



# MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

## INPUT

### Input Parameters

Number of files:	5
Number of top significant motifs:	5
Number of best matches:	5
Similarity cutoff $\geq$	0.75
Matching motif database:	UniProbe Mus Musculus
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

### Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM230.txt	1	1
MEME_DM230.txt	20	2
PScanChIP_DM230.txt	14	3
RSAT_peak-motifs_DM230.txt	10	4
W-ChIPMotifs_DM230.txt	11	5

## RESULTS

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

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

Original motif

Consensus sequence: GGCGGGGC



Reverse complement motif

Consensus sequence: GCCCGGCC



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

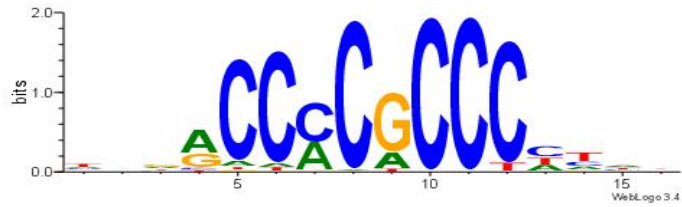
Motif ID:	<a href="#">UP00093</a>
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

```
HBDRCCMCGCCCHHHD  
---GCCCGGCC-----
```

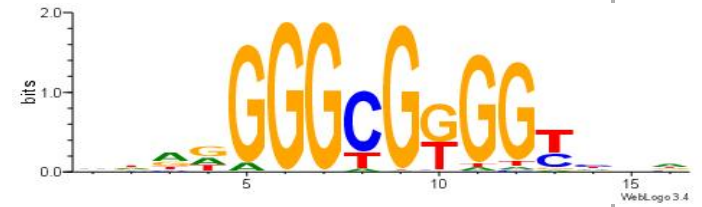
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



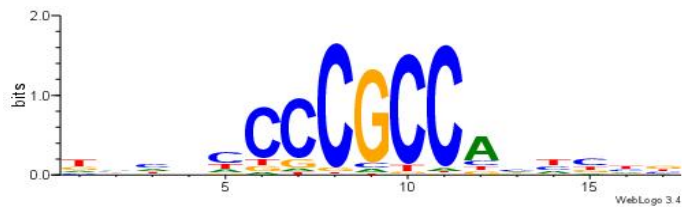
Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00617043

Alignment:

```
BHBHDTGGCGGGBDHD
-----GGCGGGGC----
```

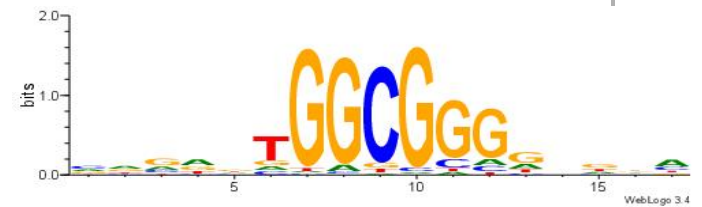
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



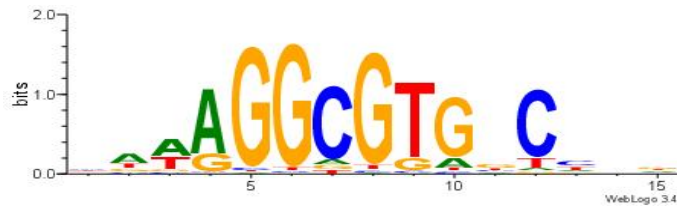
Motif ID: [UP00002](#)  
Motif name: Sp4\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 8  
Similarity score: 0.0145996

Alignment:

BDWAGGCGTGBCHHD  
----GGCGGGC---

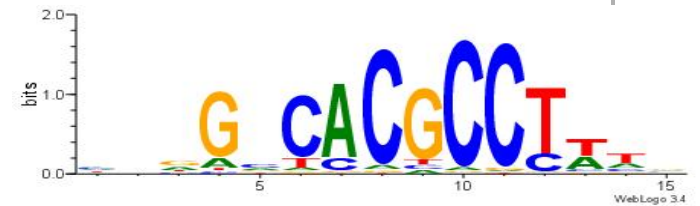
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB

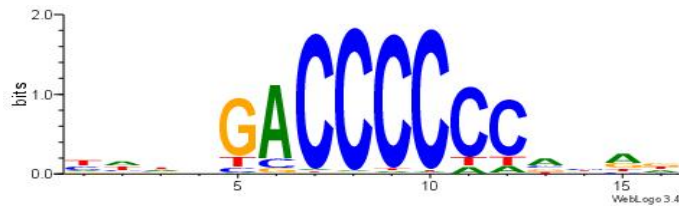


Motif ID: [UP00002](#)  
Motif name: Sp4\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward



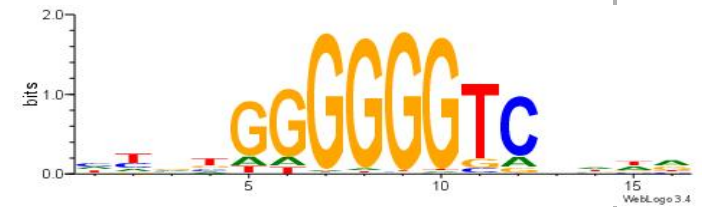
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCVHHH



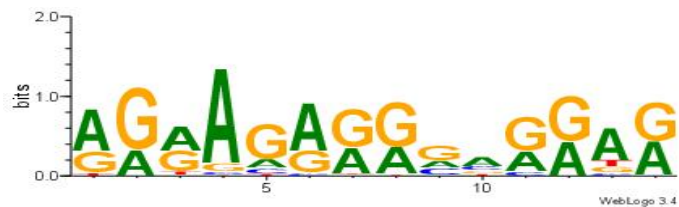
**Dataset #: 2**

**Motif ID: 2**

**Motif name: Motif 2**

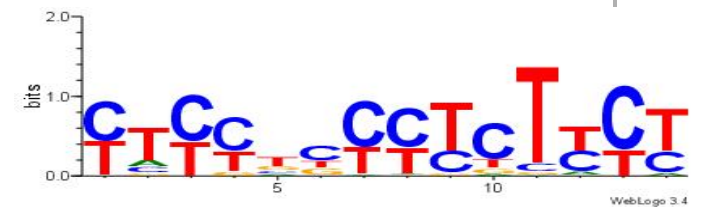
Original motif

Consensus sequence: RGRAGARRGARRAR



Reverse complement motif

Consensus sequence: MTMMTCMMTCTKCK



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

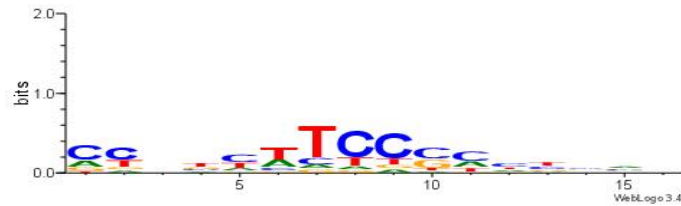
Motif ID:	<a href="#">UP00013</a>
Motif name:	Gabpa_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0378622

Alignment:

DBVVDRSGGAWKVHKG  
RGRAGARRGARRAR--

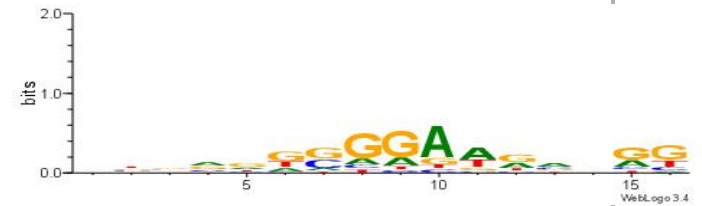
Original motif

Consensus sequence: CYDBYWTCSSMHBVVH



Reverse complement motif

Consensus sequence: DBVVDRSGGAWKVHKG



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Motif ID:	<a href="#">UP00101</a>
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:	14
Similarity score:	0.038148

Alignment:

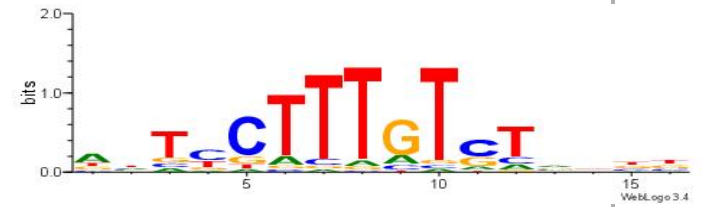
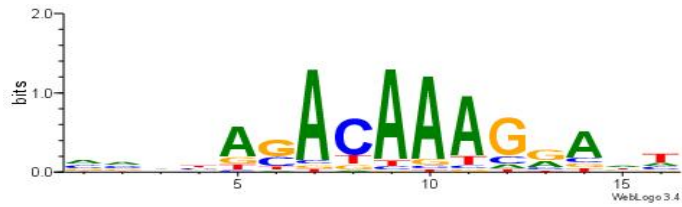
VVDBASACAAAGRADH  
-RGRAGARRGARRAR-

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB

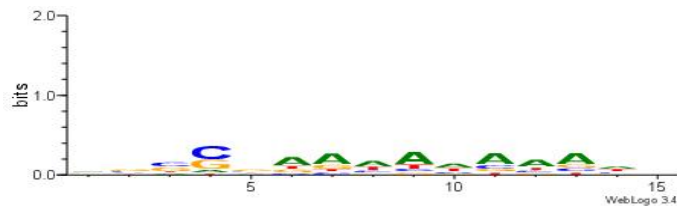


Motif ID: [UP00058](#)  
 Motif name: Tcf3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.039618

Alignment:  
 DVBSBDAHAHAHAHH  
 RGRAGARRGARRAR-

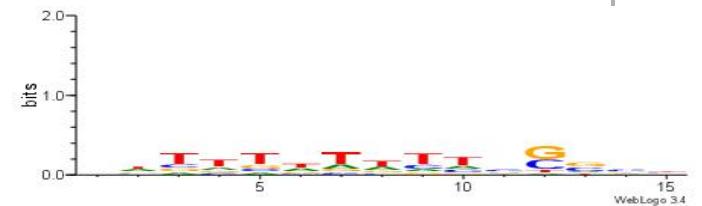
Original motif

Consensus sequence: DVBSBDAHAHAHAHH



Reverse complement motif

Consensus sequence: HHTHTHTHTDBSBVD



Motif ID: [UP00528](#)



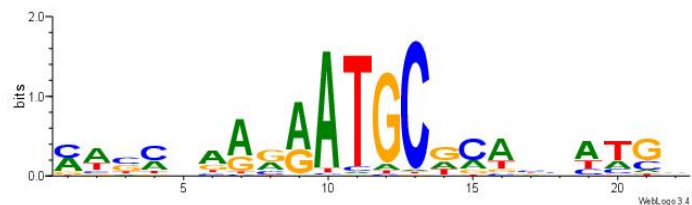
Motif name: Foxm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 9  
 Number of overlap: 14  
 Similarity score: 0.0407385

**Alignment:**

MWSMBAARRATGCD CABHATGD  
 MTMMTCMMTCTKCK-----

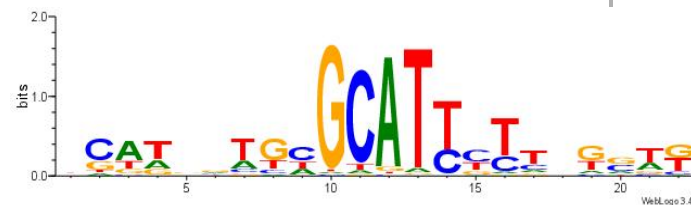
**Original motif**

Consensus sequence: MWSMBAARRATGCD CABHATGD



**Reverse complement motif**

Consensus sequence: DCATDBTGHGCATKMTTBRSWR




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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: 3  
 Number of overlap: 14

Similarity score:

0.0409403

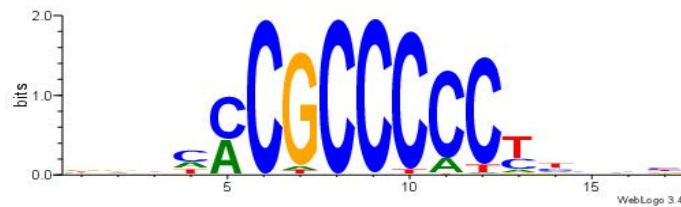
Alignment:

BVVHAGGGGGCGRDHBB

-RGRAGARRGARRAR--

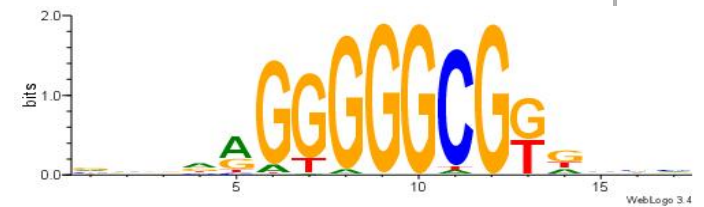
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



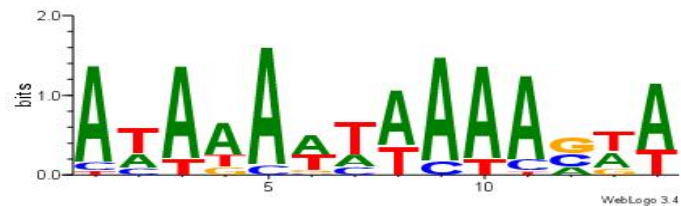
**Dataset #: 2**

**Motif ID: 3**

**Motif name: Motif 3**

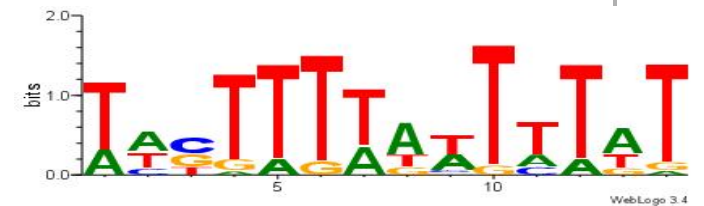
Original motif

Consensus sequence: AWAAAWTWAAASWA



Reverse complement motif

Consensus sequence: TWSTTTWAWTTTWT



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

Motif ID:

[UP00121](#)

Motif name:

Hoxd10

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

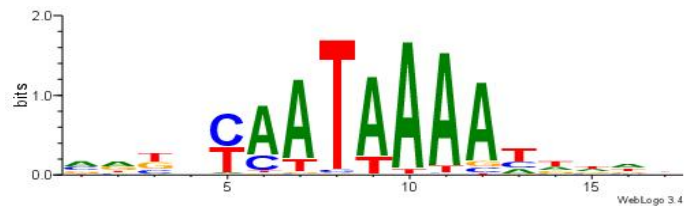
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0232094

Alignment:

```
HDDDATTTTATTKVRDB  
--TWSTTTWAWTTTWT-
```

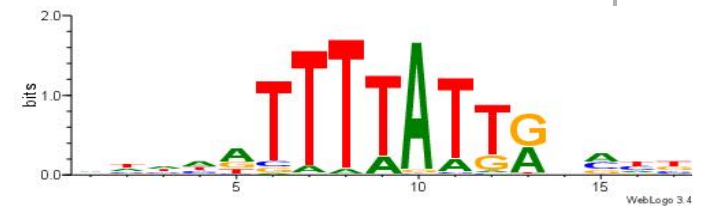
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



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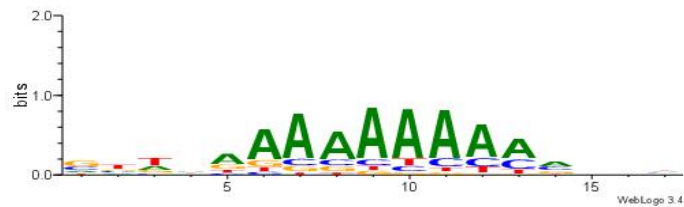
Motif ID: [UP00077](#)  
Motif name: Srf\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.024404

Alignment:

VBDDAAAAAAAAAMVBHH  
--AWAAAWTWAAASWA-

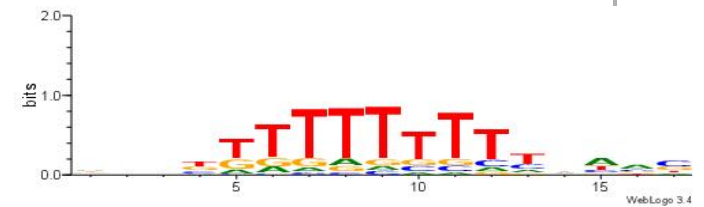
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



Motif ID: [UP00255](#)  
Motif name: Dbx1  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.0273798

Alignment:

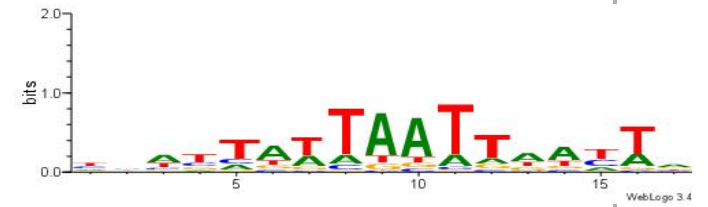
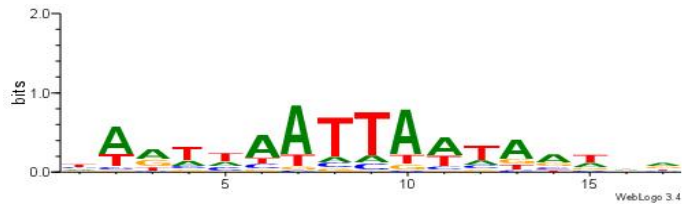
HARTHAATTAWTAVDHD  
--AWAAAWTWAAASWA-

Original motif

Consensus sequence: HARTHAATTAWTAVDHD

Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH

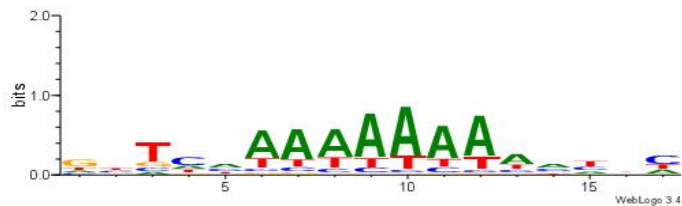


Motif ID: [UP00090](#)  
 Motif name: Elf3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0293574

Alignment:  
 DBTHHAAAAAAAAAVHDH  
 --AWAAAWTWAAASWA-

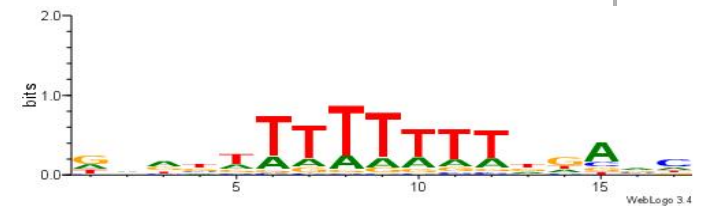
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



Motif ID: [UP00037](#)

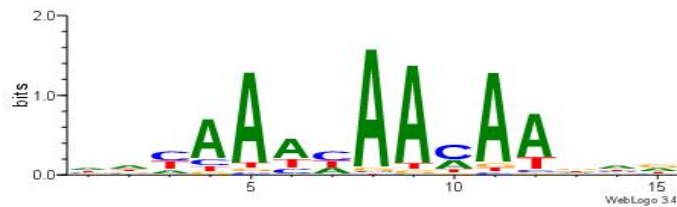
Motif name: Zfp105\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0316804

**Alignment:**

HDYAAHAAMAADHD  
 AWAAAWTWAAASWA-

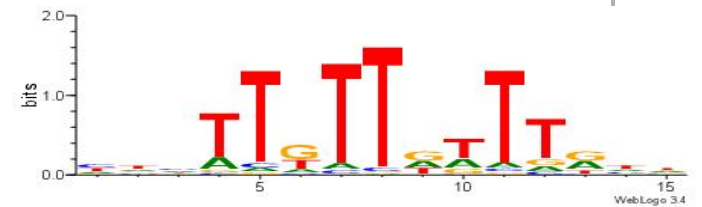
**Original motif**

Consensus sequence: HDYAAHAAMAADHD



**Reverse complement motif**

Consensus sequence: HHHTRTTDTTTKDH



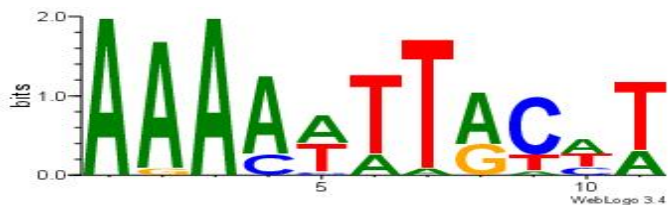
**Dataset #: 2      Motif ID: 4      Motif name: Motif 4**

**Original motif**

Consensus sequence: AAAAWTTRCWT

**Reverse complement motif**

Consensus sequence: AWGKAAWTTTT



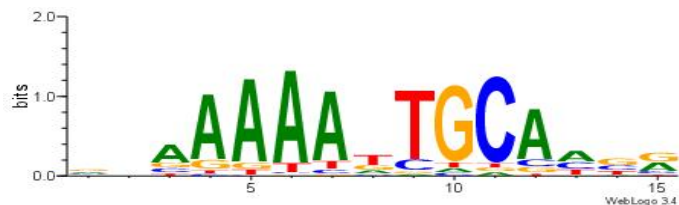
**Best Matches for Motif ID 4 (Highest to Lowest)**

Motif ID: [UP00044](#)  
 Motif name: Mafk\_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: 0.022187

Alignment:  
 VHAAAAADTGCAHBR  
 --AAAWTTRCWT--

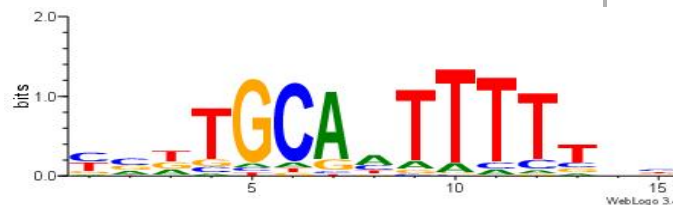
**Original motif**

Consensus sequence: VHAAAAADTGCAHBR



**Reverse complement motif**

Consensus sequence: MBHTGCADTTTTTHV



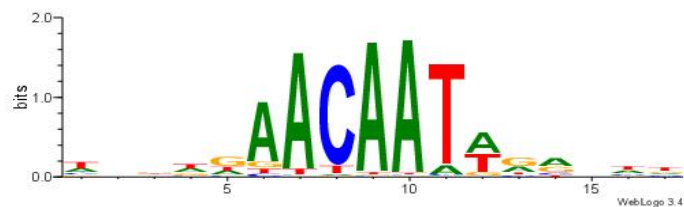
Motif ID: [UP00075](#)  
Motif name: Sox15\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 11  
Similarity score: 0.0318877

Alignment:

DHVKMWATTGTTHDHDH  
AWGKAAWTTTT-----

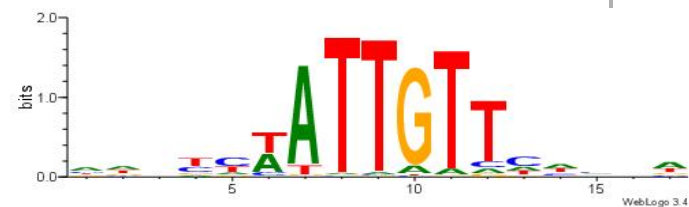
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



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Motif ID: [UP00091](#)  
Motif name: Sox5\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 6



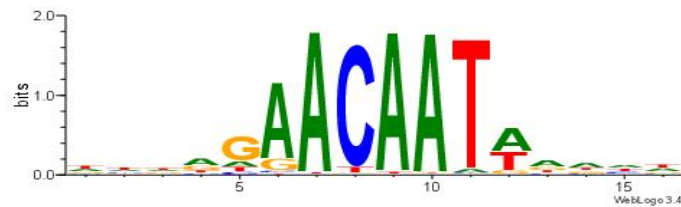
Number of overlap: 11  
Similarity score: 0.0333897

Alignment:

DHDDWATTGTTCCDDHD  
AWGKAAWTTTT-----

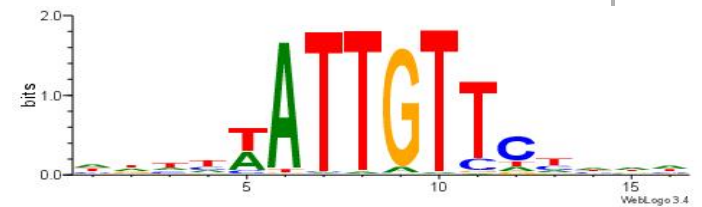
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCCDDHD



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Motif ID: [UP00014](#)  
Motif name: Sox17\_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: 0.0352391

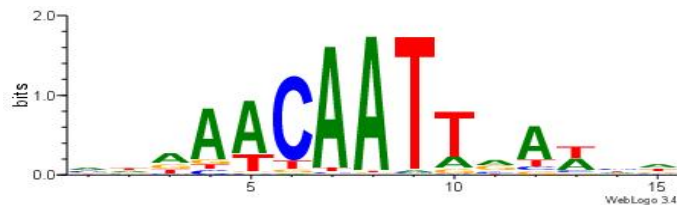
Alignment:

DDWTBAATTGTTDDB  
-AWGKAAWTTTT---

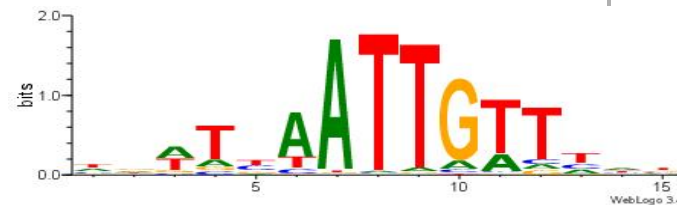
Original motif

Reverse complement motif

Consensus sequence: VDDAACAATTVAWHD



Consensus sequence: DDWTBAATTGTTDDB

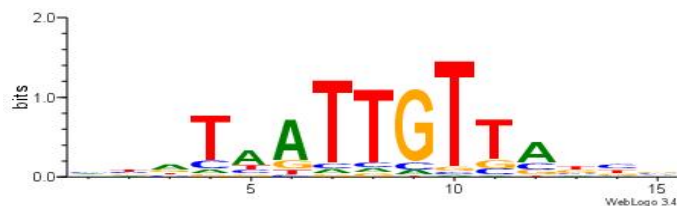


Motif ID: [UP00069](#)  
Motif name: Sox1\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 11  
Similarity score: 0.0357052

Alignment:  
VBVTAACAATTADVD  
AWGKAAWTTTTT----

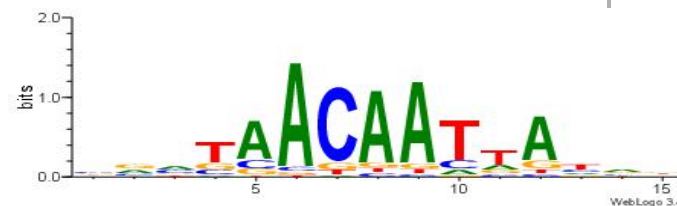
Original motif

Consensus sequence: HBDTAATTGTTABBV



Reverse complement motif

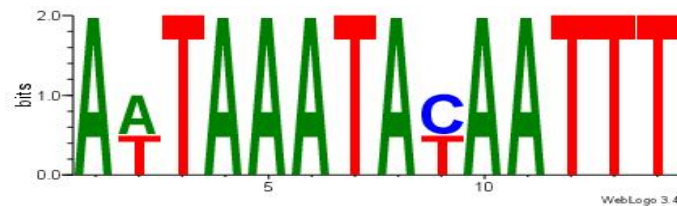
Consensus sequence: VBVTAACAATTADVD



**Dataset #: 2      Motif ID: 5      Motif name: Motif 5**

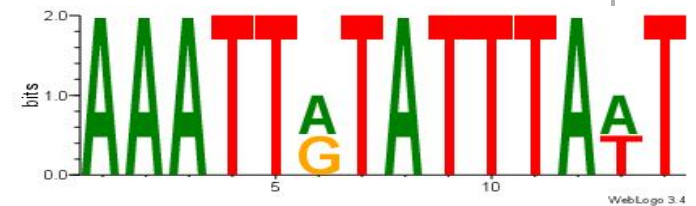
Original motif

Consensus sequence: AWTAATAYAATTT



Reverse complement motif

Consensus sequence: AAATTKTATTTAWT



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

Motif ID:	<a href="#">UP00121</a>
Motif name:	Hoxd10
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:	0.0258732

Alignment:

HDDDATTTTATTKVRDB

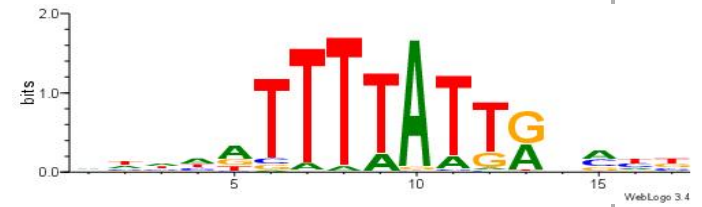
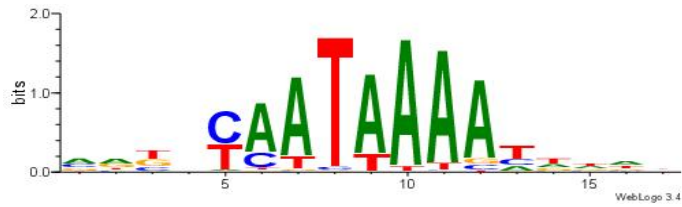
--AAATTKTATTTAWT-

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

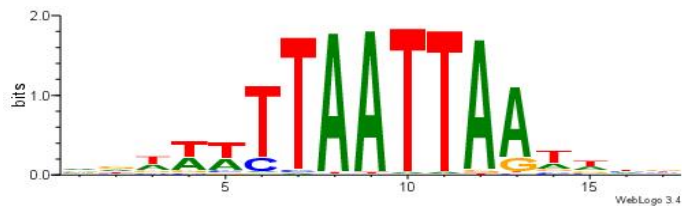


Motif ID: [UP00169](#)  
 Motif name: Lmx1b  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0275967

Alignment:  
 VDWWWTTAATTAATDHB  
 AAATTKTATTTAWT---

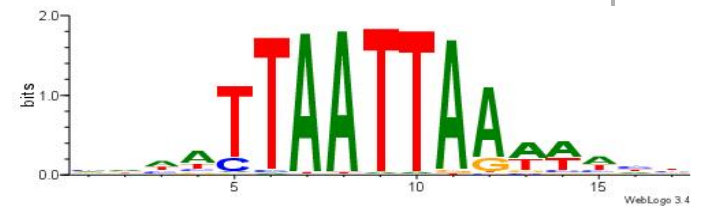
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00212](#)

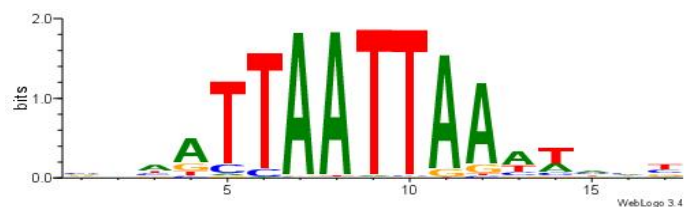
Motif name: Lhx5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0276125

**Alignment:**

VDHWTTTAATTAATHHV  
 AAATTKTATTTAWT---

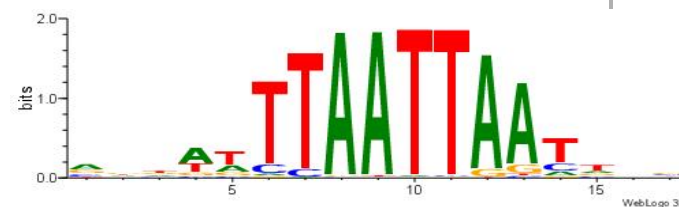
**Original motif**

Consensus sequence: VDHATTAATTAAWHHB



**Reverse complement motif**

Consensus sequence: VDHWTTTAATTAATHHV




---

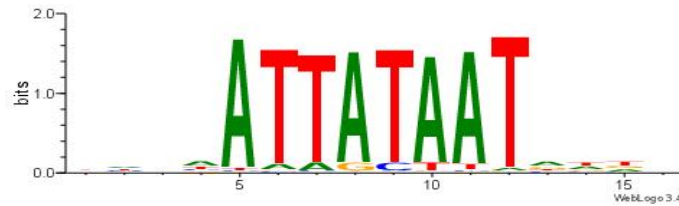
Motif ID: [UP00016](#)  
 Motif name: Sry\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.027741

Alignment:

BHDHATTATAATDDD  
AWTAAATAYAATTT--

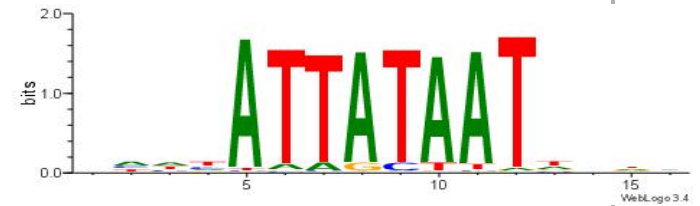
Original motif

Consensus sequence: BHDHATTATAATDDD



Reverse complement motif

Consensus sequence: VDDDATTATAATHDHV



---

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: 2  
Number of overlap: 14  
Similarity score: 0.0290926

Alignment:

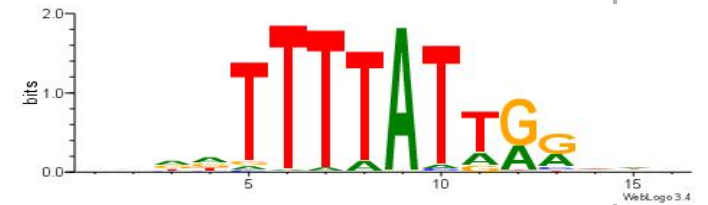
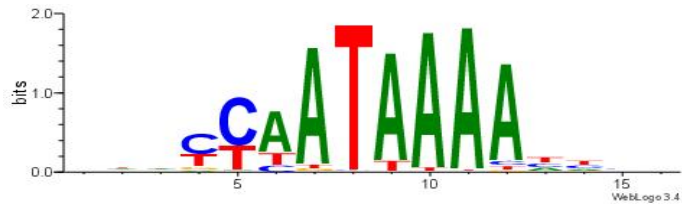
HDHHTTTTATTKKHDD  
-AAATTKTATTTAWT-

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



**Dataset #: 2      Motif ID: 6      Motif name: Motif 6**

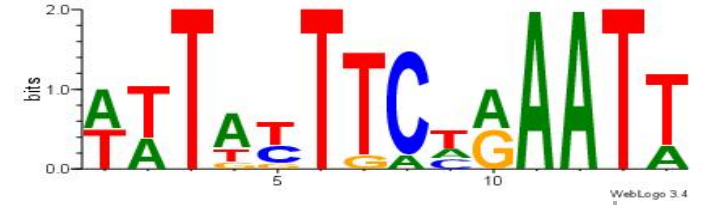
Original motif

Consensus sequence: AATTYDGAARTAWW



Reverse complement motif

Consensus sequence: WWTAKTTCDKAATT



**Best Matches for Motif ID 6 (Highest to Lowest)**

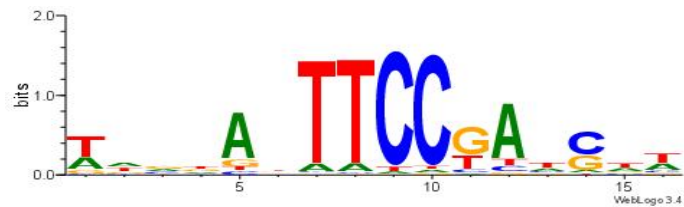
Motif ID:	<a href="#">UP00015</a>
Motif name:	Ehf_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0435331

Alignment:

WDSHTYGGAAVTDVDW  
-AATTYDGAARTAWW-

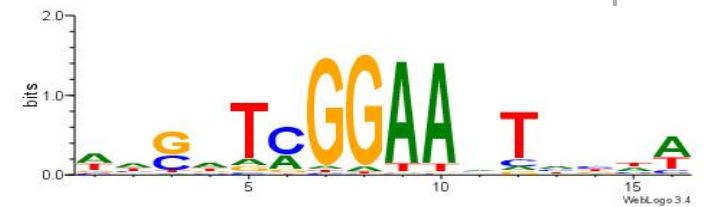
Original motif

Consensus sequence: WDVDABTTCCKAHSDW



Reverse complement motif

Consensus sequence: WDSHTYGGAAVTDVDW



Motif ID: [UP00044](#)  
Motif name: Mafk\_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: 14  
Similarity score: 0.0443465

Alignment:

HAGTCAGCAWTTTWD  
AATTYDGAARTAWW-

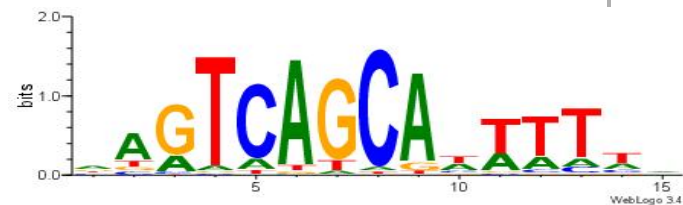
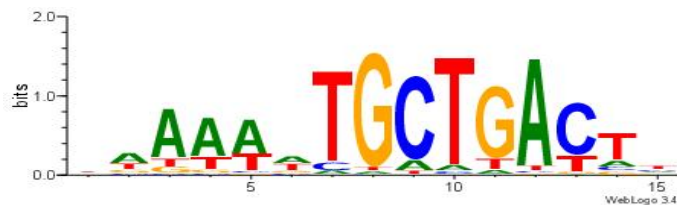
Original motif

Consensus sequence: DWAAAWTGCTGACTH

Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



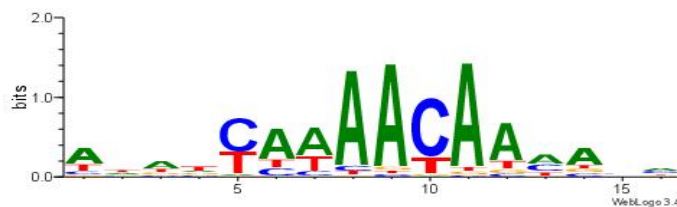


Motif ID: [UP00061](#)  
 Motif name: Foxl1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0477209

Alignment:  
 HDTYTTGTTWTKDDDT  
 --WWTAKTTCDKAATT

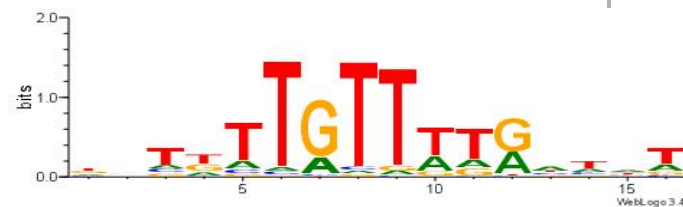
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00255](#)

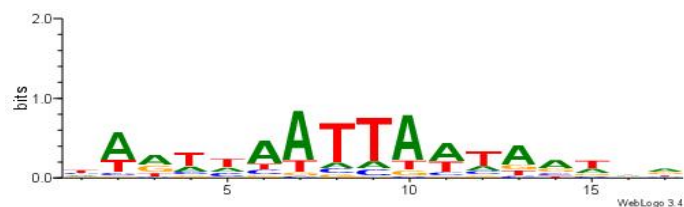
Motif name: Dbx1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0481558

**Alignment:**

DHDBTAWTAATTHAKTH  
 --WWTAKTTCDKAATT-

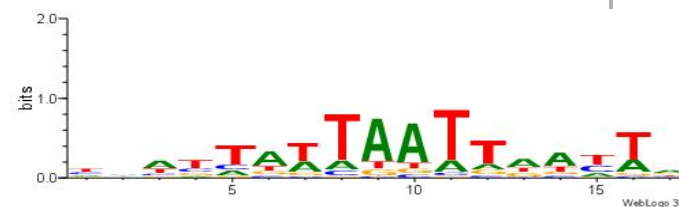
**Original motif**

Consensus sequence: HARTHAATTAWTAVDHD



**Reverse complement motif**

Consensus sequence: DHDBTAWTAATTHAKTH




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Motif ID: [UP00097](#)  
 Motif name: Mtf1\_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:

0.0495241

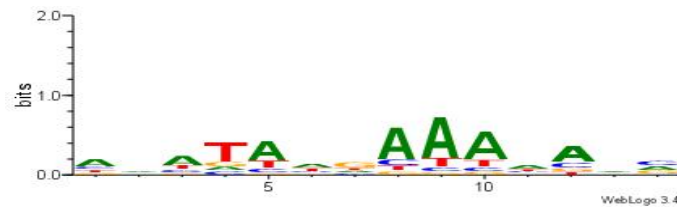
Alignment:

VDTHTTTHHTATDH

WWTAKTTCDKAATT

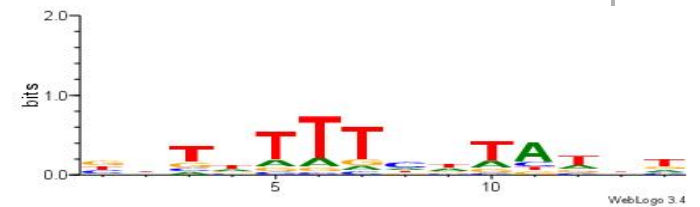
Original motif

Consensus sequence: HDATAHDAAAHADV



Reverse complement motif

Consensus sequence: VDTHTTTTHHTATDH



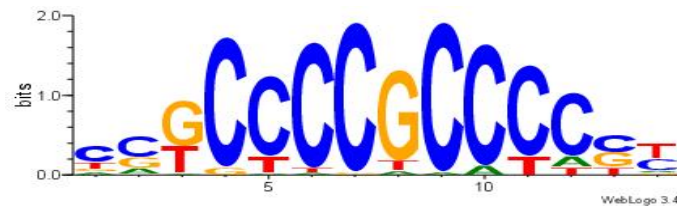
**Dataset #: 2**

**Motif ID: 7**

**Motif name: Motif 7**

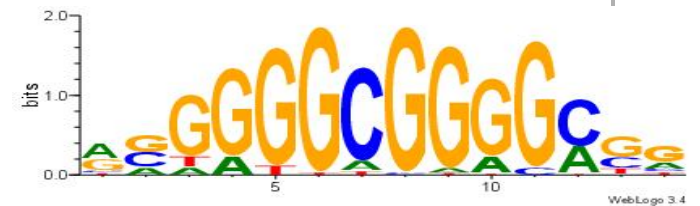
Original motif

Consensus sequence: CSKCCCCGCCCSY



Reverse complement motif

Consensus sequence: MSGGGGCGGGYSG



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

Motif ID:

[UP00093](#)

Motif name:

Klf7\_primary

Species:

Mus musculus

Matching format of first motif:

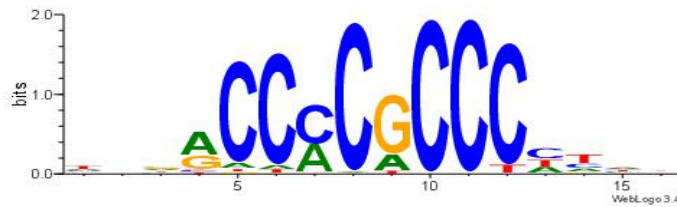
Reverse Complement

Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.000548354

Alignment:  
 DHH DGGGCGRGGKHBH  
 -MSGGGGCGGGGYSG-

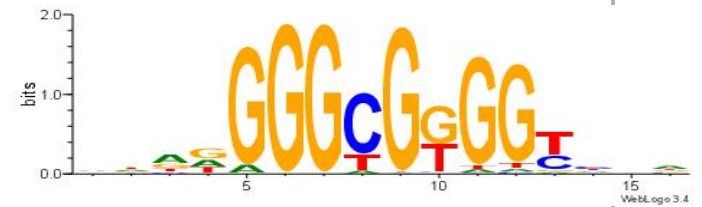
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHH DGGGCGRGGKHBH




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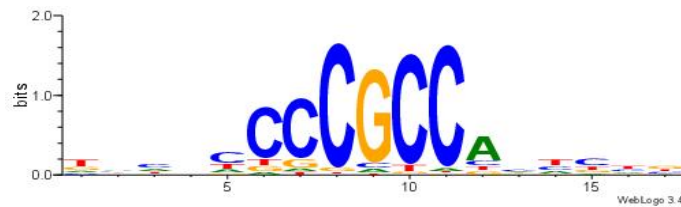
Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.00741351

Alignment:

DHHBCCCCGCCAHHBHB  
-CSKCCCCGCCCSY--

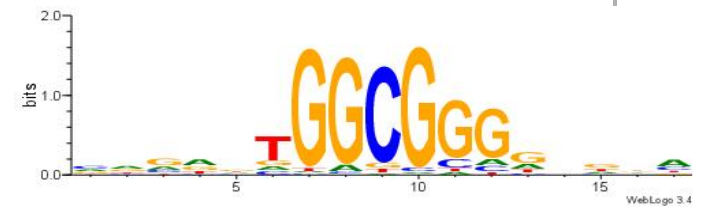
Original motif

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: 1  
Number of overlap: 14  
Similarity score: 0.0114155

Alignment:

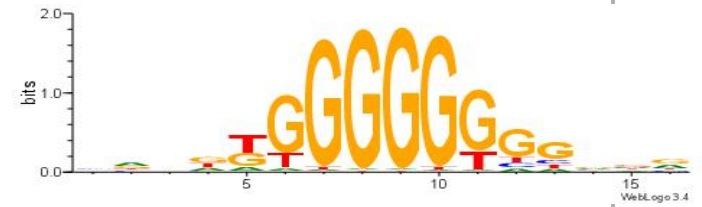
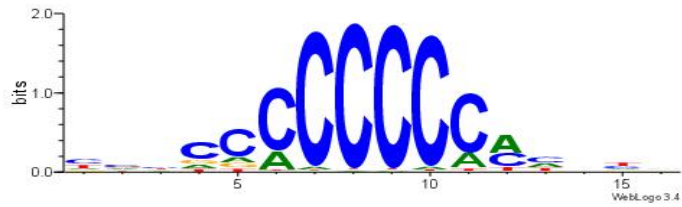
HVBCCCCCCCCMHHHB  
CSKCCCCGCCCSY--

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGBVD

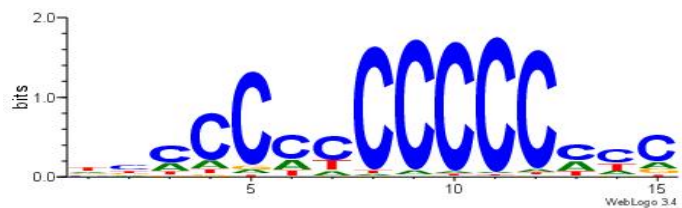


Motif ID: [UP00021](#)  
 Motif name: Zfp281\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0133301

Alignment:  
 DBCCCCCCCCMYC  
 -CSKCCCCGCCCSY

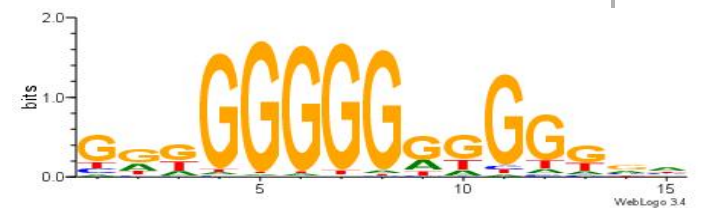
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00033](#)

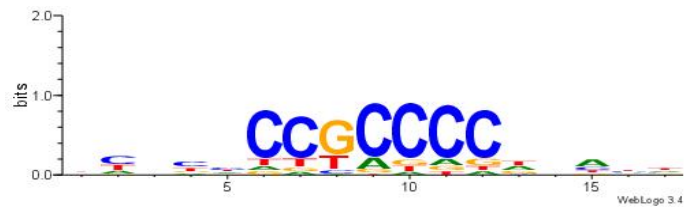
Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0158143

