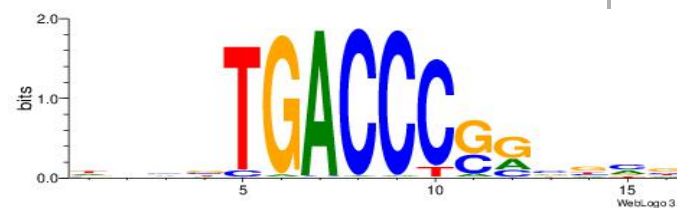
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



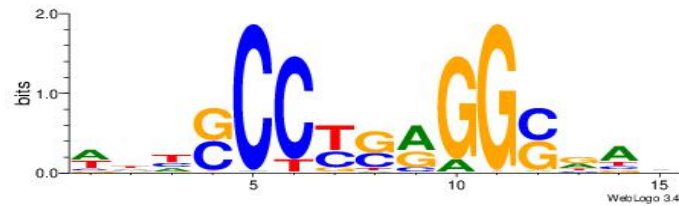
Motif ID:	<a href="#">UP00087</a>
Motif name:	Tcfap2c_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0167626

Alignment:

DTHSCCKSMGGSHHW  
--VSCGGSCCGSB--

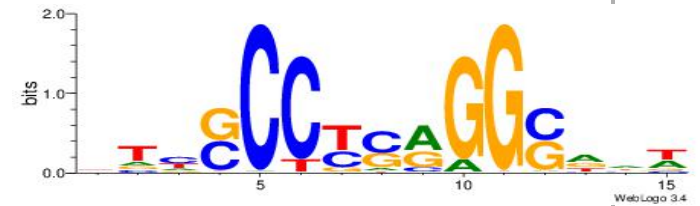
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



---

Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0181073

Alignment:

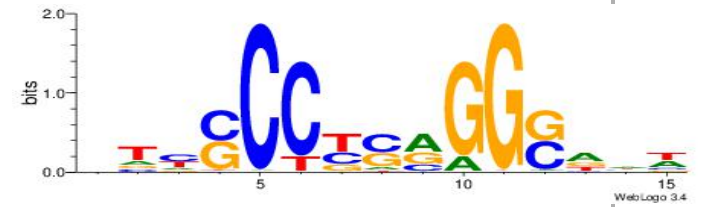
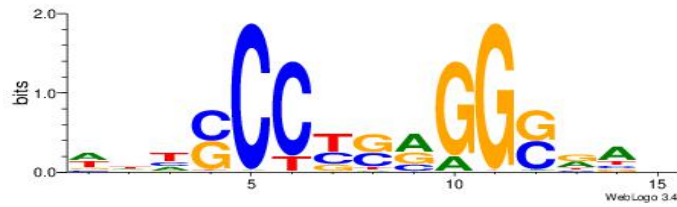
DTMSCCKSMGGSHDW  
--VSCGGSCCGSB--

Original motif

Consensus sequence: WDHSCCYSRGGSRAD

Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW

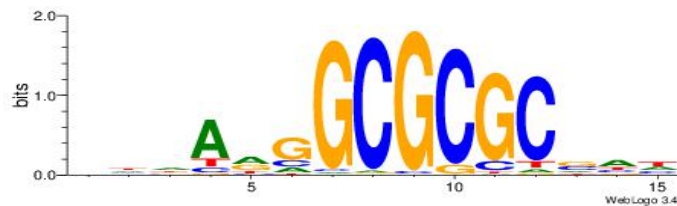


Motif ID: [UP00001](#)  
 Motif name: E2F2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0181335

Alignment:  
 HHVGC GCGCCKTDHB  
 --VSCGGSCCGSB--

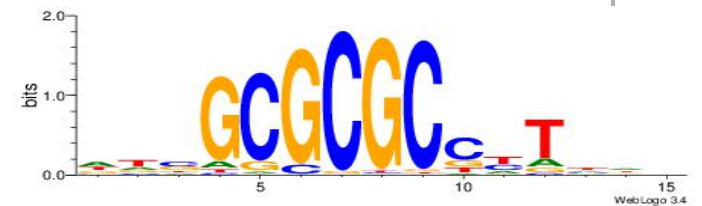
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGC GCGCCKTDHB



Motif ID: [UP00033](#)



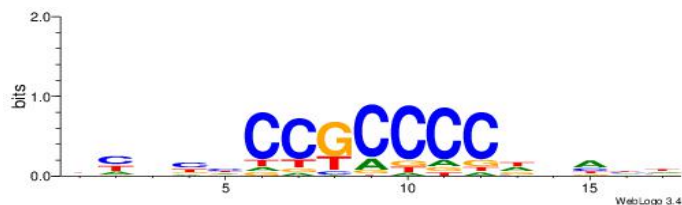
Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.018713

**Alignment:**

HHHHDGGGGCGGDBHDV  
 ---BSCGGSCCGSV---

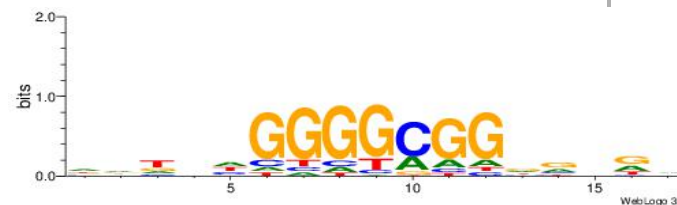
**Original motif**

Consensus sequence: BHHBHCCGCCCCDHHHH



**Reverse complement motif**

Consensus sequence: HHHHDGGGGCGGDBHDV




---

Motif ID: [UP00088](#)  
 Motif name: Plagl1\_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

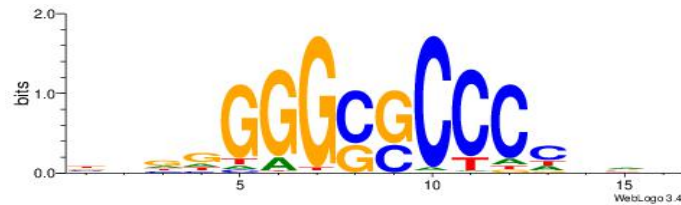
Similarity score: 0.0191969

Alignment:

VBVGGGGSSCCCCHV  
--BSCGGSCCGSV---

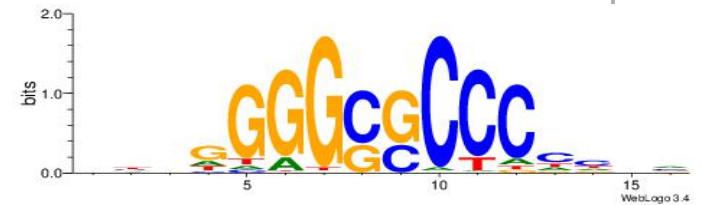
Original motif

Consensus sequence: BHDGGGGSSCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHV



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: 4  
Number of overlap: 11  
Similarity score: 0.019282

Alignment:

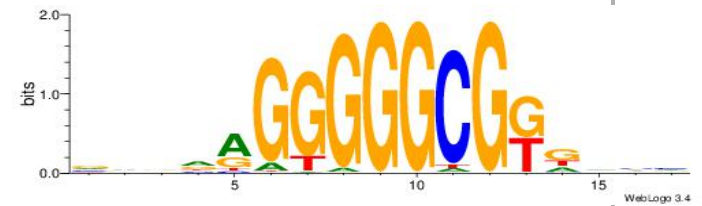
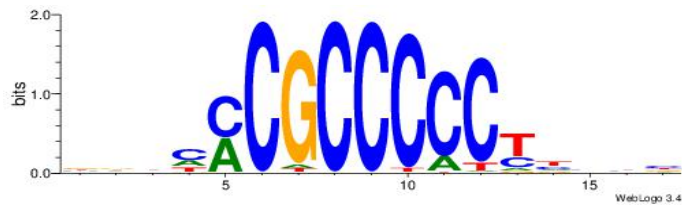
BDHHC GCCCCTHVBB  
---VSCGGSCCGSB---

Original motif

Consensus sequence: BDHHC GCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

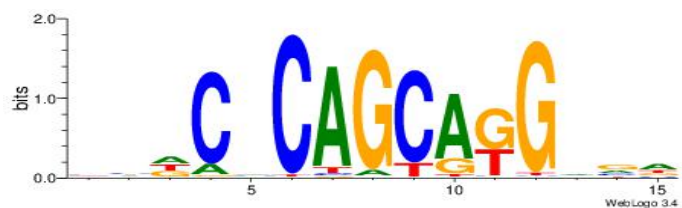


Motif ID: [UP00057](#)  
 Motif name: Zic2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 11  
 Similarity score: 0.0195427

Alignment:  
 DVBCYTGCTGBGDDD  
 -VSCGGSCCGSB---

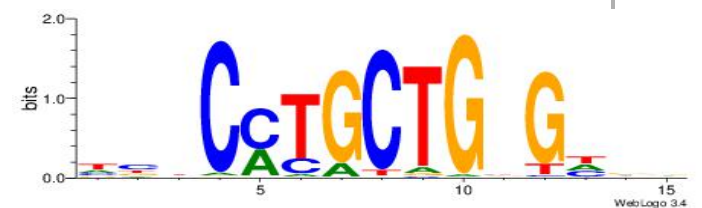
Original motif

Consensus sequence: HHDCVCAGCAKGVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



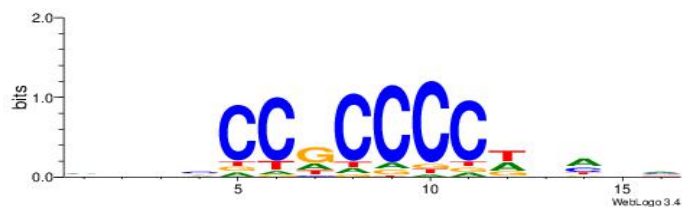
Motif ID: [UP00043](#)  
Motif name: Bcl6b\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0197663

Alignment:

HBBBCCGCCCCWHHHV  
---VSCGGSCCGSB--

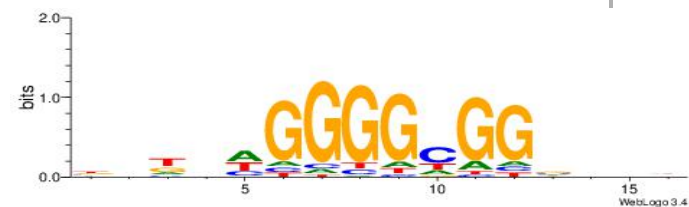
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGBBVH



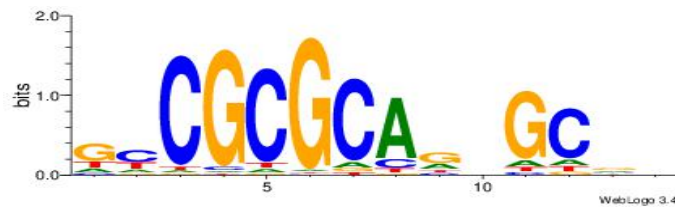
---

Motif ID: [UP00065](#)  
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4

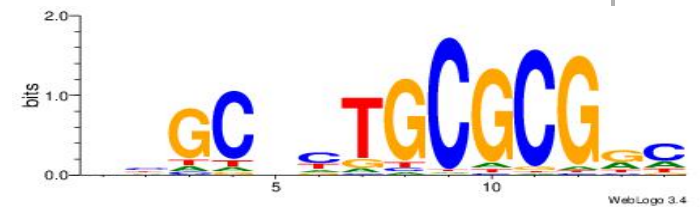
Number of overlap: 11  
Similarity score: 0.0217605

Alignment:  
GYCGCGCARBGCVB  
VSCGGSCGSB---

Original motif  
Consensus sequence: GYCGCGCARBGCVB

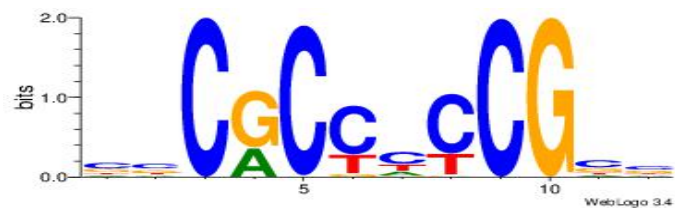


Reverse complement motif  
Consensus sequence: VVGCVMTGCGCGKC

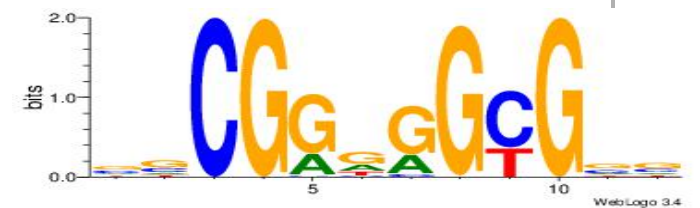


**Dataset #: 4      Motif ID: 88      Motif name: ssCrCYyYCGss**

Original motif  
Consensus sequence: BBCRCCYCCGBB



Reverse complement motif  
Consensus sequence: BBCGGKGGMGBB



**Best Matches for Motif ID 88 (Highest to Lowest)**

Motif ID: [UP00007](#)  
Motif name: Egr1\_primary  
Species: Mus musculus

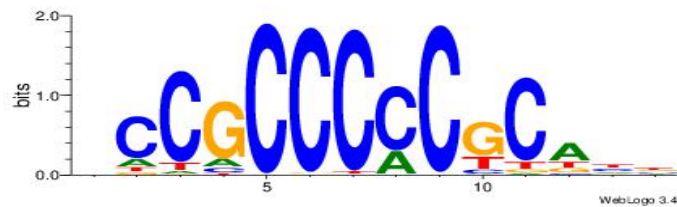
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0

Alignment:

```
HCCGCCCCCGCAHB
BBCRCCYCCGBB--
```

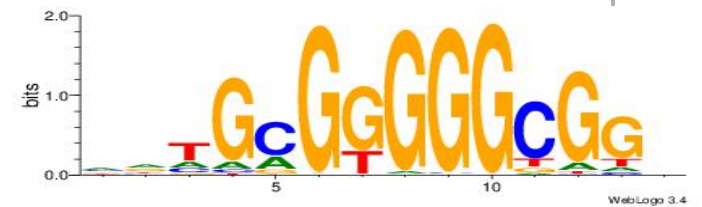
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



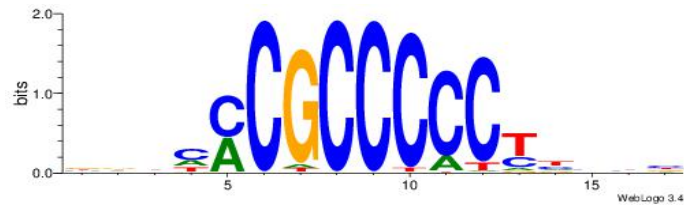
Motif ID:	<a href="#">UP00002</a>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0017378

Alignment:

BVVHAGGGGGCGRDHBB  
--BBCGKGGMGBB----

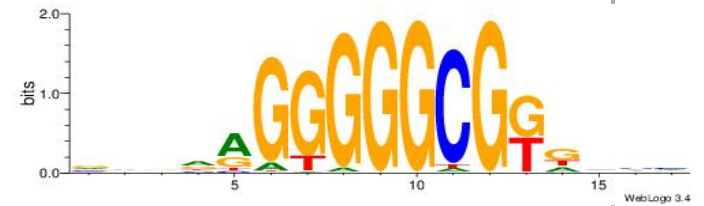
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



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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: 6  
Number of overlap: 12  
Similarity score: 0.00511361

Alignment:

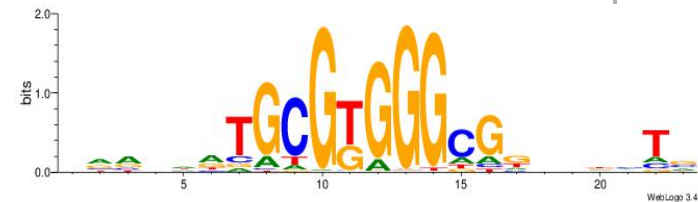
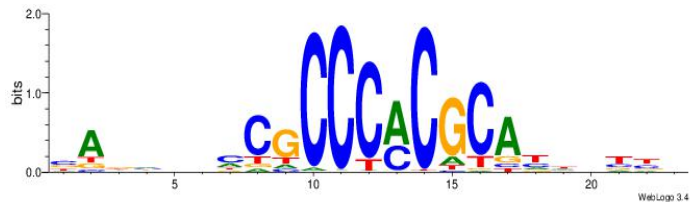
BADHBDHCGCCCMCGCAHHDBBV  
-----BBCRCCYCCGBB-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

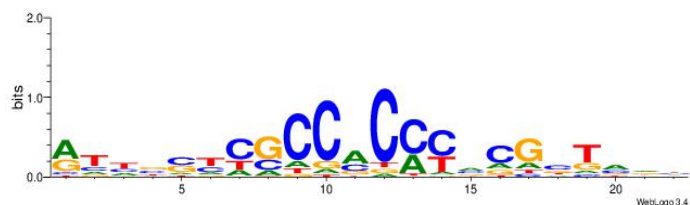
Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



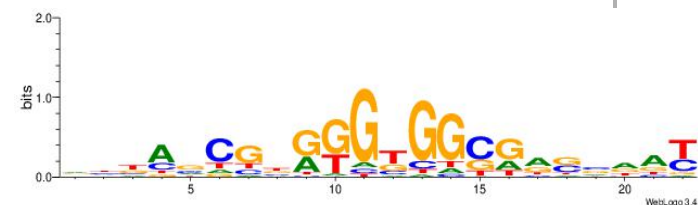
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 12  
 Similarity score: 0.0121746

Alignment:  
 RTHBSYCGCCMCMYVCGBTVDH  
 -----BBCRCCYCCGBB----

Original motif  
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif  
 Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00022](#)



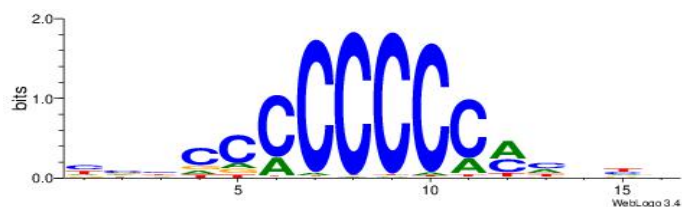
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.0166591

Alignment:

BHHDYGGGGGGGGBVD  
--BBCGGKGGMGBB--

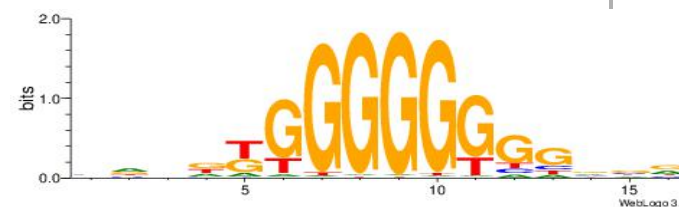
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



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Motif ID: [UP00043](#)  
Motif name: Bcl6b\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 12

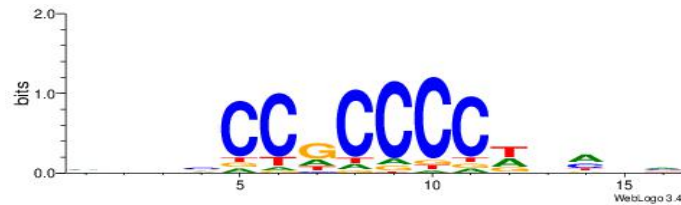
Similarity score: 0.0182309

Alignment:

BHHHWGGGGCGGBBVH  
-BBCGKGGMGBB---

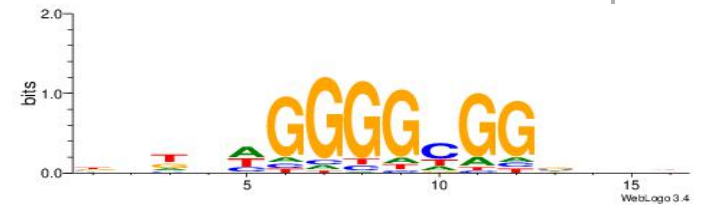
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



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: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0202898

Alignment:

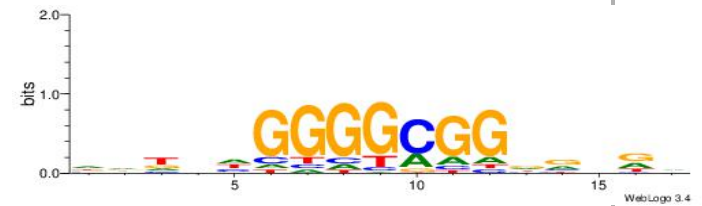
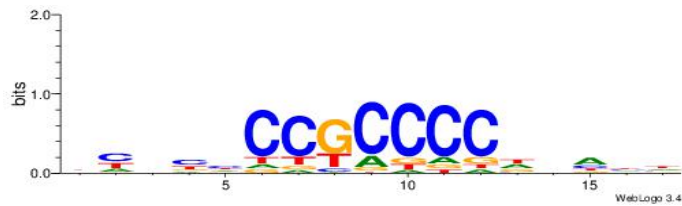
HHHHDGGGGCGGDBHDV  
-BBCGKGGMGBB----

Original motif

Consensus sequence: BHHBHCCGCCCDHHHH

Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



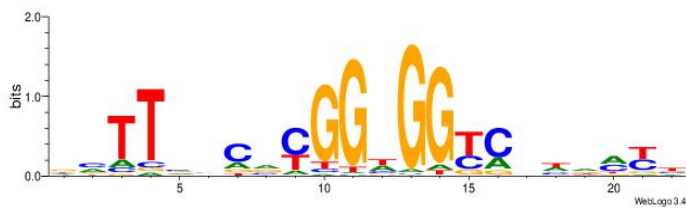
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0203969

**Alignment:**

VMYDHDGMCCCHCCKBGVVAAVH  
 ----BBCRCCYCCGBB-----

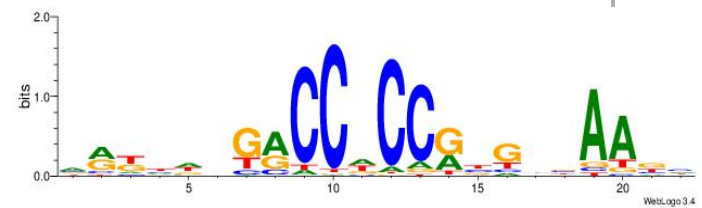
**Original motif**

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



**Reverse complement motif**

Consensus sequence: VMYDHDGMCCCHCCKBGVVAAVH



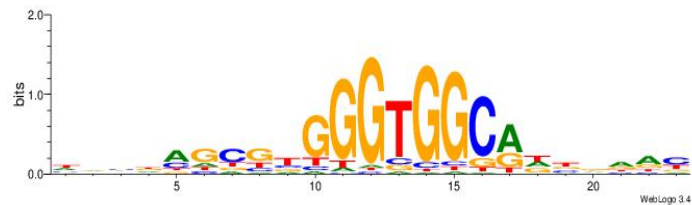
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 12  
 Similarity score: 0.0221373

**Alignment:**

BDDHVDKGCCACCCVCGCTDBVH  
 -----BBCRCCYCCGBB-----

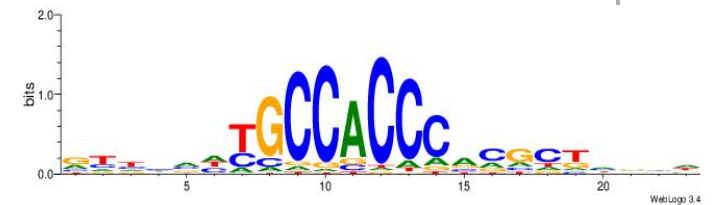
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



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: 6

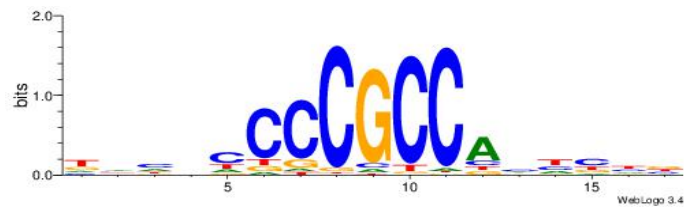
Number of overlap: 12  
Similarity score: 0.0234529

Alignment:

DHHBCCCCGCCAHHBHB  
-----BCCRCCYCCGBB

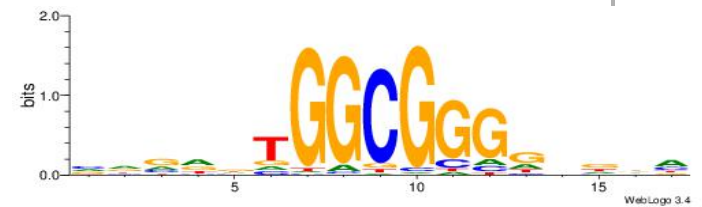
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

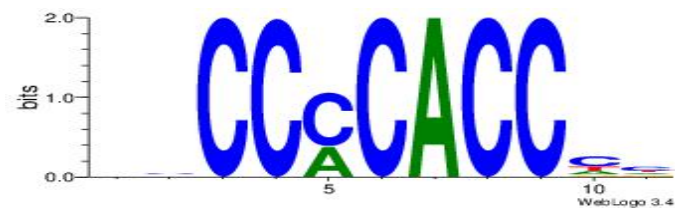
Consensus sequence: BHBHDTGGCGGGGBDHD



**Dataset #: 4      Motif ID: 89      Motif name: ccCCmCACcc**

Original motif

Consensus sequence: HBCCMCACCHH



Reverse complement motif

Consensus sequence: DDGGTGRGGBD



**Best Matches for Motif ID 89 (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:	4
Number of overlap:	11
Similarity score:	0

Alignment:

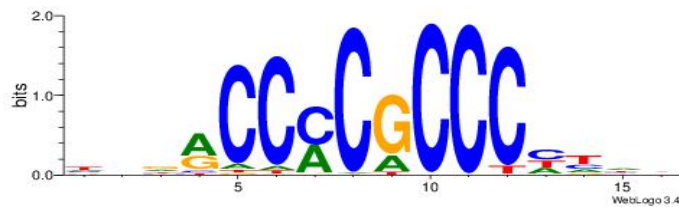
```

HBDRCCMCGCCHHHD
--HBCCMCACCHH---

```

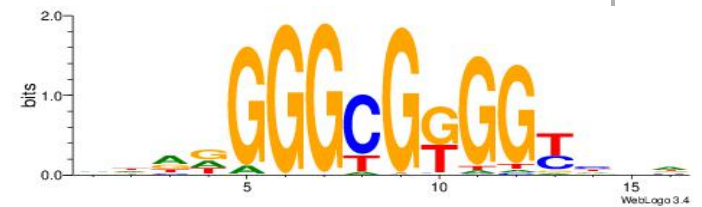
Original motif

Consensus sequence: HBDRC~~CMCGCC~~HHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGGGKHBH



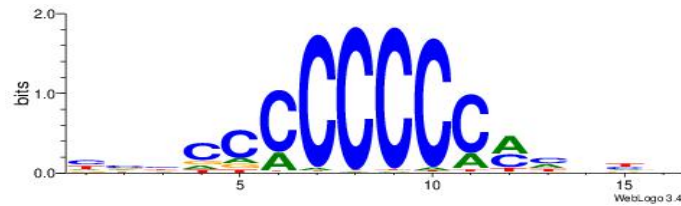
Motif ID:	<a href="#">UP00022</a>
Motif name:	Zfp740_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.00768447

Alignment:

HVBCCCCCCCCMHHHB  
-HBCCMCACCHH-----

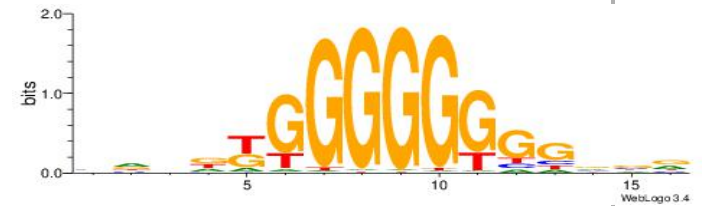
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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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: 5  
Number of overlap: 11  
Similarity score: 0.0138334

Alignment:

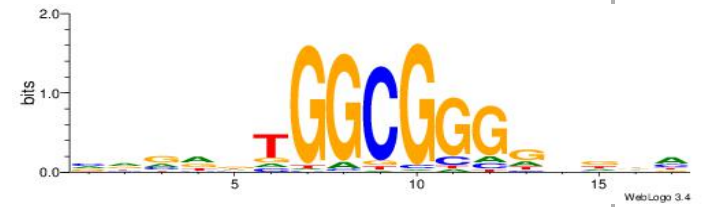
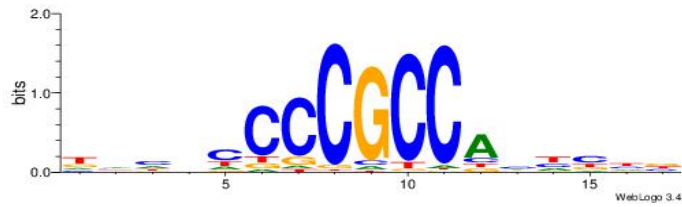
DHHBCCCCGCCAHHBHB  
--HBCCMCACCHH-----

