



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)

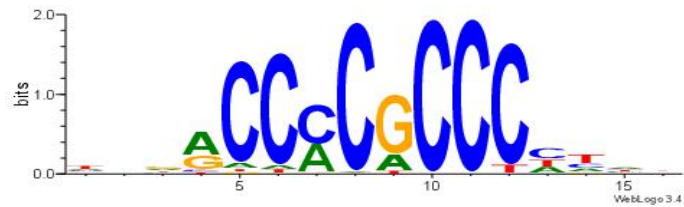
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

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

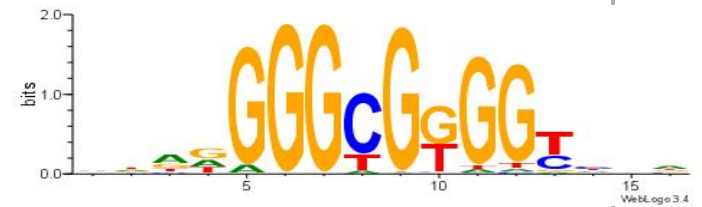
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



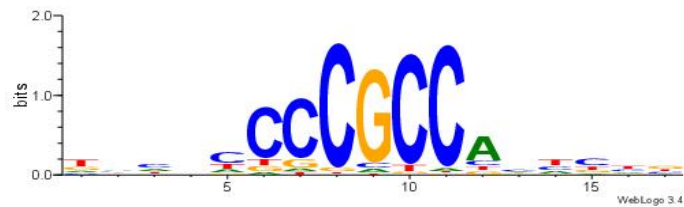
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00617043

Alignment:

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

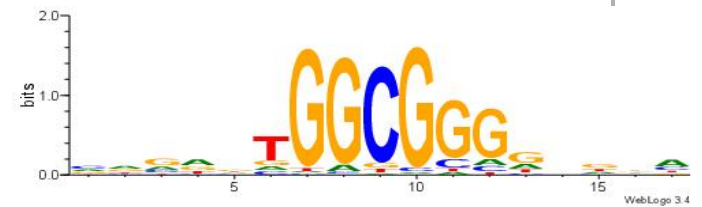
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



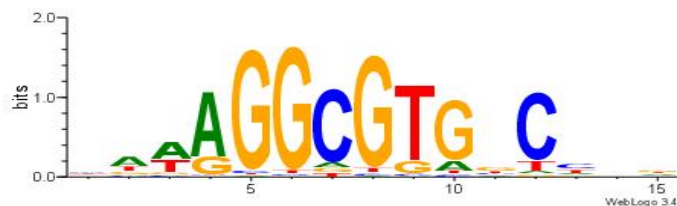
Motif ID: [UP00002](#)
Motif name: Sp4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0145996

Alignment:

BDWAGGCGTGBCHHD
----GGCGGGC---

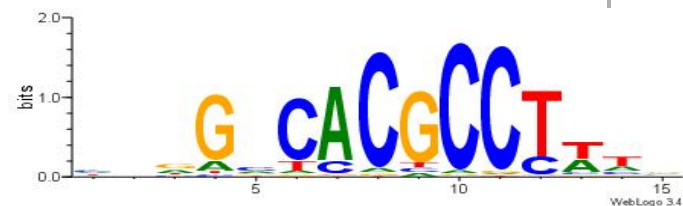
Original motif

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

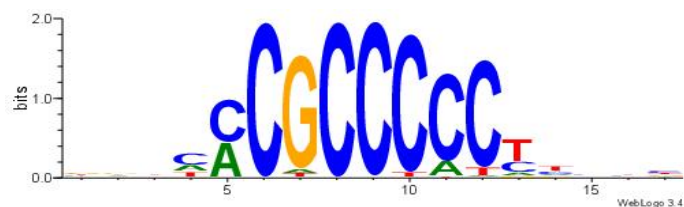
Position number: 2
Number of overlap: 8
Similarity score: 0.0233506

Alignment:

BDHHMCGCCCCCTHVBB
-GCCCCGCC-----

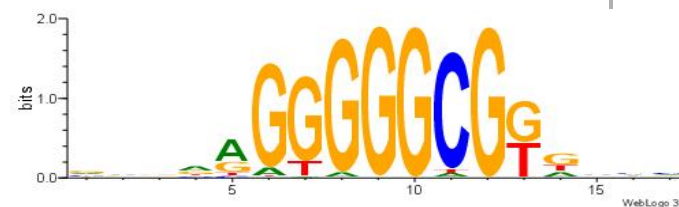
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



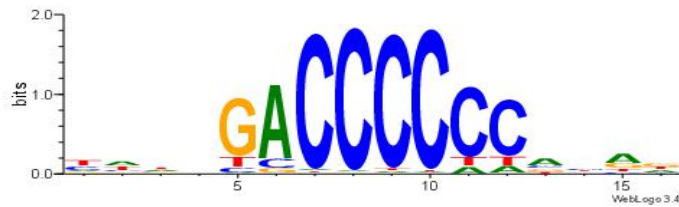
Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0291232

Alignment:

HHHVGACCCCCCVBRD
----GCCCCGCC----

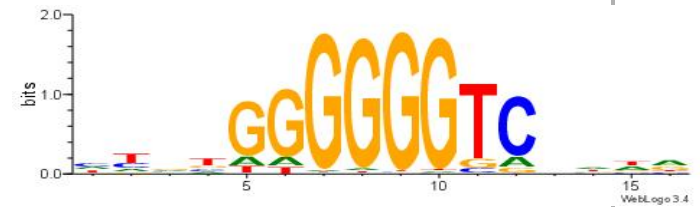
Original motif

Consensus sequence: HHHVGACCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCVHHH



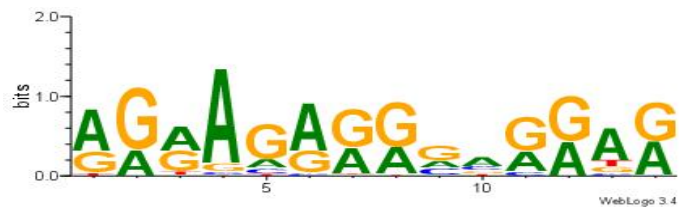
Dataset #: 2

Motif ID: 2

Motif name: Motif 2

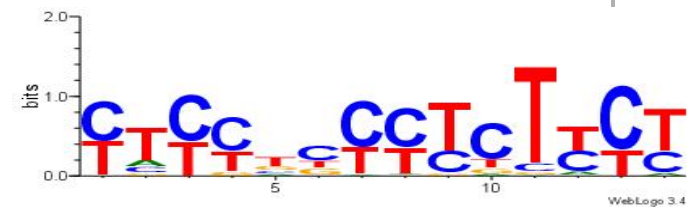
Original motif

Consensus sequence: RGRAGARRGARRAR



Reverse complement motif

Consensus sequence: MTMMTCMMTCTKCK



Best Matches for Motif ID 2 (Highest to Lowest)

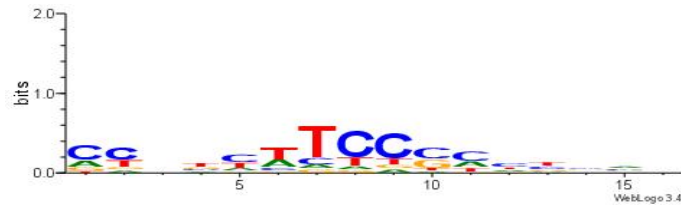
Motif ID:	UP00013
Motif name:	Gabpa_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0378622

Alignment:

DBVVDRSGGAWKVHKG
RGRAGARRGARRAR--

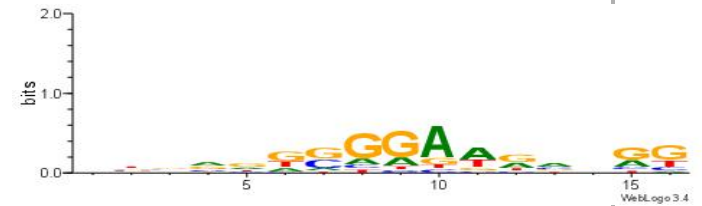
Original motif

Consensus sequence: CYDBYWTCSSMHBVVH



Reverse complement motif

Consensus sequence: DBVVDRSGGAWKVHKG



Motif ID: [UP00101](#)
Motif name: Sox12_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.038148

Alignment:

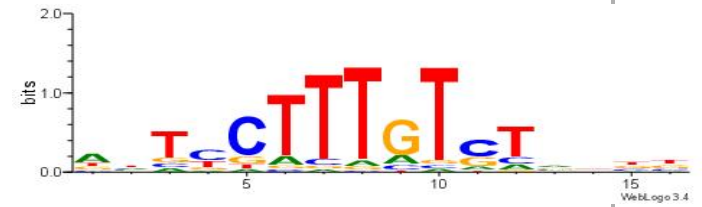
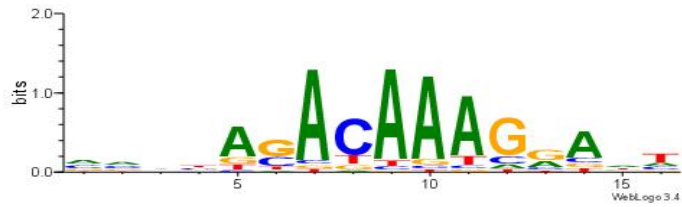
VVDBASACAAAGRADH
-RGRAGARRGARRAR-

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB

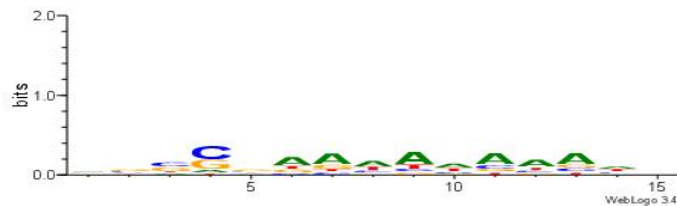


Motif ID: [UP00058](#)
 Motif name: Tcf3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.039618

Alignment:
 DVBSBDAHAHAHAHH
 RGRAGARRGARRAR-

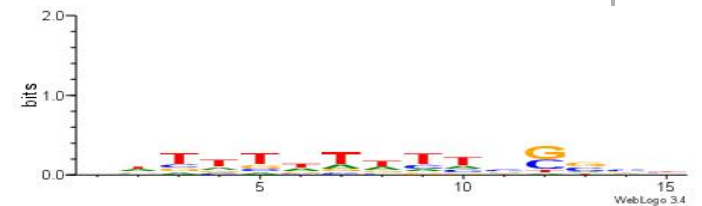
Original motif

Consensus sequence: DVBSBDAHAHAHAHH



Reverse complement motif

Consensus sequence: HHTHTHTHTDBSBVD



Motif ID: [UP00528](#)

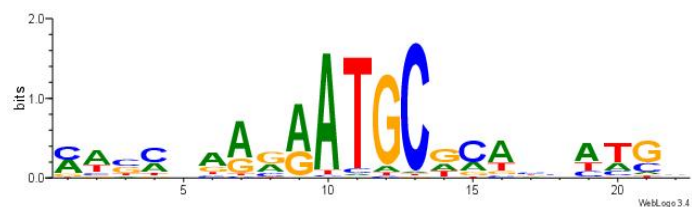
Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0407385

Alignment:

MWSMBAARRATGCD CABHATGD
 MTMMTCMMTCTKCK-----

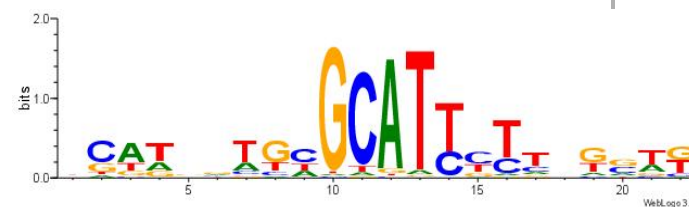
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

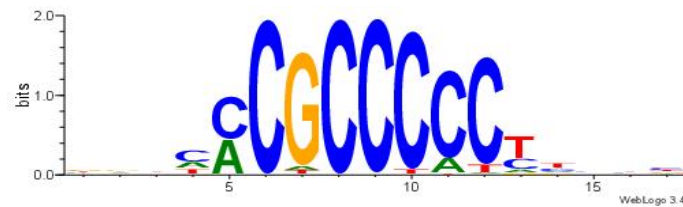
Alignment:

BVVHAGGGGGCGRDHBB

-RGRAGARRGARRAR--

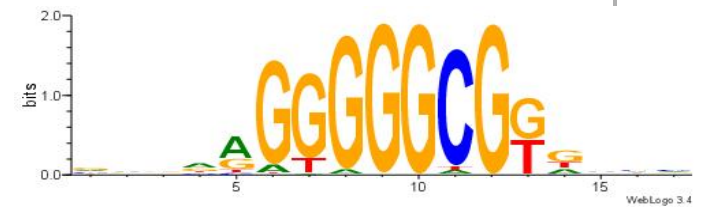
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



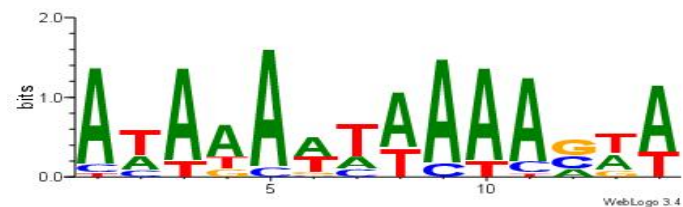
Dataset #: 2

Motif ID: 3

Motif name: Motif 3

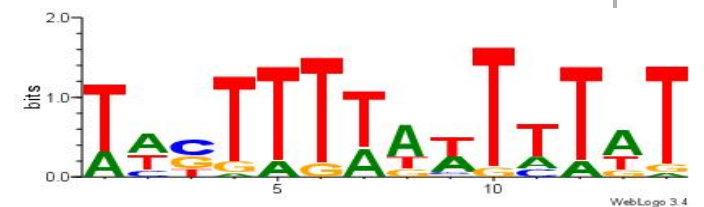
Original motif

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

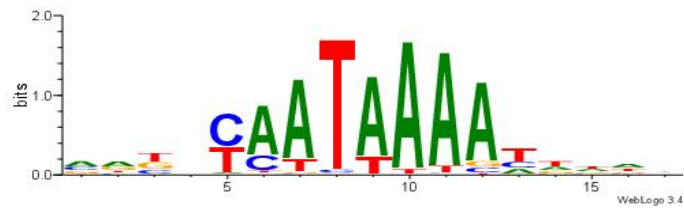
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0232094

Alignment:

```
HDDDATTTTATTKVRDB  
--TWSTTTWAWTTTWT-
```

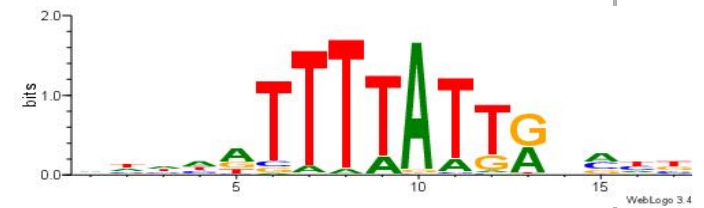
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



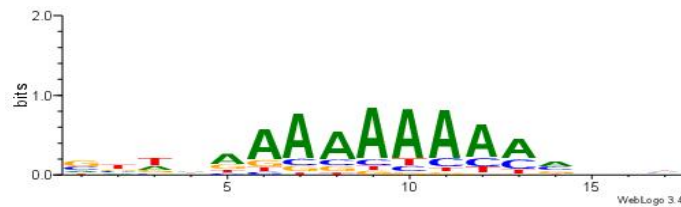
Motif ID: [UP00077](#)
Motif name: Srf_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.024404

Alignment:

VBDDAAAAAAAAAMVBHH
--AWAAAWTWAAASWA-

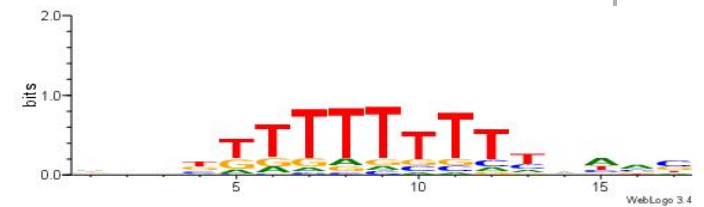
Original motif

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:

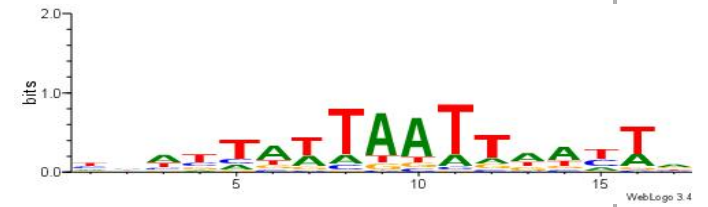
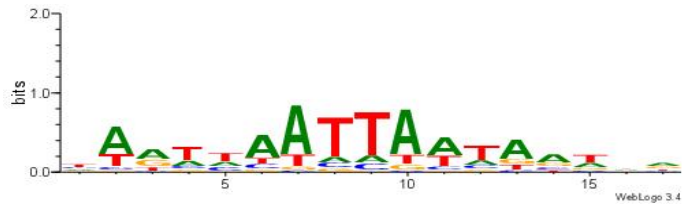
HARTHAATTAWTAVDHD
--AWAAAWTWAAASWA-

Original motif

Consensus sequence: HARTHAATTAWTAVDHD

Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH

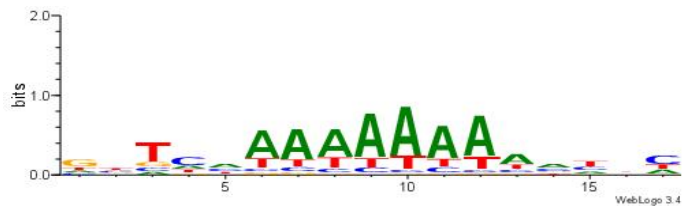


Motif ID: [UP00090](#)
 Motif name: Elf3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0293574

Alignment:
 DBTHHAAAAAAAAAVHDH
 --AWAAAWTWAAASWA-

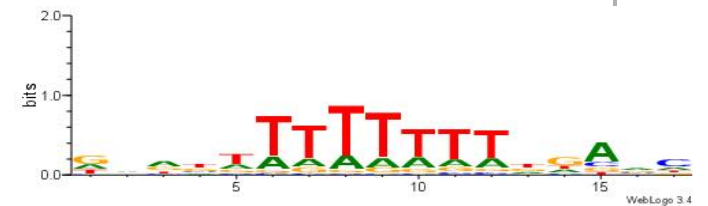
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



Motif ID: [UP00037](#)

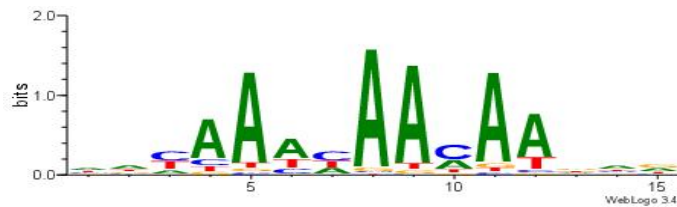
Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0316804

Alignment:

HDYAAHAAMAADHD
 AWAAAWTWAAASWA-

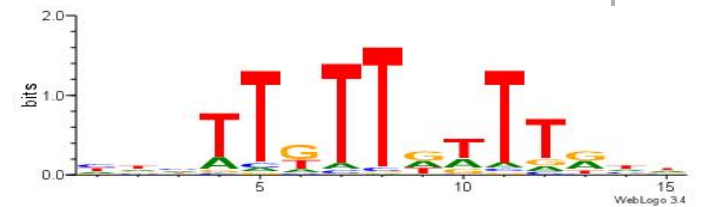
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTRTTDTTTKDH



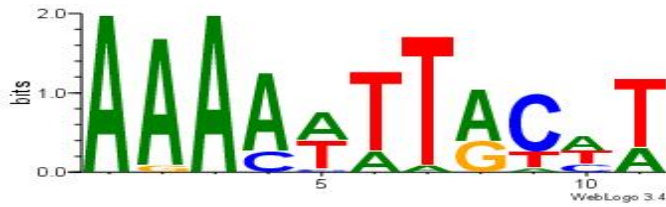
Dataset #: 2 Motif ID: 4 Motif name: Motif 4

Original motif

Consensus sequence: AAAAWTTRCWT

Reverse complement motif

Consensus sequence: AWGKAAWTTTT



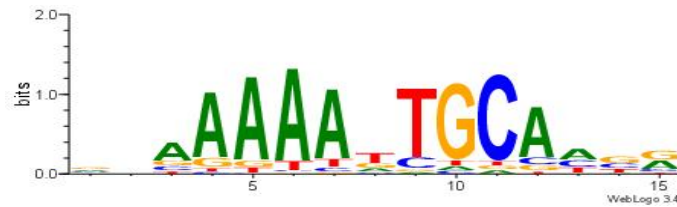
Best Matches for Motif ID 4 (Highest to Lowest)

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--

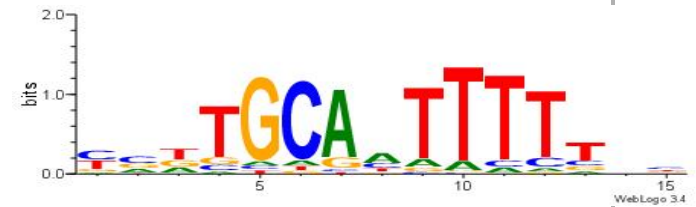
Original motif

Consensus sequence: VHAAAAADTGCAHBR



Reverse complement motif

Consensus sequence: MBHTGCADTTTTTHV



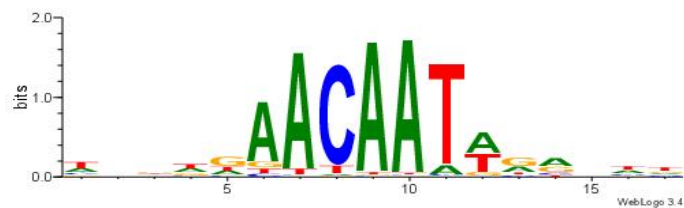
Motif ID: [UP00075](#)
Motif name: Sox15_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0318877

Alignment:

DHVKMWATTGTTHDHDH
AWGKAAWTTTT-----

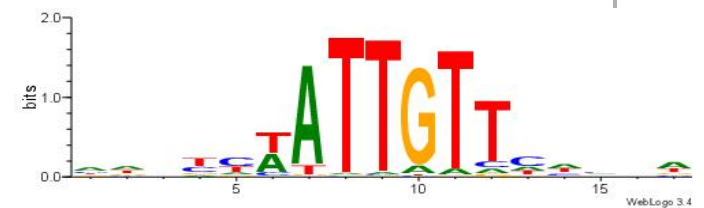
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



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

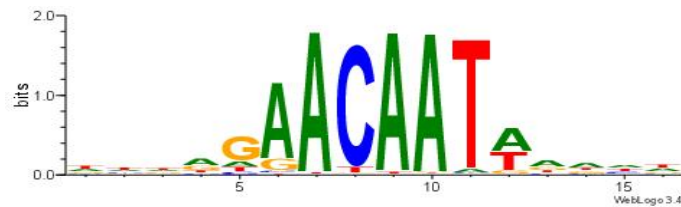
Number of overlap: 11
Similarity score: 0.0333897

Alignment:

DHDDWATTGTTCCDDHD
AWGKAAWTTTT-----

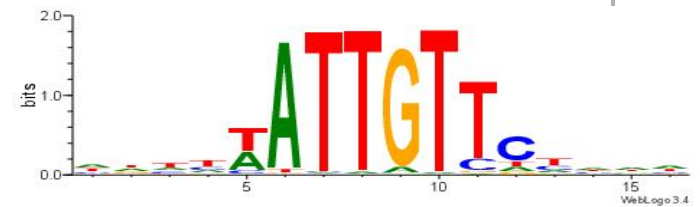
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCCDDHD



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

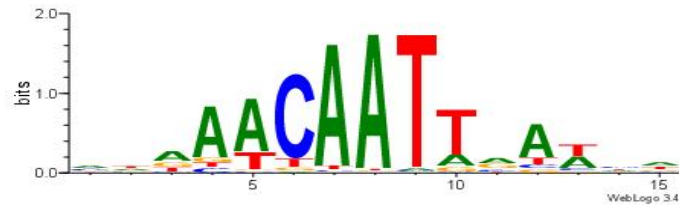
Alignment:

DDWTBAATTGTTDDB
-AWGKAAWTTTT---

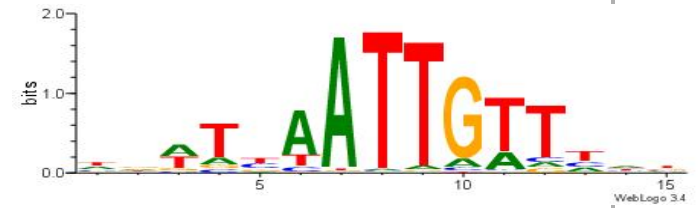
Original motif

Reverse complement motif

Consensus sequence: VDDAACAATTVAWHD



Consensus sequence: DDWTBAATTGTTDDB



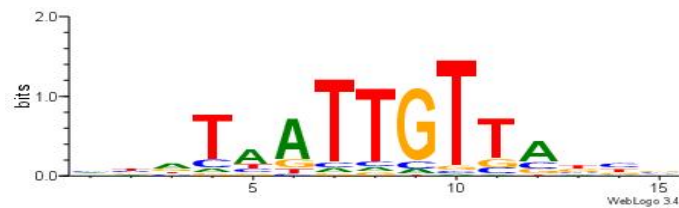
Motif ID: [UP00069](#)
Motif name: Sox1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0357052

Alignment:

```
HBDTAATTGTTABBV  
AWGKAAWTTTTT----
```

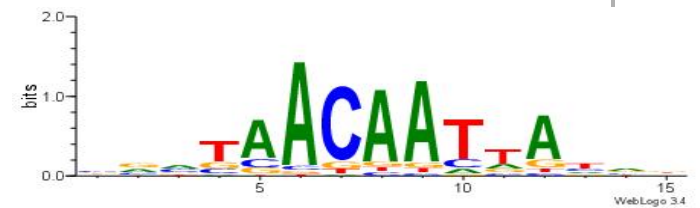
Original motif

Consensus sequence: HBDTAATTGTTABBV



Reverse complement motif

Consensus sequence: VBVTAACAATTADVD



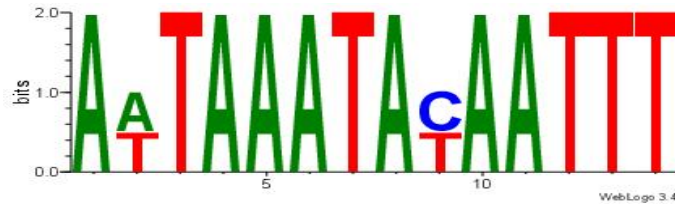
Dataset #: 2

Motif ID: 5

Motif name: Motif 5

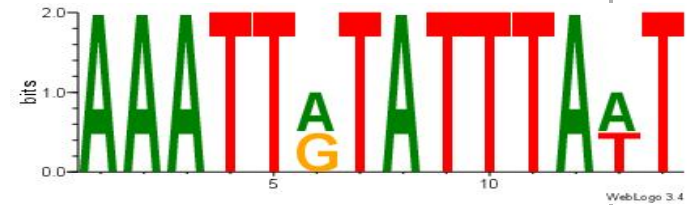
Original motif

Consensus sequence: AWTAATAYAATTT



Reverse complement motif

Consensus sequence: AAATTKTATTTAWT



Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID: [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: 0.0258732

Alignment:

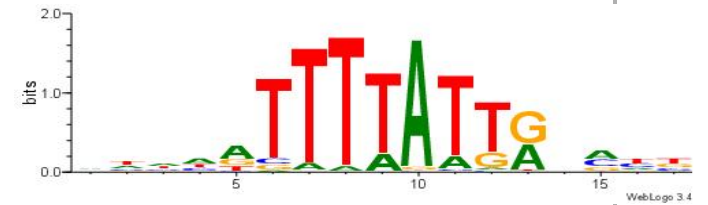
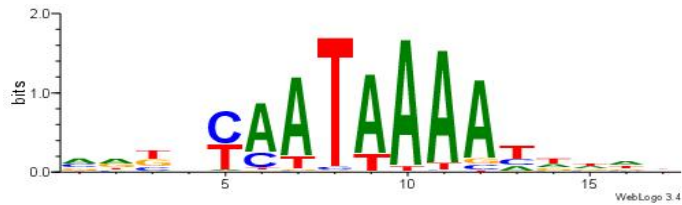
```
HDDDATTTTATTKVRDB  
--AAATTKTATTTAWT-
```

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

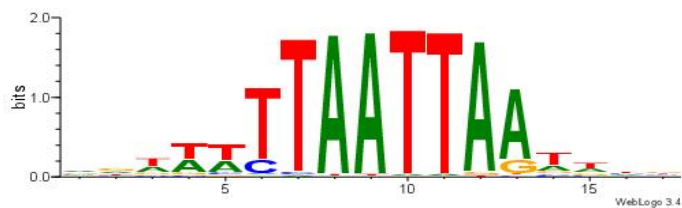


Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0275967

Alignment:
 VDWWWTTAATTAATDHB
 AAATTKTATTTAWT---

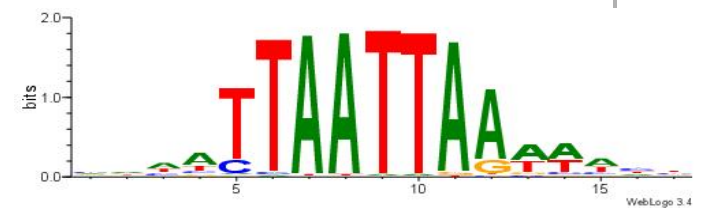
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00212](#)

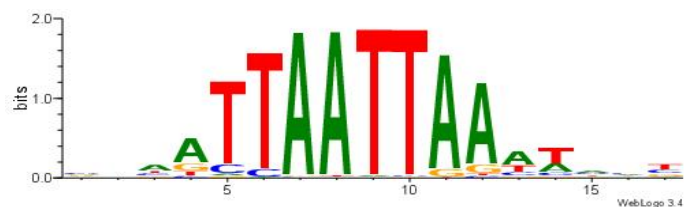
Motif name: Lhx5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0276125