**Alignment:**

HHHHDGGGGCGGDBHDV  
 ---MSGGGGCGGGYSG

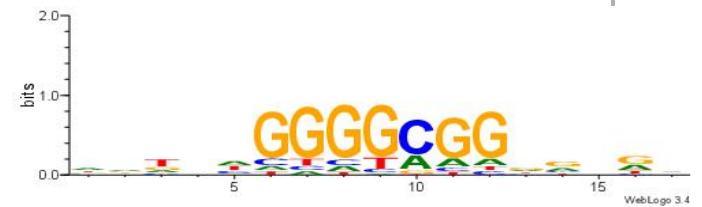
**Original motif**

Consensus sequence: BHHBHCCGCCCCDHHHH



**Reverse complement motif**

Consensus sequence: HHHHDGGGGCGGDBHDV




---

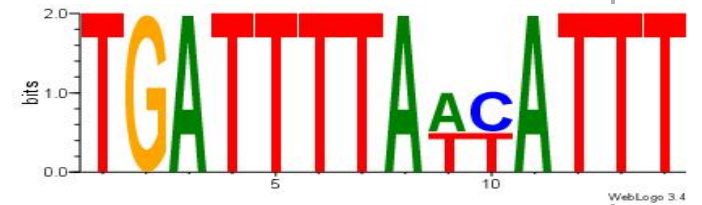
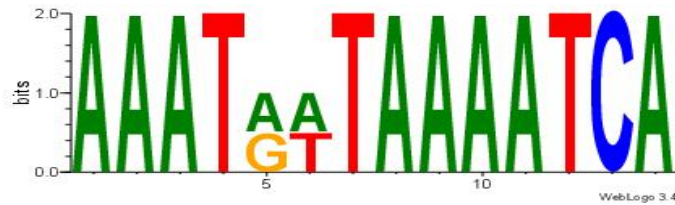
**Dataset #: 2      Motif ID: 8      Motif name: Motif 8**

**Original motif**

Consensus sequence: AAATRWATAAATCA

**Reverse complement motif**

Consensus sequence: TGATTTAWKATTT



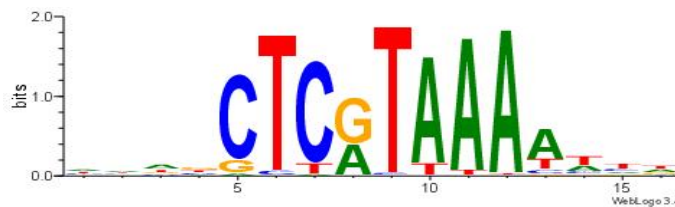
### Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID: [UP00173](#)  
 Motif name: Hoxc13  
 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: 0.0325737

Alignment:  
 DHWTTTTAMGAGBDHH  
 TGATTTTAWKATTT--

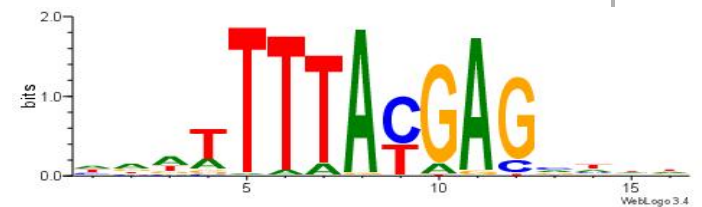
#### Original motif

Consensus sequence: HHDBCTCRATAAAWHD



#### Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH





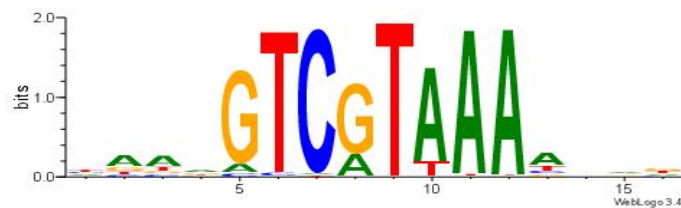
Motif ID: [UP00235](#)  
Motif name: Hoxc11  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 14  
Similarity score: 0.036026

Alignment:

```
HDHTTTTACGACDTTH  
TGATTTTAWKATTT--
```

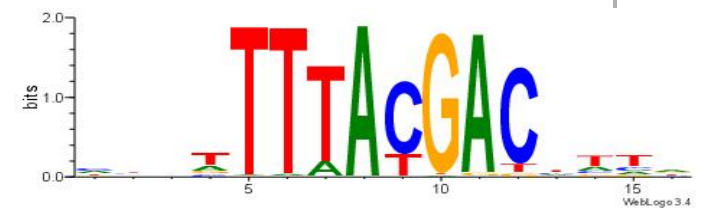
Original motif

Consensus sequence: HAADGTCGTAAAHHDD



Reverse complement motif

Consensus sequence: HDHTTTTACGACDTTH



Motif ID: [UP00183](#)  
Motif name: Hoxa13  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1

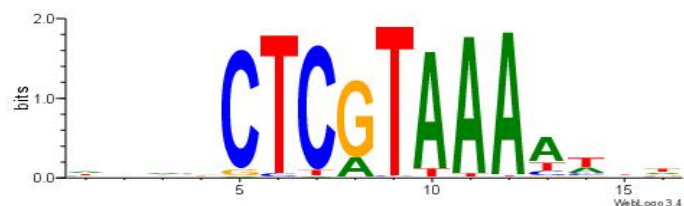
Number of overlap: 14  
Similarity score: 0.0380573

Alignment:

DVWTTTTACGAGBHDH  
TGATTTTAWKATTT--

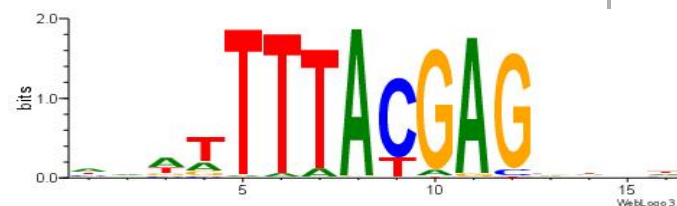
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTTACGAGBHDH



---

Motif ID: [UP00246](#)  
Motif name: Hoxa11  
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: 0.039136

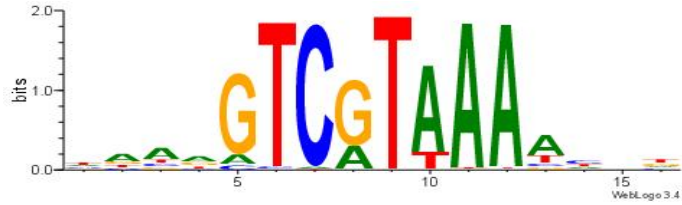
Alignment:

DDTTTTTACGACDTH  
TGATTTTAWKATTT--

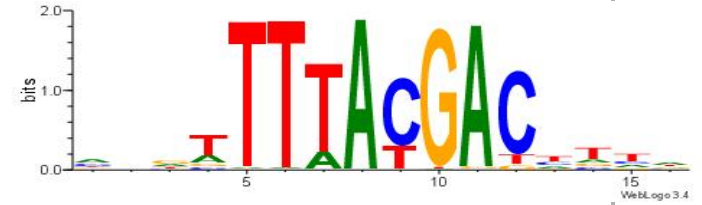
Original motif

Reverse complement motif

Consensus sequence: HDADGTCGTAAAHHDD



Consensus sequence: DDDTTTACGACDTH



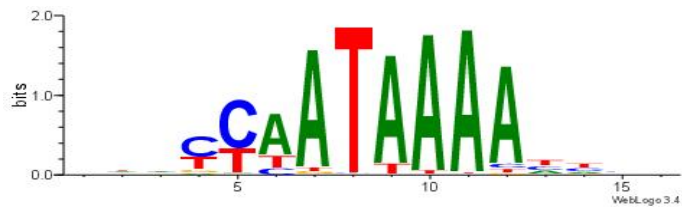
Motif ID: [UP00180](#)  
Motif name: Hoxd13  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0391372

Alignment:

```
HDHYAATAAAAHHHH  
-AAATRWATAAATCA-
```

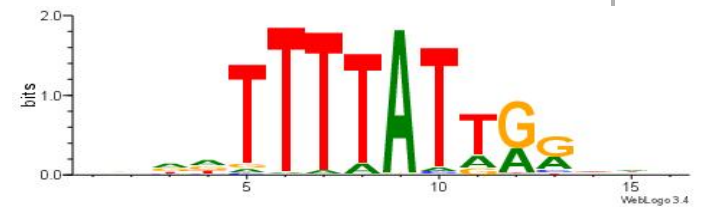
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



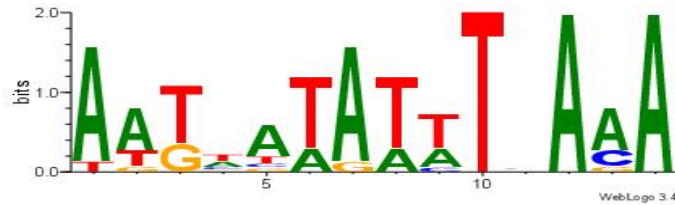
**Dataset #: 2**

**Motif ID: 9**

**Motif name: Motif 9**

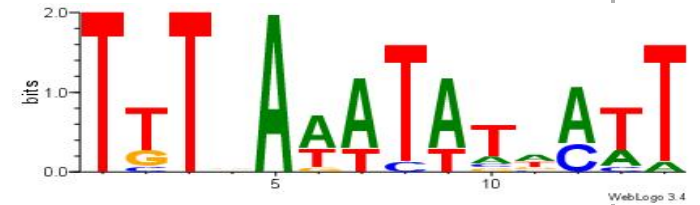
Original motif

Consensus sequence: AATHATATWTHAAA



Reverse complement motif

Consensus sequence: TTTDAWATATHATT



### Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	<a href="#">UP00090</a>
Motif name:	Elf3_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:	0.0521335

Alignment:

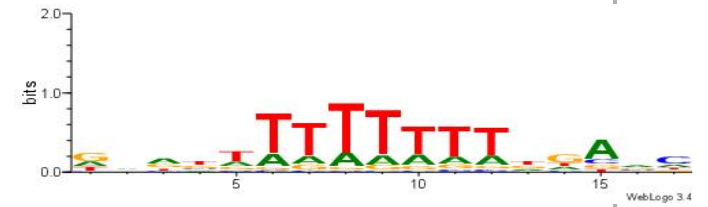
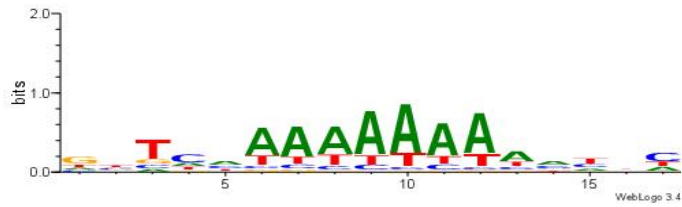
```
DBTHHAAAAAAAAAVHDH  
--TTTDAWATATHATT-
```

Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH

Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH

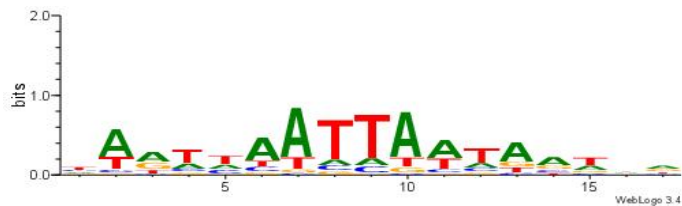


Motif ID: [UP00255](#)  
 Motif name: Dbx1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0522843

Alignment:  
 DHDBTAWTAATTHAKTH  
 --TTTDAWATATHATT--

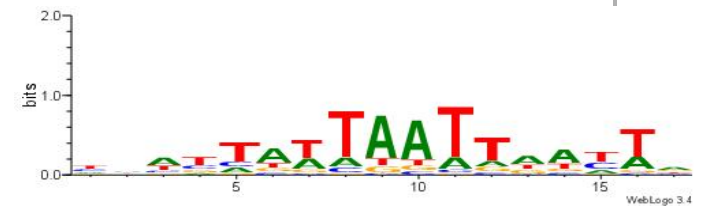
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



Motif ID: [UP00091](#)

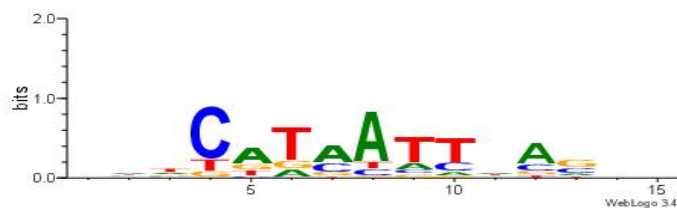
Motif name: Sox5\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0548459

**Alignment:**

DHDCATMATTDASDD  
 AATHATATWTHAAA-

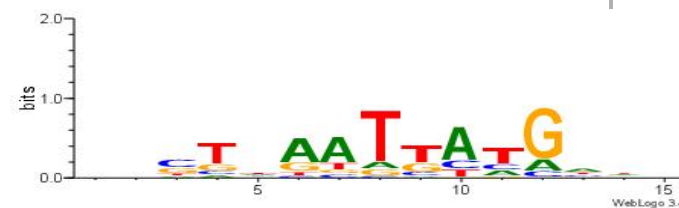
**Original motif**

Consensus sequence: DHDCATMATTDASDD



**Reverse complement motif**

Consensus sequence: DHSTDAATYATGDHD




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

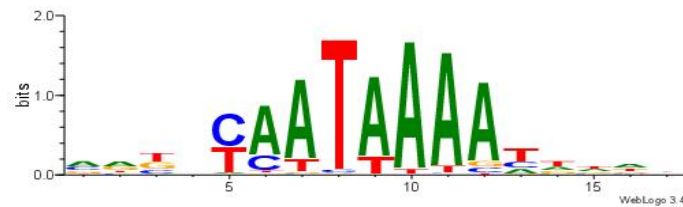
Similarity score: 0.0549685

Alignment:

HDDDATTTTATTKVRDB  
---AATHATATWTHAAA

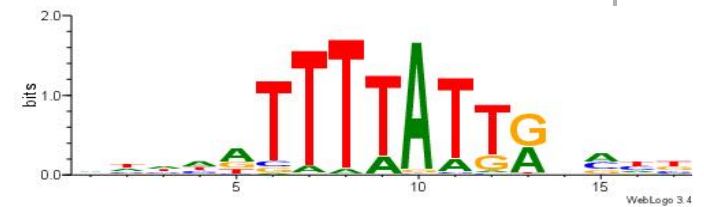
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00078](#)  
Motif name: Arid3a\_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: 14  
Similarity score: 0.0553164

Alignment:

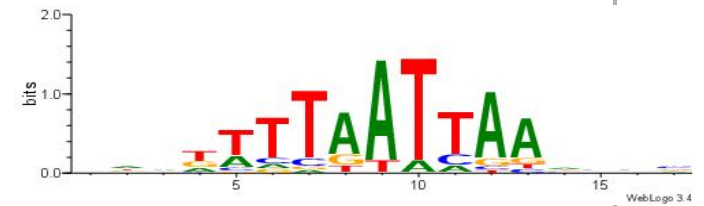
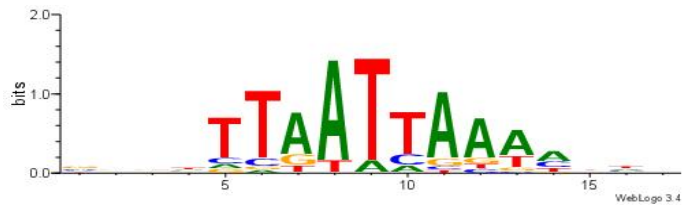
VBBHTTAATTAAAMHHH  
AATHATATWTHAAA---

Original motif

Consensus sequence: VBBHTTAATTAAAMHHH

Reverse complement motif

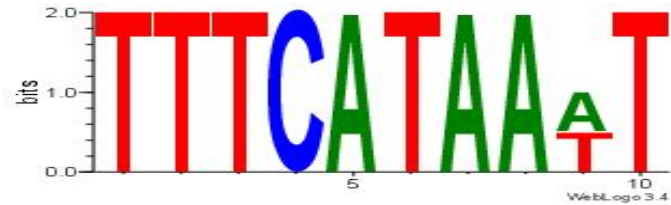
Consensus sequence: DHHYTTTAATTAAHBBV



**Dataset #: 2      Motif ID: 10      Motif name: Motif 10**

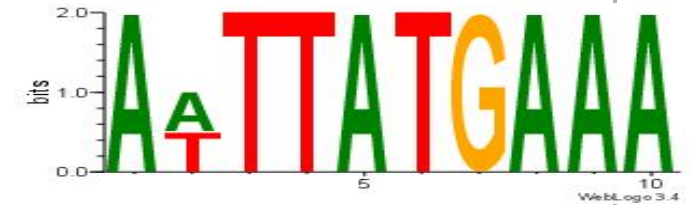
Original motif

Consensus sequence: TTTTCATAAWT



Reverse complement motif

Consensus sequence: AWTTATGAAA



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

Motif ID:	<a href="#">UP00118</a>
Motif name:	Pou4f3
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:	0.017789

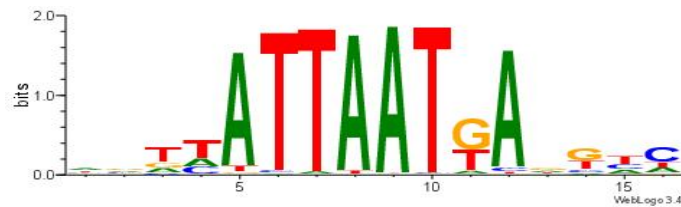
Alignment:



GHYHTYATTAATAAVH  
--TTCATAAWT-----

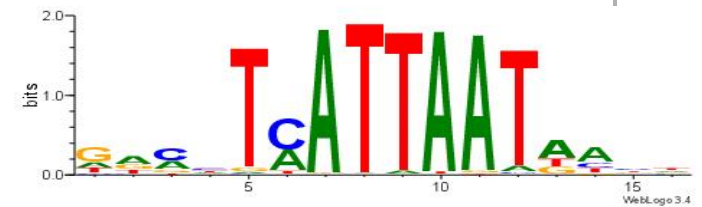
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



Motif ID: [UP00211](#)  
Motif name: Pou3f3  
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: 0.0192304

Alignment:

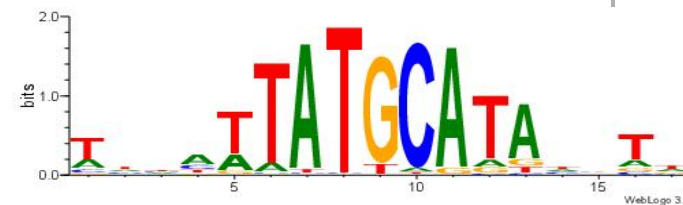
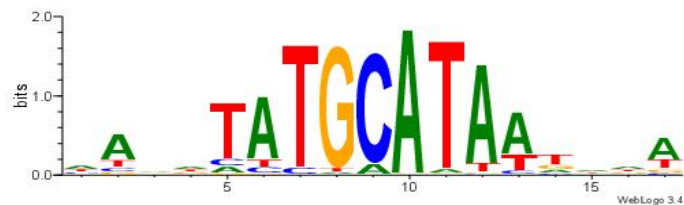
HADDTATGCATAATDDA  
-----TTCATAAWT--

Original motif

Consensus sequence: HADDTATGCATAATDDA

Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH

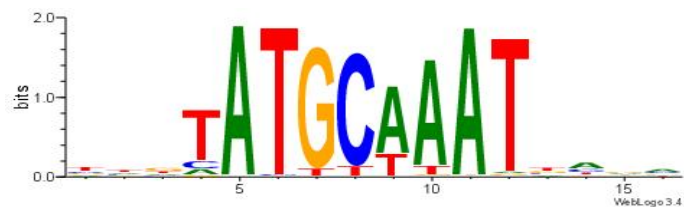


Motif ID: [UP00179](#)  
 Motif name: Pou2f3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.0193076

Alignment:  
 BHDTATGCAAATBHDV  
 AWTATGAAA-----

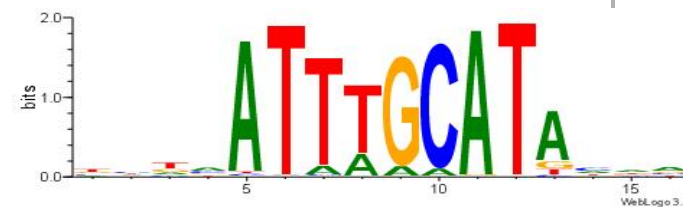
Original motif

Consensus sequence: BHDTATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



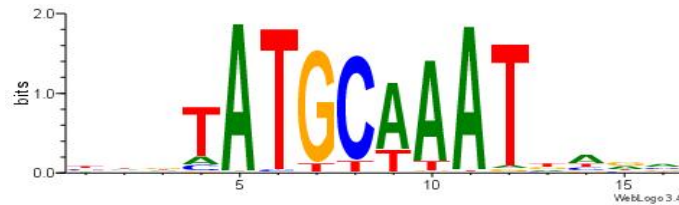
Motif ID: [UP00191](#)

Motif name: Pou2f2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 10  
 Similarity score: 0.0200501

Alignment:  
 BHD TATGCAAATDHDV  
 -----TTCATAAWT

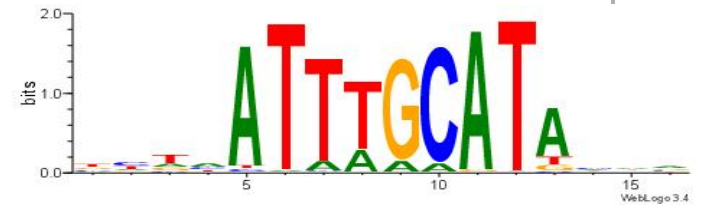
Original motif

Consensus sequence: BHD TATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



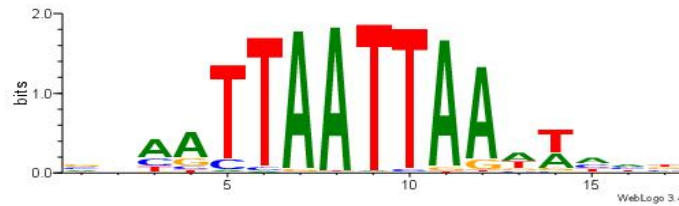
Motif ID: [UP00130](#)  
 Motif name: Lhx3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 10  
 Similarity score: 0.020314

Alignment:

```
VHHWTTAATTAATTDV  
----TTTCATAAWT----
```

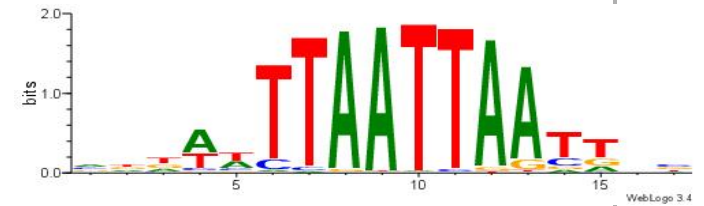
Original motif

Consensus sequence: VDAATTAATTAAWWHHB



Reverse complement motif

Consensus sequence: VHHWTTAATTAATTDV



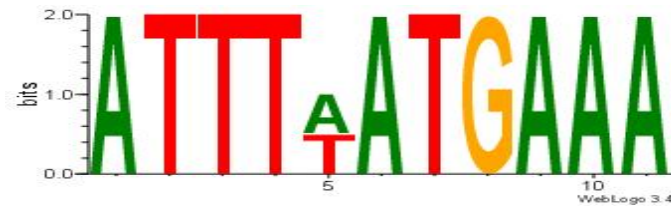
**Dataset #: 2**

**Motif ID: 11**

**Motif name: Motif 11**

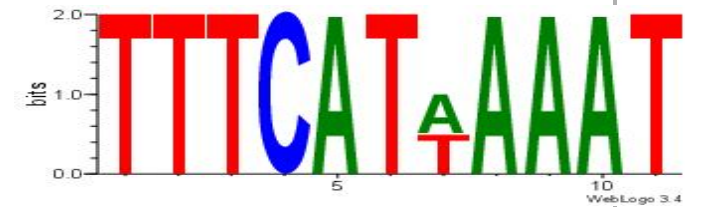
Original motif

Consensus sequence: ATTTWATGAAA



Reverse complement motif

Consensus sequence: TTTCATWAAAT



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

Motif ID:	<a href="#">UP00130</a>
Motif name:	Lhx3
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: 0.0235917

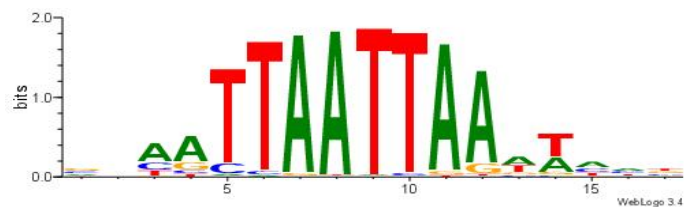
Alignment:

VHHWTTAATTAATTDV

----TTTCATWAAAT--

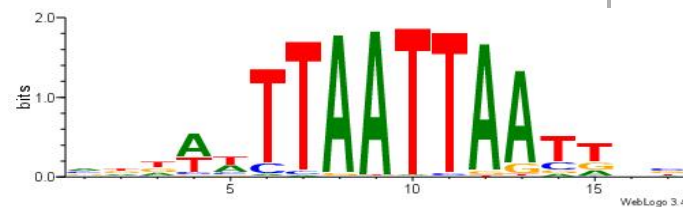
Original motif

Consensus sequence: VDAATTAATTAAWWHB



Reverse complement motif

Consensus sequence: VHHWTTAATTAATTDV



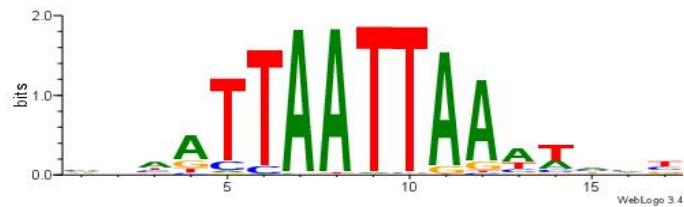
Motif ID: [UP00212](#)  
 Motif name: Lhx5  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0238582

Alignment:

VDHWTTTAATTAATHHV  
---ATTTWATGAAA---

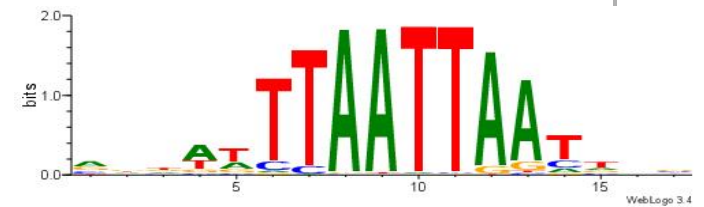
Original motif

Consensus sequence: VDHATTAATTAAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAATTAATHHV



Motif ID: [UP00173](#)  
Motif name: Hoxc13  
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: 0.024458

Alignment:

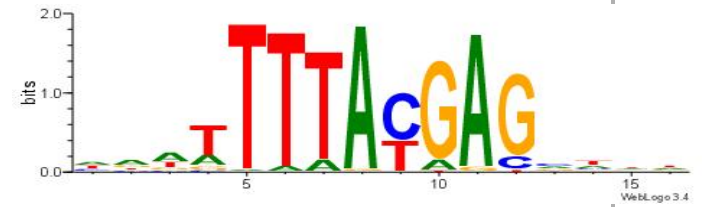
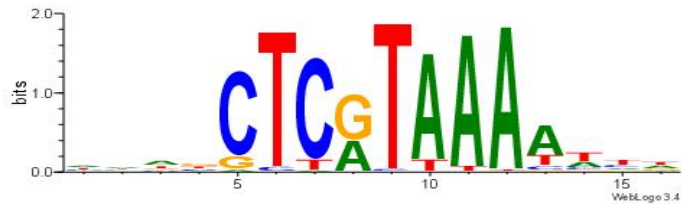
HHDBCTCRTAAAWHD  
---TTTCATWAAAT--

Original motif

Consensus sequence: HHDBCTCRTAAAWHD

Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH

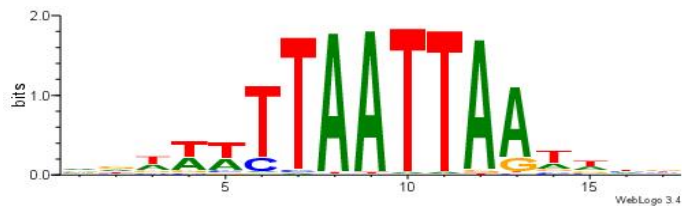


Motif ID: [UP00169](#)  
 Motif name: Lmx1b  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0247146

Alignment:  
 VDWWWTTAATTAATDHB  
 ----TTTCATWAAAT--

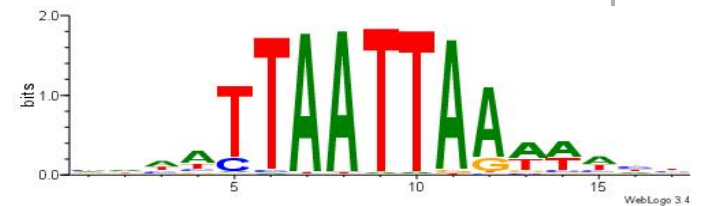
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00188](#)

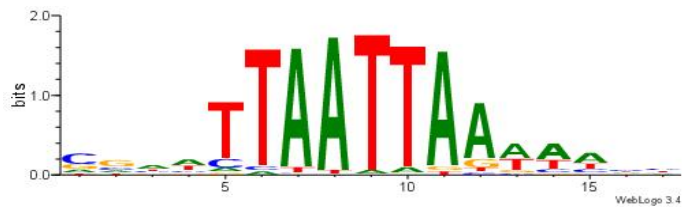
Motif name: Lmx1a  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0250542

**Alignment:**

CVHHTTAATTAAWWWHB  
 --ATTTWATGAAA-----

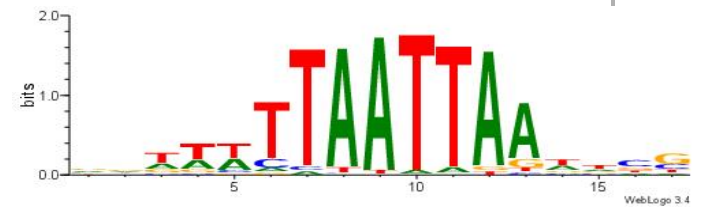
**Original motif**

Consensus sequence: CVHHTTAATTAAWWWHB



**Reverse complement motif**

Consensus sequence: BDWWWTTAATTAHHVG




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

**Original motif**

Consensus sequence: AAAACAAA

**Reverse complement motif**

Consensus sequence: TTTGTTTT





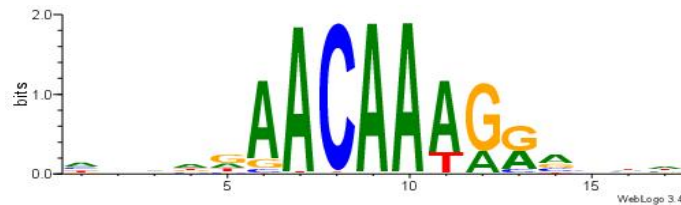
### Best Matches for Motif ID 12 (Highest to Lowest)

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: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0

Alignment:  
 HBDDDAACAAAGRVBHH  
 ---AAAACAAA-----

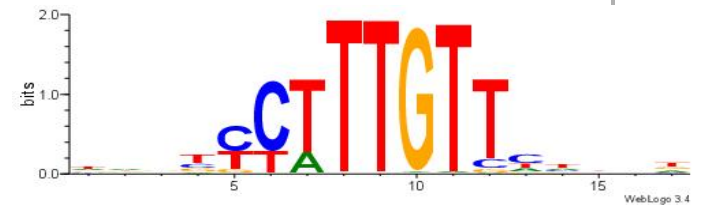
#### Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



#### Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

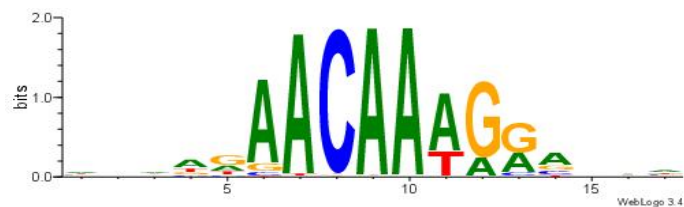


Motif ID: [UP00030](#)  
 Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.000282957

Alignment:  
 HBDDRAACAAAGRABHH  
 ---AAAACAAA-----

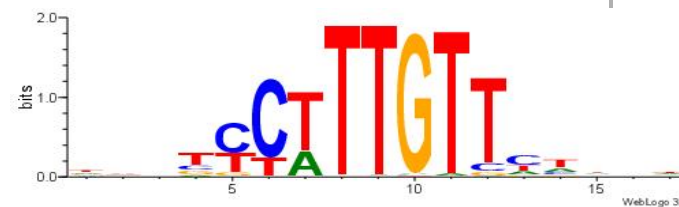
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH

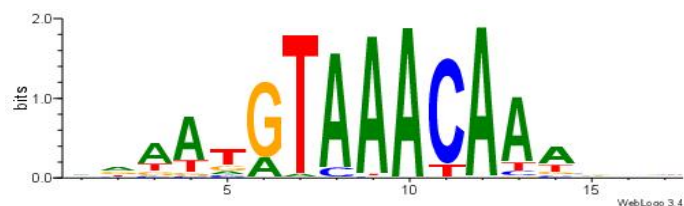


Motif ID: [UP00025](#)  
 Motif name: Foxk1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4

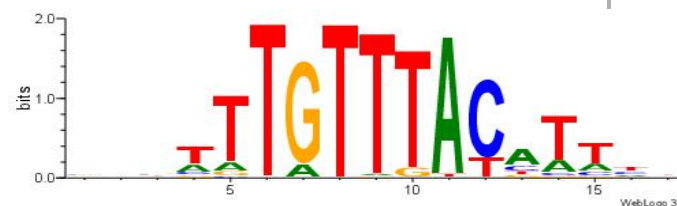
Number of overlap: 8  
Similarity score: 0.00309128

Alignment:  
BBVTTTGTTTACATTDD  
---TTTGTTTT-----

Original motif  
Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif  
Consensus sequence: BBVTTTGTTTACATTDD



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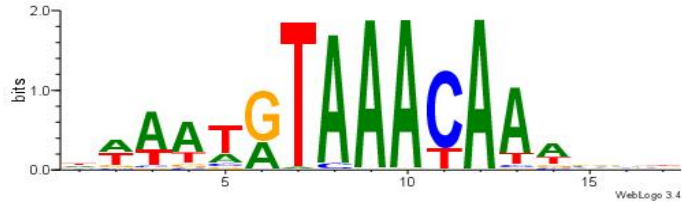
Motif ID: [UP00061](#)  
Motif name: Foxl1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00620509

Alignment:  
VVVWTTTGTTTAMATTWD  
---TTTGTTTT-----

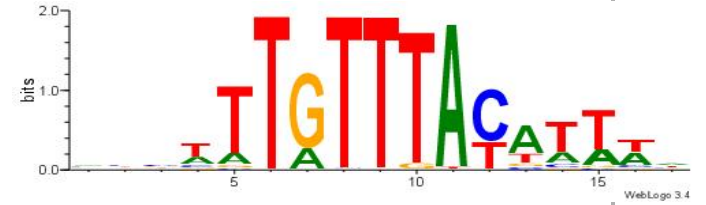
Original motif

Reverse complement motif

Consensus sequence: DWAATR~~T~~AACA~~A~~WVVB



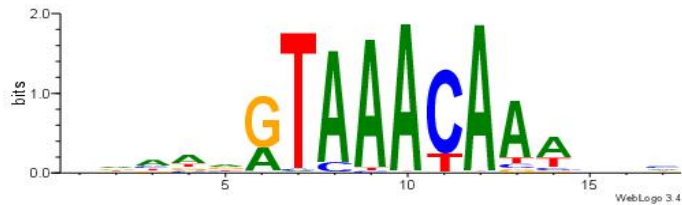
Consensus sequence: VVVWTTGTTTAMATTWD



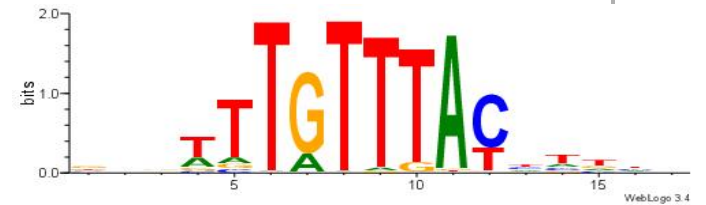
Motif ID: [UP00039](#)  
Motif name: Foxj3\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00680733

Alignment:  
DVVTTTGT~~T~~TACDTHDH  
---TTTGT~~T~~TTT-----

Original motif  
Consensus sequence: HDHADGTAACA~~A~~AVVH



Reverse complement motif  
Consensus sequence: DVVTTTGT~~T~~TACDTHDH



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

Original motif

Consensus sequence: AAAGATTT



Reverse complement motif

Consensus sequence: AAATCTTT



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

Motif ID:	<a href="#">UP00114</a>
Motif name:	Homez
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:	0.00327586

Alignment:

AHWWMATCGTTTTBADD

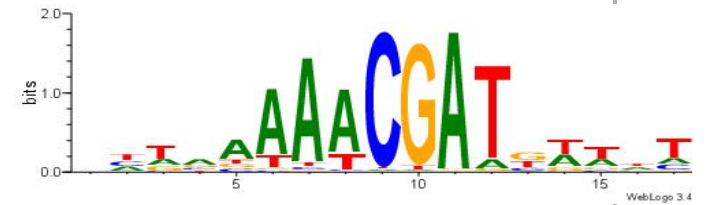
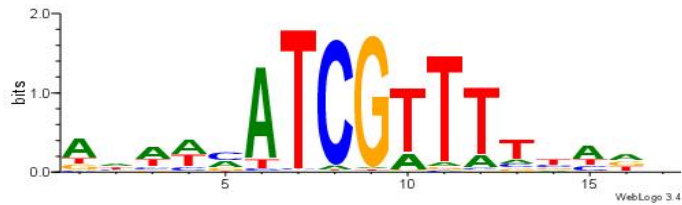
---AAATCTTT-----

Original motif

Consensus sequence: AHWWMATCGTTTTBADD

Reverse complement motif

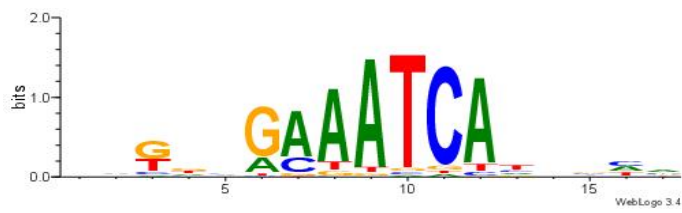
Consensus sequence: HDTVAAAACGATRWWHT



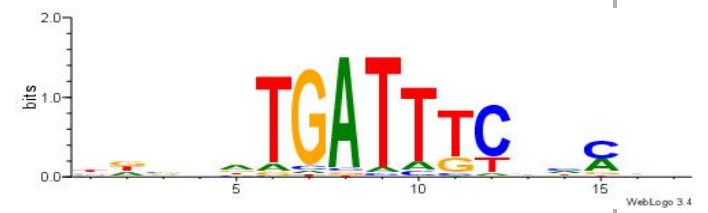
Motif ID: [UP00148](#)  
 Motif name: Hdx  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.0107572

Alignment:  
 DDKDHGAAATCAHBBHV  
 -----AAATCTTT----

Original motif  
 Consensus sequence: DDKDHGAAATCAHBBHV



Reverse complement motif  
 Consensus sequence: BDBDHTGATTTCDHYDD



Motif ID: [UP00080](#)

Motif name: Gata5\_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: 0.0119733

**Alignment:**

VVBHRAGATATCWDHBB  
 ---AAAGATTT-----

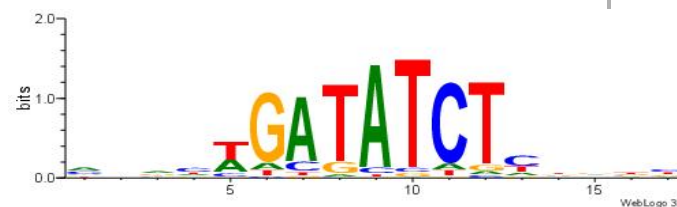
**Original motif**

Consensus sequence: VVBHRAGATATCWDHBB



**Reverse complement motif**

Consensus sequence: VVHHWGATATCTMHBBV




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Motif ID: [UP00059](#)  
 Motif name: Arid5a\_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: 8

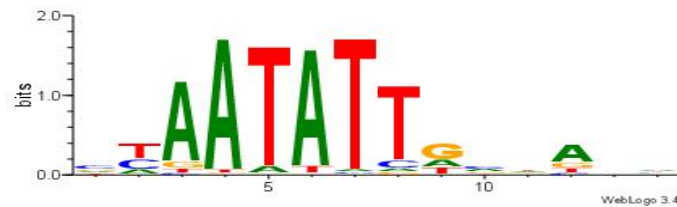
Similarity score: 0.0140725

Alignment:

HDTDVCAATATTMV  
-----AAAGATTT-

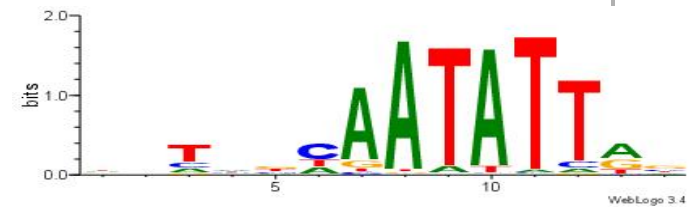
Original motif

Consensus sequence: VYAATATTGVDADH



Reverse complement motif

Consensus sequence: HDTDVCAATATTMV



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: 9  
Number of overlap: 8  
Similarity score: 0.0151544

Alignment:

VDDAGATCAAAGGKDDD  
-----AAAGATTT-

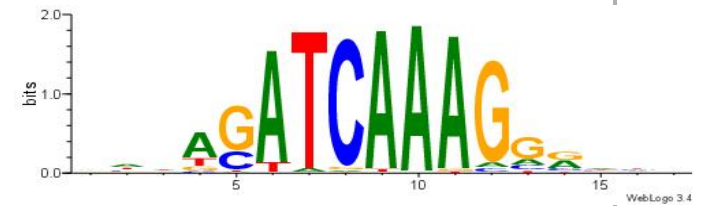
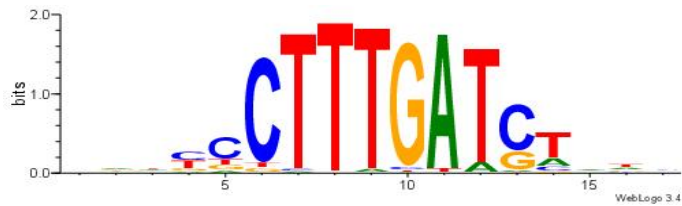
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD





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

Original motif

Consensus sequence: AWAATAA



Reverse complement motif

Consensus sequence: TTATTTWT



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

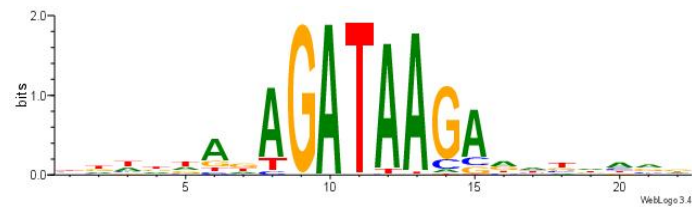
Motif ID:	<a href="#">UP00032</a>
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.00506466

Alignment:

HBHDVHDTCTTATCTHTDDHDV  
-----TTATTTWT-----

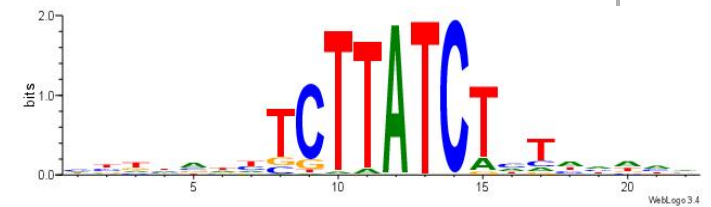
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



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: 5  
Number of overlap: 8  
Similarity score: 0.00546278

Alignment:

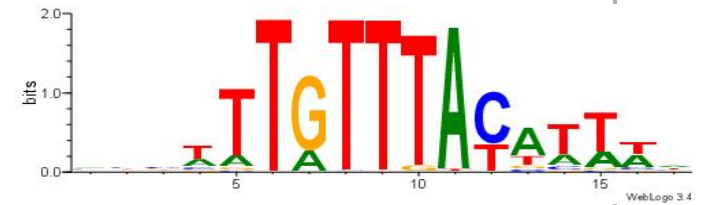
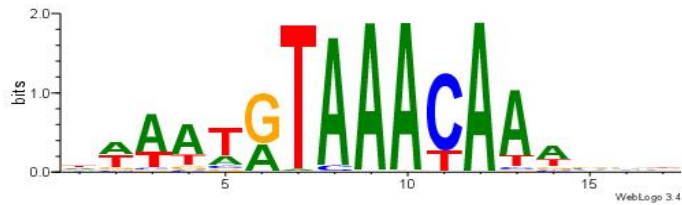
DWAATR TAAACAAWVVB  
-----AWAAATAA-----

Original motif

Consensus sequence: DWAATR TAAACAAWVVB

Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD

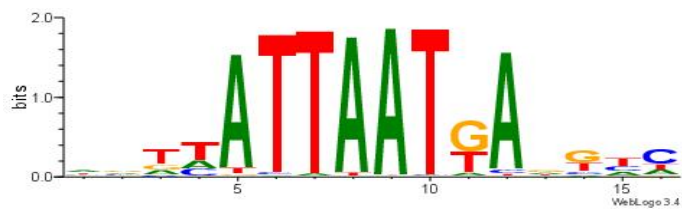


Motif ID: [UP00118](#)  
 Motif name: Pou4f3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 8  
 Similarity score: 0.00832205

Alignment:  
 GHYHTYATTAATAAVH  
 ----TTATTTWT----

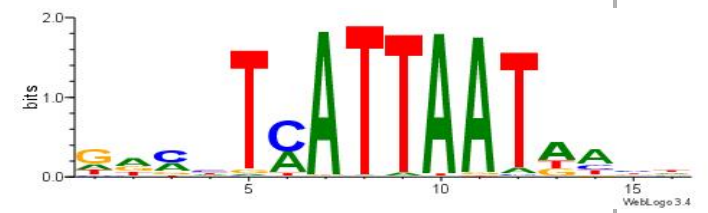
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



Motif ID: [UP00037](#)

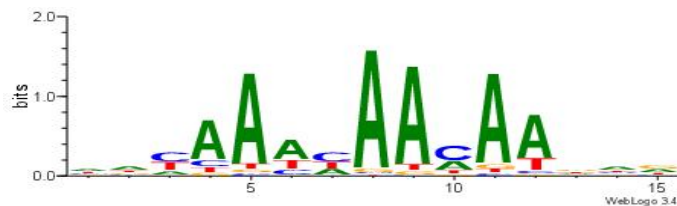
Motif name: Zfp105\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.00912866

Alignment:

HHHTTRTTDTTTKDH  
 ---TTATTTWT----

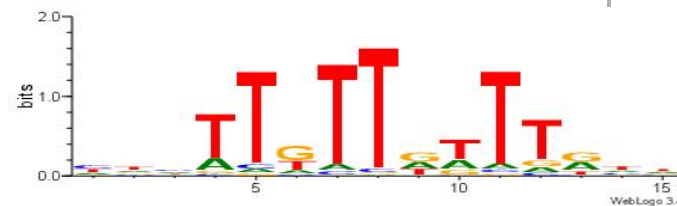
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH




---

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: 8

Similarity score: 0.0105685

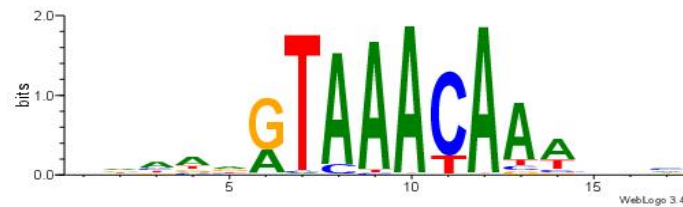
Alignment:

HDHADGTAAACAAAVVH

-----AWAAATAA-----

Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

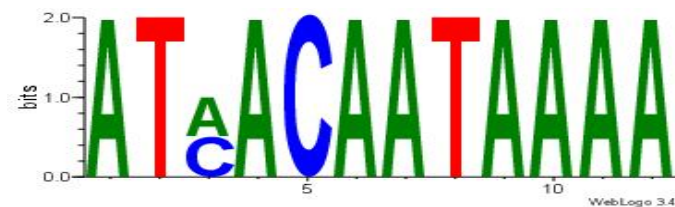
Consensus sequence: DVVTTTGTTCACDTHDH



**Dataset #: 2 Motif ID: 15 Motif name: Motif 15**

Original motif

Consensus sequence: ATMACAATAAAA



Reverse complement motif

Consensus sequence: TTTTATTGTAT



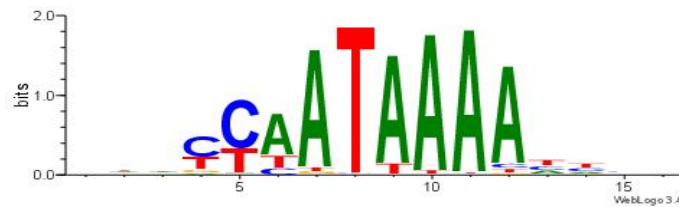
### Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID:	<a href="#">UP00180</a>
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

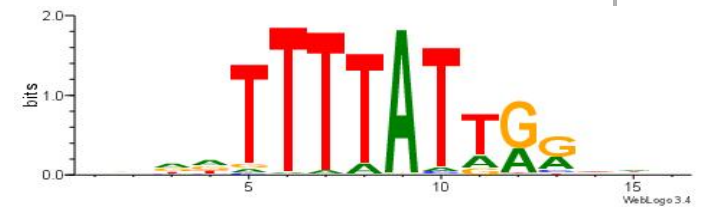
Direction: Backward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.00878905

Alignment:  
HDHHTTTTATTKKHDD  
----TTTTATTGTYAT

Original motif  
Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif  
Consensus sequence: HDHHTTTTATTKKHDD



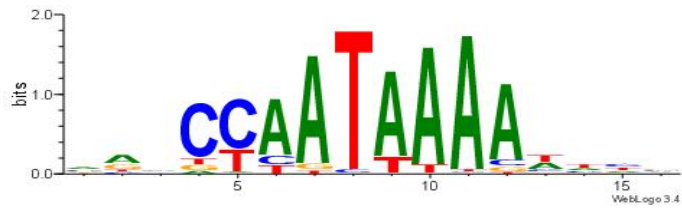
---

Motif ID: [UP00134](#)  
Motif name: Hoxb13  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0162131

Alignment:  
VRHCCAATAAAWHHV  
ATMACAATAAAA----

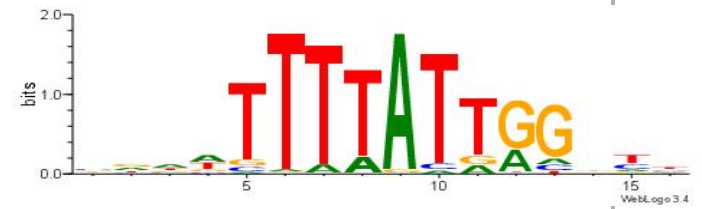
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



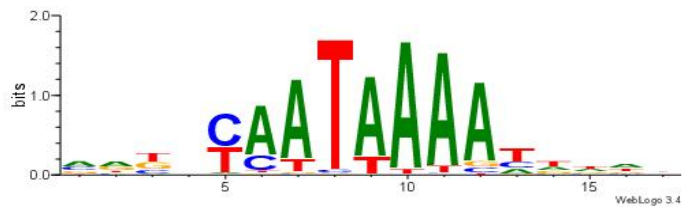
Motif ID: [UP00121](#)  
 Motif name: Hoxd10  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 12  
 Similarity score: 0.0246749

Alignment:

VDKVYAATAAAATDDDH  
 ATMACAATAAAA-----

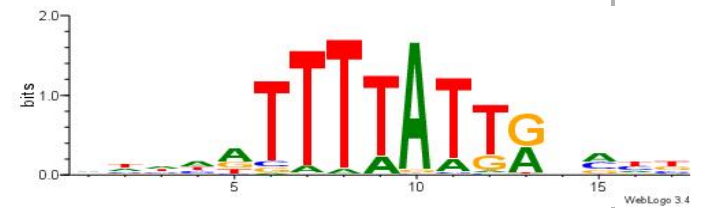
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



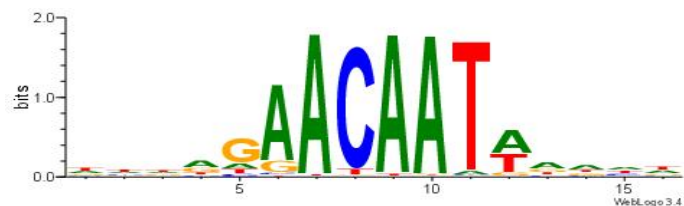
Motif ID: [UP00091](#)  
Motif name: Sox5\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 12  
Similarity score: 0.0247927

Alignment:

DHDDWATTGTTCCDDHD  
-TTTTATTGTYAT---

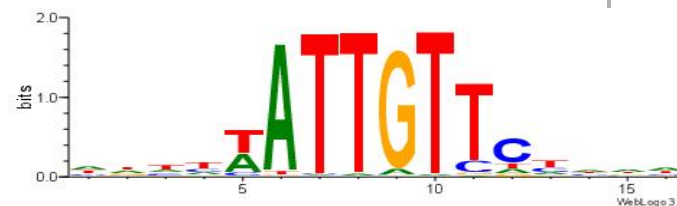
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCCDDHD



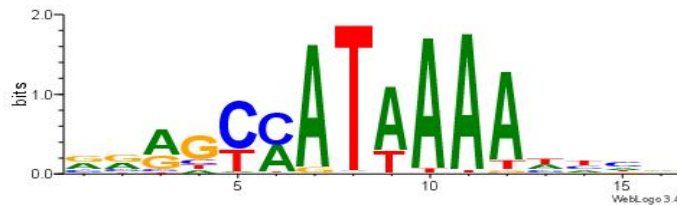
Motif ID: [UP00207](#)  
Motif name: Hoxb9  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward



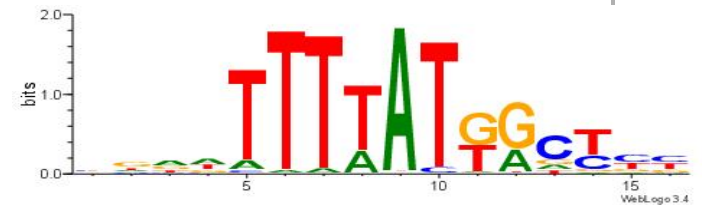
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0248315

Alignment:  
VRRGCMATAAAAHHHD  
ATMACAATAAAA----

Original motif  
Consensus sequence: VRRGCMATAAAAHHHD

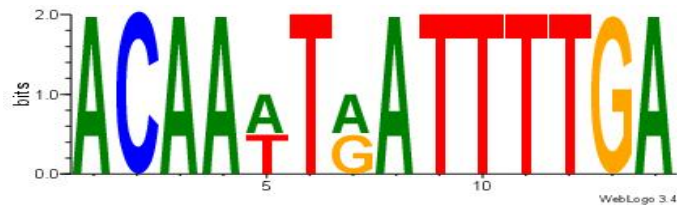


Reverse complement motif  
Consensus sequence: HDHHTTTTATRGCKMV

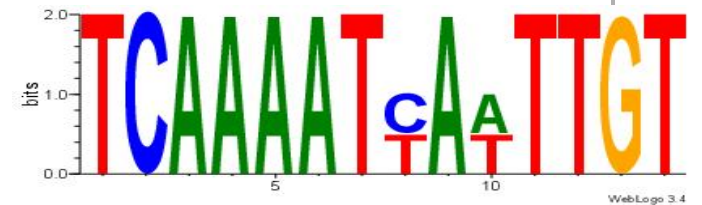


**Dataset #: 2      Motif ID: 16      Motif name: Motif 16**

Original motif  
Consensus sequence: ACAAWTRATTTTGA



Reverse complement motif  
Consensus sequence: TCAAAATKAWTTGT



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

Motif ID: [UP00034](#)  
Motif name: Sox7\_primary

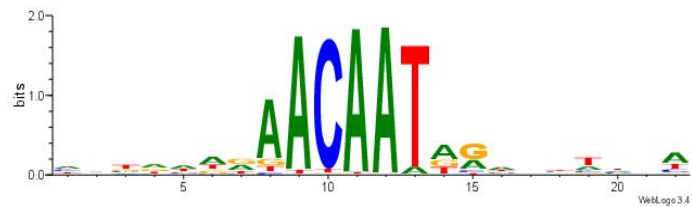
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0530035

**Alignment:**

HHBDHDDAACAATDRHHHHHBW  
 -----ACAAWTRATTTTGA

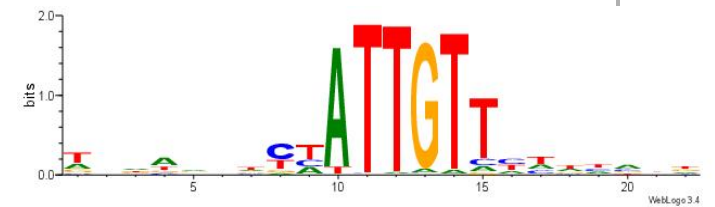
**Original motif**

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



**Reverse complement motif**

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH




---

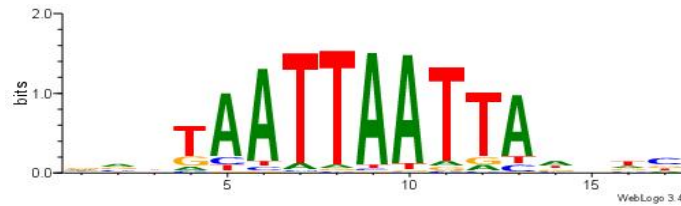
Motif ID: [UP00158](#)  
 Motif name: Pou1f1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.059328

Alignment:

BDHDTAATTAATTADBH  
-TCAAATKAWTTGT--

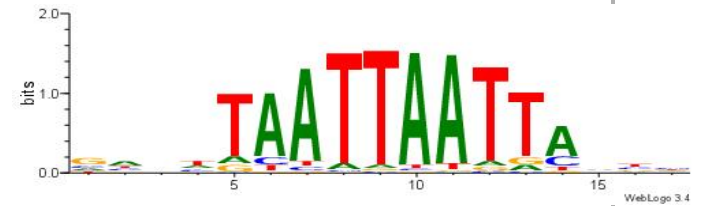
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



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Motif ID:	<a href="#">UP00128</a>
Motif name:	Pou3f2
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:	0.0618019

Alignment:

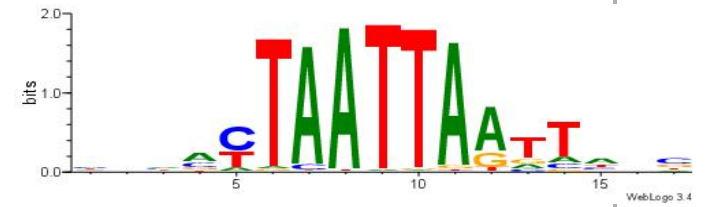
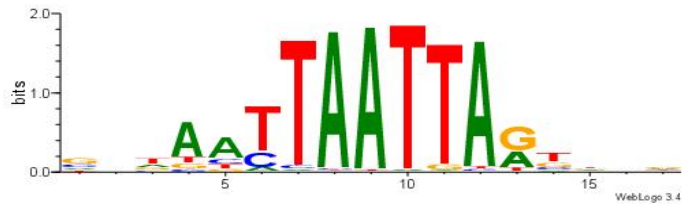
HHDVMTAATTAATTDDV  
--TCAAATKAWTTGT-

Original motif

Consensus sequence: VDDAATTAATTARBDHD

Reverse complement motif

Consensus sequence: HHDVMTAATTAATTDDV

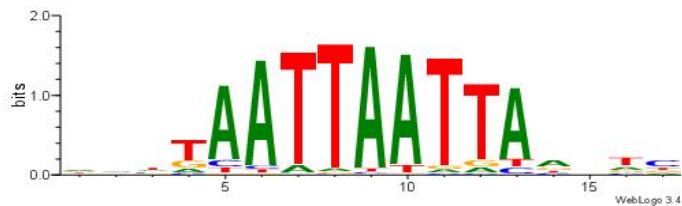


Motif ID: [UP00105](#)  
 Motif name: Pou3f4  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0620147

Alignment:  
 BDDDTAATTAATTAHBD  
 -TCAAAATKAWTTGT--

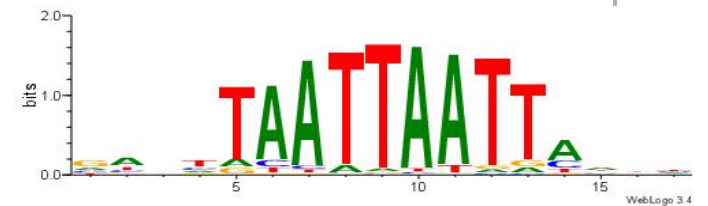
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



Motif ID: [UP00200](#)

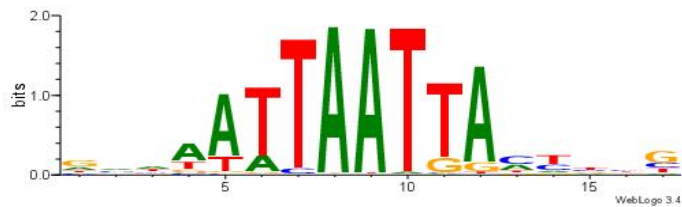
Motif name: Nkx6-1\_2825.1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0623004

**Alignment:**

CBVMRTAATTAATTHBH  
 --TCAAAATKAWTTGT-

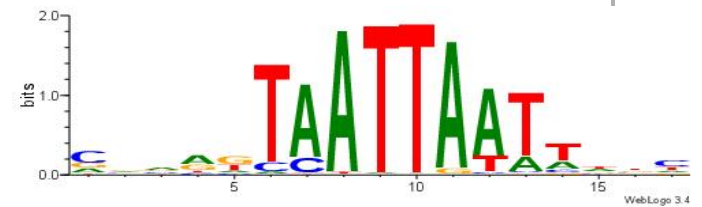
**Original motif**

Consensus sequence: DVHAATTAATTAMYBBG



**Reverse complement motif**

Consensus sequence: CBVMRTAATTAATTHBH



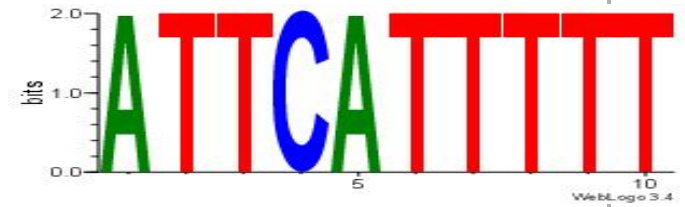
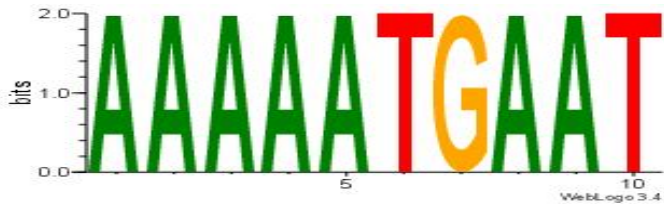
**Dataset #: 2      Motif ID: 17      Motif name: Motif 17**

**Original motif**

Consensus sequence: AAAAAATGAAT

**Reverse complement motif**

Consensus sequence: ATTCATTTTT



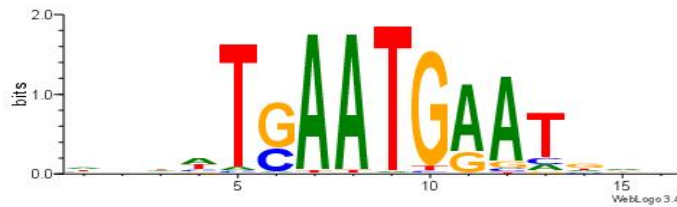
### Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID: [UP00055](#)  
 Motif name: Hbp1\_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: 0.00216896

Alignment:  
 HHDWTSAAATGAATDDB  
 ---AAAAATGAAT---

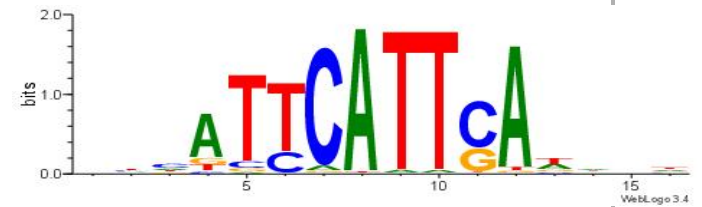
#### Original motif

Consensus sequence: HHDWTSAAATGAATDDB



#### Reverse complement motif

Consensus sequence: VDHATTCAATSAWDDH

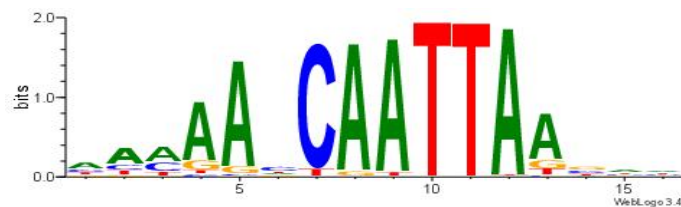


Motif ID: [UP00145](#)  
 Motif name: Barhl2  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.010273

Alignment:  
 HMAAAHCAATTAABHH  
 AAAAAATGAAT-----

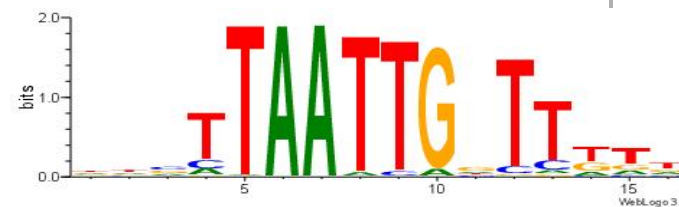
Original motif

Consensus sequence: HMAAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTYTH

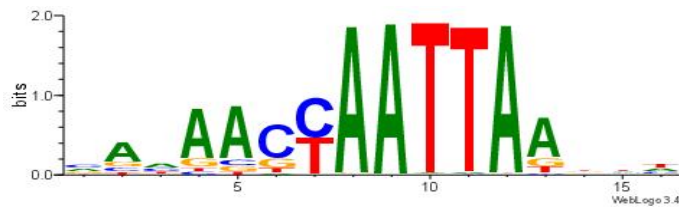


Motif ID: [UP00171](#)  
 Motif name: Msx3  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3

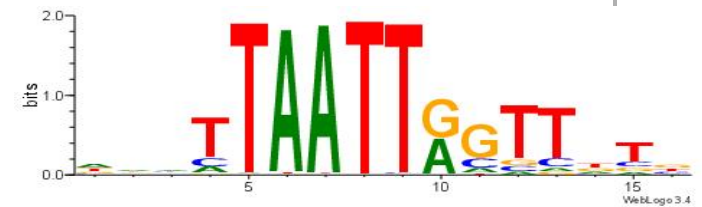
Number of overlap: 10  
Similarity score: 0.0106868

Alignment:  
HHVTTAATTKGTTHTV  
--ATTCATTTTT----

Original motif  
Consensus sequence: VAHAACYAATTAABHH



Reverse complement motif  
Consensus sequence: HHVTTAATTKGTTHTV



Motif ID: [UP00044](#)  
Motif name: Mafk\_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: 0.0131738

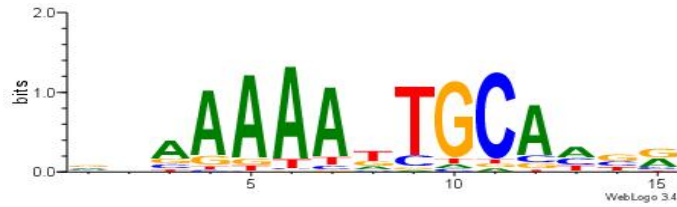
Alignment:  
MBHTGCADTTTTTHV  
--ATTCATTTTT---

Original motif

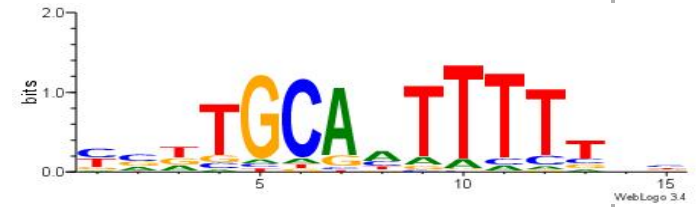
Reverse complement motif



Consensus sequence: VHAAAADTGAHBR



Consensus sequence: MBHTGCADTTTTTHV



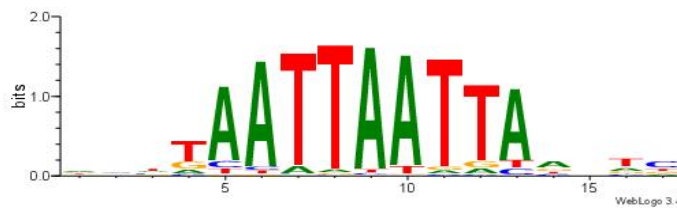
Motif ID: [UP00105](#)  
Motif name: Pou3f4  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 7  
Number of overlap: 10  
Similarity score: 0.0157045

Alignment:

```
DVHTAATTAATTADDDDB  
-AAAAATGAAT-----
```

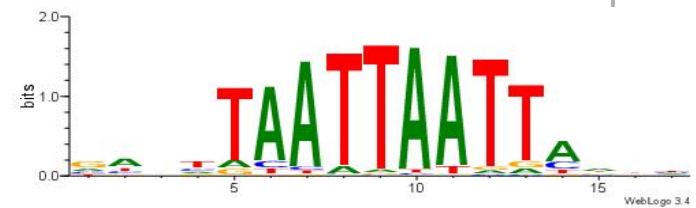
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



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

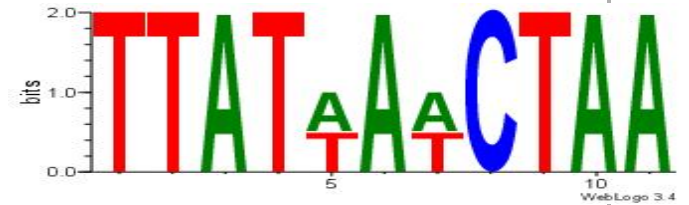
Original motif

Consensus sequence: TTAGWTWATAA



Reverse complement motif

Consensus sequence: TTATWAWCTAA



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

Motif ID:	<a href="#">UP00262</a>
Motif name:	Lhx1
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:	0.0358953

Alignment:

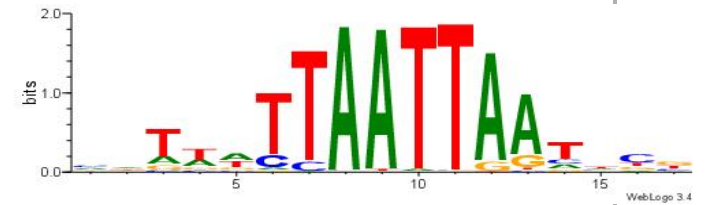
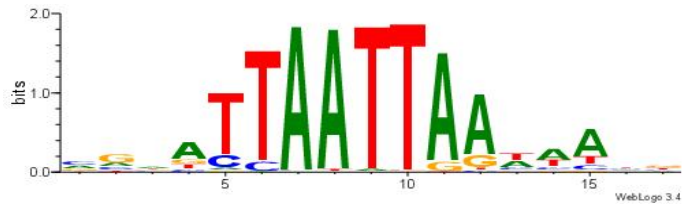
```
VVDATTAATTAAWWAHB  
----TTAGWTWATAA--
```

Original motif

Consensus sequence: VVDATTAATTAAWWAHB

Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV

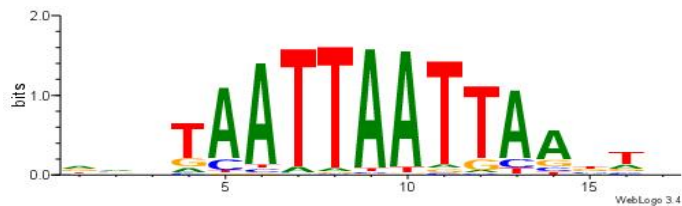


Motif ID: [UP00129](#)  
 Motif name: Pou3f1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.038042

Alignment:  
 DAVTTAATTAATTAVBD  
 ---TTAGWTWATAA---

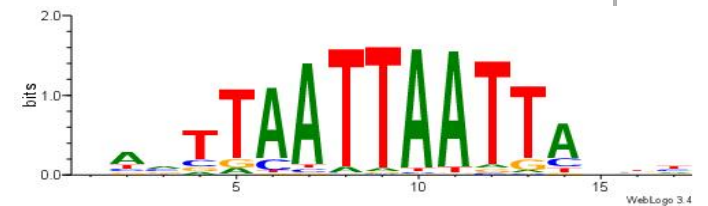
Original motif

Consensus sequence: DVBTAAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



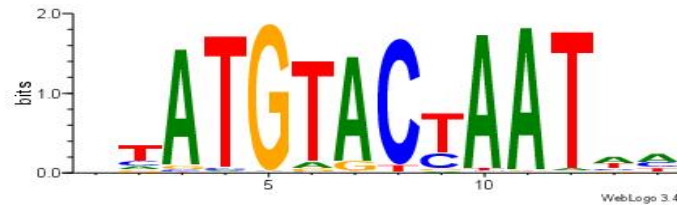
Motif ID: [UP00082](#)

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: 1  
 Number of overlap: 11  
 Similarity score: 0.0384021

Alignment:  
 BTATGTACTAATWH  
 ---TTAGWTWATAA

Original motif

Consensus sequence: BTATGTACTAATWH



Reverse complement motif

Consensus sequence: HWATTAGTACATAV




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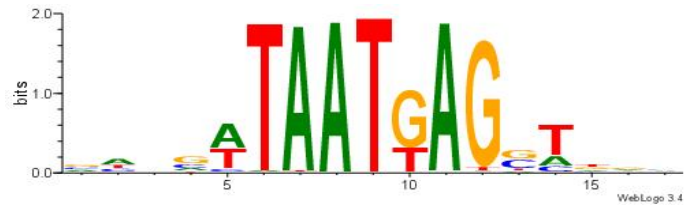
Motif ID: [UP00146](#)  
 Motif name: Pou6f1\_1731.2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 11  
 Similarity score: 0.0387939

Alignment:

DHDASCTCATTAWVVHV  
-----TTATWAWCTAA

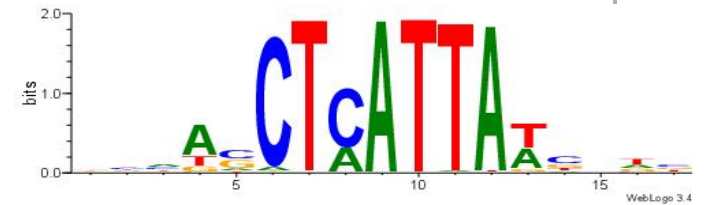
Original motif

Consensus sequence: VHVWTAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTAWVVHV



---

Motif ID: [UP00169](#)  
Motif name: Lmx1b  
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: 0.0395035

Alignment:

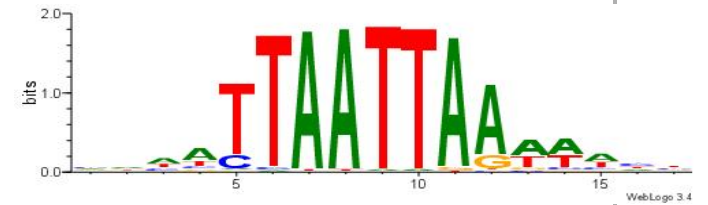
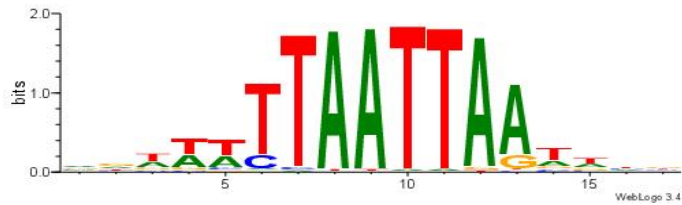
VDWWWTTAATTAATDHB  
--TTATWAWCTAA----

Original motif

Consensus sequence: VDWWWTTAATTAATDHB

Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



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

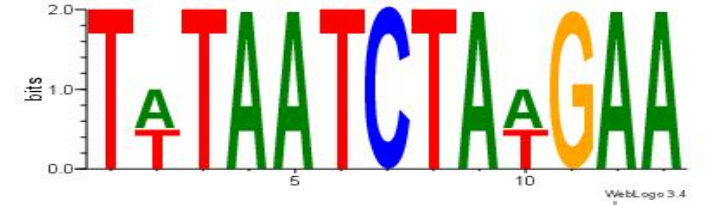
Original motif

Consensus sequence: TTCWTAGATTAWA



Reverse complement motif

Consensus sequence: TWTAACTAAGAA



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

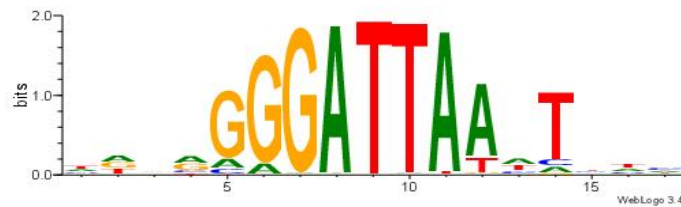
Motif ID:	<a href="#">UP00208</a>
Motif name:	Obox5_2284.1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0233931

Alignment:

DHHAHTTAATCCCKVDH  
----TWTAATCTAWGAA

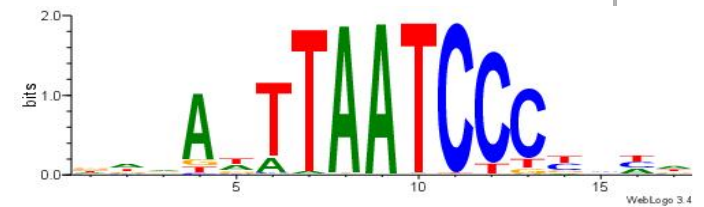
Original motif

Consensus sequence: HDVRGGGATTAATHHH



Reverse complement motif

Consensus sequence: DHHAHTTAATCCCKVDH



Motif ID: [UP00032](#)  
Motif name: Gata3\_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: 13  
Similarity score: 0.0251817

Alignment:

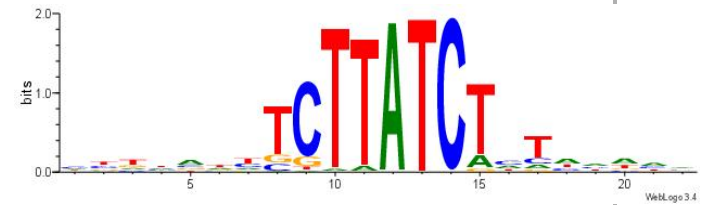
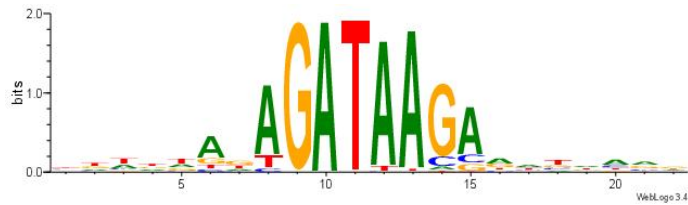
HBHDVHDTCTTATCTHTDDHDV  
-----TWTAATCTAWGAA--

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



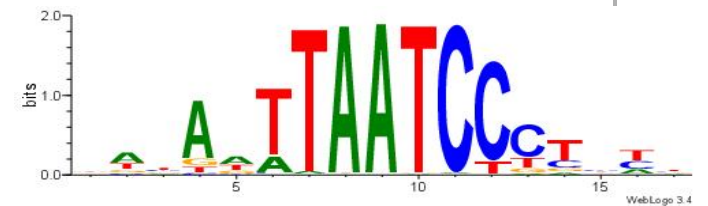
Motif ID: [UP00208](#)  
 Motif name: Obox5\_3963.2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 13  
 Similarity score: 0.026815

Alignment:  
 VWBAHTTAATCCCTVKB  
 ----TWTAATCTAWGAA

Original motif  
 Consensus sequence: VRVAGGGATTAHTVWV



Reverse complement motif  
 Consensus sequence: VWBAHTTAATCCCTVKB



Motif ID: [UP00188](#)



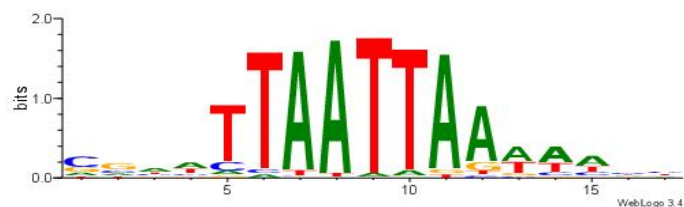
Motif name: Lmx1a  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 13  
 Similarity score: 0.02879

**Alignment:**

BDWWTTAATTAHHVG  
 -TTCWTAGATTAWA---

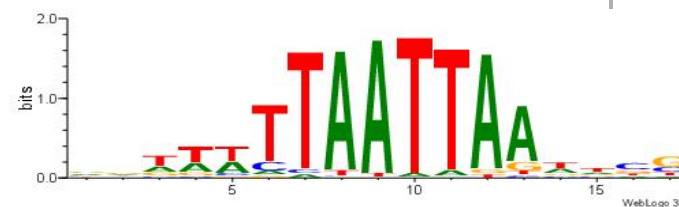
**Original motif**

Consensus sequence: CVHHTTAATTAAWWWHB



**Reverse complement motif**

Consensus sequence: BDWWTTAATTAHHVG




---

Motif ID: [UP00109](#)  
 Motif name: Obox6  
 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: 0.028848

Alignment:

AHAADCGGATTAWHB  
-TTCWTAGATTAWA-

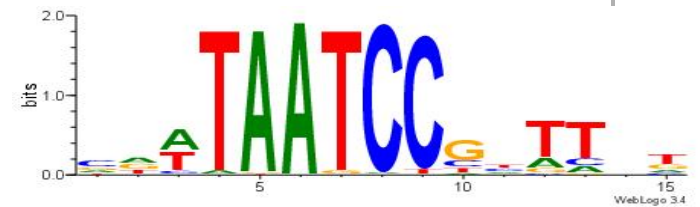
Original motif

Consensus sequence: AHAADCGGATTAWHB



Reverse complement motif

Consensus sequence: BHWTAATCCGDTTHT



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

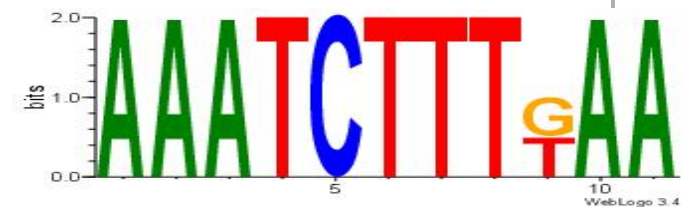
Original motif

Consensus sequence: TTMAAAGATTT



Reverse complement motif

Consensus sequence: AAATCTTTYAA



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

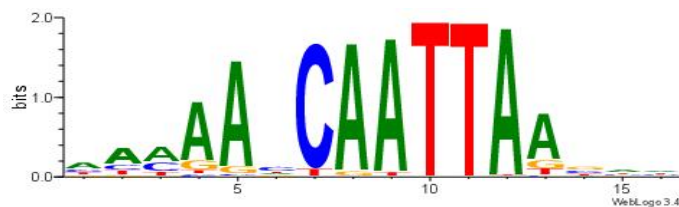
Motif ID: [UP00145](#)  
Motif name: Barh12  
Species: Mus musculus  
Matching format of first motif: Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0251004

Alignment:  
HAMAAHCAATTAABHH  
--AAATCTTTYAA---

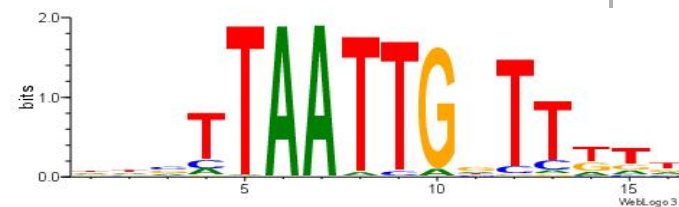
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH



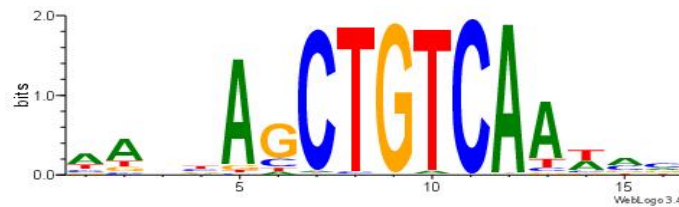
Motif ID:	<a href="#">UP00258</a>
Motif name:	Tgif2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0274736

Alignment:

AABBAGCTGTCAAWVV  
--AAATCTTTYAA---

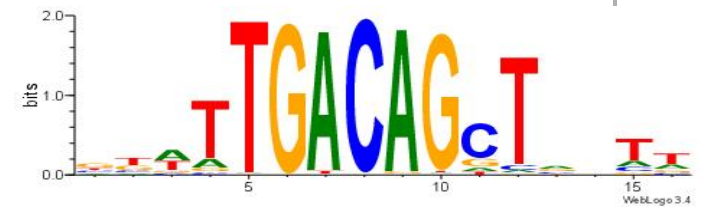
Original motif

Consensus sequence: AABBAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



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: 6  
Number of overlap: 11  
Similarity score: 0.0280825

Alignment:

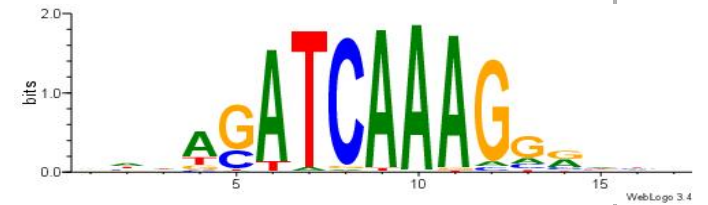
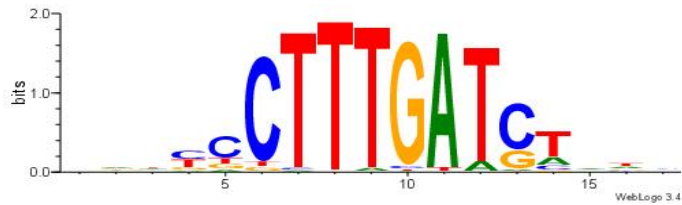
VDDAGATCAAAGGKDDD  
-----TTMAAAGATTT-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

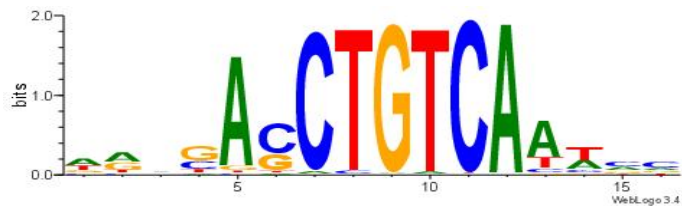


Motif ID: [UP00203](#)  
 Motif name: Pknox1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0285392

Alignment:  
 DRVSASCTGTCAAWVV  
 --AAATCTTTYAA---

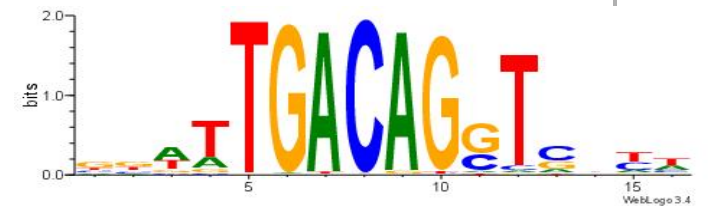
Original motif

Consensus sequence: DRVSASCTGTCAAWVV



Reverse complement motif

Consensus sequence: VVWTTGACAGSTSBKD



Motif ID: [UP00186](#)

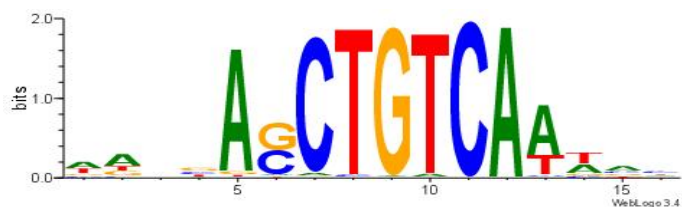
Motif name: Meis1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0294621

Alignment:

WAVBASCTGTCAAWVH  
 --AAATCTTTYAA--

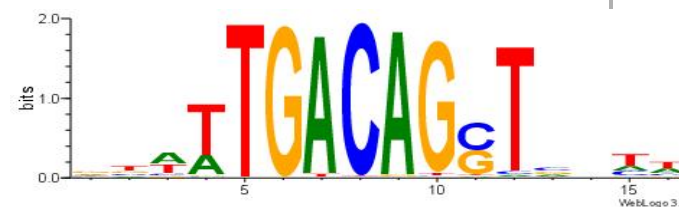
Original motif

Consensus sequence: WAVBASCTGTCAAWVH



Reverse complement motif

Consensus sequence: DBWTTGACAGSTBVTW



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

Original motif

Consensus sequence: ATAAAA

Reverse complement motif

Consensus sequence: TTTTAT



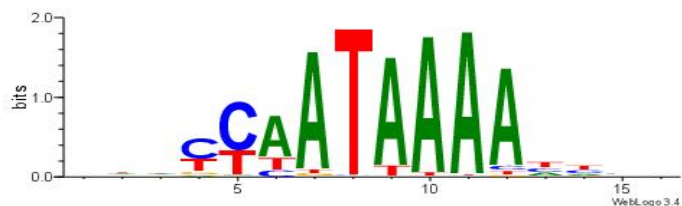
### Best Matches for Motif ID 21 (Highest to Lowest)

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: 7  
 Number of overlap: 6  
 Similarity score: 0

Alignment:  
 HDHHTTTTATTKKHDD  
 ----TTTTAT-----

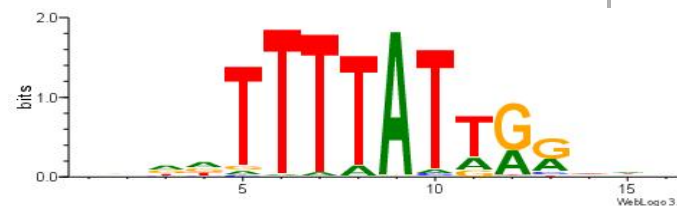
#### Original motif

Consensus sequence: HDHYAATAAAHHHH



#### Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



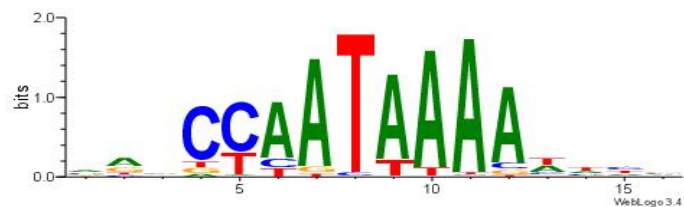
Motif ID: [UP00134](#)  
 Motif name: Hoxb13  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.00902808

Alignment:

VRHCCAATAAAWHHV  
 -----ATAAAA-----

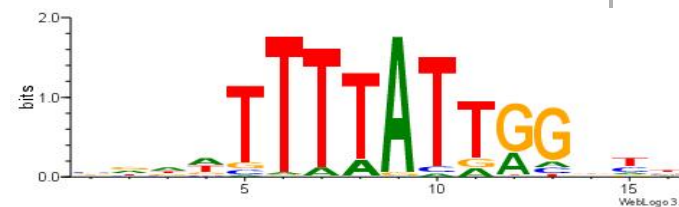
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



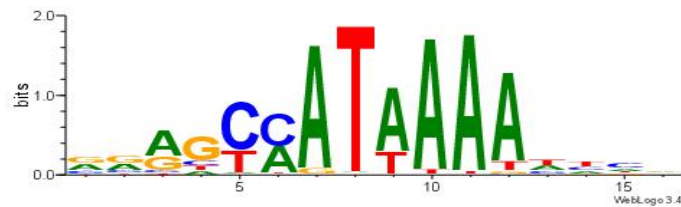
Motif ID: [UP00207](#)  
 Motif name: Hoxb9  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5



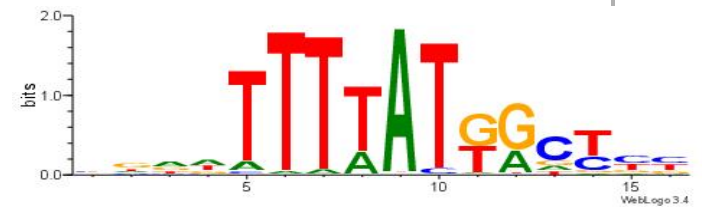
Number of overlap: 6  
Similarity score: 0.00908997

Alignment:  
VRRGCMATAAAHHHD  
-----ATAAAA-----

Original motif  
Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif  
Consensus sequence: HDHHTTTTATRGCKMV



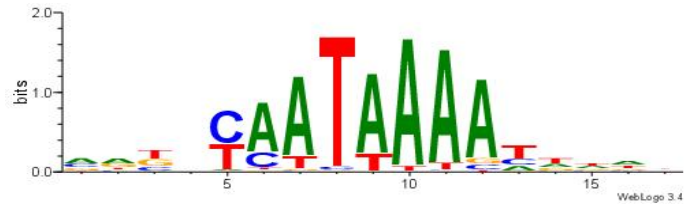
Motif ID: [UP00121](#)  
Motif name: Hoxd10  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 7  
Number of overlap: 6  
Similarity score: 0.0141617

Alignment:  
VDKVYAATAAAATDDDH  
-----ATAAAA-----

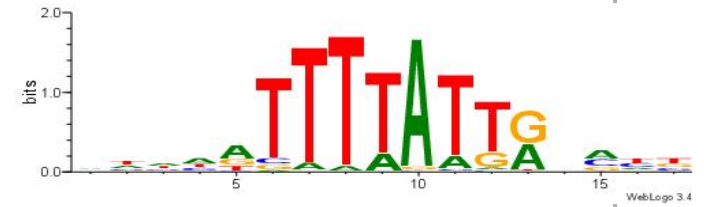
Original motif

Reverse complement motif

Consensus sequence: VDKVYAATAAAATDDDH



Consensus sequence: HDDDATTTTATTKVRDB



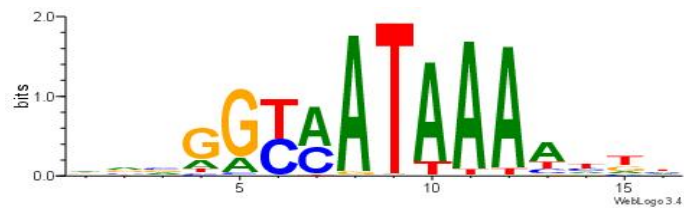
Motif ID: [UP00133](#)  
Motif name: Cdx2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 8  
Number of overlap: 6  
Similarity score: 0.0156625