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD

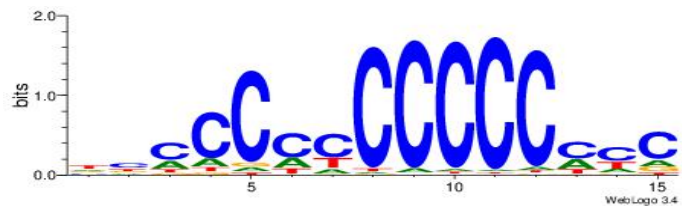


Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0173499

Alignment:  
 DBCCCCCCCCMYC  
 --HBCCMCACCH--

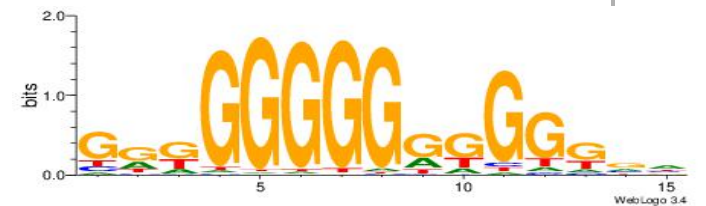
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00540](#)



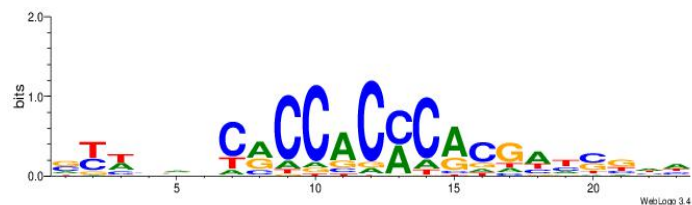
Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0217412

**Alignment:**

HHBSHTCGTGRGTGGKGDBVWMV  
 -----DDGGTGRGGBD-----

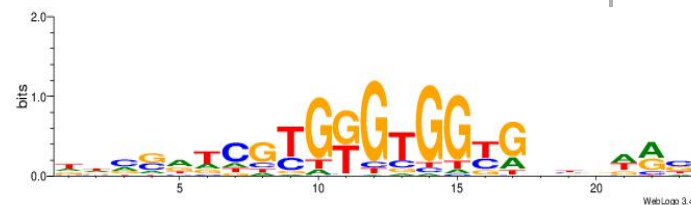
**Original motif**

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



**Reverse complement motif**

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV




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Motif ID: [UP00068](#)  
 Motif name: Eomes\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11

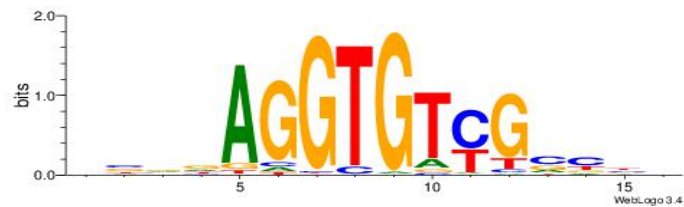
Similarity score: 0.0224448

Alignment:

VVBVCKACACCTHVBV  
--HBCCMCACCHH---

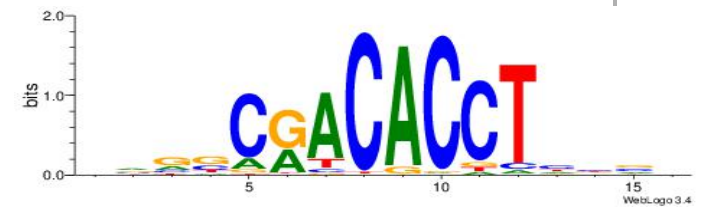
Original motif

Consensus sequence: VBVDAGGTGTGVBBV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV



Motif ID: [UP00043](#)  
Motif name: Bcl6b\_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: 0.0225902

Alignment:

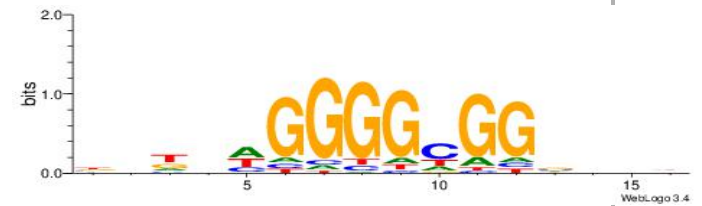
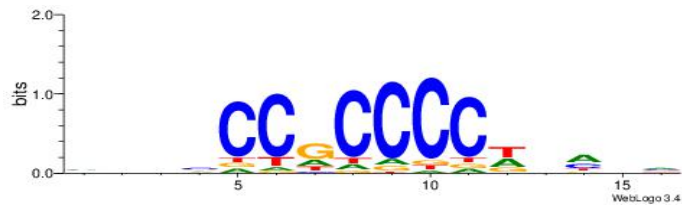
HBBBCCGCCCCWHHHV  
--HBCCMCACCHH---

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



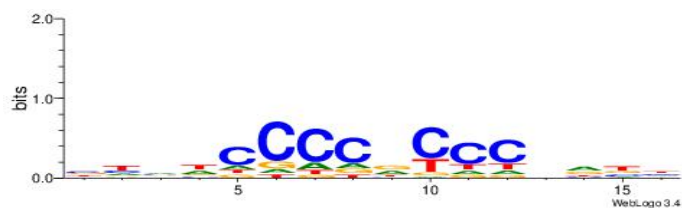
Motif ID: [UP00099](#)  
 Motif name: Ascl2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0228722

Alignment:

BHVDCCCCDCCCBDBH  
 --HBCCMCACCHH---

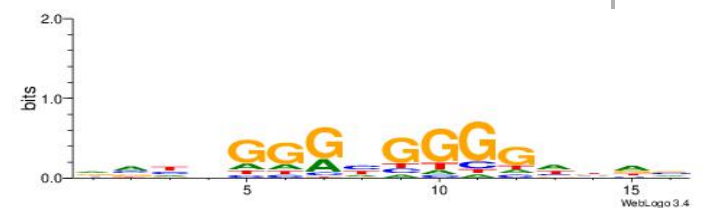
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



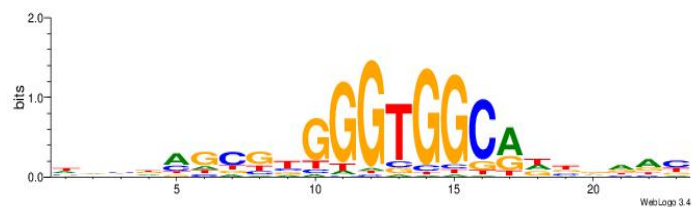
Motif ID: [UP00538](#)  
 Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 11  
 Similarity score: 0.0245037

**Alignment:**

HVBDAGCGBGGGTGGCRDBDDDB  
 -----DDGGTGRGGBD-----

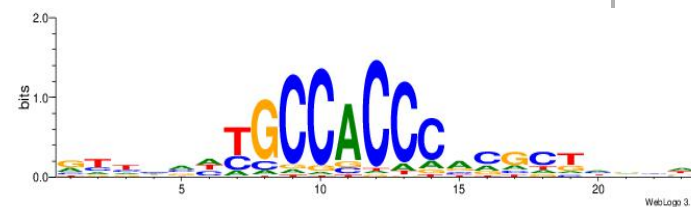
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5

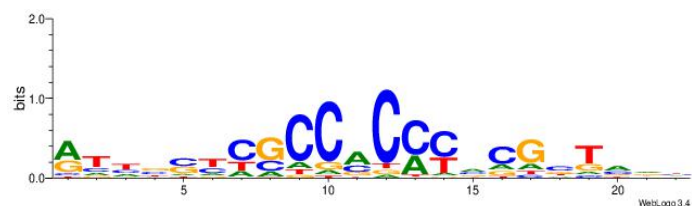
Number of overlap: 11  
Similarity score: 0.0265658

Alignment:

RTHBSYCGCCMCMYVCGBTVDH  
----HBCCMCACCHH-----

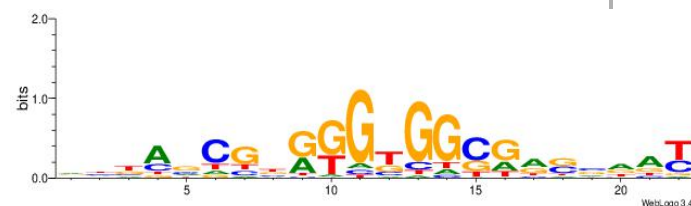
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



**Dataset #: 4      Motif ID: 90      Motif name: ssCGsCwsCss**

Original motif

Consensus sequence: BBCGSCWSCBB



Reverse complement motif

Consensus sequence: BBSWGSCGGB



**Best Matches for Motif ID 90 (Highest to Lowest)**

Motif ID: [UP00099](#)  
Motif name: Ascl2\_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:	0.0130439

**Alignment:**

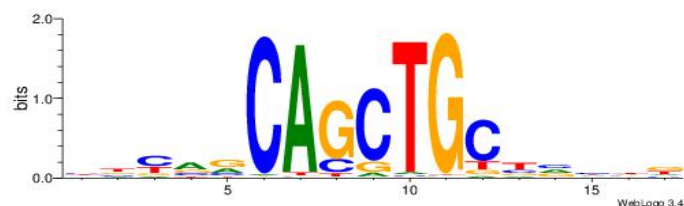
```

HHDVVGCAGCTGVBKVB
---BBSWGSCGBB---

```

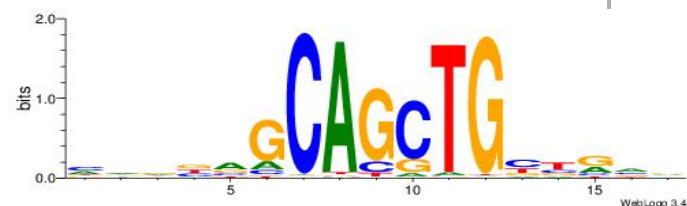
**Original motif**

Consensus sequence: BBYVVCAGCTGCBVHHD



**Reverse complement motif**

Consensus sequence: HHDVVGCAGCTGVBKVB



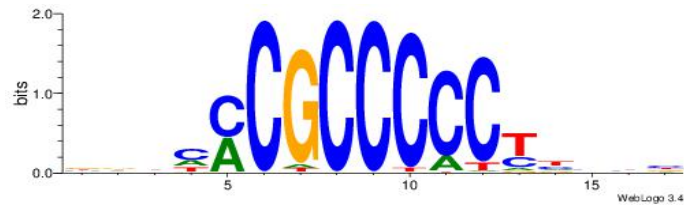
Motif ID:	<a href="#">UP00002</a>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0163536

Alignment:

BDHHMCGCCCCCTHVBB  
---BBCGSCWSCBB---

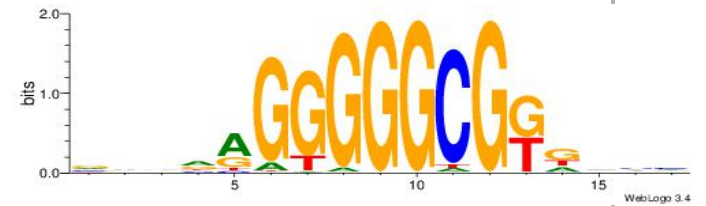
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



---

Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 6  
Number of overlap: 11  
Similarity score: 0.0174052

Alignment:

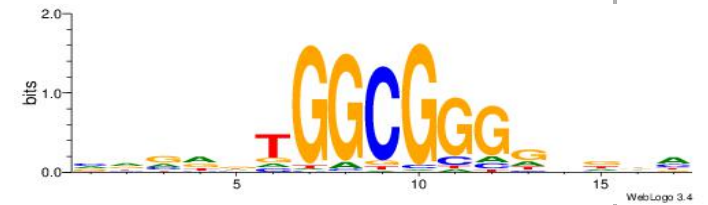
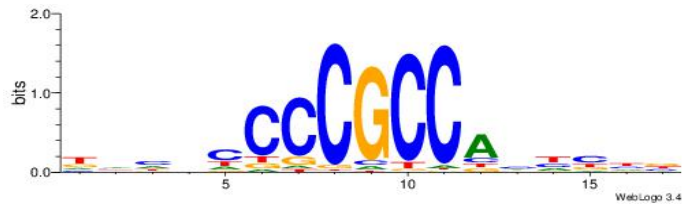
DHHBCCCCGCCAHHBHB  
-----BBCGSCWSCBB-

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD

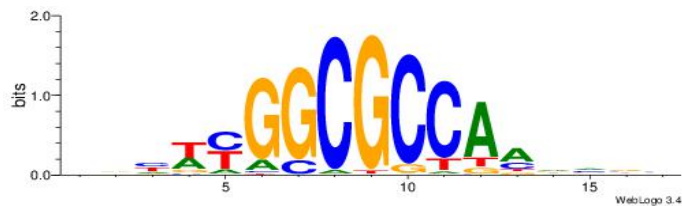


Motif ID: [UP00003](#)  
 Motif name: E2F3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0191478

Alignment:  
 BBBDYTGGCGCKWDBD  
 -BBSWGSCGBB-----

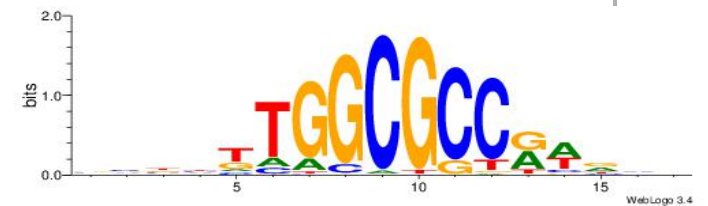
Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00038](#)

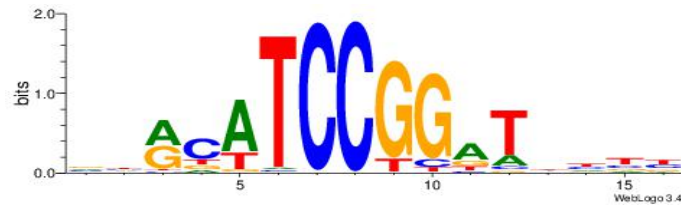


Motif name: Spdef\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 11  
 Similarity score: 0.0192028

Alignment:  
 VVHHATCCGGATGKHV  
 BBGSWGSCGBB-----

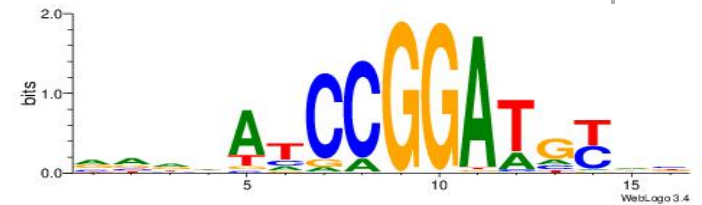
Original motif

Consensus sequence: VHRCATCCGGATHHBB



Reverse complement motif

Consensus sequence: VVHHATCCGGATGKHV



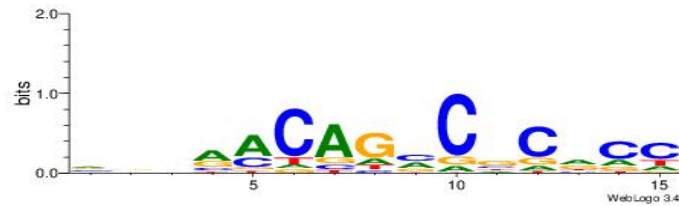
Motif ID: [UP00036](#)  
 Motif name: Myf6\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0207004

Alignment:

GGDGBGVCTGTKVVB  
--BBCGSCWSCBB--

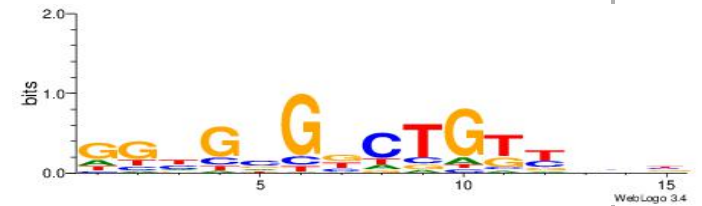
Original motif

Consensus sequence: VVVRACAGVCBCDCC



Reverse complement motif

Consensus sequence: GGDGBGVCTGTKVVB



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Motif ID: [UP00001](#)  
Motif name: E2F2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 11  
Similarity score: 0.0211994

Alignment:

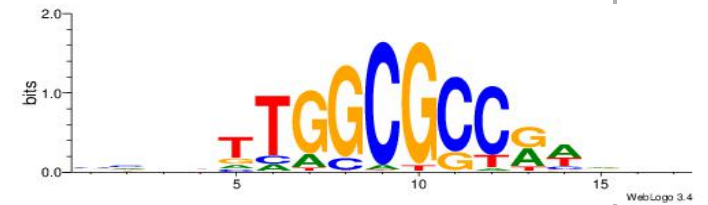
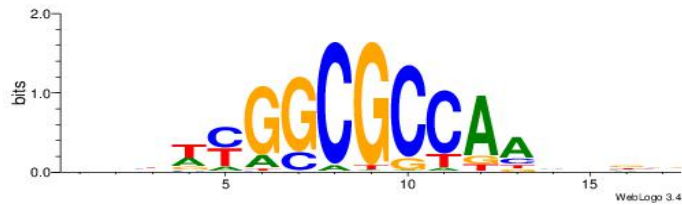
BBBDTTGGCGCCKWVVD  
-----BBCGSCWSCBB

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD

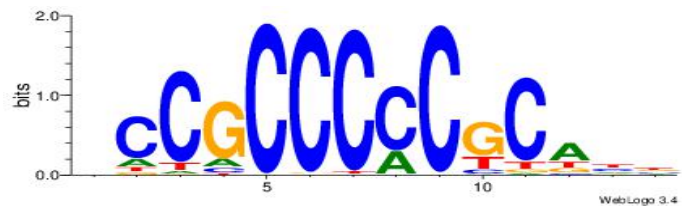


Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0223013

Alignment:  
 HCCGCCCCGCAHB  
 BBCGSCWSCBB---

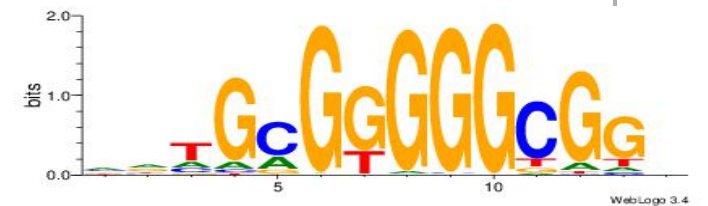
Original motif

Consensus sequence: HCCGCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGCGGH



Motif ID: [UP00400](#)

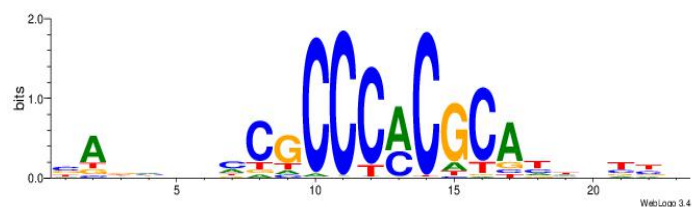
Motif name: Zif268  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0243838

**Alignment:**

BADHBDHCGCCCMCGCAHHDBBV  
 -----BBCGSCWSCBB-----

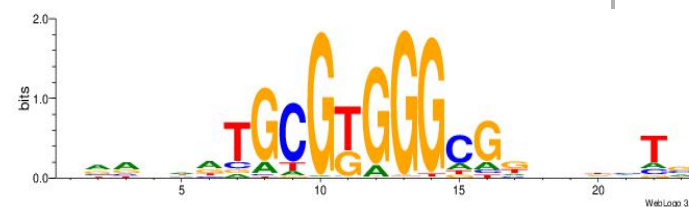
**Original motif**

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



**Reverse complement motif**

Consensus sequence: VVDHHTGCGYGGGCGDHSVHHTB




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Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11

Similarity score:

0.0243929

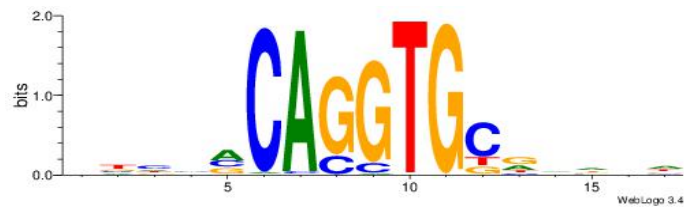
Alignment:

DHDBHGCACCTGBDDVB

----BBCGSCWSCBB--

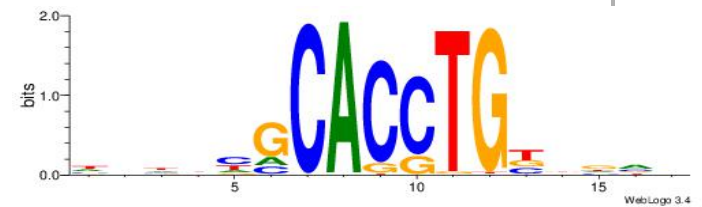
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



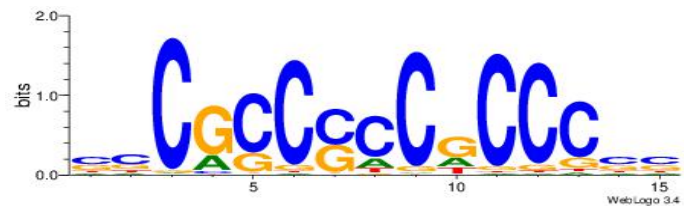
**Dataset #: 4**

**Motif ID: 91**

**Motif name: ssCGCCsCCrCCCss**

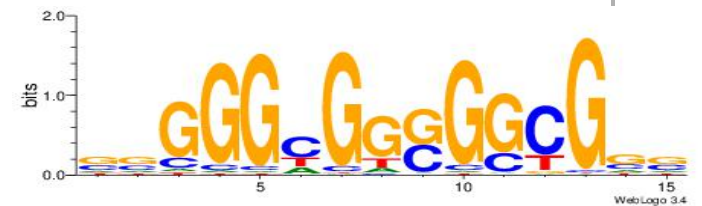
Original motif

Consensus sequence: SSCGCCSCCGCCSS



Reverse complement motif

Consensus sequence: SSGGGCGSGGCGSS



### Best Matches for Motif ID 91 (Highest to Lowest)

Motif ID:

[UP00400](#)

Motif name:

Zif268

Species:

Mus musculus

Matching format of first motif:

Original Motif

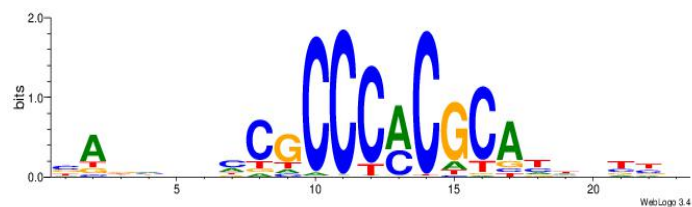
Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 15  
 Similarity score: 0.013801

Alignment:

BADHBDHCGCCCMCGCAHHDBBV  
 -----SSCGCCSCCGCCSS----

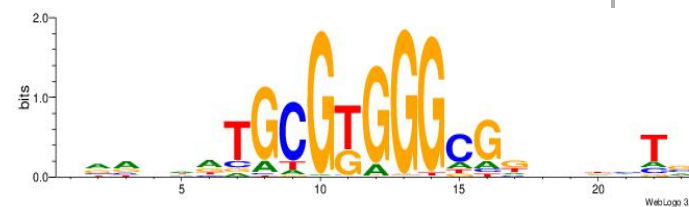
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHSVHHTB



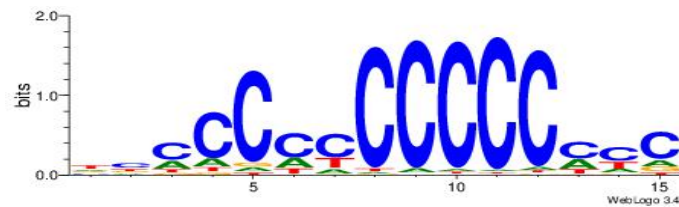
Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.0189308

Alignment:

GKRGGGGGGGGGGBD  
SSGGGCGGSSGGCGSS

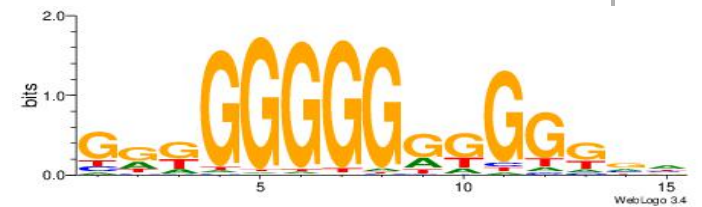
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00539](#)  
Motif name: Gli2\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0243383

Alignment:

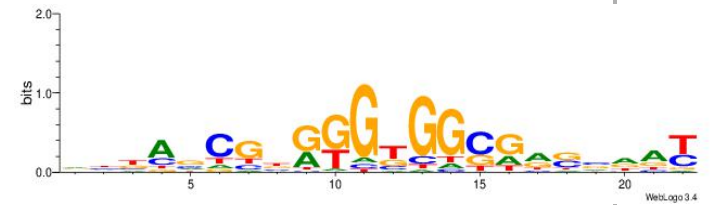
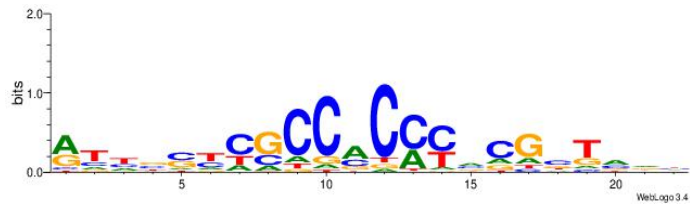
RTHBSYCGCCMCMYVCGBTVDH  
-SSCGCCSCCGCCSS-----

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

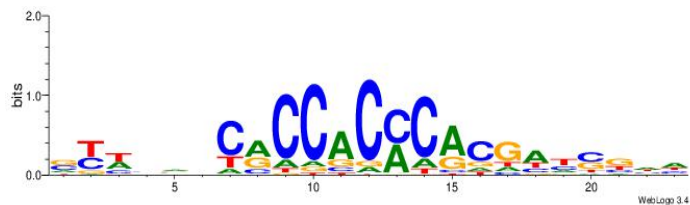
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



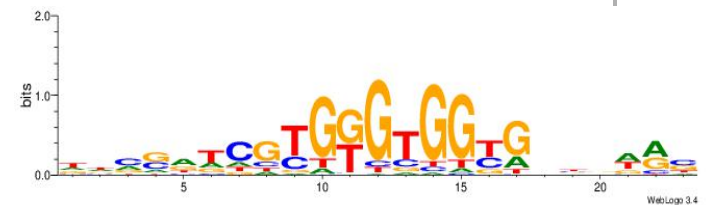
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0259668

Alignment:  
 VYWVVHCRCCACMCACGAHSBHH  
 -SSCGCCSCCGCCSS-----

Original motif  
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif  
 Consensus sequence: HHBSHTCGTGRGTGGKGDVWVM



Motif ID: [UP00000](#)



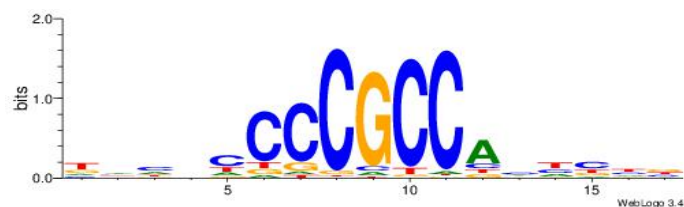
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 15  
Similarity score: 0.0261816

Alignment:

DHHBCCCCGCCAHHBHB  
--SSCGCCSCCGCCSS

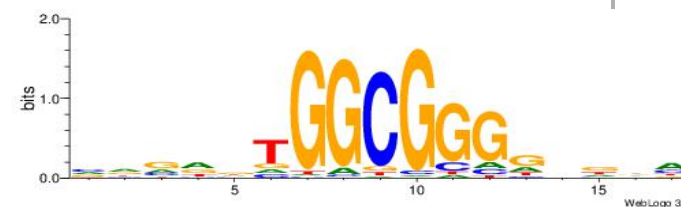
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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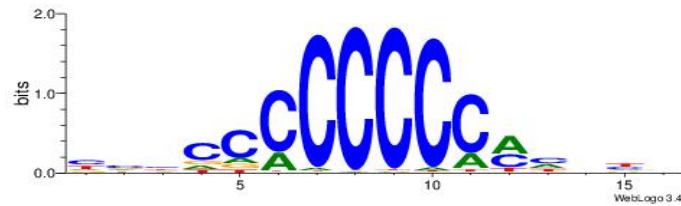
Motif ID: [UP00022](#)  
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.0275827

Alignment:

HVBCCCCCCCCMHHHB  
-SSCGCCSCCGCCSS

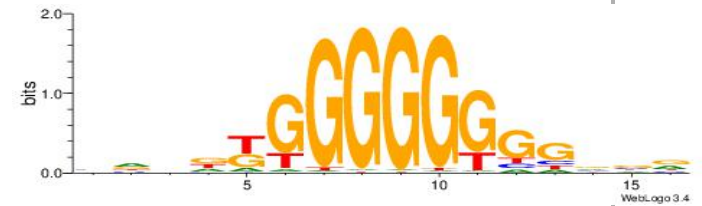
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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Motif ID: [UP00538](#)  
Motif name: Gli1\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 15  
Similarity score: 0.0288149

Alignment:

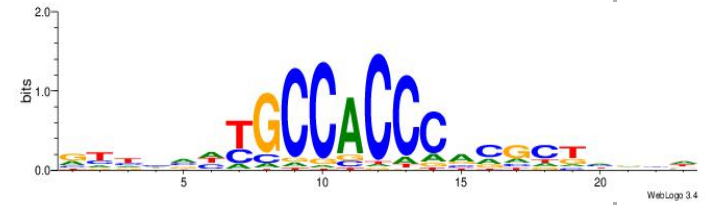
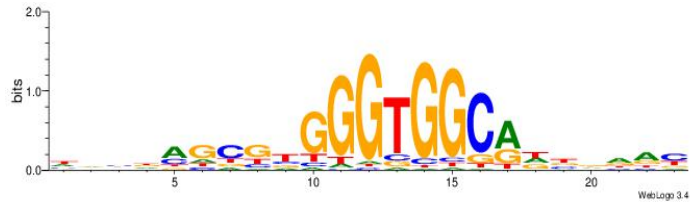
BDDHVDKGCCACCCVCGCTDBVH  
-----SSCGCCSCCGCCSS-