Alignment:

VDHWTTTAATTAATHHV
 AAATTKTATTTAWT---

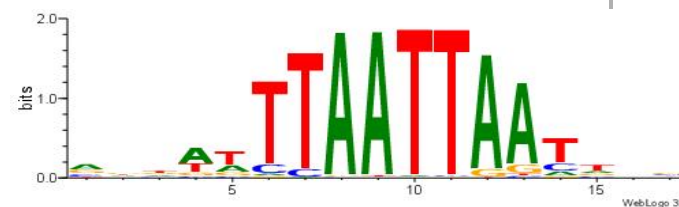
Original motif

Consensus sequence: VDHATTAATTAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAATTAATHHV



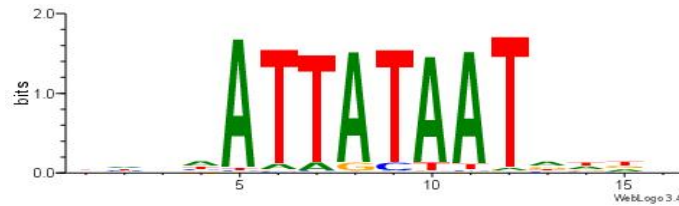
Motif ID: [UP00016](#)
 Motif name: Sry_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.027741

Alignment:

BHDHATTATAATDDD
AWTAAATAYAATTT--

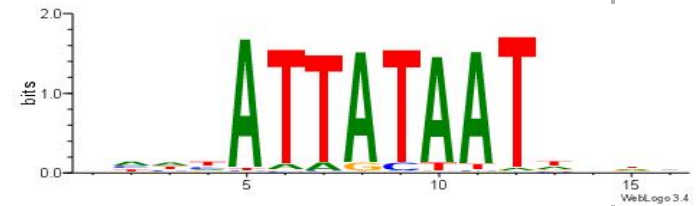
Original motif

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:

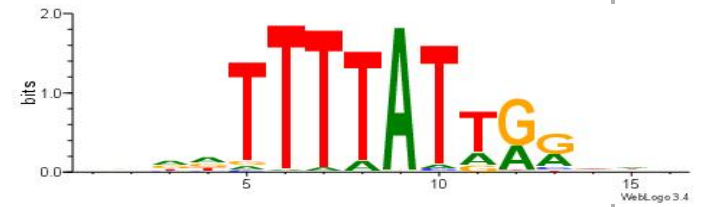
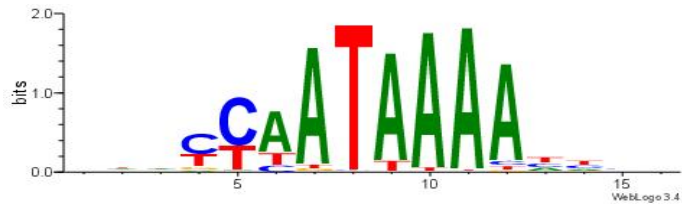
HDHHTTTTATTKKHDD
-AAATTKTATTTAWT-

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



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

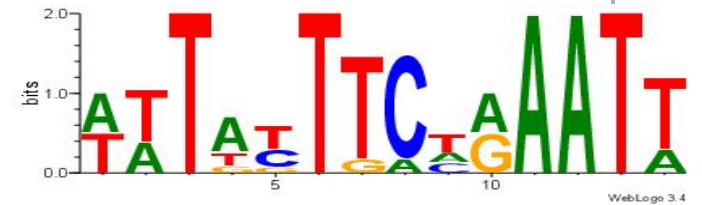
Original motif

Consensus sequence: AATTYDGAARTAWW



Reverse complement motif

Consensus sequence: WWTAKTTCDKAATT



Best Matches for Motif ID 6 (Highest to Lowest)

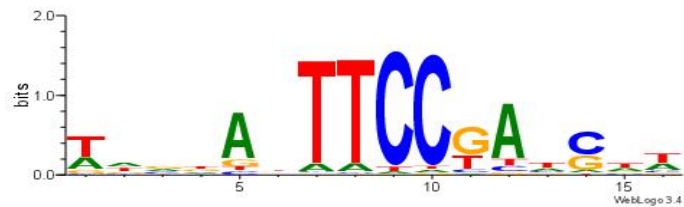
Motif ID:	UP00015
Motif name:	Ehf_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0435331

Alignment:

WDSHTYGGAAVTDVDW
-AATTYDGAARTAWW-

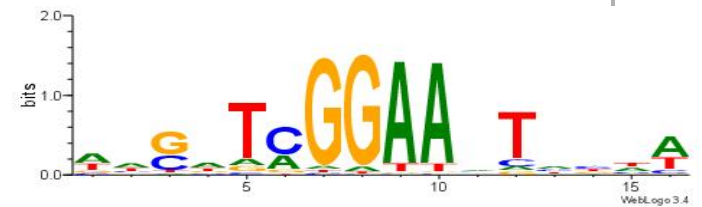
Original motif

Consensus sequence: WDVDABTTCCKAHSDW



Reverse complement motif

Consensus sequence: WDSHTYGGAAVTDVDW

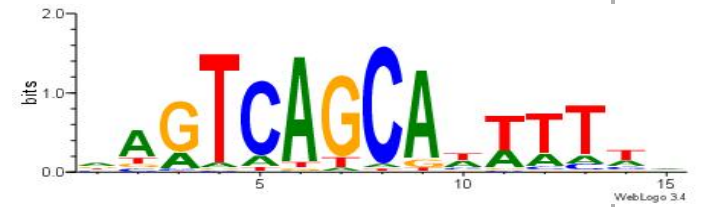
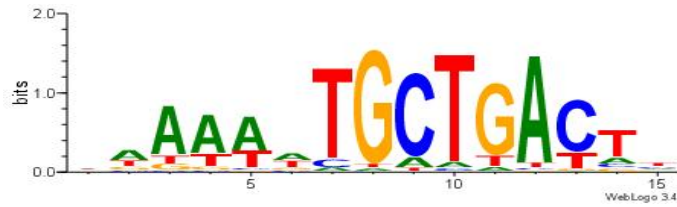


Motif ID: [UP00044](#)
Motif name: Mafk_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0443465

Alignment:
HAGTCAGCAWTTTWD
AATTYDGAARTAWW-

Original motif
Consensus sequence: DWAAAWTGCTGACTH

Reverse complement motif
Consensus sequence: HAGTCAGCAWTTTWD

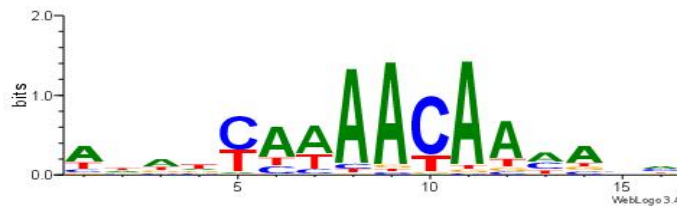


Motif ID: [UP00061](#)
 Motif name: Foxl1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0477209

Alignment:
 HDTYTTGTTWTKDDDT
 --WWTAKTTCDKAATT

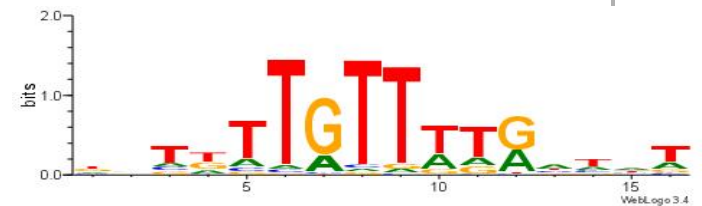
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00255](#)

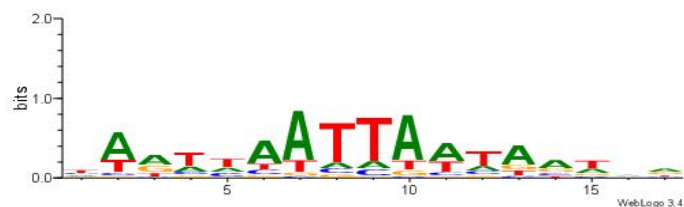
Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0481558

Alignment:

DHDBTAWTAATTHAKTH
 --WWTAKTTCDKAATT-

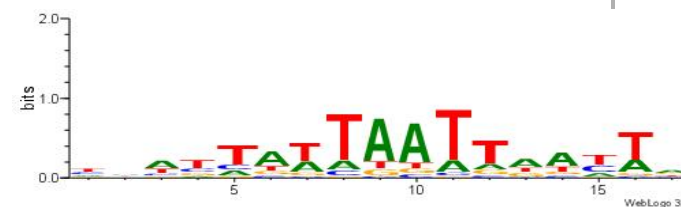
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



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

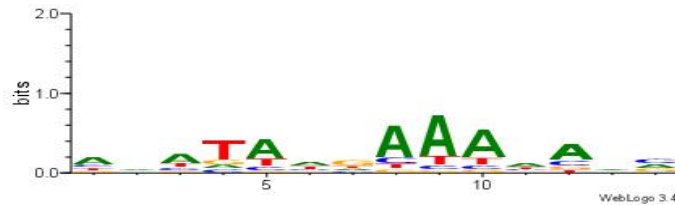
Alignment:

VDTHTTTHHTATDH

WWTAKTTCDKAATT

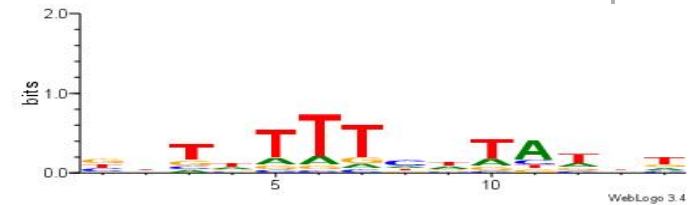
Original motif

Consensus sequence: HDATAHDAAAHADV



Reverse complement motif

Consensus sequence: VDTHTTTTHHTATDH



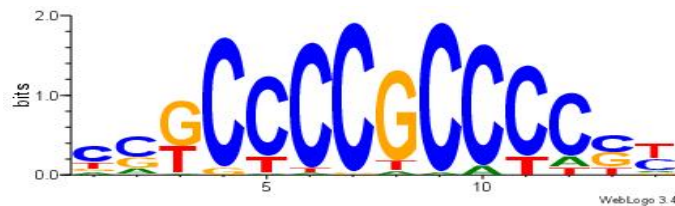
Dataset #: 2

Motif ID: 7

Motif name: Motif 7

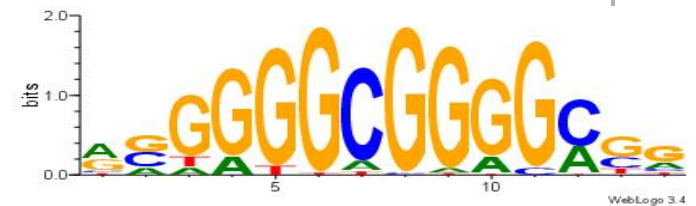
Original motif

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:

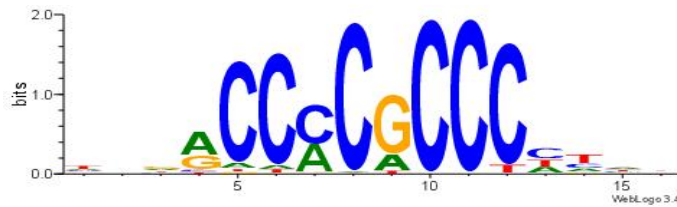
Reverse Complement

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

Alignment:
 DHH DGGGCGRGGKHBH
 -MSGGGGCGGGYSG-

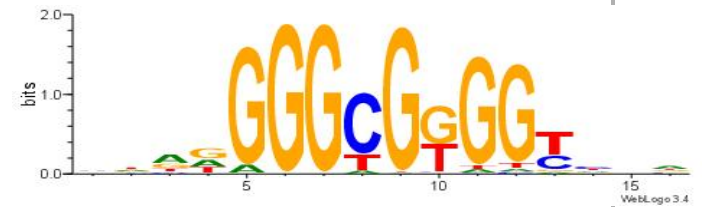
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



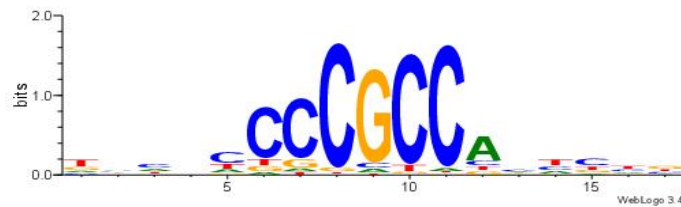
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.00741351

Alignment:

DHHBCCCCGCCAHHBHB
-CSKCCCCGCCCSY--

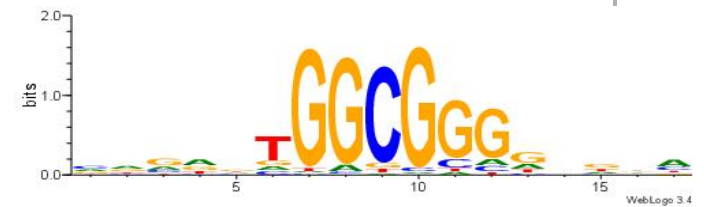
Original motif

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:

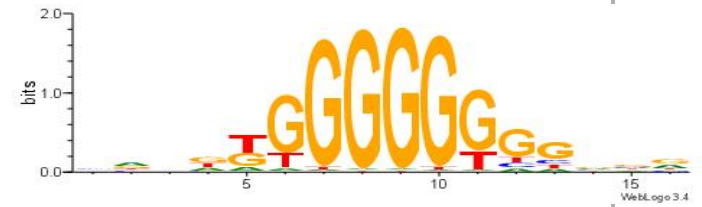
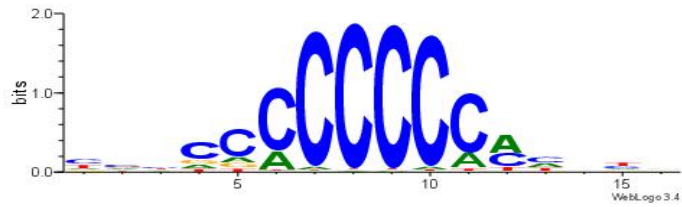
HVBCCCCCCCCMHHHB
CSKCCCCGCCCSY--

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

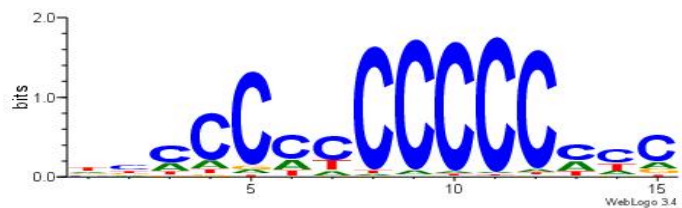
Consensus sequence: BHHDYGGGGGGGBVD



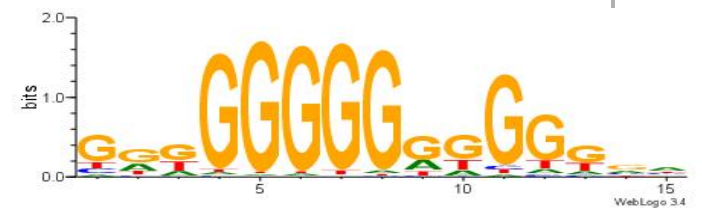
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0133301

Alignment:
 DBCCCCCCCCMYC
 -CSKCCCCGCCCSY

Original motif
 Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif
 Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00033](#)

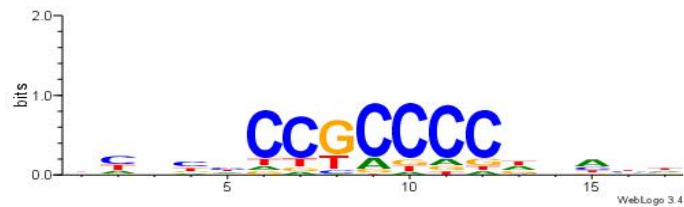
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0158143

Alignment:

HHHHDGGGGCGGDBHDV
 ---MSGGGGCGGGYSG

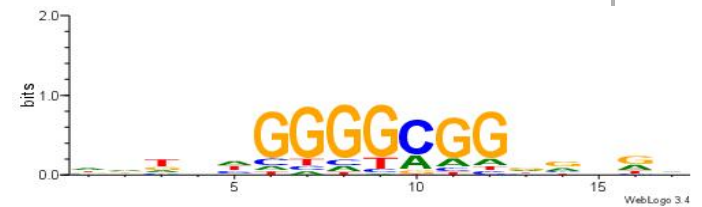
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



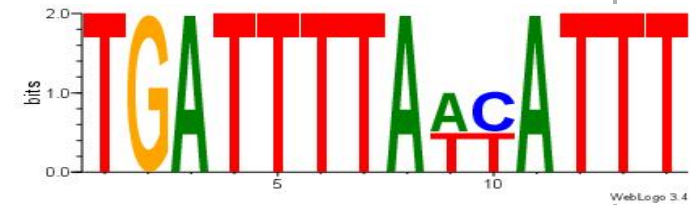
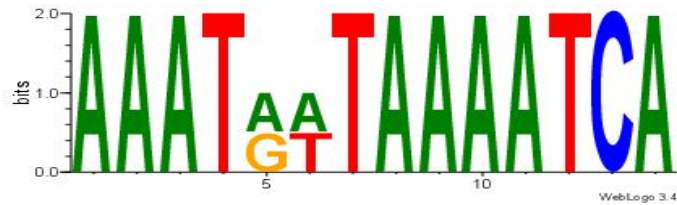
Dataset #: 2 Motif ID: 8 Motif name: Motif 8

Original motif

Consensus sequence: AAATRWATAAATCA

Reverse complement motif

Consensus sequence: TGATTTAWKATTT



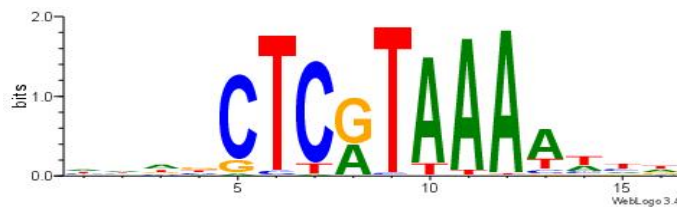
Best Matches for Motif ID 8 (Highest to Lowest)

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--

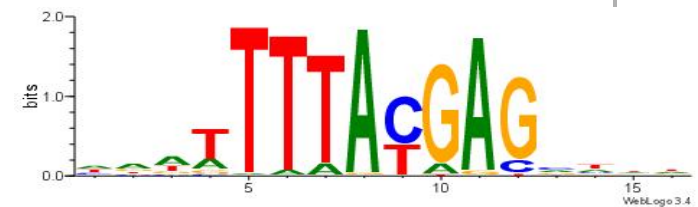
Original motif

Consensus sequence: HHDBCTCRATAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH



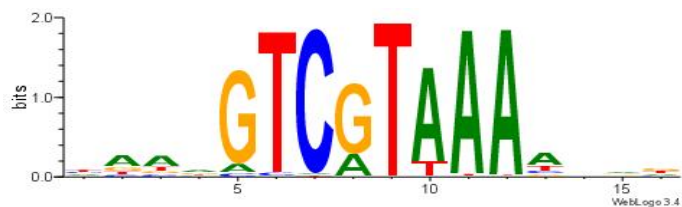
Motif ID: [UP00235](#)
 Motif name: Hoxc11
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.036026

Alignment:

HDHTTTTACGACDTTH
 TGATTTTAWKATTT--

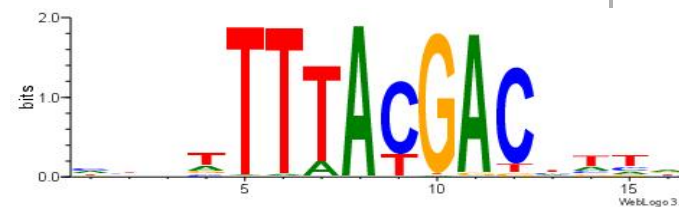
Original motif

Consensus sequence: HAADGTCGTAAAHDD



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

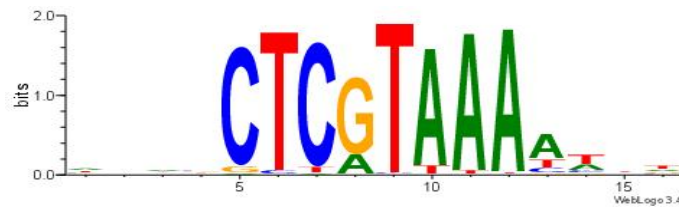
Number of overlap: 14
Similarity score: 0.0380573

Alignment:

DVWTTTTACGAGBHDH
TGATTTTAWKATTT--

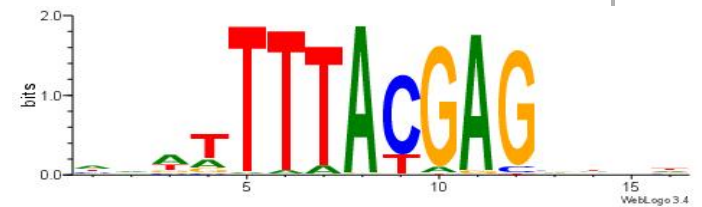
Original motif

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

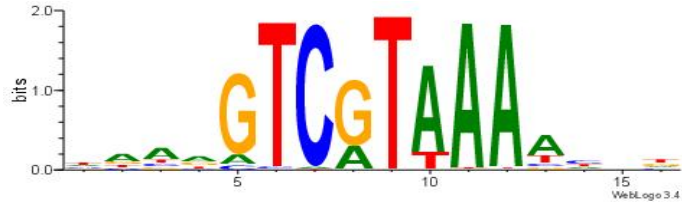
Alignment:

DDTTTTTACGACDTH
TGATTTTAWKATTT--

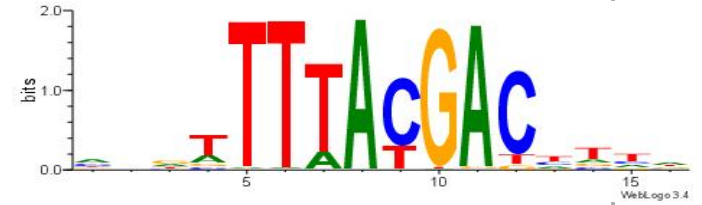
Original motif

Reverse complement motif

Consensus sequence: HDADGTCGTAAAHHDD



Consensus sequence: DDDTTTACGACDTH



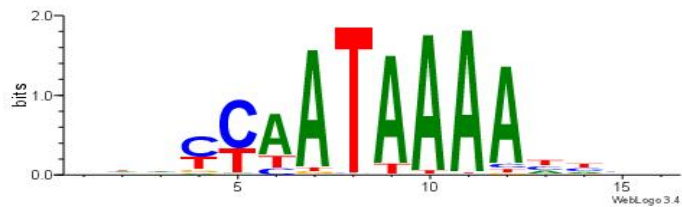
Motif ID: [UP00180](#)
Motif name: Hoxd13
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0391372

Alignment:

HDHYAATAAAAHHHH
-AAATRWATAAATCA-

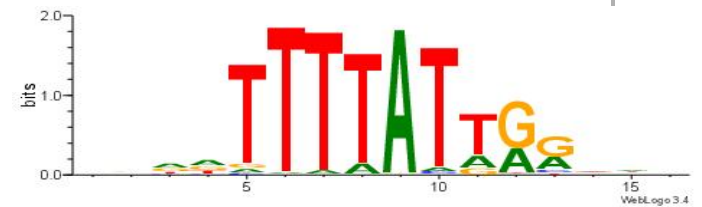
Original motif

Consensus sequence: HDHYAATAAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



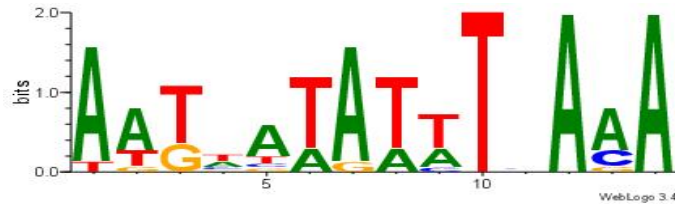
Dataset #: 2

Motif ID: 9

Motif name: Motif 9

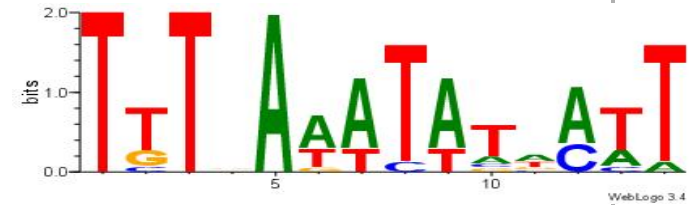
Original motif

Consensus sequence: AATHATATWTHAAA



Reverse complement motif

Consensus sequence: TTTDAWATATHATT



Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	UP00090
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:

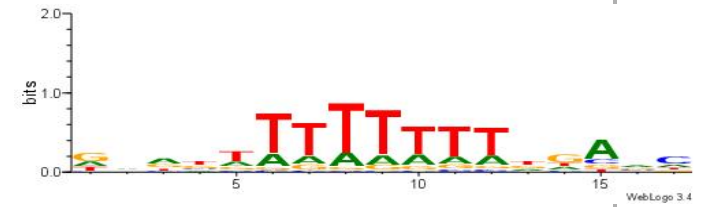
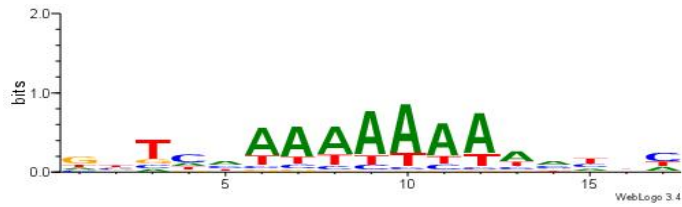
```
DBTHHAAAAAAAAAVHDH  
--TTTDAWATATHATT-
```

Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH

Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH

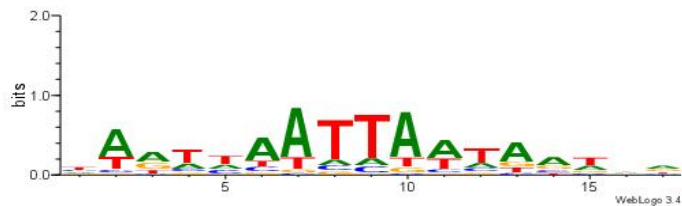


Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0522843

Alignment:
 DHDBTAWTAATTHAKTH
 --TTTDAWATATHATT--

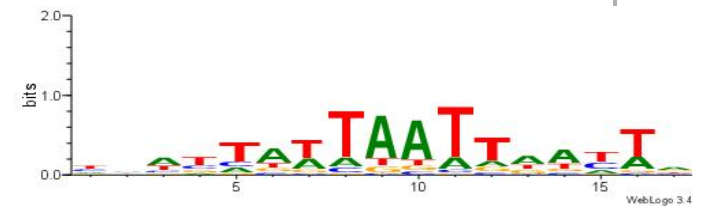
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



Motif ID: [UP00091](#)

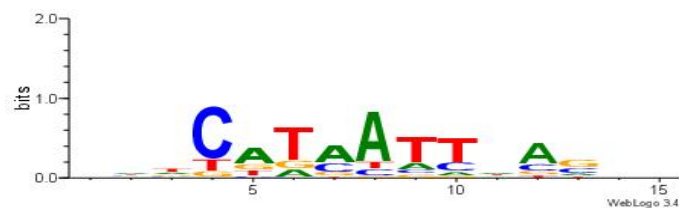
Motif name: Sox5_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0548459

Alignment:

DHDCATMATTDASDD
AATHATATWTHAAA-

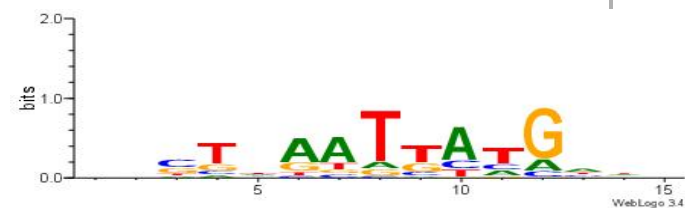
Original motif

Consensus sequence: DHDCATMATTDASDD



Reverse complement motif

Consensus sequence: DHSTDAATYATGDHD



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

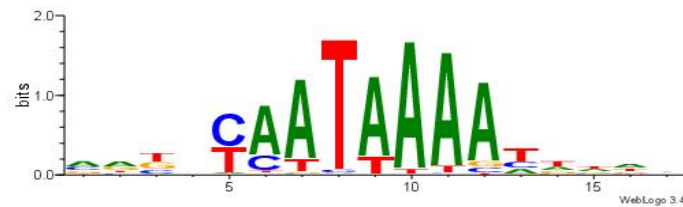
Similarity score: 0.0549685

Alignment:

```
HDDDATTTTATTKVRDB  
---AATHATATWTHAAA
```

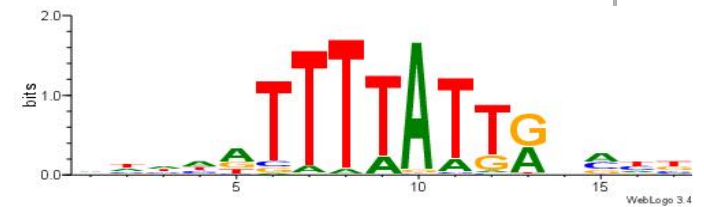
Original motif

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:

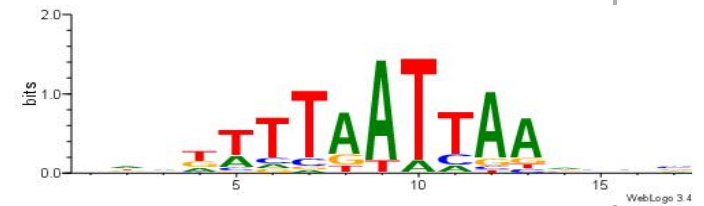
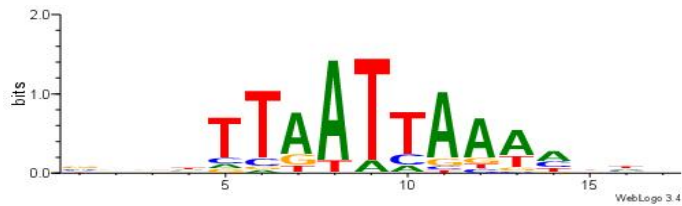
```
VBBHTTAATTAAAMHHH  
AATHATATWTHAAA---
```

Original motif

Consensus sequence: VBBHTTAATTAAAMHHH

Reverse complement motif

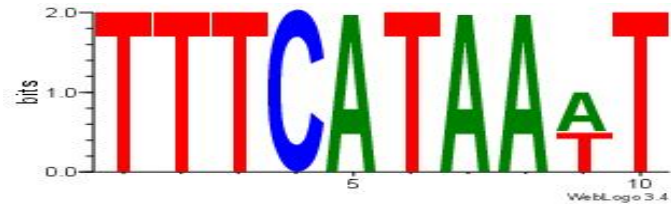
Consensus sequence: DHHYTTTAATTAAHBBV



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

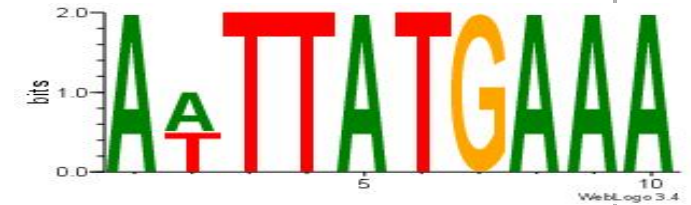
Original motif

Consensus sequence: TTTTCATAAWT



Reverse complement motif

Consensus sequence: AWTTATGAAA



Best Matches for Motif ID 10 (Highest to Lowest)

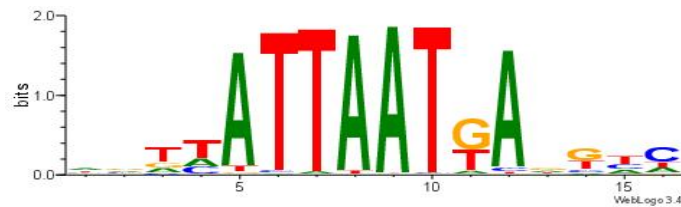
Motif ID:	UP00118
Motif name:	Pou4f3
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.017789

Alignment:

GHYHTYATTAATAAVH
--TTCATAAWT-----

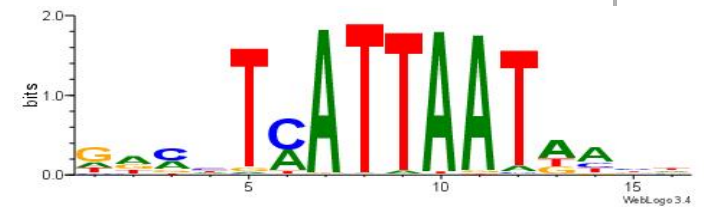
Original motif

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:

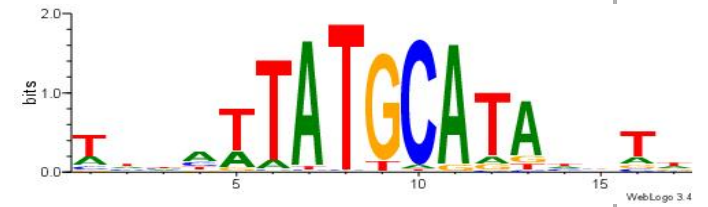
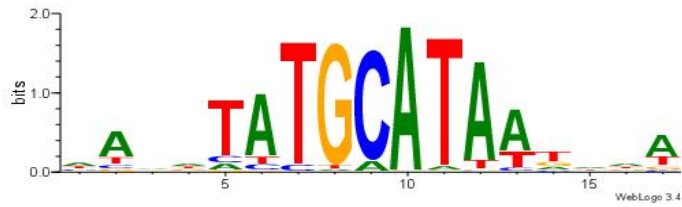
HADDTATGCATAATDDA
-----TTCATAAWT--

Original motif

Consensus sequence: HADDTATGCATAATDDA

Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH

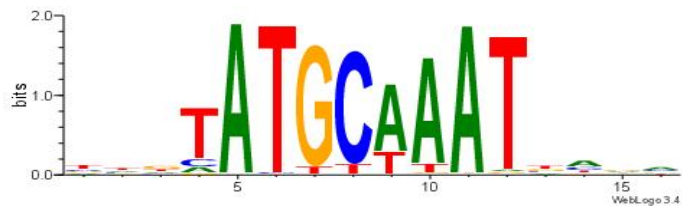


Motif ID: [UP00179](#)
 Motif name: Pou2f3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.0193076

Alignment:
 BHDTATGCAAATBHDV
 AWTATGAAA-----

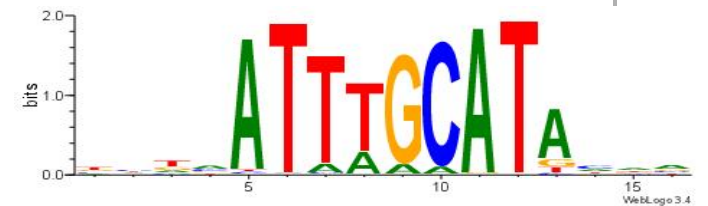
Original motif

Consensus sequence: BHDTATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



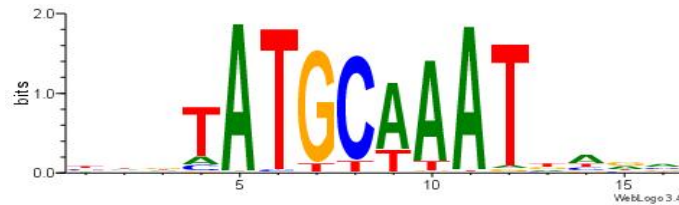
Motif ID: [UP00191](#)

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:
 BHDTATGCAAATDHDV
 -----TTCATAAWT

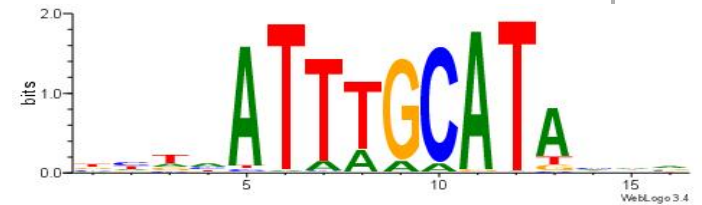
Original motif

Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



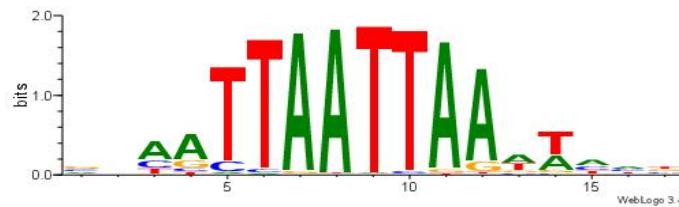
Motif ID: [UP00130](#)
 Motif name: Lhx3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.020314

Alignment:

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

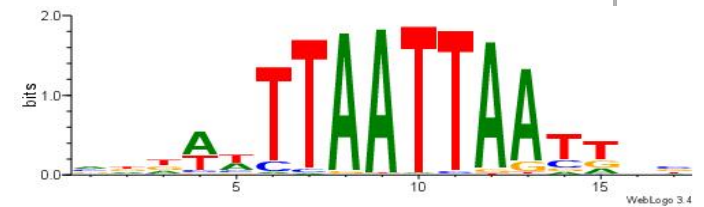
Original motif

Consensus sequence: VDAATTAATTAAWWHHB



Reverse complement motif

Consensus sequence: VHHWTTAATTAATTDV



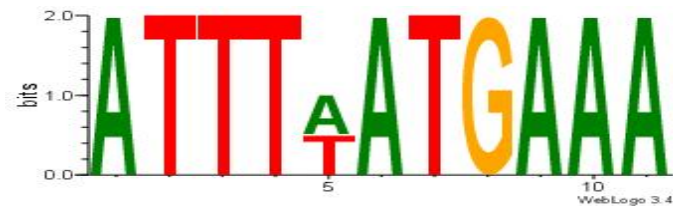
Dataset #: 2

Motif ID: 11

Motif name: Motif 11

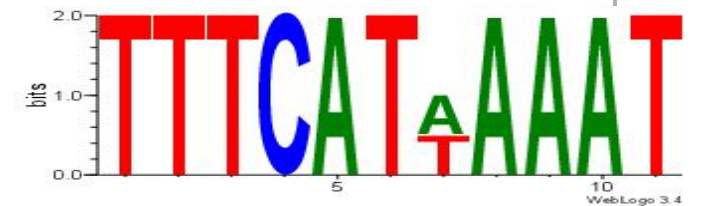
Original motif

Consensus sequence: ATTTWATGAAA



Reverse complement motif

Consensus sequence: TTTCATWAAAT



Best Matches for Motif ID 11 (Highest to Lowest)

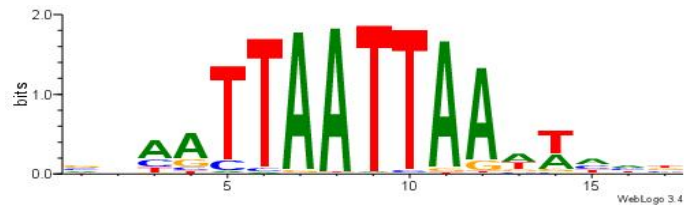
Motif ID:	UP00130
Motif name:	Lhx3
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0235917

Alignment:
VHHWTTAATTAATTDV
----TTTCATWAAAT--

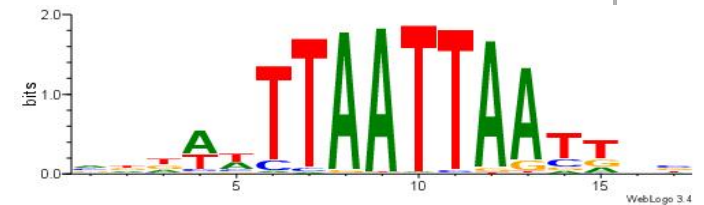
Original motif

Consensus sequence: VDAATTAATTAAWWHB



Reverse complement motif

Consensus sequence: VHHWTTAATTAATTDV



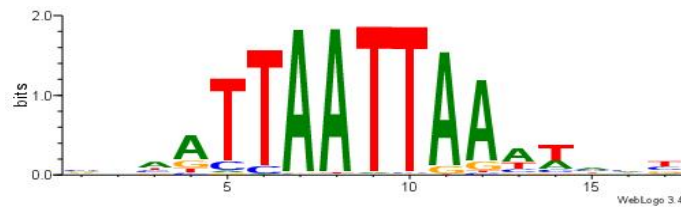
Motif ID: [UP00212](#)
Motif name: Lhx5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0238582

Alignment:

VDHWTTTAATTAATHHV
---ATTTWATGAAA---

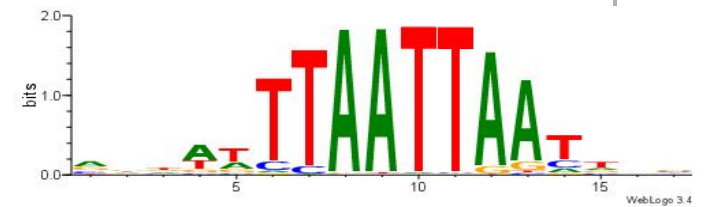
Original motif

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:

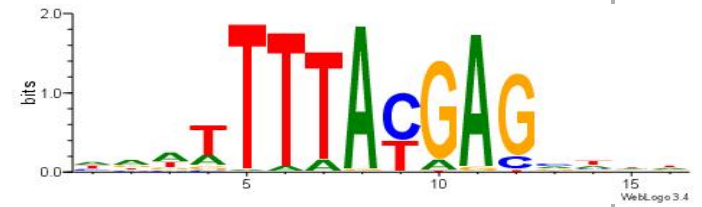
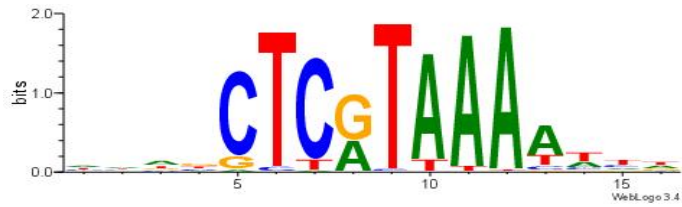
HHDBCTCRTAAAWHD
---TTTCATWAAAT--

Original motif

Consensus sequence: HHDBCTCRTAAAWHD

Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH

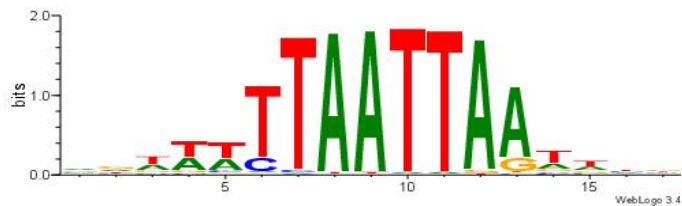


Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0247146

Alignment:
 VDWWWTTAATTAATDHB
 ----TTTCATWAAAT--

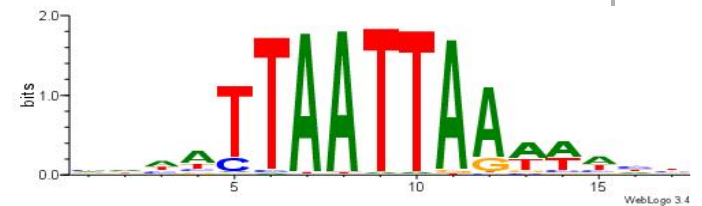
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWHB



Motif ID: [UP00188](#)

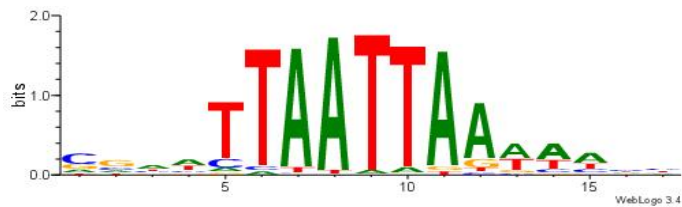
Motif name: Lmx1a
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0250542

Alignment:

CVHHTTAATTAAWWWHB
 --ATTTWATGAAA-----

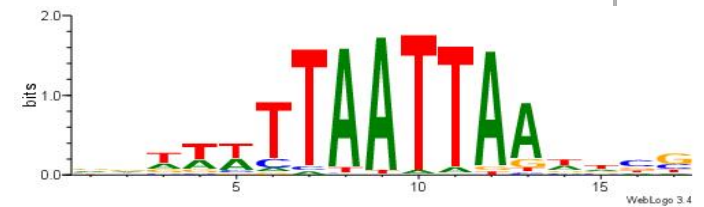
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWWTTAATTAHHVG



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

Original motif

Consensus sequence: AAAACAAA

Reverse complement motif

Consensus sequence: TTTGTTTT



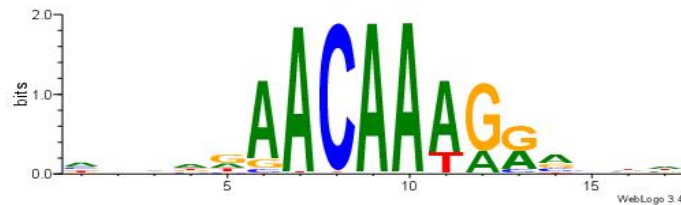
Best Matches for Motif ID 12 (Highest to Lowest)

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-----

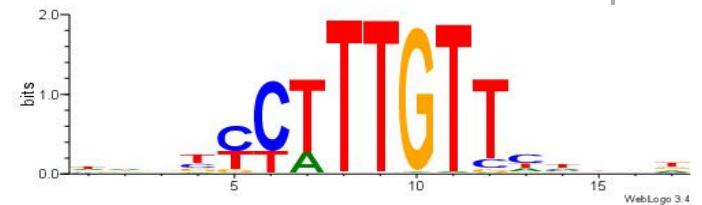
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

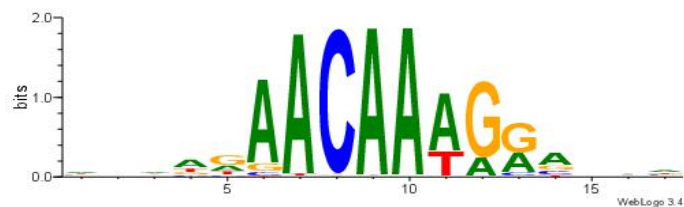


Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.000282957

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

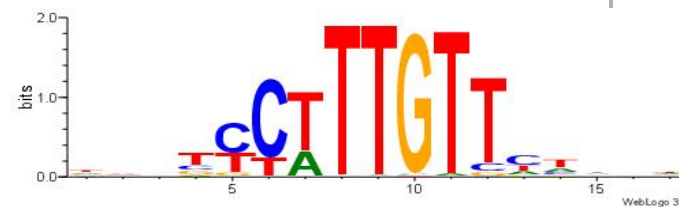
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH

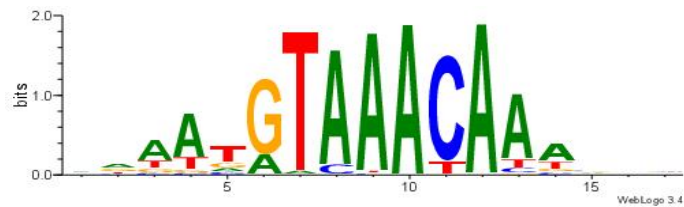


Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4

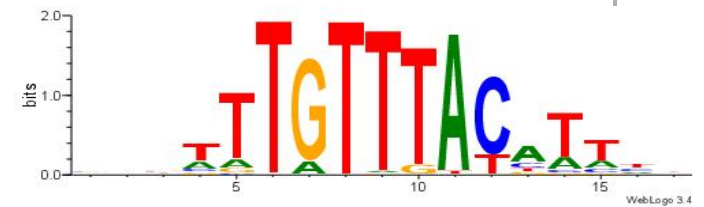
Number of overlap: 8
Similarity score: 0.00309128

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

Original motif
Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif
Consensus sequence: BBVTTTGTTTACATTDD



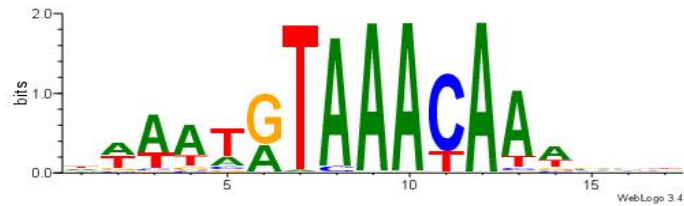
Motif ID: [UP00061](#)
Motif name: Foxl1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.00620509

Alignment:
VVVWTTGTTTAMATTWD
---TTTGTTTT-----

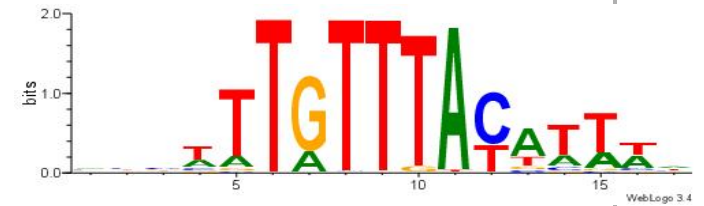
Original motif

Reverse complement motif

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



Consensus sequence: VVVWTTGTTTAMATTWD

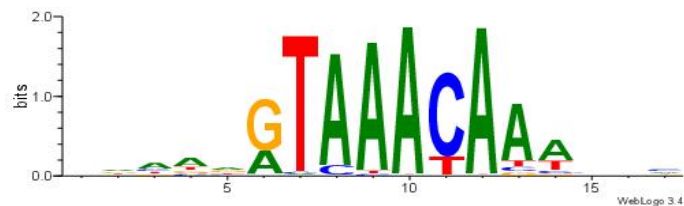


Motif ID: [UP00039](#)
Motif name: Foxj3_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.00680733

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:	UP00114
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

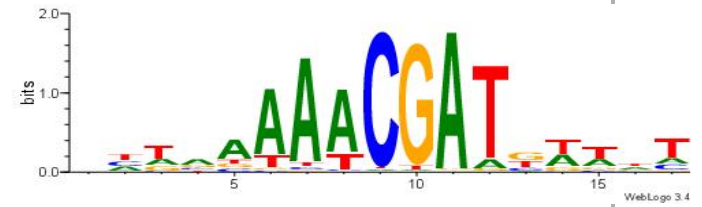
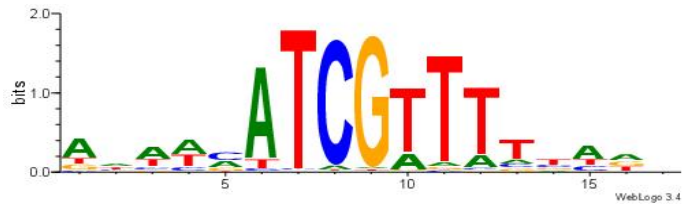
---AAATCTTT-----

Original motif

Consensus sequence: AHWWMATCGTTTTBADD

Reverse complement motif

Consensus sequence: HDTVAAAACGATRWWHT

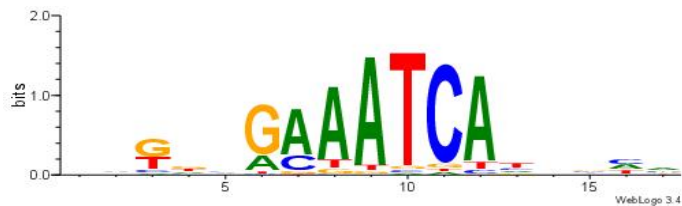


Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0107572

Alignment:
 DDKDHGAAATCAHHBHV
 -----AAATCTTT----

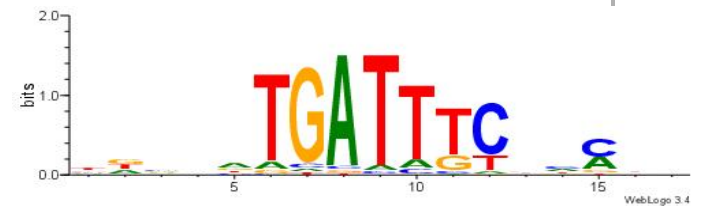
Original motif

Consensus sequence: DDKDHGAAATCAHHBHV



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-----

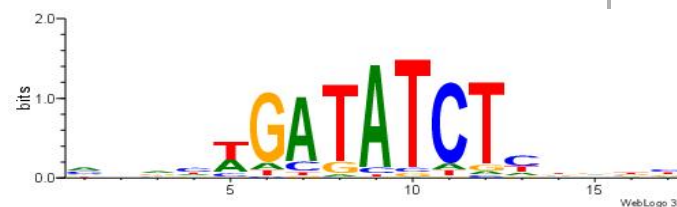
Original motif

Consensus sequence: VVBHRAGATATCWDHBB



Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV



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

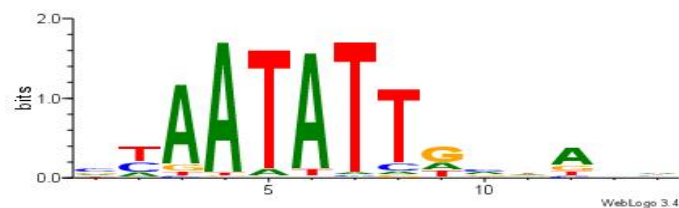
Similarity score: 0.0140725

Alignment:

HDTDVCAATATTMV
-----AAAGATTT-

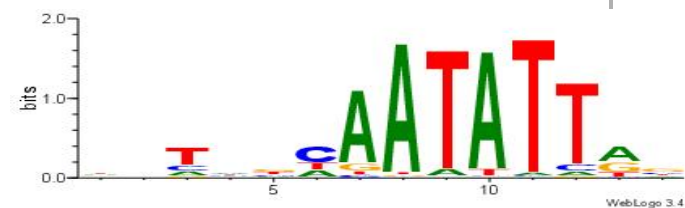
Original motif

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:

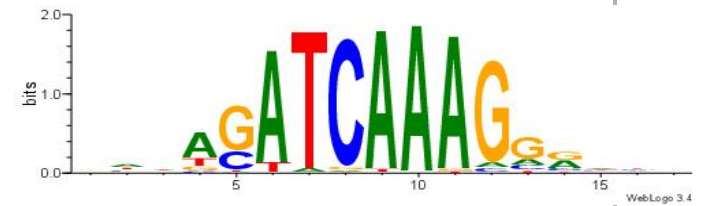
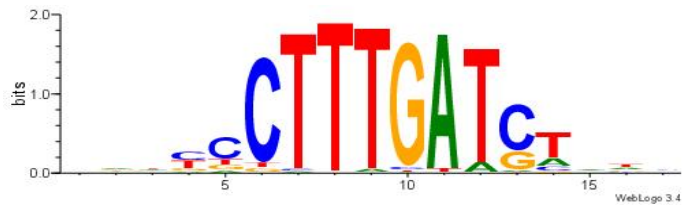
VDDAGATCAAAGGKDDD
-----AAAGATTT-

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)

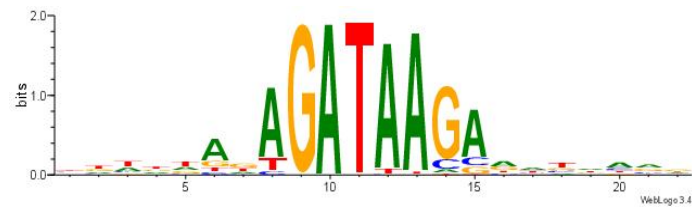
Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.00506466

Alignment:

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

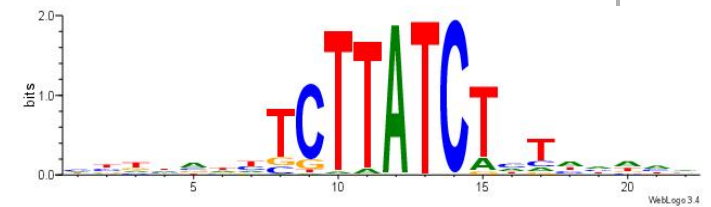
Original motif

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:

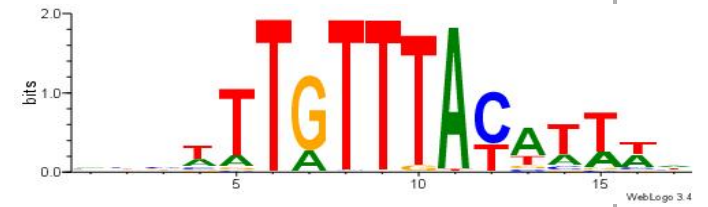
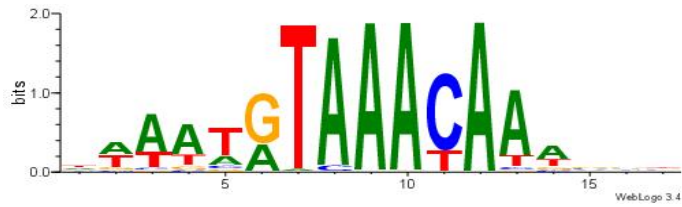
DWAATR~~T~~AACA~~AW~~VVB
-----A~~W~~A~~A~~A~~T~~A~~A~~-----

Original motif

Consensus sequence: DWAATR~~T~~AACA~~AW~~VVB

Reverse complement motif

Consensus sequence: V~~V~~W~~T~~TG~~T~~T~~T~~A~~M~~A~~T~~T~~W~~D

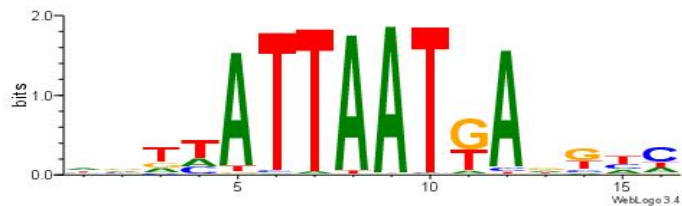


Motif ID: [UP00118](#)
 Motif name: Pou4f3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00832205

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

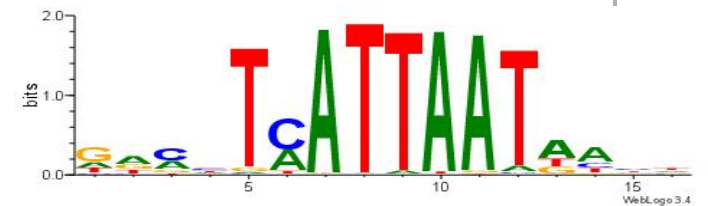
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



Motif ID: [UP00037](#)

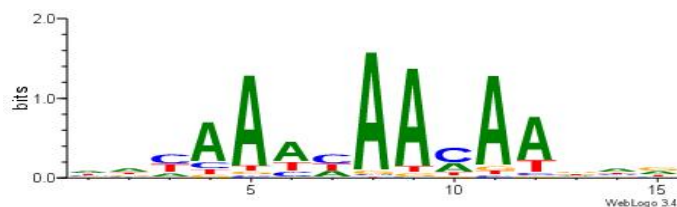
Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00912866

Alignment:

HHHTTRTTDTTTKDH
 ---TTATTTWT----

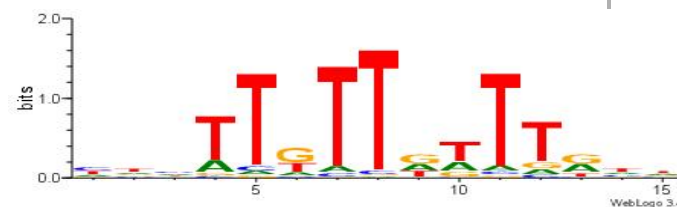
Original motif

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

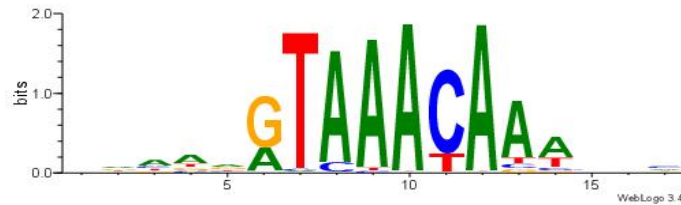
Alignment:

HDHADGTAAACAAAVVH

-----AWAAATAA-----

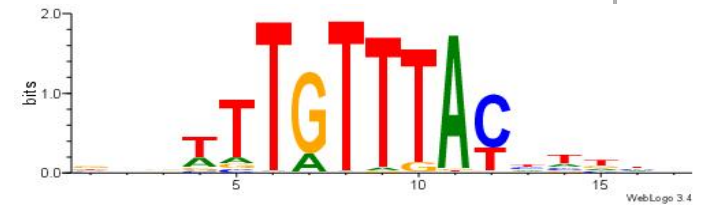
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

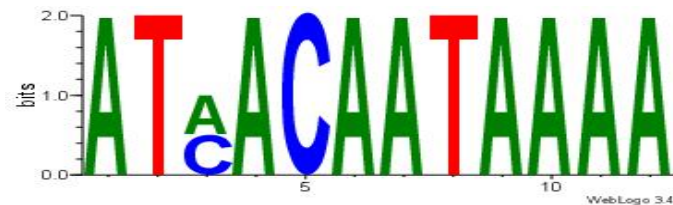
Consensus sequence: DVVTTTGTTCACDTHDH



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

Original motif

Consensus sequence: ATMACAATAAAA



Reverse complement motif

Consensus sequence: TTTTATTGTAT



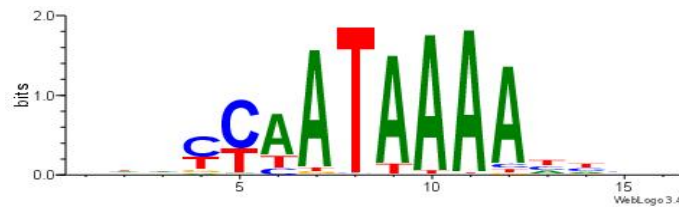
Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID:	UP00180
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

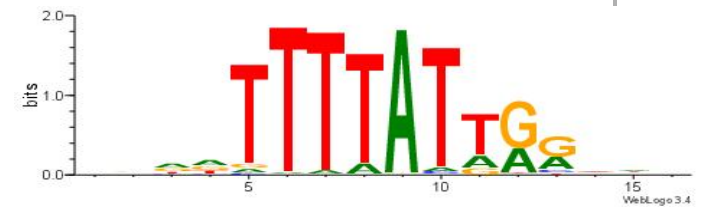
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.00878905

Alignment:
HDHHTTTTATTKKHDD
----TTTTATTGTYAT

Original motif
Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif
Consensus sequence: HDHHTTTTATTKKHDD

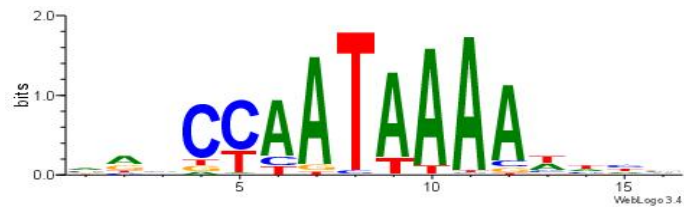


Motif ID: [UP00134](#)
Motif name: Hoxb13
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0162131

Alignment:
VRHCCAATAAAAWHHV
ATMACAATAAAA----

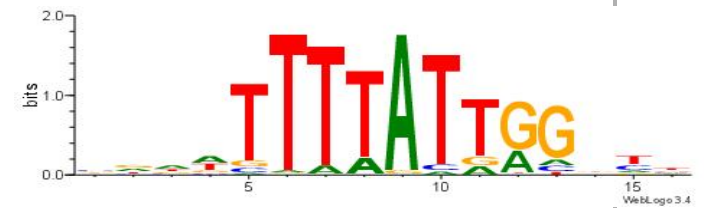
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



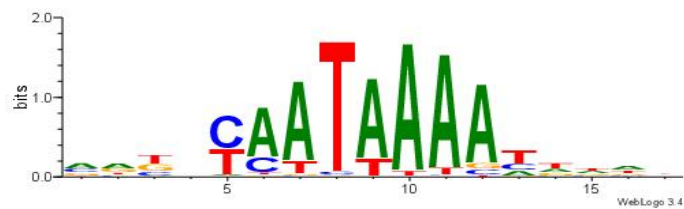
Motif ID: [UP00121](#)
Motif name: Hoxd10
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0246749

Alignment:

VDKVYAATAAAATDDDH
ATMACAATAAAA-----

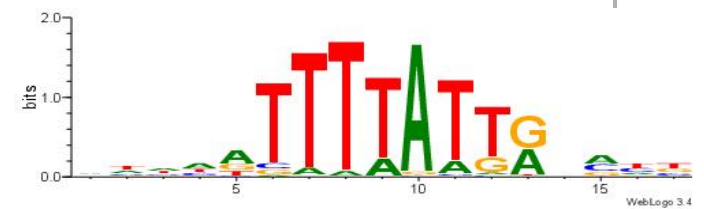
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



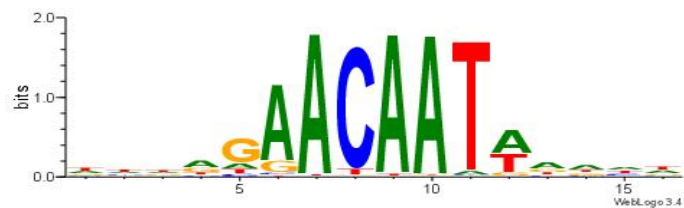
Motif ID: [UP00091](#)
Motif name: Sox5_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0247927

Alignment:

DHDDWATTGTTCCDDHD
-TTTTATTGTYAT---

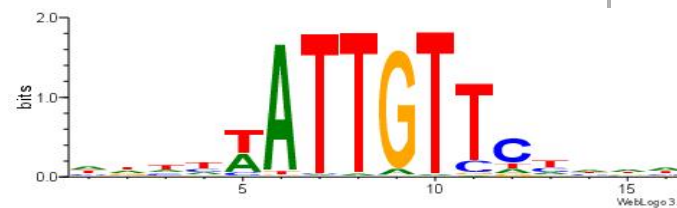
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCCDDHD

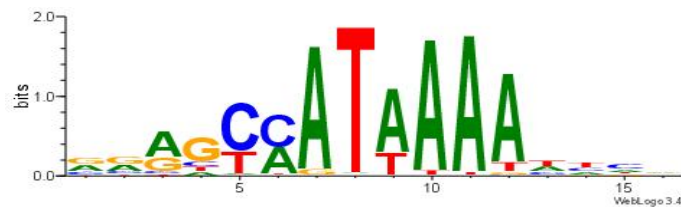


Motif ID: [UP00207](#)
Motif name: Hoxb9
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward

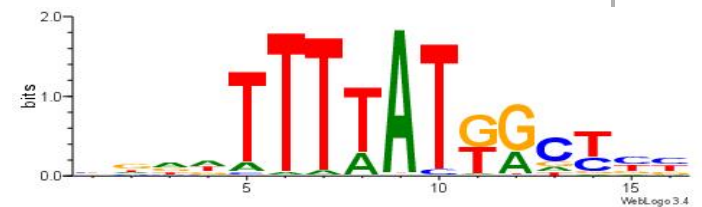
Position number: 5
Number of overlap: 12
Similarity score: 0.0248315

Alignment:
VRRGCMATAAAAHHHD
ATMACAATAAAA----

Original motif
Consensus sequence: VRRGCMATAAAAHHHD

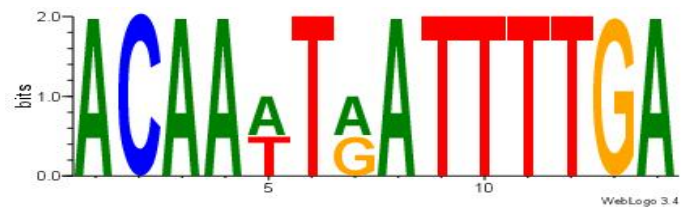


Reverse complement motif
Consensus sequence: HDHHTTTTATRGCKMV

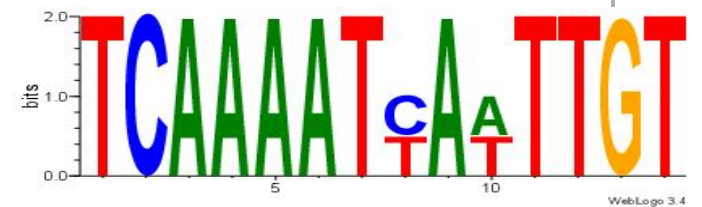


Dataset #: 2 Motif ID: 16 Motif name: Motif 16

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

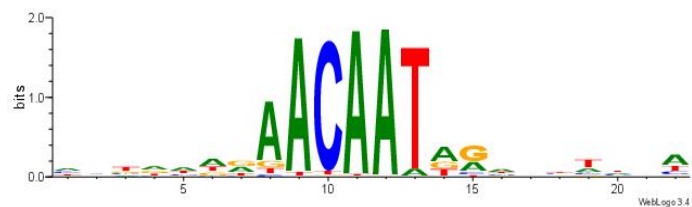
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0530035

Alignment:

HHBDHDDAACAATDRHHHHHBW
 -----ACAAWTRATTTTGA

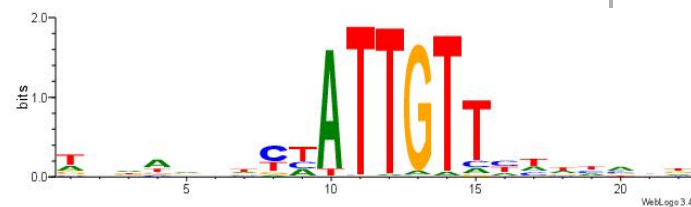
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



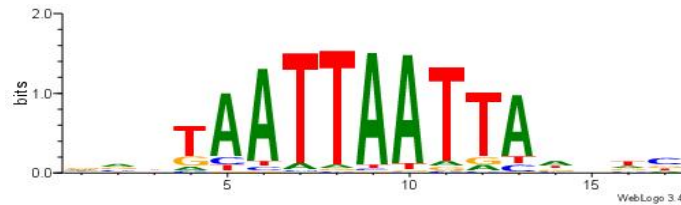
Motif ID: [UP00158](#)
 Motif name: Pou1f1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.059328

Alignment:

BDHDTAATTAATTADBH
-TCAAAATKAWTTGT--

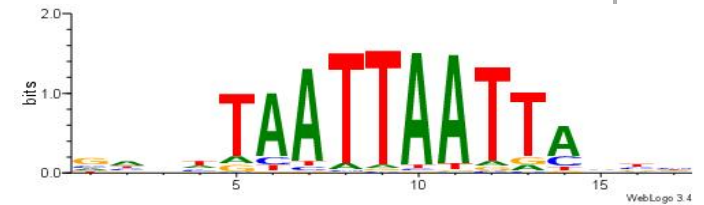
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



Motif ID:	UP00128
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:

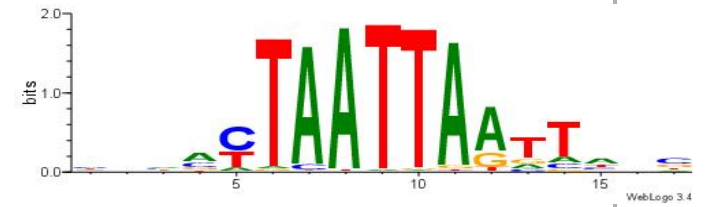
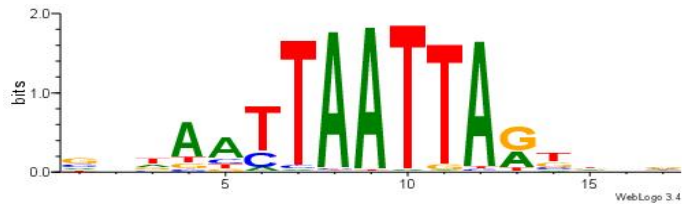
HHDVMTAATTAATTDDV
--TCAAAATKAWTTGT-

Original motif

Consensus sequence: VDDAATTAATTARBDHD

Reverse complement motif

Consensus sequence: HHDVMTAATTAATTDDV

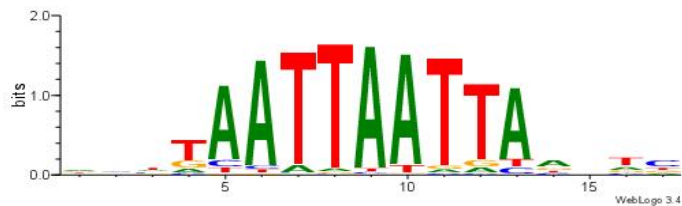


Motif ID: [UP00105](#)
 Motif name: Pou3f4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0620147

Alignment:
 BDDDTAATTAATTAHBD
 -TCAAAATKAWTTGT--

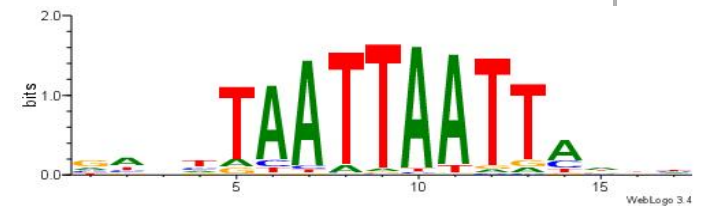
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



Motif ID: [UP00200](#)

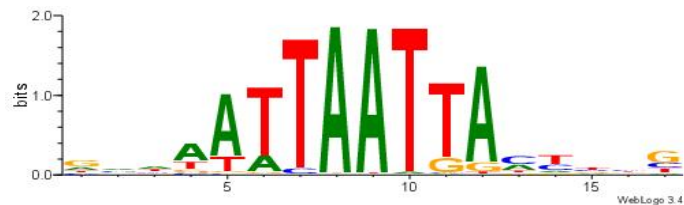
Motif name: Nkx6-1_2825.1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0623004

Alignment:

CBVMRTAATTAATTHBH
 --TCAAAATKAWTTGT-

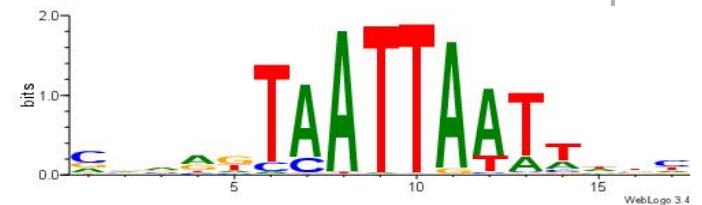
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



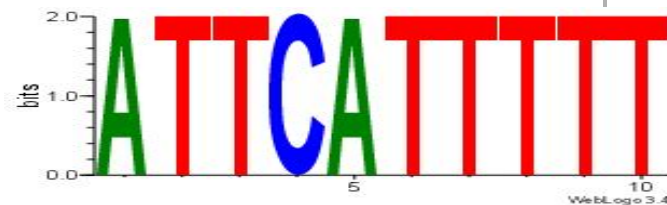
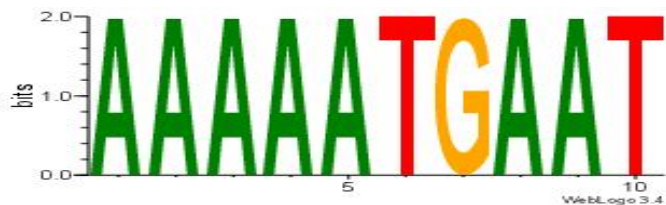
Dataset #: 2 Motif ID: 17 Motif name: Motif 17

Original motif

Consensus sequence: AAAAATGAAT

Reverse complement motif

Consensus sequence: ATTCATTTTT



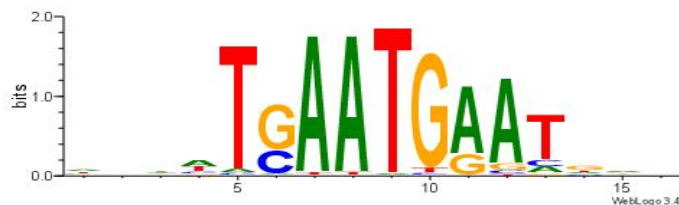
Best Matches for Motif ID 17 (Highest to Lowest)

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---

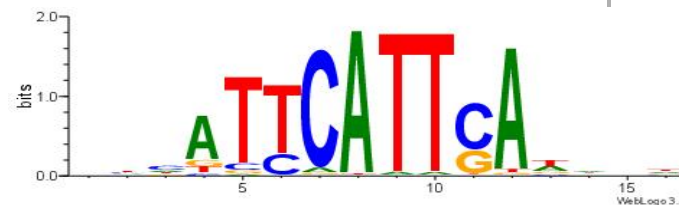
Original motif

Consensus sequence: HHDWTSAAATGAATDDB



Reverse complement motif

Consensus sequence: VDHATTCAATTSAWDDH

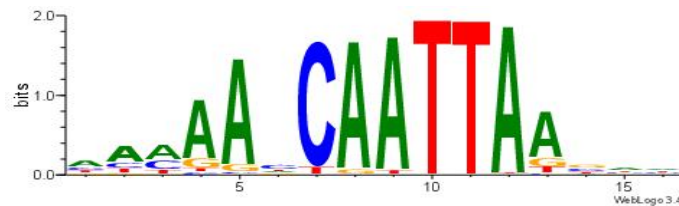


Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.010273

Alignment:
 HAMAAHCAATTAABHH
 AAAAATGAAT-----

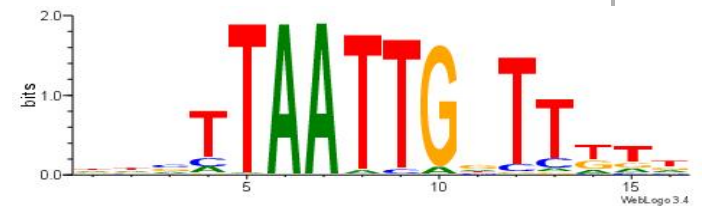
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH

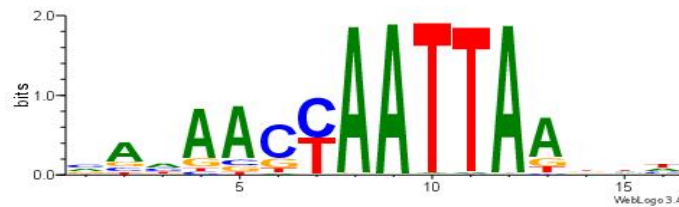


Motif ID: [UP00171](#)
 Motif name: Msx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

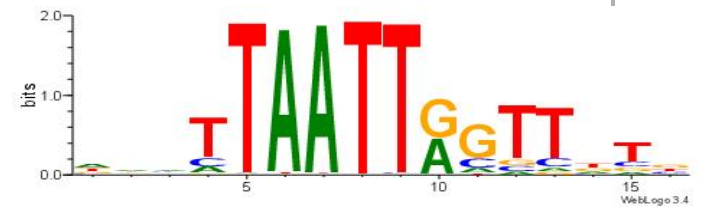
Number of overlap: 10
Similarity score: 0.0106868

Alignment:
HHVTTAATTKGTTHTV
--ATTCATTTTT----

Original motif
Consensus sequence: VAHAACYAATTAABHH



Reverse complement motif
Consensus sequence: HHVTTAATTKGTTHTV



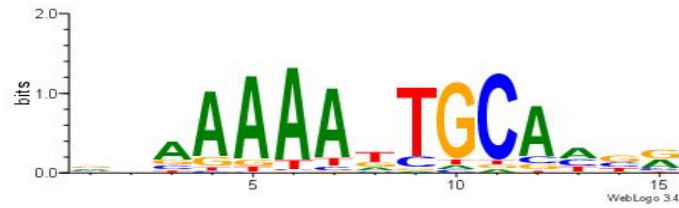
Motif ID: [UP00044](#)
Motif name: Mafk_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0131738

Alignment:
MBHTGCADTTTTTHV
--ATTCATTTTT---

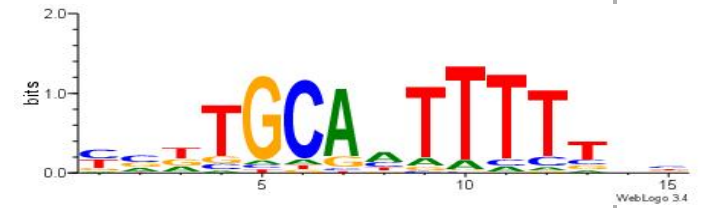
Original motif

Reverse complement motif

Consensus sequence: VHAAAADTGAHBR



Consensus sequence: MBHTGCADTTTTTHV



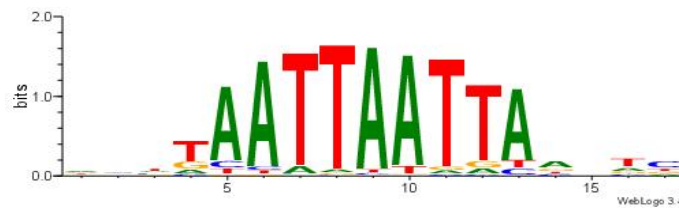
Motif ID: [UP00105](#)
Motif name: Pou3f4
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0157045

Alignment:

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

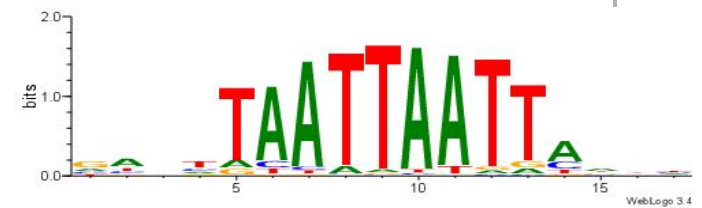
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



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

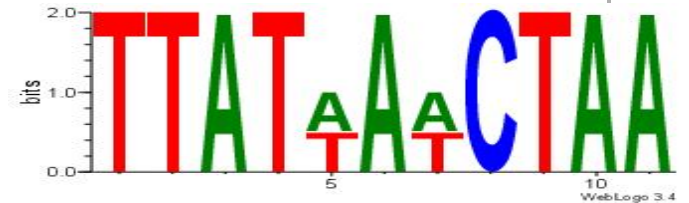
Original motif

Consensus sequence: TTAGWTWATAA



Reverse complement motif

Consensus sequence: TTATWAWCTAA



Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID:	UP00262
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:

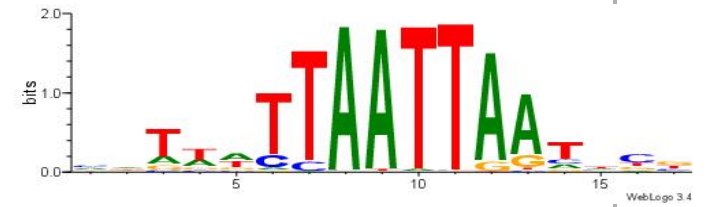
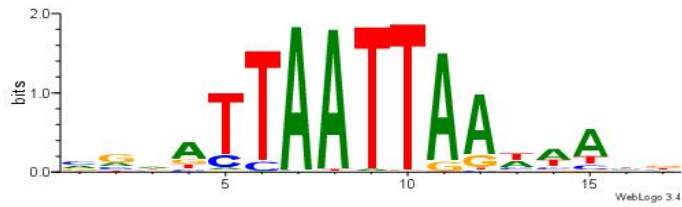
```
VVDATTAATTAAWWAHB  
----TTAGWTWATAA--
```

Original motif

Consensus sequence: VVDATTAATTAAWWAHB

Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV

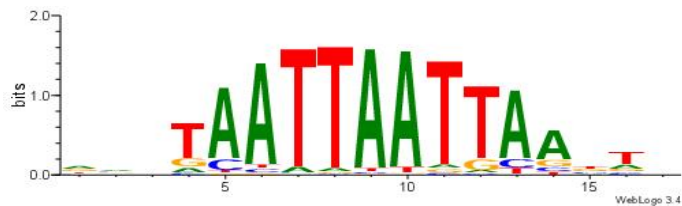


Motif ID: [UP00129](#)
 Motif name: Pou3f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.038042

Alignment:
 DAVTTAATTAATTAVBD
 ---TTAGWTWATAA---

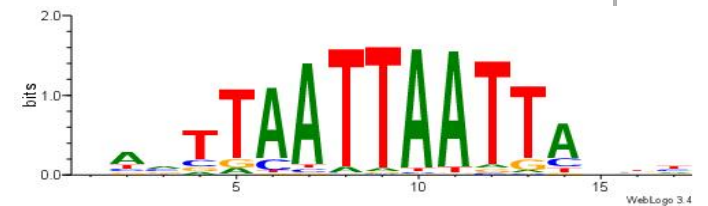
Original motif

Consensus sequence: DVBTAAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



Motif ID: [UP00082](#)

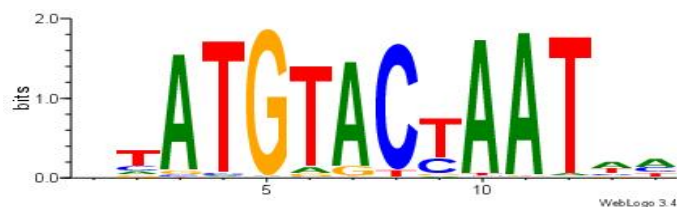
Motif name: Zfp187_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0384021

Alignment:

HWATTAGTACATAV
 ---TTAGWTWATAA

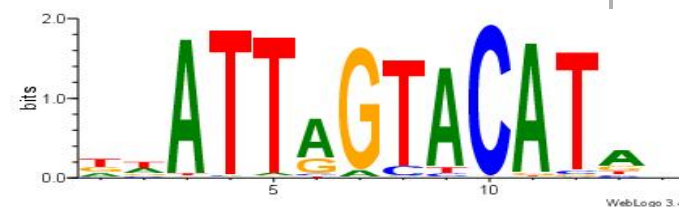
Original motif

Consensus sequence: BTATGTAATAATWH



Reverse complement motif

Consensus sequence: HWATTAGTACATAV



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

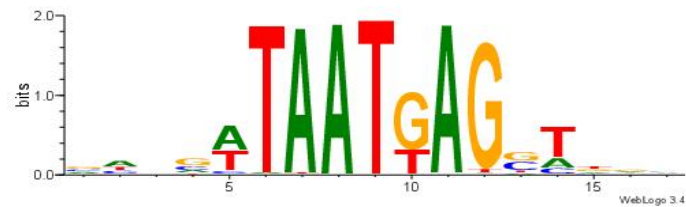
Similarity score: 0.0387939

Alignment:

DHDASCTCATTAWVVHV
-----TTATWAWCTAA

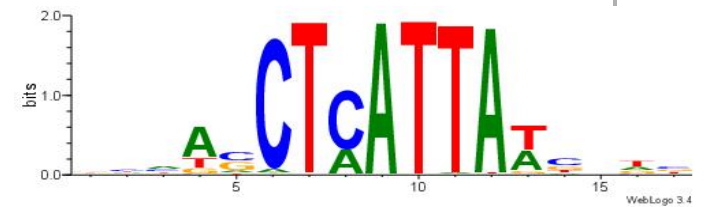
Original motif

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:

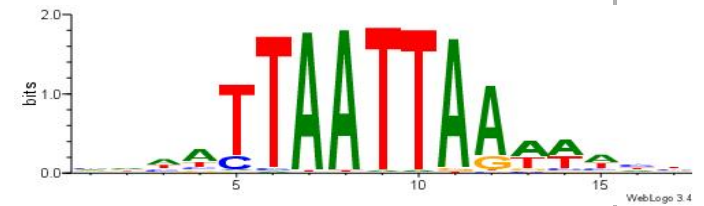
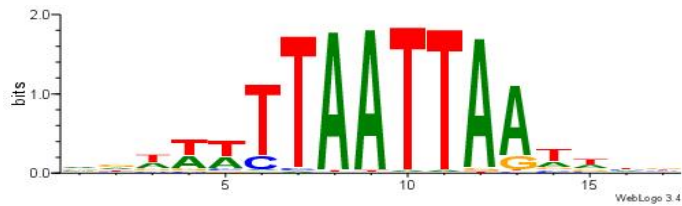
VDWWWTTAATTAATDHB
--TTATWAWCTAA----

Original motif

Consensus sequence: VDWWWTTAATTAATDHB

Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



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

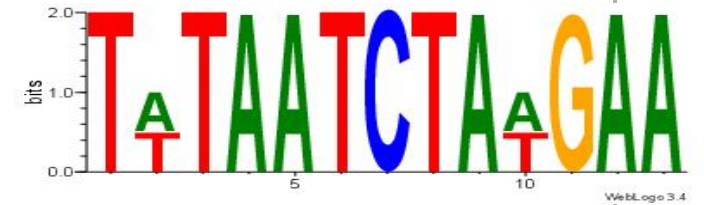
Original motif

Consensus sequence: TTCWTAGATTAWA



Reverse complement motif

Consensus sequence: TWTAATCTAWGAA



Best Matches for Motif ID 19 (Highest to Lowest)

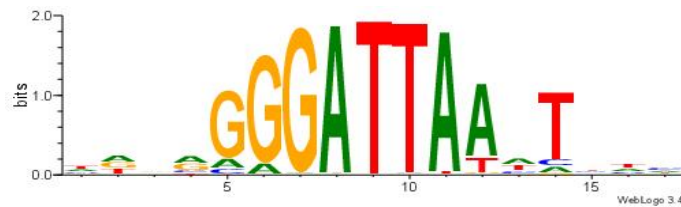
Motif ID:	UP00208
Motif name:	Obox5_2284.1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0233931

Alignment:

DHHAHTTAATCCCKVDH
----TWTAATCTAWGAA

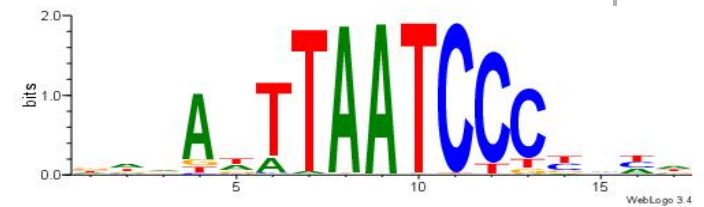
Original motif

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:

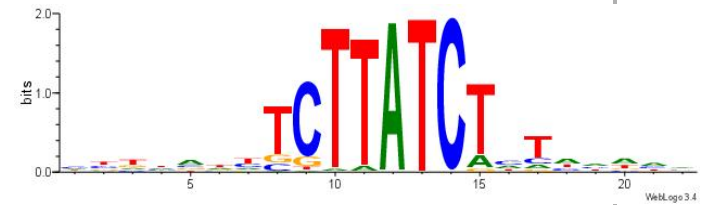
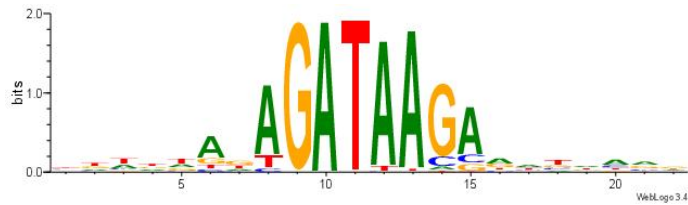
HBHDVHDTCTTATCTHTDDHDV
-----TWTAATCTAWGAA--

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: Forward
 Position number: 5
 Number of overlap: 13
 Similarity score: 0.026815

Alignment:
 VWBAHTTAATCCCTVKB
 ----TWTAATCTAWGAA

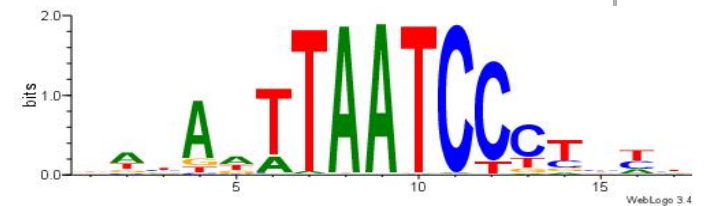
Original motif

Consensus sequence: VRVAGGGATTAAHTVWV



Reverse complement motif

Consensus sequence: VWBAHTTAATCCCTVKB



Motif ID: [UP00188](#)

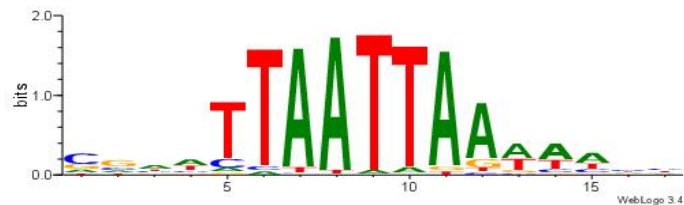
Motif name: Lmx1a
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.02879

Alignment:

BDWWTTAATTAHHVG
 -TTCWTAGATTAWA---

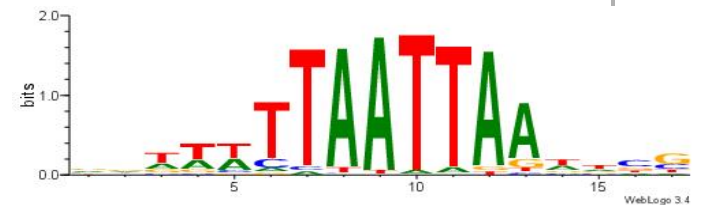
Original motif

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: Backward
 Position number: 2
 Number of overlap: 13

Similarity score: 0.028848

Alignment:

AHAADCGGATTAWHB
-TTCWTAGATTAWA-

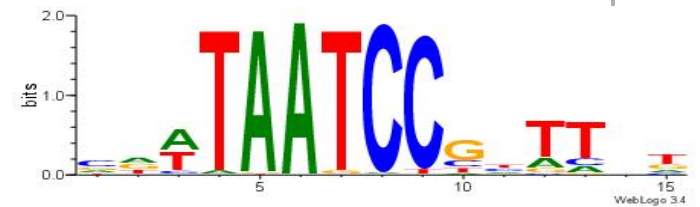
Original motif

Consensus sequence: AHAADCGGATTAWHB



Reverse complement motif

Consensus sequence: BHWTAATCCGDTTHT



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

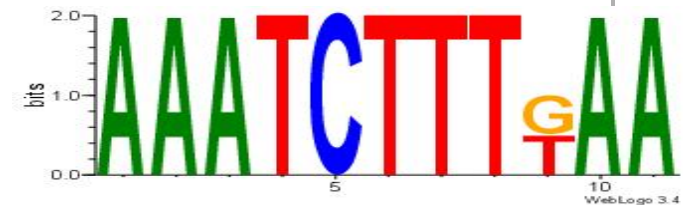
Original motif

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

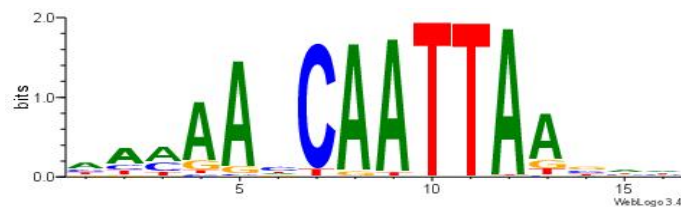
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0251004

Alignment:

HAMAAHCAATTAABHH
--AAATCTTTYAA---

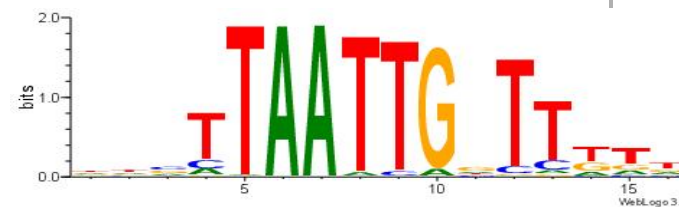
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH



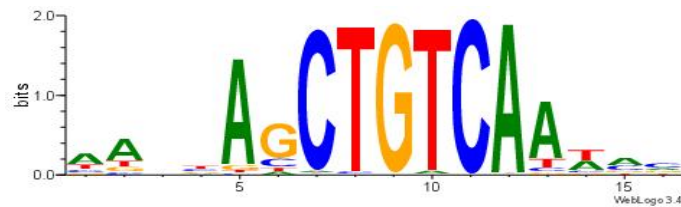
Motif ID: [UP00258](#)
Motif name: Tgif2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0274736

Alignment:

AABBAGCTGTCAAWVV
--AAATCTTTYAA---

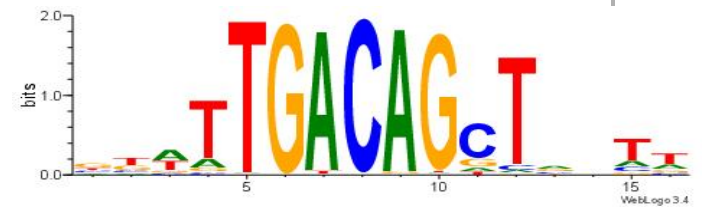
Original motif

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:

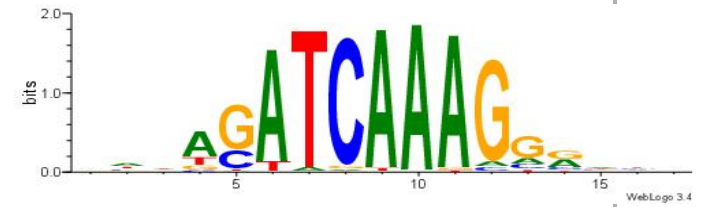
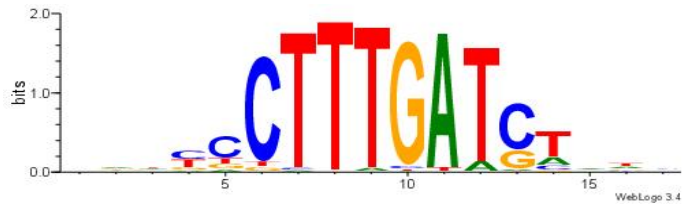
VDDAGATCAAAGGKDDD
-----TTMAAAGATTT-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

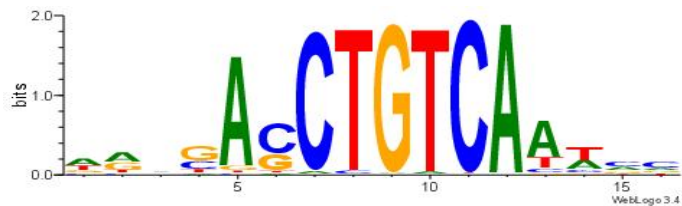


Motif ID: [UP00203](#)
 Motif name: Pknox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0285392

Alignment:
 DRVSASCTGTCAAWVV
 --AAATCTTTYAA---

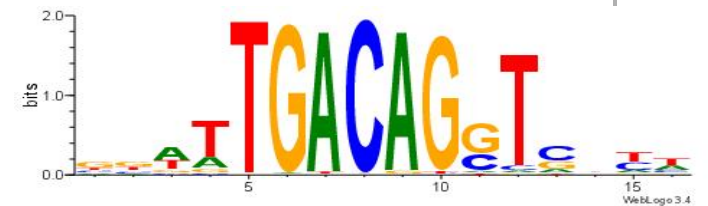
Original motif

Consensus sequence: DRVSASCTGTCAAWVV



Reverse complement motif

Consensus sequence: VVWTTGACAGSTSBKD



Motif ID: [UP00186](#)

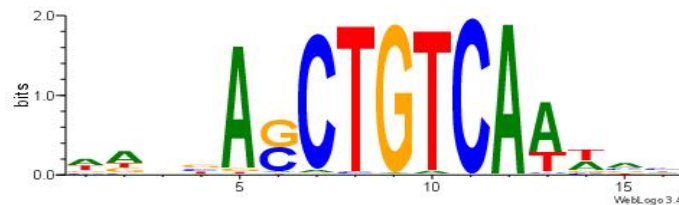
Motif name: Meis1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0294621

Alignment:

WAVBASCTGTCAAWVH
 --AAATCTTTYAA---

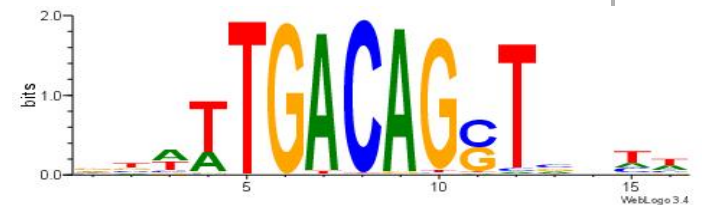
Original motif

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



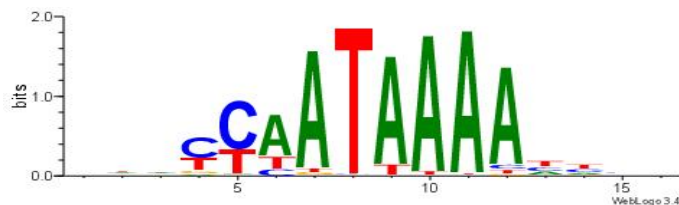
Best Matches for Motif ID 21 (Highest to Lowest)

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-----

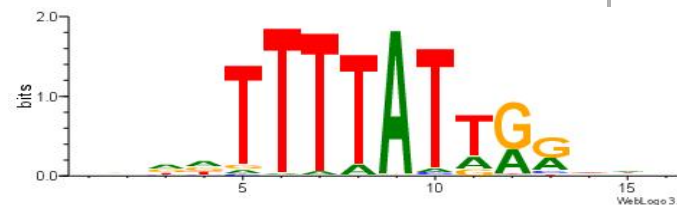
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



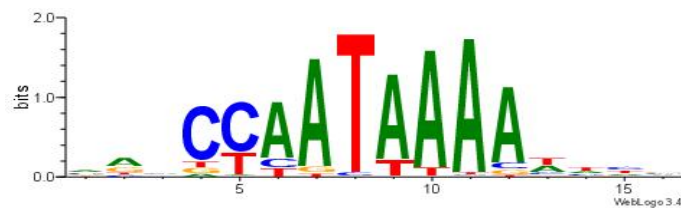
Motif ID: [UP00134](#)
Motif name: Hoxb13
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 6
Similarity score: 0.00902808

Alignment:

```
VRHCCAATAAAWHHV  
-----ATAAAA-----
```

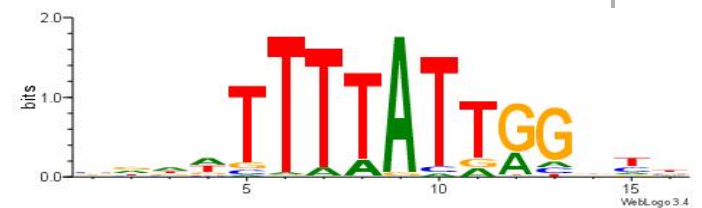
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB

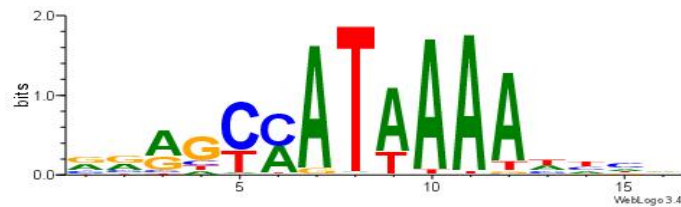


Motif ID: [UP00207](#)
Motif name: Hoxb9
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5

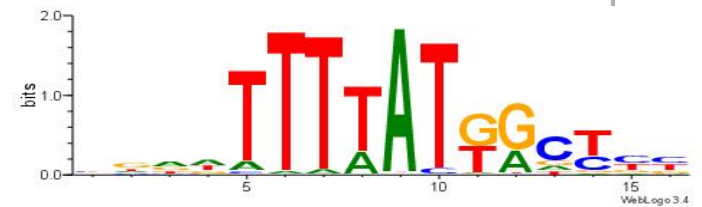
Number of overlap: 6
Similarity score: 0.00908997

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

Original motif
Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif
Consensus sequence: HDHHTTTTATRGCKMV



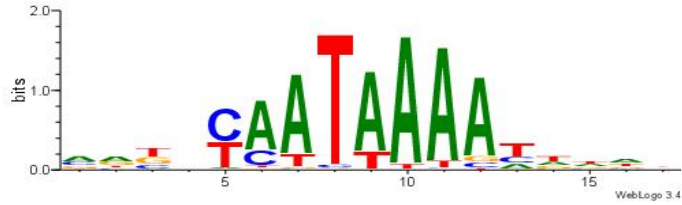
Motif ID: [UP00121](#)
Motif name: Hoxd10
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0141617

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

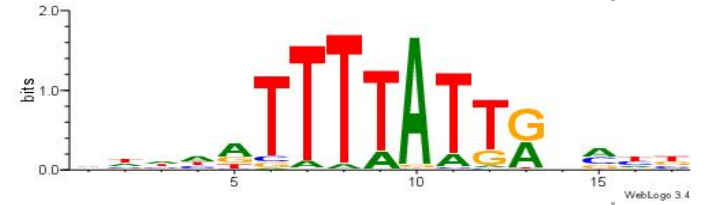
Original motif

Reverse complement motif

Consensus sequence: VDKVYAATAAAATDDDH



Consensus sequence: HDDDATTTTATTKVRDB

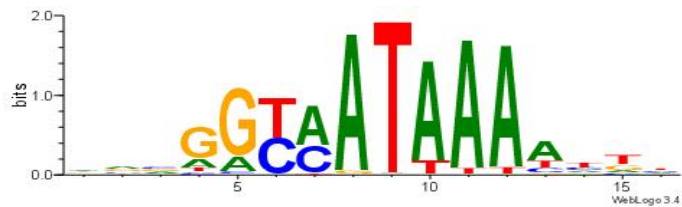


Motif ID: [UP00133](#)
 Motif name: Cdx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0156625

Alignment:
 HRHTTTTATYMCCVBD
 ---TTTTAT-----

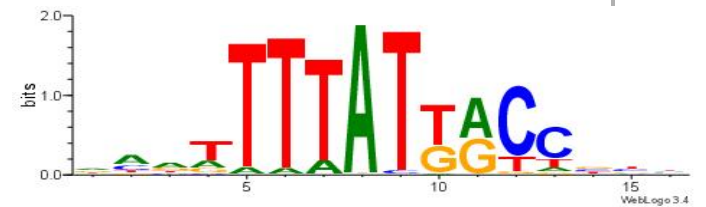
Original motif

Consensus sequence: DVVGGYMATAAAAHKH



Reverse complement motif

Consensus sequence: HRHTTTTATYMCCVBD



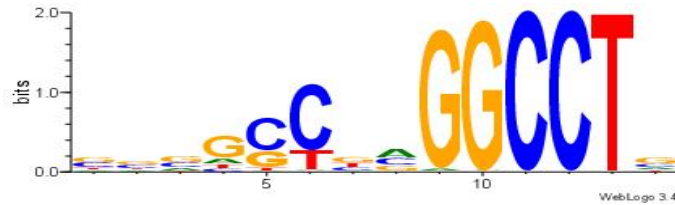
Dataset #: 3

Motif ID: 22

Motif name: Zfx

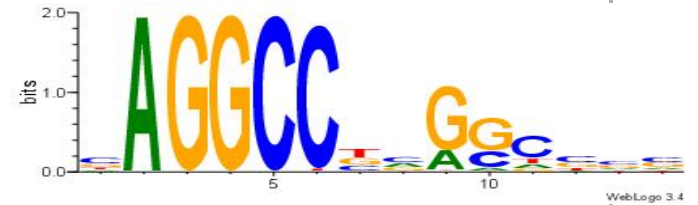
Original motif

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:

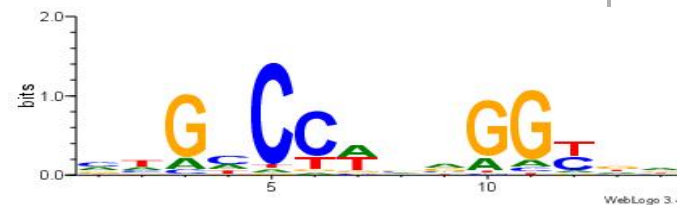
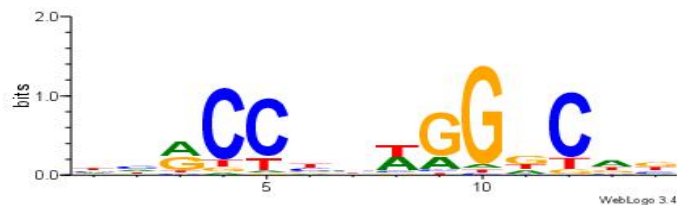
HHRCCBBWGGDCDB
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH

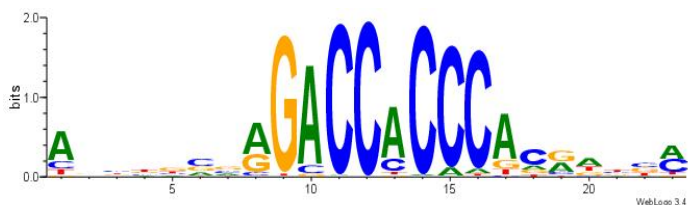


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0603516

Alignment:
 ABBBBVVRGACCACCCACRDBBM
 BBVGCCBVGGCCTV-----

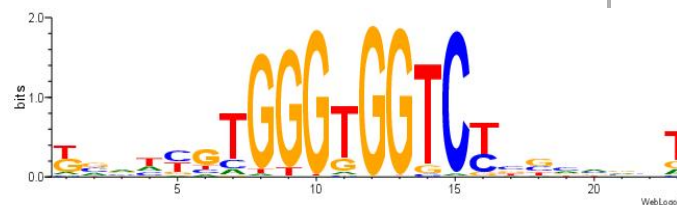
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

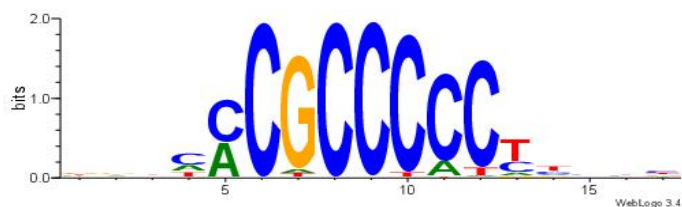
Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0604694

Alignment:

BDHHMCGCCCCCTHVBB
 ---VAGGCCBBGGCVBB

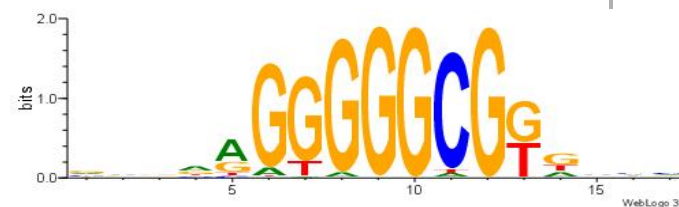
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



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

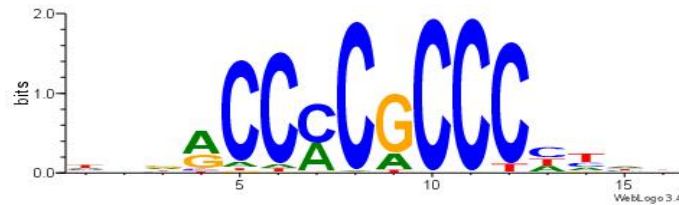
Similarity score: 0.0606067

Alignment:

HBDRCCMCGCCCHHHD
BBVGCCBVGGCTV--

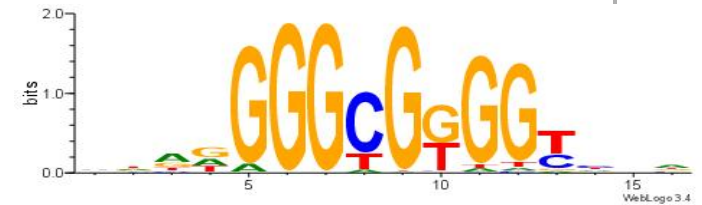
Original motif

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:

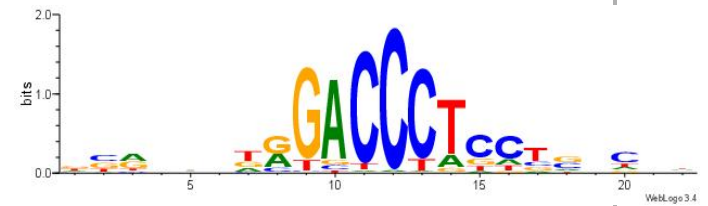
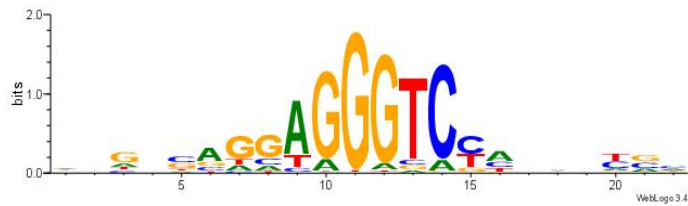
HVGVSAGGAGGGTCYHHHHYVH
-----VAGGCCBBGGCVBB

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: YGCCCCA C



Best Matches for Motif ID 23 (Highest to Lowest)

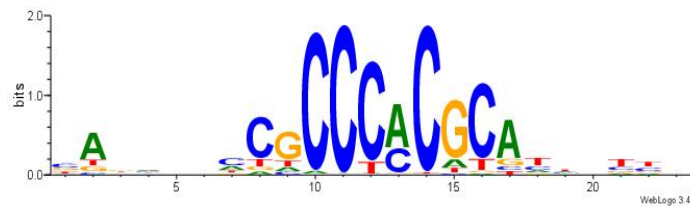
Motif ID:	UP00400
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0

Alignment:

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

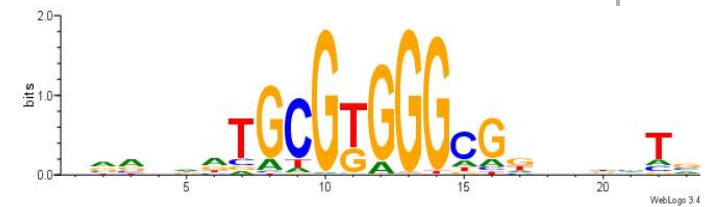
Original motif

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

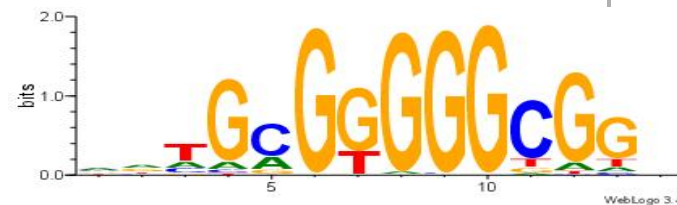
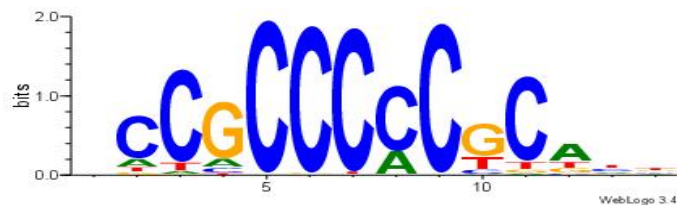
Alignment:
HCCGCCCCCGCAHB
-YCGCCCACGCH--

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH

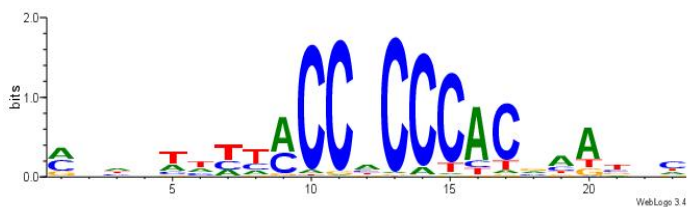


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0262579

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

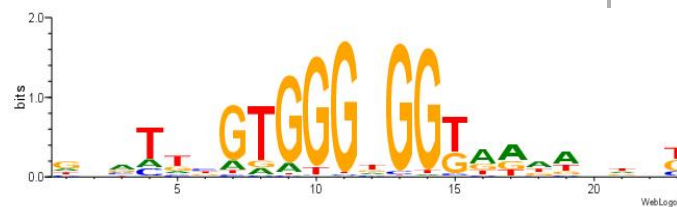
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00540](#)

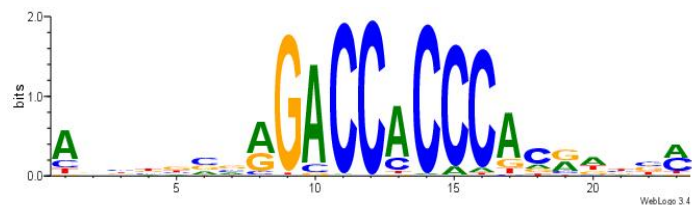
Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0297053

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT
 --HGCGTGGGCGK-----

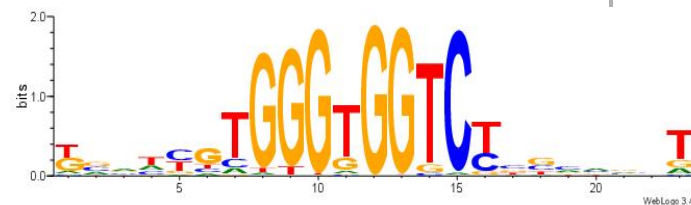
Original motif

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:

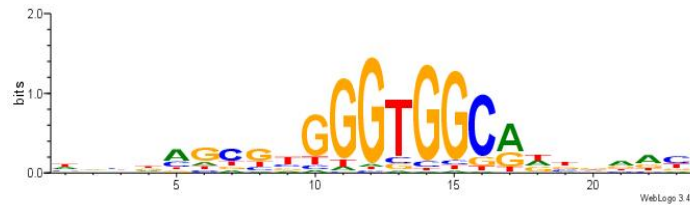
0.0318144

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
----HGCGTGGGCGK-----

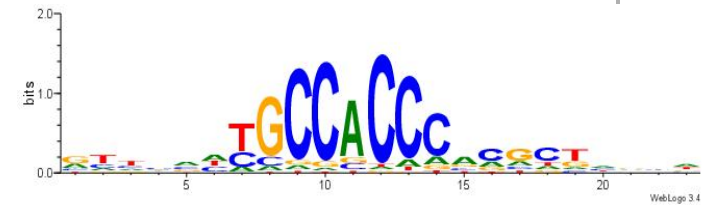
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



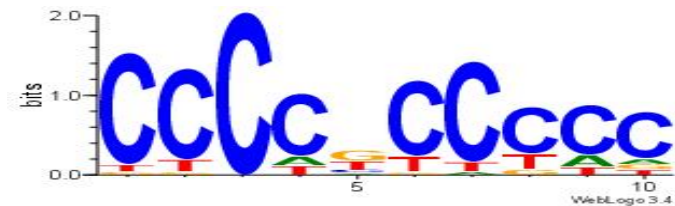
Dataset #: 3

Motif ID: 24

Motif name: SP1

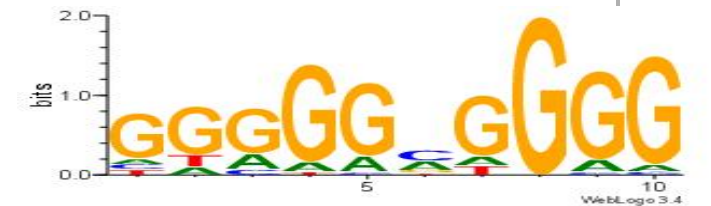
Original motif

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:

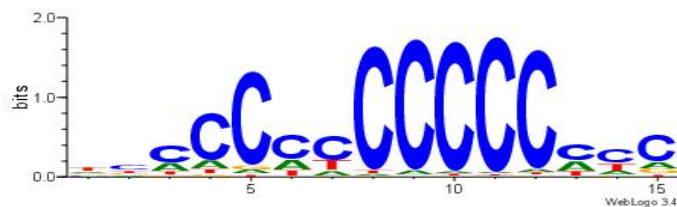
Original Motif

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

Alignment:
 DBCCCCCCCCCMYC
 --CCCCKCCCCC---

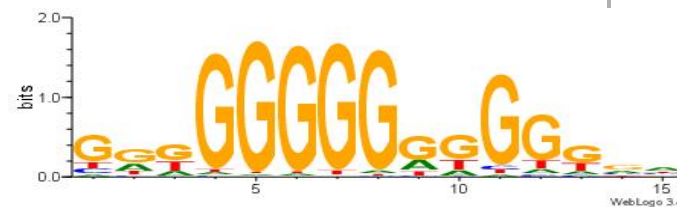
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