Alignment:

```
HRHTTTTATYMCCVBD  
---TTTTAT-----
```

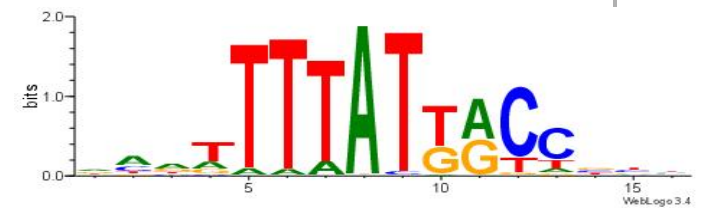
Original motif

Consensus sequence: DVVGGYMATAAAAHKH



Reverse complement motif

Consensus sequence: HRHTTTTATYMCCVBD



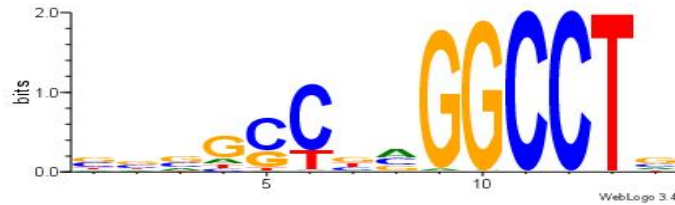
**Dataset #: 3**

**Motif ID: 22**

**Motif name: Zfx**

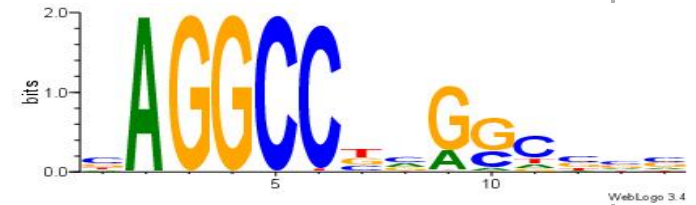
Original motif

Consensus sequence: BBVGCCBVGGCCTV



Reverse complement motif

Consensus sequence: VAGGCCBBGGCVBB



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

Motif ID: [UP00005](#)  
Motif name: Tcfap2a\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0596136

Alignment:

HHRCCBBWGGDCDB

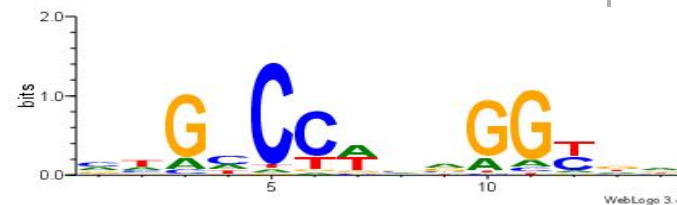
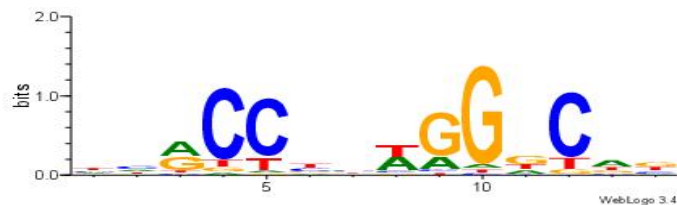
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH

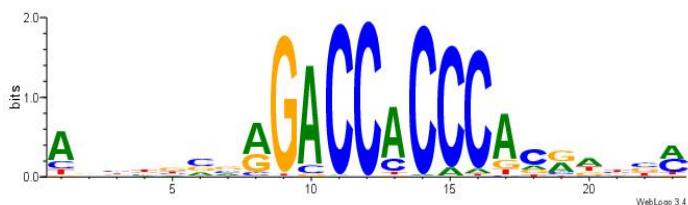


Motif ID: [UP00540](#)  
 Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0603516

Alignment:  
 ABBBBVVRGACCACCCACRDBBM  
 BBVGCCBVGGCCTV-----

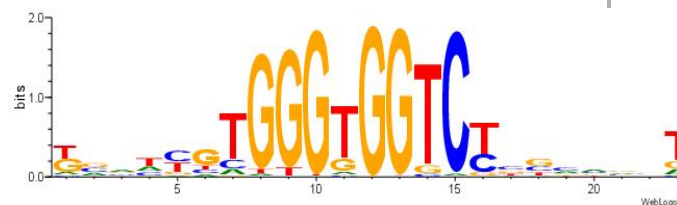
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

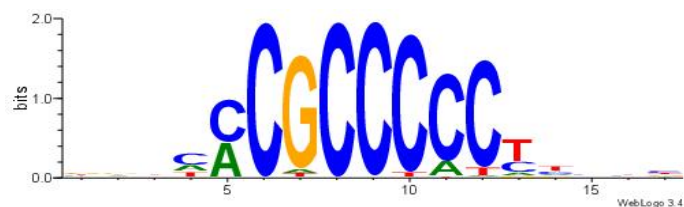
Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 14  
 Similarity score: 0.0604694

**Alignment:**

BDHHMCGCCCCCTHVBB  
 ---VAGGCCBBGGCVBB

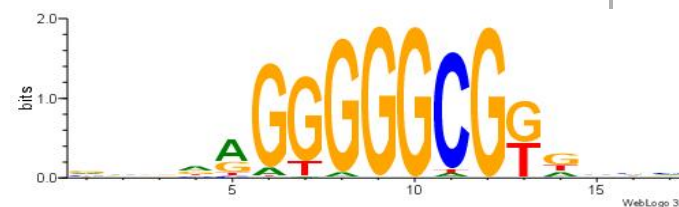
**Original motif**

Consensus sequence: BDHHMCGCCCCCTHVBB



**Reverse complement motif**

Consensus sequence: BVVHAGGGGGCGRDHHB




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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: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14

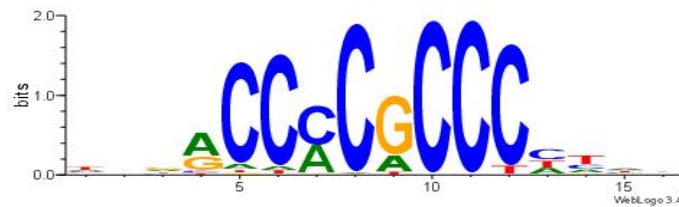
Similarity score: 0.0606067

Alignment:

HBDRCCMCGCCCHHHD  
BBVGCCBVGGCCTV--

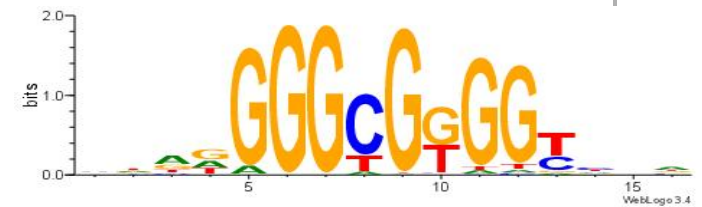
Original motif

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:

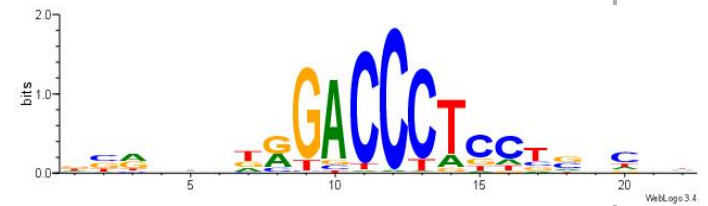
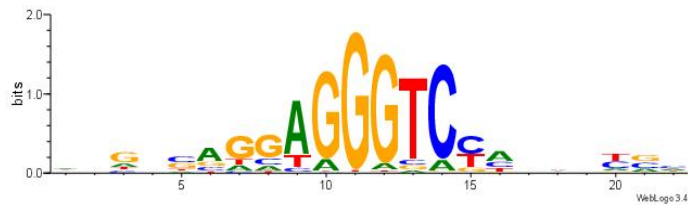
HVGVSAGGAGGGTCYHHHHYVH  
-----VAGGCCBBGGCVBB

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



**Dataset #: 3      Motif ID: 23      Motif name: Egr1**

Original motif

Consensus sequence: HGC GTGGG C



Reverse complement motif

Consensus sequence: YCGCC CACGC



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

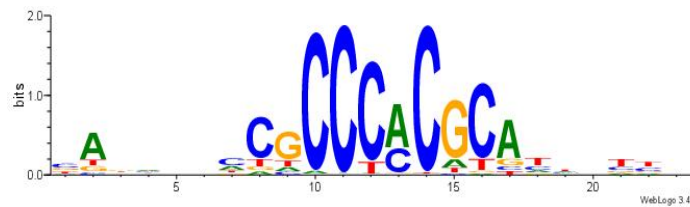
Motif ID:	<a href="#">UP00400</a>
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB  
-----HCCGTGGGCGK-----

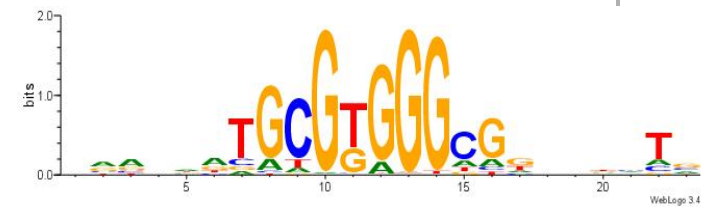
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



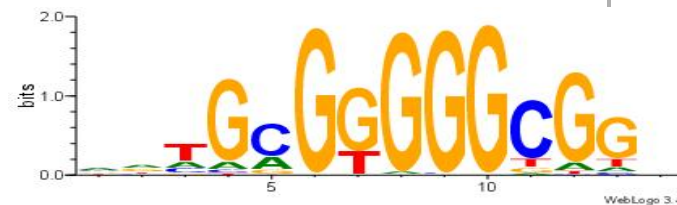
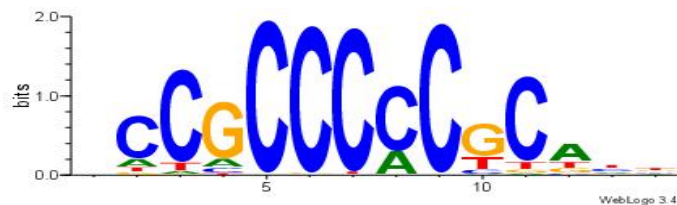
Motif ID: [UP00007](#)  
Motif name: Egr1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.00727533

Alignment:  
HCCGCCCCCGCAHB  
-YCGCCCACGCH--

Original motif  
Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif  
Consensus sequence: VHTGCGGGGGCGGH



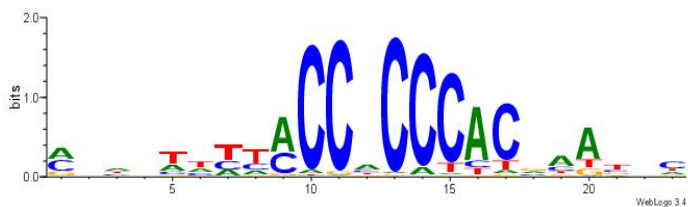


Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0262579

Alignment:  
 MHHHWHYTMCCCHCCCACVAABVH  
 -----YCGCCACGCH----

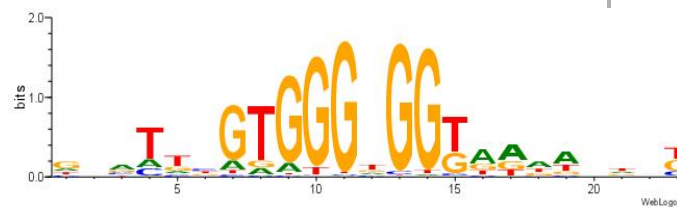
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00540](#)

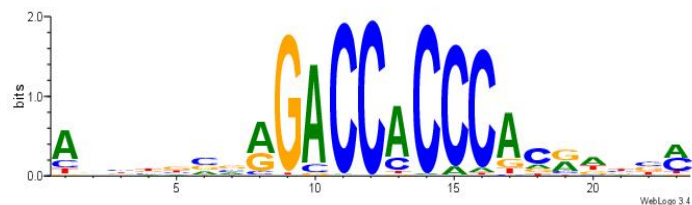
Motif name: Gli3\_v015681\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 11  
 Number of overlap: 11  
 Similarity score: 0.0297053

**Alignment:**

YBVDMGTGGGTGGTCKVVBVBBT  
 --HGCGTGGGCGK-----

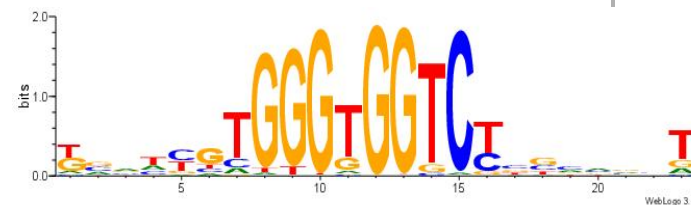
**Original motif**

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

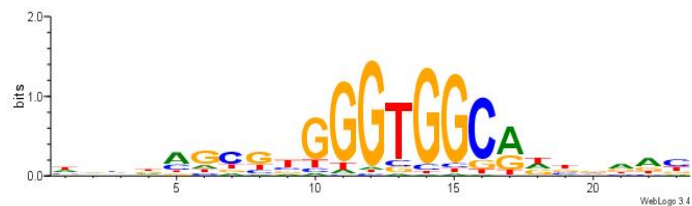
Similarity score: 0.0318144

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB  
----HGCGTGGGCGK-----

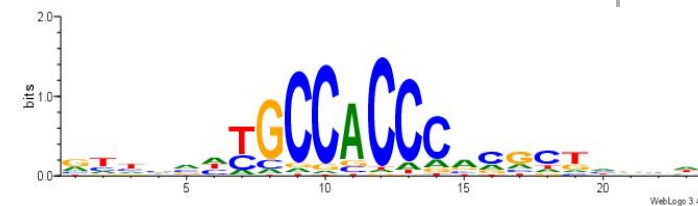
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

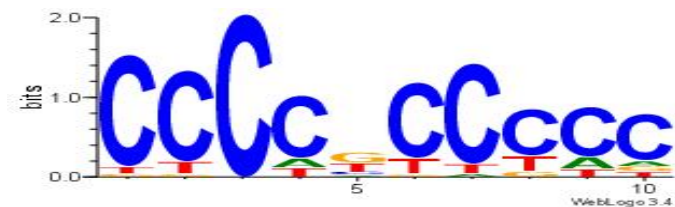
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



**Dataset #: 3      Motif ID: 24      Motif name: SP1**

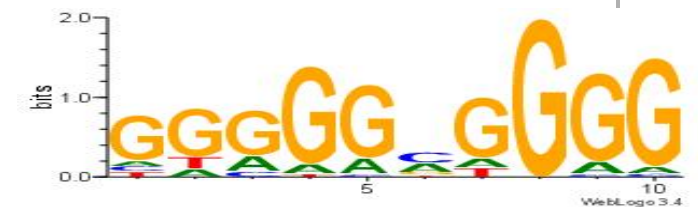
Original motif

Consensus sequence: CCCCKCCCC



Reverse complement motif

Consensus sequence: GGGGGYGGGG



**Best Matches for Motif ID 24 (Highest to Lowest)**

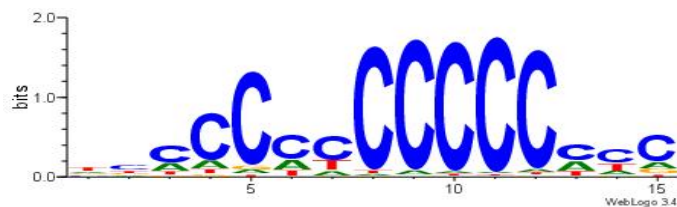
Motif ID: [UP00021](#)  
Motif name: Zfp281\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0231018

Alignment:  
DBCCCCCCCCCMYC  
--CCCCKCCCCC---

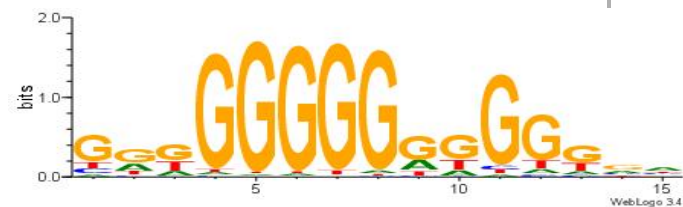
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



---

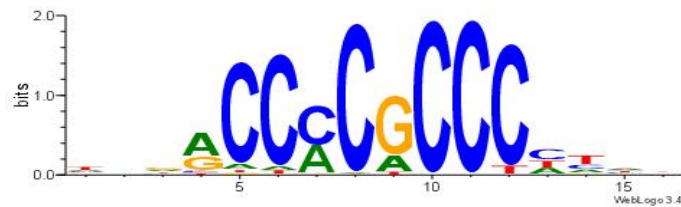
Motif ID: [UP00093](#)  
Motif name: Klf7\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0303207

Alignment:

HBDRCCMCGCCCHHHD  
----CCCCKCCCC--

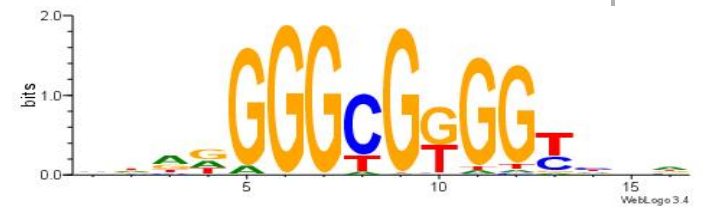
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



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:

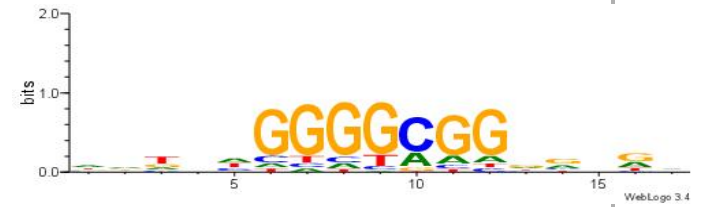
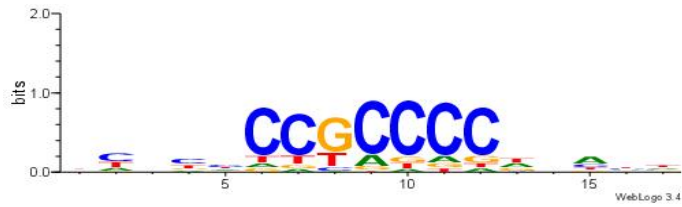
HHHHDGGGGCGGDBHDV  
----GGGGYGGGG----

Original motif

Consensus sequence: BHHBHCCGCCCDHHHH

Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV

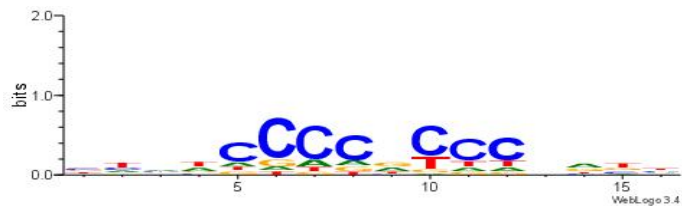


Motif ID: [UP00099](#)  
 Motif name: Ascl2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0340973

Alignment:  
 HVDVGGGHGGGGDBHB  
 --GGGGYGGGG----

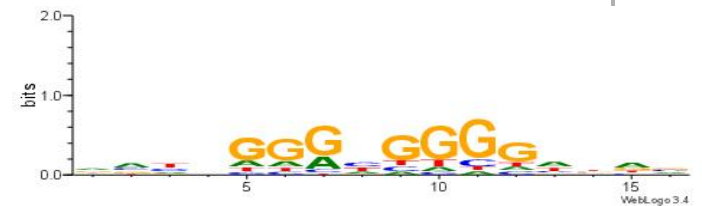
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)

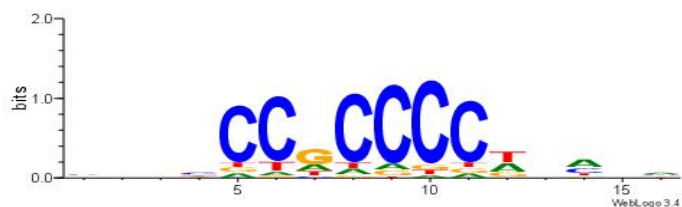
Motif name: Bcl6b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH  
 ----GGGGYGGGG--

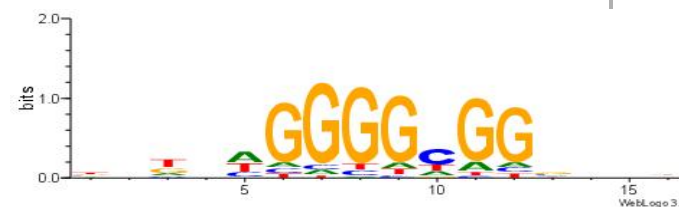
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH




---

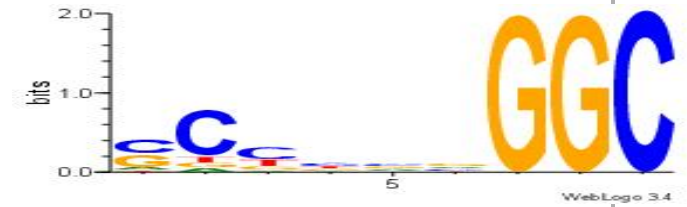
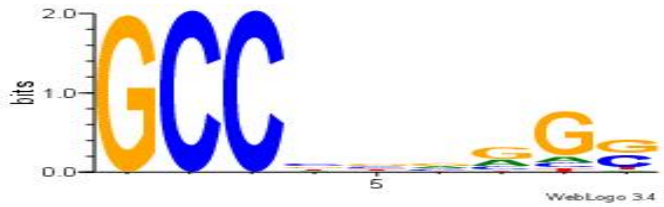
**Dataset #: 3      Motif ID: 25      Motif name: TFAP2A**

Original motif

Consensus sequence: GCCBBVRGS

Reverse complement motif

Consensus sequence: SCMVBGGC



### Best Matches for Motif ID 25 (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

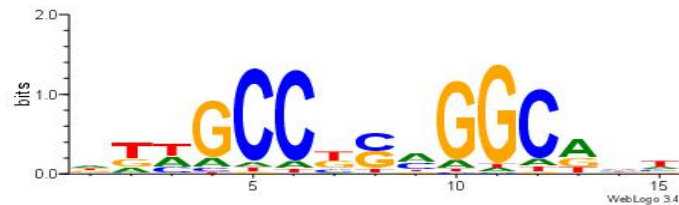
#### Alignment:

```

HHKGCCYSRGGCWAD
---GCCBBVRGS---
  
```

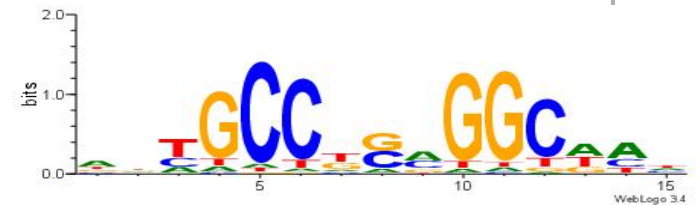
#### Original motif

Consensus sequence: DTWGCKSMGGCRHH



#### Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD





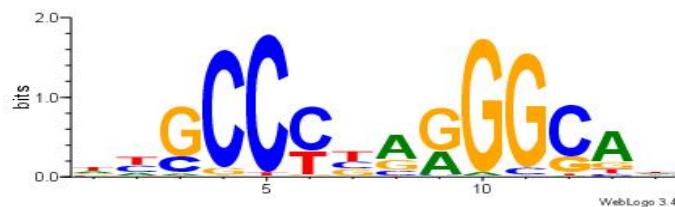
Motif ID: [UP00010](#)  
Motif name: Tcfap2b\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 9  
Similarity score: 0.0150447

Alignment:

DYGCCYBARGGCAH  
--GCCBBVRGS---

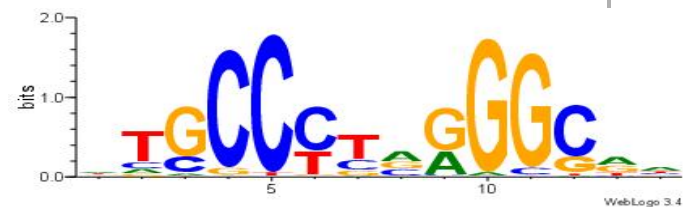
Original motif

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

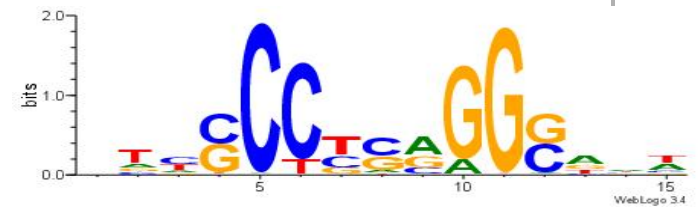
Number of overlap: 9  
Similarity score: 0.0151527

Alignment:  
WDHSCCYSRGGSRAD  
---GCCBBVRGS---

Original motif  
Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif  
Consensus sequence: DTMSCCKSMGGSHDW



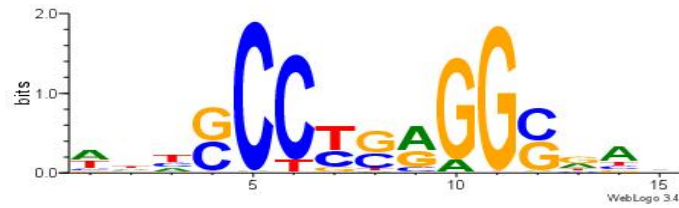
Motif ID: [UP00087](#)  
Motif name: Tcfap2c\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 9  
Similarity score: 0.016909

Alignment:  
WHHSCCYSRGGSDAD  
---GCCBBVRGS---

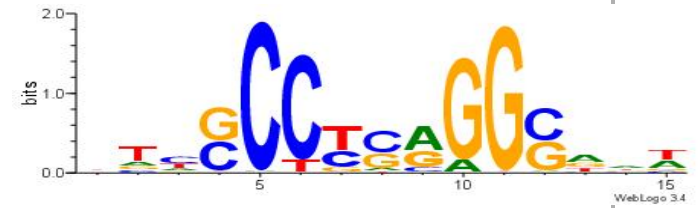
Original motif

Reverse complement motif

Consensus sequence: WHHSCCYSRGGSDAD



Consensus sequence: DTHSCCKSMGGSHHW



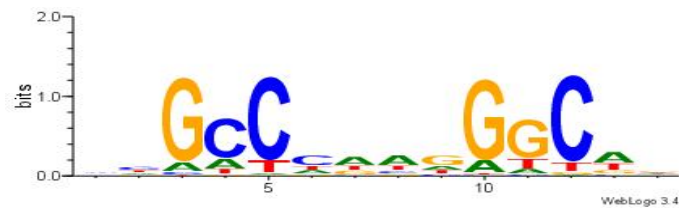
Motif ID: [UP00087](#)  
Motif name: Tcfap2c\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 9  
Similarity score: 0.0170259

Alignment:

BHGCCCDAGGGCWD  
--GCCBBVRGS---

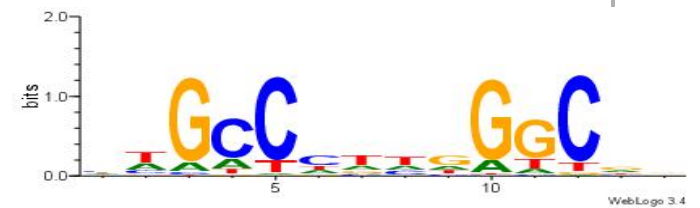
Original motif

Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif

Consensus sequence: HWGCCCTDGGGCDB



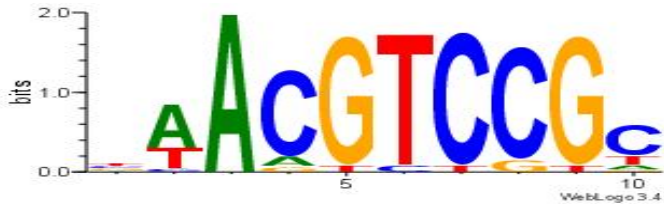
**Dataset #: 3**

**Motif ID: 26**

**Motif name: MIZF**

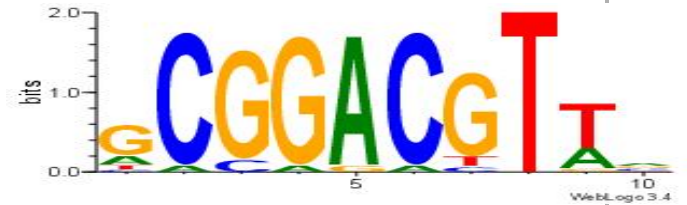
Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



### Best Matches for Motif ID 26 (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:

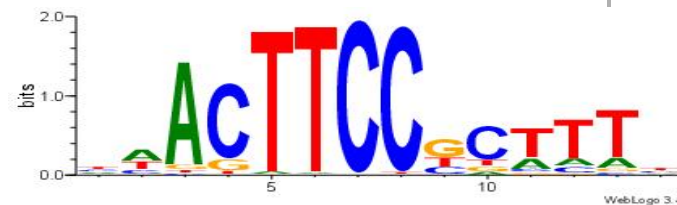
```
DWACTTCCRCTTTB  
BAACGTCCGC-----
```

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:  
 DWACTTCCRSDTWV  
 BAACGTCCGC-----

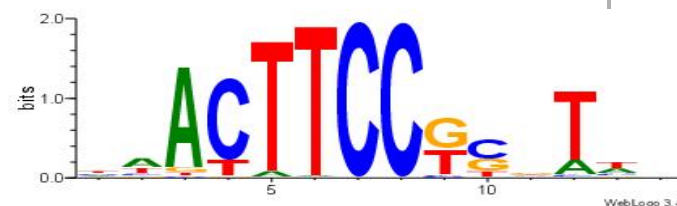
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)

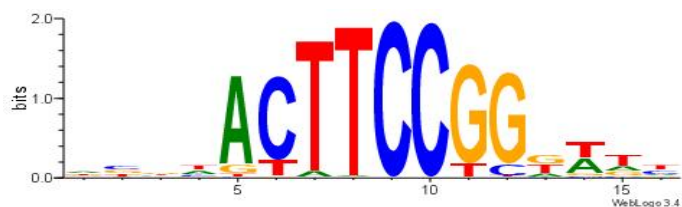
Motif name: Elf4  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWTH  
--BAACGTCCGC----

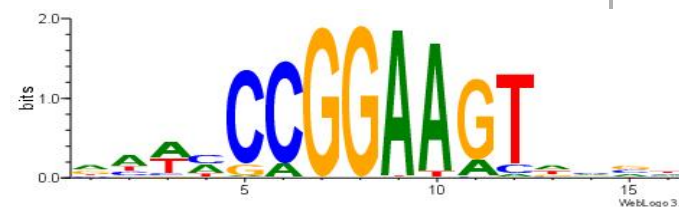
Original motif

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

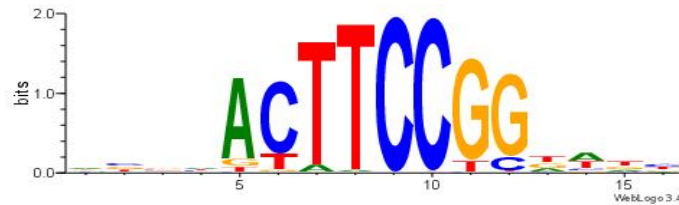
Similarity score: 0.0128348

Alignment:

DBBHACTTCCGGDWDB  
--BAACGTCCGC----

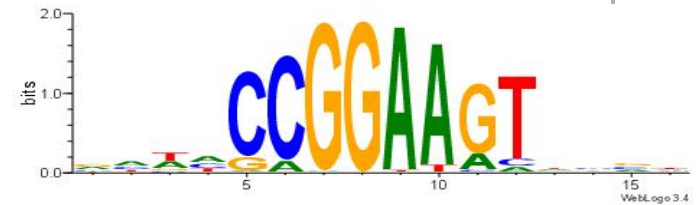
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWCCGGGAAGTHBBD



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: Backward  
Position number: 5  
Number of overlap: 10  
Similarity score: 0.0141516

Alignment:

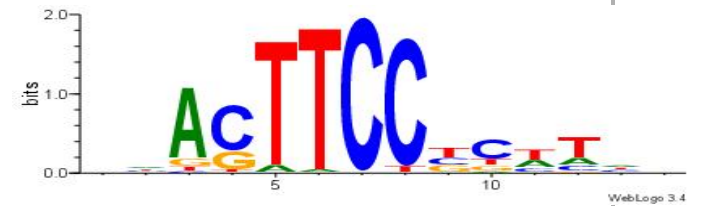
HDACTTCCBCWTDV  
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



**Dataset #: 3      Motif ID: 27      Motif name: Klf4**

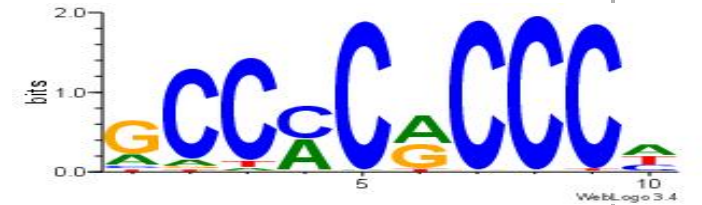
Original motif

Consensus sequence: DGGGYGKGGC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



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

Motif ID:	<a href="#">UP00093</a>
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

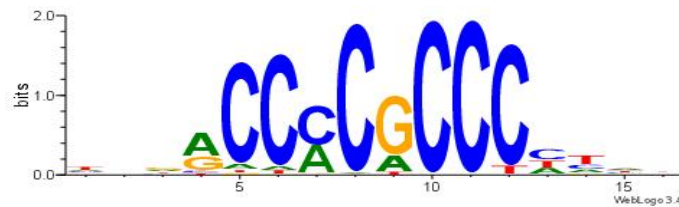
Alignment:



DHHDGGGCGRGGKHBH  
---DGGGYGKGGC---

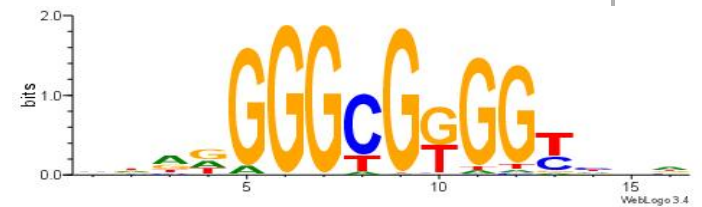
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



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

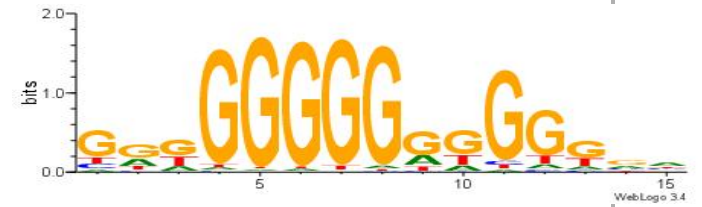
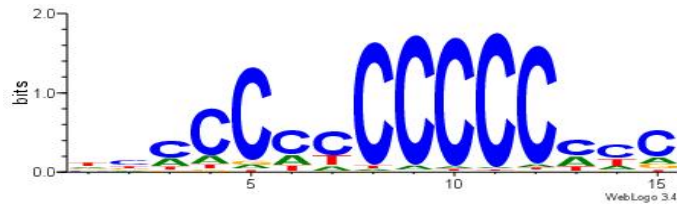
Alignment:  
DBCCCCCCCCMYC  
---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

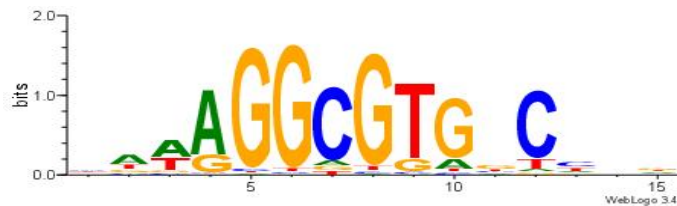
Consensus sequence: GKRGGGGGGGGGGBD



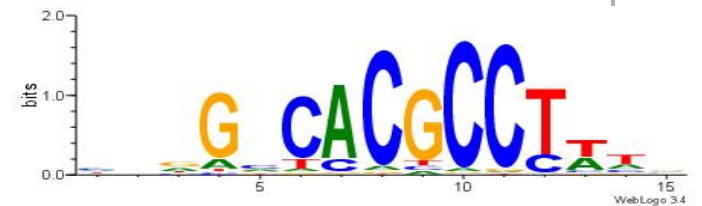
Motif ID: [UP00002](#)  
 Motif name: Sp4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0186791

Alignment:  
 BDWAGGCGTGBCHHD  
 --DGGGYGKGGC---

Original motif  
 Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif  
 Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00022](#)

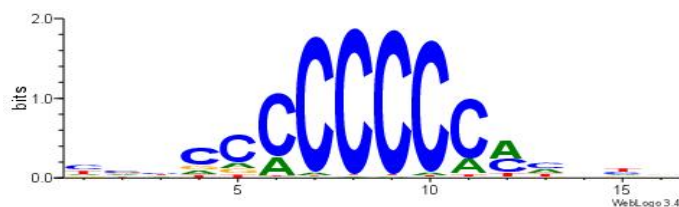
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0218399

Alignment:

HVBCCCCCCCCMHHHB  
--GCCYCMCCCD----

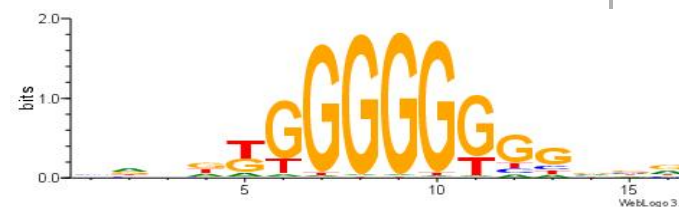
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



---

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:

```
VHTGCGGGGGCGGH  
GCCYCMCCD-----
```

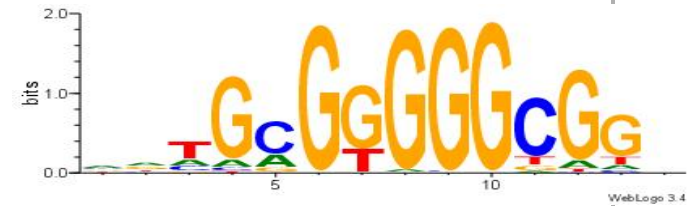
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



**Dataset #: 3**

**Motif ID: 28**

**Motif name: E2F1**

Original motif

Consensus sequence: TTTSGCGC



Reverse complement motif

Consensus sequence: GCGSAAA



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

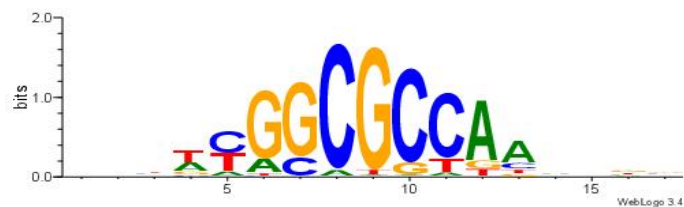
Motif ID:	<a href="#">UP00001</a>
Motif name:	E2F2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction: Backward  
Position number: 7  
Number of overlap: 8  
Similarity score: 0

Alignment:  
BBBDTTGGCGCCKWVVD  
---TTTSGCGC-----

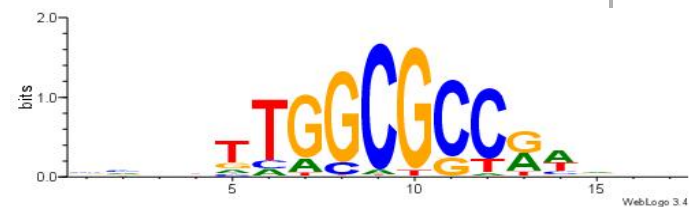
#### Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



#### Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD



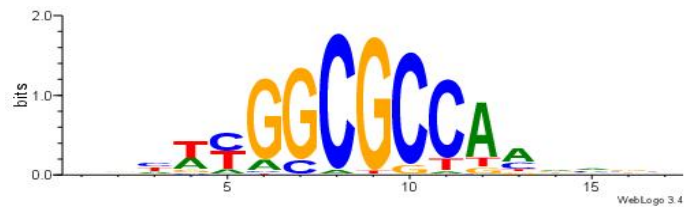
Motif ID: [UP00003](#)  
Motif name: E2F3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 8  
Similarity score: 0.00182028

Alignment:

HBHWYGGCGCCAMDVB  
-----GCGCSAAA----

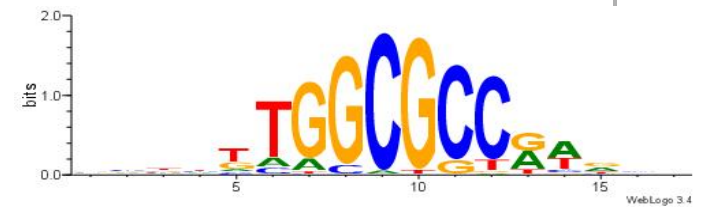
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGCGCCKWDBD



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:

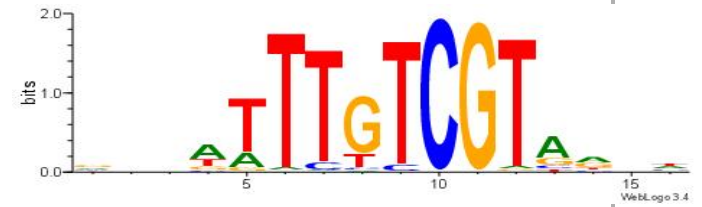
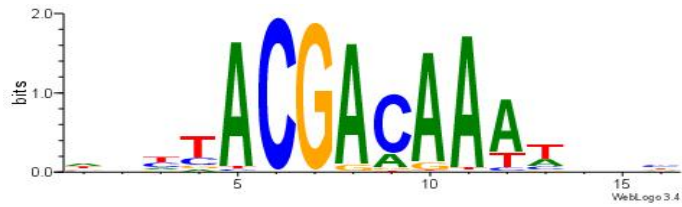
DDHTACGACAAAWDDDB  
-----GCGCSAAA-----

Original motif

Consensus sequence: DDHTACGACAAAWDDDB

Reverse complement motif

Consensus sequence: BHDWTTTGTCTAHDDB

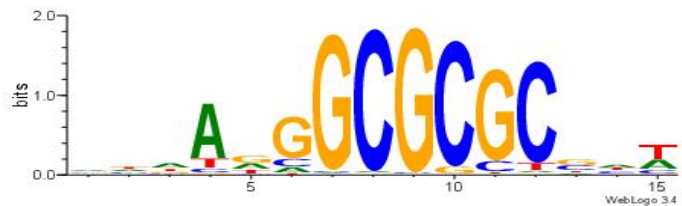


Motif ID: [UP00003](#)  
 Motif name: E2F3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 8  
 Similarity score: 0.0275636

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

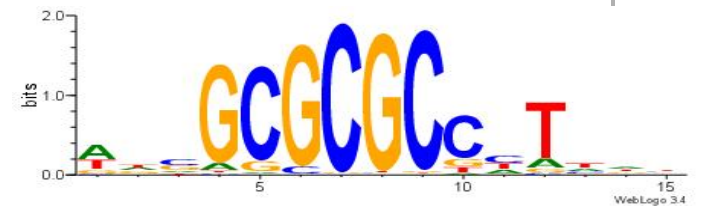
Original motif

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: [UP00065](#)

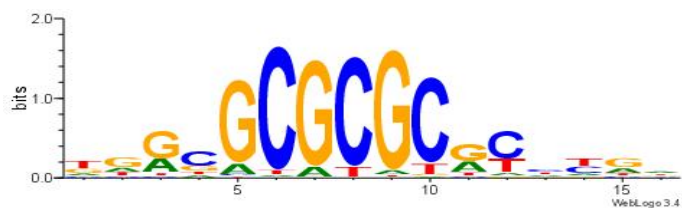
Motif name: Zfp161\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 9  
 Number of overlap: 8  
 Similarity score: 0.028109

**Alignment:**

DMMDGMGCGCGCHD  
 -----GCGCSAAA

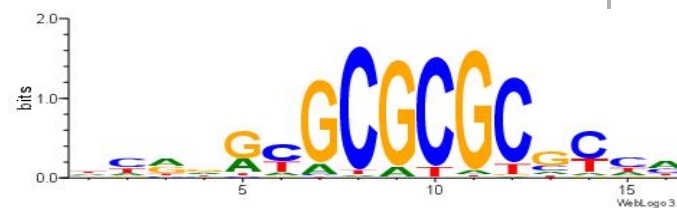
**Original motif**

Consensus sequence: DDGCGCGCGCRCHYRD



**Reverse complement motif**

Consensus sequence: DMMDGMGCGCGCHD




---

**Dataset #: 3      Motif ID: 29      Motif name: HIF1AARNT**

**Original motif**

Consensus sequence: VBACGTGV

**Reverse complement motif**

Consensus sequence: VCACGTBV





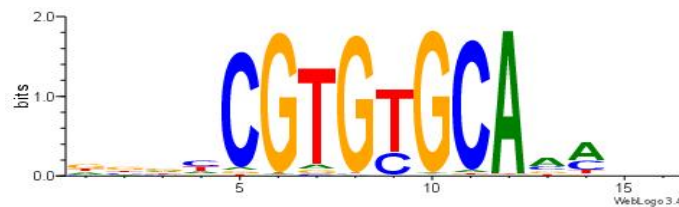
### Best Matches for Motif ID 29 (Highest to Lowest)

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--

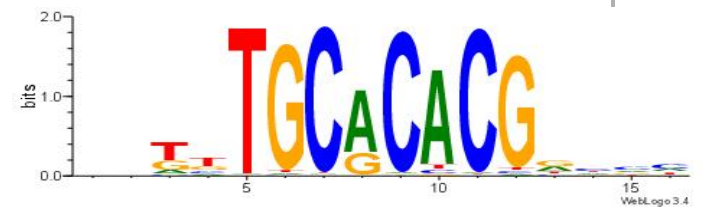
#### Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



#### Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



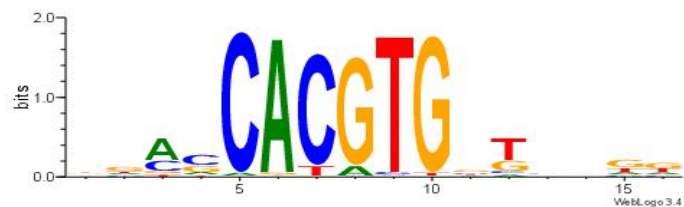
Motif ID: [UP00060](#)  
 Motif name: Max\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 8  
 Similarity score: 0.000574345

**Alignment:**

DDASCACGTGBTBVDD  
 ---VBACGTGV-----

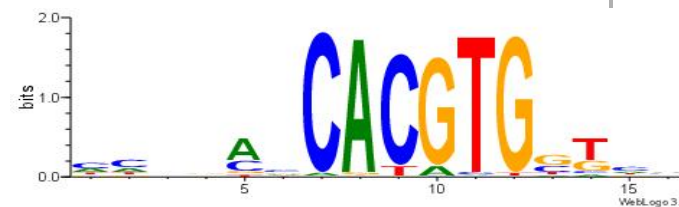
**Original motif**

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

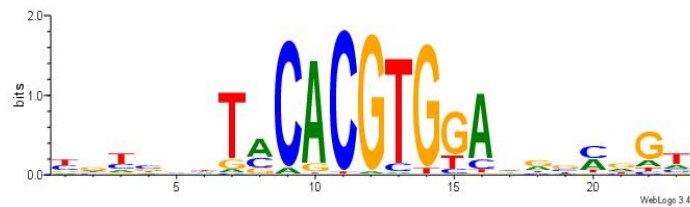
Number of overlap: 8  
Similarity score: 0.00642455

Alignment:

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

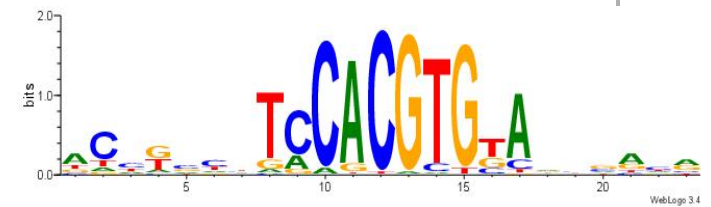
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBDHTCCACGTGYAHHBMHM



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

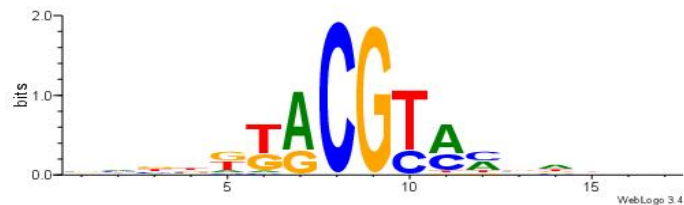
Alignment:

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

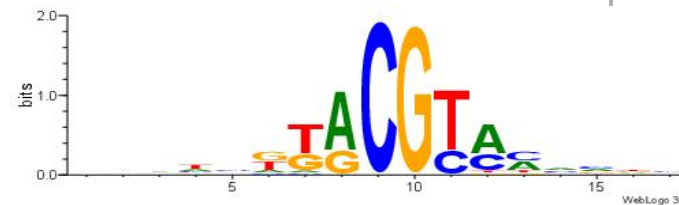
Original motif

Reverse complement motif

Consensus sequence: BHBBKKACGTMMVDBVB



Consensus sequence: BVVDVRYACGTRYVBHB



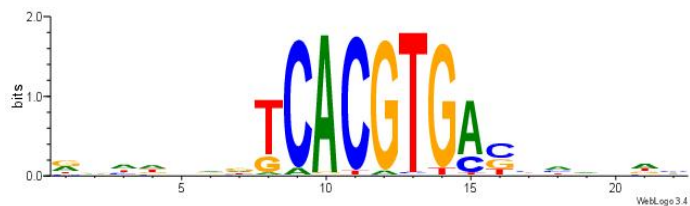
Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 8  
Number of overlap: 8  
Similarity score: 0.014006

Alignment:

```
RDHDBVDTACGTGASBHVHDH  
-----VCACGTBV-----
```

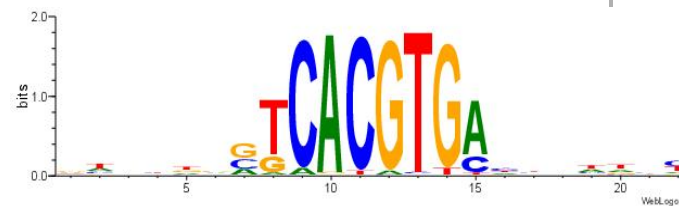
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDDHBM



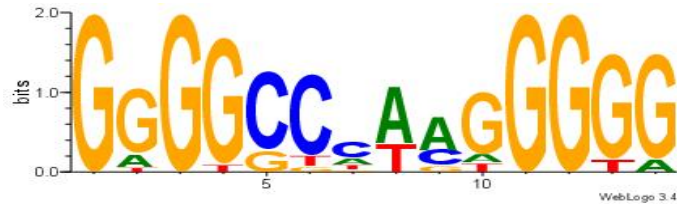
**Dataset #: 3**

**Motif ID: 30**

**Motif name: PLAG1**

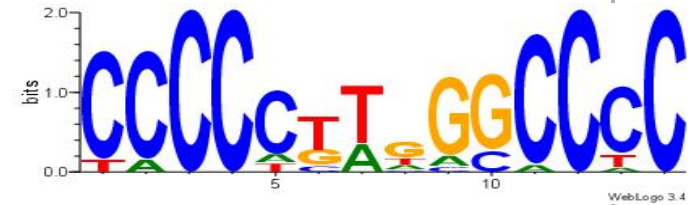
Original motif

Consensus sequence: GGGGCCCAAGGGG



Reverse complement motif

Consensus sequence: CCCCTTGGGCCC



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

Motif ID: [UP00102](#)  
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:

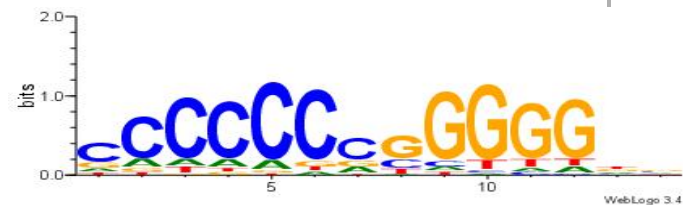
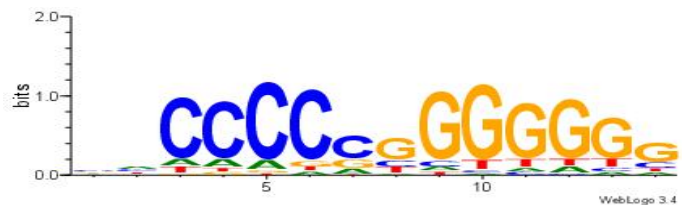
CCCCCCGGGGGHB  
CCCCTTGGGCCC

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

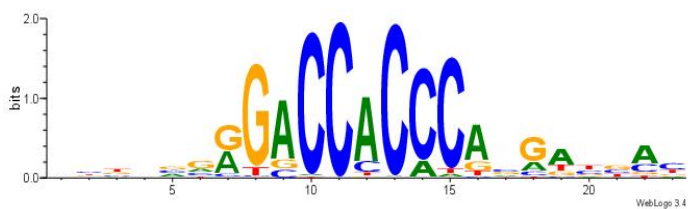
Alignment:

```

BTBVTCTGGGTGGTCMVVDVBB
-----CCCCCTTGGGCCCC
  
```

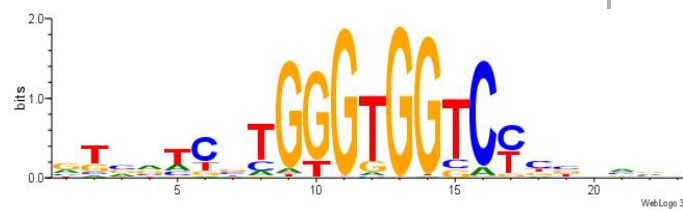
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



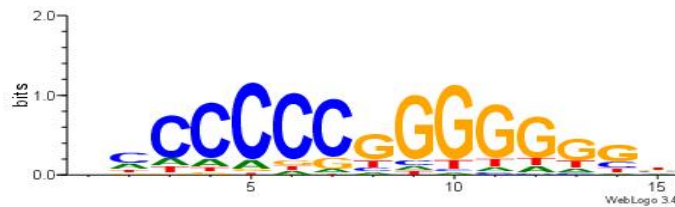
Motif ID: [UP00057](#)  
 Motif name: Zic2\_primary

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:  
 VCCCCCGGGGGRB  
 -CCCCCTGGGCCCC

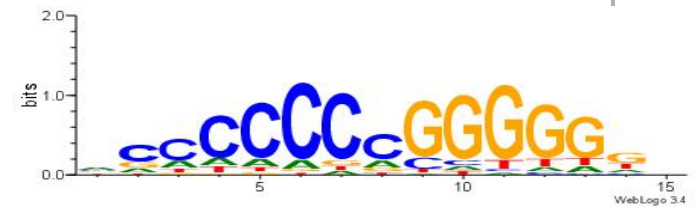
Original motif

Consensus sequence: BMCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB




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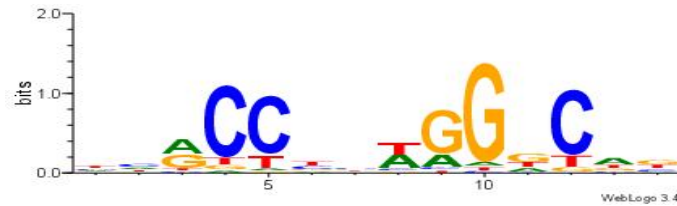
Motif ID: [UP00005](#)  
 Motif name: Tcfap2a\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0556785

Alignment:

BDGHCCWBVGGKDH  
GGGGCCCAAGGGGG

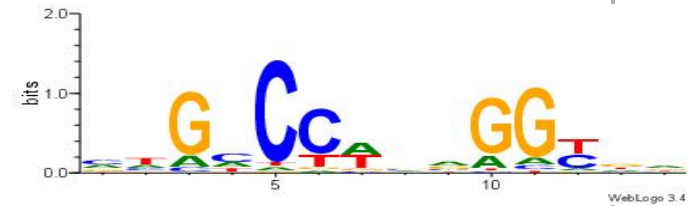
Original motif

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

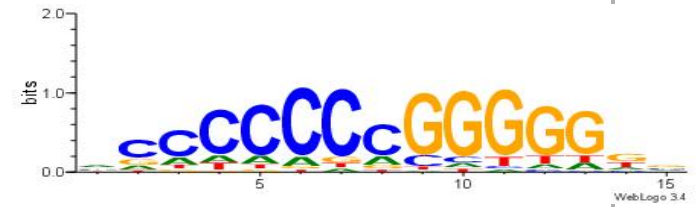
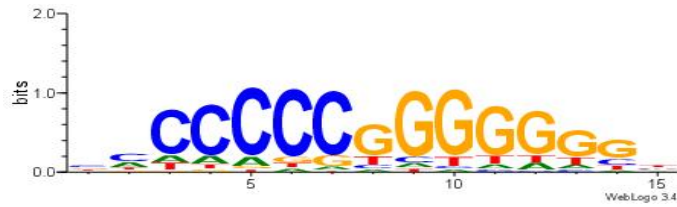
Original motif

Consensus sequence: BMCCCCCGGGGGGB

Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB

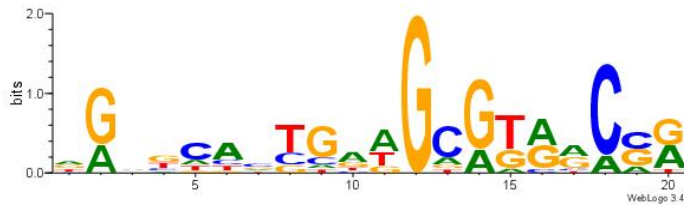




**Dataset #: 3      Motif ID: 31      Motif name: Pax5**

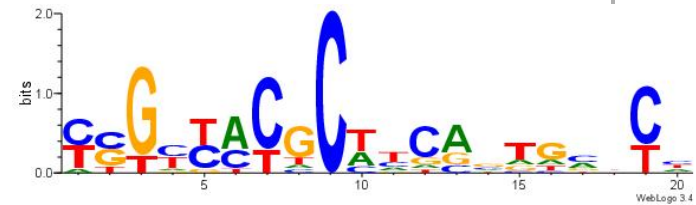
Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR



Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBBCD



**Best Matches for Motif ID 31 (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:	2
Number of overlap:	20
Similarity score:	0.0499537

Alignment:

DDRMHBACGCGYGCGTDGBBDB  
-DGVBCABTGDWCGKRRCSR-

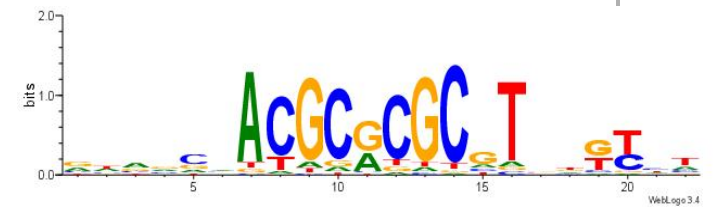
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



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:

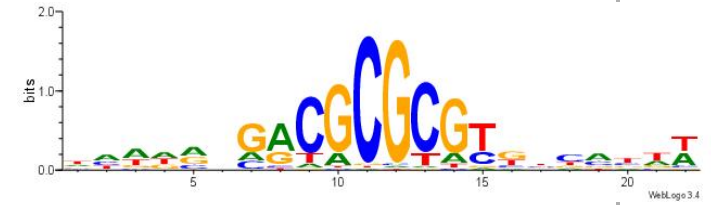
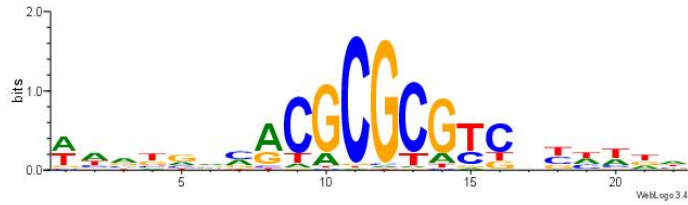
WHVBVVMACGCGCGTCDYHWDH  
DGVBCABTGDWCGKRRCSR--

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

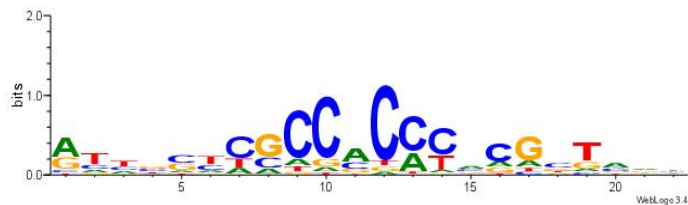
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



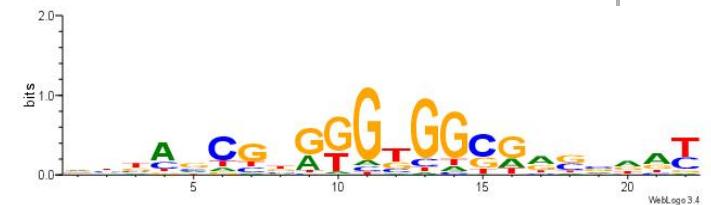
Motif ID: [UP00539](#)  
 Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 20  
 Similarity score: 0.0542764

Alignment:  
 HDBABCGBKRGYGGCGMSBHAK  
 -DGVBCABTGDWCGKRRCSR-

Original motif  
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif  
 Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00528](#)

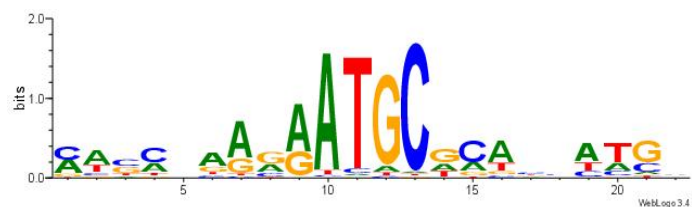
Motif name: Foxm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 20  
 Similarity score: 0.0560636

**Alignment:**

DCATDBTGHGCATKMTTBRSWR  
 --MSGKKRCGCWDCABTGBCD

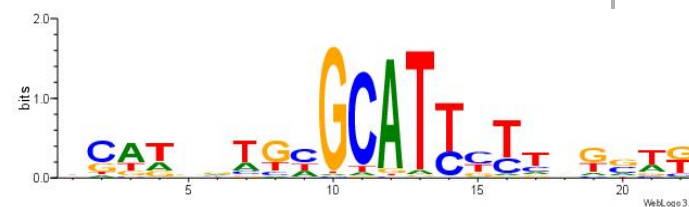
**Original motif**

Consensus sequence: MWSMBAARRATGCD CABHATGD



**Reverse complement motif**

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

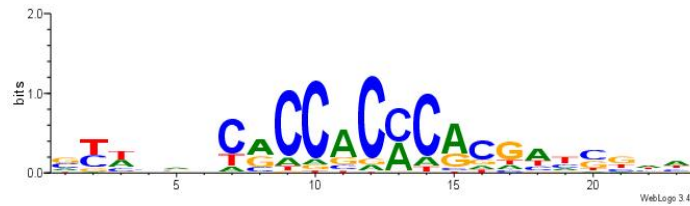
Similarity score: 0.0595671

Alignment:

HHBSHTCGTGRGTGGKGDVWVMV  
DGVBCABTGDWCGKRRCSR---

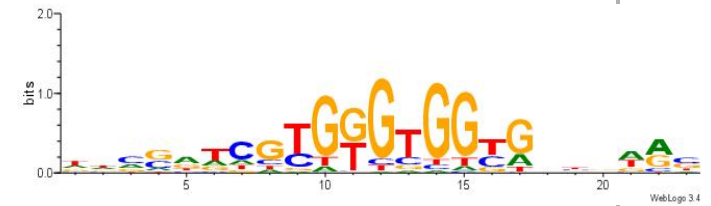
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDVWVMV



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

Original motif

Consensus sequence: YGCGTG



Reverse complement motif

Consensus sequence: CACGCM



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

Motif ID: [UP00400](#)  
Motif name: Zif268  
Species: Mus musculus  
Matching format of first motif: Original Motif

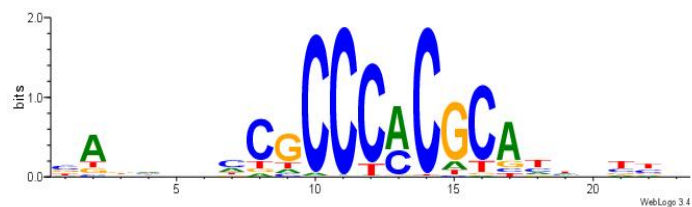
Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 6  
 Similarity score: 0

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB  
 -----YCGTG-----

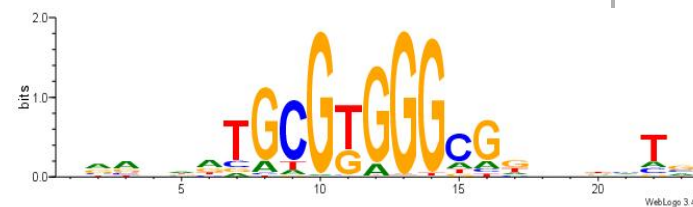
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



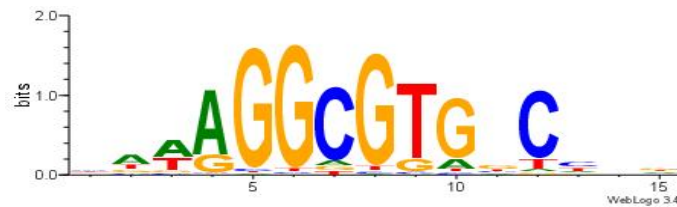
Motif ID: [UP00002](#)  
 Motif name: Sp4\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 6  
 Similarity score: 0.00183587

Alignment:

HHDGBCACGCCTWDB  
-----CACGCM-----

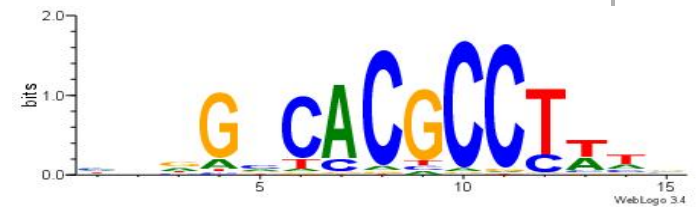
Original motif

Consensus sequence: BDWAGGCGTGBCHHH



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:

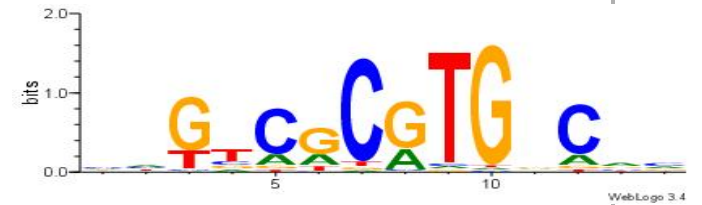
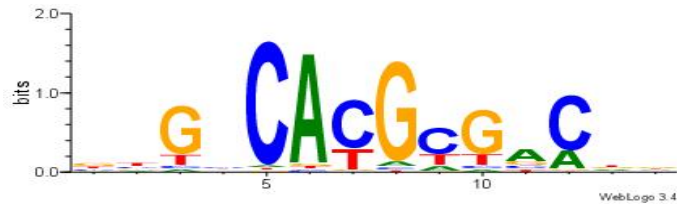
HDGTGCGGTGDCVB  
-----YGCGTG-----

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

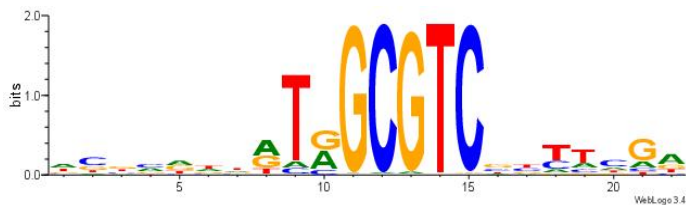
Consensus sequence: HDGTGCGGTGDCVB



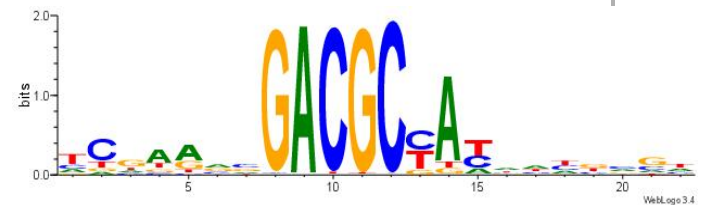
Motif ID: [UP00527](#)  
 Motif name: Foxn4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 8  
 Number of overlap: 6  
 Similarity score: 0.00526158

Alignment:  
 TCDAMVBGACGCMAKDDDVBBB  
 -----CACGCM-----

Original motif  
 Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif  
 Consensus sequence: TCDAMVBGACGCMAKDDDVBBB



Motif ID: [UP00042](#)

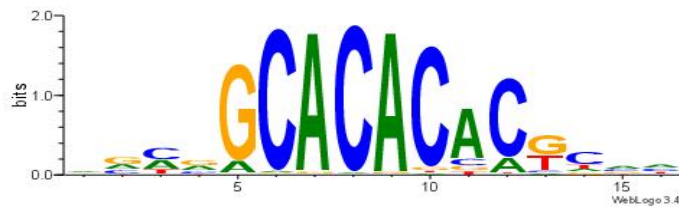


Motif name: Gm397\_second  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 8  
 Number of overlap: 6  
 Similarity score: 0.00558171

Alignment:  
 HBGYGTGTGTGCVRVD  
 ---YGCGTG-----

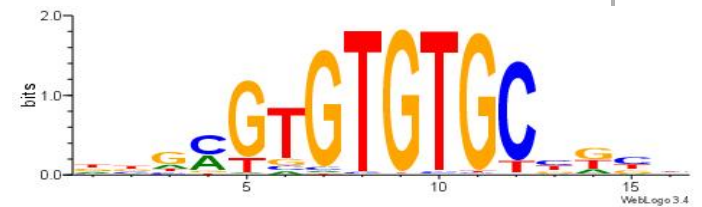
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



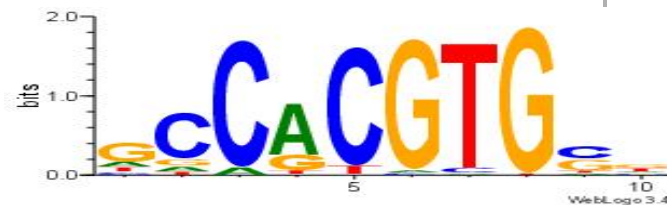
**Dataset #: 3      Motif ID: 33      Motif name: Mycn**

Original motif

Consensus sequence: HSCACGTGGC

Reverse complement motif

Consensus sequence: GCCACGTGSD



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

Motif ID: [UP00060](#)  
 Motif name: Max\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0

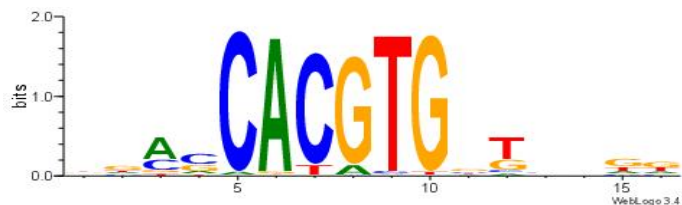
#### Alignment:

```

DDASCACGTGBTBVDD
--HSCACGTGGC-----
  
```

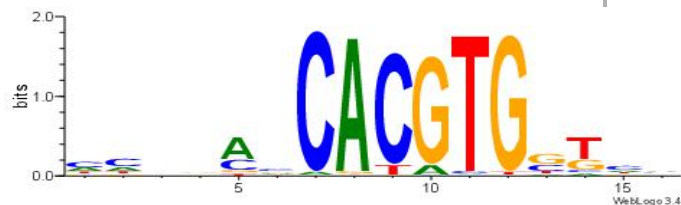
#### Original motif

Consensus sequence: DDASCACGTGBTBVDD



#### Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



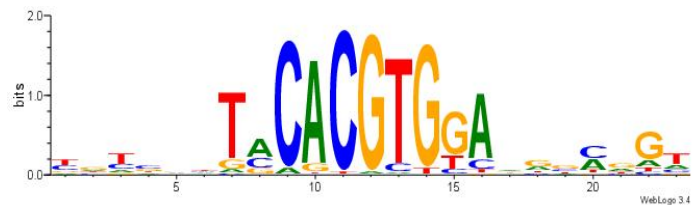
Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00783793

**Alignment:**

ACHRBHDTCCACGTGYAHBMMH  
 -----GCCACGTGSD-----

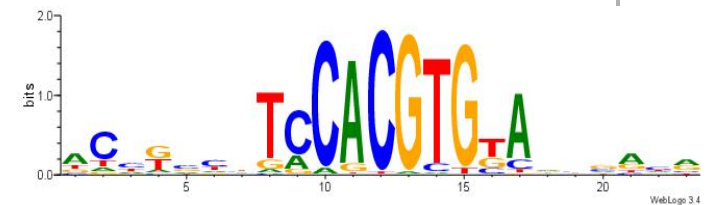
**Original motif**

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



**Reverse complement motif**

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7

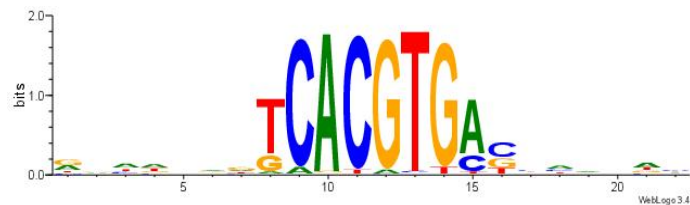
Number of overlap: 10  
Similarity score: 0.0132858

Alignment:

DDHBHBSTCACGTGAHBBDDHMM  
-----GCCACGTGSD-----

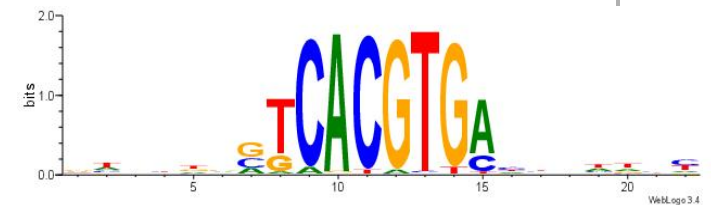
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDDHMM



Motif ID: [UP00046](#)  
Motif name: Tcfe2a\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 10  
Similarity score: 0.0227933

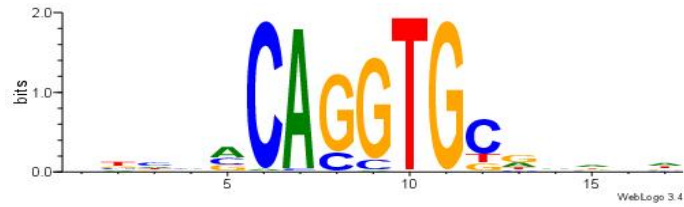
Alignment:

VBHHVCAGGTGCDVDHD  
---GCCACGTGSD---

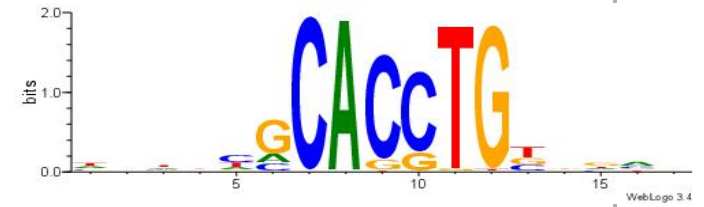
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



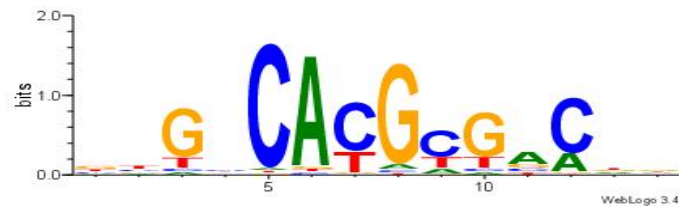
Motif ID: [UP00060](#)  
Motif name: Max\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 3  
Number of overlap: 10  
Similarity score: 0.0257011

Alignment:

BBGHCACGCGACDD  
--HSCACGTGGC--

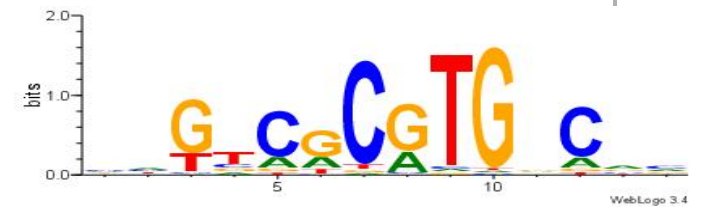
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

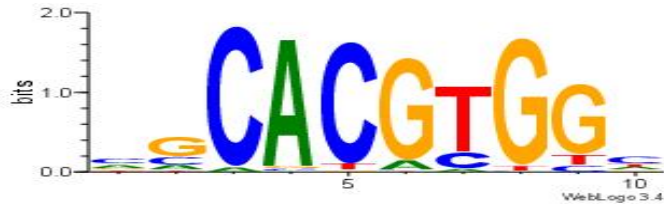
Consensus sequence: HDGTGCGGTGDCVB



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

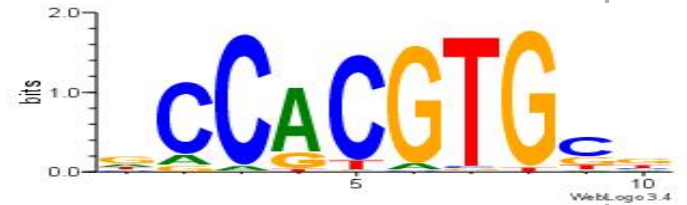
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



### Best Matches for Motif ID 34 (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:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0

Alignment:

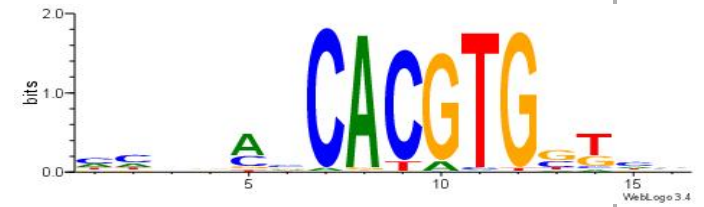
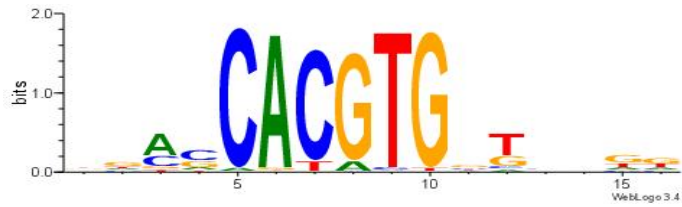
```
DDASCACGTGBTBVDD  
--VGCACGTGGH----
```

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

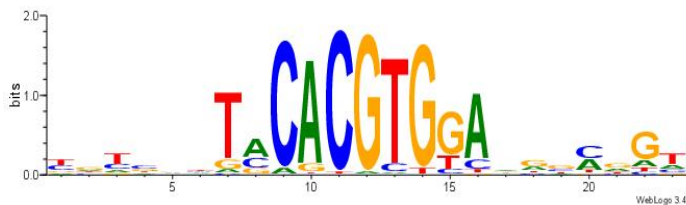


Motif ID: [UP00050](#)  
 Motif name: Bhlhb2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00631885

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

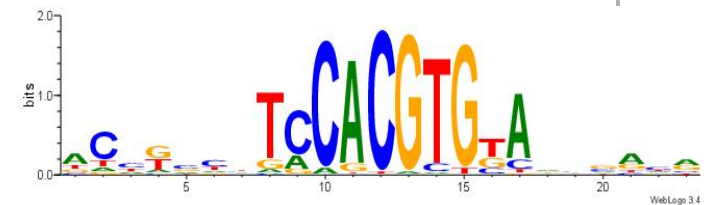
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

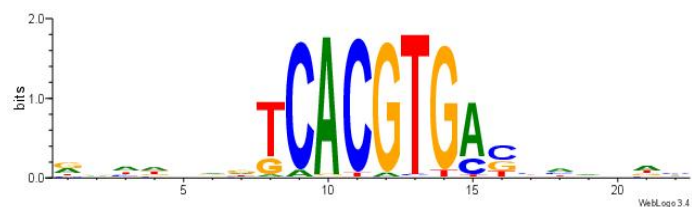
Motif name: Bhlhb2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.00821668

**Alignment:**

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

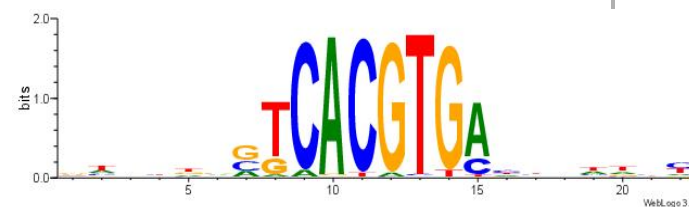
**Original motif**

Consensus sequence: RDHDBVDTCACGTGASBHVHDD



**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



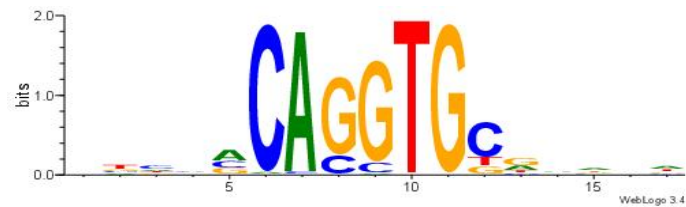
Similarity score: 0.0140005

Alignment:

DHDBHGCACCTGBDDVB  
----VGCACGTGGH----

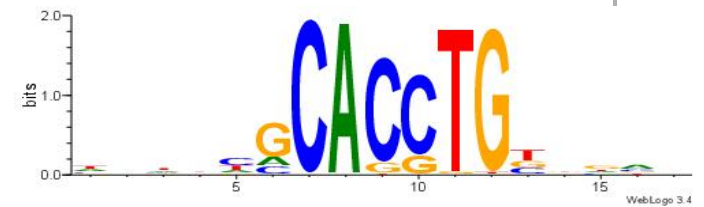
Original motif

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:

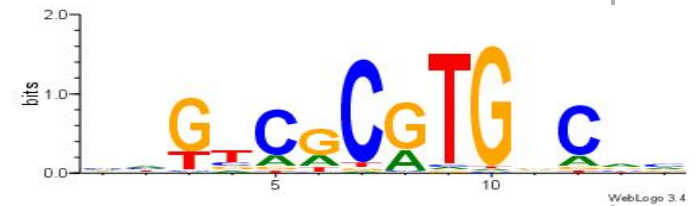
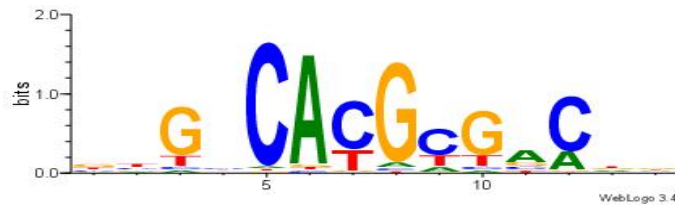
BBGHCACGCGACDD  
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTTCGCTGDCVB



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

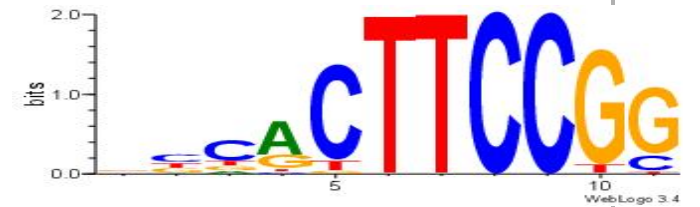
Original motif

Consensus sequence: CCGGAAGTGVV



Reverse complement motif

Consensus sequence: VVCACTTCCGG



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

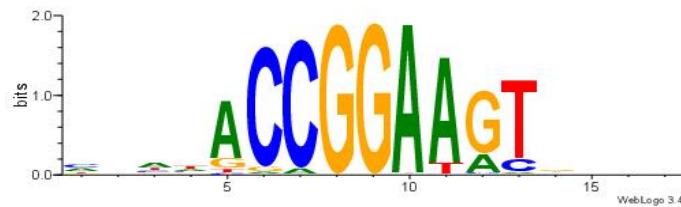
Motif ID:	<a href="#">UP00013</a>
Motif name:	Gabpa_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0

Alignment:

BHHHACTTCCGGTHHBD  
-VCACTTCCGG-----

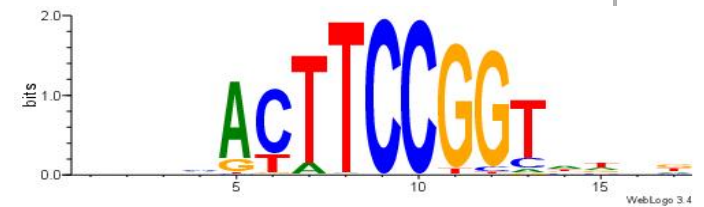
Original motif

Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif

Consensus sequence: BHHHACTTCCGGTHHBD



Motif ID: [UP00410](#)  
Motif name: Elk1  
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: 0.000136484

Alignment:

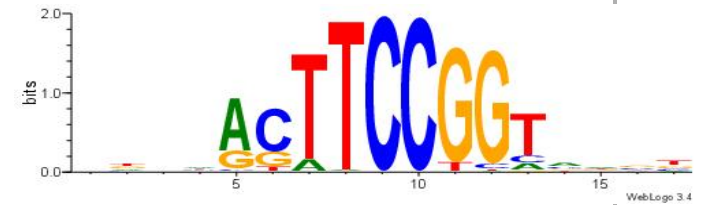
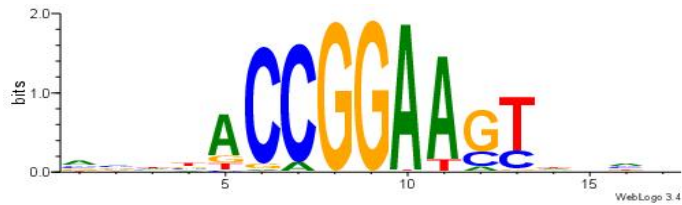
VVHBACCGGAAGTDBHD  
-----CCGGAAGTGVV-

Original motif

Consensus sequence: VVHBACCGGAAGTDBHD

Reverse complement motif

Consensus sequence: DHBDACCTCCGGTVHVB

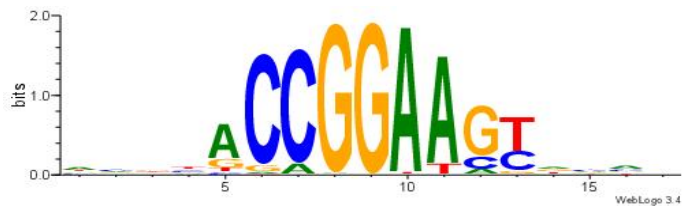


Motif ID: [UP00420](#)  
 Motif name: Elk3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.000219706

Alignment:  
 DVBBACCGGAAGYDVVV  
 -----CCGGAAGTGVV-

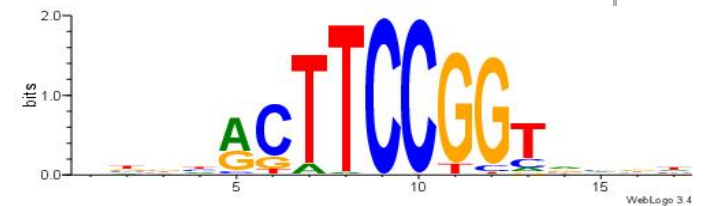
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



Motif ID: [UP00421](#)

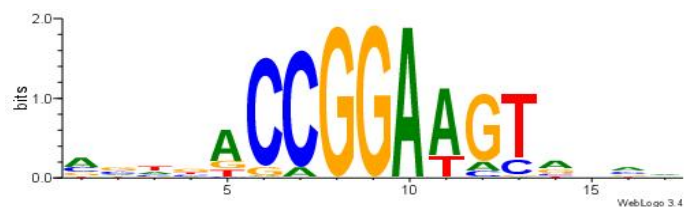
Motif name: Etv1  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 11  
 Similarity score: 0.000932023

**Alignment:**

MVHBACCGGAAGTVDVH  
 -----CCGGAAGTGVV-

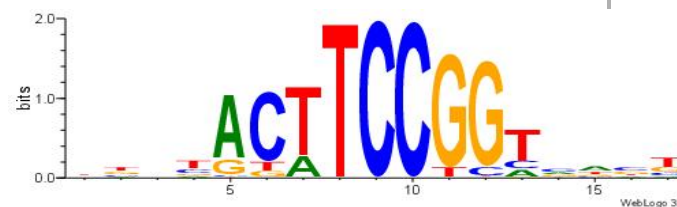
**Original motif**

Consensus sequence: MVHBACCGGAAGTVDVH



**Reverse complement motif**

Consensus sequence: HBDBACTTCCGGTBHVY




---

Motif ID: [UP00404](#)  
 Motif name: Elf2  
 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: 0.00527483

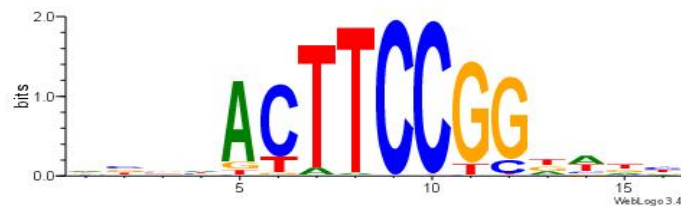
Alignment:

DBBHACTTCCGGDWDB

-VVCACTTCCGG-----

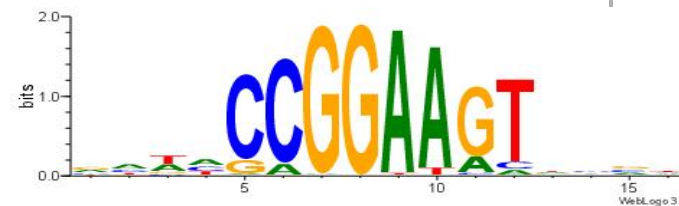
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

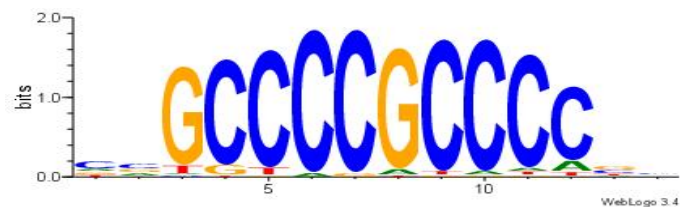
Consensus sequence: BDWDCCGGAAGTHBBD



**Dataset #: 4      Motif ID: 36      Motif name: csGCCCCGCCCCsc**

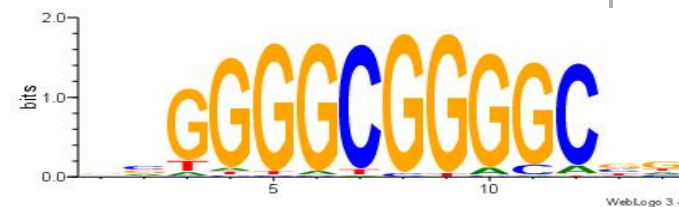
Original motif

Consensus sequence: HVGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



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

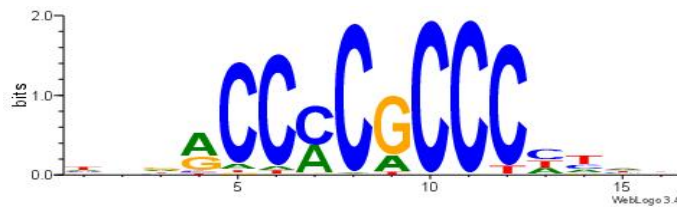
Motif ID: [UP00093](#)  
Motif name: Klf7\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0

Alignment:  
 HBDRC~~CMCGCCCHH~~HD  
 -HVGCC~~CCGCCCCB~~B-

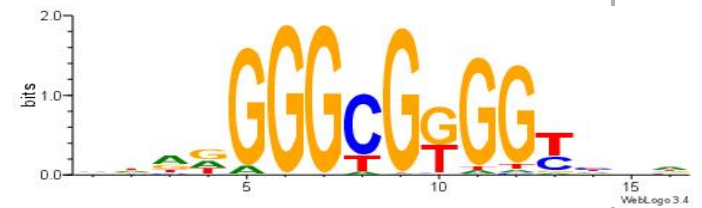
Original motif

Consensus sequence: HBDRC~~CMCGCCCHH~~HD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH




---

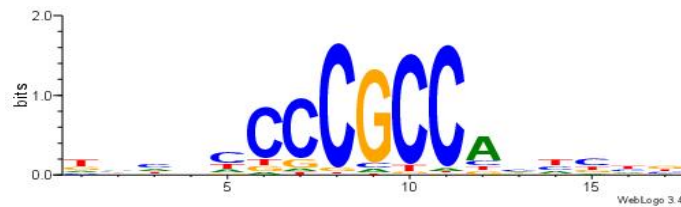
Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0106621

Alignment:

DHHBCCCCGCCAHHBHB  
-HVGCCCCGCCCCBB--

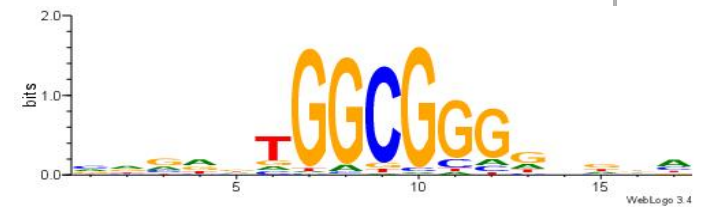
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: [UP00021](#)  
Motif name: Zfp281\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.017761

Alignment:

DBCCCCCCCCMYC  
-HVGCCCCGCCCCBB

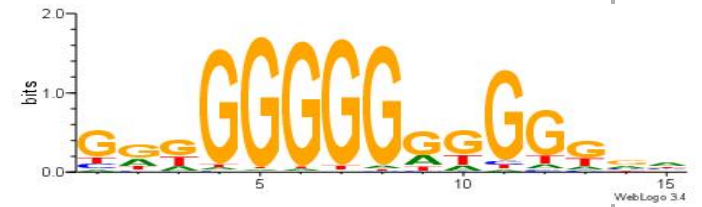
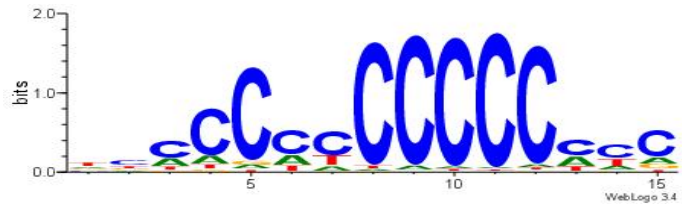
Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

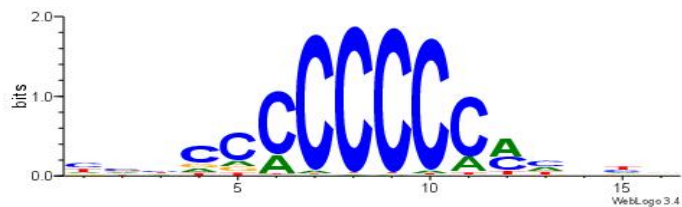




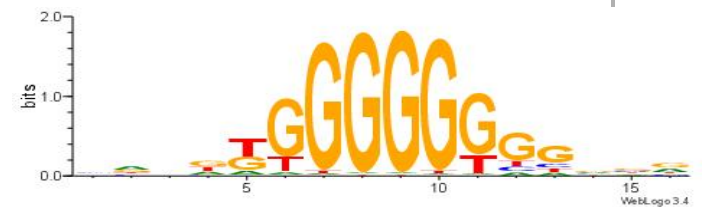
Motif ID: [UP00022](#)  
 Motif name: Zfp740\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0181905

Alignment:  
 HVBCCCCCCCCMHHHB  
 HVGCCCCGCCCCBB--

Original motif  
 Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif  
 Consensus sequence: BHHDYGGGGGGGGGBVD