Original motif

Consensus sequence: HVBDA GCGBGGGTGGCRDBDDDB

Reverse complement motif

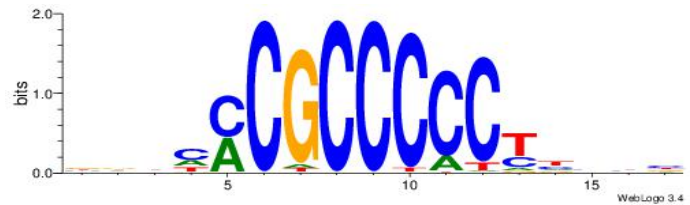
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



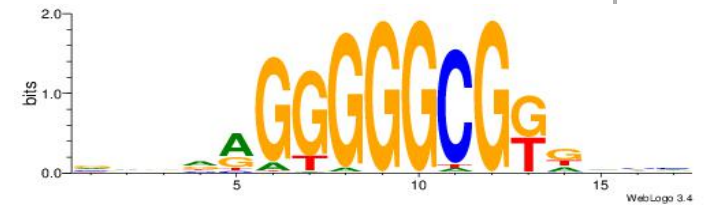
Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.0313909

Alignment:  
 BDHHMCGCCCCCTHVBB  
 SSCGCCSCCGCCCSS--

Original motif  
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif  
 Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary

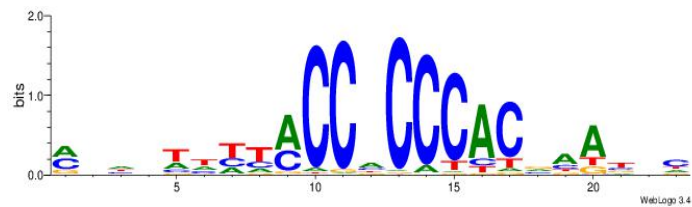
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 15  
 Similarity score: 0.0337952

Alignment:

MHHHWHYTMCCCHCCCACVAABVH  
 -----SSCGCCSCCGCCSS

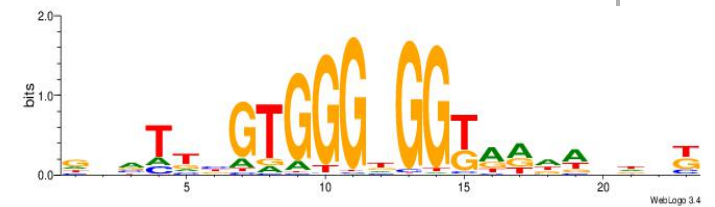
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVTTVGTGGGHGGYAMHWHHHY



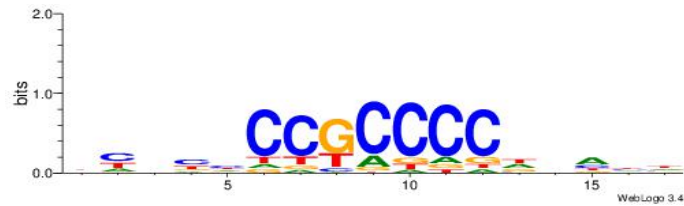
Motif ID: [UP00033](#)  
 Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.0340021

Alignment:

HHHHDGGGGCGGDBHDV  
-SSGGGCGGSSGGCGSS-

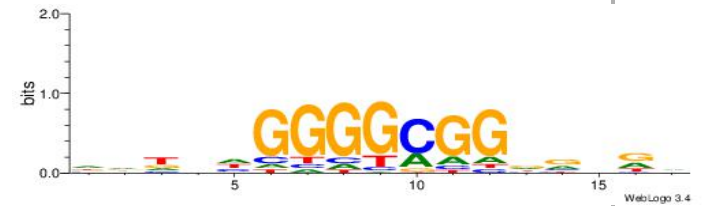
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



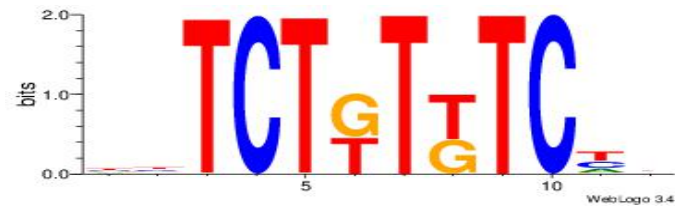
**Dataset #: 4**

**Motif ID: 92**

**Motif name: tyTCTkTkTCyy**

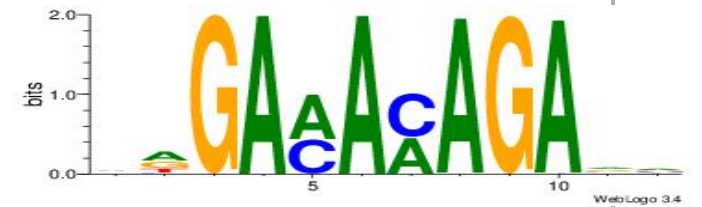
Original motif

Consensus sequence: BBTCTKTKTCHB



Reverse complement motif

Consensus sequence: VHGARAYAGAVV



### Best Matches for Motif ID 92 (Highest to Lowest)

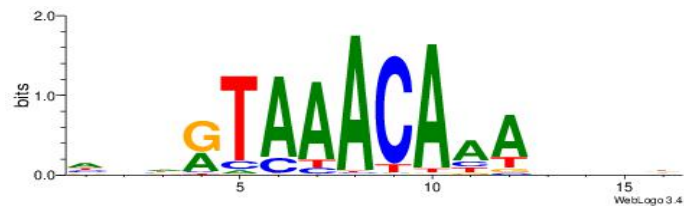
Motif ID:	<a href="#">UP00041</a>
Motif name:	Foxj1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction: Backward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.00580204

Alignment:  
DDDHTTTGTTTAMHDH  
--BBTCTKTKTCHB--

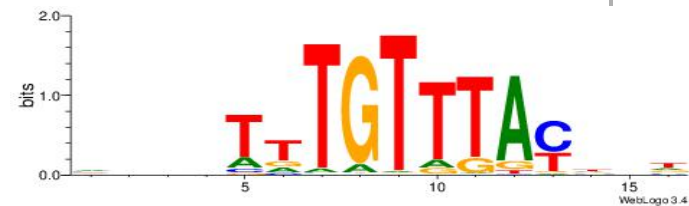
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



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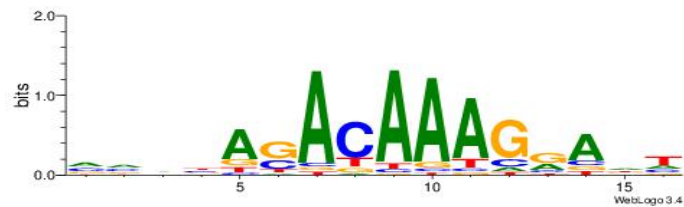
Motif ID: [UP00101](#)  
Motif name: Sox12\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.00792317

Alignment:

HDTMCTTTGTSTVDBB  
-BBTCTKTKTCHB---

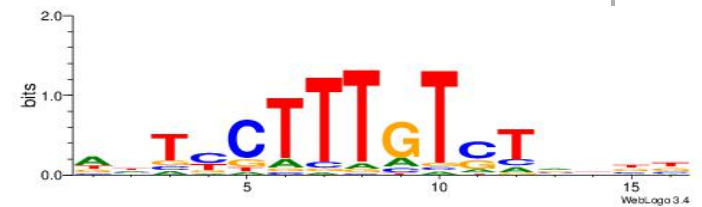
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID: [UP00039](#)  
Motif name: Foxj3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0121

Alignment:

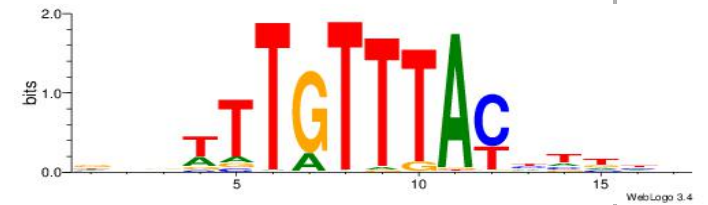
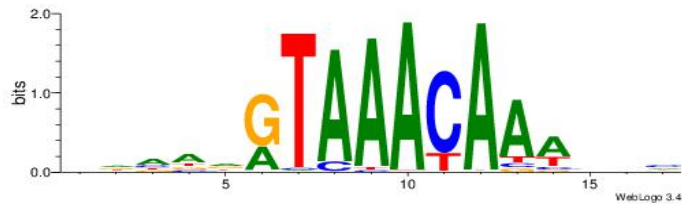
DVVTGGTTTACDTHDH  
-BBTCTKTKTCHB----

Original motif

Consensus sequence: HDHADGTAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTGGTTTACDTHDH

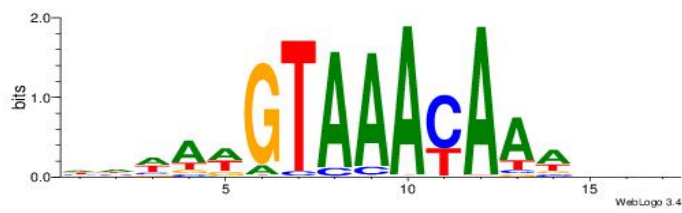


Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0121551

Alignment:  
 BDVTTTKTTTACWTWHH  
 -BBTCTKTKTCHB----

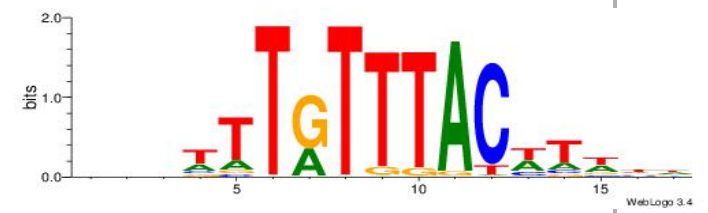
Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00062](#)



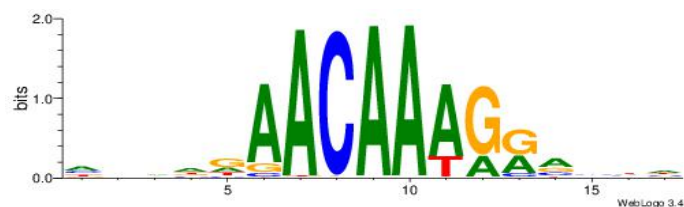
Motif name: Sox4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0139275

Alignment:

HHBBMCTTTGTTTHDDBH  
 --BBTCTKTKTCHB---

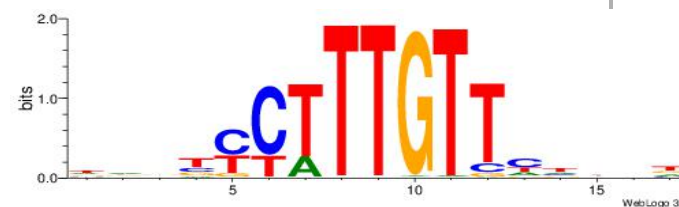
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH




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Motif ID: [UP00011](#)  
 Motif name: Irf6\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 12

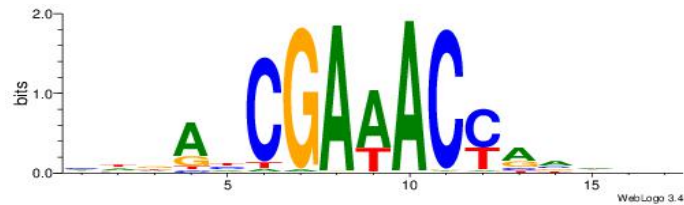
Similarity score: 0.015539

Alignment:

DHDBTKGTTTCGHTHDD  
-BBTCTKTKTCHB----

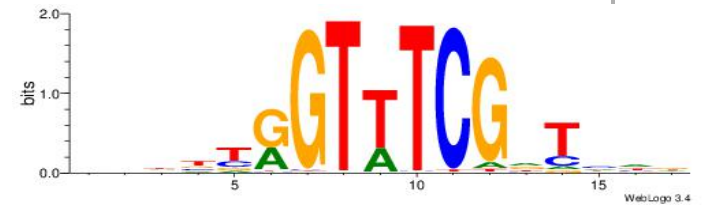
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 12  
Similarity score: 0.0160684

Alignment:

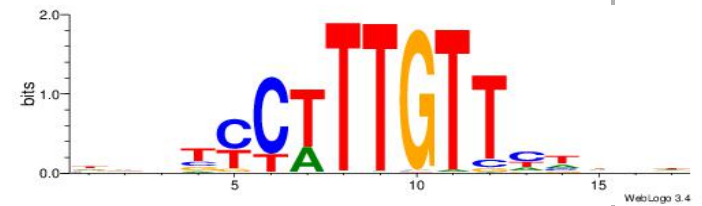
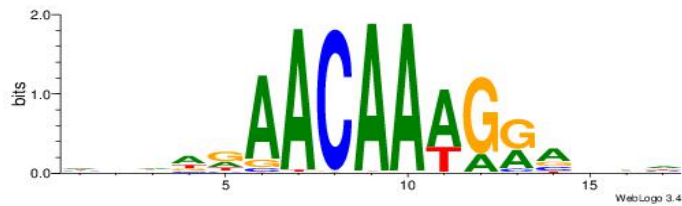
HHBTMCTTTGTTMDDVH  
--BBTCTKTKTCHB---

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



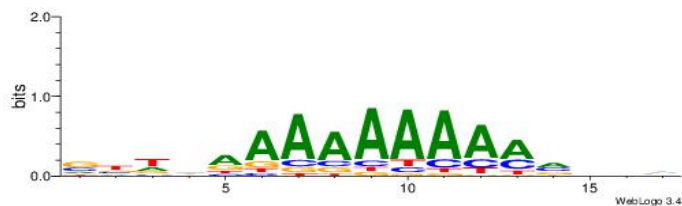
Motif ID: [UP00077](#)  
 Motif name: Srf\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0166843

**Alignment:**

HHVBYTTTTTTTTDDVV  
 --BBTCTKTKTCHB---

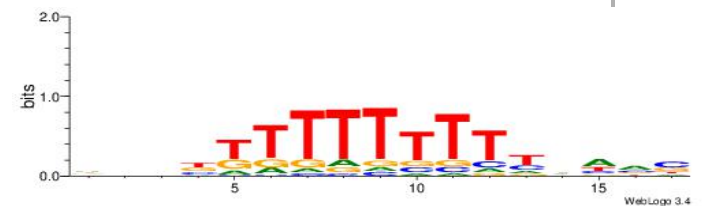
**Original motif**

Consensus sequence: VBDDAAAAAAAAAMVBHH



**Reverse complement motif**

Consensus sequence: HHVBYTTTTTTTTDDVV



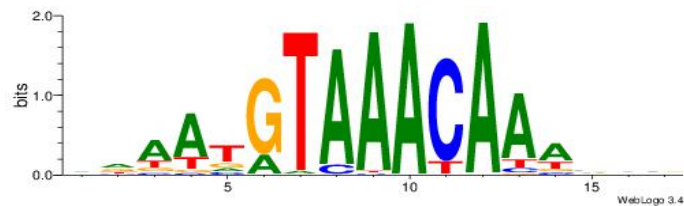
Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0172528

**Alignment:**

BBVTTTGTTTACATTDD  
 -BBTCTKTKTCHB-----

**Original motif**

Consensus sequence: DDAATGTAAACAAVVB



**Reverse complement motif**

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00061](#)  
 Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2

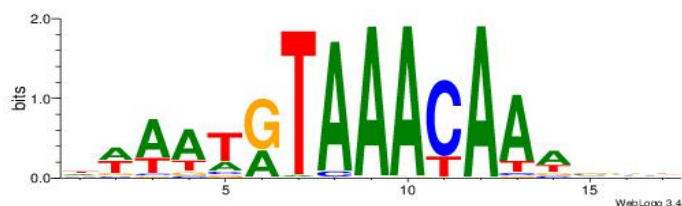
Number of overlap: 12  
Similarity score: 0.0200976

Alignment:

VVVWTTGTTTAMATTWD  
-BBTCTKTKTCHB----

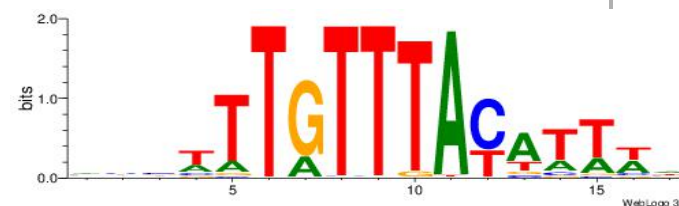
Original motif

Consensus sequence: DWAATR TAAACA WVV B



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



**Dataset #: 4      Motif ID: 93      Motif name: rrAGGGGGArr**

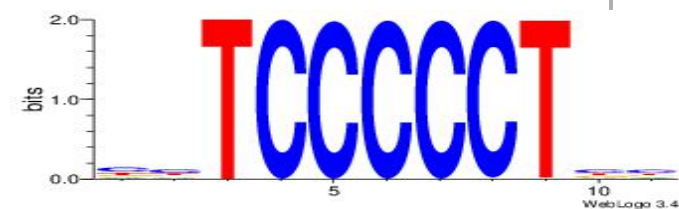
Original motif

Consensus sequence: VVAGGGGGAVV



Reverse complement motif

Consensus sequence: VV TCCCCCT VV



**Best Matches for Motif ID 93 (Highest to Lowest)**

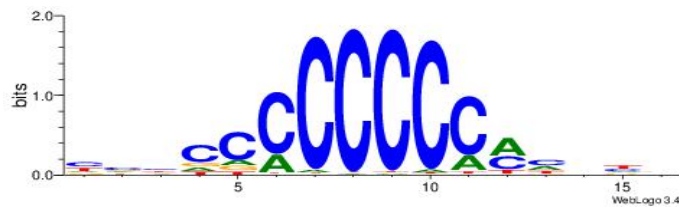
Motif ID: [UP00022](#)  
Motif name: Zfp740\_primary  
Species: Mus musculus

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

Alignment:  
 BHHDYGGGGGGGGBVD  
 --VVAGGGGGAVV---

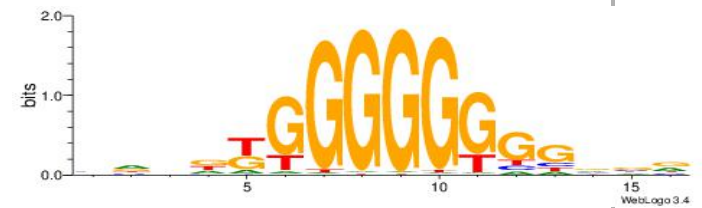
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



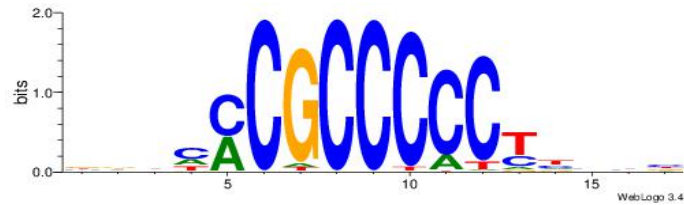
Motif ID:	<a href="#">UP00002</a>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.00297135

Alignment:

BVVHAGGGGGCGRDHBB  
--VVAGGGGGAVV-----

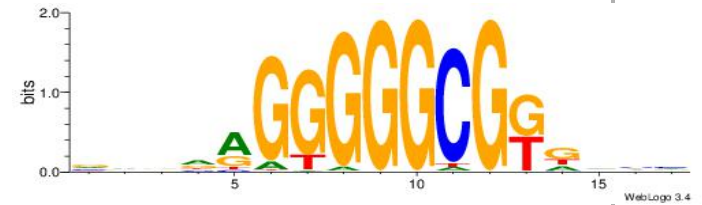
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



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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: Forward  
Position number: 1  
Number of overlap: 11  
Similarity score: 0.00395342

Alignment:

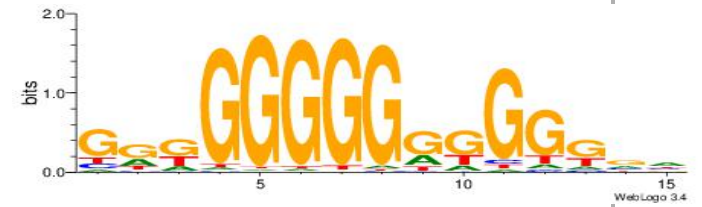
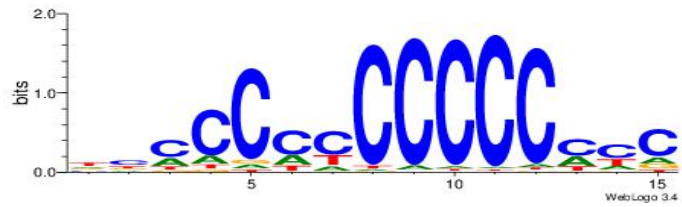
DBCCCCCCCCCMYC  
VVAGGGGGAVV-----

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

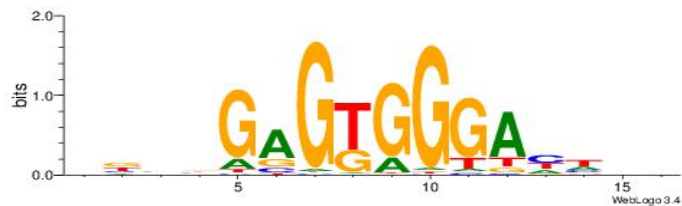
Consensus sequence: GKRGGGGGGGGGGBD



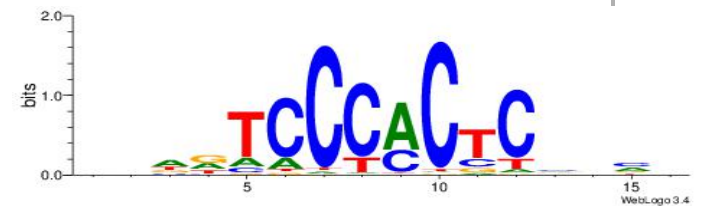
Motif ID: [UP00007](#)  
 Motif name: Egr1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.00991424

Alignment:  
 BBHBGAGTGGGAHHDB  
 ---VVAGGGGGAVV--

Original motif  
 Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif  
 Consensus sequence: BHHTCCCACTCBDBV



Motif ID: [UP00022](#)



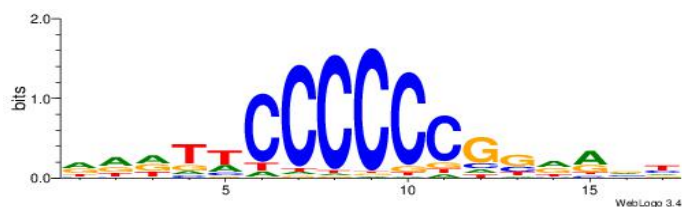
Motif name: Zfp740\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0102767

**Alignment:**

HVKDCCGGGGGGWADDD  
 ----VVAGGGGGAVV--

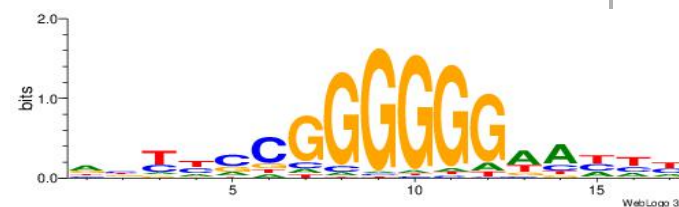
**Original motif**

Consensus sequence: DDDTWCCCCCGGDRVH



**Reverse complement motif**

Consensus sequence: HVKDCCGGGGGGWADDD




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Motif ID: [UP00047](#)  
 Motif name: Zbtb7b\_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: 11

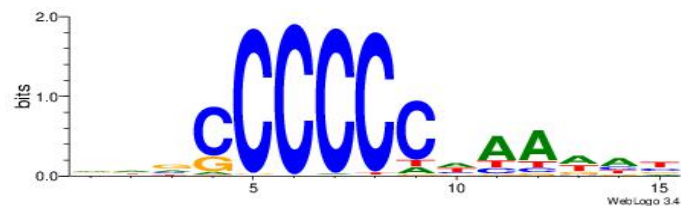
Similarity score: 0.0107925

Alignment:

VHWTTHGGGGGGVDD  
----VVAGGGGGAVV

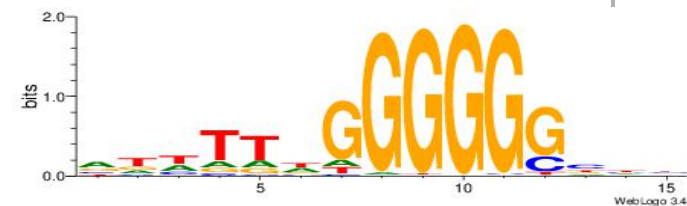
Original motif

Consensus sequence: DDVCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



Motif ID: [UP00239](#)  
Motif name: Obox2  
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: 0.0138823

Alignment:

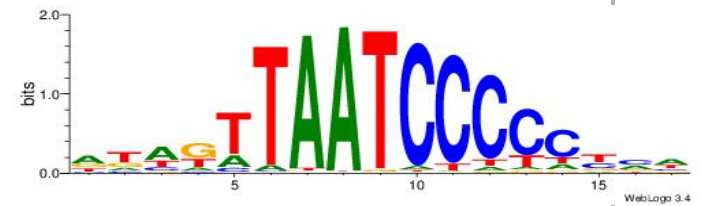
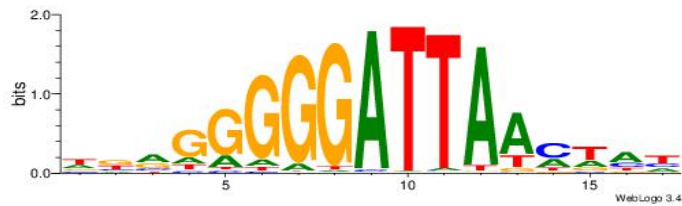
HTARTTAATCCCCCKBD  
-----VVTCCCCCTVV

Original motif

Consensus sequence: DBRGGGGGATTAAMTAH

Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



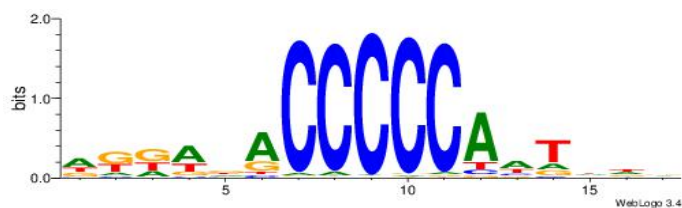
Motif ID: [UP00021](#)  
 Motif name: Zfp281\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0148152

**Alignment:**

VDDAHTGGGGGTHWYYD  
 ---VVAGGGGGAVV---

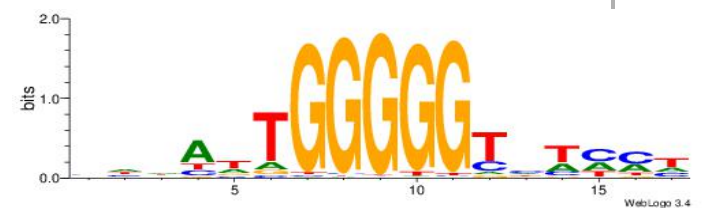
**Original motif**

Consensus sequence: DKKWDACCCCAHTDDV



**Reverse complement motif**

Consensus sequence: VDDAHTGGGGGTHWYYD

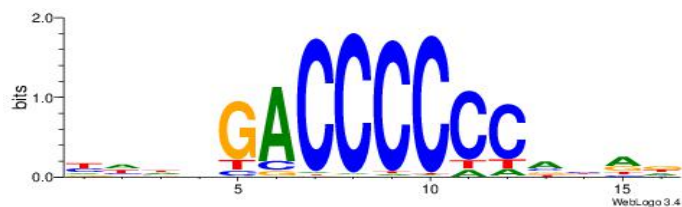


Motif ID: [UP00024](#)  
Motif name: Glis2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.01486

Alignment:  
HHHVGACCCCCVBRD  
---VVTCCCCCTV--

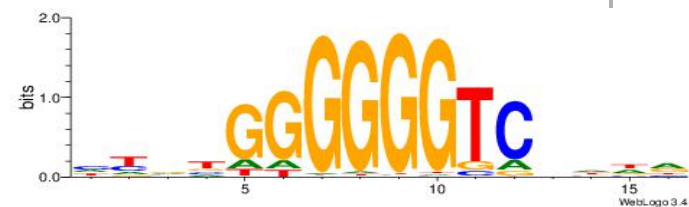
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGTCVHHH



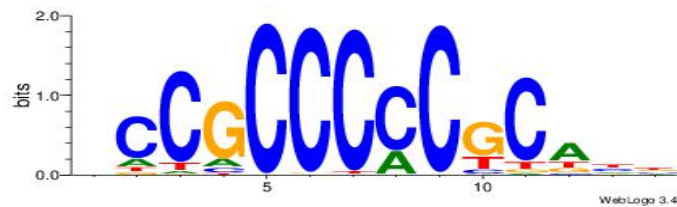
---

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: Backward  
Position number: 3