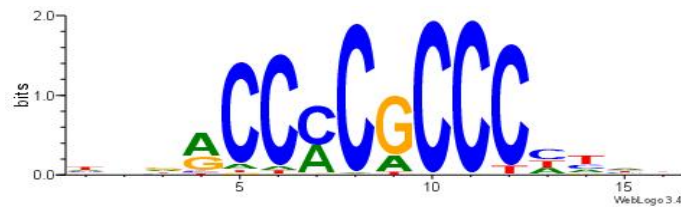
Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0303207

Alignment:

HBDRCCMCGCCCHHHD
----CCCCKCCCC--

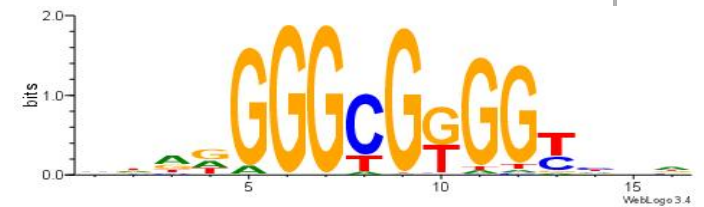
Original motif

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:

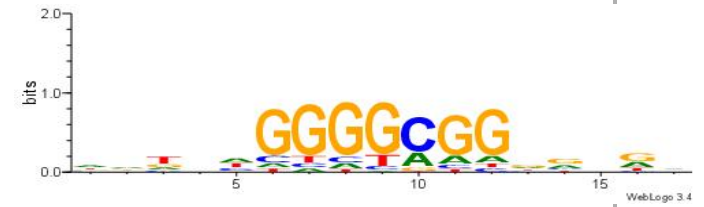
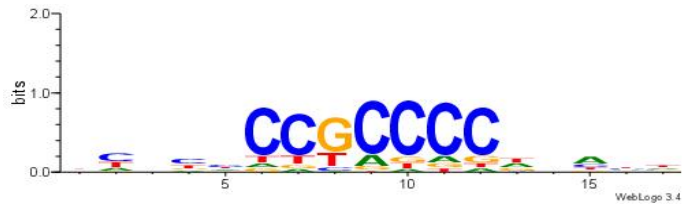
HHHHDGGGGCGGDBHDV
----GGGGYGGGG----

Original motif

Consensus sequence: BHHBHCCGCCCDHHHH

Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV

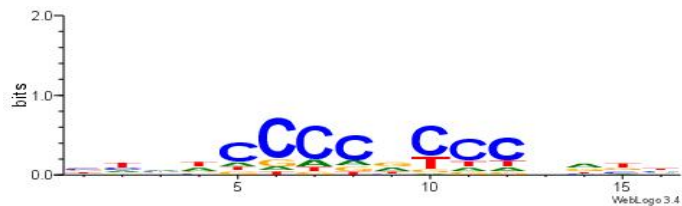


Motif ID: [UP00099](#)
 Motif name: Ascl2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0340973

Alignment:
 HVDVGGGGHGGGGDBHB
 --GGGGGYGGGG----

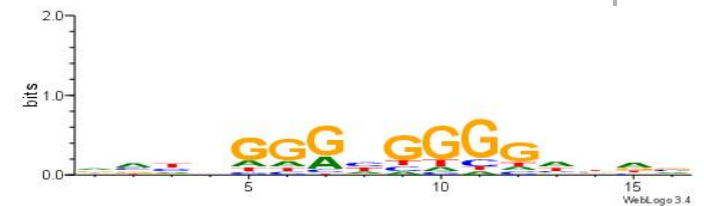
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGGHGGGGDBHB



Motif ID: [UP00043](#)

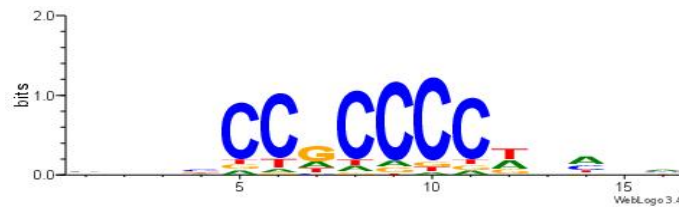
Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH
 ----GGGGYGGGG--

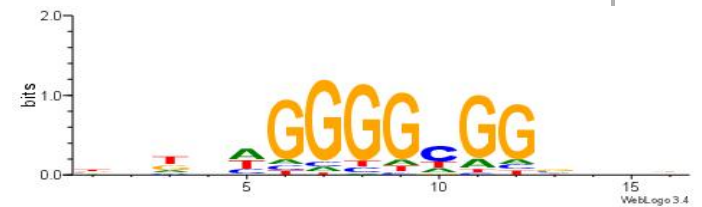
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



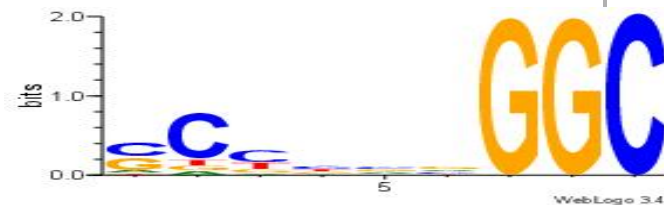
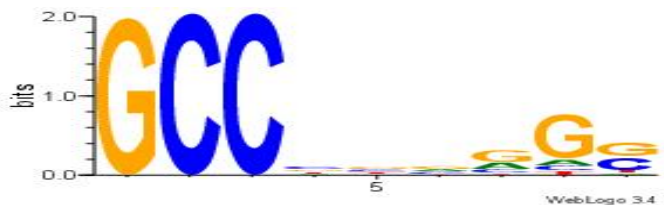
Dataset #: 3 Motif ID: 25 Motif name: TFAP2A

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

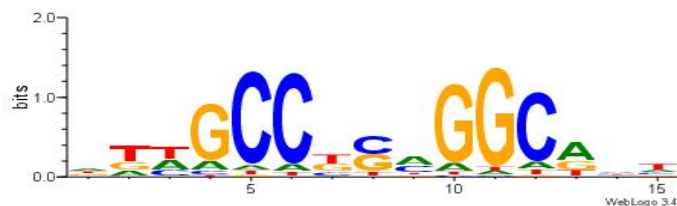
Alignment:

```

HHKGCCYSRGGCWAD
---GCCBBVRGS---
  
```

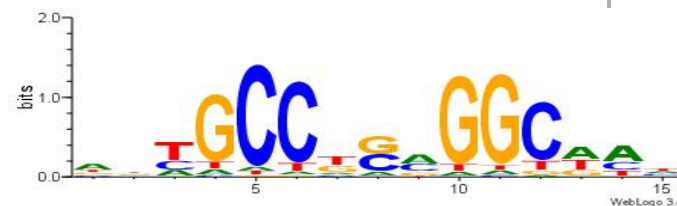
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



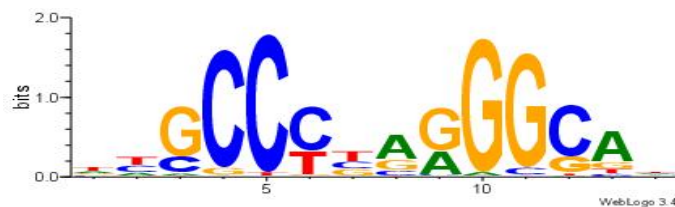
Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 9
 Similarity score: 0.0150447

Alignment:

DYGCCYBARGGCAH
 --GCCBBVRGS---

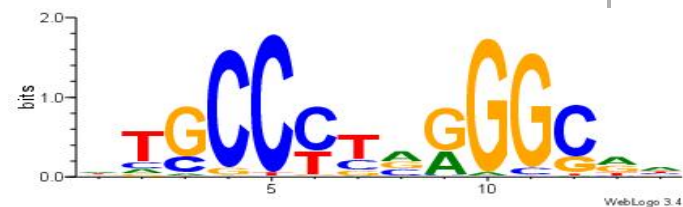
Original motif

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---

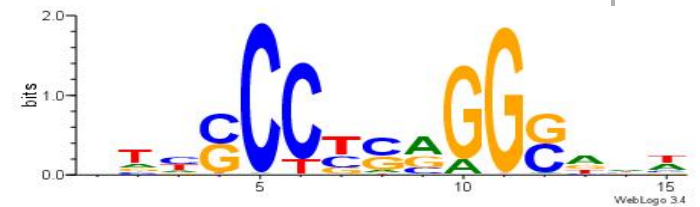
Original motif

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



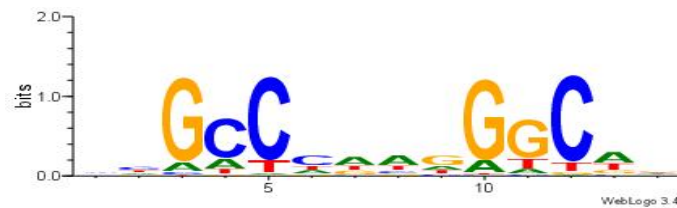
Motif ID: [UP00087](#)
Motif name: Tcfap2c_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0170259

Alignment:

BHGCCCDAGGGCWD
--GCCBBVRGS---

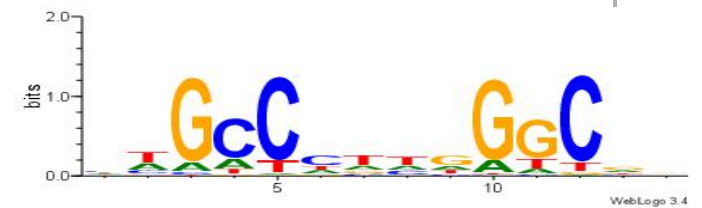
Original motif

Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif

Consensus sequence: HWGCCCTDGGGCDB



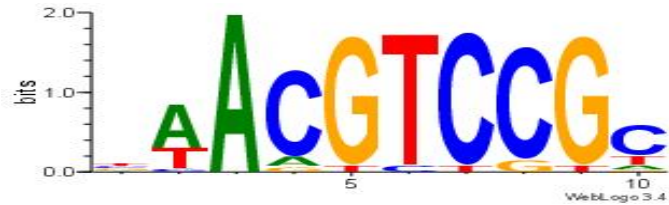
Dataset #: 3

Motif ID: 26

Motif name: MIZF

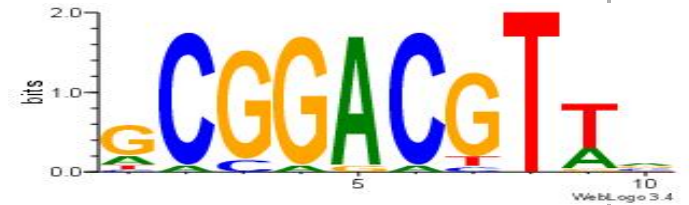
Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



Best Matches for Motif ID 26 (Highest to Lowest)

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

Alignment:

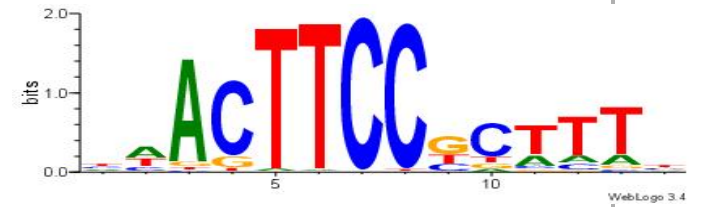
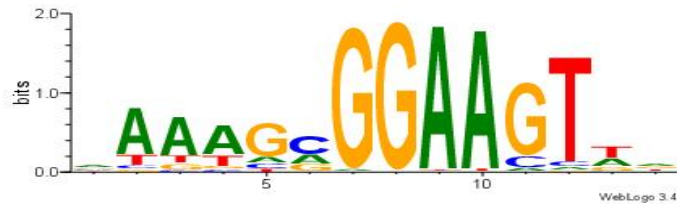
```
DWACTTCCRCTTTB  
BAACGTCCGC-----
```

Original motif

Consensus sequence: VAAAGMGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



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

Alignment:
 DWACTTCCRSDTWV
 BAACGTCCGC-----

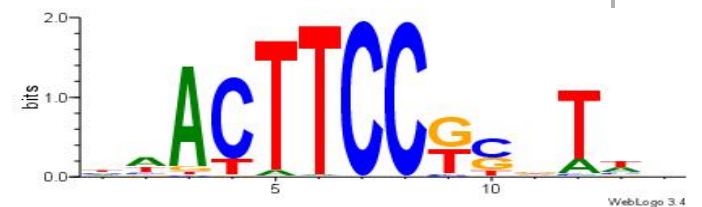
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)

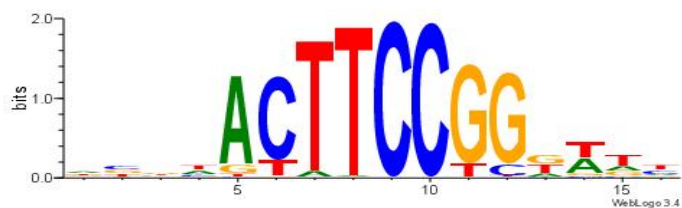
Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWTH
 --BAACGTCCGC----

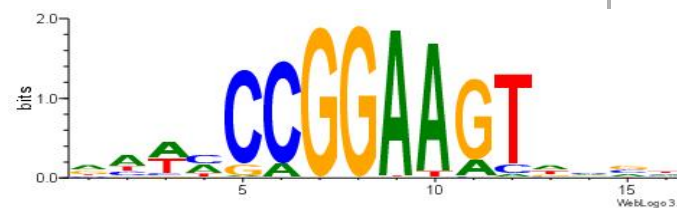
Original motif

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

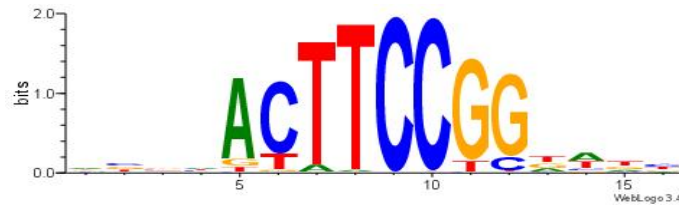
Similarity score: 0.0128348

Alignment:

DBBHACTTCCGGDWDB
--BAACGTCCGC----

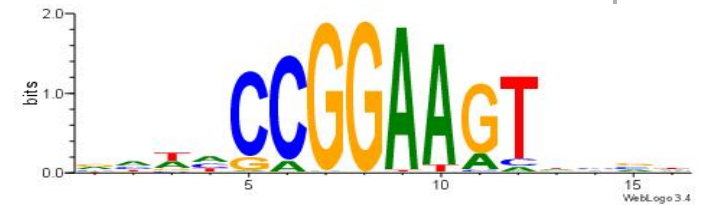
Original motif

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:

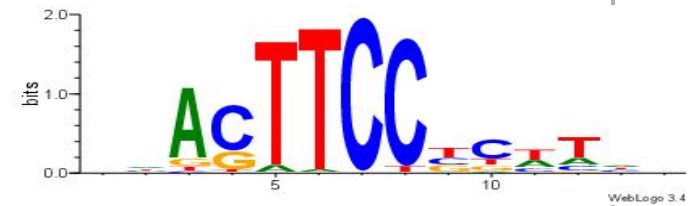
HDACTTCCBCWTDV
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



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

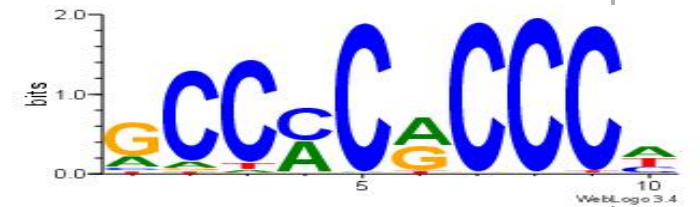
Original motif

Consensus sequence: DGGGYGKGGC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 27 (Highest to Lowest)

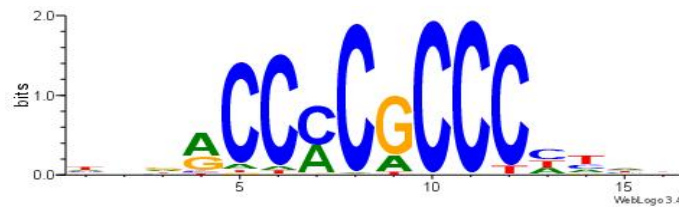
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:

DHHDGGGCGRGGKHBH
---DGGGYGKGGC---

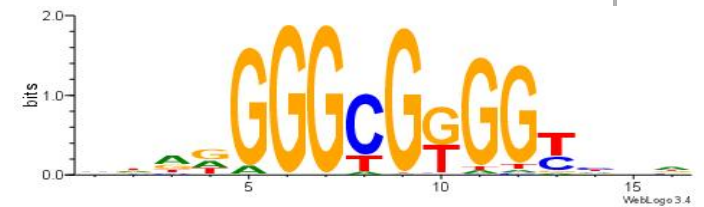
Original motif

Consensus sequence: 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:

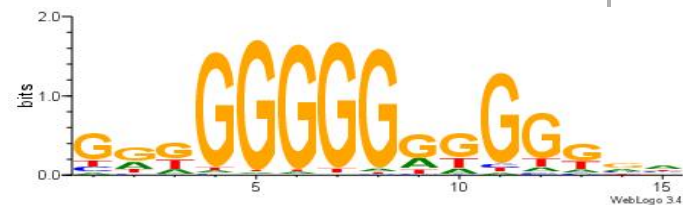
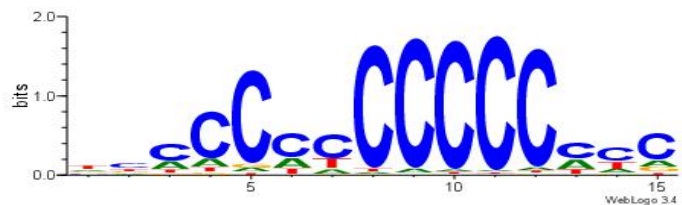
DBCCCCCCCCMYC
---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

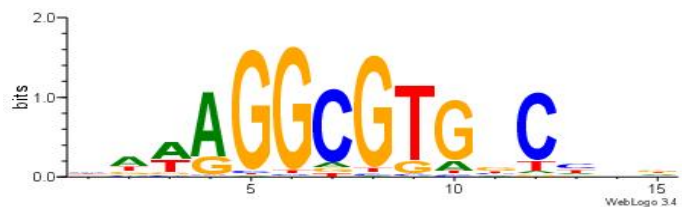
Consensus sequence: GKRGGGGGGGGGGBD



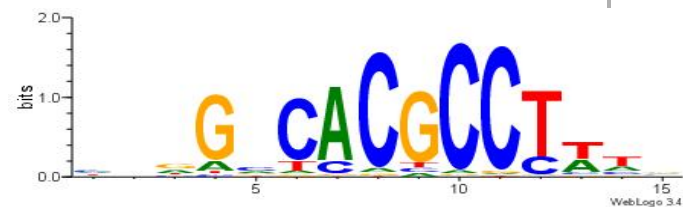
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0186791

Alignment:
 BDWAGGCGTGBCHHD
 --DGGGYGKGGC---

Original motif
 Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif
 Consensus sequence: HHDGBCACGCCTWDB



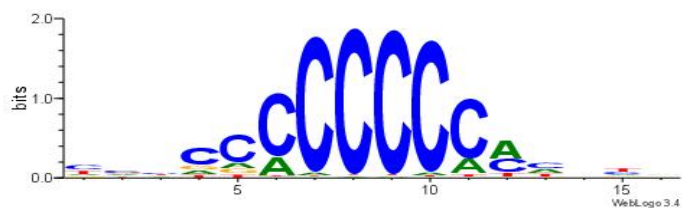
Motif ID: [UP00022](#)

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----

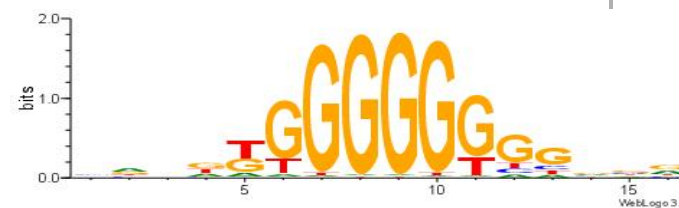
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



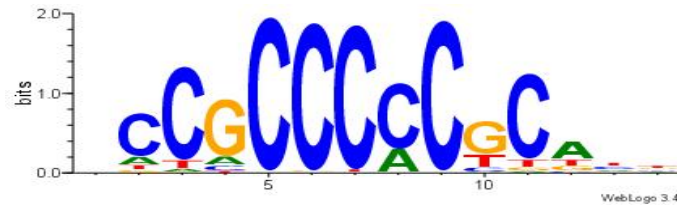
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.0249586

Alignment:

VHTGCGGGGGCGGH
GCCYCMCCD-----

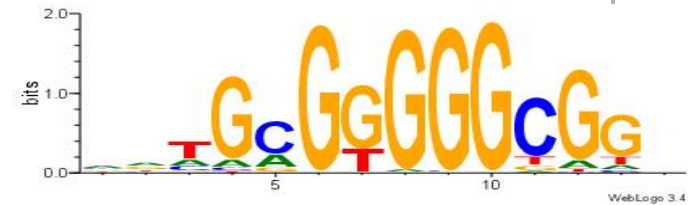
Original motif

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)

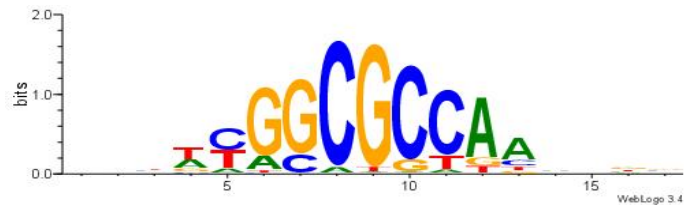
Motif ID:	UP00001
Motif name:	E2F2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

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

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

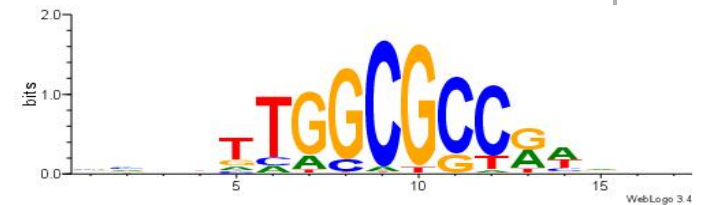
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD



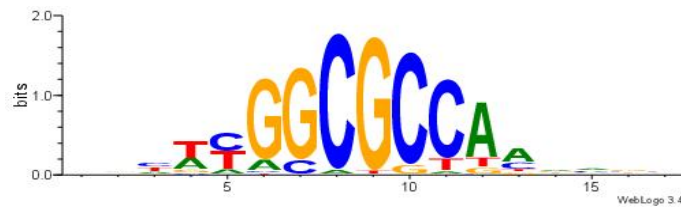
Motif ID: [UP00003](#)
Motif name: E2F3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.00182028

Alignment:

HBHWYGGCGCCAMDVB
-----GCGCSAAA----

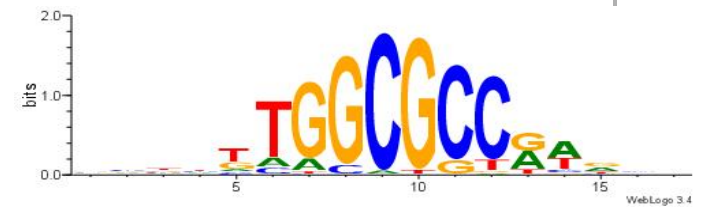
Original motif

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:

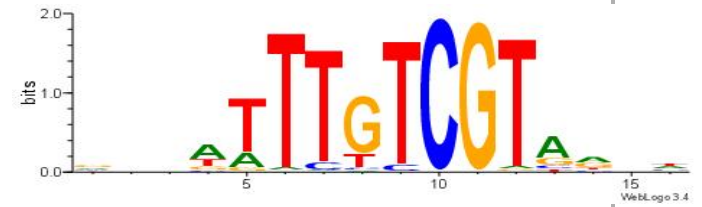
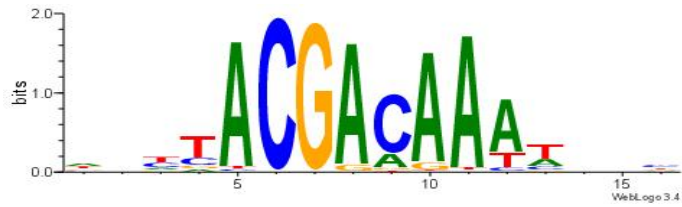
DDHTACGACAAWDDDB
-----GCGCSAAA-----

Original motif

Consensus sequence: DDHTACGACAAWDDDB

Reverse complement motif

Consensus sequence: BHDWTTTGTCTAHDDB

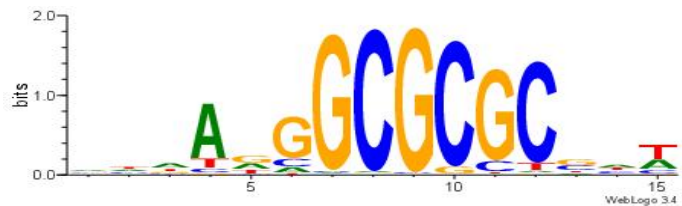


Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0275636

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

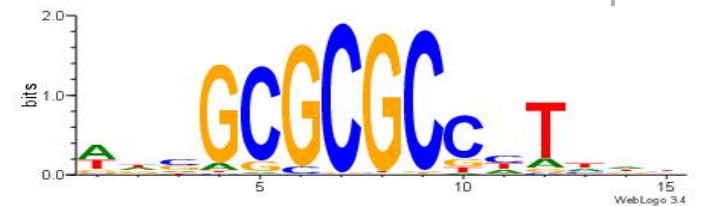
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

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



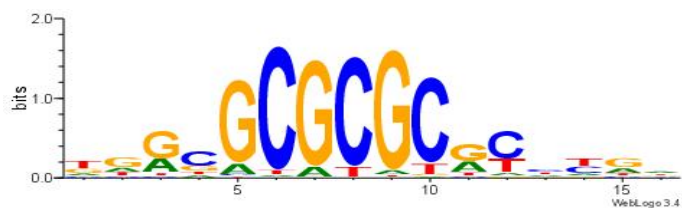
Motif ID: [UP00065](#)

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

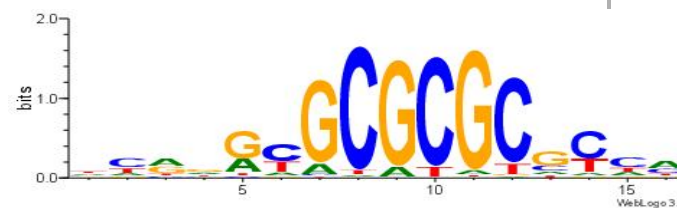
Original motif

Consensus sequence: DDGCGCGCGRCHYRD



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



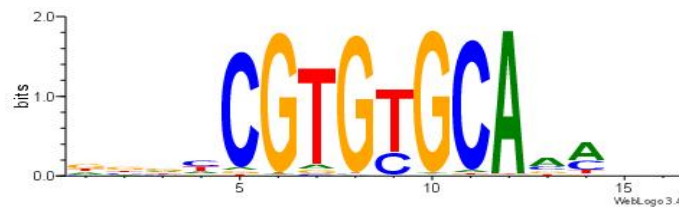
Best Matches for Motif ID 29 (Highest to Lowest)

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

Alignment:
 HDYTTGCACACGDHBH
 -----VCACGTBV--

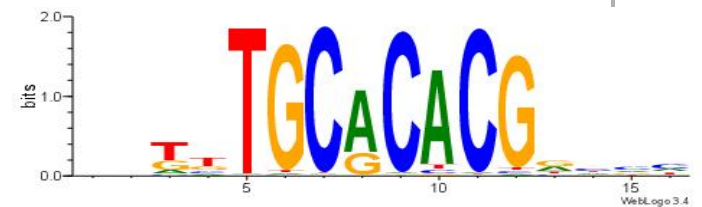
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



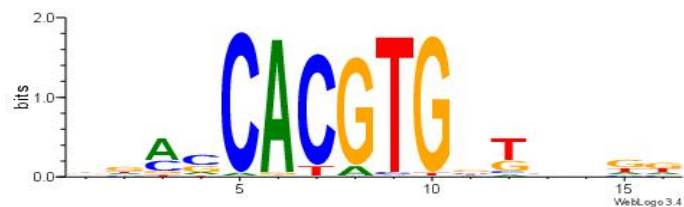
Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000574345

Alignment:

DDASCACGTGBTBVDD
 ---VBACGTGV-----

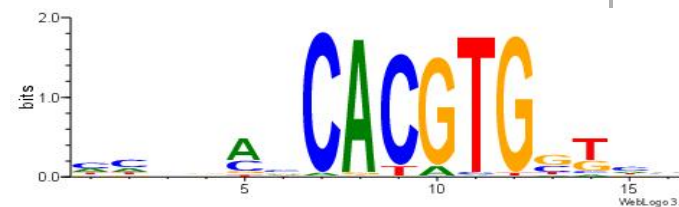
Original motif

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

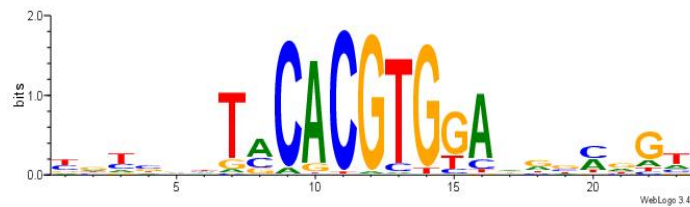
Number of overlap: 8
Similarity score: 0.00642455

Alignment:

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

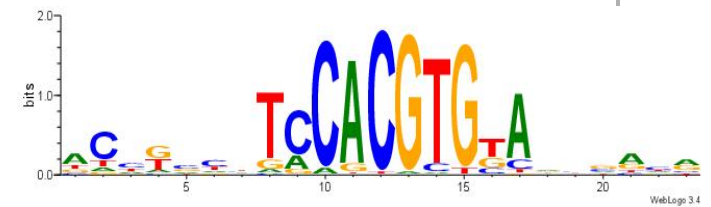
Original motif

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

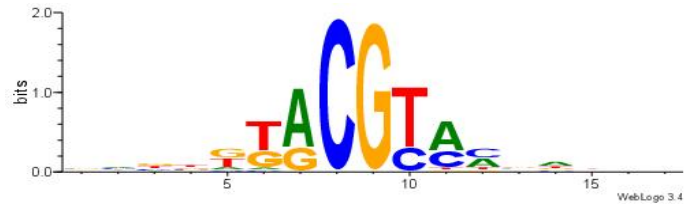
Alignment:

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

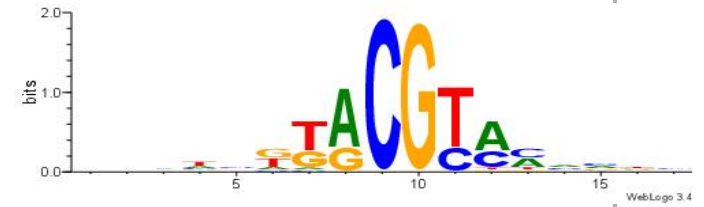
Original motif

Reverse complement motif

Consensus sequence: BHBBKKACGTMMVDBVB



Consensus sequence: BVVDVRYACGTRYVBHB



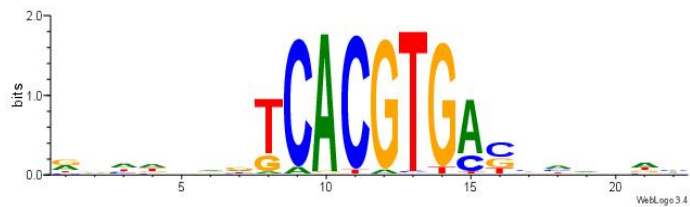
Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.014006

Alignment:

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

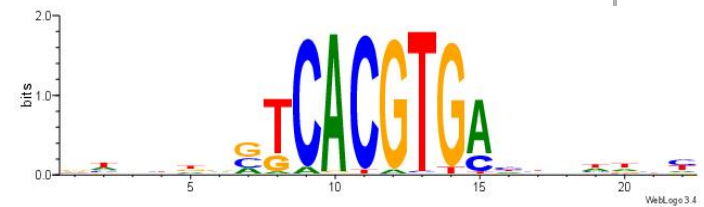
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDHMM



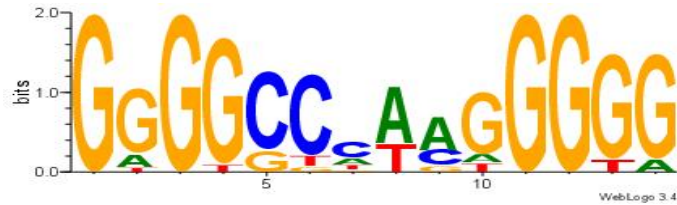
Dataset #: 3

Motif ID: 30

Motif name: PLAG1

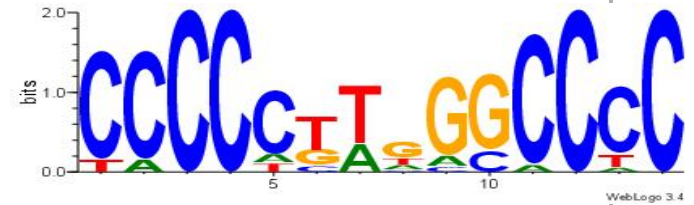
Original motif

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:

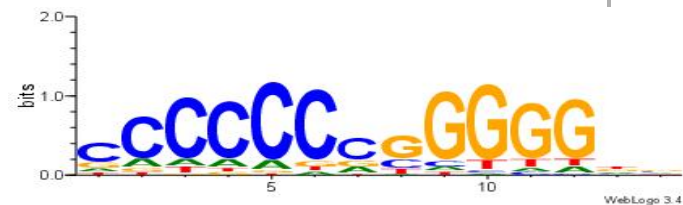
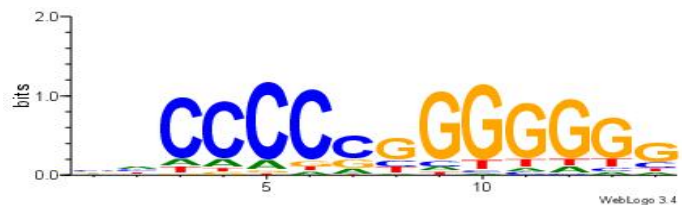
```
CCCCCCCGGGGHB  
CCCCTTGGGCCC
```

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

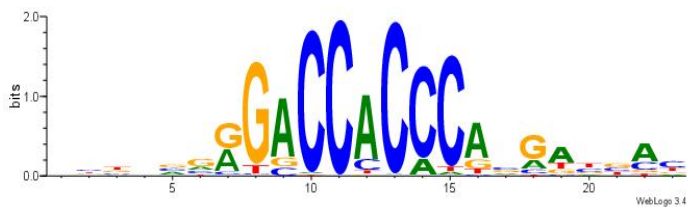
Alignment:

```

BTBVTCTGGGTGGTCMVVDVBB
-----CCCCCTTGGGCCCC
  
```

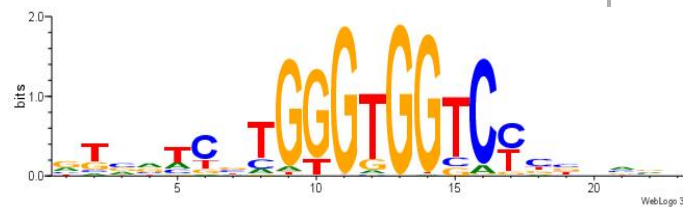
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



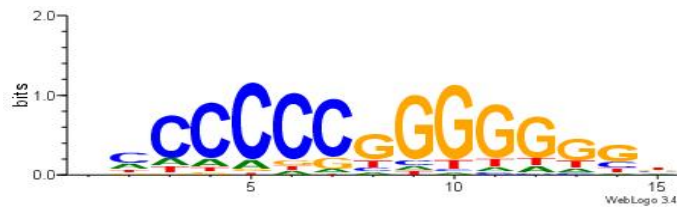
Motif ID: [UP00057](#)
 Motif name: Zic2_primary

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

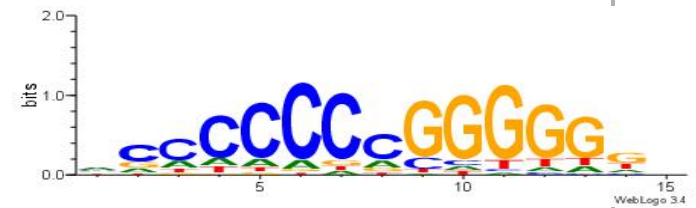
Original motif

Consensus sequence: BMCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB



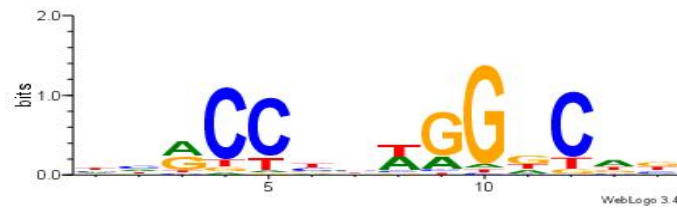
Motif ID: [UP00005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0556785

Alignment:

BDGHCCWBVGGKDH
GGGGCCCAAGGGGG

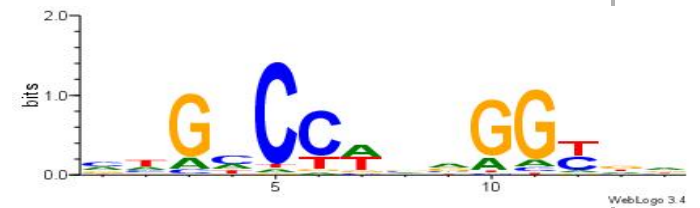
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



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:

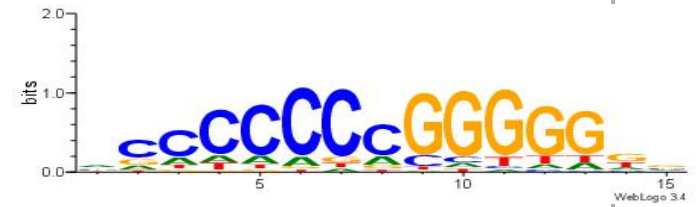
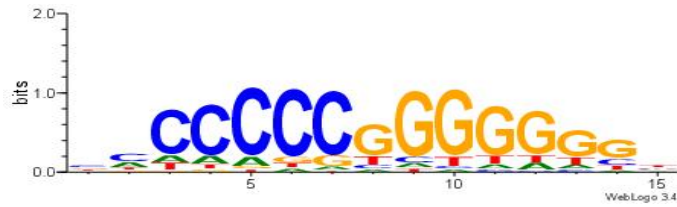
BMCCCCCGGGGGGB
-CCCCCTTGGGCCCC

Original motif

Consensus sequence: BMCCCCCGGGGGGB

Reverse complement motif

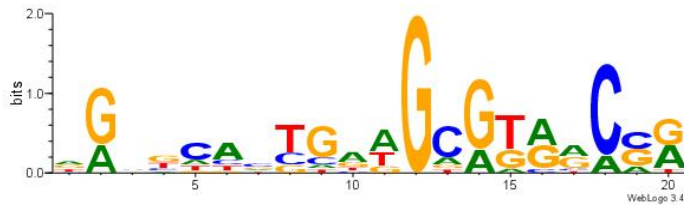
Consensus sequence: VCCCCCGGGGGRB



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

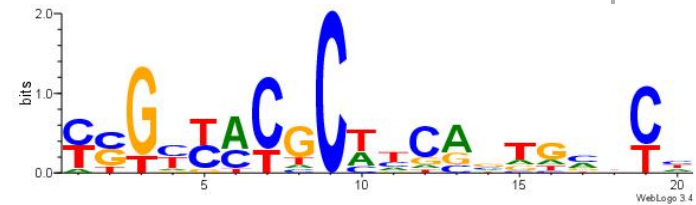
Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR



Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBBCD



Best Matches for Motif ID 31 (Highest to Lowest)

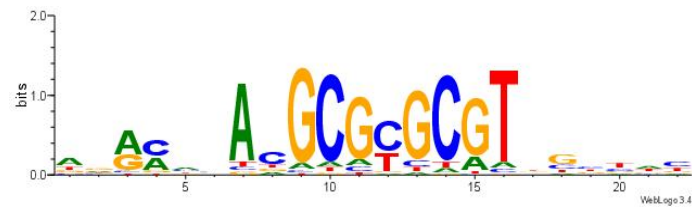
Motif ID:	UP00526
Motif name:	Foxn1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	20
Similarity score:	0.0499537

Alignment:

DDRMHBACGCGYGCGTDGBBDB
-DGVBCABTGDWCGKRRCSR-

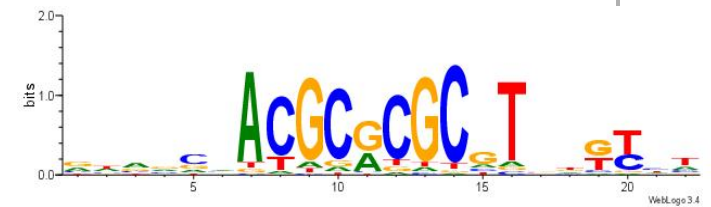
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0520196

Alignment:

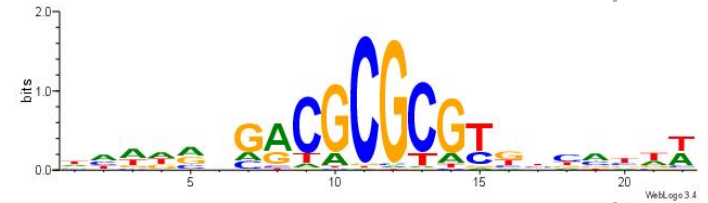
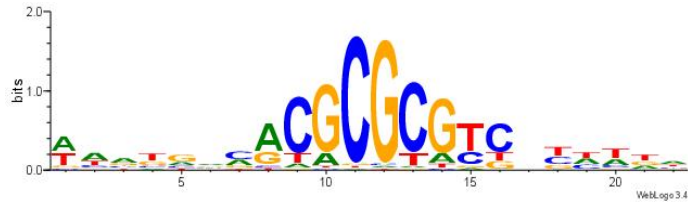
HDWHMHGACGCGCGTRBVVBHW
DGVBCABTGDWCGKRRCSR--

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

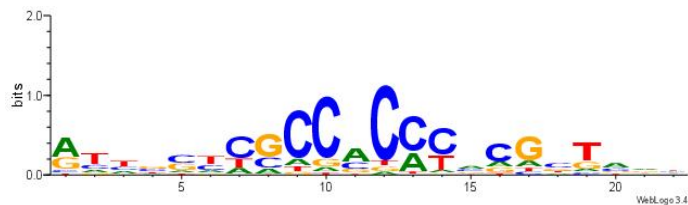
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



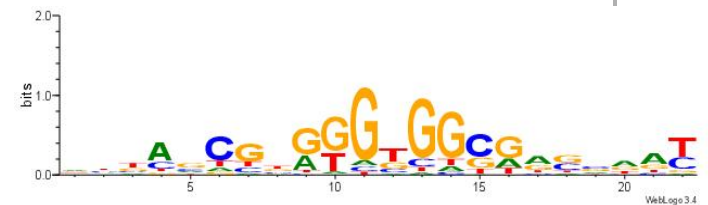
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0542764

Alignment:
 HDBABCGBKRGYGGCGMSBHAK
 -DGVBCABTGDWCGKRRCSR-

Original motif
 Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
 Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00528](#)

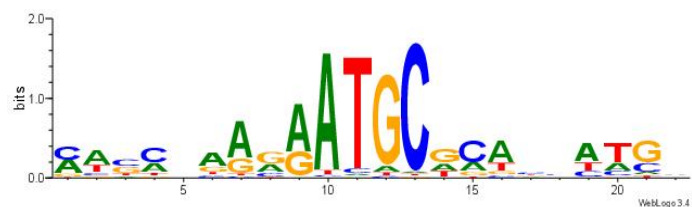
Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0560636

Alignment:

DCATDBTGHGCATKMTTBRSWR
 --MSGKKRCGCWDCABTGBCD

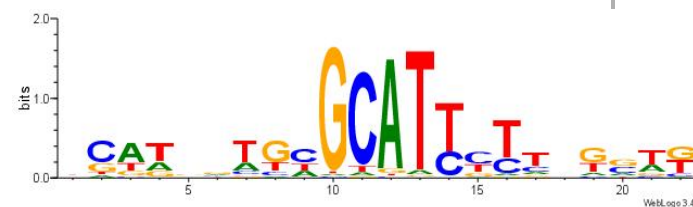
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



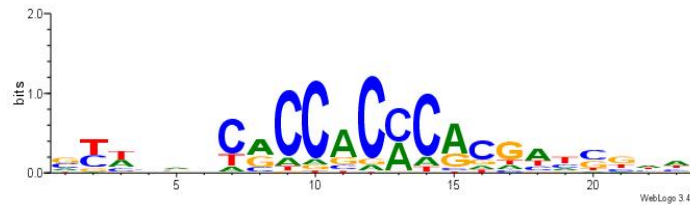
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0595671

Alignment:

```
VYWVVHCRCCACMCACGAHSBHH  
DGVBCABTGDWCGCKRRCR---
```

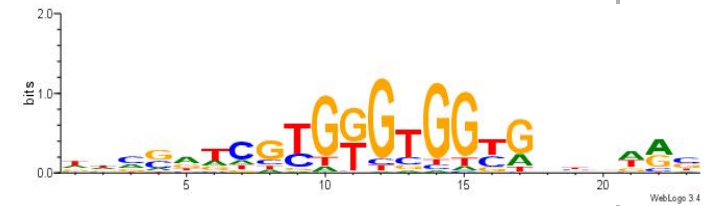
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGBVWMV



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

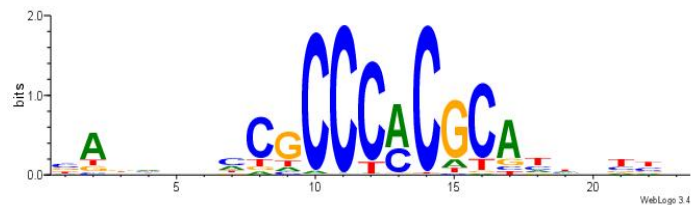
Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB

-----YGCGTG-----

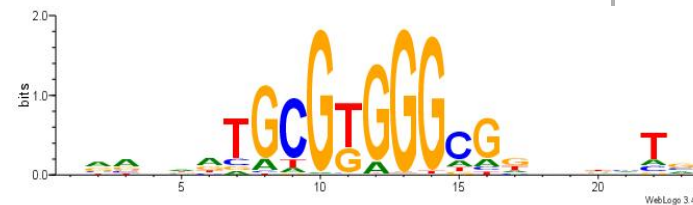
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



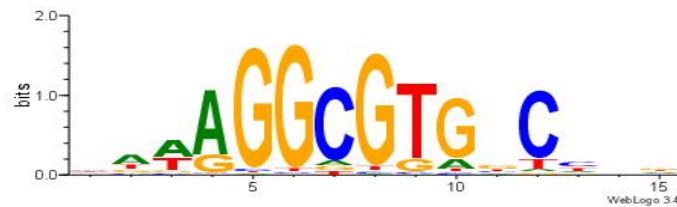
Motif ID: [UP00002](#)
Motif name: Sp4_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 6
Similarity score: 0.00183587

Alignment:

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

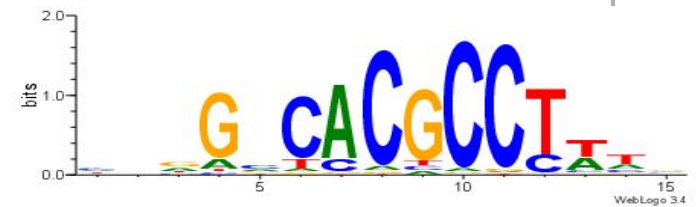
Original motif

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

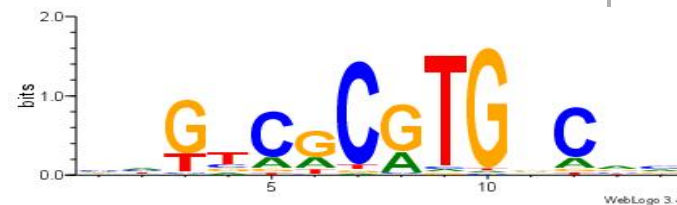
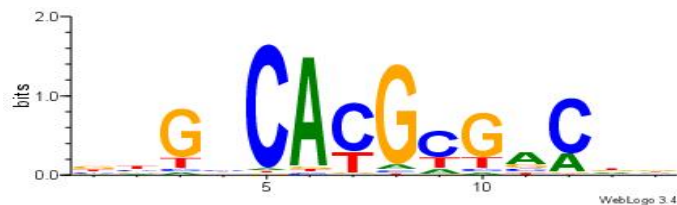
Alignment:
HDGTGCGGTGDCVB
-----YGCGTG-----

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

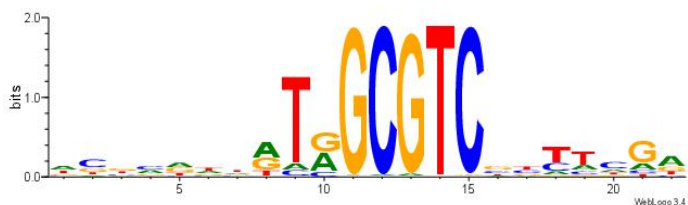
Consensus sequence: HDGTGCGGTGDCVB



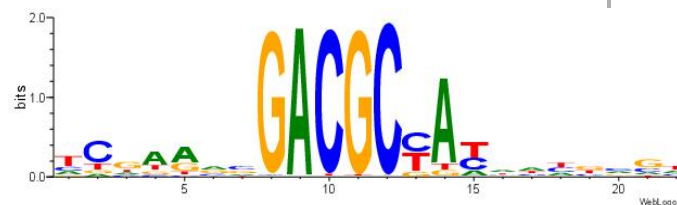
Motif ID: [UP00527](#)
 Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.00526158

Alignment:
 TCDAMVBGACGCMAKDDDDVBBD
 -----CACGCM-----

Original motif
 Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif
 Consensus sequence: TCDAMVBGACGCMAKDDDDVBBD



Motif ID: [UP00042](#)

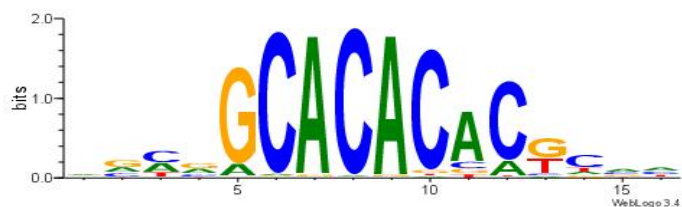
Motif name: Gm397_second
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.00558171

Alignment:

HBGYGTGTGTGCVRVD
 ---YGCGTG-----

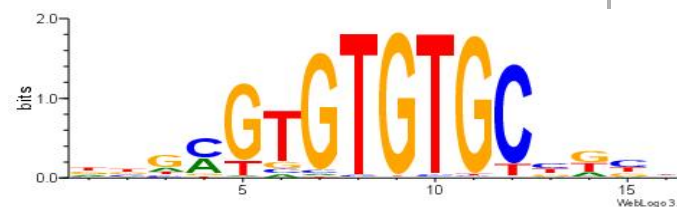
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



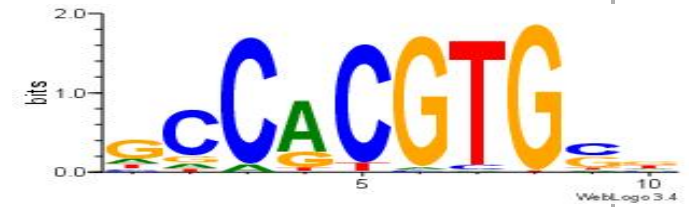
Dataset #: 3 Motif ID: 33 Motif name: Mycn

Original motif

Consensus sequence: HSCACGTGGC

Reverse complement motif

Consensus sequence: GCCACGTGSD



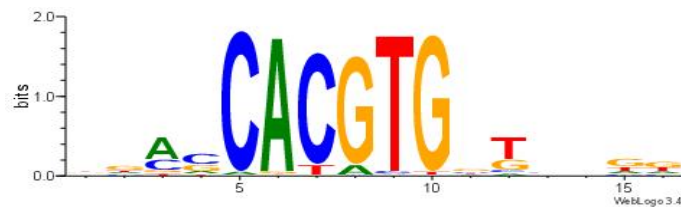
Best Matches for Motif ID 33 (Highest to Lowest)

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-----

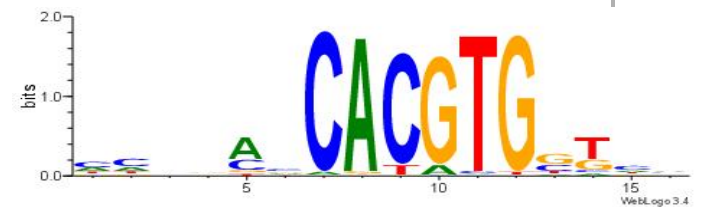
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



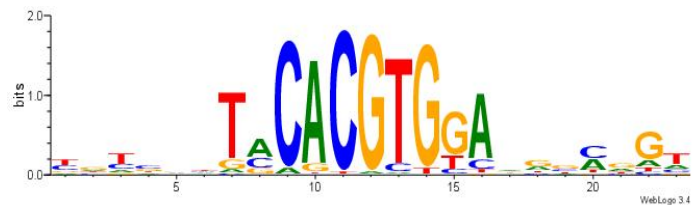
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:

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

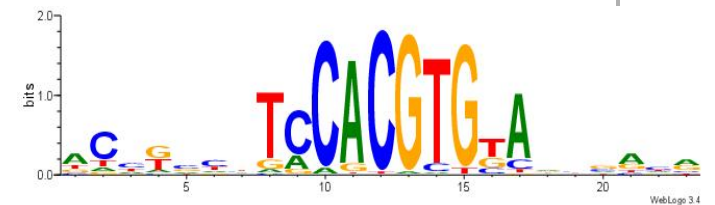
Original motif

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

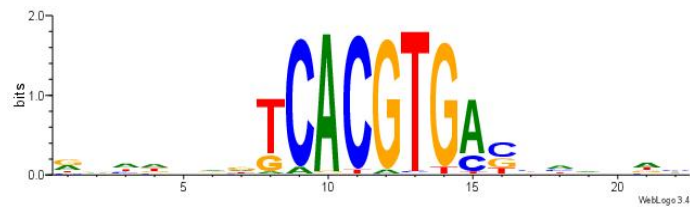
Number of overlap: 10
Similarity score: 0.0132858

Alignment:

DDHBHBSTCACGTGAHBBDHMM
-----GCCACGTGSD-----

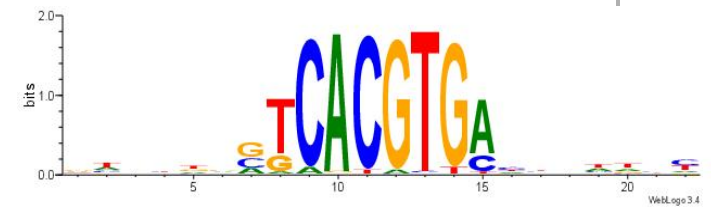
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMM



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

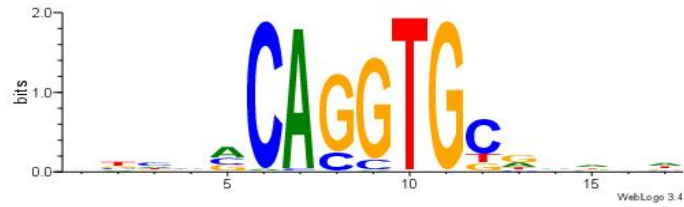
Alignment:

VBHHVCAGGTGCDVDHD
---GCCACGTGSD---

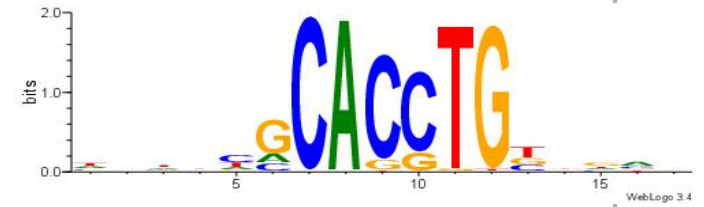
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



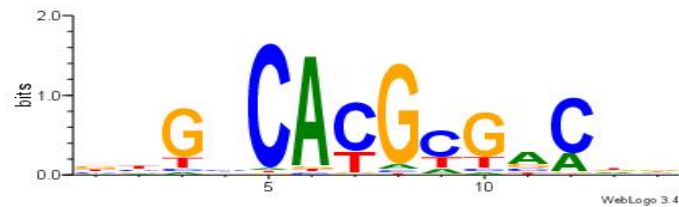
Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0257011

Alignment:

BBGHCACGCGACDD
--HSCACGTGGC--

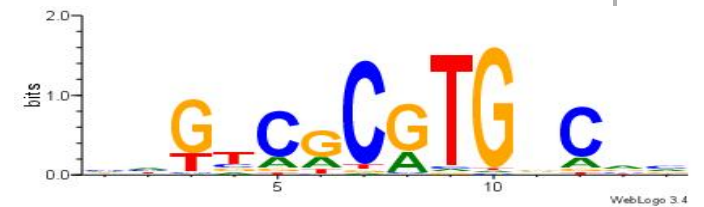
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

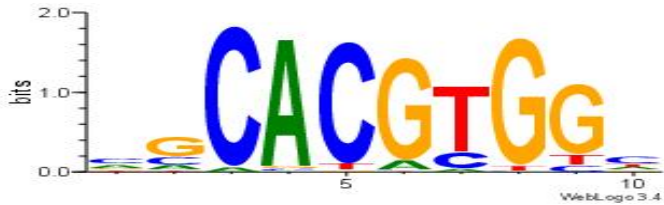
Consensus sequence: HDGTGCGGTGDCVB



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

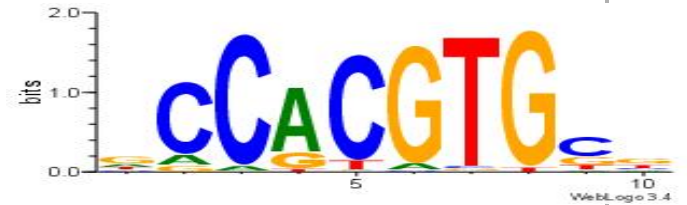
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



Best Matches for Motif ID 34 (Highest to Lowest)

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

Alignment:

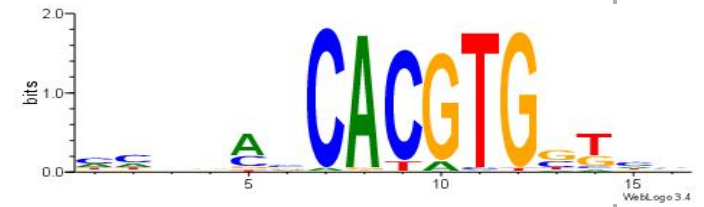
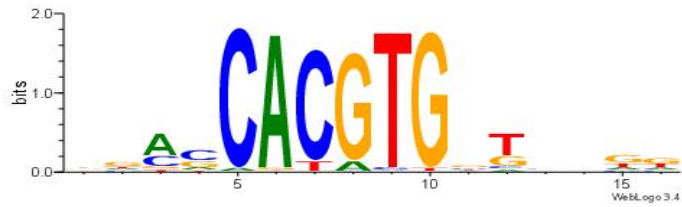
```
DDASCACGTGBTBVDD  
--VGCACGTGGH----
```