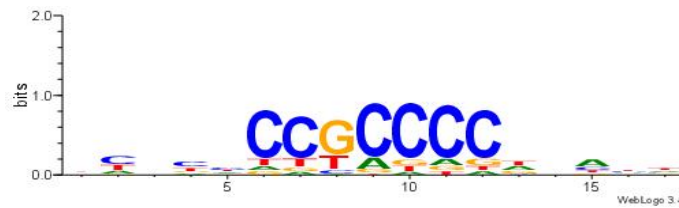


Motif ID: [UP00033](#)  
 Motif name: Zfp410\_secondary

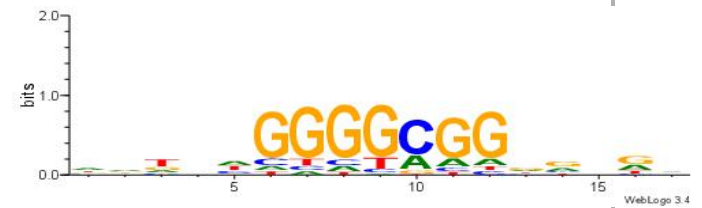
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0225788

Alignment:  
 BHHBHCCGCCCDHHHH  
 HVGCCCGCCCCBB---

Original motif  
 Consensus sequence: BHHBHCCGCCCDHHHH

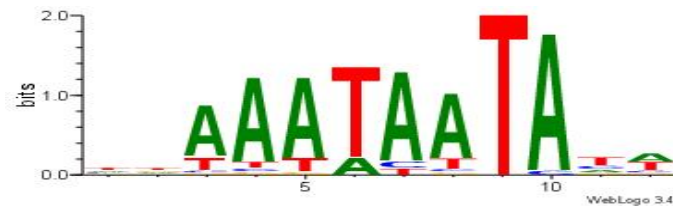


Reverse complement motif  
 Consensus sequence: HHHHDGGGGCGGDBHDV

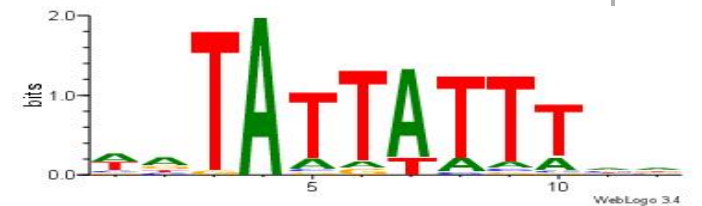


**Dataset #: 4      Motif ID: 37      Motif name: tkAAATAATatw**

Original motif  
 Consensus sequence: HDAAATAATAHW



Reverse complement motif  
 Consensus sequence: WHTATTATTTDH



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

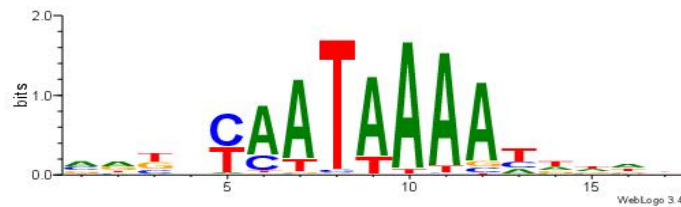
Motif ID: [UP00121](#)  
Motif name: Hoxd10  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 12  
Similarity score: 0.00353196

### Alignment:

```
HDDDATTTTATTKVRDB  
---WHTATTATTTDH---
```

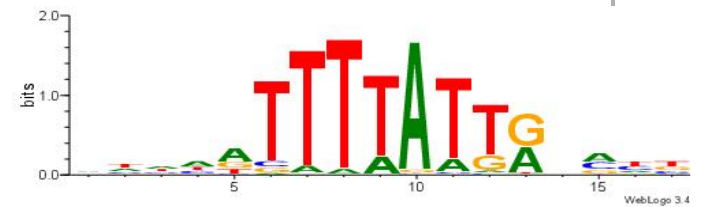
### Original motif

Consensus sequence: VDKVYAATAAAATDDDH



### Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



---

Motif ID: [UP00244](#)  
Motif name: Tlx2  
Species: Mus musculus  
Matching format of first motif: Reverse Complement

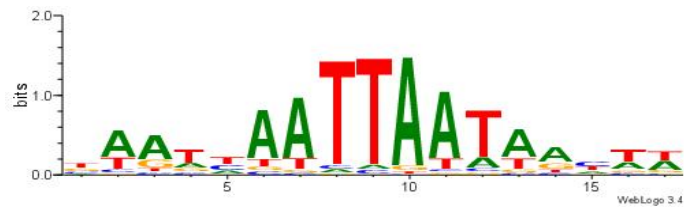
Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.00646023

Alignment:

WWDTTATTAATTHATTV  
 --WHTATTATTTDH---

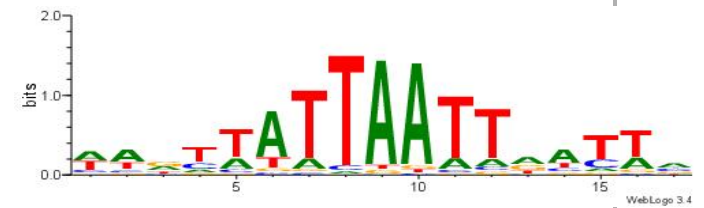
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV




---

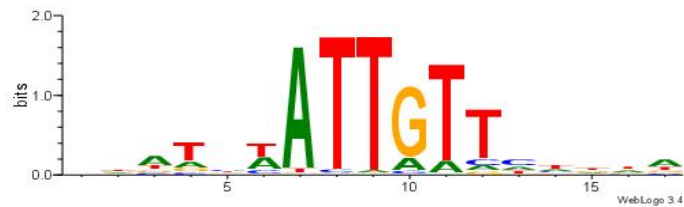
Motif ID: [UP00051](#)  
 Motif name: Sox8\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.0120674

Alignment:

DDDHDAACAATWBATDD  
--HDAAATAATAHW---

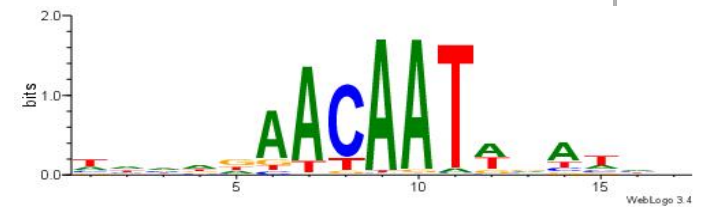
Original motif

Consensus sequence: DDATBWATTGTTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



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

Alignment:

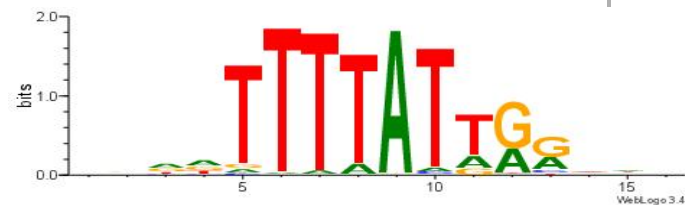
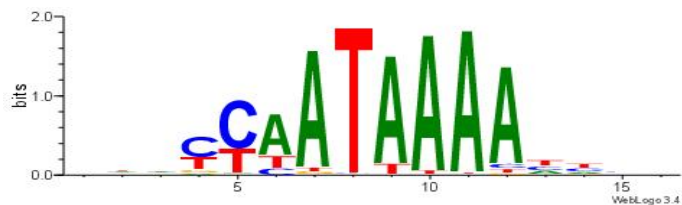
HDHHTTTTATTKKHDD  
--WHTATTATTTDH--

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

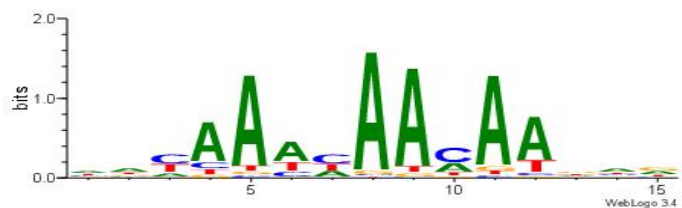


Motif ID: [UP00037](#)  
 Motif name: Zfp105\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0129559

Alignment:  
 HHHTTRTTDTTTKDH  
 --WHTATTATTTDH-

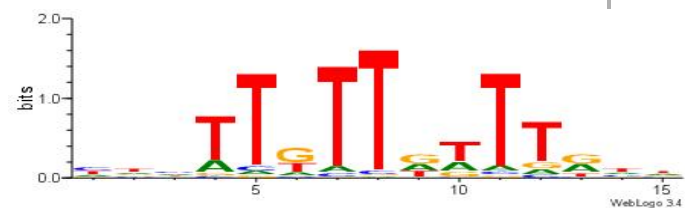
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

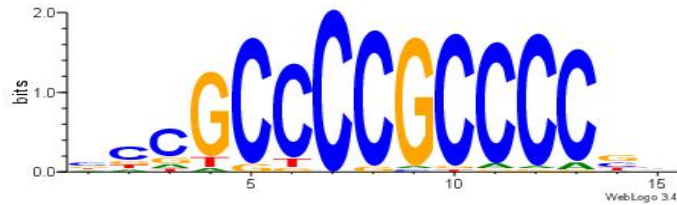
Consensus sequence: HHHTTRTTDTTTKDH



**Dataset #: 4      Motif ID: 38      Motif name: cccGCCCGCCCSb**

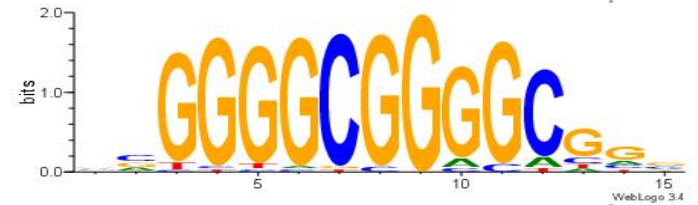
Original motif

Consensus sequence: BCCGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCGGB



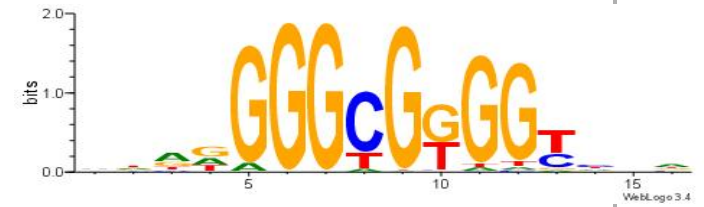
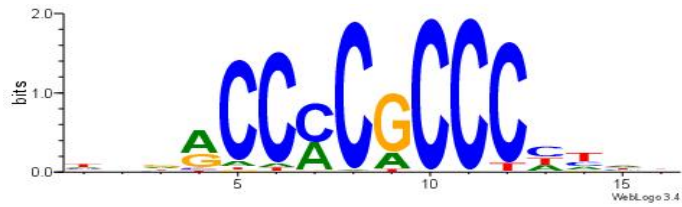
**Best Matches for Motif ID 38 (Highest to Lowest)**

Motif ID: [UP00093](#)  
 Motif name: Klf7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 15  
 Similarity score: 0.00481788

Alignment:  
 HBDRCMCGCCHHHD  
 BCCGCCCCGCCCCBB-

Original motif  
 Consensus sequence: HBDRCMCGCCHHHD

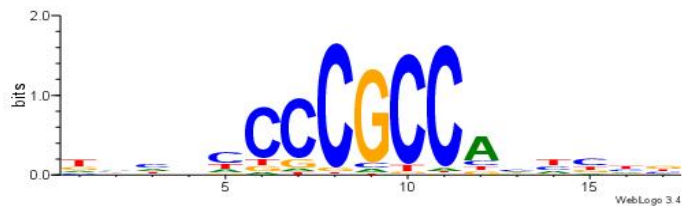
Reverse complement motif  
 Consensus sequence: DHHDGGGCGRGGKHBH



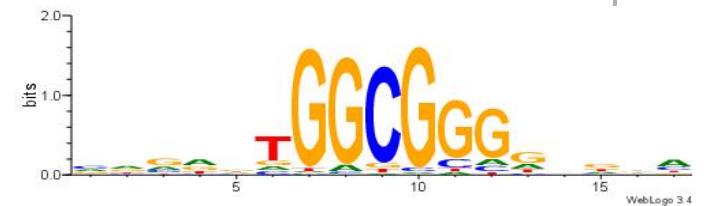
Motif ID: [UP00000](#)  
 Motif name: Smad3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 15  
 Similarity score: 0.0108117

Alignment:  
 DHHBCCCCGCCAHHBHB  
 BCCGCCCCGCCCCBB--

Original motif  
 Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif  
 Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00021](#)

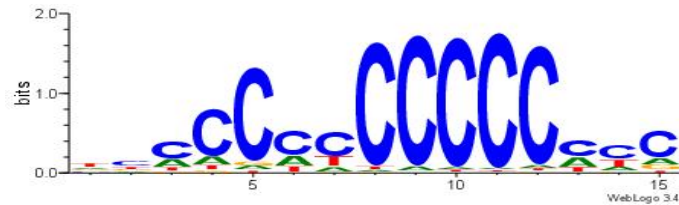


Motif name: Zfp281\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.0154152

Alignment:  
GKRGGGGGGGGGGBD  
BBGGGGCGGGGCGGB

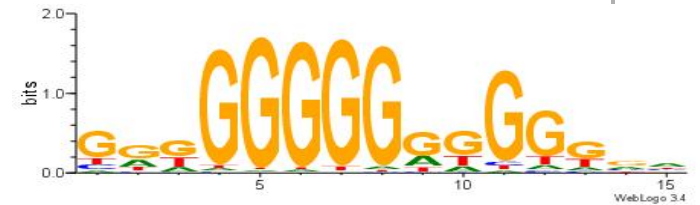
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



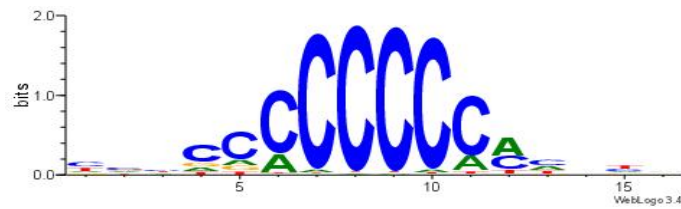
Motif ID: [UP00022](#)  
Motif name: Zfp740\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.018287

Alignment:

HVBCCCCCCCCMHHHB  
BCCGCCCCGCCCCBB-

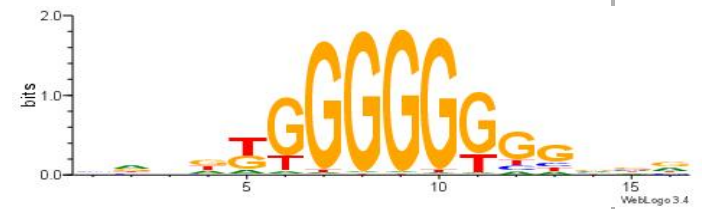
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



Motif ID: [UP00002](#)  
Motif name: Sp4\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 15  
Similarity score: 0.0247447

Alignment:

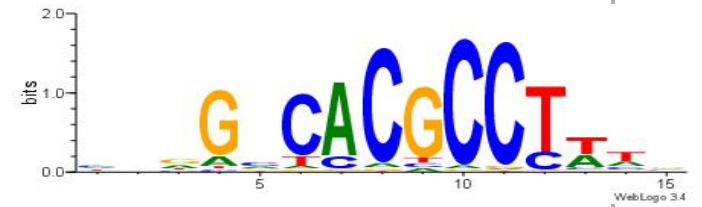
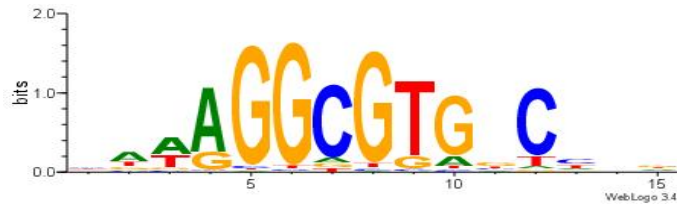
BDWAGGCGTGBCCHD  
BBGGGGCGGGGCGGB

Original motif

Consensus sequence: BDWAGGCGTGBCCHD

Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



**Dataset #: 4      Motif ID: 39      Motif name: kCAGCCAATmr**

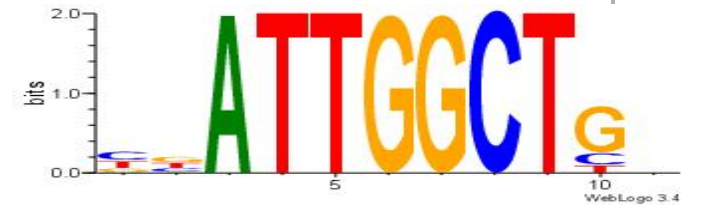
Original motif

Consensus sequence: DCAGCCAATVR



Reverse complement motif

Consensus sequence: MBATTGGCTGH



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

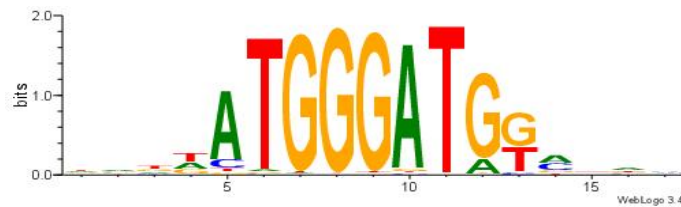
Motif ID:	<a href="#">UP00033</a>
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.000708728

Alignment:

BDDYYCATCCCATDDBD  
----DCAGCCAATVR--

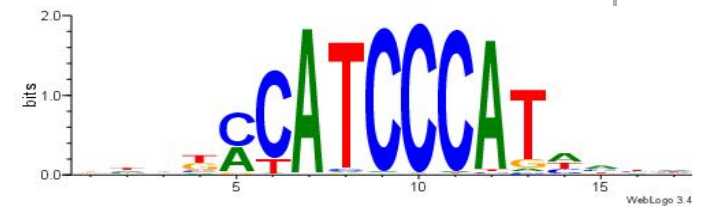
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



Motif ID: [UP00004](#)  
Motif name: Sox14\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.00658734

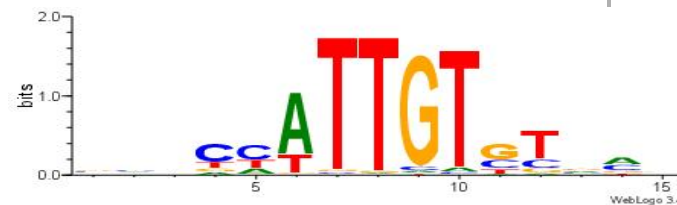
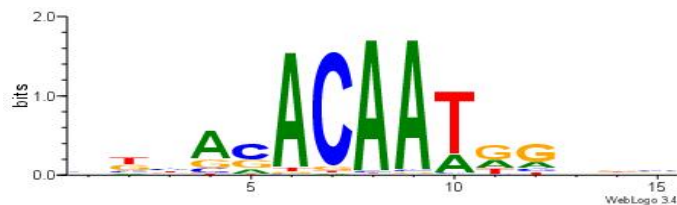
Alignment:  
BKBASACAATRGHBB  
-DCAGCCAATVR---

Original motif

Consensus sequence: BKBASACAATRGHBB

Reverse complement motif

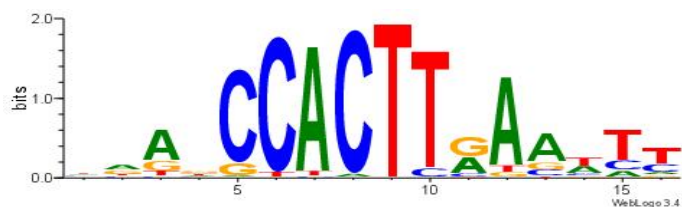
Consensus sequence: BBDCMATTGTSTBRB



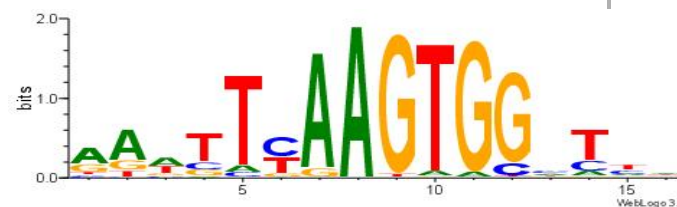
Motif ID: [UP00249](#)  
 Motif name: Nkx2-5  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 11  
 Similarity score: 0.00805715

Alignment:  
 AAWTTMAAGTGGHTDH  
 -----MBATTGGCTGH

Original motif  
 Consensus sequence: HDADCCACTTAAWTT



Reverse complement motif  
 Consensus sequence: AAWTTMAAGTGGHTDH



Motif ID: [UP00147](#)  
 Motif name: Nkx2-6

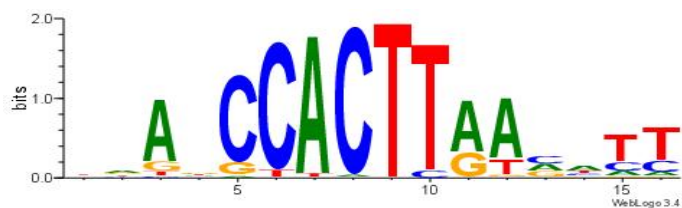
Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0128272

**Alignment:**

DDADCCACTTAAVHTT  
 DCAGCCAATVR-----

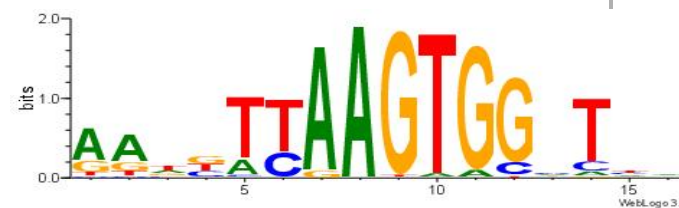
**Original motif**

Consensus sequence: DDADCCACTTAAVHTT



**Reverse complement motif**

Consensus sequence: AAHVTTAAGTGGHTDD




---

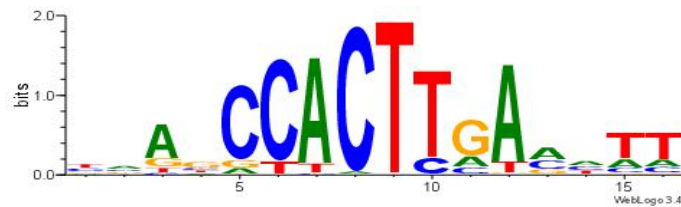
Motif ID: [UP00165](#)  
 Motif name: Titf1  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 11  
 Similarity score: 0.0131729

Alignment:

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

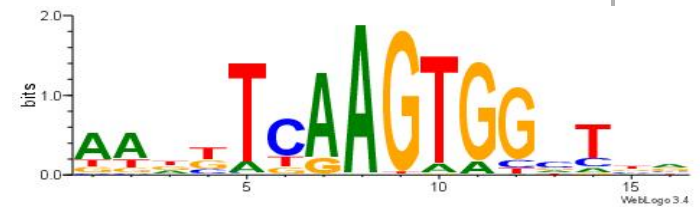
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



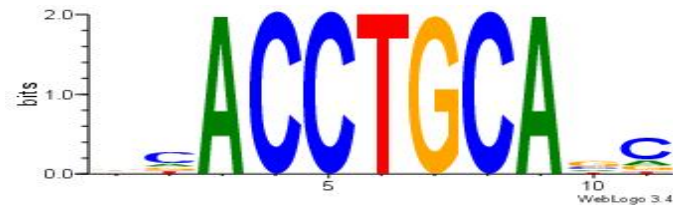
**Dataset #: 4**

**Motif ID: 40**

**Motif name: kcACCTGCAGc**

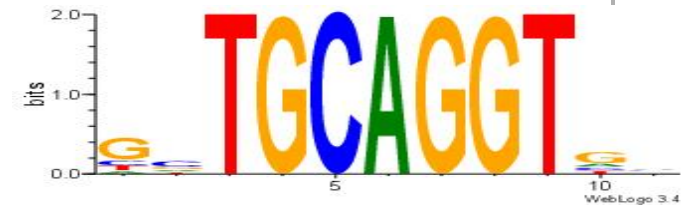
Original motif

Consensus sequence: BCACCTGCABC



Reverse complement motif

Consensus sequence: GTGCAGGTGB



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

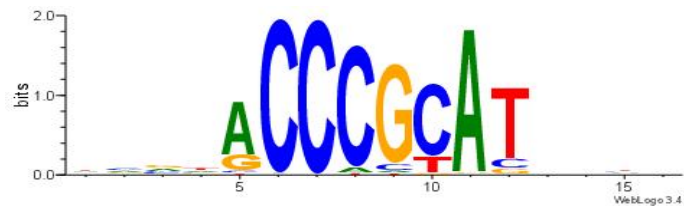
Motif ID:	<a href="#">UP00070</a>
Motif name:	Gcm1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

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

Alignment:  
DHDVATGCGGGTHVVH  
---GBTGCAGGTGB--

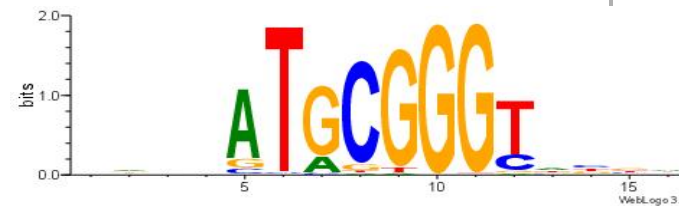
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



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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: 4  
Number of overlap: 11  
Similarity score: 0.000503863

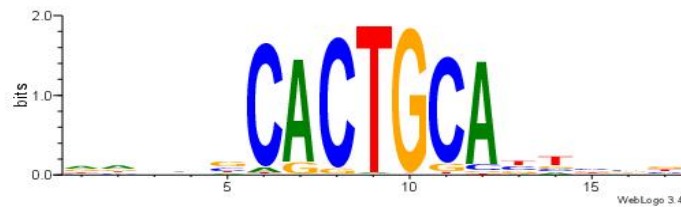
Alignment:



BBBAVTGCAGTGBBVDD  
---GBTGCAGGTGB---

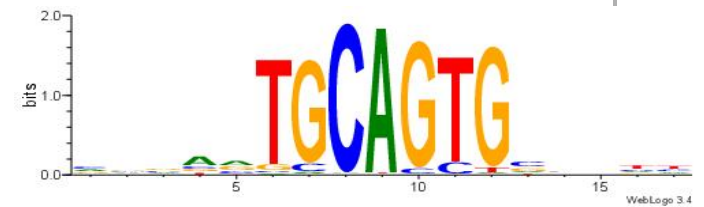
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00046](#)  
Motif name: Tcfe2a\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 6  
Number of overlap: 11  
Similarity score: 0.000557448

Alignment:

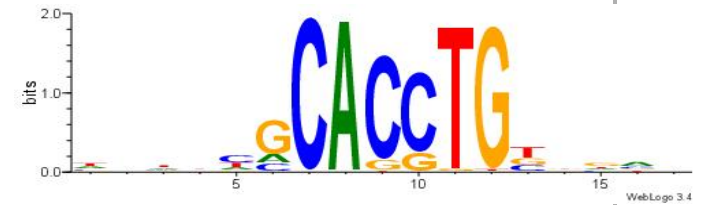
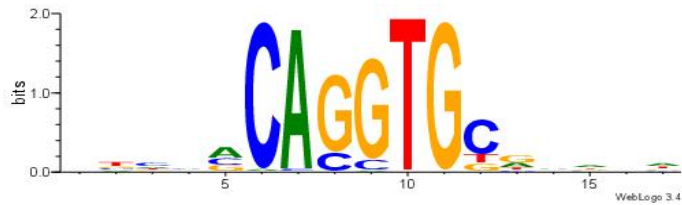
DHDBHGCACCTGBDDVB  
-----BCACCTGCABC-

Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD

Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB

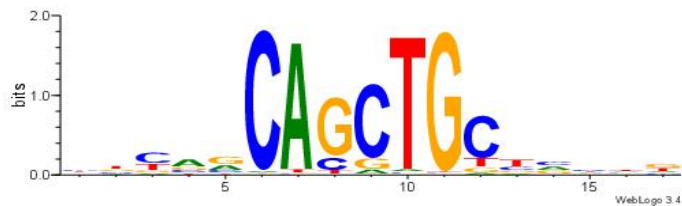


Motif ID: [UP00099](#)  
 Motif name: Ascl2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.00842747

Alignment:  
 BBYVVCAGCTGCBVHHD  
 ----BCACCTGCABC--

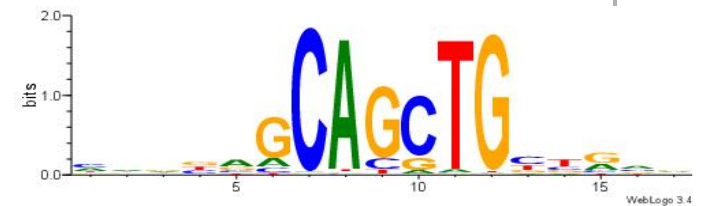
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HDDVVCAGCTGVBKVB



Motif ID: [UP00420](#)

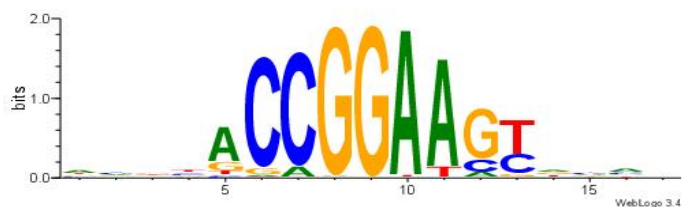
Motif name: Elk3  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 11  
 Similarity score: 0.0111732

**Alignment:**

DVBBACCGGAAGYDVVV  
 --BCACCTGCABC-----

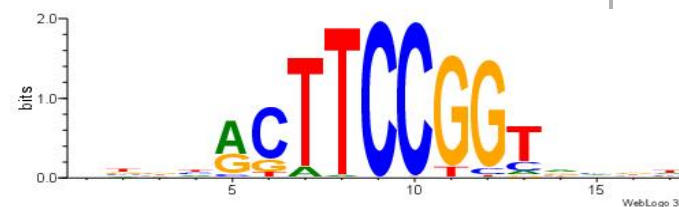
**Original motif**

Consensus sequence: DVBBACCGGAAGYDVVV



**Reverse complement motif**

Consensus sequence: VBVDMCTTCCGGTVBVD




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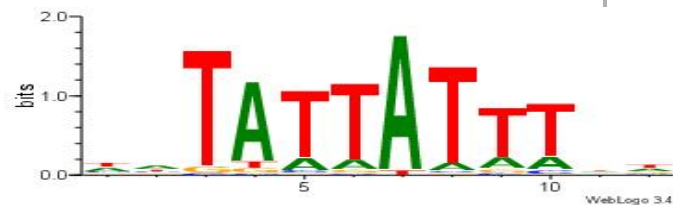
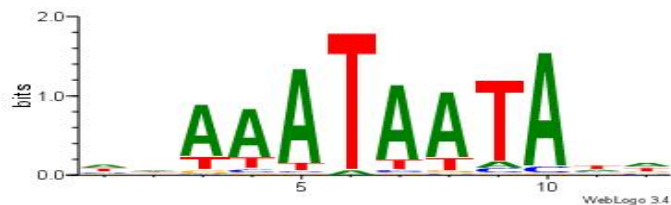
**Dataset #: 4      Motif ID: 41      Motif name: wwAAATAATAtw**

**Original motif**

Consensus sequence: HDAAATAATADD

**Reverse complement motif**

Consensus sequence: DDTATTATTTDH



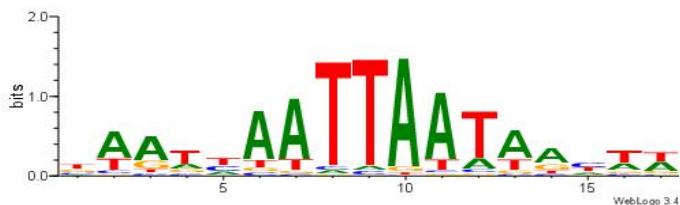
### Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID: [UP00244](#)  
 Motif name: Tlx2  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.00576686

Alignment:  
 WWDTTATTAATTHATTV  
 --DDTATTATTTDH---

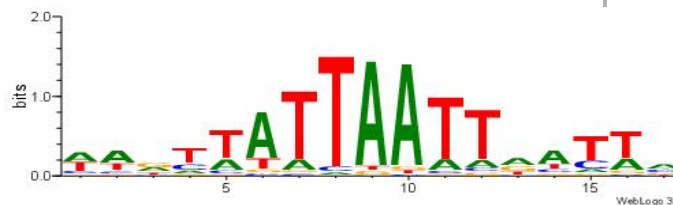
#### Original motif

Consensus sequence: BAATHAATTAATAAHWW



#### Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV

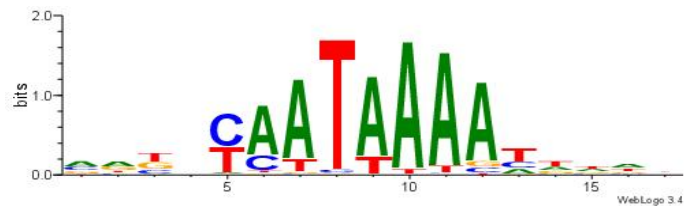


Motif ID: [UP00121](#)  
 Motif name: Hoxd10  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 12  
 Similarity score: 0.00673636

Alignment:  
 HDDDATTTTATTKVRDB  
 ---DDTATTATTTDH--

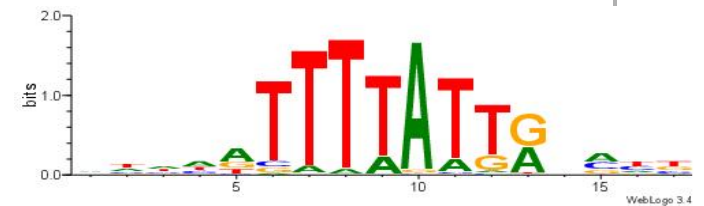
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



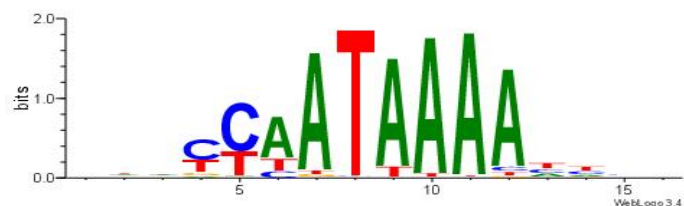
Motif ID: [UP00180](#)  
 Motif name: Hoxd13  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3

Number of overlap: 12  
Similarity score: 0.00685179

Alignment:  
HDHHTTTTATTKKHDD  
--DDTATTATTTDH--

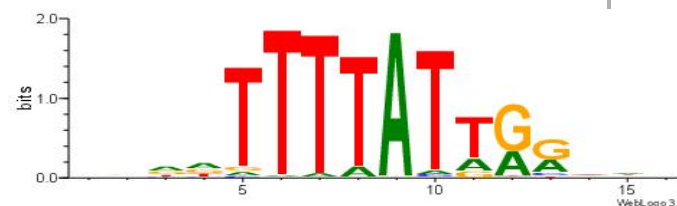
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00073](#)  
Motif name: Foxa2\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 1  
Number of overlap: 12  
Similarity score: 0.0108327

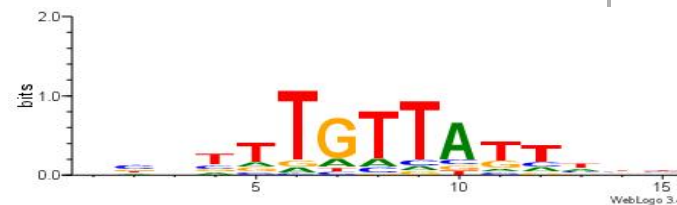
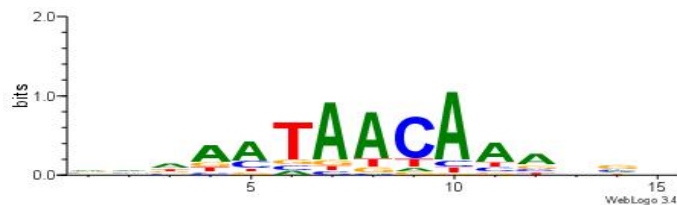
Alignment:  
VVDAATAACAAAVVB  
HDAAATAATADD---

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

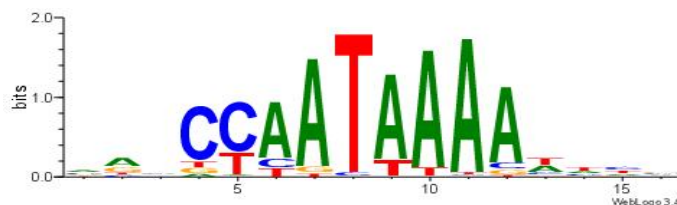
Consensus sequence: BVVTTTGTATTDBB



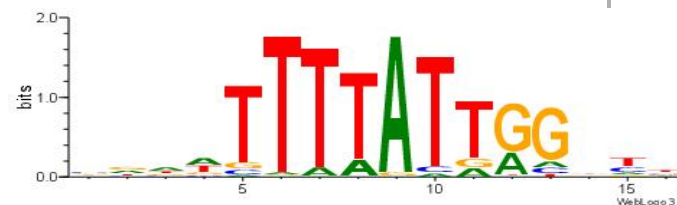
Motif ID: [UP00134](#)  
 Motif name: Hoxb13  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 12  
 Similarity score: 0.0121723

Alignment:  
 VDHWT TTTATTGGDKB  
 --DDTATTATTTDH--

Original motif  
 Consensus sequence: VRHCCAATAAAWHHV



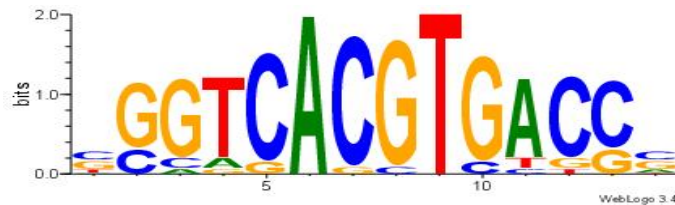
Reverse complement motif  
 Consensus sequence: VDHWT TTTATTGGDKB



**Dataset #: 4      Motif ID: 42      Motif name: sSGTCACGTGACs**

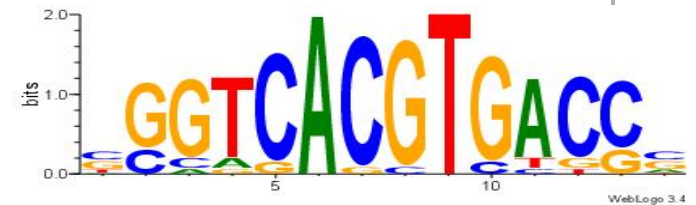
Original motif

Consensus sequence: SGGTCACGTGACCS



Reverse complement motif

Consensus sequence: SGGTCACGTGACCS



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

Motif ID: [UP00050](#)  
Motif name: Bhlhb2\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 14  
Similarity score: 0

Alignment:

```
RDHDBVDTACGTGASBHVHDH  
----SGGTCACGTGACCS----
```

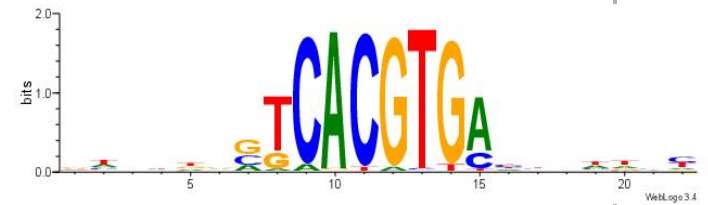
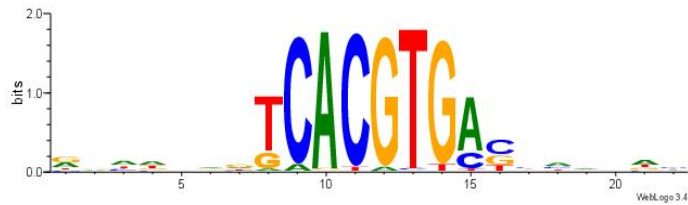
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH

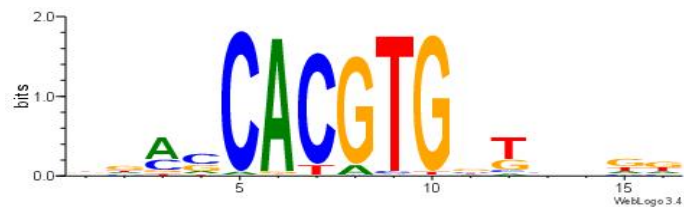




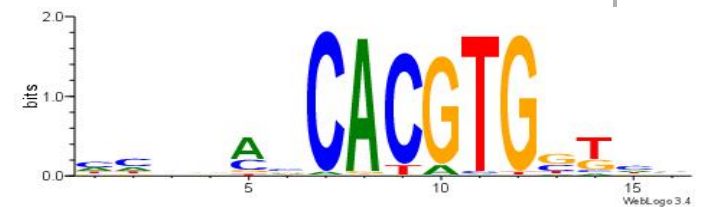
Motif ID: [UP00060](#)  
 Motif name: Max\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0226905

Alignment:  
 DDASCACGTGBTBVDD  
 --SGGTCACGTGACCS

Original motif  
 Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif  
 Consensus sequence: HHVBABCACGTGSTHD



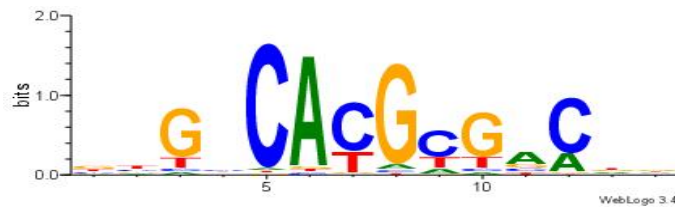
Motif ID: [UP00060](#)  
 Motif name: Max\_secondary

Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 1  
 Number of overlap: 14  
 Similarity score: 0.0240371

Alignment:  
 BBGHCACGCGACDD  
 SGGTCACGTGACCS

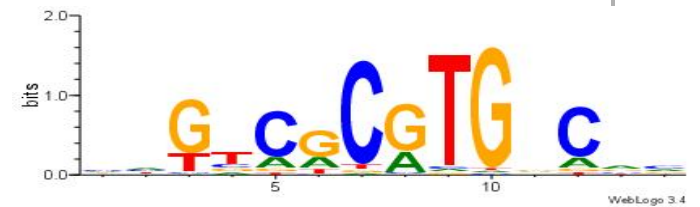
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB




---

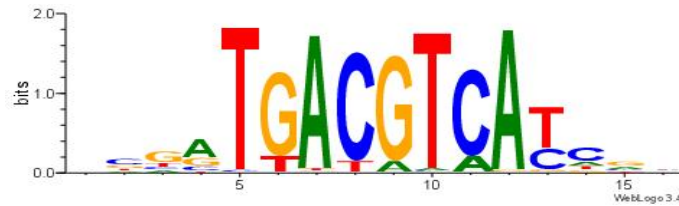
Motif ID: [UP00103](#)  
 Motif name: Jundm2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0253986

Alignment:

BBGATGACGTCA YCVH  
-SGGTCACGTGACCS-

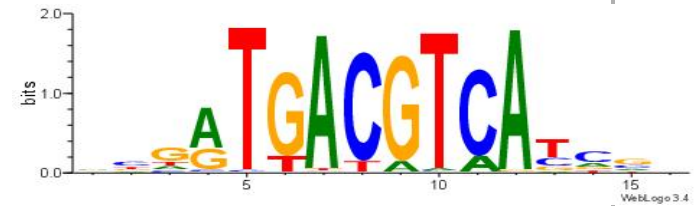
Original motif

Consensus sequence: BBGATGACGTCA YCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCATCBB



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Motif ID: [UP00020](#)  
Motif name: Atf1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0259163

Alignment:

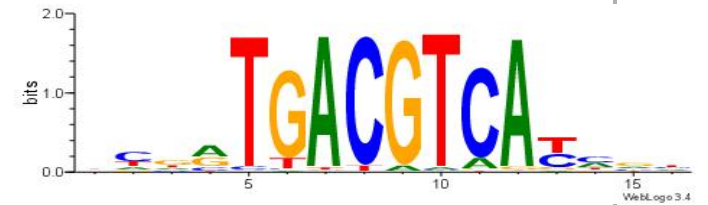
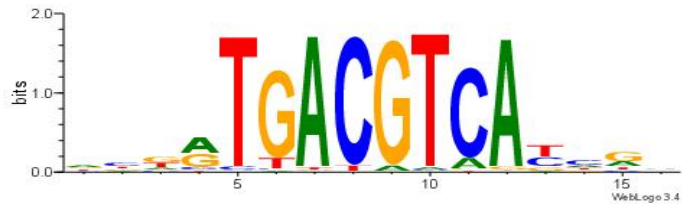
DBDRTGACGTCA YHRD  
-SGGTCACGTGACCS-

Original motif

Consensus sequence: DBDRTGACGTCA YHRD

Reverse complement motif

Consensus sequence: DMDMTGACGTCAKHBD



**Dataset #: 4      Motif ID: 43      Motif name: wsTACwGTAsw**

Original motif

Consensus sequence: HVTACWG TABD



Reverse complement motif

Consensus sequence: DBTACWG TAVH



**Best Matches for Motif ID 43 (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:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

HHHHGCTACKGTHVHH  
----DBTACWGTAVH-

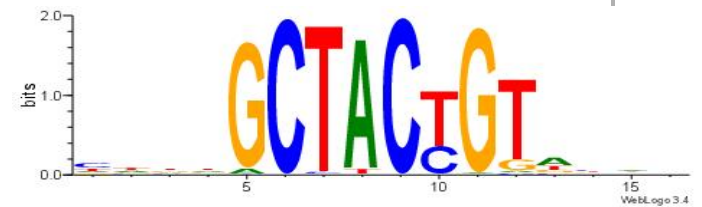
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



Motif ID: [UP00027](#)  
Motif name: Osr1\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 11  
Similarity score: 0.00480574

Alignment:

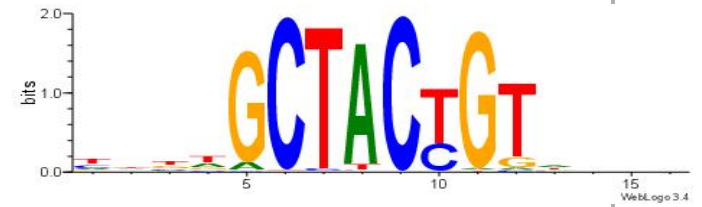
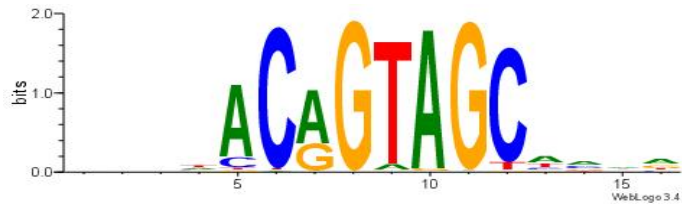
DHBHGCTACKGTHDHH  
----DBTACWGTAVH-

Original motif

Consensus sequence: HHDHACRGTAGCHVHD

Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH

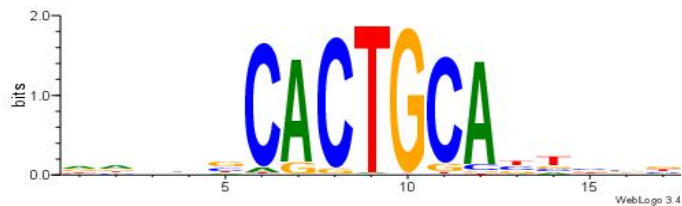


Motif ID: [UP00031](#)  
 Motif name: Zbtb3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.0165381

Alignment:  
 BBBAVTGCAGTGBBVDD  
 ---HVTACWGTTABD---

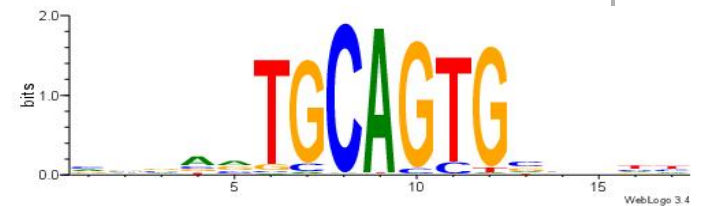
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00034](#)