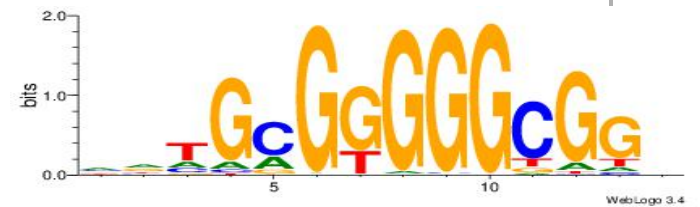
Number of overlap: 11  
Similarity score: 0.0191569

Alignment:  
HCCGCCCCCGCAHB  
-VVTCCCCTVV--

Original motif  
Consensus sequence: HCCGCCCCCGCAHB

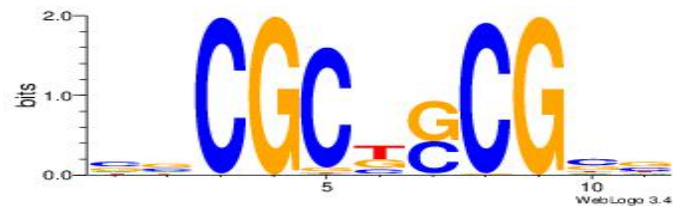


Reverse complement motif  
Consensus sequence: VHTGCGGGGGCGGH

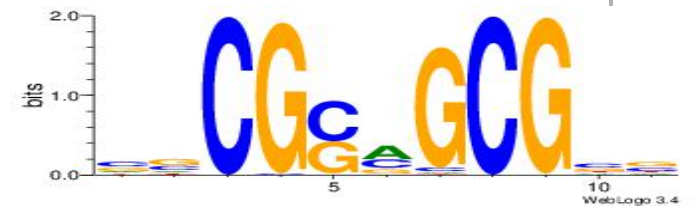


**Dataset #: 4      Motif ID: 94      Motif name: ssCGCksCGss**

Original motif  
Consensus sequence: VVCGCKSCGBB



Reverse complement motif  
Consensus sequence: BBCGSRGCGVV



**Best Matches for Motif ID 94 (Highest to Lowest)**

Motif ID: [UP00065](#)  
Motif name: Zfp161\_secondary  
Species: Mus musculus

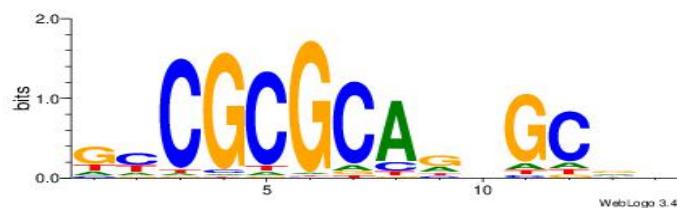
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.00535423

Alignment:

```
VVGCVMTGCGCGKC
-VVCGCKSCGBB--
```

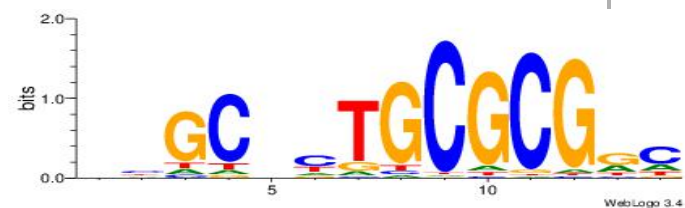
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



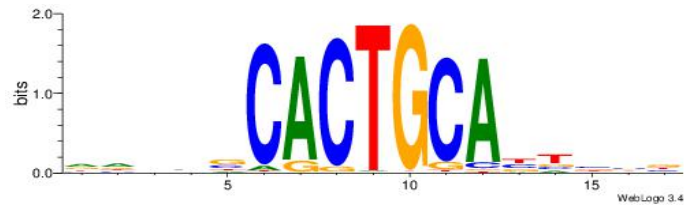
Motif ID:	<a href="#">UP00031</a>
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0059848

Alignment:

DDBBBCACTGCABTBBB  
---VVCGCKSCGBB---

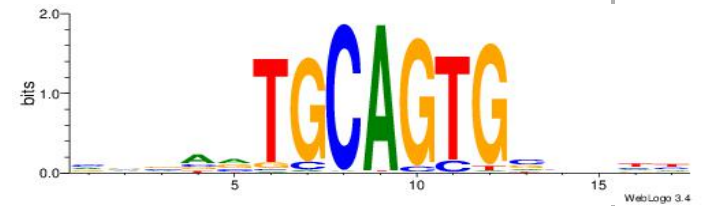
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVD



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Motif ID: [UP00001](#)  
Motif name: E2F2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.00957065

Alignment:

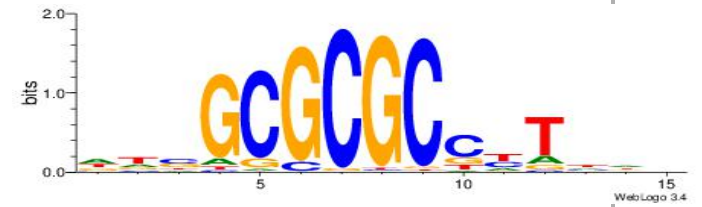
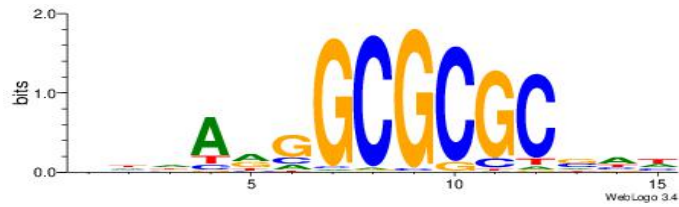
HHVCGCGCCKTDHB  
--VVCGCKSCGBB--

Original motif

Consensus sequence: VHDARGGCGCGCVHH

Reverse complement motif

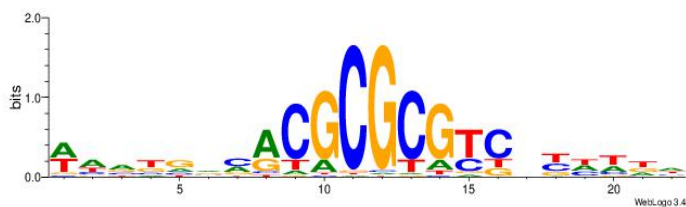
Consensus sequence: HHVCGCGCCKTDHB



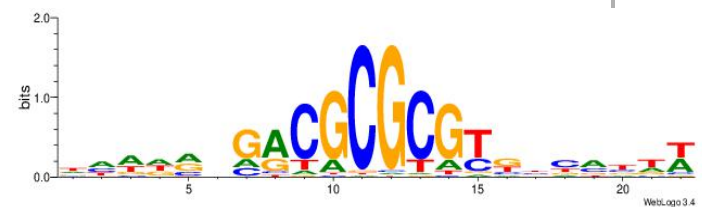
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0108446

Alignment:  
 WHVBVVMACGCGCGTCDYHWDH  
 -----VVCGCKSCGBB----

Original motif  
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif  
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00002](#)



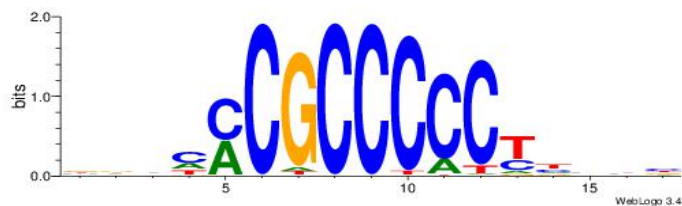
Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0132848

**Alignment:**

BVVHAGGGGGCGRDHHB  
 ---BBCGSRGCGVV---

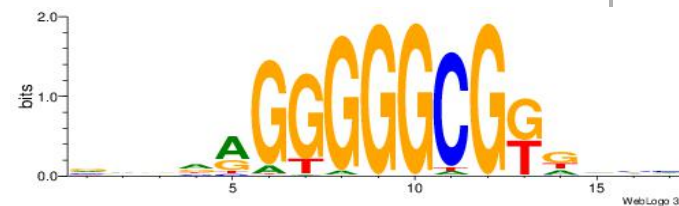
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB




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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: Backward  
 Position number: 6  
 Number of overlap: 11

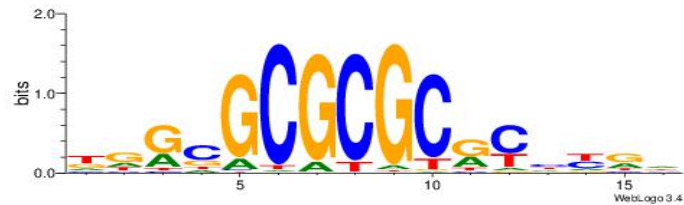
Similarity score: 0.0147384

Alignment:

DMMDGMGCGCGCHD  
BBCGSRGCGVV-----

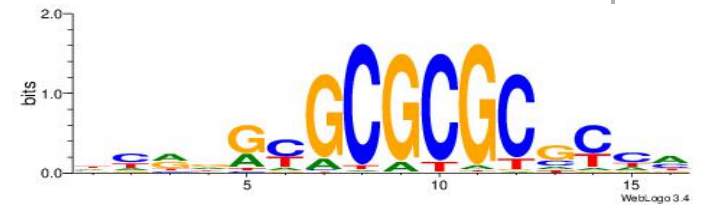
Original motif

Consensus sequence: DDGCGCGCGRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCHD



Motif ID: [UP00003](#)  
Motif name: E2F3\_secondary  
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: 0.0150252

Alignment:

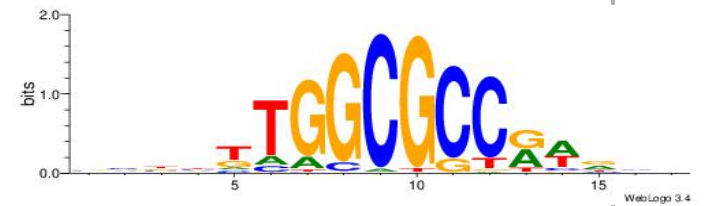
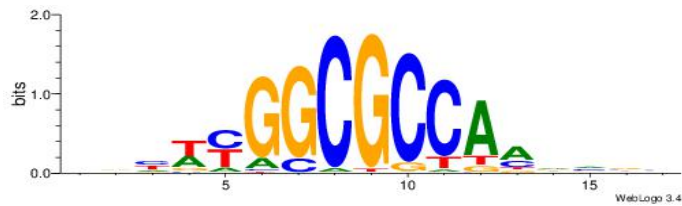
HBHWYGGCGCCAMDVBB  
BBCGSRGCGVV-----

Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB

Reverse complement motif

Consensus sequence: BBBDYTGCGCCKWDBD



Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0152603

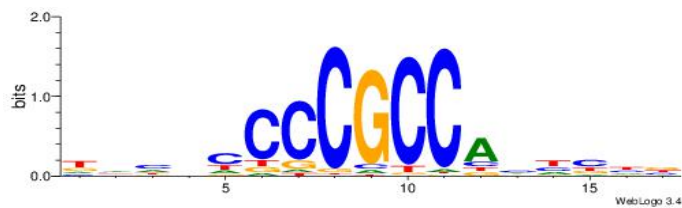
**Alignment:**

```

BHBHDTGGCGGGBDHD
-BBCGSRGCGVV-----
  
```

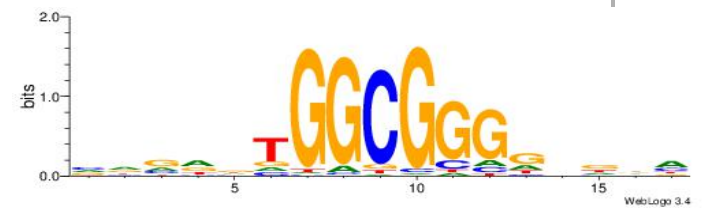
**Original motif**

Consensus sequence: DHHBCCCCGCCAHHBHB



**Reverse complement motif**

Consensus sequence: BHBHDTGGCGGGBDHD



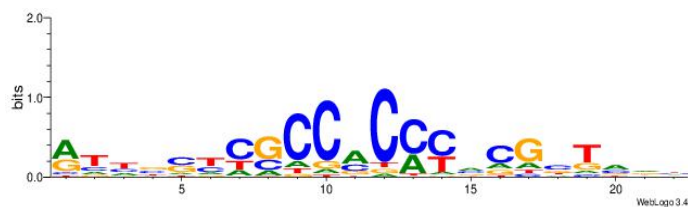
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0154216

**Alignment:**

HDBABCGBKRGYGGCGMSBHAK  
 -----BBCGSRGCGVV-----

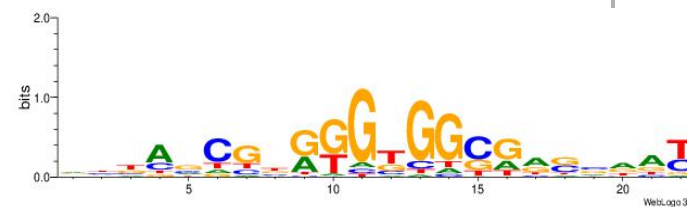
**Original motif**

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



**Reverse complement motif**

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6

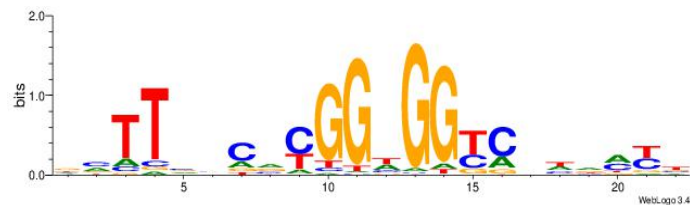
Number of overlap: 11  
Similarity score: 0.0155003

Alignment:

VMYDHDGMCCCHCCKBGVVAHVH  
-----VVCGCKSCGBB-----

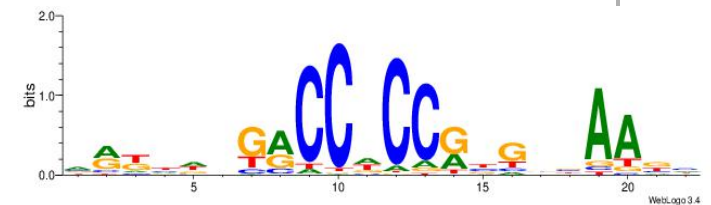
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

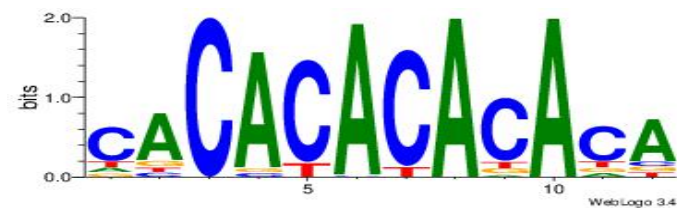
Consensus sequence: VMYDHDGMCCCHCCKBGVVAHVH



**Dataset #: 4      Motif ID: 95      Motif name: CACACACACACA**

Original motif

Consensus sequence: CACACACACACA



Reverse complement motif

Consensus sequence: TGTGTGTGTGTG



**Best Matches for Motif ID 95 (Highest to Lowest)**

Motif ID: [UP00042](#)  
Motif name: Gm397\_second  
Species: Mus musculus

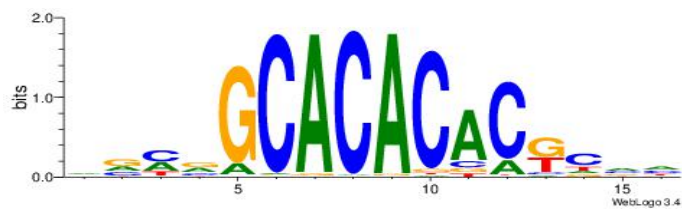
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0

Alignment:

```
HBGYGTGTGTGCVRVD
-TGTGTGTGTGTG---
```

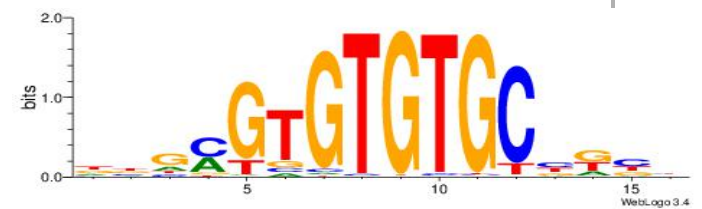
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



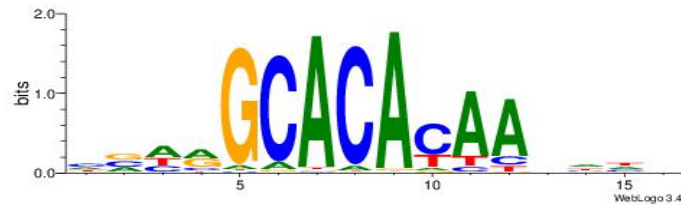
Motif ID:	<a href="#">UP00026</a>
Motif name:	Zscan4_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0197643

Alignment:

BHHHTTGTGTGCKHVD  
---TGTGTGTGTGTG-

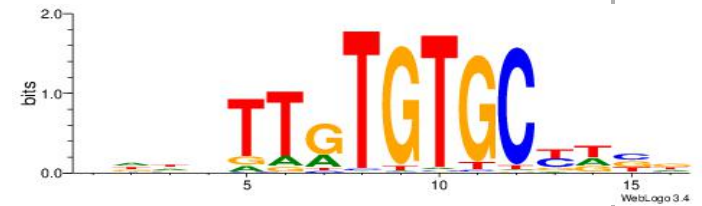
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



---

Motif ID: [UP00400](#)  
Motif name: Zif268  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.023637

Alignment:

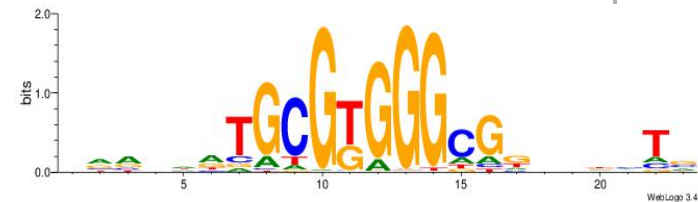
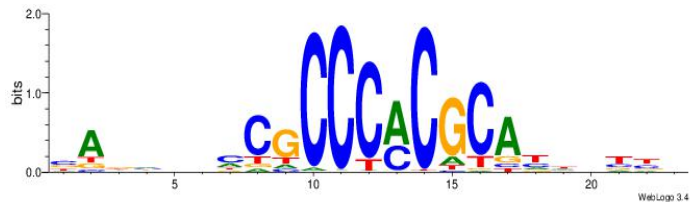
BADHBDHCGCCCMCGCAHHDBBV  
-----CACACACACACA-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHSVHTB

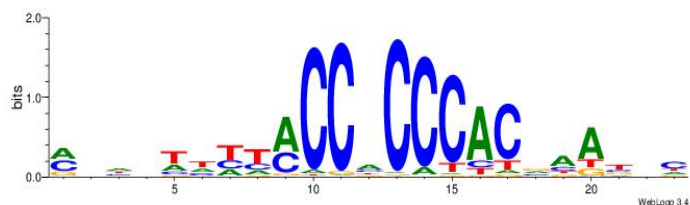


Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0276792

Alignment:  
 MHHHWHYTMCCCHCCCACVAABVH  
 -----CACACACACACA-

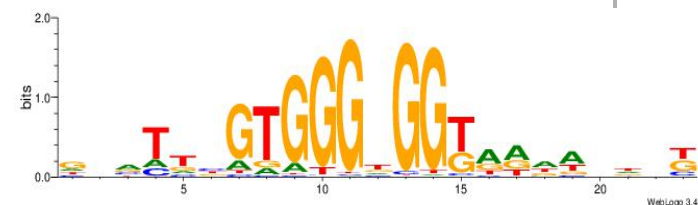
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00041](#)



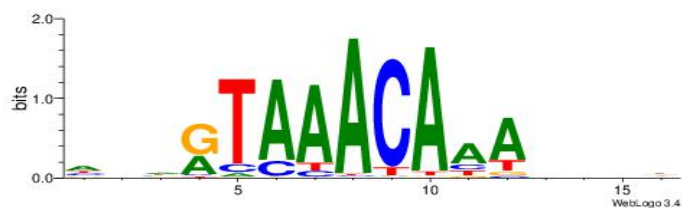
Motif name: Foxj1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0332664

Alignment:

HDHRTAAACAAAHDDD  
 --CACACACACACA--

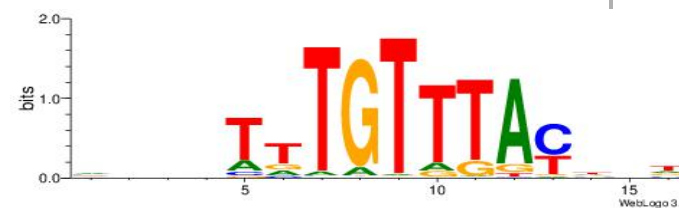
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH




---

Motif ID: [UP00101](#)  
 Motif name: Sox12\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 12

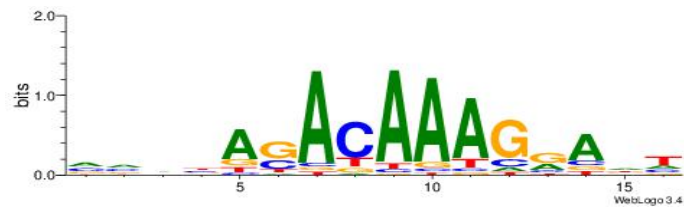
Similarity score: 0.0362338

Alignment:

VVDBASACAAAGRADH  
-CACACACACACA---

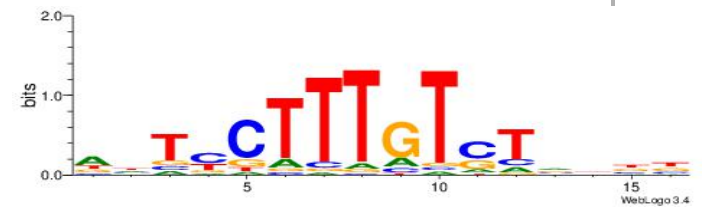
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID: [UP00014](#)  
Motif name: Sox17\_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: 12  
Similarity score: 0.0362641

Alignment:

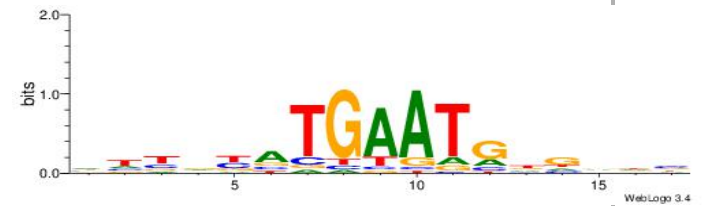
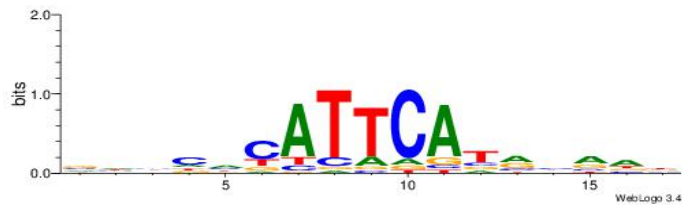
VHBHHCATTCATRVDD  
---CACACACACA--

Original motif

Consensus sequence: VHBHHCATTCATRVDD

Reverse complement motif

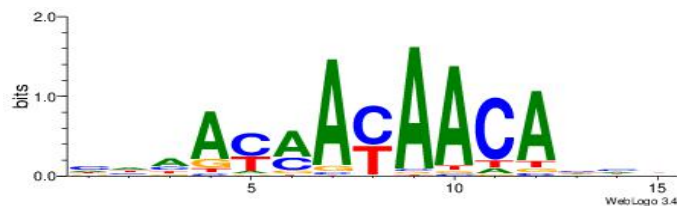
Consensus sequence: DDBDKATGAATGHDBHV



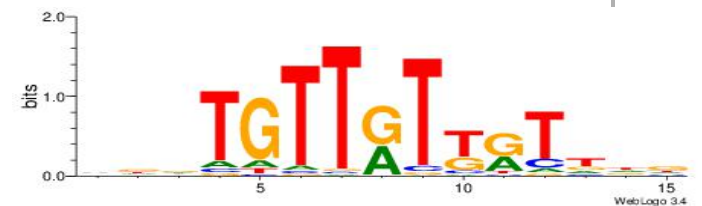
Motif ID: [UP00025](#)  
 Motif name: Foxk1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0366937

Alignment:  
 HDDTGTTKTTKTHHD  
 -TGTGTGTGTGTG--

Original motif  
 Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif  
 Consensus sequence: HDDTGTTKTTKTHHD



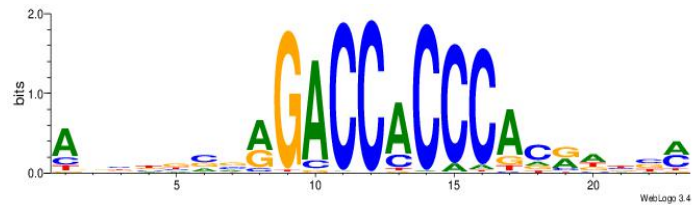
Motif ID: [UP00540](#)

Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 12  
 Similarity score: 0.0367676

Alignment:  
 ABBBBVVRGACCACCCACRDBBM  
 -----CACACACACACA

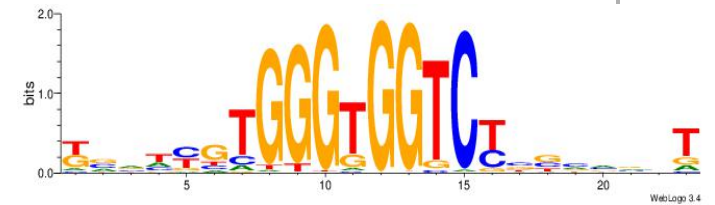
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



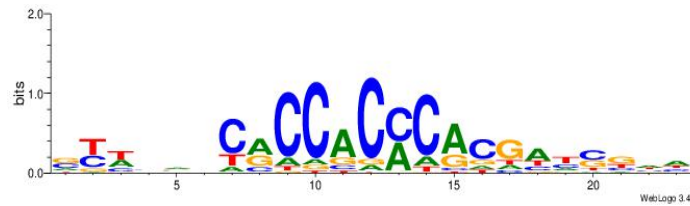
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 10  
 Number of overlap: 12  
 Similarity score: 0.0370972

Alignment:

VYWVVHCRCCACMCACGAHSBHH  
-----CACACACACA--

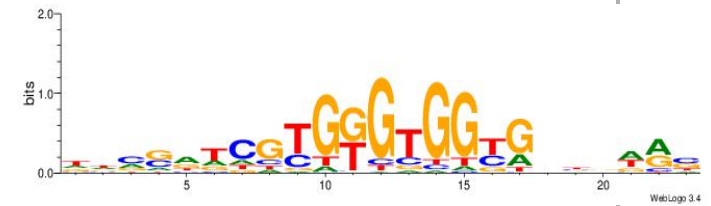
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGBVWMV



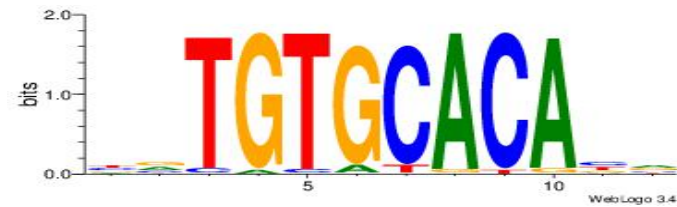
**Dataset #: 4**

**Motif ID: 96**

**Motif name: yrTGTGCACAr**

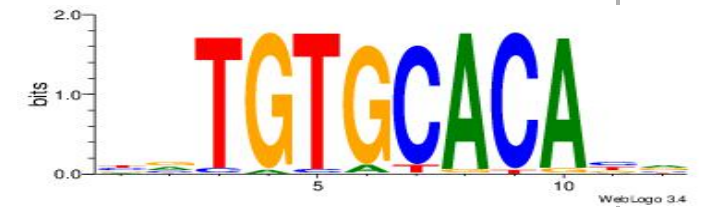
Original motif

Consensus sequence: BVTGTGCACABV



Reverse complement motif

Consensus sequence: BBTGTGCACAVV



### Best Matches for Motif ID 96 (Highest to Lowest)

Motif ID:	<a href="#">UP00026</a>
Motif name:	Zscan4_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: 12  
Similarity score: 0

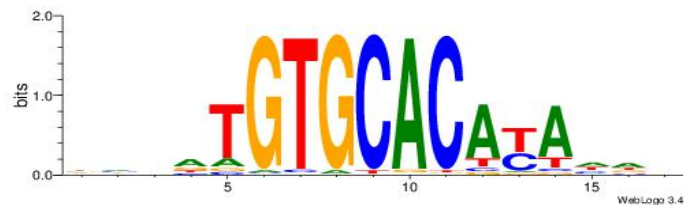
Alignment:

DHVDTGTGCACAYAHDH

--BVTGTGCACABV----

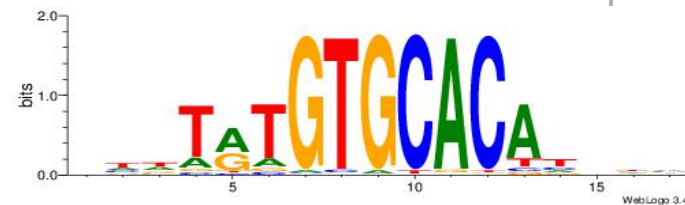
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



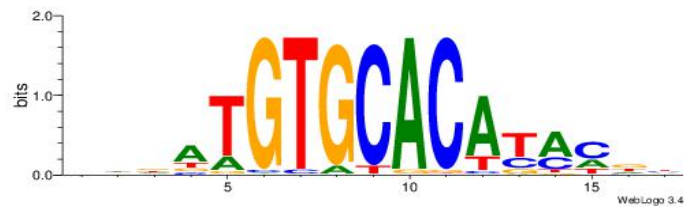
Motif ID: [UP00042](#)  
Motif name: Gm397\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 12  
Similarity score: 0.00445496

Alignment:

HHDATGTGCACATAMDH  
--BVTGTGCACABV----

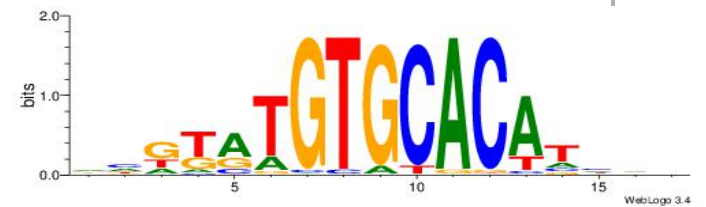
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



Motif ID: [UP00097](#)  
Motif name: Mtf1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0380495

Alignment:

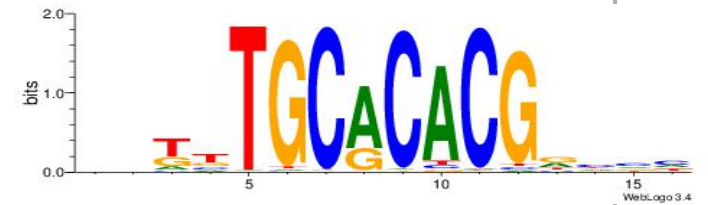
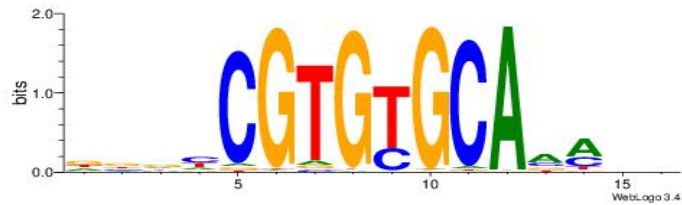
HDYTTGCACACGDHBH  
BVTGTGCACABV----

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH

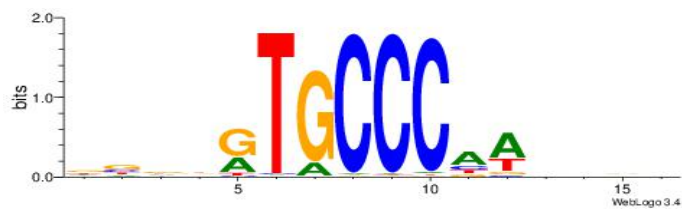


Motif ID: [UP00035](#)  
 Motif name: Hic1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0430853

Alignment:  
 VHHDWTGGGCAMDHBH  
 ---BBTGTGCACAVV-

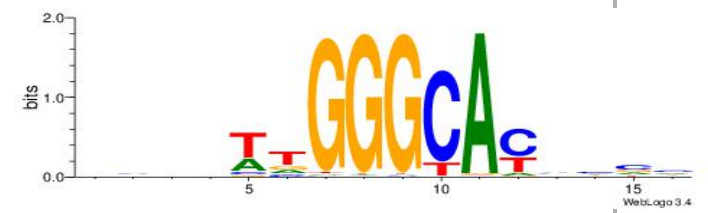
Original motif

Consensus sequence: DBDDRTGCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Motif ID: [UP00211](#)



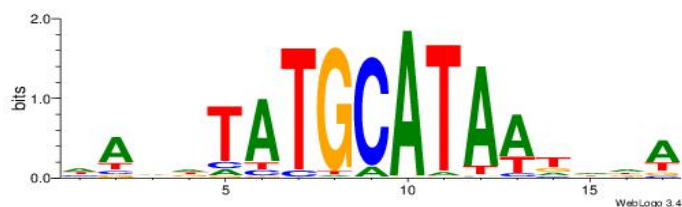
Motif name: Pou3f3  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.0445124

Alignment:

HADDTATGCATAATDDA  
--BBTGTGCACAVV---

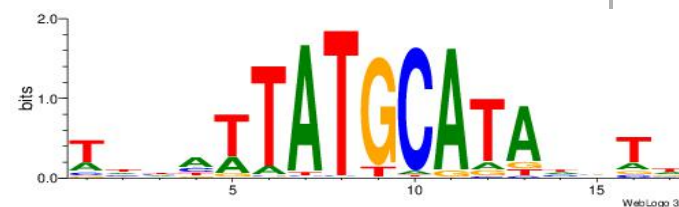
Original motif

Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH



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Motif ID: [UP00191](#)  
Motif name: Pou2f2  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 12

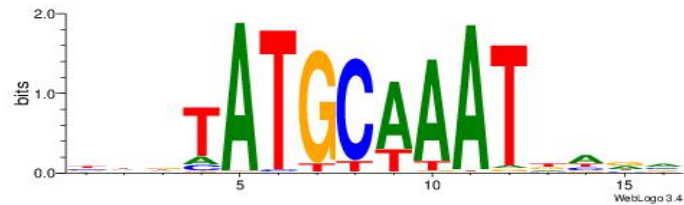
Similarity score: 0.0458169

Alignment:

BHDTATGCAAATDHDV  
-BVTGTGCACABV---

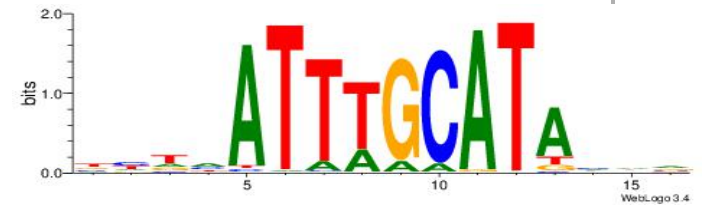
Original motif

Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



Motif ID: [UP00179](#)  
Motif name: Pou2f3  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.0465664

Alignment:

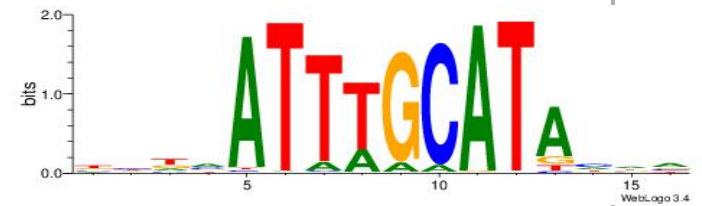
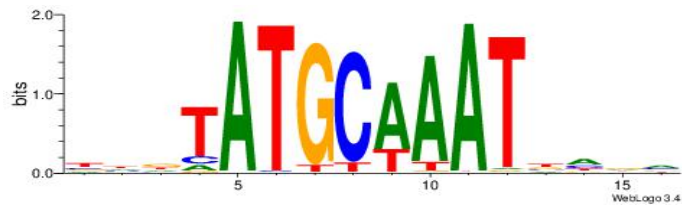
BHDTATGCAAATBHDV  
-BVTGTGCACABV---

Original motif

Consensus sequence: BHDTATGCAAATBHDV

Reverse complement motif

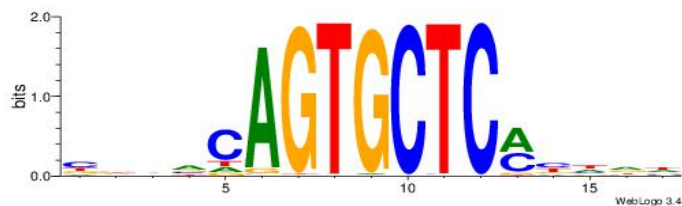
Consensus sequence: BHHDATTTGCATAHHV



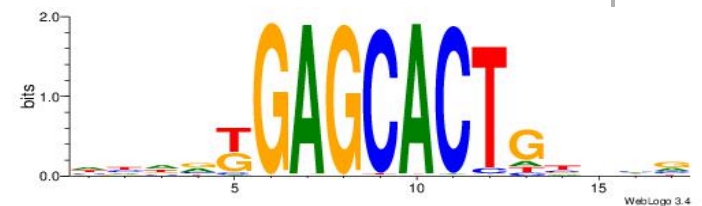
Motif ID: [UP00095](#)  
 Motif name: Zfp691\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0474879

Alignment:  
 DDHBYGAGCACTGBHBB  
 --BBTGTGCACAVV---

Original motif  
 Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif  
 Consensus sequence: DDHBYGAGCACTGBHBB



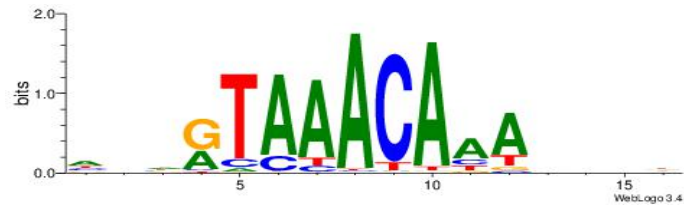
Motif ID: [UP00041](#)

Motif name: Foxj1\_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: 12  
 Similarity score: 0.0571018

Alignment:  
 DDDHTTTGTTTAMHDH  
 ----BBTGTGCACAVV

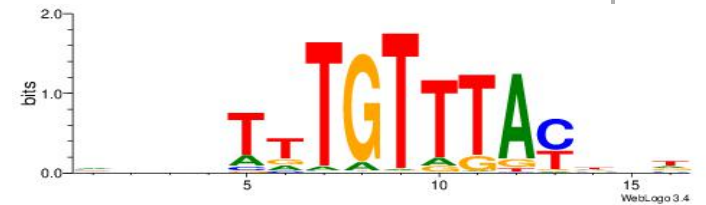
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



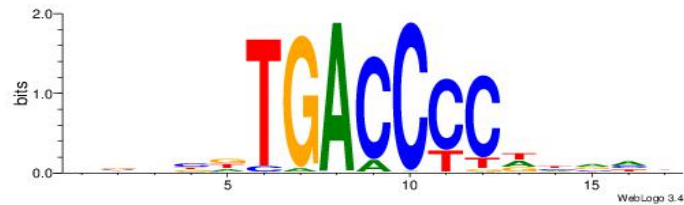
Motif ID: [UP00053](#)  
 Motif name: Rxra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0586299

Alignment:

```
DBHBDTGACCCCDHVHB  
---BVTGTGCACABV---
```

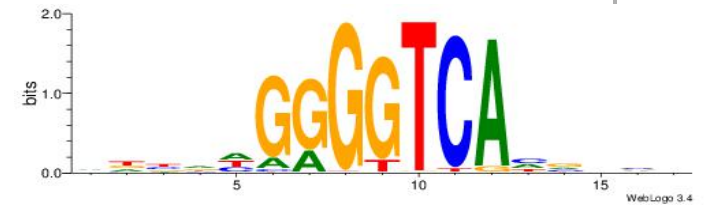
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



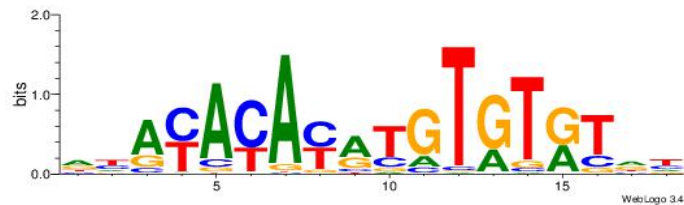
**Dataset #: 4**

**Motif ID: 97**

**Motif name: ryayAyAyrTGTRTTry**

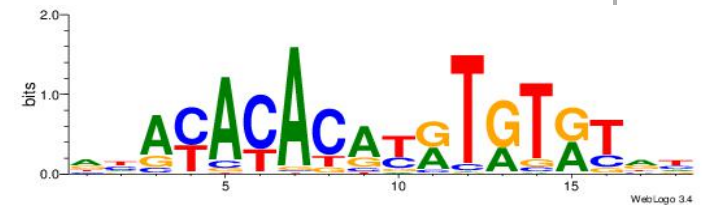
Original motif

Consensus sequence: DHAYAYRTGTGTRTDH



Reverse complement motif

Consensus sequence: HDAMACACAkkTKTKTHD



### Best Matches for Motif ID 97 (Highest to Lowest)

Motif ID:	<a href="#">UP00526</a>
Motif name:	Foxn1_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: 18  
Similarity score: 0.042217

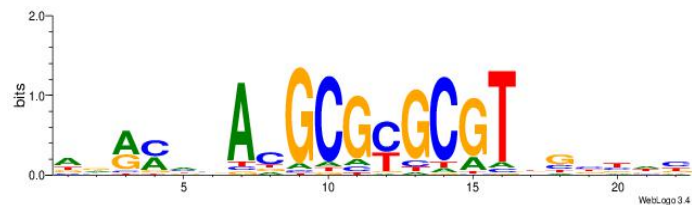
Alignment:

DDRMHBACGCGYCGTDGBBDB

--DHAYAYAYRTGTGTRTDH--

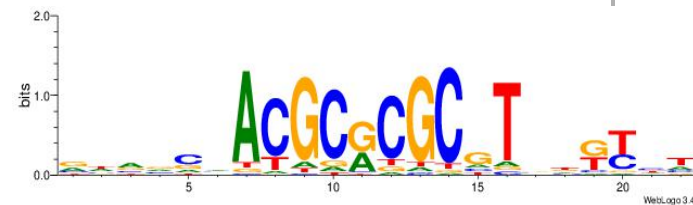
Original motif

Consensus sequence: DDRMHBACGCGYCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



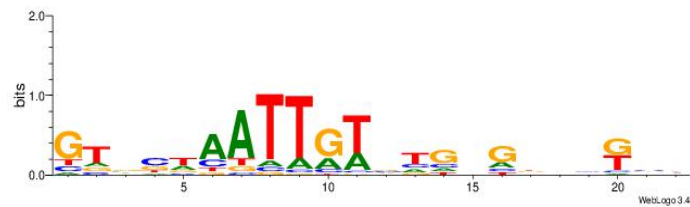
Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 18  
Similarity score: 0.0528977

Alignment:

GTVBDAATTGTVTGHGDDHKVB  
-DHAYAYAYRTGTGTRTDH---

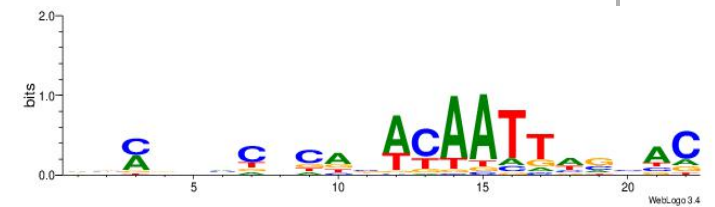
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 18  
Similarity score: 0.0539618

Alignment:

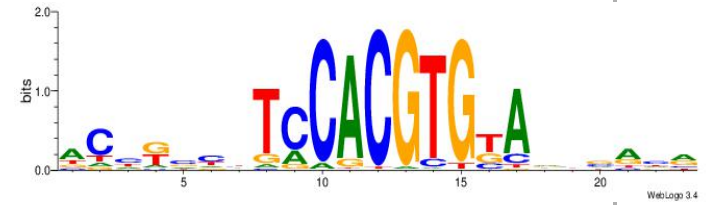
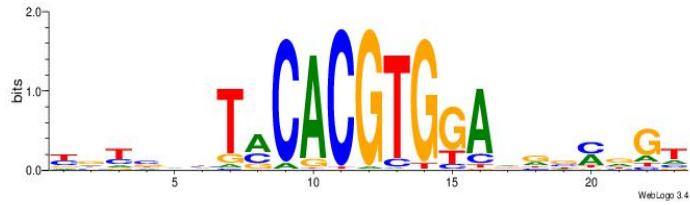
YDYBDHTMCACGTGGADDBMDGT  
-DHAYAYAYRTGTGTRTDH----

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

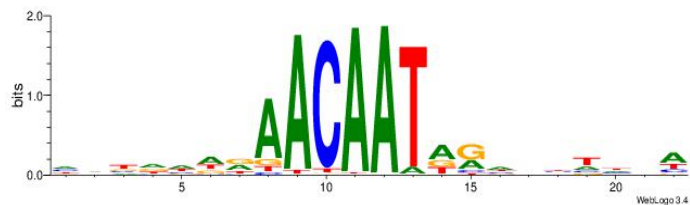
Consensus sequence: ACHRBDHTCCACGTGYAHHBMHM



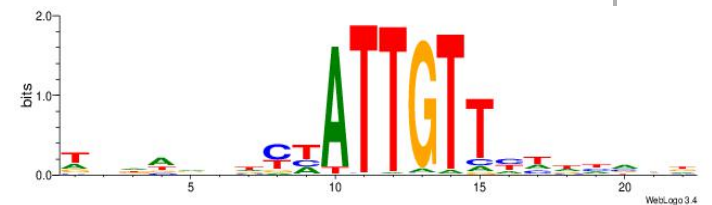
Motif ID: [UP00034](#)  
 Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 18  
 Similarity score: 0.0559027

Alignment:  
 WBHHHHHMDATTGTTDHDVHH  
 HDAMACACAKKTKTKTHD----

Original motif  
 Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif  
 Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00526](#)



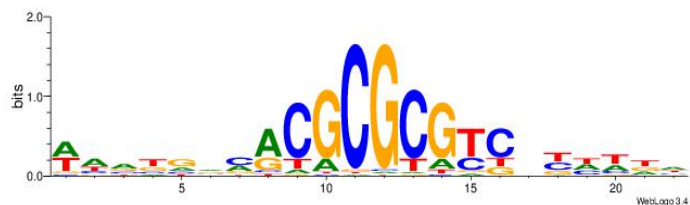
Motif name: Foxn1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 18  
 Similarity score: 0.0570339

**Alignment:**

WHVBVVMACGCGCGTCDYHWDH  
 ---HDAMACACAKKTKTKTHD-

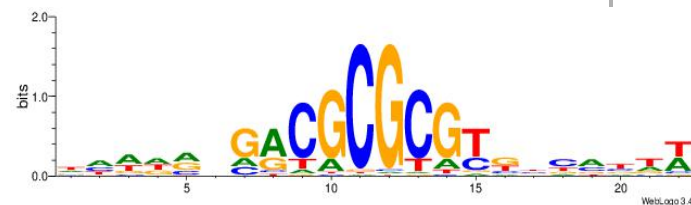
**Original motif**

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



**Reverse complement motif**

Consensus sequence: HDWHMHGACGCGGTRBVVBHW




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Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 18

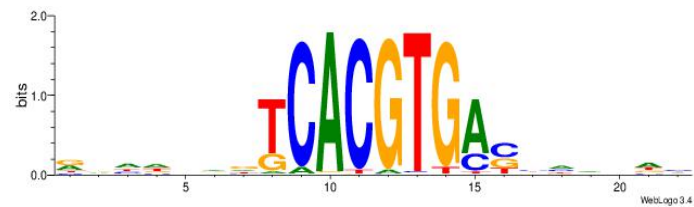
Similarity score: 0.0603429

Alignment:

DDHBHBSTCACGTGAHBBDHMM  
---DHAYAYAYRTGTGTRTDH-

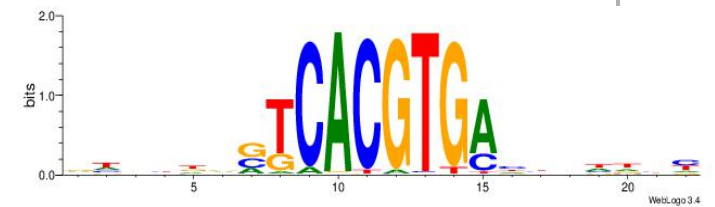
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMM



Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 18  
Similarity score: 0.0610325

Alignment:

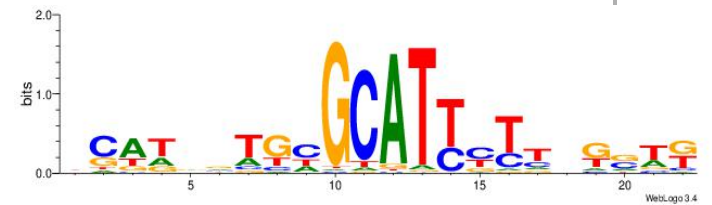
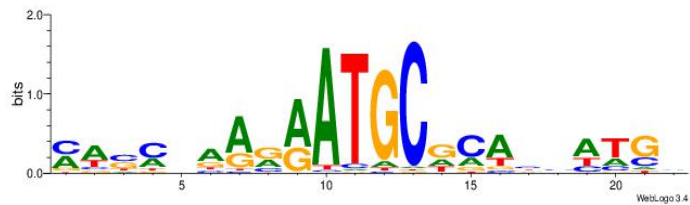
DCATDBTGHGCATKMTTBRSWR  
---HDAMACACAkkTKTKTHD-

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

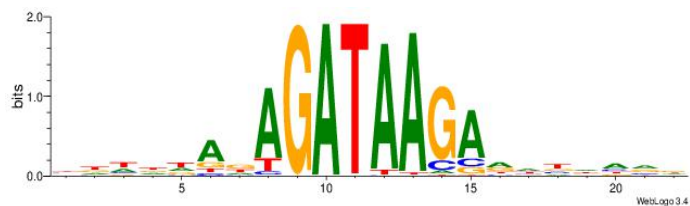
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



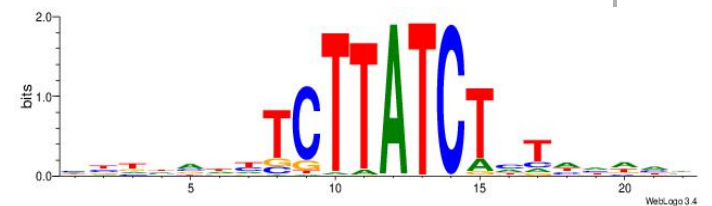
Motif ID: [UP00032](#)  
 Motif name: Gata3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 18  
 Similarity score: 0.0616079

Alignment:  
 BDHDDADAGATAAGADHBDHVD  
 ---DHAYAYAYRTGTGTRTDH-

Original motif  
 Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif  
 Consensus sequence: HBHDVHDTCTTATCTHTDDHVD



Motif ID: [UP00527](#)

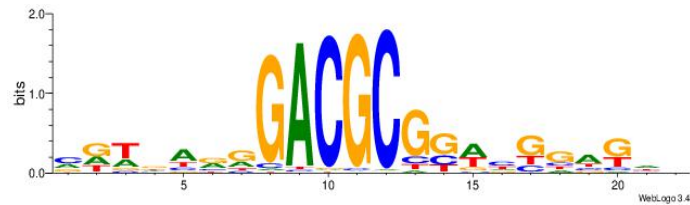
Motif name: Foxn4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 18  
 Similarity score: 0.0623545

**Alignment:**

VHYTCCDWCCGCGTCMMTHWHV  
 ----HDAMACACAKKTKTKTHD

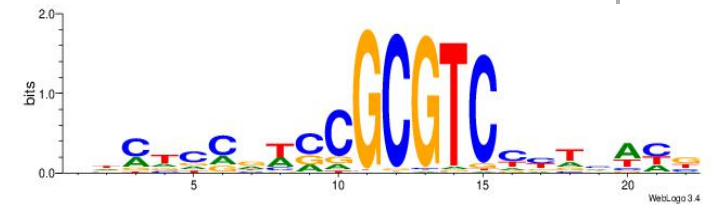
**Original motif**

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



**Reverse complement motif**

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



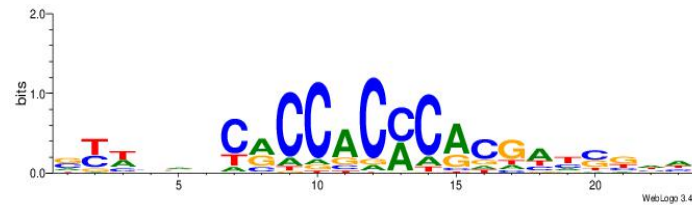
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 18  
 Similarity score: 0.0633883

Alignment:

VYWVVHCRCCACMCACGAHSBHH  
----HDAMACACAKKTKTKTHD-

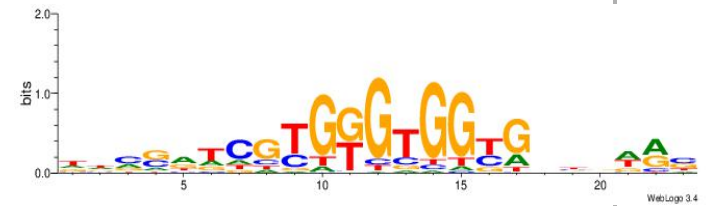
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGBVWMV



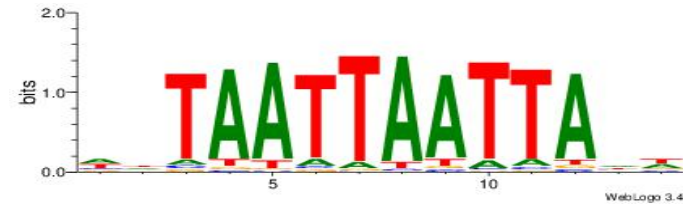
**Dataset #: 4**

**Motif ID: 98**

**Motif name: wwTAATTAATTaww**

Original motif

Consensus sequence: HDTAATTAATTAHD



Reverse complement motif

Consensus sequence: DHTAATTAATTADH



**Best Matches for Motif ID 98 (Highest to Lowest)**

Motif ID:	<a href="#">UP00158</a>
Motif name:	Pou1f1
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

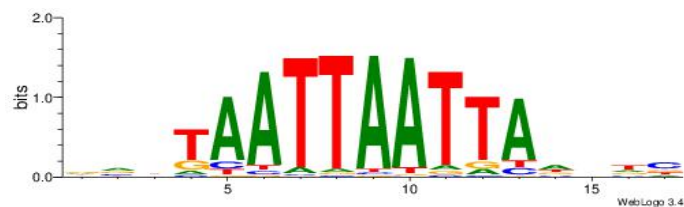
Alignment:

DVDTAATTAATTADDDDB

-DHTAATTAATTADH--

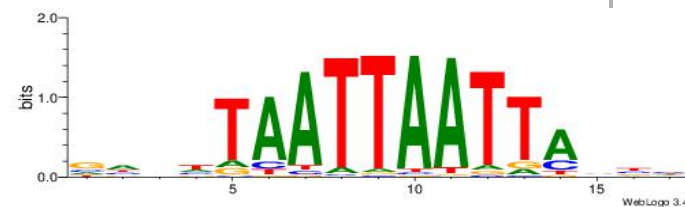
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



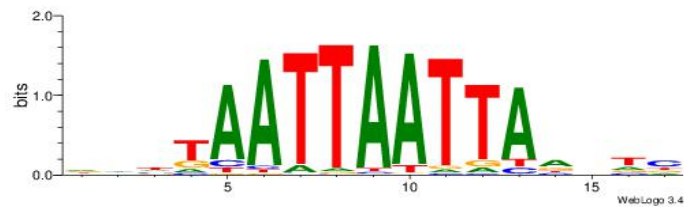
Motif ID: [UP00105](#)  
Motif name: Pou3f4  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.00131133

Alignment:

BDDDTAATTAATTAHBD  
--HDTAATTAATTAHD-

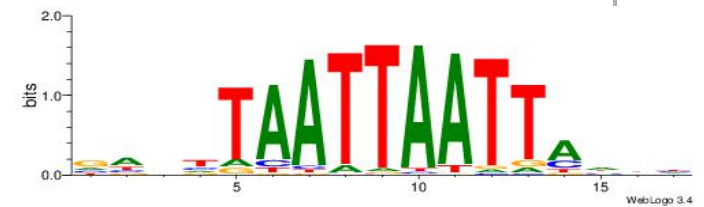
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



Motif ID: [UP00129](#)  
Motif name: Pou3f1  
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: 0.00682649

Alignment:

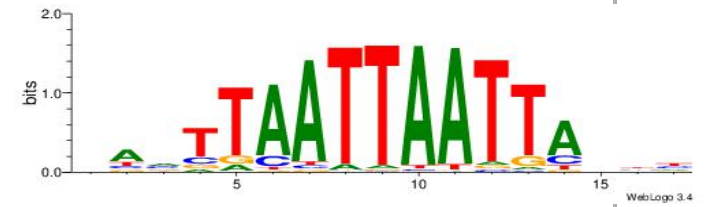
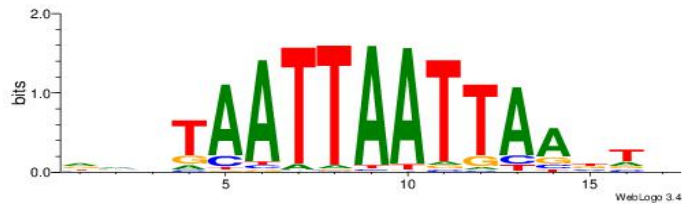
DVBTAATTAATTAABTH  
-DHTAATTAATTADH--

Original motif

Consensus sequence: DVBTAATTAATTAABTH

Reverse complement motif

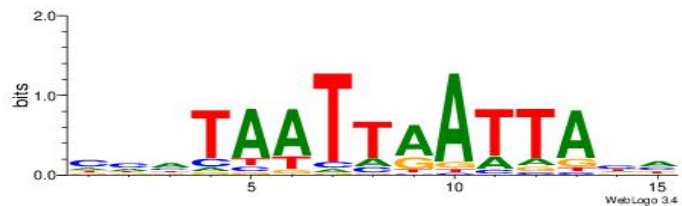
Consensus sequence: DAVTTAATTAATTAABVD



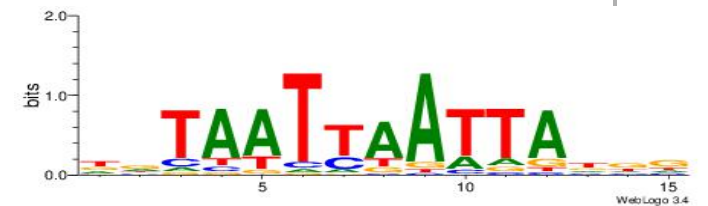
Motif ID: [UP00225](#)  
 Motif name: Hlx1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0167227