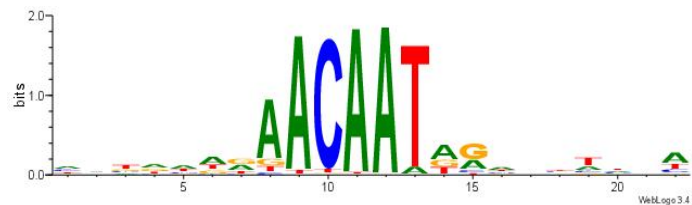
Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 11  
 Similarity score: 0.0248017

Alignment:

HHBDHDDAACAATDRHHHHHBW  
 -----DBTACWGTAVH-----

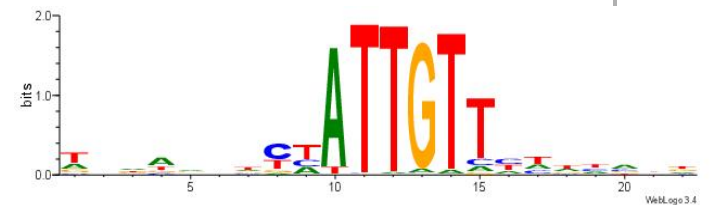
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH




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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: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 11

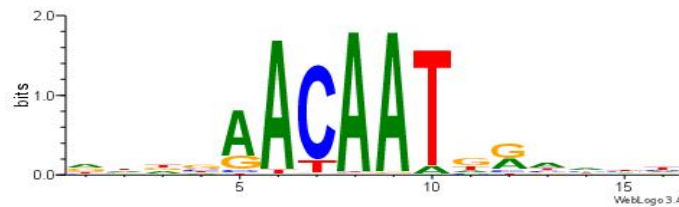
Similarity score: 0.0294174

Alignment:

HHHHMHATTGTTBDHD  
---HVTACWGTTABD---

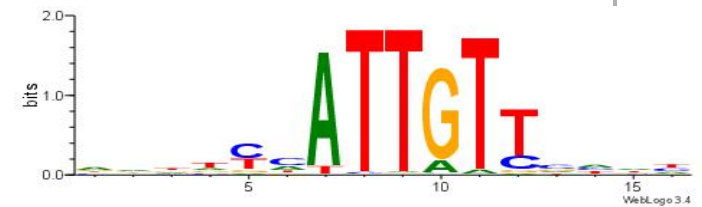
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

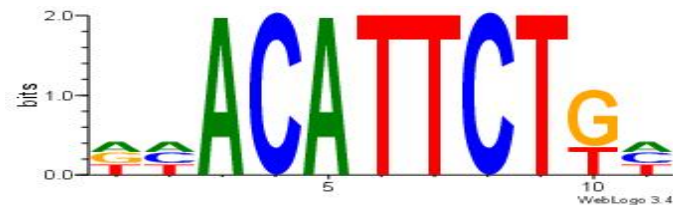
Consensus sequence: HHHHMHATTGTTBDHD



**Dataset #: 4      Motif ID: 44      Motif name: dhACATTCTkh**

Original motif

Consensus sequence: DHACATTCTGH



Reverse complement motif

Consensus sequence: HCAGAATGTHD



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

Motif ID: [UP00038](#)  
Motif name: Spdef\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement



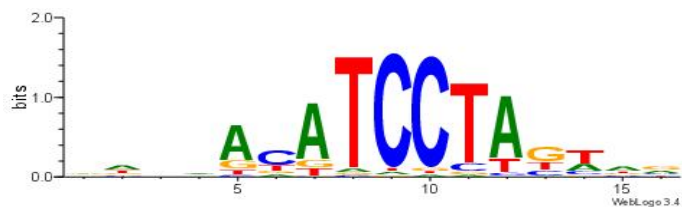
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.00581553

Alignment:

VDWYTAGGATGTHVDH  
---HCAGAATGTHD---

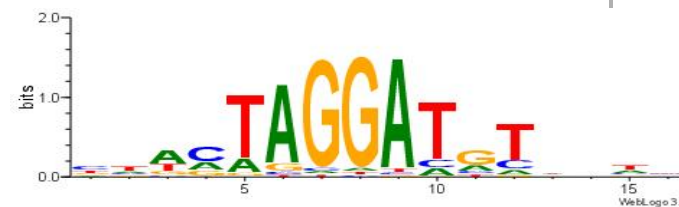
Original motif

Consensus sequence: DDBHACATCCTAKWDV



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH



---

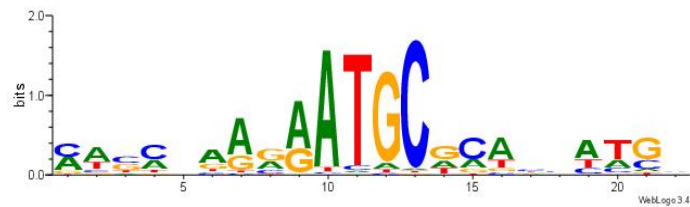
Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 8  
Number of overlap: 11  
Similarity score: 0.00582895

Alignment:

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

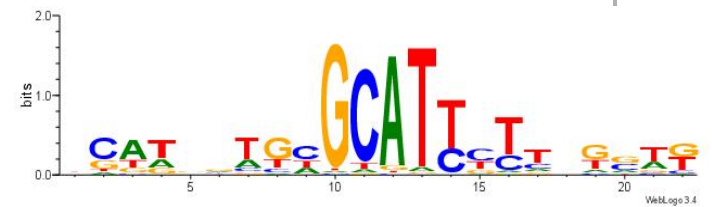
Original motif

Consensus sequence: MWSMBAARRATGDCABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR

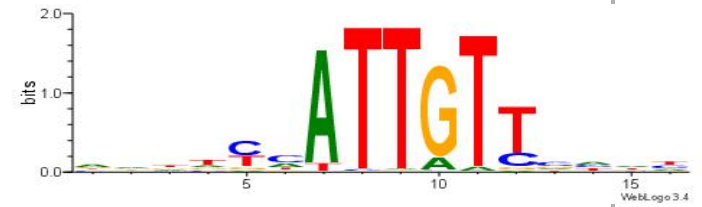
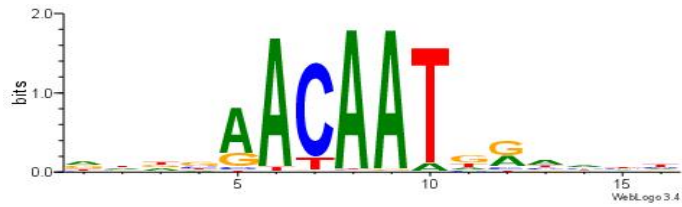


Motif ID: [UP00023](#)  
Motif name: Sox30\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 4  
Number of overlap: 11  
Similarity score: 0.00613057

Alignment:  
HHHHMHATTGTTBDHD  
--DHACATTCTGH---

Original motif  
Consensus sequence: DHDBAACAATDRHHHH

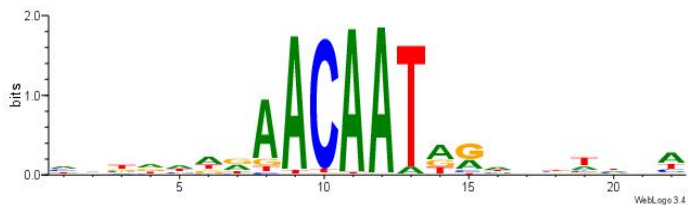
Reverse complement motif  
Consensus sequence: HHHMHATTGTTBDHD



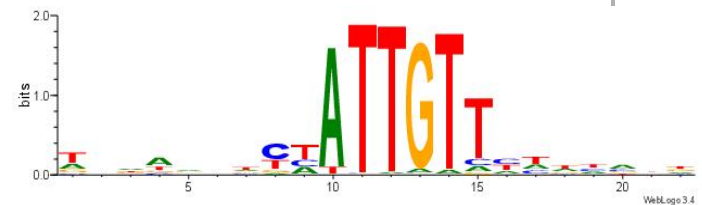
Motif ID: [UP00034](#)  
 Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 6  
 Number of overlap: 11  
 Similarity score: 0.0119275

Alignment:  
 WBHHHHHMDATTGTTDHDVHH  
 -----DHACATTCTGH-----

Original motif  
 Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif  
 Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00030](#)

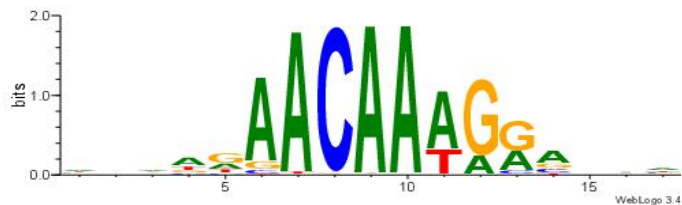
Motif name: Sox11\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0.0122803

**Alignment:**

HHBTMCTTTGTTMDDVH  
 --DHACATTCTGH-----

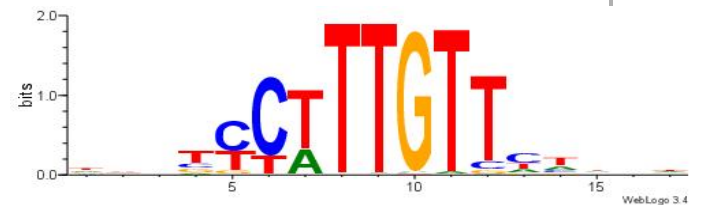
**Original motif**

Consensus sequence: HBDDRAACAAAGRABHH



**Reverse complement motif**

Consensus sequence: HHBTMCTTTGTTMDDVH



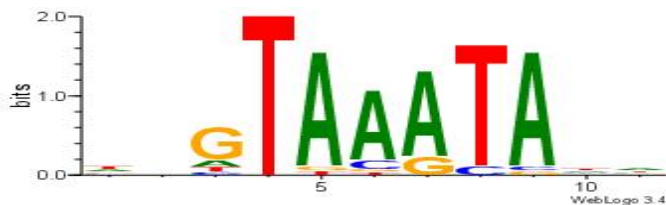
**Dataset #: 4      Motif ID: 45      Motif name: wbgTAAATAww**

**Original motif**

Consensus sequence: DBGTAATAHD

**Reverse complement motif**

Consensus sequence: DHTATTTACBD



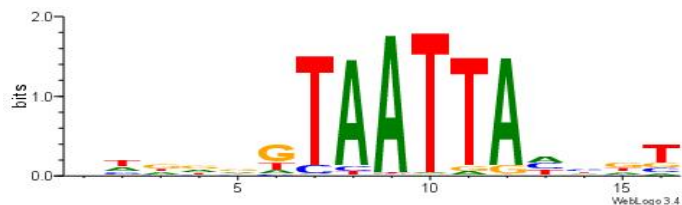
### Best Matches for Motif ID 45 (Highest to Lowest)

Motif ID: [UP00242](#)  
 Motif name: Hoxc8  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 11  
 Similarity score: 0

Alignment:  
 AHDHTAATTACHHHHV  
 --DHTATTTACBD---

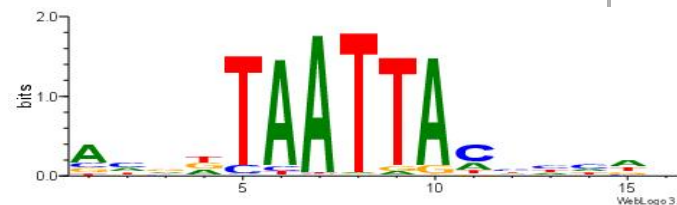
#### Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



#### Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



Motif ID: [UP00073](#)  
 Motif name: Foxa2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 11  
 Similarity score: 0.00453517

**Alignment:**

HHWAWGTAAAYAAVDB  
 ---DBGTAAATAHD---

**Original motif**

Consensus sequence: HHWAWGTAAAYAAVDB



**Reverse complement motif**

Consensus sequence: BDVTTTKTTTACWTWHH

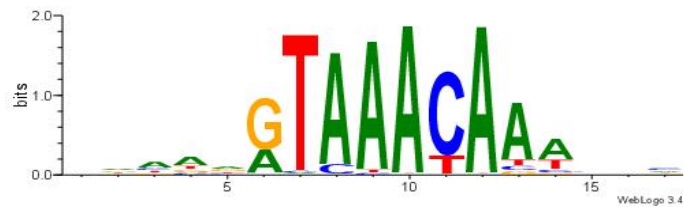


Motif ID: [UP00039](#)  
 Motif name: Foxj3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4

Number of overlap: 11  
Similarity score: 0.00490457

Alignment:  
HDHADGTAAACAAAVVH  
---DBGTAAATAHD---

Original motif  
Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif  
Consensus sequence: DVVTTTGTTCACDTHDH



---

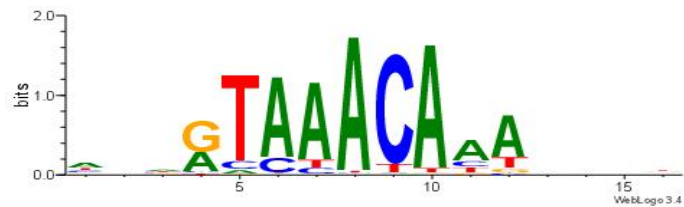
Motif ID: [UP00041](#)  
Motif name: Foxj1\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 5  
Number of overlap: 11  
Similarity score: 0.00656547

Alignment:  
HDHRTAAACAAAHDDD  
-DBGTAAATAHD----

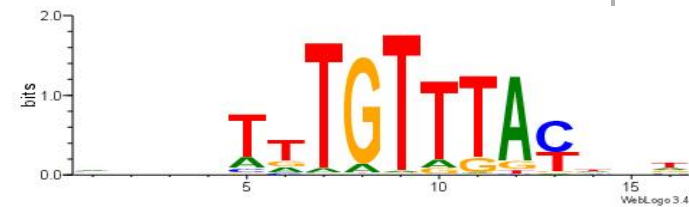
Original motif

Reverse complement motif

Consensus sequence: HDHRTAAACAAHDDD



Consensus sequence: DDDHTTTGTTTAMHDDH



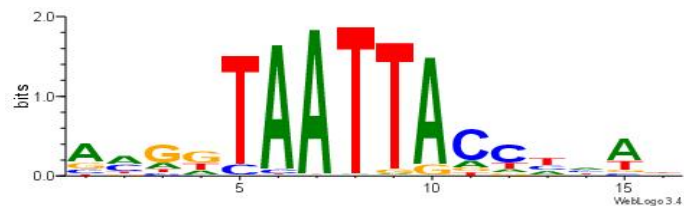
Motif ID: [UP00182](#)  
Motif name: Hoxa6  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 11  
Similarity score: 0.0086354

Alignment:

```
DTHHGGTAATTAYCYT  
---DBGTAAATAHD---
```

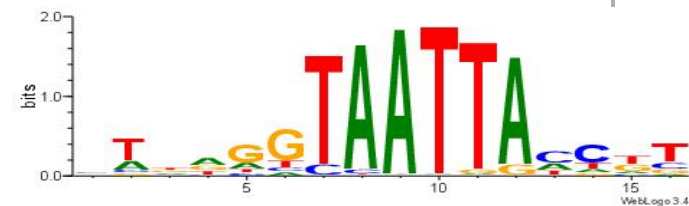
Original motif

Consensus sequence: AMGKTAATTACCHHAD



Reverse complement motif

Consensus sequence: DTHHGGTAATTAYCYT





**Dataset #: 5**

**Motif ID: 46**

**Motif name: TFW1**

Original motif

Consensus sequence: GTCGCG



Reverse complement motif

Consensus sequence: CGCGAC



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

Motif ID: [UP00065](#)  
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 9  
Number of overlap: 6  
Similarity score: 0

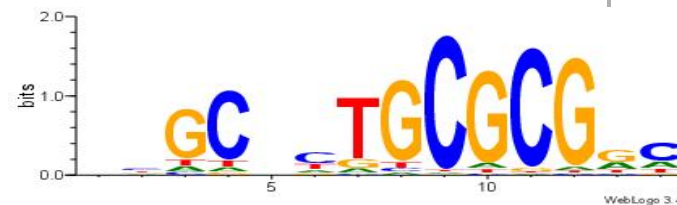
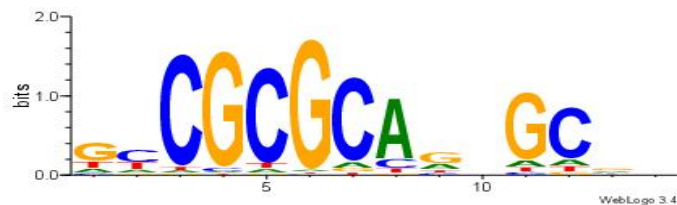
Alignment:  
GYCGCGCARBGCVB  
GTCGCG-----

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC

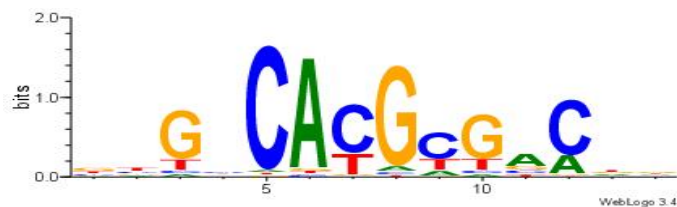


Motif ID: [UP00060](#)  
 Motif name: Max\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 6  
 Similarity score: 0.00875457

Alignment:  
 BBGHCACGCGACDD  
 -----CGCGAC--

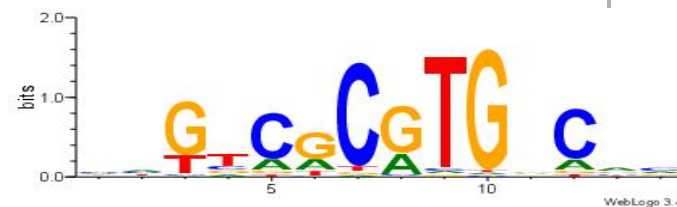
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



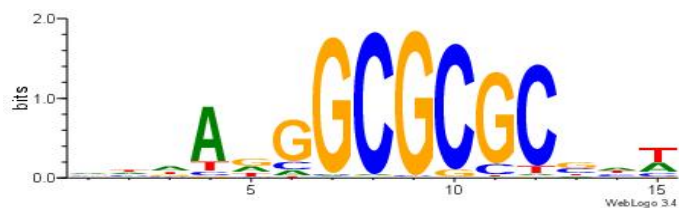
Motif ID: [UP00003](#)

Motif name: E2F3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 6  
 Number of overlap: 6  
 Similarity score: 0.0102952

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

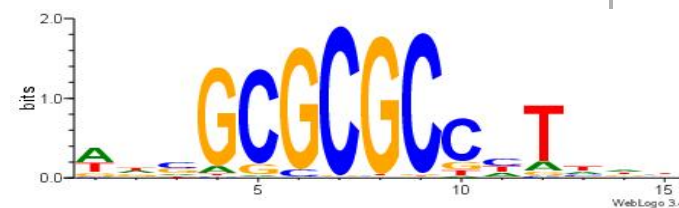
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

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




---

Motif ID: [UP00526](#)  
 Motif name: Foxn1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 6

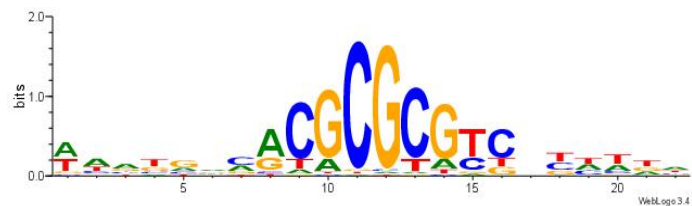
Similarity score: 0.0119605

Alignment:

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

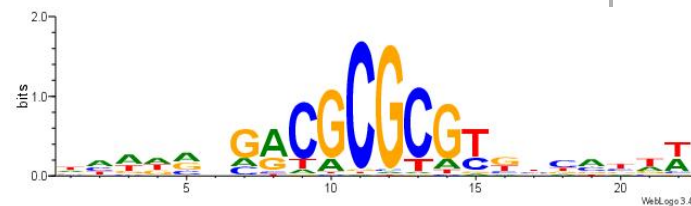
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00527](#)  
Motif name: Foxn4\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 10  
Number of overlap: 6  
Similarity score: 0.014366

Alignment:

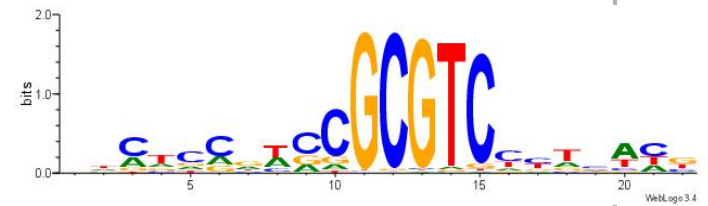
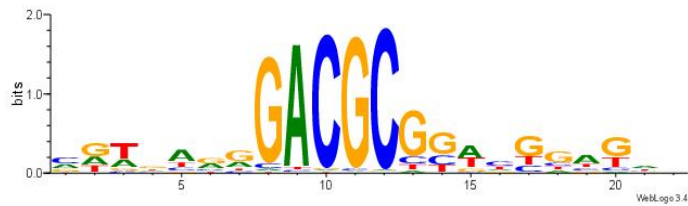
VHYTCCDWCCGCGTCMMTHWHV  
-----CGCGAC-----

Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV

Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



**Dataset #: 5      Motif ID: 47      Motif name: TFW2**

Original motif

Consensus sequence: SCGCGCGG



Reverse complement motif

Consensus sequence: CCGCGCGS



### Best Matches for Motif ID 47 (Highest to Lowest)

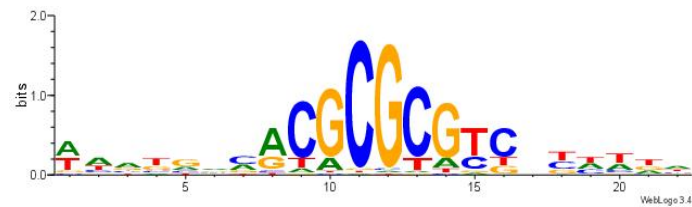
Motif ID:	<a href="#">UP00526</a>
Motif name:	Foxn1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

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

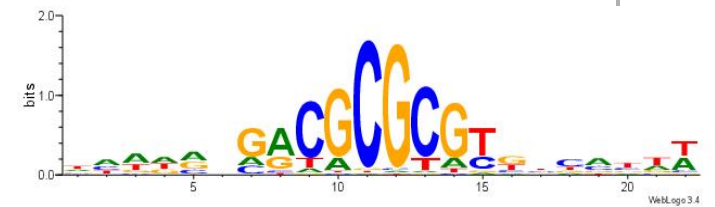
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00065](#)  
Motif name: Zfp161\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 8  
Similarity score: 0.00228411

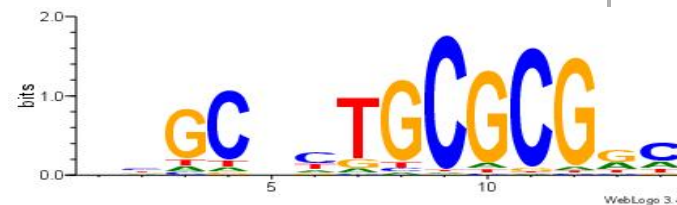
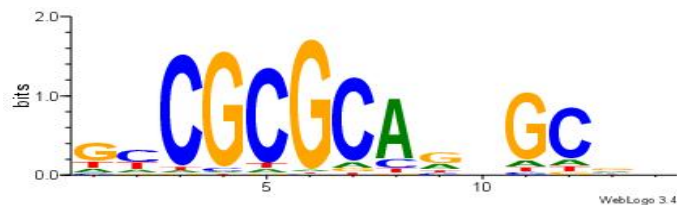
Alignment:  
VVGCVMTGCGCGKC  
-----CCGCGCGS--

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC

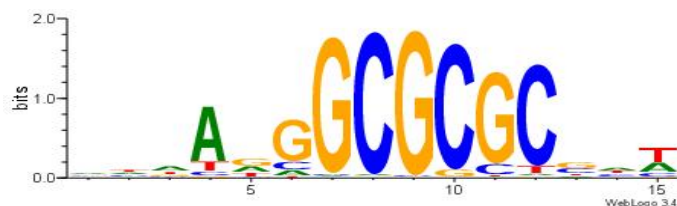


Motif ID: [UP00003](#)  
 Motif name: E2F3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00337853

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

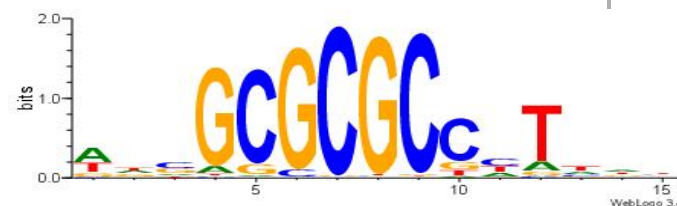
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

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



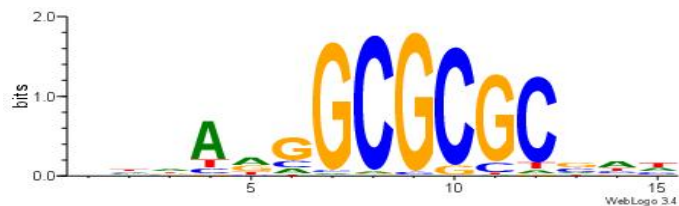
Motif ID: [UP00001](#)

Motif name: E2F2\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 7  
 Number of overlap: 8  
 Similarity score: 0.00399923

Alignment:  
 HHVGCGCGCCKTDHB  
 -CCGCGCGS-----

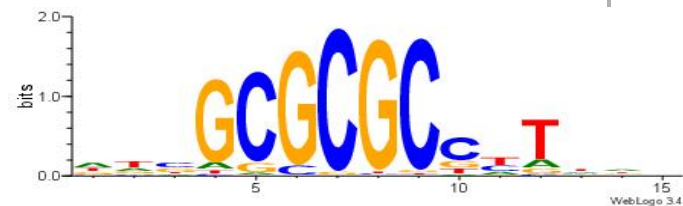
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB




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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: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 8



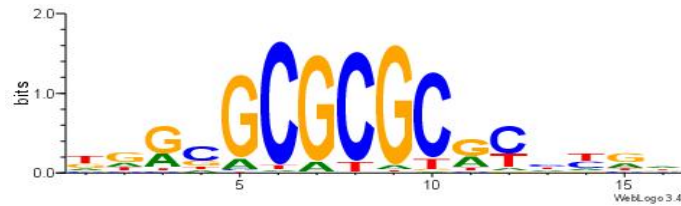
Similarity score: 0.00484534

Alignment:

DDGCGCGCGCRCHYRD  
----CCGCGCGS-----

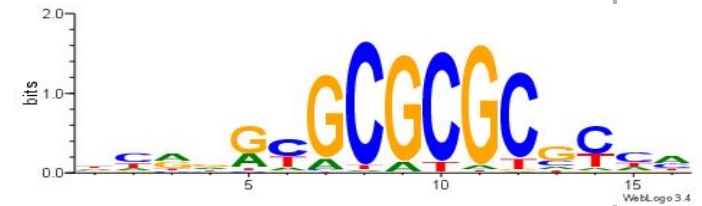
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

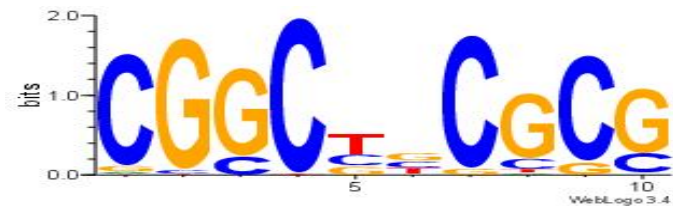
Consensus sequence: DMMDGMGCGCGCGCHD



**Dataset #: 5      Motif ID: 48      Motif name: TFW3**

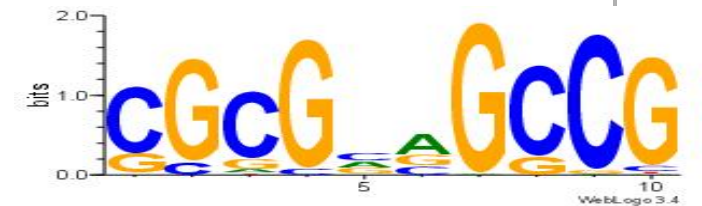
Original motif

Consensus sequence: CGGCYBCGCG



Reverse complement motif

Consensus sequence: CGGBMGCCG



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

Motif ID: [UP00400](#)  
Motif name: Zif268  
Species: Mus musculus  
Matching format of first motif: Reverse Complement

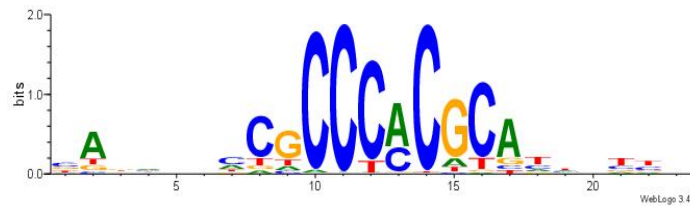
Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 7  
 Number of overlap: 10  
 Similarity score: 0.0331859

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB  
 -----CGCGBMGCCG-----

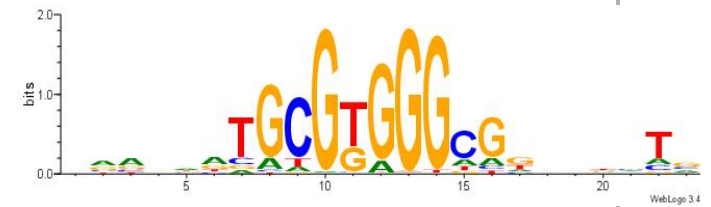
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



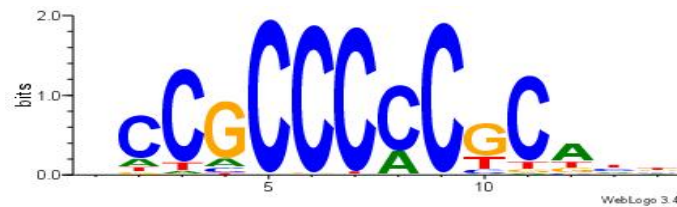
Motif ID: [UP00007](#)  
 Motif name: Egr1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 10  
 Similarity score: 0.0342114

Alignment:

HCCGCCCCCGCAHB  
--CGGCYBCGCG--

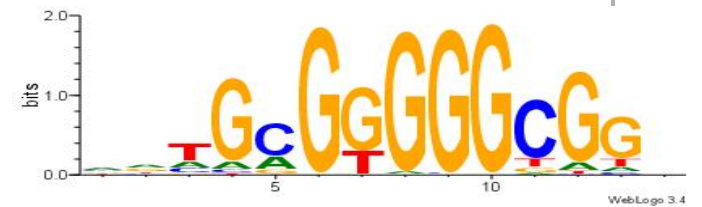
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00527](#)  
Motif name: Foxn4\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 12  
Number of overlap: 10  
Similarity score: 0.0356548

Alignment:

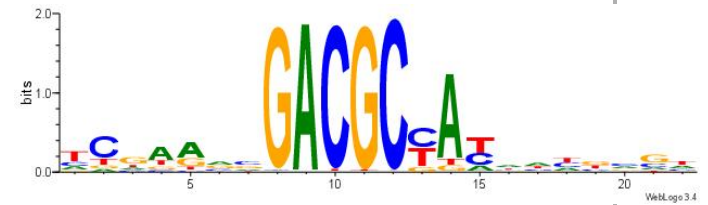
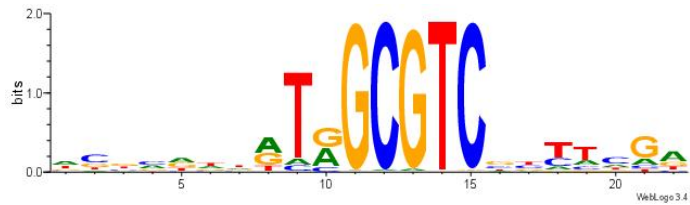
DBBVDDDRTRGCGTCBBYTHGA  
-----CGGCYBCGCG--

Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA

Reverse complement motif

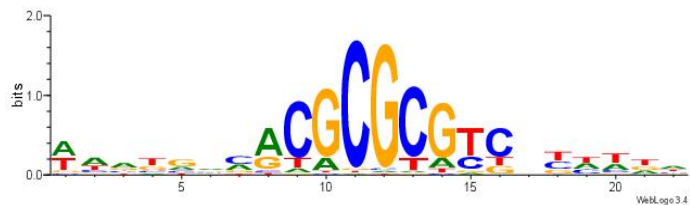
Consensus sequence: TCDAMVBGACGCMKDDDVBBDD



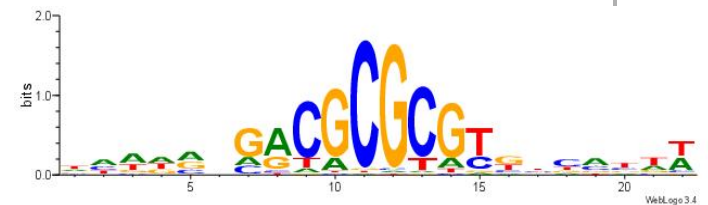
Motif ID: [UP00526](#)  
 Motif name: Foxn1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 11  
 Number of overlap: 10  
 Similarity score: 0.041792

Alignment:  
 HDWHMHGACGCGCGTRBVVBHW  
 -----CGCGBMGCCG--

Original motif  
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif  
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00065](#)

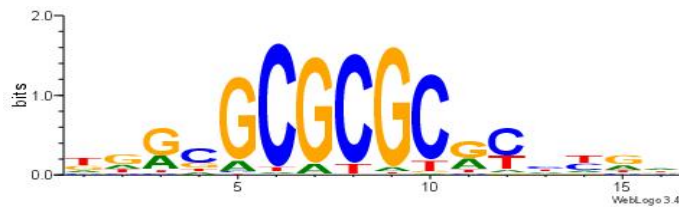
Motif name: Zfp161\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 10  
 Similarity score: 0.041904

**Alignment:**

DDGCGCGCGCRCHYRD  
 -----CGCGBMGCCG--

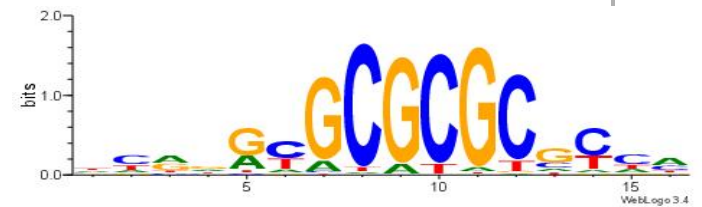
**Original motif**

Consensus sequence: DDGCGCGCGCRCHYRD



**Reverse complement motif**

Consensus sequence: DMMDMGCGCGCGCHD




---

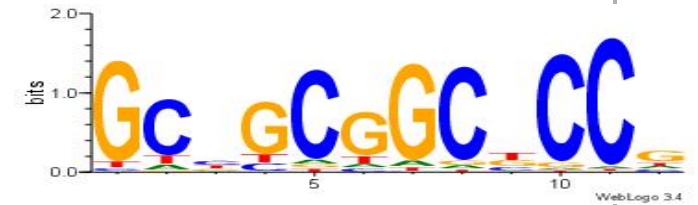
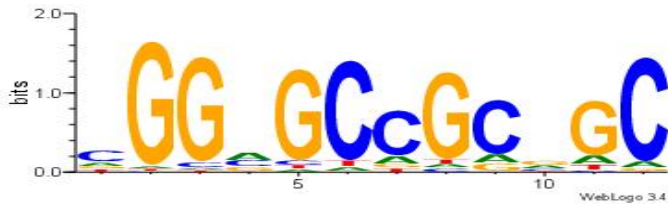
**Dataset #: 5      Motif ID: 49      Motif name: TFF1**

**Original motif**

Consensus sequence: CGGVGCCGCVGC

**Reverse complement motif**

Consensus sequence: GCVGCGGCBCCG



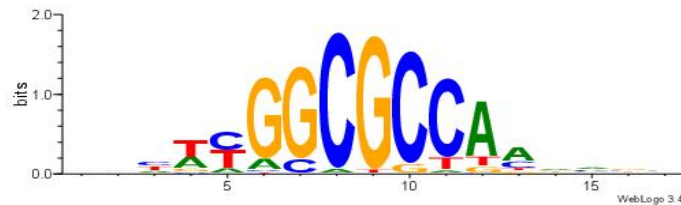
**Best Matches for Motif ID 49 (Highest to Lowest)**

Motif ID: [UP00003](#)  
 Motif name: E2F3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 2  
 Number of overlap: 12  
 Similarity score: 0.0423593

Alignment:  
 HBHWYGGCGCCAMDVB  
 ----CGGVGCCGCVGC-

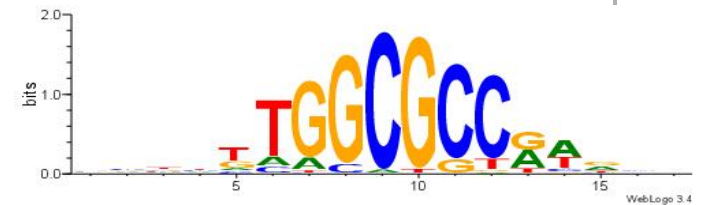
**Original motif**

Consensus sequence: HBHWYGGCGCCAMDVB



**Reverse complement motif**

Consensus sequence: BBBDYTGGCGCKWDBD



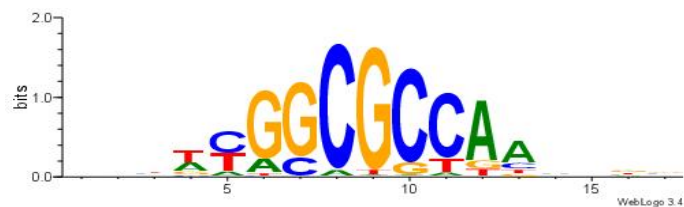
Motif ID: [UP00001](#)  
 Motif name: E2F2\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.046515

**Alignment:**

HVBWYGGCGCCAADVBB  
 ----CGGVGCCGCVGC-

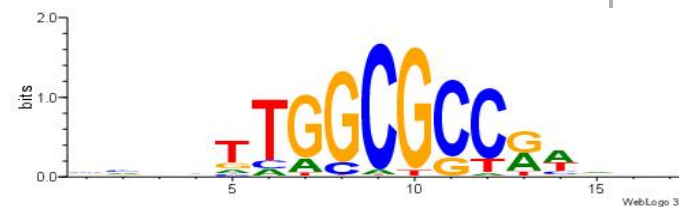
**Original motif**

Consensus sequence: HVBWYGGCGCCAADVBB



**Reverse complement motif**

Consensus sequence: BBBDDTGGCGCKWVVD



Motif ID: [UP00088](#)  
 Motif name: Plagl1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 12

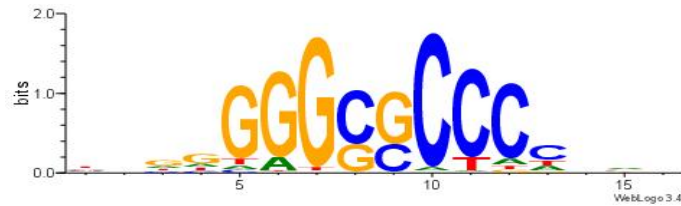
Similarity score: 0.0472704

Alignment:

VBVGGGGSSCCCCHHV  
GCVGCGGCBCCG----

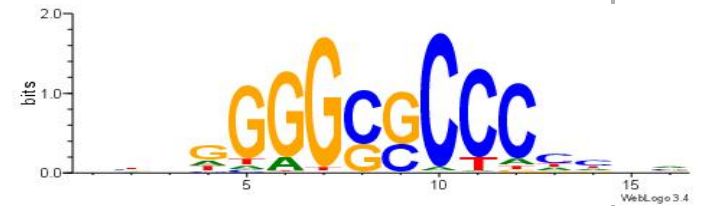
Original motif

Consensus sequence: BHDGGGGSSCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHHV



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Motif ID: [UP00099](#)  
Motif name: Ascl2\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 12  
Similarity score: 0.0476914

Alignment:

BBYVVCAGCTGCBVHHD  
----GCVGCGGCBCCG-

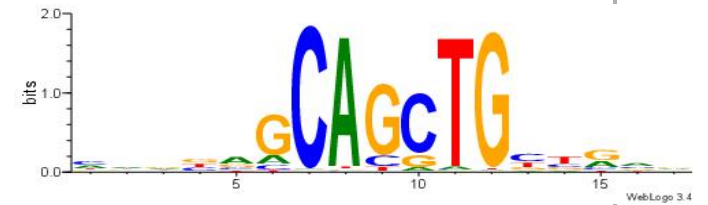
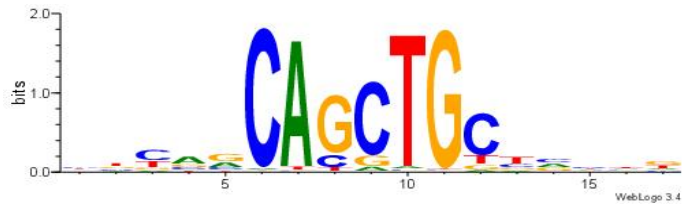
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD

Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



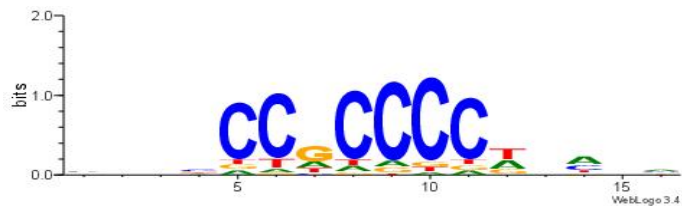


Motif ID: [UP00043](#)  
 Motif name: Bcl6b\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 12  
 Similarity score: 0.0508178

Alignment:  
 HBBCCGCCCCWHHHV  
 GCVGCGGCBCCG----

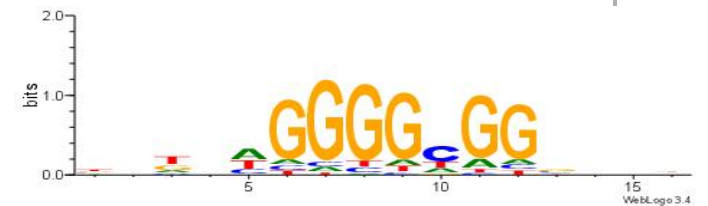
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

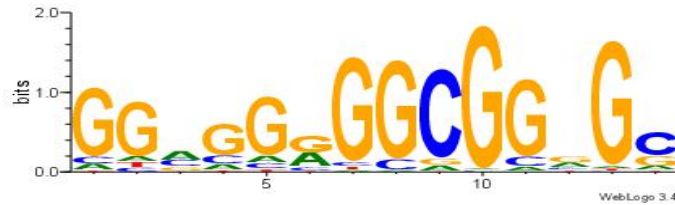
Consensus sequence: BHHHWGGGGCGBBVH



**Dataset #: 5      Motif ID: 50      Motif name: TFF11**

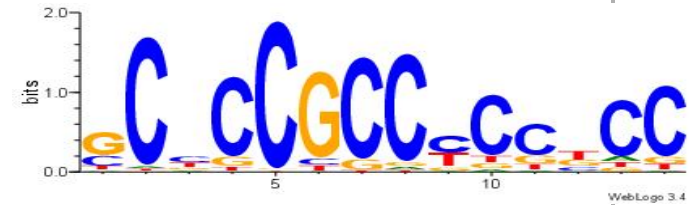
Original motif

Consensus sequence: GGMGGRGGCGGVGC



Reverse complement motif

Consensus sequence: GCVCCGCCMCCYCC



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

Motif ID: [UP00000](#)  
Motif name: Smad3\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 14  
Similarity score: 0.0294317

Alignment:

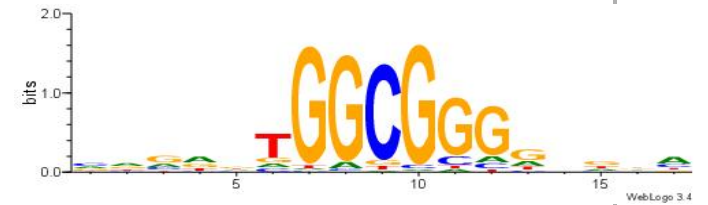
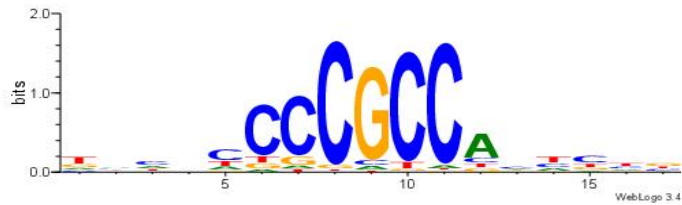
```
DHHBCCCGCCAHHBHB  
---GCVCCGCCMCCYCC
```

Original motif

Consensus sequence: DHHBCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

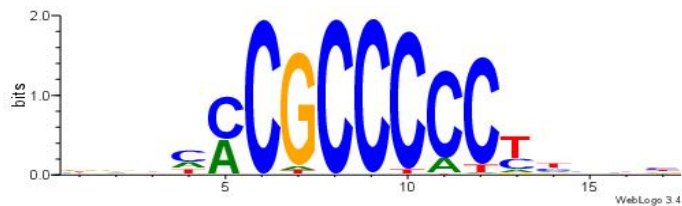


Motif ID: [UP00002](#)  
 Motif name: Sp4\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14  
 Similarity score: 0.0308559

Alignment:  
 BDHHC G C C C C C T H V B B  
 - G C V C C G C C M C C Y C C - -

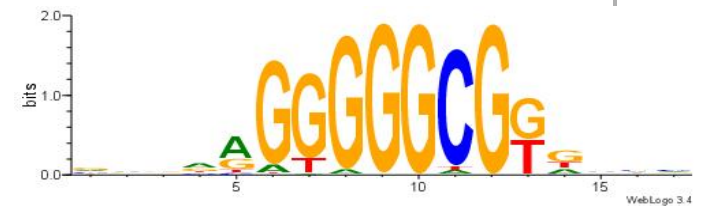
Original motif

Consensus sequence: BDHHC 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



Motif ID: [UP00033](#)

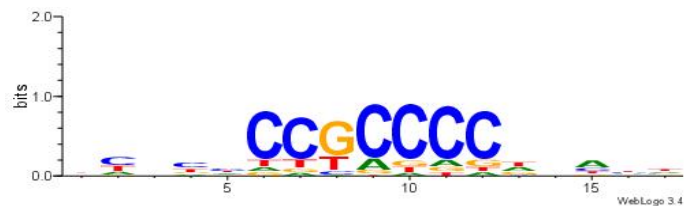
Motif name: Zfp410\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 14  
 Similarity score: 0.0379479

**Alignment:**

BHHBHCCGCCCCDHHHH  
 --GCVCCGCCMCCYCC--

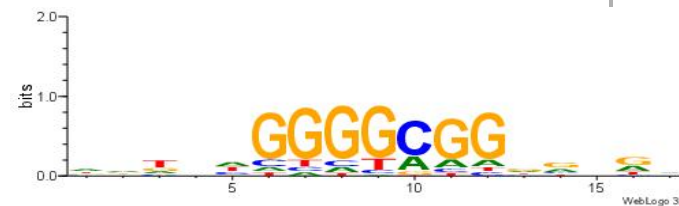
**Original motif**

Consensus sequence: BHHBHCCGCCCCDHHHH



**Reverse complement motif**

Consensus sequence: HHHHDGGGGCGGDBHDV




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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: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 14

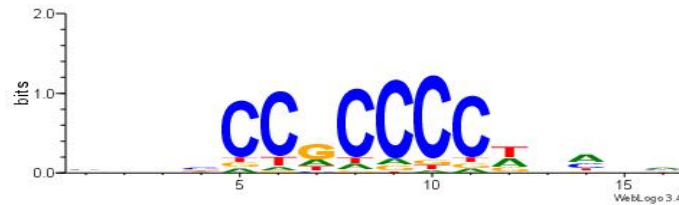
Similarity score: 0.0383359

Alignment:

HBBBCCGCCCCWHHHV  
-GCVCCGCCMCCYCC-

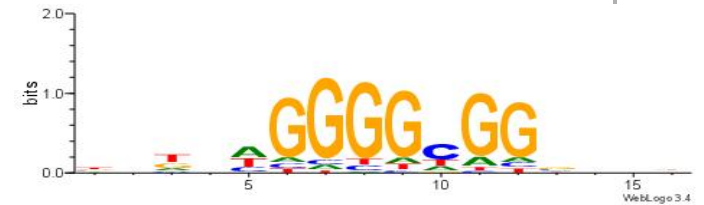
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGBBVH



Motif ID: [UP00021](#)  
Motif name: Zfp281\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 14  
Similarity score: 0.0388307

Alignment:

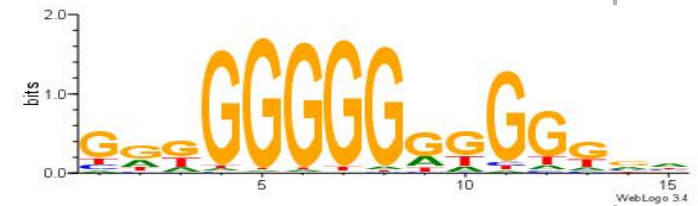
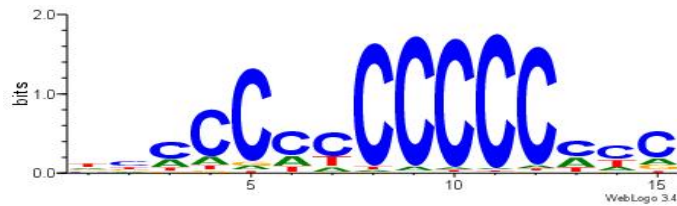
GKRGGGGGGGGGGBD  
GGMGRRGGCGGVGC-

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

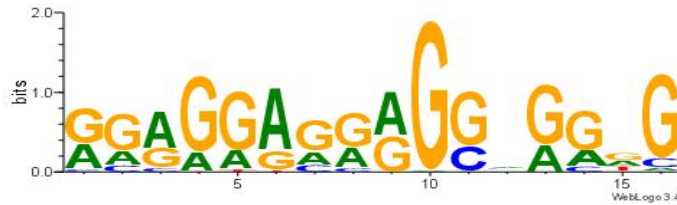
Consensus sequence: GKRGGGGGGGGGGBD



**Dataset #: 5      Motif ID: 51      Motif name: TFM2**

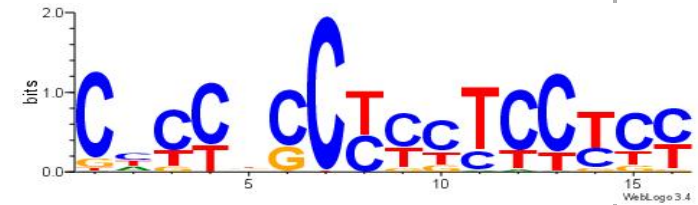
Original motif

Consensus sequence: RGRGGAGRRGGHGGDG



Reverse complement motif

Consensus sequence: CHCCBCKMCTCCKCM



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

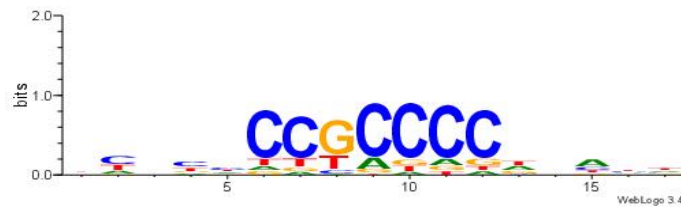
Motif ID:	<a href="#">UP00033</a>
Motif name:	Zfp410_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0508679

Alignment:

BHHBHCCGCCCCDHHHH  
CHCCBCKMCTCCKCM-

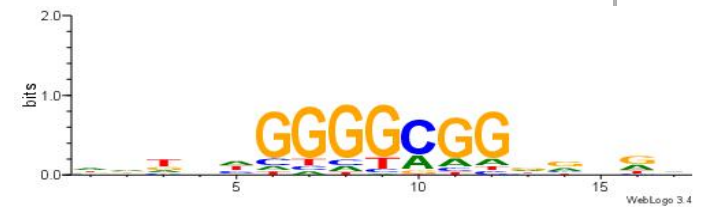
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00007](#)  
Motif name: Egr1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1  
Number of overlap: 16  
Similarity score: 0.0564739

Alignment:

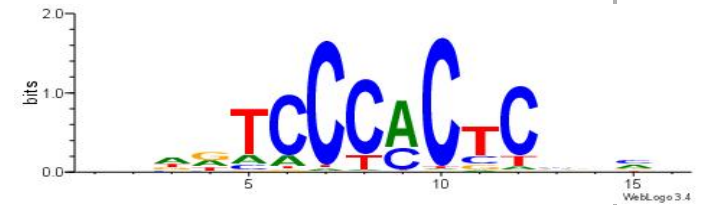
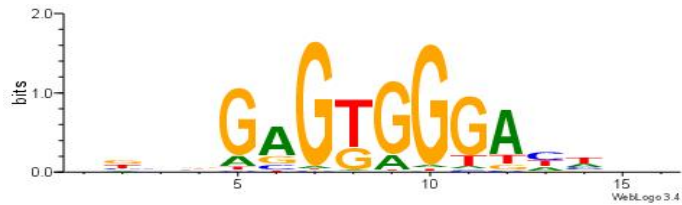
BBHBGAGTGGGAHHDB  
RGRGGAGRRGGHGGDG

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

Consensus sequence: BHHDTCCTACTCBDBV

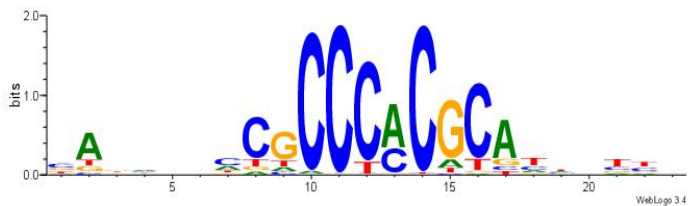


Motif ID: [UP00400](#)  
 Motif name: Zif268  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 4  
 Number of overlap: 16  
 Similarity score: 0.0588056

Alignment:  
 BADHBDHCGCCCMCGCAHHDBBV  
 ----CHCCBCKMCTCCKCM----

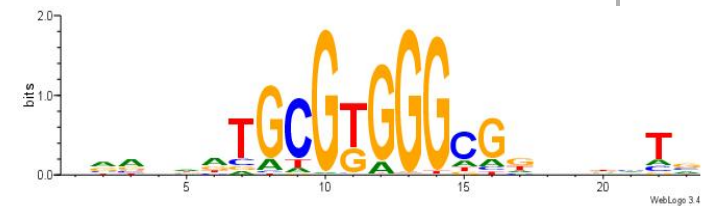
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHSVHHTB



Motif ID: [UP00539](#)



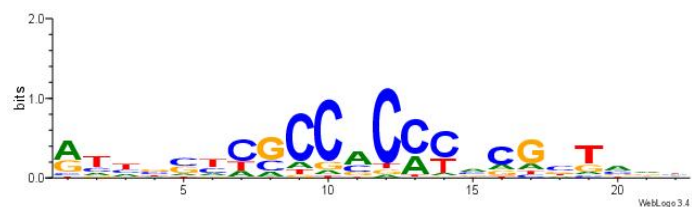
Motif name: Gli2\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 4  
 Number of overlap: 16  
 Similarity score: 0.0589361

**Alignment:**

RTHBSYCGCCMCMYVCGBTVDH  
 ---CHCCBCKMCTCCKCM---

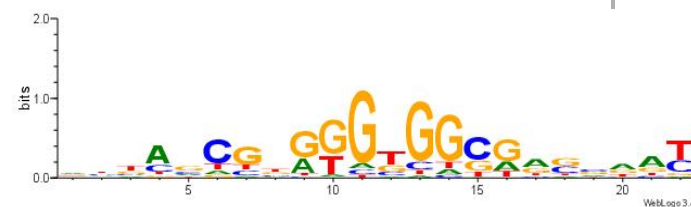
**Original motif**

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



**Reverse complement motif**

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK




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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: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 16

Similarity score: 0.0599837

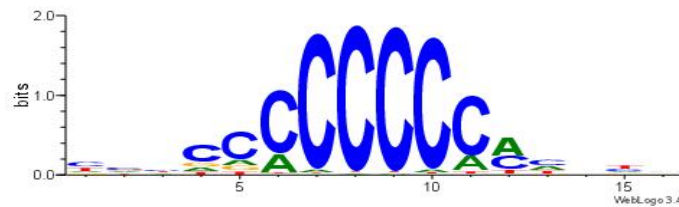
Alignment:

BHHDYGGGGGGGGBVD

RGRGGAGRRGGHGGDG

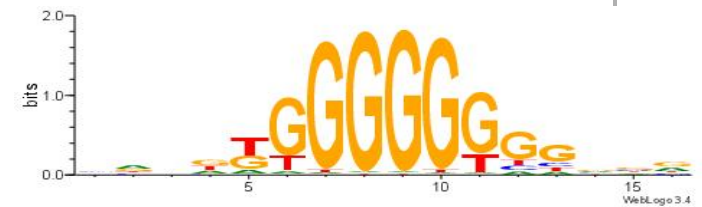
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

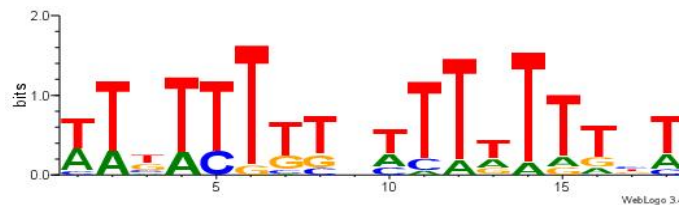
Consensus sequence: BHHDYGGGGGGGGBVD



**Dataset #: 5      Motif ID: 52      Motif name: TFM1**

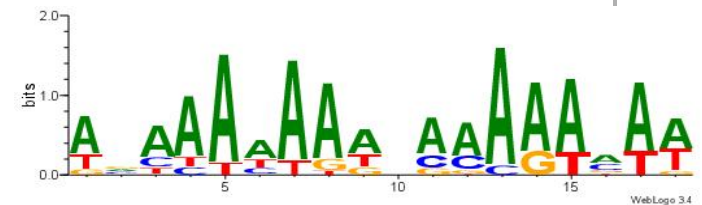
Original motif

Consensus sequence: WTKTTTTTHWTTTTTBT



Reverse complement motif

Consensus sequence: ABAAAAAWHAAAAARAW



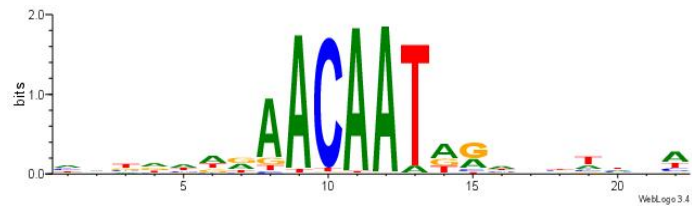
### Best Matches for Motif ID 52 (Highest to Lowest)

Motif ID: [UP00034](#)  
Motif name: Sox7\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement

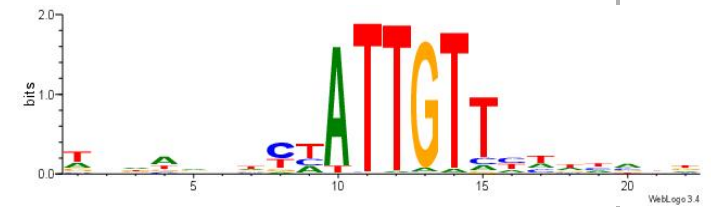
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 5  
Number of overlap: 18  
Similarity score: 0.0406097

Alignment:  
HHBDHDDAACAATDRHHHHHBW  
----ABAAAAAAWHAAAAARAW

Original motif  
Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif  
Consensus sequence: WBHHHHMDATTGTTHDHDVHH



---

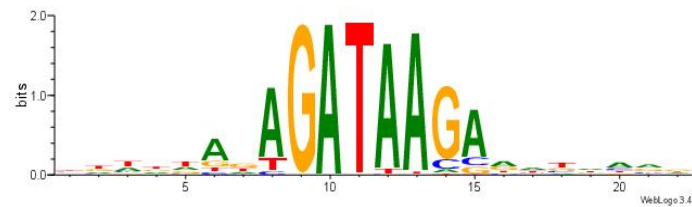
Motif ID: [UP00032](#)  
Motif name: Gata3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 18  
Similarity score: 0.0549239

Alignment:

HBHDVHDTCTTATCTHTDDHDV  
---WTKTTTTTHWTTTTTBT-

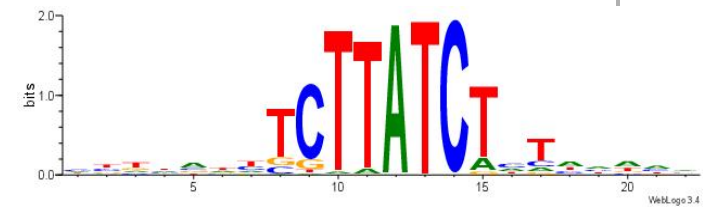
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00034](#)  
Motif name: Sox7\_secondary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 2  
Number of overlap: 18  
Similarity score: 0.0554316

Alignment:

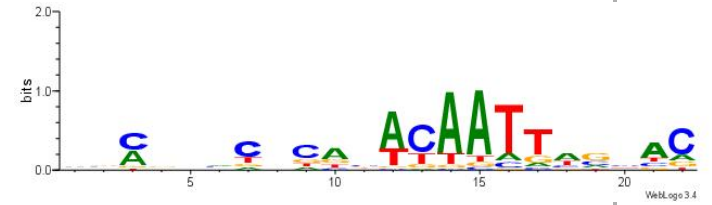
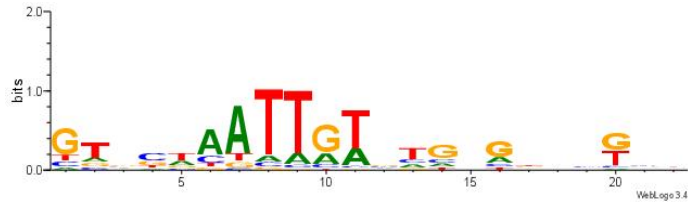
VVYDDDCHCAVACAATTDBVAC  
---ABAAAAAAWHAAAAARAW-

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

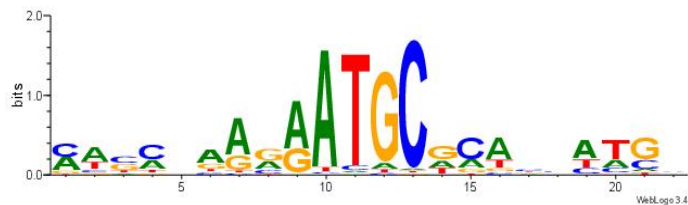
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



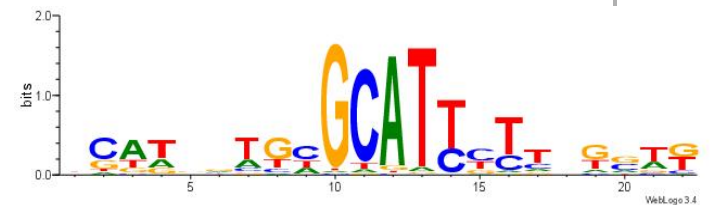
Motif ID: [UP00528](#)  
 Motif name: Foxm1\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 18  
 Similarity score: 0.0582891

Alignment:  
 MWSMBAARRATGCD CABHATGD  
 -ABAAAAA WHAAAAA RAW---

Original motif  
 Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif  
 Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID: [UP00032](#)

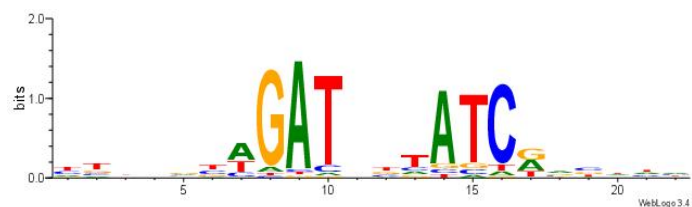
Motif name: Gata3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 18  
 Similarity score: 0.0594078

Alignment:

HBHDVBWGATHBTATCRVBHHH  
 --ABAAAAAAWHAAAAARAW--

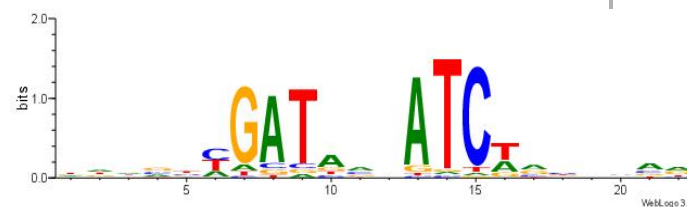
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVVH



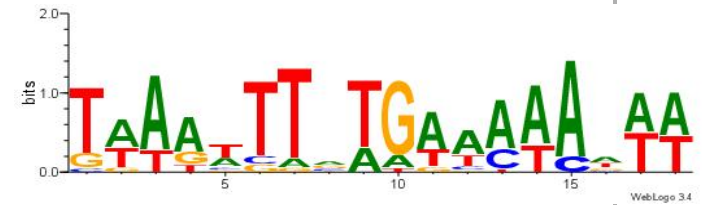
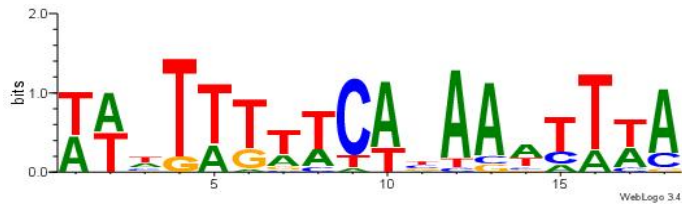
**Dataset #: 5      Motif ID: 53      Motif name: TFM3**

Original motif

Consensus sequence: WWHTTTTTTCABAAWTTWA

Reverse complement motif

Consensus sequence: TWAAWTTVTGAAAAHWW



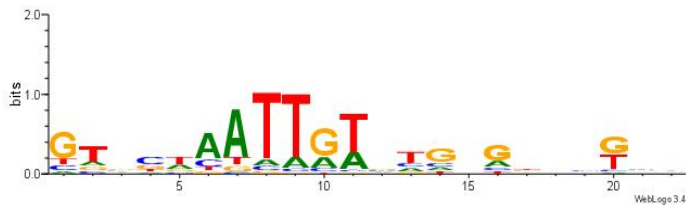
**Best Matches for Motif ID 53 (Highest to Lowest)**

Motif ID: [UP00034](#)  
 Motif name: Sox7\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 5  
 Number of overlap: 18  
 Similarity score: 0.0560226

Alignment:  
 VVYDDDCHCAVACAATTDBVAC  
 WWHTTTTTTCABAAWTTWA----

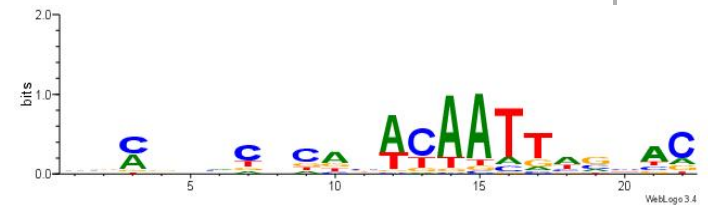
**Original motif**

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



**Reverse complement motif**

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



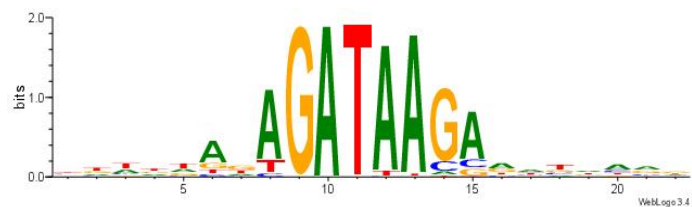
Motif ID: [UP00032](#)  
Motif name: Gata3\_primary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Forward  
Position number: 4  
Number of overlap: 18  
Similarity score: 0.065044

Alignment:

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

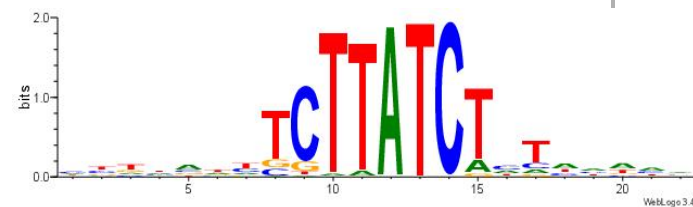
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



---

Motif ID: [UP00032](#)  
Motif name: Gata3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 1



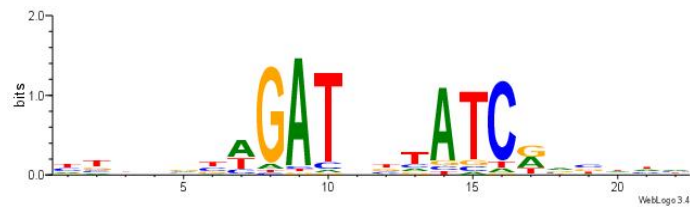
Number of overlap: 18  
Similarity score: 0.0697095

Alignment:

HBHDVBWGATHBTATCRVBHHH  
----WWHTTTTTTCABAAWTTWA

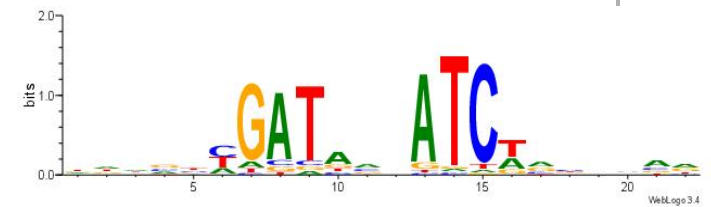
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Motif ID: [UP00034](#)  
Motif name: Sox7\_primary  
Species: Mus musculus  
Matching format of first motif: Reverse Complement  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 1  
Number of overlap: 18  
Similarity score: 0.071426

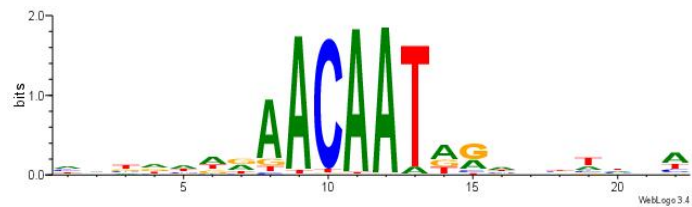
Alignment:

WBHHHHHMDATTGTTHDHDVHH  
TWAAWTTVTGAAAAAHWW----

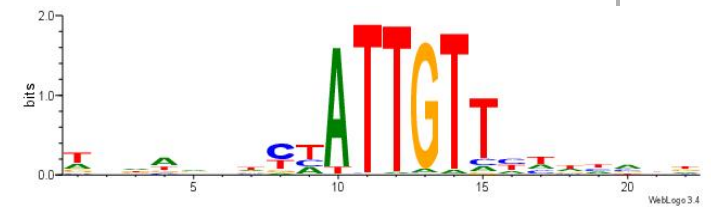
Original motif

Reverse complement motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



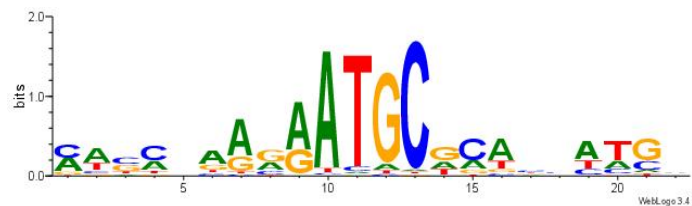
Motif ID: [UP00528](#)  
Motif name: Foxm1\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 18  
Similarity score: 0.0731314

Alignment:

```
DCATDBTGHGCATKMTTBRSWR  
--WWHTTTTTTCABAAWTTWA--
```

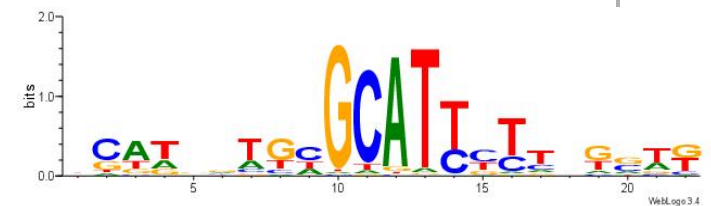
Original motif

Consensus sequence: MWSMBAARRATGDCABHATGD



Reverse complement motif

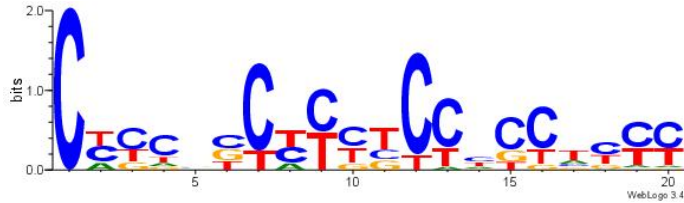
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



**Dataset #: 5**      **Motif ID: 54**      **Motif name: TFM12**

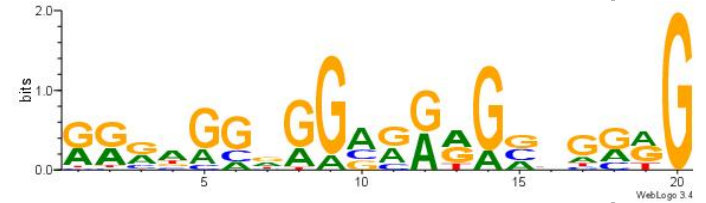
Original motif

Consensus sequence: CYYCBBCYYYTCCHCCTYYY



Reverse complement motif

Consensus sequence: KKKAGGDGGAKKMGBBGKMG



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

Motif ID:	<a href="#">UP00539</a>
Motif name:	Gli2_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0528574

Alignment:

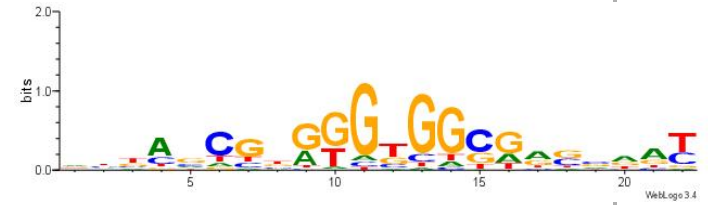
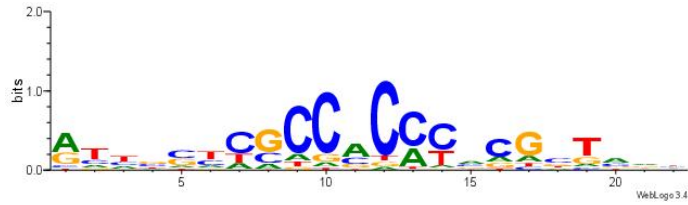
```
HDBABCGBKRGYGGCGMSBHAK  
--KKKAGGDGGAKKMGBBGKMG
```

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

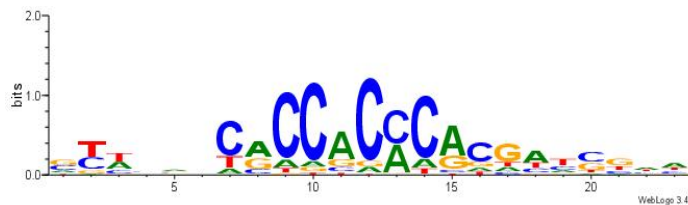
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



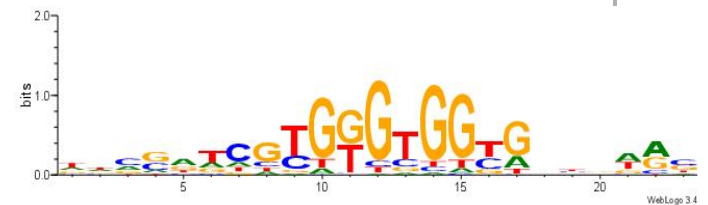
Motif ID: [UP00540](#)  
 Motif name: Gli3\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 20  
 Similarity score: 0.0585594

Alignment:  
 VYWVVHCRCCACMCACGAHSBHH  
 CYYCBBCYYYTCCHCCTYYY---

Original motif  
 Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif  
 Consensus sequence: HHBSHTCGTGRGTGGKGDDBVWMV



Motif ID: [UP00538](#)

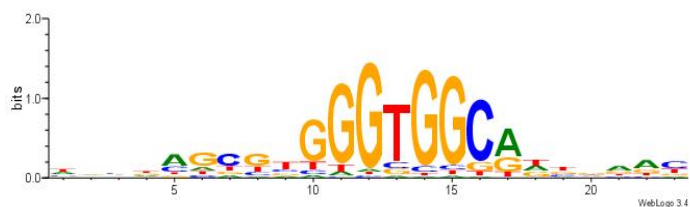
Motif name: Gli1\_v016060\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 20  
 Similarity score: 0.0625384

**Alignment:**

HVBDAGCGBGGGTGGCRDBDDDB  
 -KKKAGGDGGAKKMGBBGKMG--

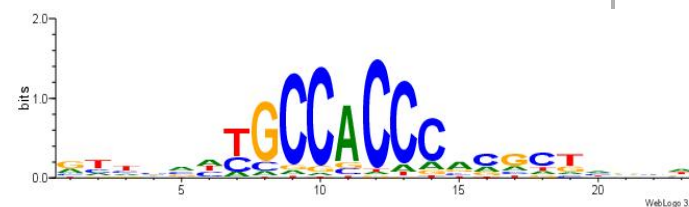
**Original motif**

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



**Reverse complement motif**

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH




---

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

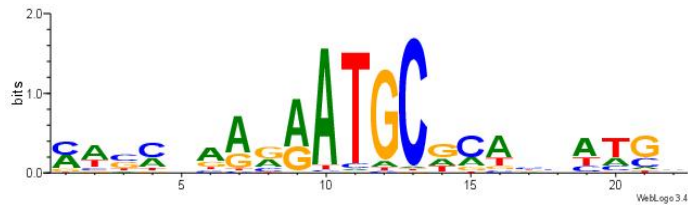
Similarity score: 0.0639685

Alignment:

DCATDBTGHGCATKMTTBRSWR  
--KKKAGGDGGAKKMGBBGKMG

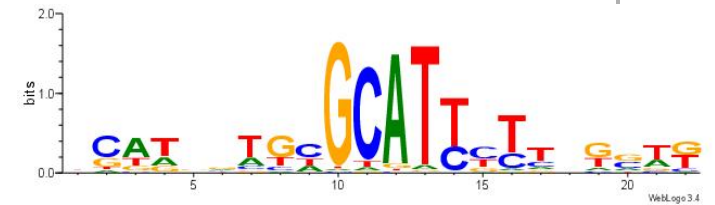
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID: [UP00539](#)  
Motif name: Gli2\_v015681\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Backward  
Position number: 3  
Number of overlap: 20  
Similarity score: 0.0648037

Alignment:

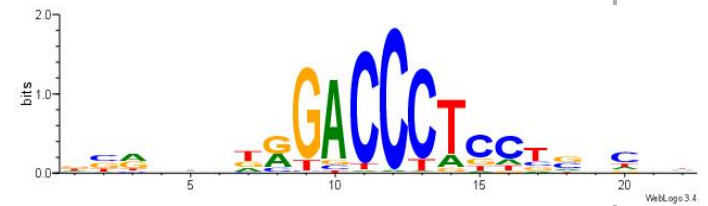
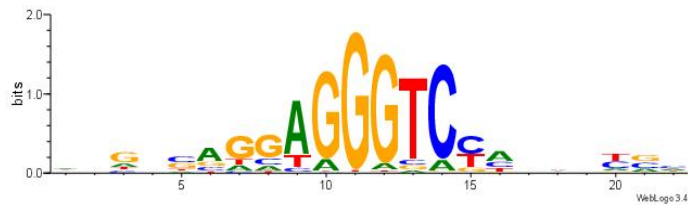
DVMHHDHKGACCCTCCTSVCBH  
CYVCBBCYYYTCCHCCTYYY--

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

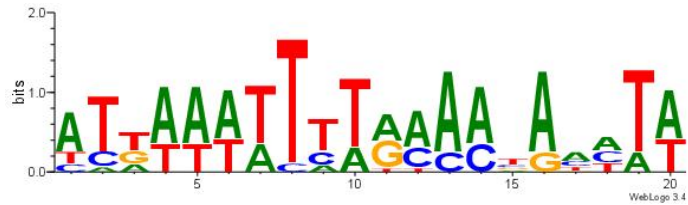
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



**Dataset #: 5      Motif ID: 55      Motif name: TFM13**

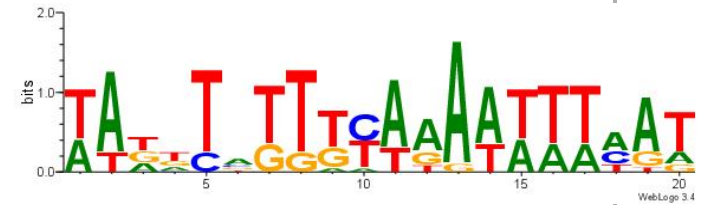
Original motif

Consensus sequence: ATKAAWTTTTRMAABAHTW



Reverse complement motif

Consensus sequence: WAHHTVTTYKAAAATTRAT



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

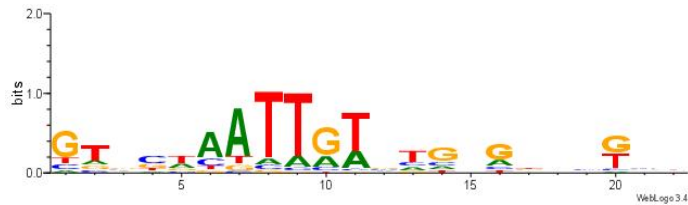
Motif ID:	<a href="#">UP00034</a>
Motif name:	Sox7_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	20
Similarity score:	0.0556257

Alignment:

VVYDDDCHCAVACAATTDBVAC  
-WAHHTVTTYKAAAATTRAT-

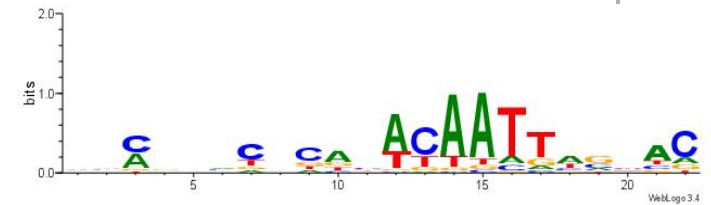
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Motif ID: [UP00032](#)  
Motif name: Gata3\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Reverse Complement  
Direction: Forward  
Position number: 2  
Number of overlap: 20  
Similarity score: 0.0642682

Alignment:

HHHBBMGATAVHATCWVVDHVH  
-ATKAAWTTTTTRMAABAHTW-

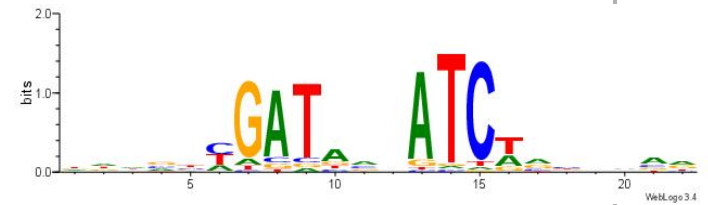
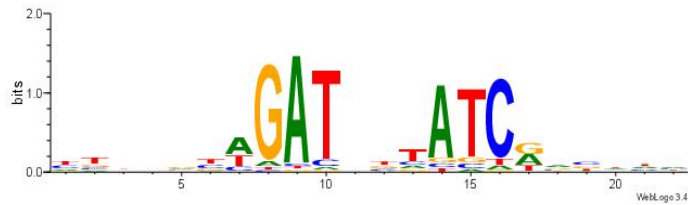
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH

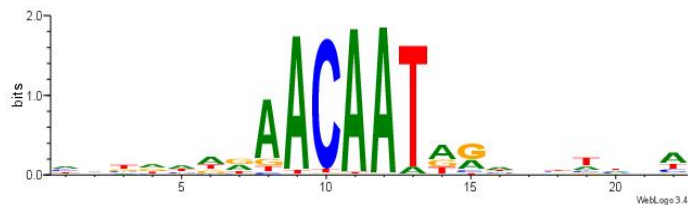




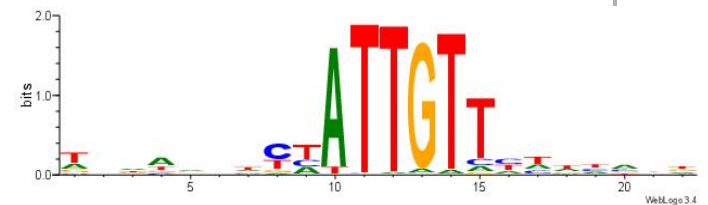
Motif ID: [UP00034](#)  
 Motif name: Sox7\_primary  
 Species: Mus musculus  
 Matching format of first motif: Reverse Complement  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 3  
 Number of overlap: 20  
 Similarity score: 0.064945

Alignment:  
 WBHHHHHMDATTGTTDHDVHH  
 --WAHHTVTTYKAAAATTRAT

Original motif  
 Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif  
 Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00032](#)

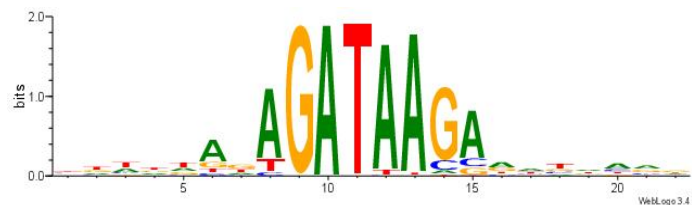
Motif name: Gata3\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 20  
 Similarity score: 0.0651681

**Alignment:**

HBHDVHDTCTTATCTHTDDHDV  
 ATKAAWTTTTRMAABAHHTW--

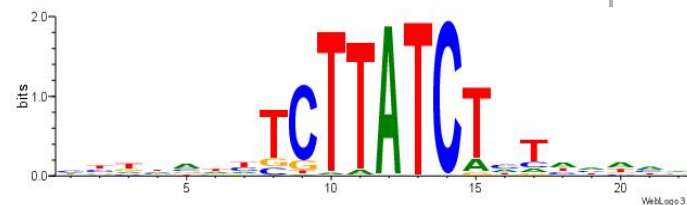
**Original motif**

Consensus sequence: BDHDDADAGATAAGADHBDHVD



**Reverse complement motif**

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV




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Motif ID: [UP00098](#)  
 Motif name: Rfx3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 20

Similarity score:

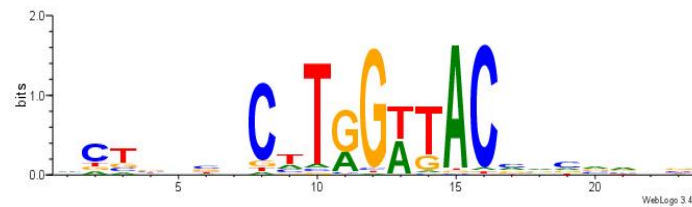
0.0670788

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB  
-ATKAAWTTTTTRMAABAHTW--

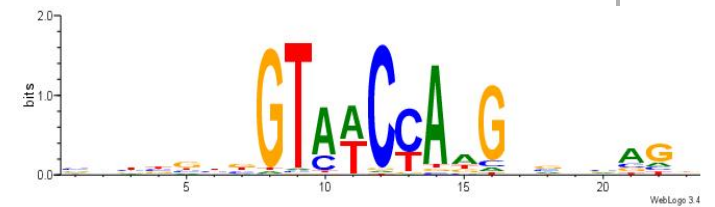
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVWWWVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



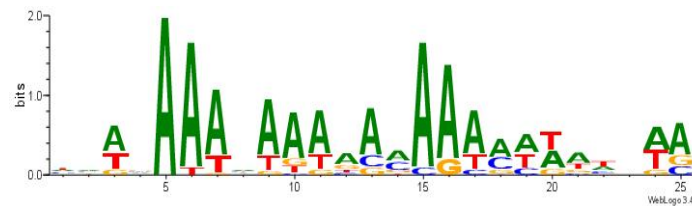
**Dataset #: 5**

**Motif ID: 56**

**Motif name: TFM11**

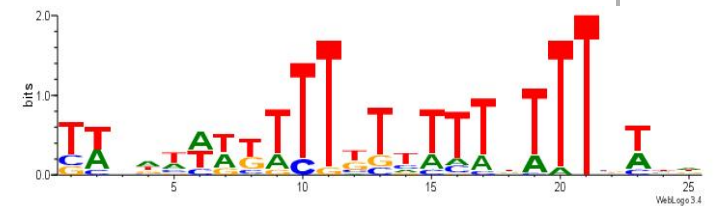
Original motif

Consensus sequence: HDWVAAAHAAAAAMAAAMWWWHBWA



Reverse complement motif

Consensus sequence: TWVHWWYTTTTYTTTTHTTTTWW



### Best Matches for Motif ID 56 (Highest to Lowest)

Motif ID:	<a href="#">UP00098</a>
Motif name:	Rfx3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

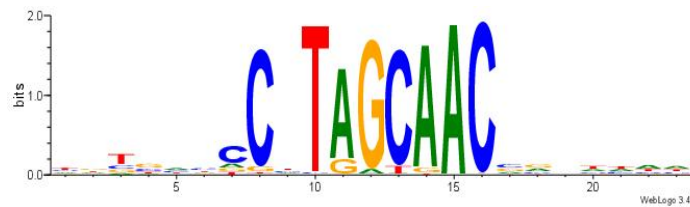
Direction: Backward  
Position number: 2  
Number of overlap: 23  
Similarity score: 0.0760601

Alignment:

```
--HDTBHHCCHTAGCAACVVDHHHH  
HDWVAAAHA AAAA MAAA MWWWHBWA--
```

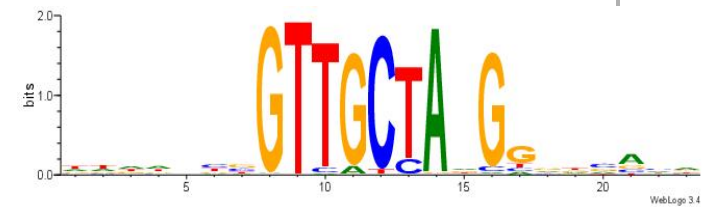
Original motif

Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH



Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



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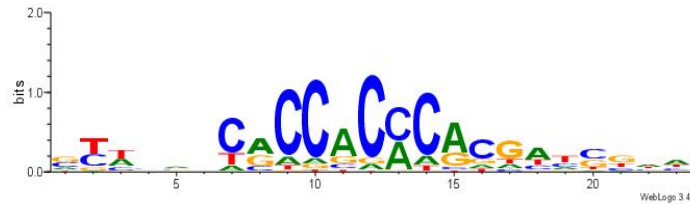
Motif ID: [UP00540](#)  
Motif name: Gli3\_v016060\_secondary  
Species: Mus musculus  
Matching format of first motif: Original Motif  
Matching format of second motif: Original Motif  
Direction: Backward  
Position number: 3  
Number of overlap: 23  
Similarity score: 0.0803516

Alignment:

```
--VYWVVHCRCCACMCACGAHSBHH  
HDWVAAAHA AAAA MAAA MWWWHBWA--
```

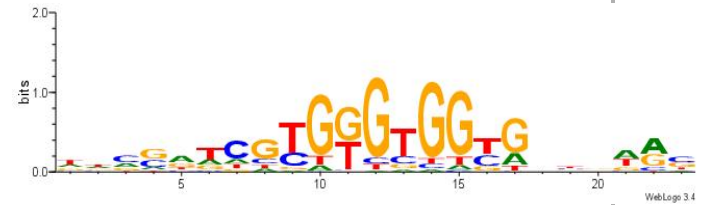
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGK<sup>+</sup>GDBVWMMV



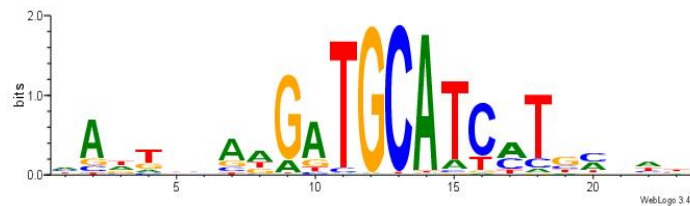
Motif ID: [UP00528](#)  
 Motif name: Foxm1\_primary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Forward  
 Position number: 2  
 Number of overlap: 23  
 Similarity score: 0.0808735

Alignment:

HADTBVADGATGCATCMTGMVHB--  
 -HDWVAAAHAAAAAAMAAAMWWWHBWA

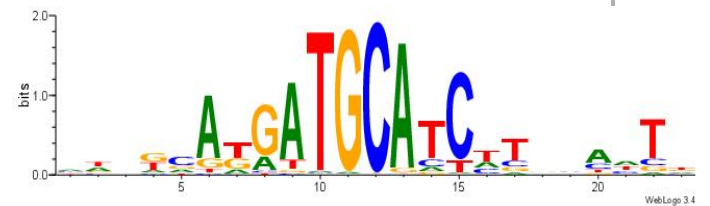
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Motif ID: [UP00538](#)  
 Motif name: Gli1\_v015681\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Original Motif  
 Direction: Backward  
 Position number: 3  
 Number of overlap: 23  
 Similarity score: 0.0812213

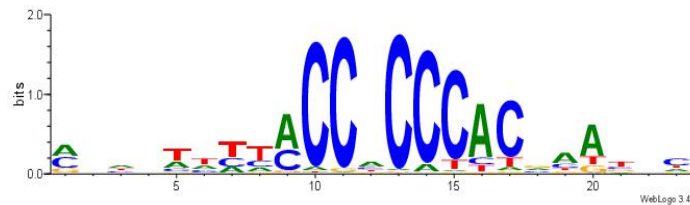
Alignment:

```

--MHHHWHYTMCCCHCCCACVAABVH
HDWVAAAHAAMAAAMWWWHBWA--
  
```

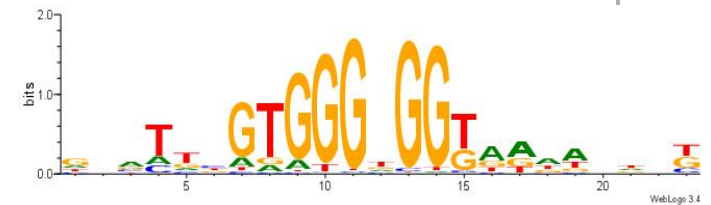
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00098](#)  
 Motif name: Rfx3\_secondary  
 Species: Mus musculus  
 Matching format of first motif: Original Motif  
 Matching format of second motif: Reverse Complement  
 Direction: Forward  
 Position number: 1  
 Number of overlap: 23

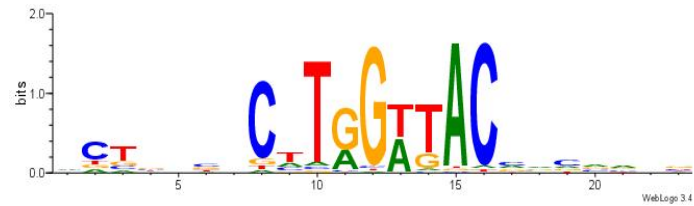
Similarity score: 0.0813067

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB--  
HDWVAAAHAAAAAMAAAMWWWHBWA

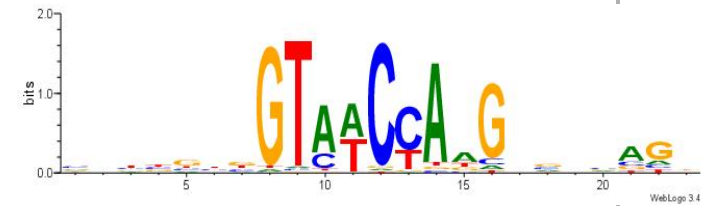
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVWWWVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



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Runtime: 347.754 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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