Alignment:  
 HDTAATTAATTAHDD  
 HDTAATTAATTAHD-

Original motif  
 Consensus sequence: HHHTAATTAATTAHH



Reverse complement motif  
 Consensus sequence: HDTAATTAATTAHDD



Motif ID: [UP00200](#)

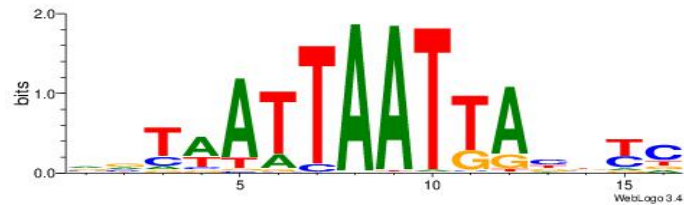


Motif name: Nkx6-1\_2825.2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0194509

Alignment:  
 GMBTAATTAATWAVB  
 DHTAATTAATTADH--

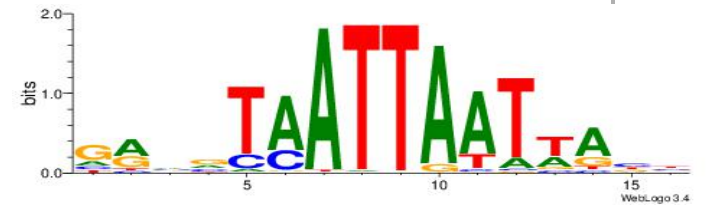
Original motif

Consensus sequence: VVTWATTAATTABBYC



Reverse complement motif

Consensus sequence: GMBTAATTAATWAVB



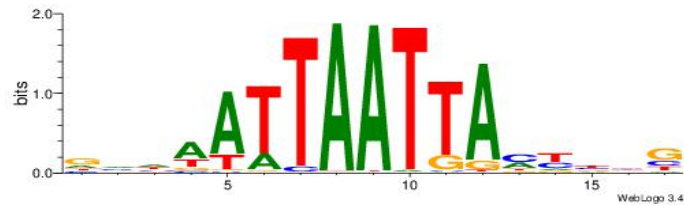
Motif ID: [UP00200](#)  
 Motif name: Nkx6-1\_2825.1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0231767

Alignment:

CBVMRTAATTAATTHBH  
---HDTAATTAATTAHD

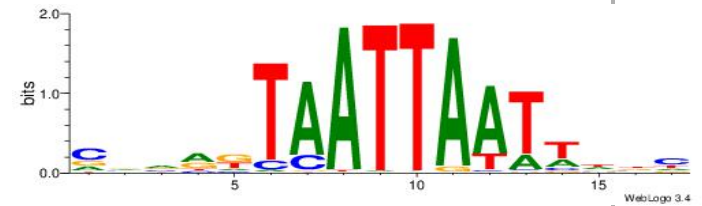
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



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Motif ID: [UP00252](#)  
Motif name: Hoxc5  
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: 14  
Similarity score: 0.0236159

Alignment:

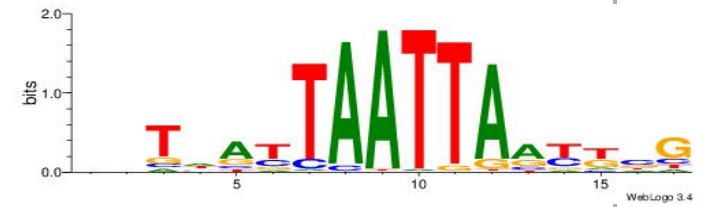
CVMRTTAATTAATHAHH  
HDTAATTAATTAHD---

Original motif

Consensus sequence: CVMRTTAATTAATHAHH

Reverse complement motif

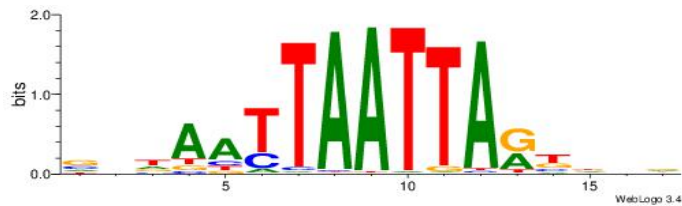
Consensus sequence: HDTHATTAATTAACYVG



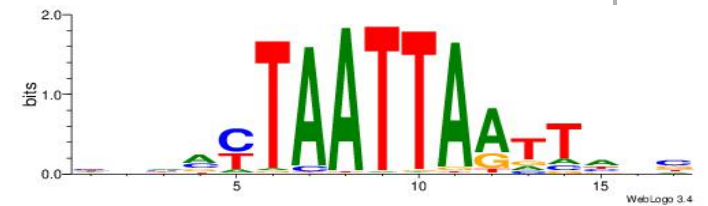
Motif ID: [UP00128](#)  
 Motif name: Pou3f2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0243768

Alignment:  
 HHDVMTAATTAATTDDV  
 DHTAATTAATTADH---

Original motif  
 Consensus sequence: VDDAATTAATTARBDHD



Reverse complement motif  
 Consensus sequence: HHDVMTAATTAATTDDV



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

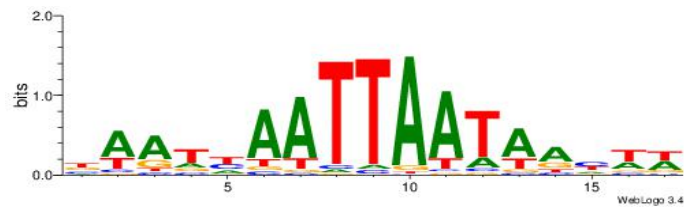
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.025633

Alignment:

WWDTTATTAATTHATTV  
 -HDTAATTAATTAHD--

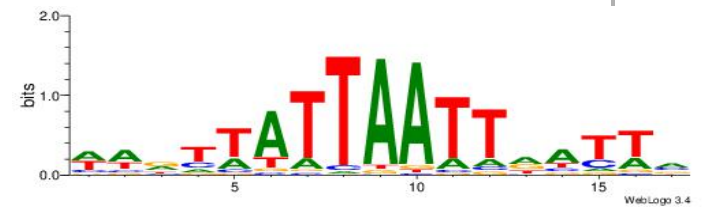
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV




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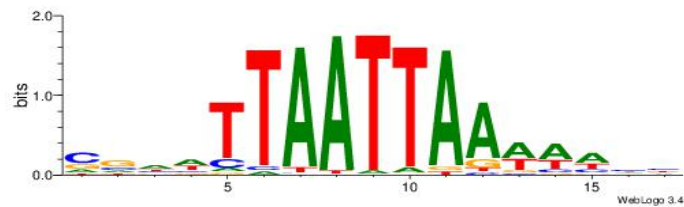
Motif ID: [UP00188](#)  
 Motif name: Lmx1a  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0267452

Alignment:

```
BDWWWTTAATTAHHVG  
HDTAATTAATTAHD---
```

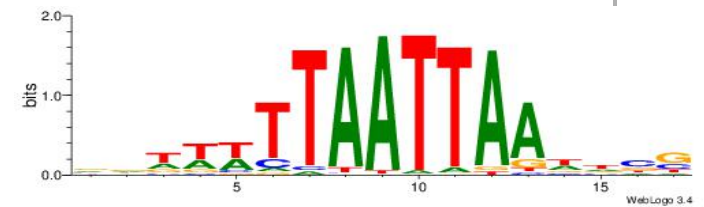
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWWTTAATTAHHVG



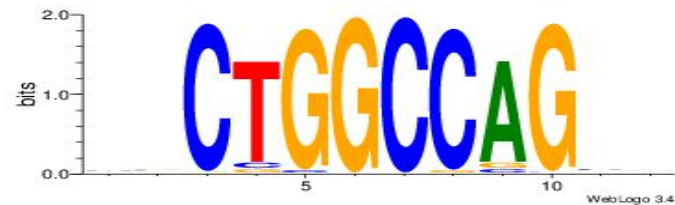
**Dataset #: 4**

**Motif ID: 99**

**Motif name: sgCTGGCCAGcs**

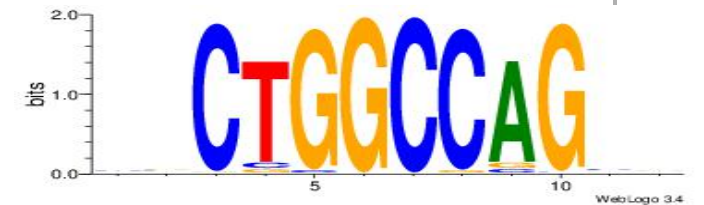
Original motif

Consensus sequence: BBCTGGCCAGVV



Reverse complement motif

Consensus sequence: VVCTGGCCAGBB



### Best Matches for Motif ID 99 (Highest to Lowest)

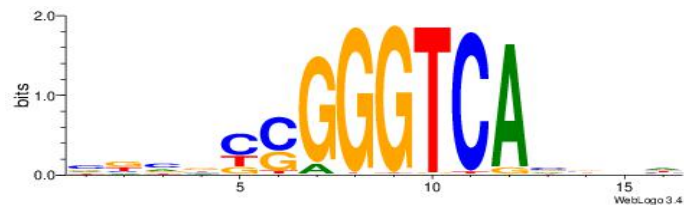
Motif ID:	<a href="#">UP00009</a>
Motif name:	Nr2f2_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Forward  
Position number: 2  
Number of overlap: 12  
Similarity score: 0.00474165

Alignment:  
HVBVTGACCCSGBVBV  
-VVCTGGCCAGBB---

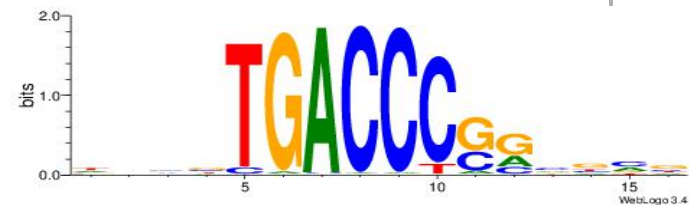
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



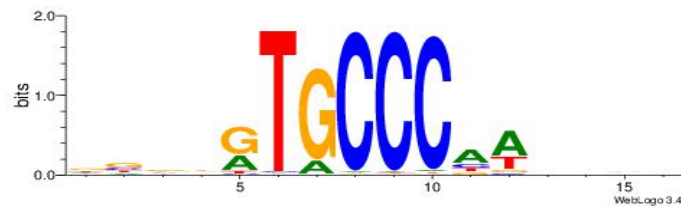
Motif ID: [UP00035](#)  
Motif name: Hic1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.0109352

Alignment:

DBDDRTGCCCAWDHDV  
--BBCTGGCCAGVV--

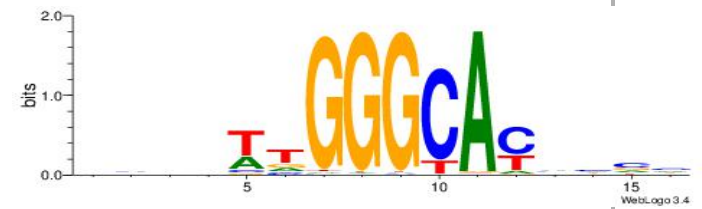
Original motif

Consensus sequence: DBDDRTGCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



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: 3  
Number of overlap: 12  
Similarity score: 0.0138613

Alignment:

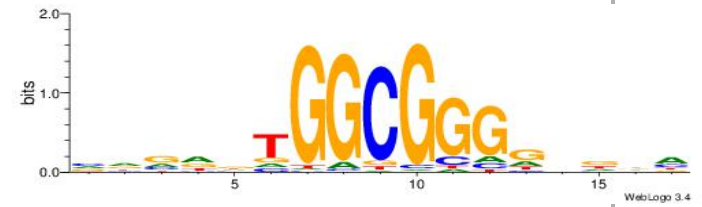
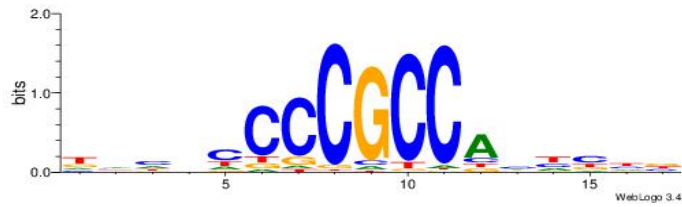
DHHBCCCCGCCAHHBHB  
---VVCTGGCCAGBB--

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD

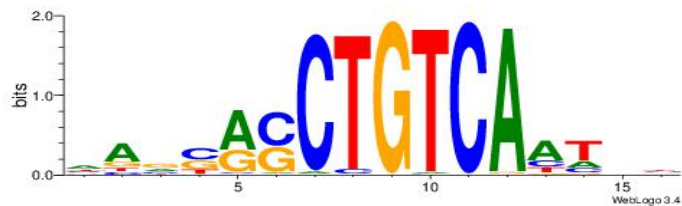


Motif ID: [UP00205](#)  
 Motif name: Pknox2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0145909

Alignment:  
 VHATTGACAGSKSVTH  
 VVCTGGCCAGBB----

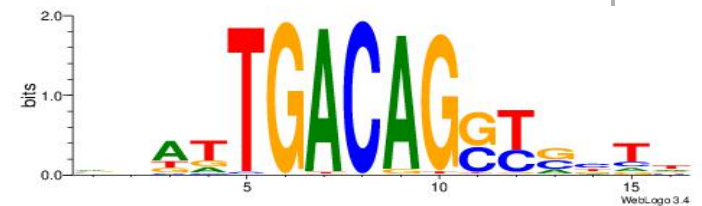
Original motif

Consensus sequence: HAVSRCTGTCAATHB



Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH



Motif ID: [UP00079](#)



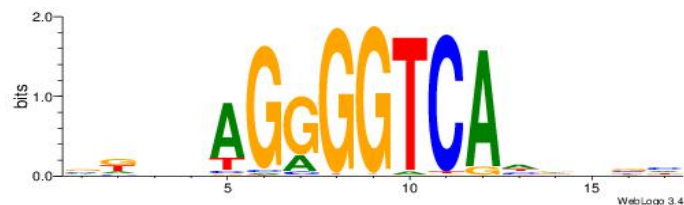
Motif name: Esrra\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0169376

**Alignment:**

DBBHHTGACCCCTBBYV  
 --VVCTGGCCAGBB---

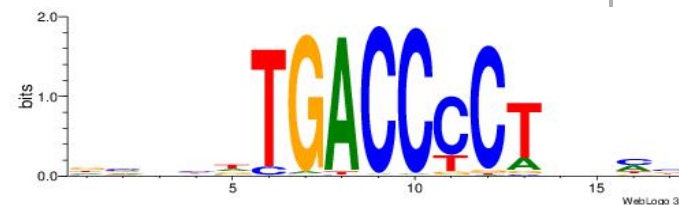
**Original motif**

Consensus sequence: VKBBAGGGGTCAHDBBH



**Reverse complement motif**

Consensus sequence: DBBHHTGACCCCTBBYV




---

Motif ID: [UP00000](#)  
 Motif name: Smad3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12

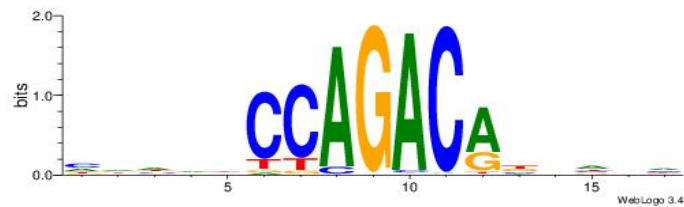
Similarity score: 0.0199919

Alignment:

HDHDDCCAGACABBHVH  
---BBCTGGCCAGVV--

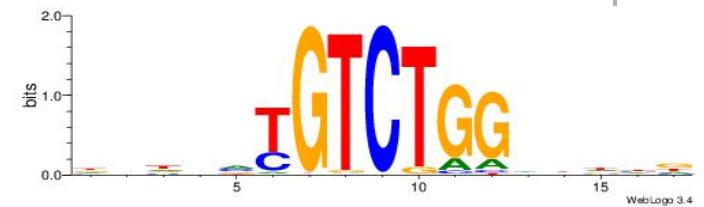
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID: [UP00203](#)  
Motif name: Pknox1  
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: 12  
Similarity score: 0.0212885

Alignment:

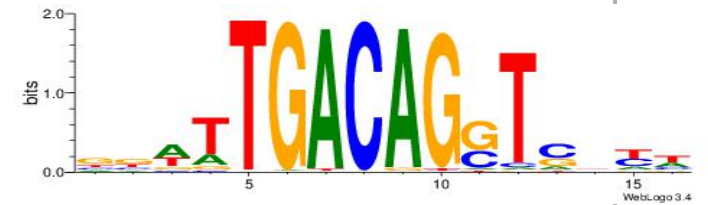
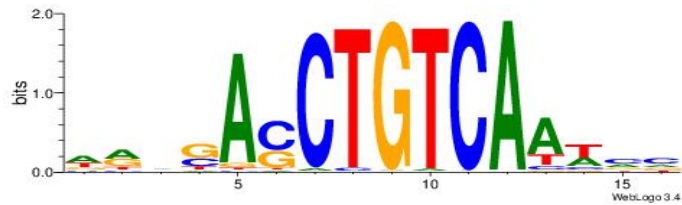
VVWTTGACAGSTSBKD  
VVCTGGCCAGBB----

Original motif

Consensus sequence: DRVSASCTGTCAAWV

Reverse complement motif

Consensus sequence: VVWTTGACAGSTSBKD

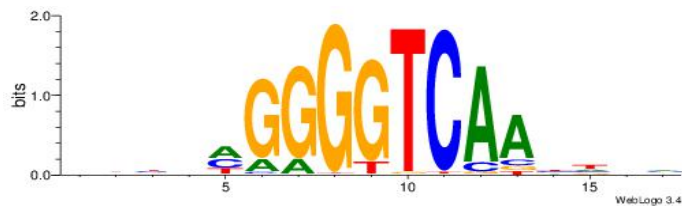


Motif ID: [UP00066](#)  
 Motif name: Hnf4a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.021656

Alignment:  
 BHHVTTGACCCCYVVDB  
 --BBCTGGCCAGVV---

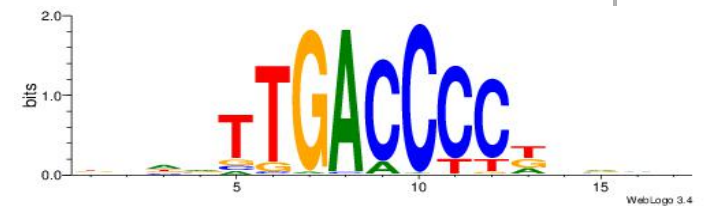
Original motif

Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVDB



Motif ID: [UP00053](#)

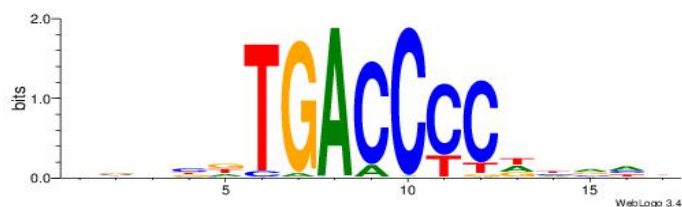
Motif name: Rxra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0218735

**Alignment:**

VHBHDGGGGTCAHBHBD  
 ---VVCTGGCCAGBB--

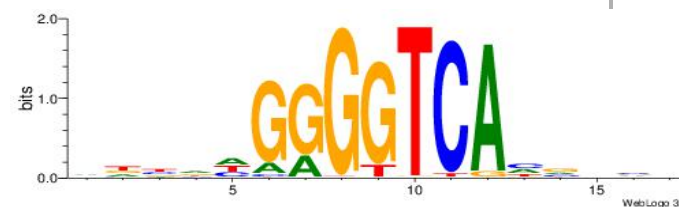
**Original motif**

Consensus sequence: DBHBDTGACCCDHVHB



**Reverse complement motif**

Consensus sequence: VHBHDGGGGTCAHBHBD




---

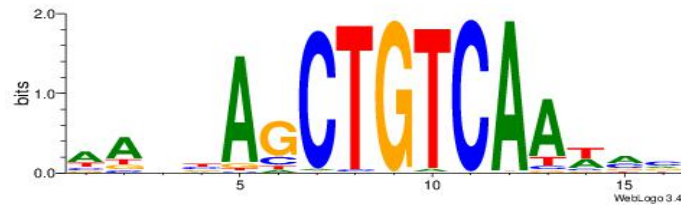
Motif ID: [UP00258](#)  
 Motif name: Tgif2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 12  
 Similarity score: 0.0219271

Alignment:

```
AABBAGCTGTCAAWVV  
----BBCTGGCCAGVV
```

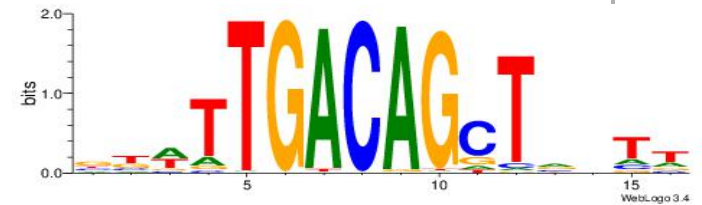
Original motif

Consensus sequence: AABBAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



**Dataset #: 4      Motif ID: 100      Motif name: wrTGTATACAw**

Original motif

Consensus sequence: HDTGTATACAHD



Reverse complement motif

Consensus sequence: DHTGTATACADH



### Best Matches for Motif ID 100 (Highest to Lowest)

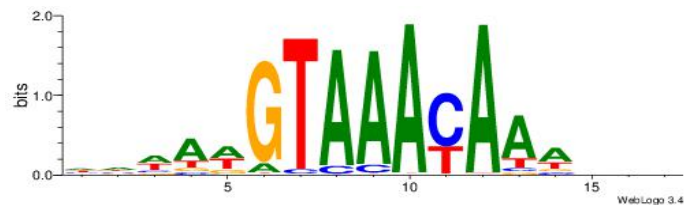
Motif ID:	<a href="#">UP00073</a>
Motif name:	Foxa2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Forward  
Position number: 4  
Number of overlap: 12  
Similarity score: 0.0132896

Alignment:  
BDVTTTKTTTACWTWHH  
---DHTGTATACADH---

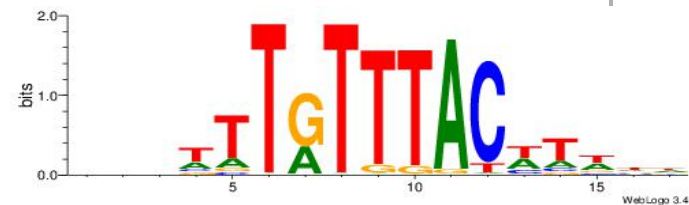
#### Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



#### Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



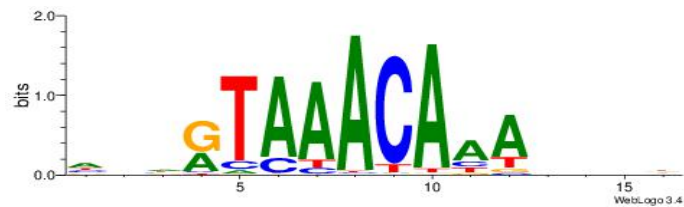
Motif ID: [UP00041](#)  
Motif name: Foxj1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0143028

Alignment:

DDDHTTTGTTTAMHDH  
----DHTGTATACADH

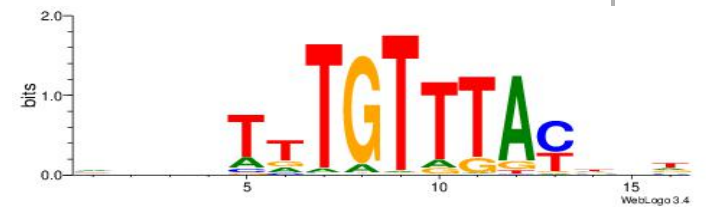
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



Motif ID: [UP00025](#)  
Motif name: Foxk1\_primary  
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: 12  
Similarity score: 0.0153751

Alignment:

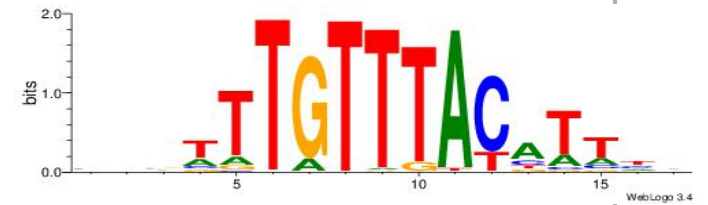
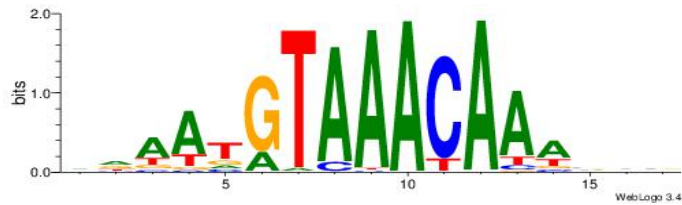
DDAATGTAAACAAAVVB  
--DHTGTATACADH---

Original motif

Consensus sequence: DDAATGTAAACAAAVVB

Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD

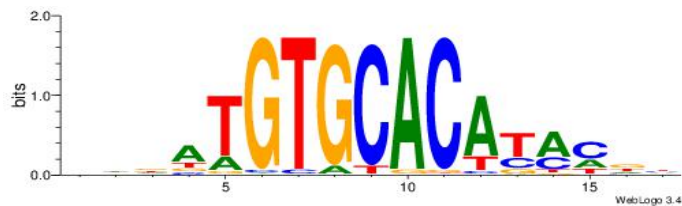


Motif ID: [UP00042](#)  
 Motif name: Gm397\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0176354

Alignment:  
 HHDATGTGCACATAMDH  
 --HDTGTATACAHD---

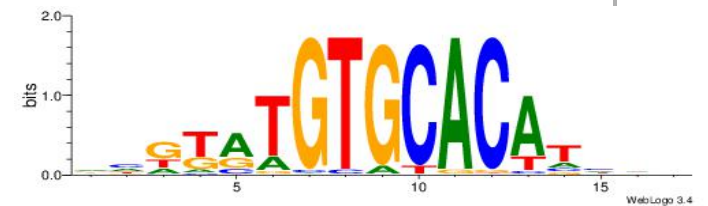
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



Motif ID: [UP00061](#)



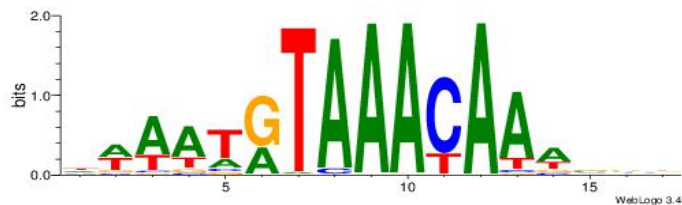
Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0182546

**Alignment:**

VVVWTTGTTTAMATTWD  
 ---HDTGTATACAHD--

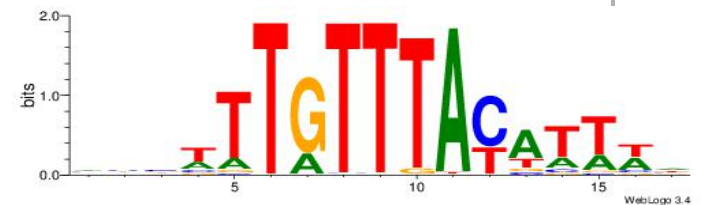
**Original motif**

Consensus sequence: DWAATR<sup>T</sup>AAACA<sup>A</sup>WVVB



**Reverse complement motif**

Consensus sequence: VVVWTTGTTTAMATTWD




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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: 12

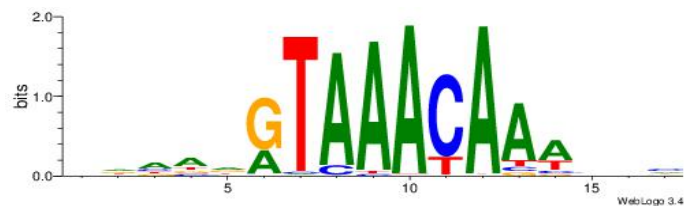
Similarity score: 0.0187495

Alignment:

```
HDHADGTAAACAAAVVH  
--HDTGTATACAHD---
```

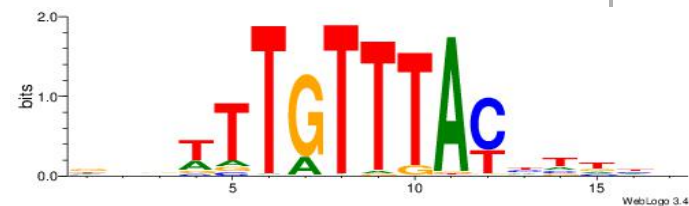
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00026](#)  
Motif name: Zscan4\_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: 12  
Similarity score: 0.0196417

Alignment:

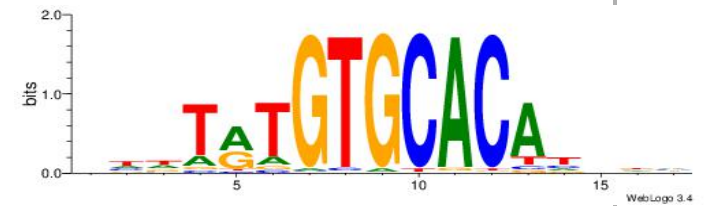
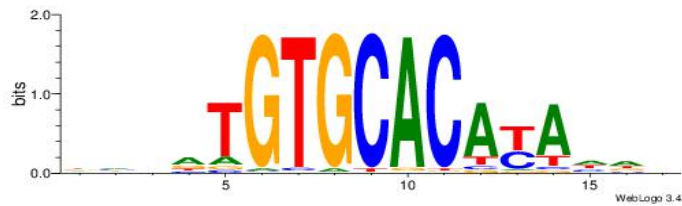
```
DHVDTGTGCACAYAHDH  
--HDTGTATACAHD---
```

Original motif

Consensus sequence: DHVDTGTGCACAYAHDH

Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



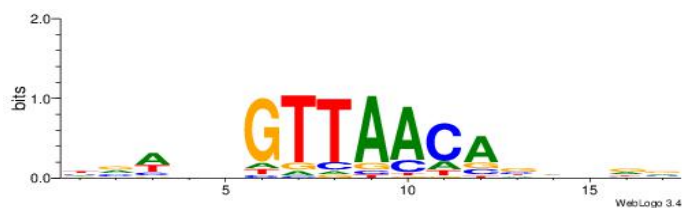
Motif ID: [UP00012](#)  
 Motif name: Bbx\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0265422

**Alignment:**

HVWHBGTTAACABHBDV  
 --DHTGTATACADH---

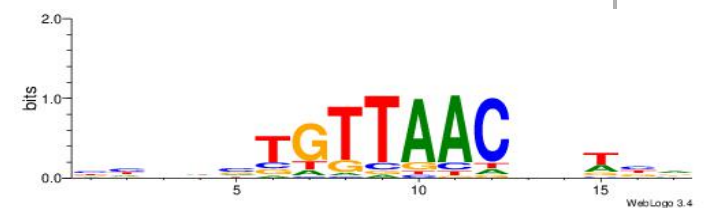
**Original motif**

Consensus sequence: HVWHBGTTAACABHBDV



**Reverse complement motif**

Consensus sequence: VHVHBTGTTAACVHWVH



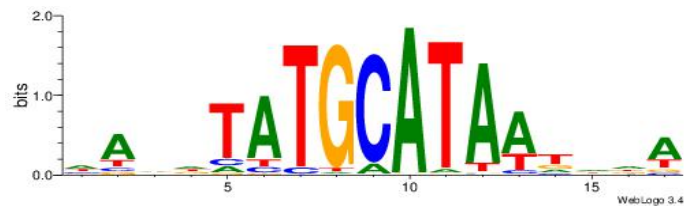
Motif ID: [UP00211](#)  
 Motif name: Pou3f3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0279898

**Alignment:**

TDDATTATGCATADDTH  
 -HDTGTATACAHD-----

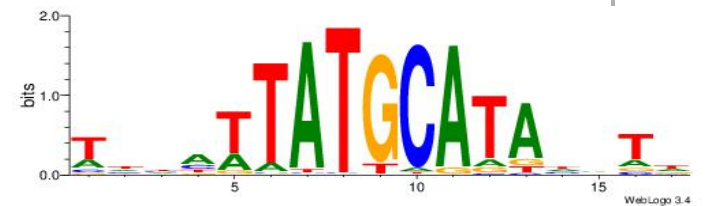
**Original motif**

Consensus sequence: HADDTATGCATAATDDA



**Reverse complement motif**

Consensus sequence: TDDATTATGCATADDTH

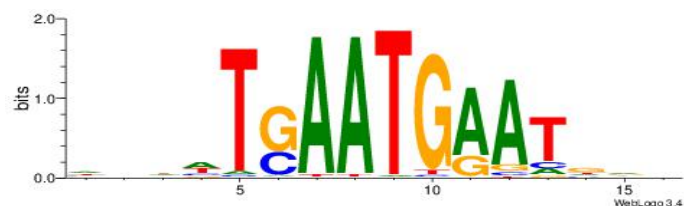


Motif ID: [UP00055](#)  
 Motif name: Hbp1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3

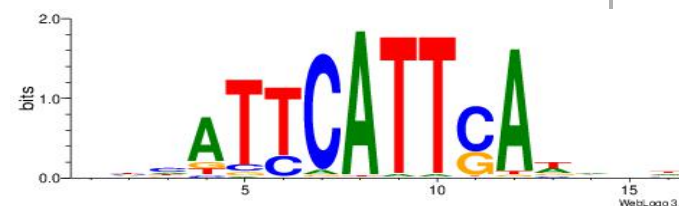
Number of overlap: 12  
Similarity score: 0.0282959

Alignment:  
VDHATTCATTSAWDDH  
--HDTGTATACAHD--

Original motif  
Consensus sequence: HHDWTSATGAATDDB

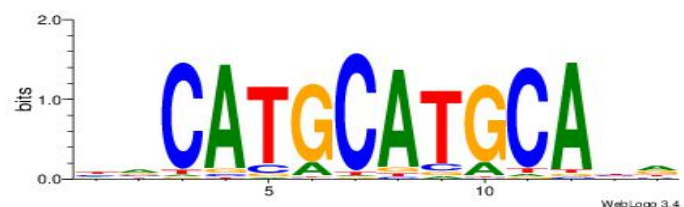


Reverse complement motif  
Consensus sequence: VDHATTCATTSAWDDH

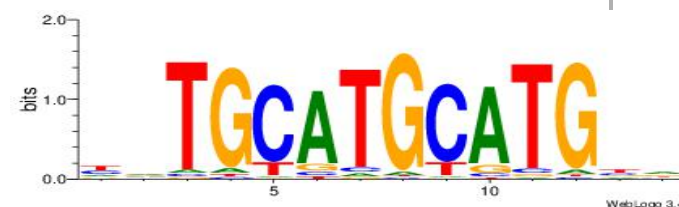


**Dataset #: 4      Motif ID: 101      Motif name: AAAAAAAAAA**

Original motif  
Consensus sequence: HVCATGCATGCABD



Reverse complement motif  
Consensus sequence: DVTGCATGCATGBH



**Best Matches for Motif ID 101 (Highest to Lowest)**

Motif ID: [UP00055](#)  
Motif name: Hbp1\_primary  
Species: Mus musculus

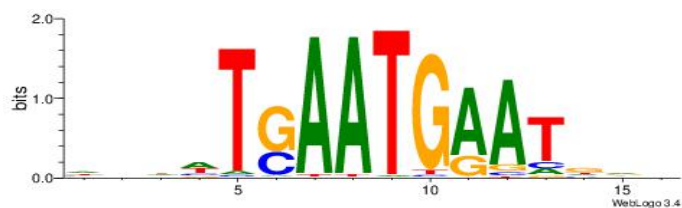
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00924574

Alignment:

```
HHDWTSAAATGAATDDB
--DVTGCATGCATGBH
```

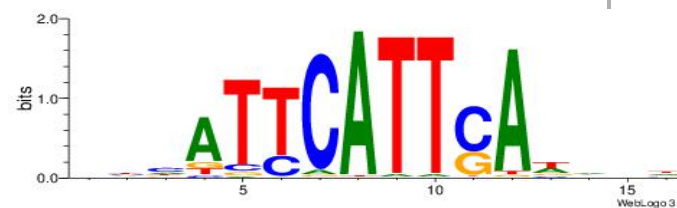
Original motif

Consensus sequence: HHDWTSAAATGAATDDB



Reverse complement motif

Consensus sequence: VDHATTCAATSAWDDH



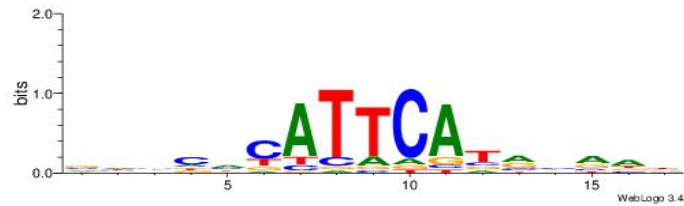
Motif ID:	<a href="#">UP00014</a>
Motif name:	Sox17_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0167718

**Alignment:**

VHBHHCATTCATRHVDD  
---HVCATGCATGCABD

**Original motif**

Consensus sequence: VHBHHCATTCATRHVDD



**Reverse complement motif**

Consensus sequence: DDBDKATGAATGHDBHV



---

Motif ID: [UP00150](#)  
Motif name: Irx6  
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: 0.0202583

**Alignment:**

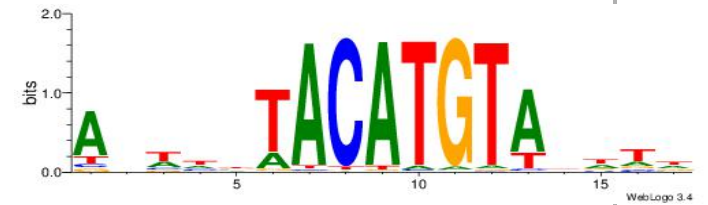
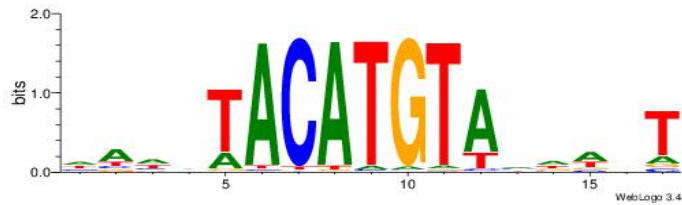
HAHDTACATGTAVDWHT  
HVCATGCATGCABD---

**Original motif**

Consensus sequence: HAHDTACATGTAVDWHT

**Reverse complement motif**

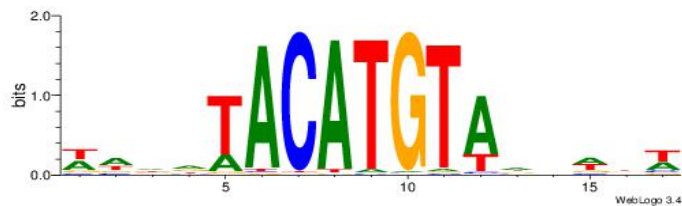
Consensus sequence: AHWDBTACATGTADHTH



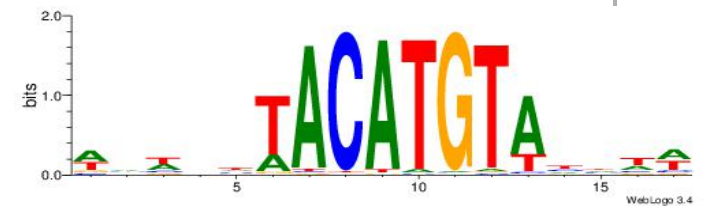
Motif ID: [UP00236](#)  
 Motif name: Irx2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0237467

Alignment:  
 WDDDTACATGTADDWBW  
 HVCATGCATGCABD---

Original motif  
 Consensus sequence: WDDDTACATGTADDWBW



Reverse complement motif  
 Consensus sequence: WWDDTACATGTADDW



Motif ID: [UP00211](#)



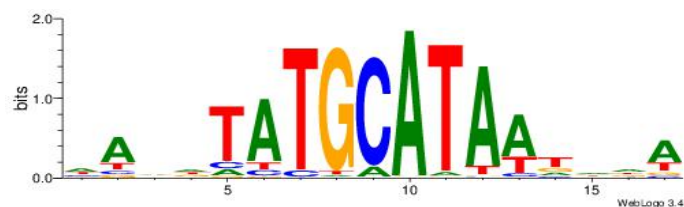
Motif name: Pou3f3  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0245446

Alignment:

HADDTATGCATAATDDA  
--HVCATGCATGCABD-

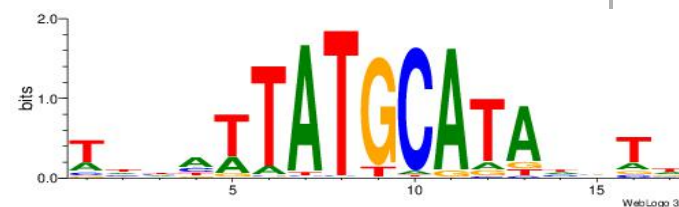
Original motif

Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH



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Motif ID: [UP00223](#)  
Motif name: Irx3\_0920.1  
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

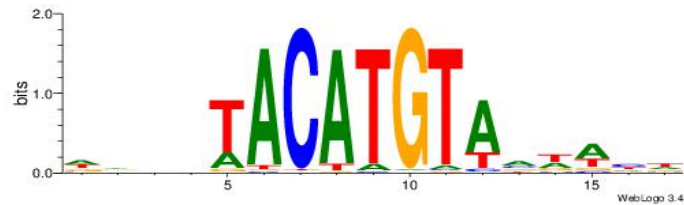
Similarity score: 0.0252726

Alignment:

DDDDTACATGTAVWWHD  
HVCATGCATGCABD---

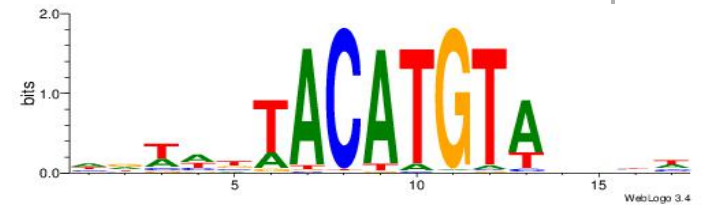
Original motif

Consensus sequence: DDDDTACATGTAVWWHD



Reverse complement motif

Consensus sequence: DDWWBTACATGTADDDD



Motif ID: [UP00250](#)  
Motif name: Irx5  
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: 14  
Similarity score: 0.0256022

Alignment:

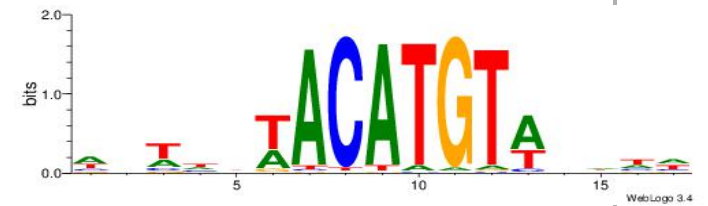
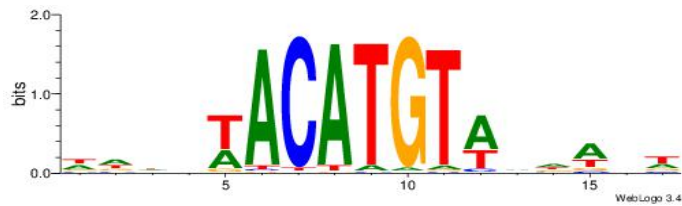
DDDHWACATGTWHDABW  
HVCATGCATGCABD---

Original motif

Consensus sequence: DDDHWACATGTWHDABW

Reverse complement motif

Consensus sequence: WVTDHWACATGTWHD

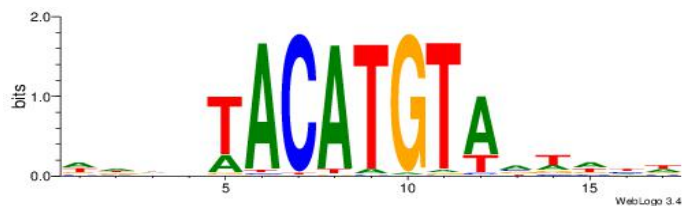


Motif ID: [UP00223](#)  
 Motif name: Irx3\_2226.1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0274094

Alignment:  
 DHDWBTACATGTAHDDD  
 -HVCATGCATGCABD--

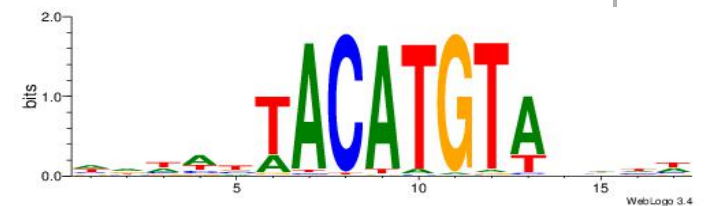
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



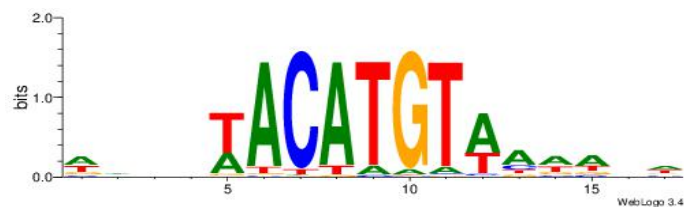
Motif ID: [UP00194](#)  
Motif name: Irx4  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0288893

Alignment:

WDHDWACATGTWAWABD  
HVCATGCATGCABD---

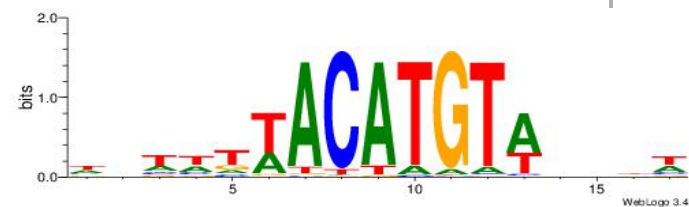
Original motif

Consensus sequence: WDHDWACATGTWAWABD



Reverse complement motif

Consensus sequence: DBTWTWACATGTWDHDW



---

Motif ID: [UP00526](#)  
Motif name: Foxn1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 6

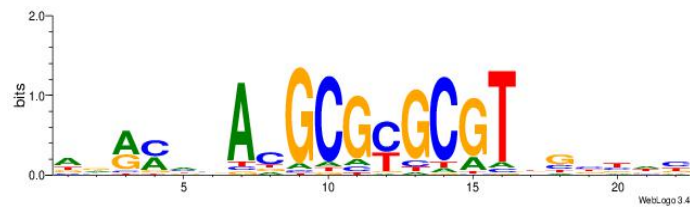
Number of overlap: 14  
Similarity score: 0.0296768

Alignment:

DDRMHBACGCGYGCCTDGBBDB  
---HVCATGCATGCABD-----

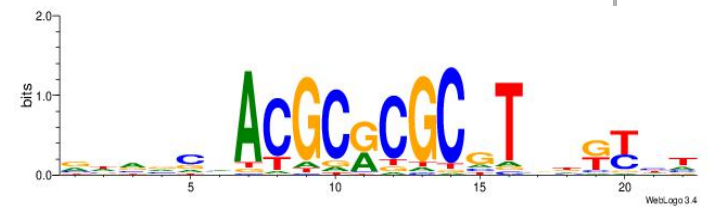
Original motif

Consensus sequence: DDRMHBACGCGYGCCTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



**Dataset #: 4      Motif ID: 102      Motif name: AAAAAAAAAA**

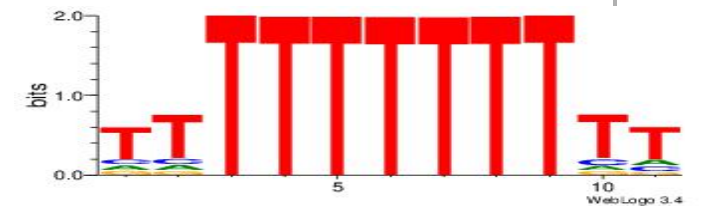
Original motif

Consensus sequence: AAAAAAAAAA



Reverse complement motif

Consensus sequence: TTTTTTTTTT



**Best Matches for Motif ID 102 (Highest to Lowest)**

Motif ID: [UP00077](#)  
Motif name: Srf\_secondary  
Species: Mus musculus

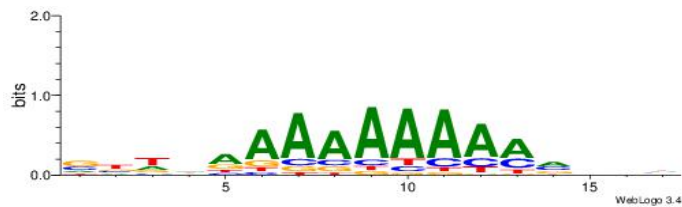
Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.00431539

Alignment:

VBDDAAAAAAAAAMVBHH  
 ---AAAAAAAAAAAA---

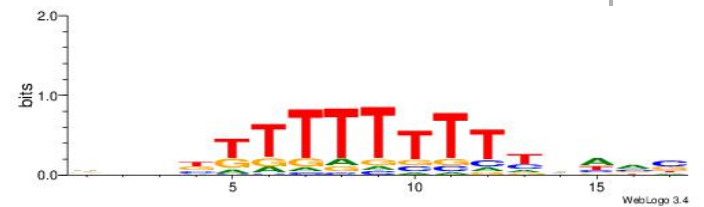
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



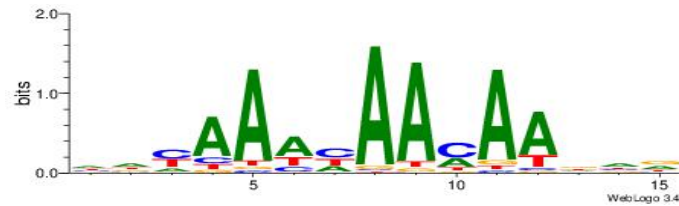
Motif ID: [UP00037](#)  
 Motif name: Zfp105\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00784339

Alignment:

```
HHHTTRTTDTTTKDH  
--TTTTTTTTTTT--
```

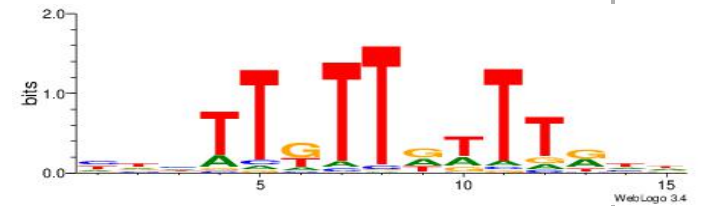
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHTTRTTDTTTKDH



---

Motif ID:	<a href="#">UP00073</a>
Motif name:	Foxa2_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:	0.0119308

Alignment:

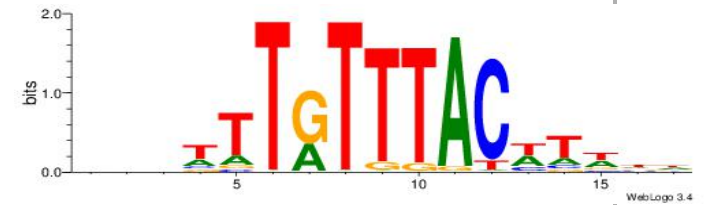
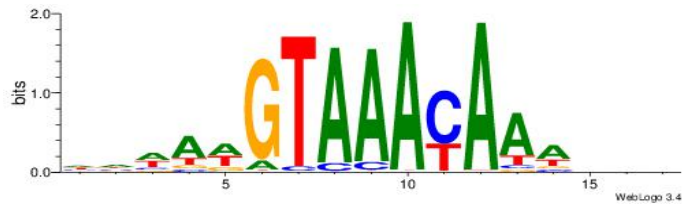
```
BDVTTTKTTTACWTWHH  
---TTTTTTTTTTT---
```

Original motif

Consensus sequence: HHWAWGTAAAYAAVDB

Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

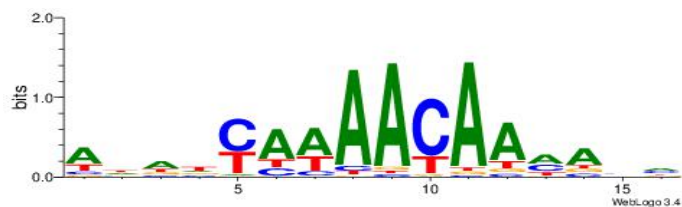


Motif ID: [UP00061](#)  
 Motif name: Foxl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0129906

Alignment:  
 HDTYTTGTTWTKDDDT  
 --TTTTTTTTTTTTT--

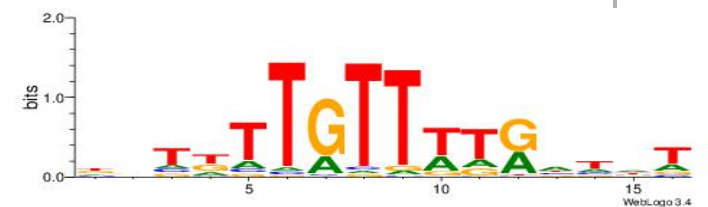
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00025](#)



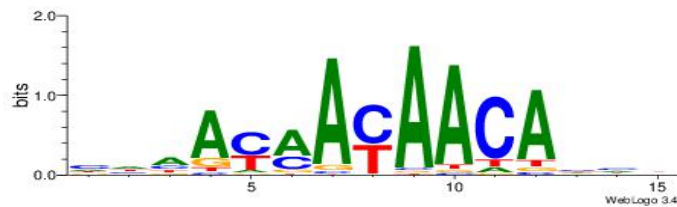
Motif name: Foxk1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0136111

Alignment:

HDDTGTTKTTKTHHD  
 --TTTTTTTTTTTT--

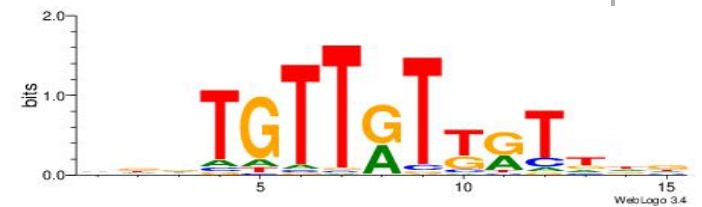
Original motif

Consensus sequence: HHHAYAAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD




---

Motif ID: [UP00062](#)  
 Motif name: Sox4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11

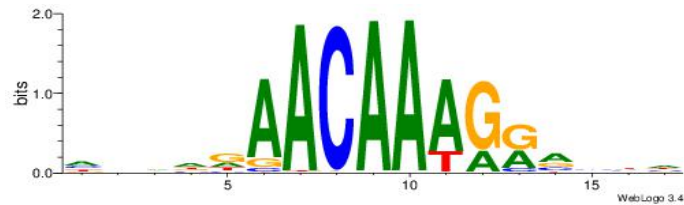
Similarity score: 0.0145474

Alignment:

HBDDDAACAAAGRVBHH  
---AAAAAAAAAAAA---

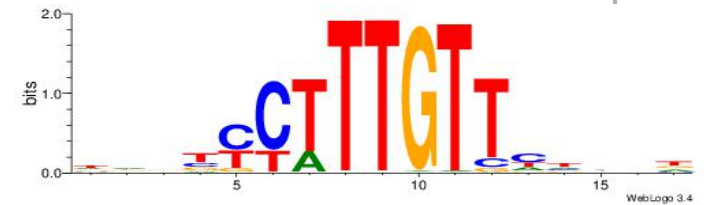
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00030](#)  
Motif name: Sox11\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.0146244

Alignment:

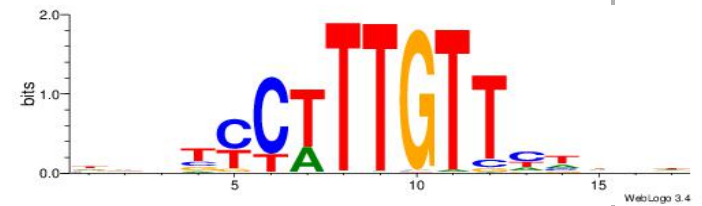
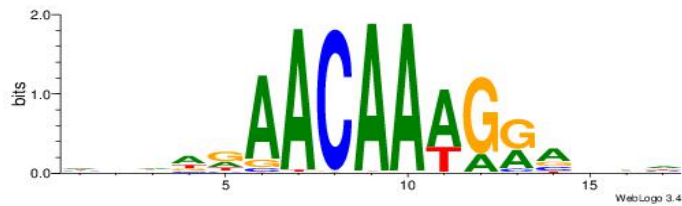
HBDDRAACAAAGRABHH  
---AAAAAAAAAAAA---

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



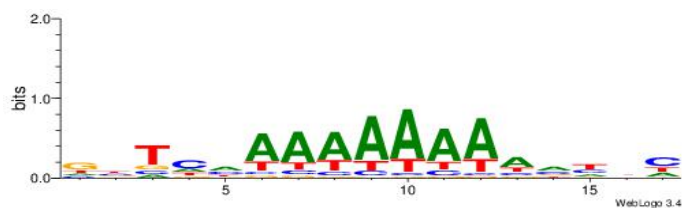
Motif ID: [UP00090](#)  
 Motif name: Elf3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0148887

Alignment:

DBTHHAAAAAAAAAVHDH  
 ---AAAAAAAAAAA---

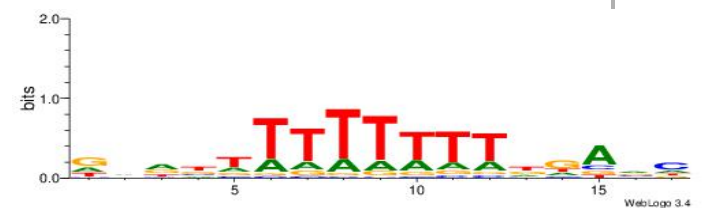
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTHDAVH



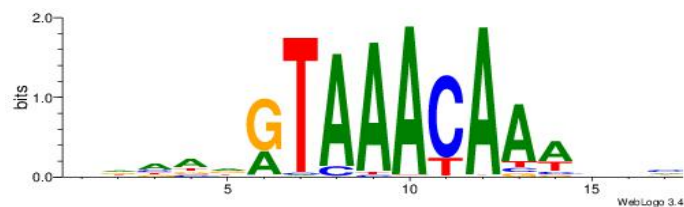
Motif ID: [UP00039](#)  
 Motif name: Foxj3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.015167

Alignment:

HDHADGTAAACAAAVVH  
 ---AAAAAAAAAAAA---

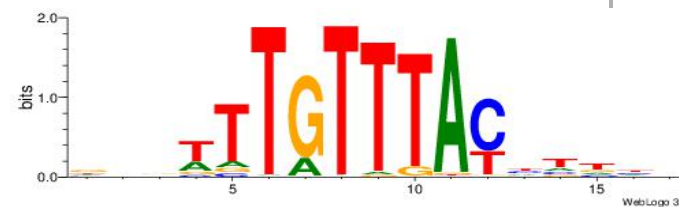
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



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: 4

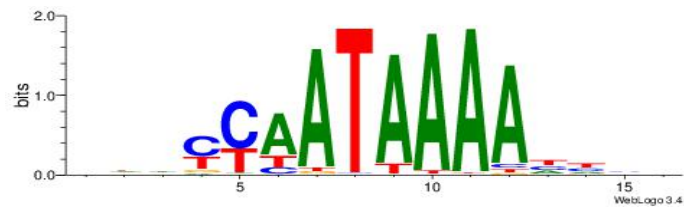
Number of overlap: 11  
Similarity score: 0.0152905

Alignment:

HDHHTTTTATTKKHDD  
--TTTTTTTTTTT---

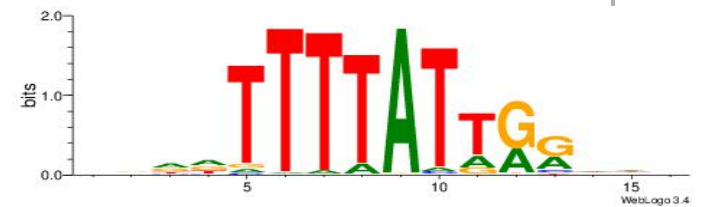
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

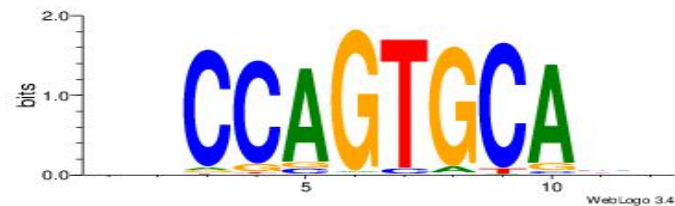
Consensus sequence: HDHHTTTTATTKKHDD



**Dataset #: 4      Motif ID: 103      Motif name: ccCCAGTGCAbr**

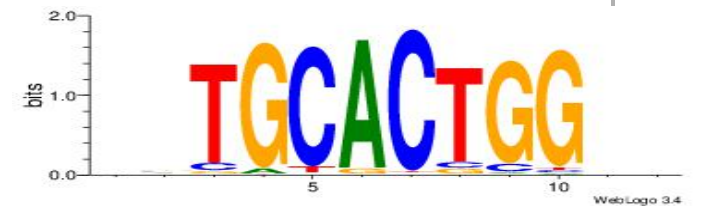
Original motif

Consensus sequence: HVCCAGTGCABD



Reverse complement motif

Consensus sequence: DBTGCACTGGVD



**Best Matches for Motif ID 103 (Highest to Lowest)**

Motif ID: [UP00031](#)  
Motif name: Zbtb3\_primary  
Species: Mus musculus

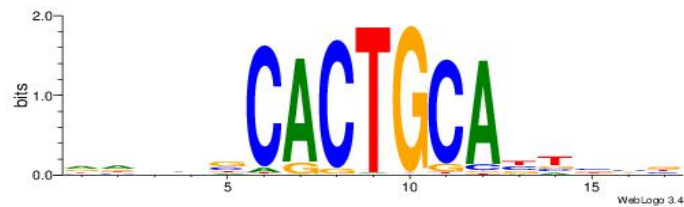
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0

Alignment:

```
DDBBBCACTGCABTBBB
--HVCCAGTGCABD---
```

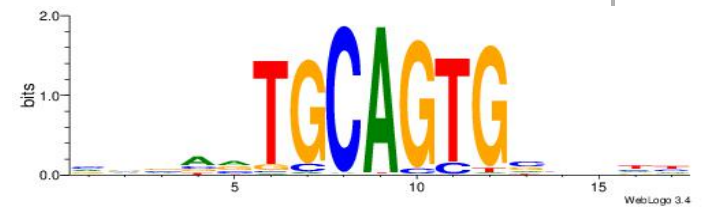
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVD



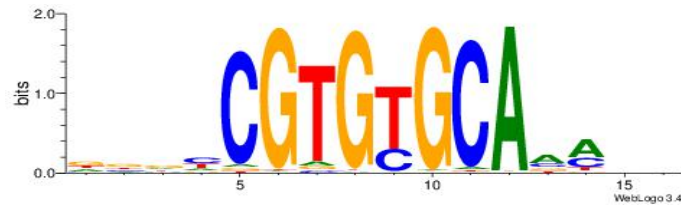
Motif ID:	<a href="#">UP00097</a>
Motif name:	Mtf1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0128063

Alignment:

HDYTTGCACACGDHBH  
--DBTGCACTGGVD--

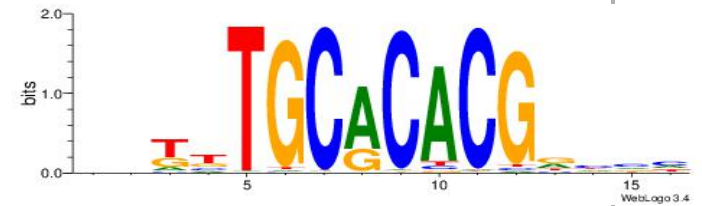
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



---

Motif ID: [UP00095](#)  
Motif name: Zfp691\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.019787

Alignment:

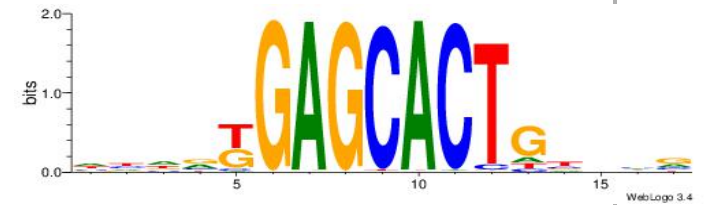
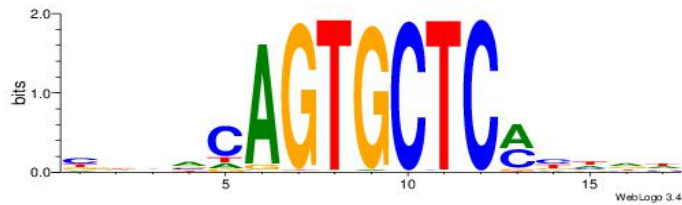
BDHVCAGTGCTCMBHDD  
-HVCCAGTGCABD----

Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD

Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHHB

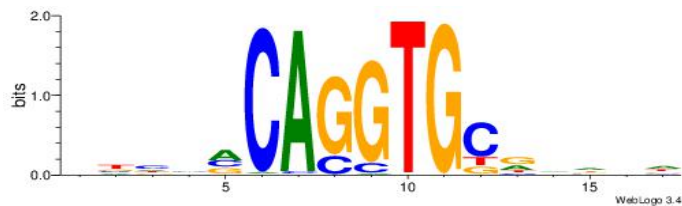


Motif ID: [UP00046](#)  
 Motif name: Tcfe2a\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0209863

Alignment:  
 VBHHVCAGGTGCDVDHD  
 ---HVCCAGTGCABD--

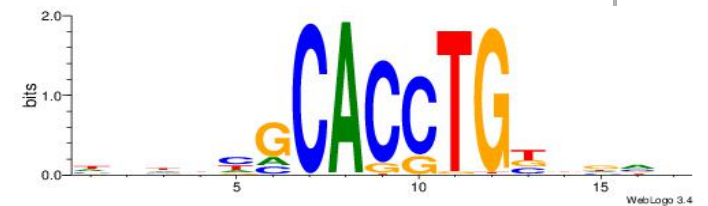
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00026](#)



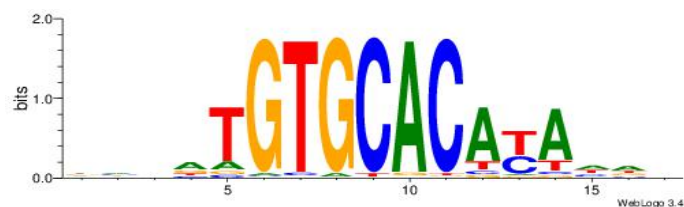
Motif name: Zscan4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 12  
 Similarity score: 0.0225315

Alignment:

HDHTMTGTGCACADVHD  
 -----DBTGCACTGGVD

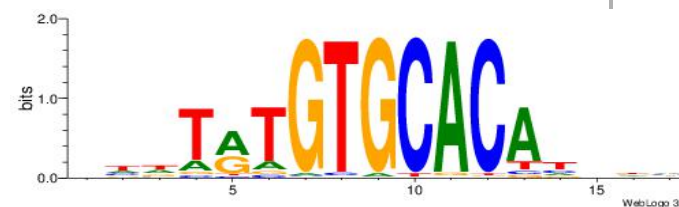
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD




---

Motif ID: [UP00066](#)  
 Motif name: Hnf4a\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 12

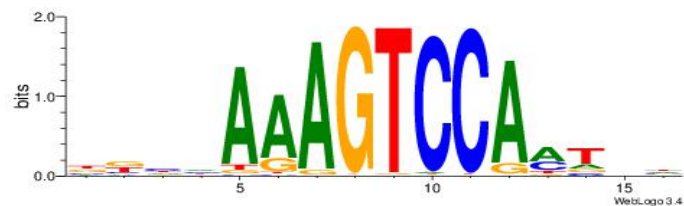
Similarity score: 0.0257713

Alignment:

```
HHAYTGGACTTTHDBV  
--DBTGCACTGGVD--
```

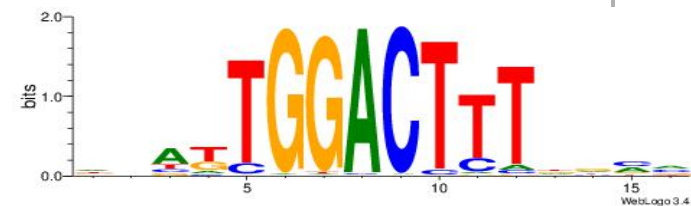
Original motif

Consensus sequence: BBHHAAGTCCAMTHH



Reverse complement motif

Consensus sequence: HHAYTGGACTTTHDBV



Motif ID: [UP00042](#)  
Motif name: Gm397\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 12  
Similarity score: 0.0258552

Alignment:

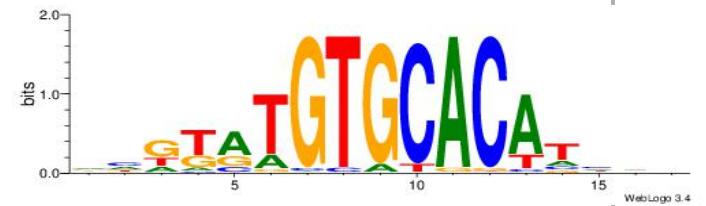
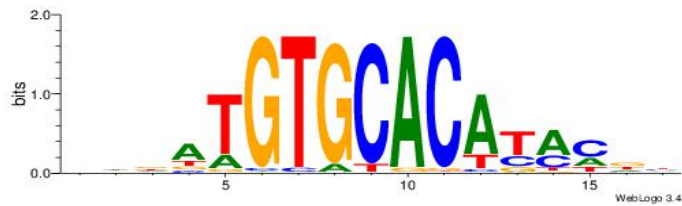
```
HHRTATGTGCACATHHD  
-----DBTGCACTGGVD
```

Original motif

Consensus sequence: HHDATGTGCACATAMDH

Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



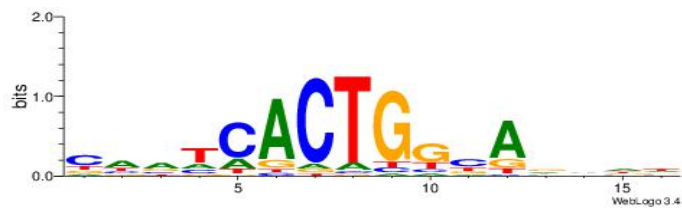
Motif ID: [UP00031](#)  
 Motif name: Zbtb3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 12  
 Similarity score: 0.0270671

**Alignment:**

DDHHTBCCAGTGABHG  
 ----HVCCAGTGCABD

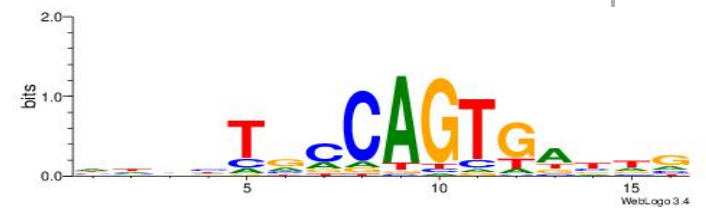
**Original motif**

Consensus sequence: CHVTCACTGGBADHDD



**Reverse complement motif**

Consensus sequence: DDHHTBCCAGTGABHG



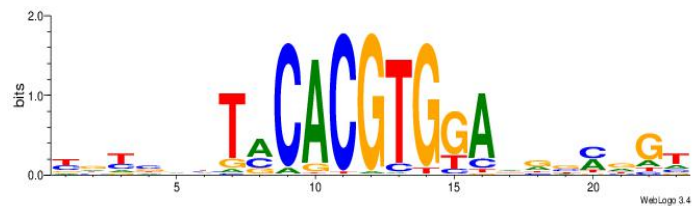
Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 12  
 Similarity score: 0.029338

**Alignment:**

ACHRBHDTCCACGTGYAHBMMHM  
 -----HVCCAGTGCABD-----

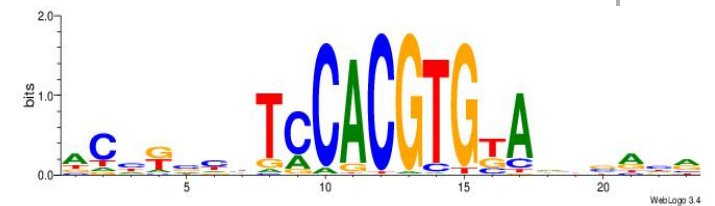
**Original motif**

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



**Reverse complement motif**

Consensus sequence: ACHRBHDTCCACGTGYAHBMMHM



Motif ID: [UP00079](#)  
 Motif name: Esrra\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3

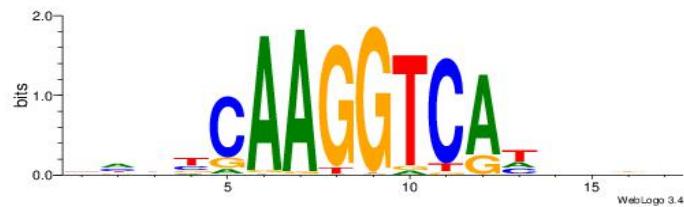
Number of overlap: 12  
Similarity score: 0.0321416

Alignment:

DHDBCAAGGTCAHVBDH  
--HVCCAGTGCABD---

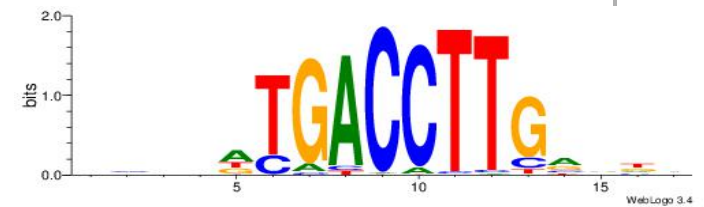
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

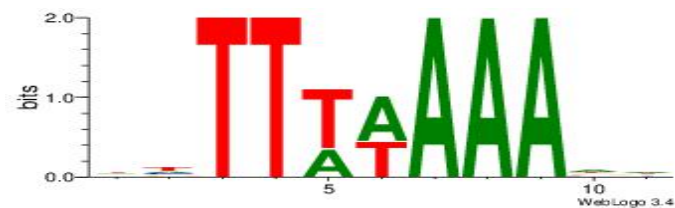


---

**Dataset #: 4      Motif ID: 104      Motif name: wtTTWwAAAaw**

Original motif

Consensus sequence: HHTTTWAAADD



Reverse complement motif

Consensus sequence: DDTTTWAAHH



**Best Matches for Motif ID 104 (Highest to Lowest)**

Motif ID: [UP00245](#)  
Motif name: Hoxc10  
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:	0.0119044

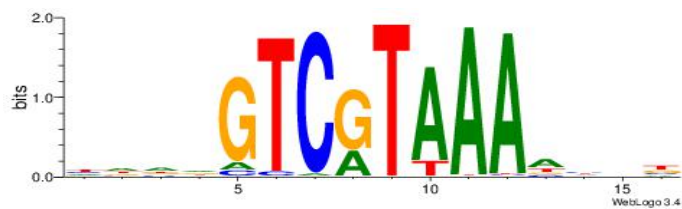
Alignment:

```

VBDDTTTACGACDDDH
--HHTTTWAAADD---
```

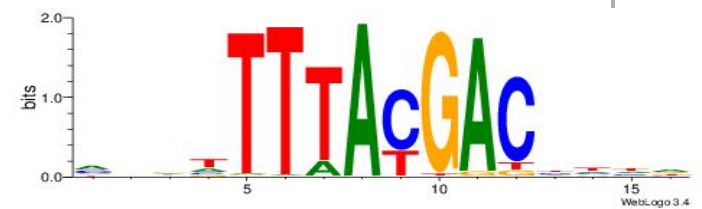
Original motif

Consensus sequence: HDDDGTTCGTAADHBB



Reverse complement motif

Consensus sequence: VBDDTTTACGACDDDH



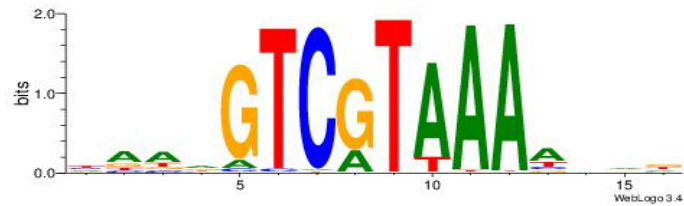
Motif ID:	<a href="#">UP00235</a>
Motif name:	Hoxc11
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0143277

Alignment:

```
HDHTTTTACGACDTTH  
--HHTTTWAAADD---
```

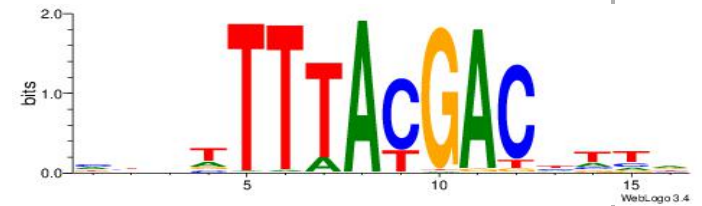
Original motif

Consensus sequence: HAADGTCGTAAAHHDD



Reverse complement motif

Consensus sequence: HDHTTTTACGACDTTH



---

Motif ID:	<a href="#">UP00016</a>
Motif name:	Sry_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:	0.0143283

Alignment:

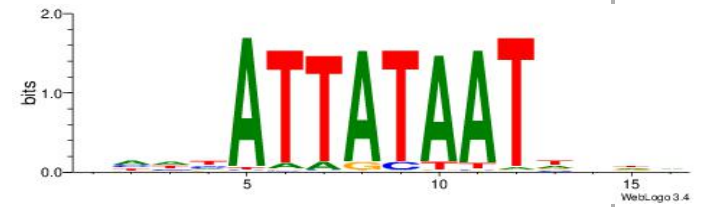
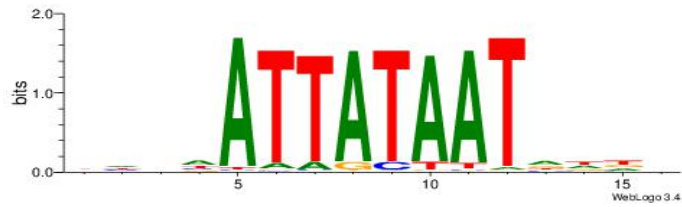
```
VDDDATTTATAATHDHV  
--DDTTTWAAAH---
```

Original motif

Consensus sequence: BHDHATTATAATDDD

Reverse complement motif

Consensus sequence: VDDDATTTATAATHDHV

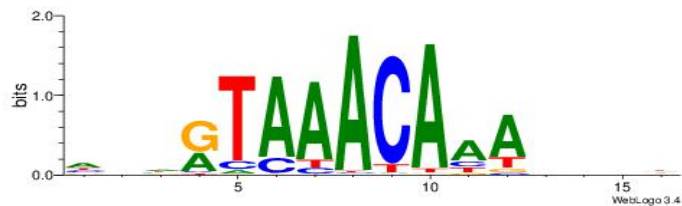


Motif ID: [UP00041](#)  
 Motif name: Foxj1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0149572

Alignment:  
 DDDHTTTGTTTAMHDH  
 ----DDTTTAAAHH-

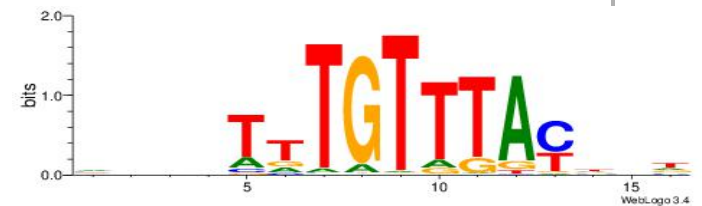
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



Motif ID: [UP00173](#)



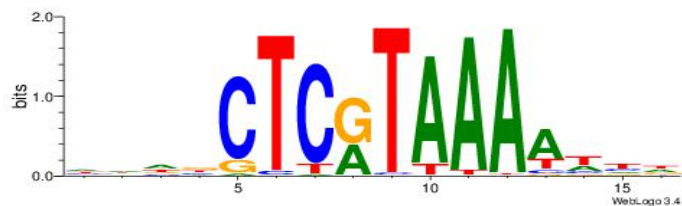
Motif name: Hoxc13  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0155375

**Alignment:**

DHWTTTTAMGAGBDHH  
 --HHTTTWAAADD---

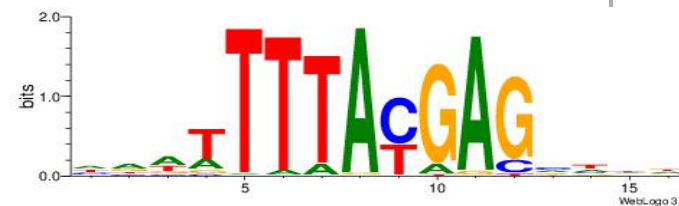
**Original motif**

Consensus sequence: HHDBCTCRATAAAWHD



**Reverse complement motif**

Consensus sequence: DHWTTTTAMGAGBDHH




---

Motif ID: [UP00117](#)  
 Motif name: Hoxd11  
 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

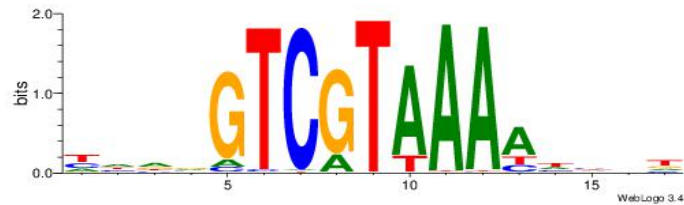
Similarity score: 0.0159585

Alignment:

DDDHTTTTACGACVDHH  
---HHTTTWAAADD---

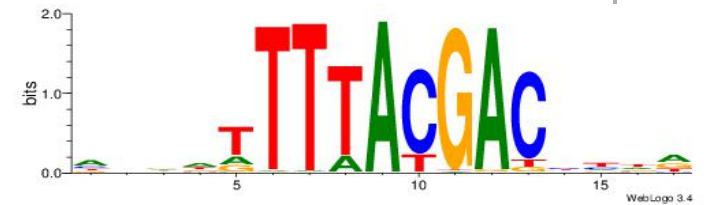
Original motif

Consensus sequence: HHDVGTCTGTA AAAHHHD



Reverse complement motif

Consensus sequence: DDDHTTTTACGACVDHH



Motif ID: [UP00246](#)  
Motif name: Hoxa11  
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: 0.0168788

Alignment:

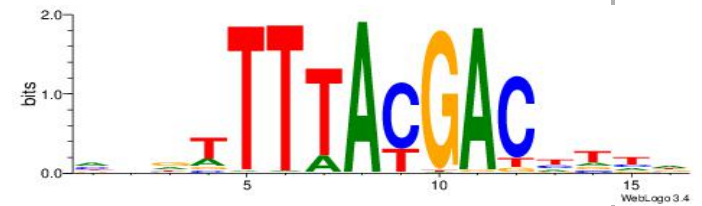
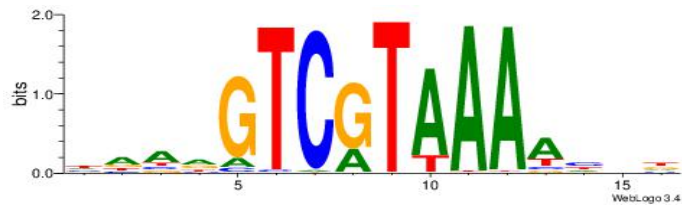
DDDTTTTACGACDTH  
--HHTTTWAAADD---

Original motif

Consensus sequence: HDADGTCGT AAAHDD

Reverse complement motif

Consensus sequence: DDDTTTACGACDTH



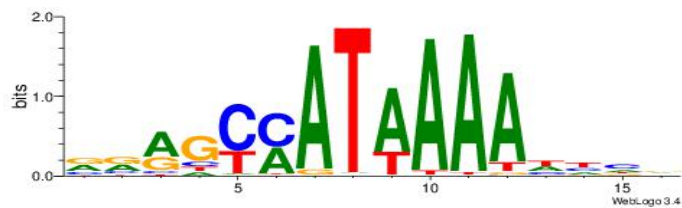
Motif ID: [UP00207](#)  
 Motif name: Hoxb9  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0169735

**Alignment:**

HDHHTTTTATRGCKMV  
 --HHTTTWAAADD---

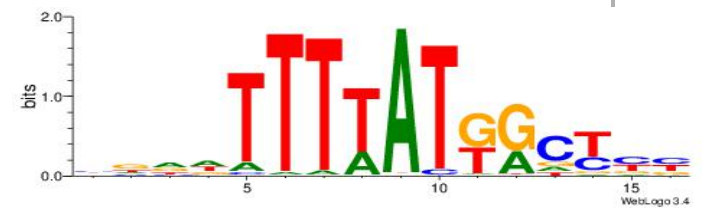
**Original motif**

Consensus sequence: VRRGCMATAAAHHHD



**Reverse complement motif**

Consensus sequence: HDHHTTTTATRGCKMV



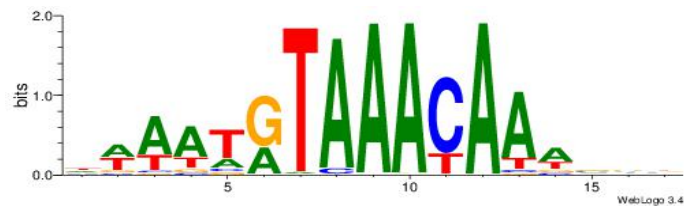
Motif ID: [UP00061](#)  
 Motif name: Foxl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0178232

**Alignment:**

VVVWTTGTTTAMATTWD  
 ---DDTTTAAAH---

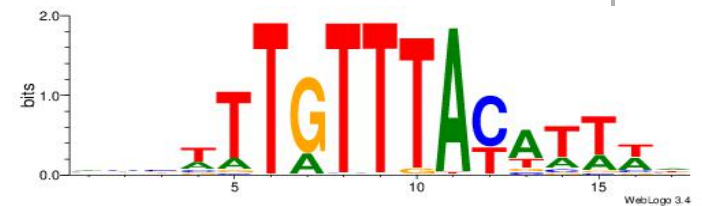
**Original motif**

Consensus sequence: DWAATRCAAACAAWVVB



**Reverse complement motif**

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00023](#)  
 Motif name: Sox30\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3

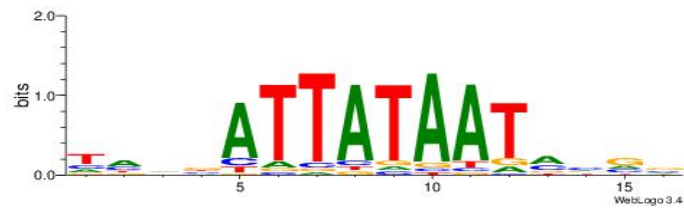
Number of overlap: 11  
Similarity score: 0.0180189

Alignment:

THDBATTATAATMVVV  
--DDTTTWAAAH--

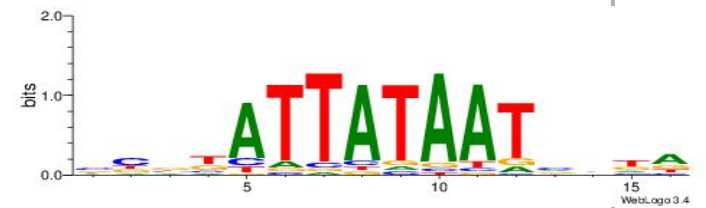
Original motif

Consensus sequence: THDBATTATAATMVVV



Reverse complement motif

Consensus sequence: VVVYATTATAATBDHA



Results created by MOTIFSIM on 11-20-2016 14:49:39

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MOTIFSIM is written by Ngoc Tam L. Tran

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