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



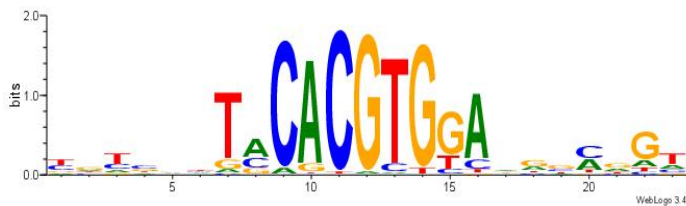
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00631885

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----DCCACGTGCV-----

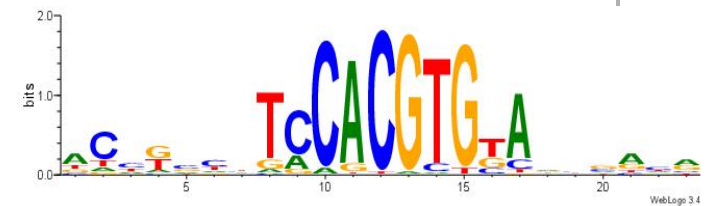
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

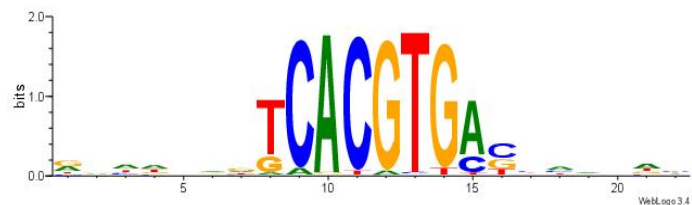
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00821668

Alignment:

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

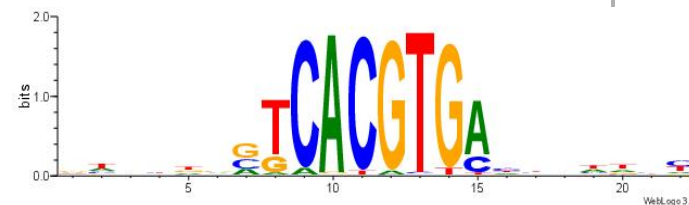
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



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

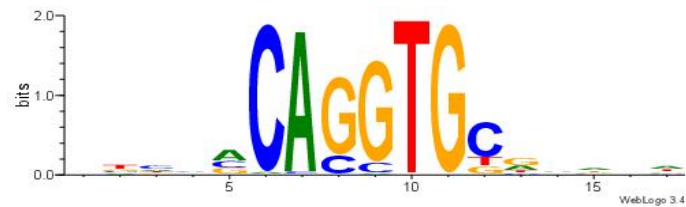
Similarity score: 0.0140005

Alignment:

DHDBHGCACCTGBDDVB
----VGCACGTGGH----

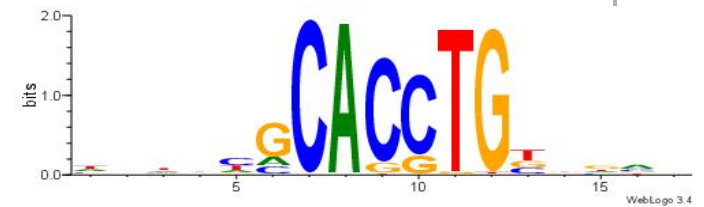
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

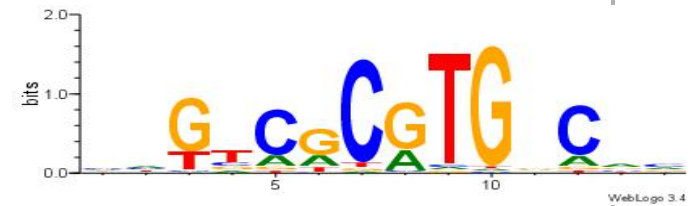
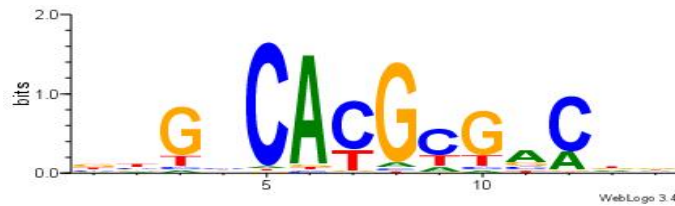
BBGHCACGCGACDD
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



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

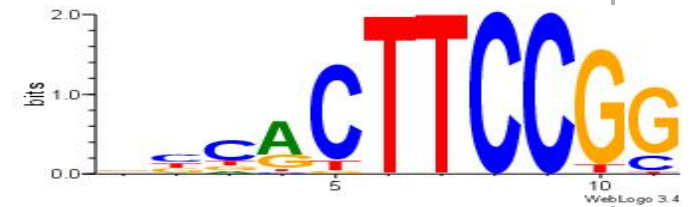
Original motif

Consensus sequence: CCGGAAGTGVV



Reverse complement motif

Consensus sequence: VVCACTTCCGG



Best Matches for Motif ID 35 (Highest to Lowest)

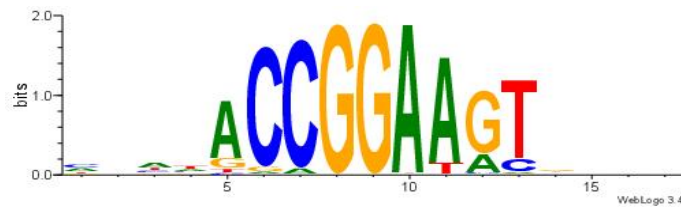
Motif ID:	UP00013
Motif name:	Gabpa_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0

Alignment:

BHHHACTTCCGGTHHBD
-VCACTTCCGG-----

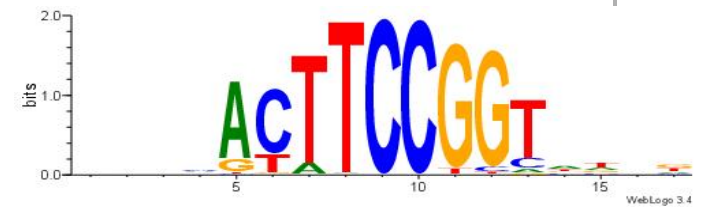
Original motif

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: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.000136484

Alignment:

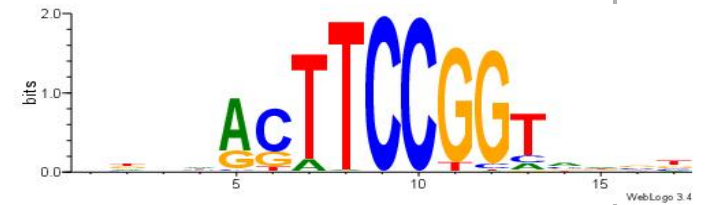
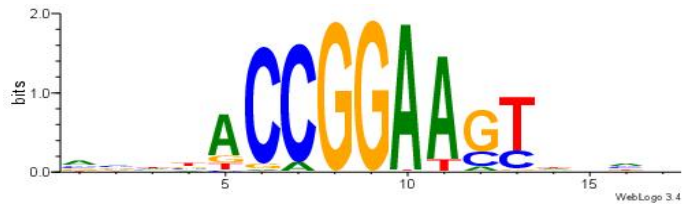
VVHBACCGGAAGTDBHD
-----CCGGAAGTGVV-

Original motif

Consensus sequence: VVHBACCGGAAGTDBHD

Reverse complement motif

Consensus sequence: DHBDACCTCCGGTVHVB

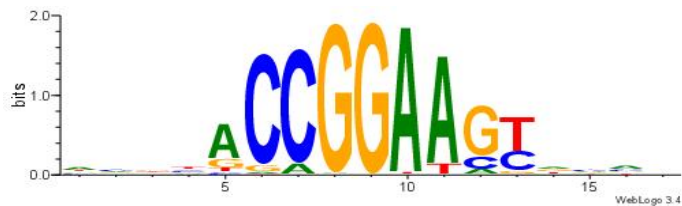


Motif ID: [UP00420](#)
 Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000219706

Alignment:
 DVBBACCGGAAGYDVVV
 -----CCGGAAGTGVV-

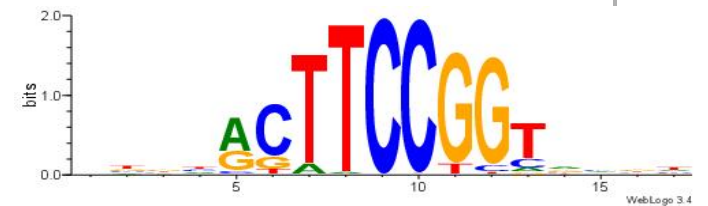
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



Motif ID: [UP00421](#)

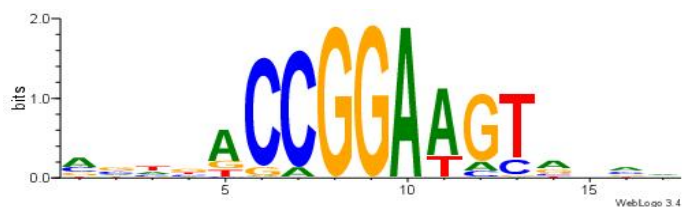
Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.000932023

Alignment:

MVHBACCGGAAGTVDVH
 -----CCGGAAGTGVV-

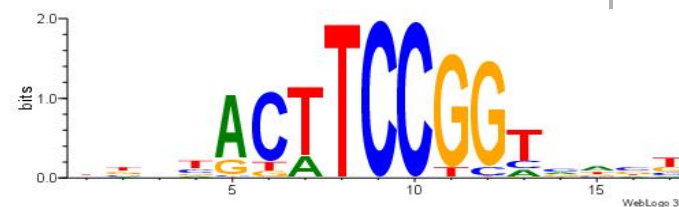
Original motif

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:

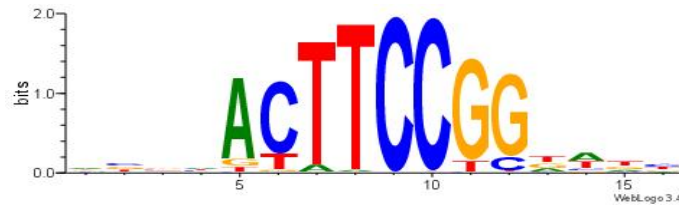
0.00527483

Alignment:

DBBHACTTCCGGDWDB
-VVCACTTCCGG-----

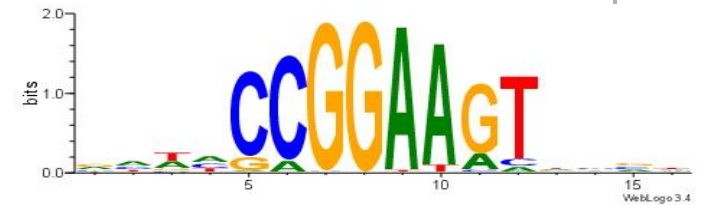
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



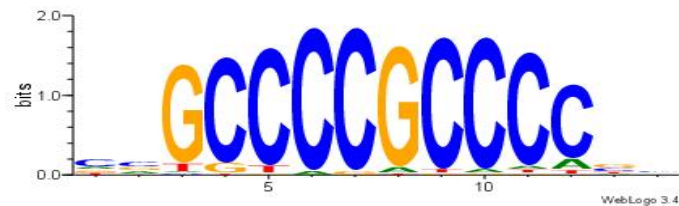
Dataset #: 4

Motif ID: 36

Motif name: csGCCCCGCCCCsc

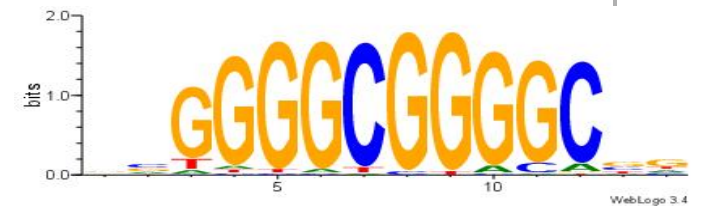
Original motif

Consensus sequence: HVGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



Best Matches for Motif ID 36 (Highest to Lowest)

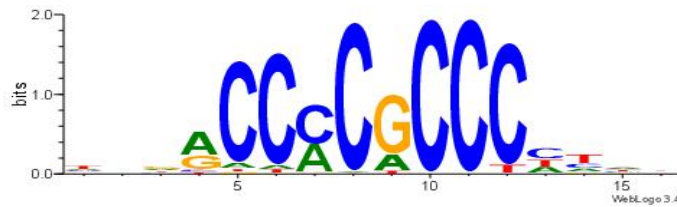
Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif

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

Alignment:
 HBDRC~~CMCGCC~~CHHHD
 -HVGCC~~CCGCCCC~~B-

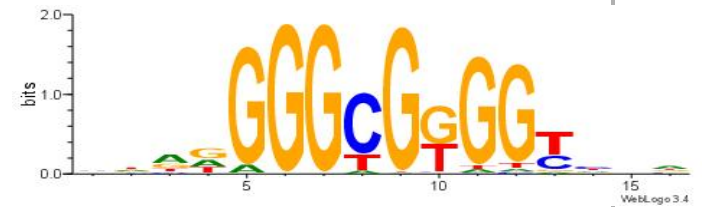
Original motif

Consensus sequence: HBDRC~~CMCGCC~~CHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



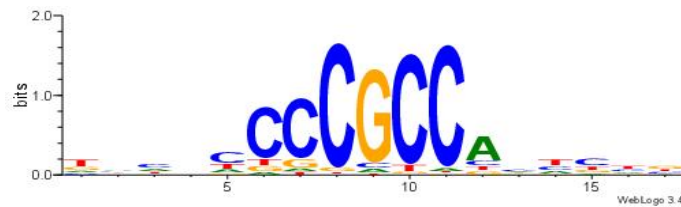
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0106621

Alignment:

DHHBCCCCGCCAHHBHB
-HVGCCCCGCCCCBB--

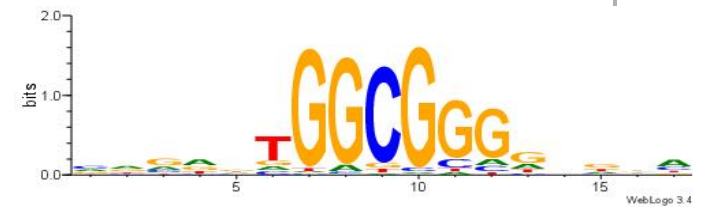
Original motif

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:

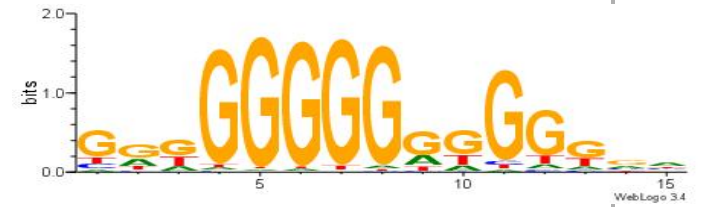
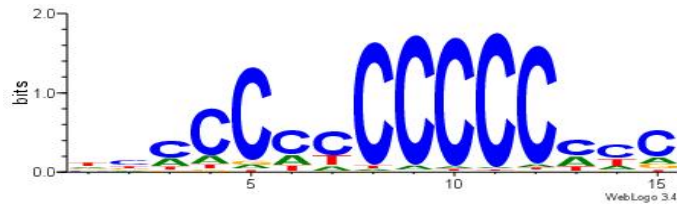
DBCCCCCCCCMYC
-HVGCCCCGCCCCBB

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

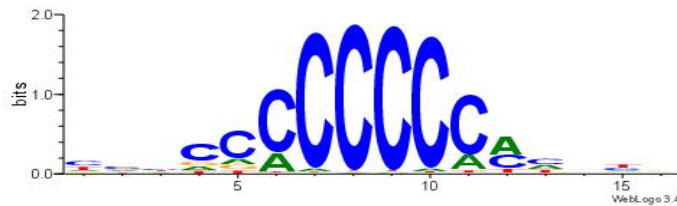
Consensus sequence: GKRGGGGGGGGGGBD



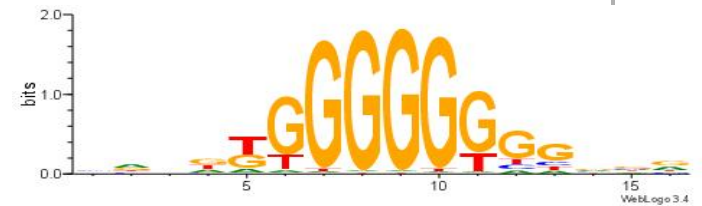
Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0181905

Alignment:
 HVBCCCCCCCCMHHHB
 HVGCCCCGCCCCBB--

Original motif
 Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif
 Consensus sequence: BHHDYGGGGGGGGGBVD

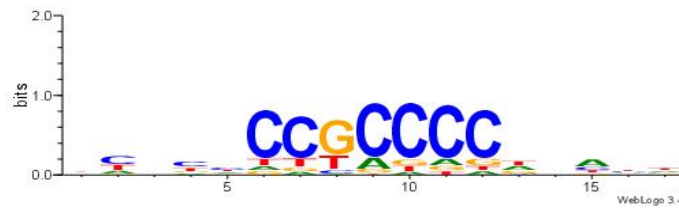


Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary

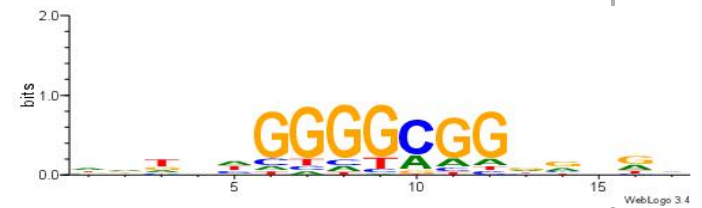
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0225788

Alignment:
 BHHBHCCGCCCCDHHHH
 HVGCCCGCCCCBB---

Original motif
 Consensus sequence: BHHBHCCGCCCCDHHHH

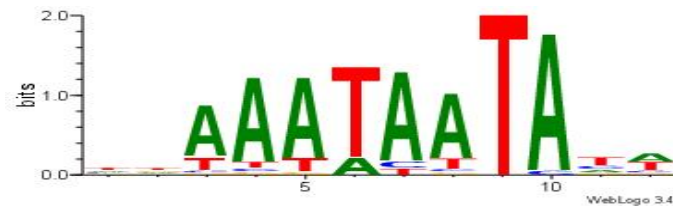


Reverse complement motif
 Consensus sequence: HHHHDGGGGCGGDBHDV

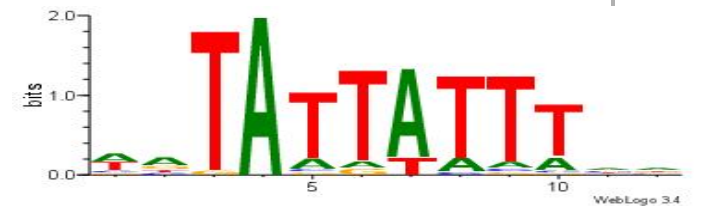


Dataset #: 4 Motif ID: 37 Motif name: tkAAATAATatw

Original motif
 Consensus sequence: HDAAATAATAHW



Reverse complement motif
 Consensus sequence: WHTATTATTTDH



Best Matches for Motif ID 37 (Highest to Lowest)

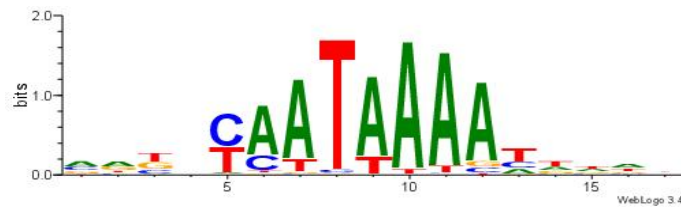
Motif ID: [UP00121](#)
Motif name: Hoxd10
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.00353196

Alignment:

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

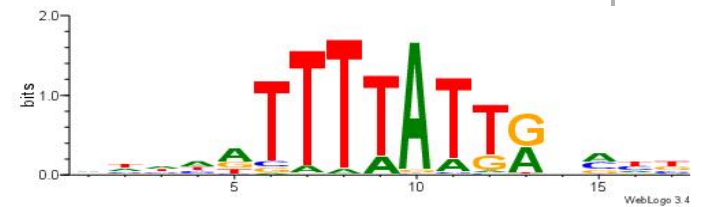
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



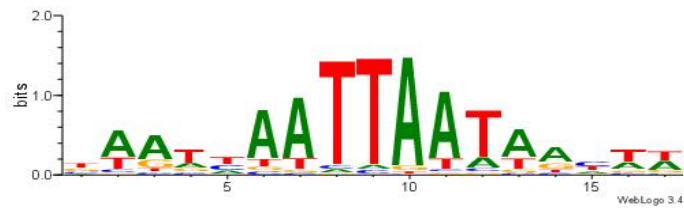
Motif ID: [UP00244](#)
Motif name: Tlx2
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00646023

Alignment:
 BAATHAATTAATAAHWW
 ---HDAAATAATAHW--

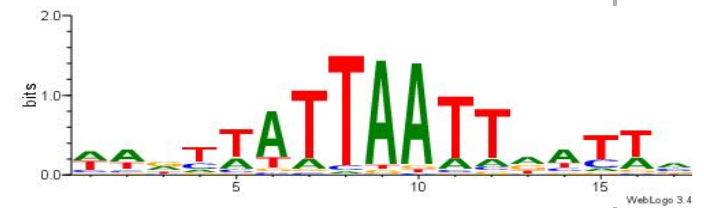
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



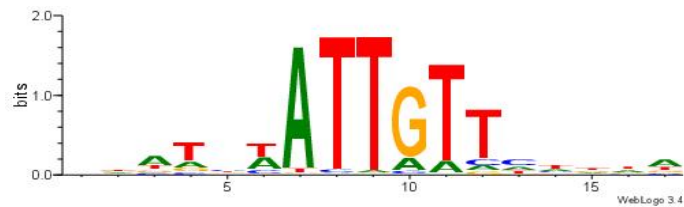
Motif ID: [UP00051](#)
 Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0120674

Alignment:

DDDHDAACAATWBATDD
--HDAAATAATAHW---

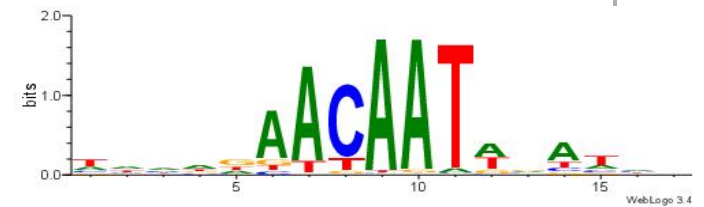
Original motif

Consensus sequence: DDATBWATTGTTTHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



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

Alignment:

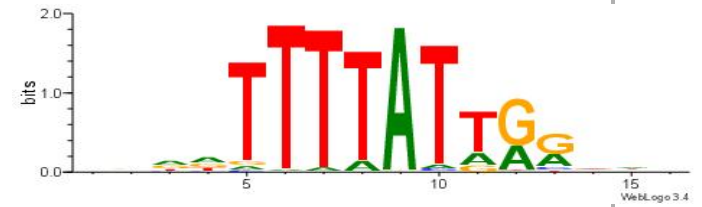
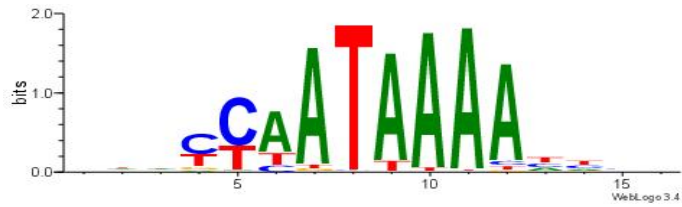
HDHHTTTTATTKKHDD
--WHTATTATTTDH--

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

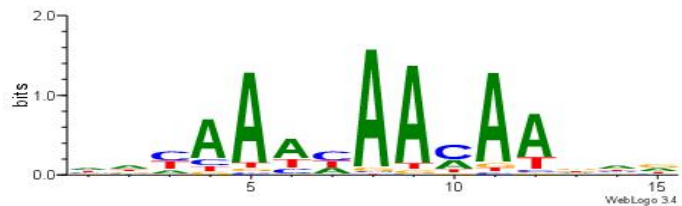


Motif ID: [UP00037](#)
 Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0129559

Alignment:
 HHHTTRTTDTTTKDH
 --WHTATTATTTDH-

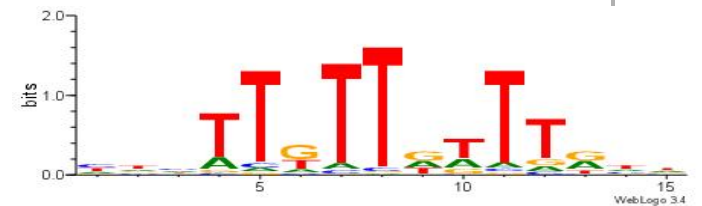
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

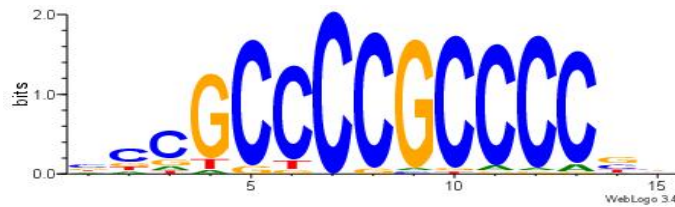
Consensus sequence: HHHTTRTTDTTTKDH



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

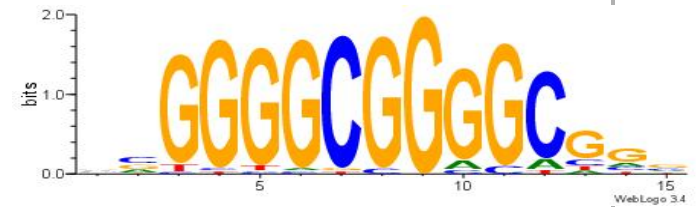
Original motif

Consensus sequence: BCCGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCGGB



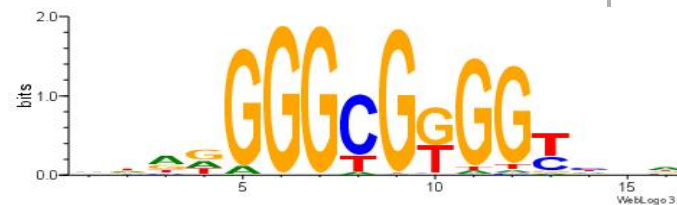
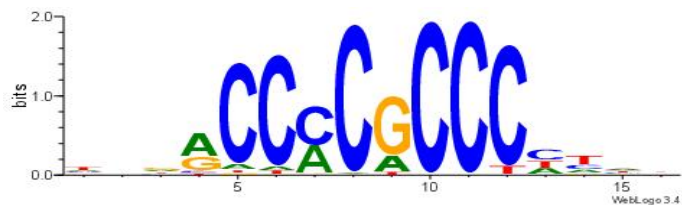
Best Matches for Motif ID 38 (Highest to Lowest)

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

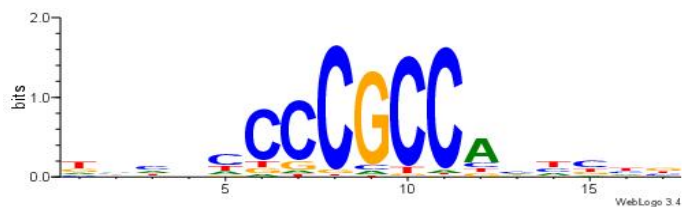


Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 15
 Similarity score: 0.0108117

Alignment:
 DHHBCCCCGCCAHHBHB
 BCCGCCCCGCCCCBB--

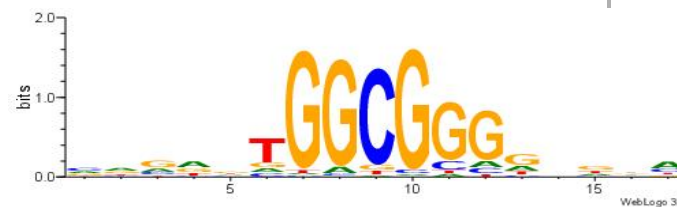
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



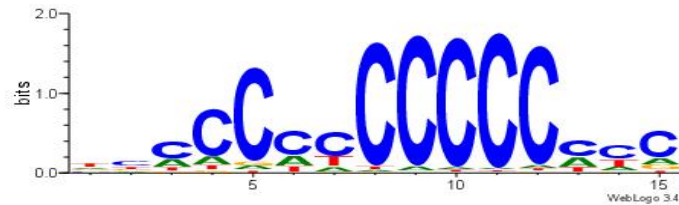
Motif ID: [UP00021](#)

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:
 GKRRGGGGGGGGGGBD
 BBGGGGCGGGGCGGB

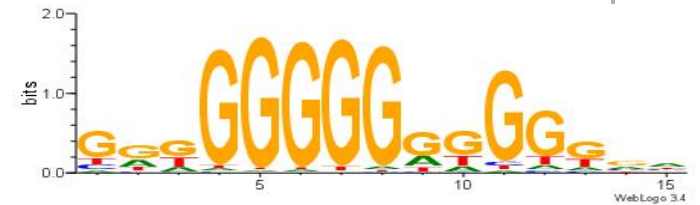
Original motif

Consensus sequence: DBCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRRGGGGGGGGGGBD



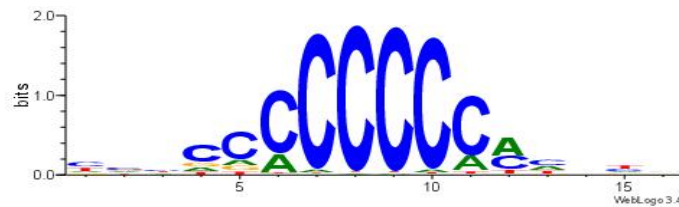
Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.018287

Alignment:

HVBCCCCCCCCMHHHB
BCCGCCCCGCCCCBB-

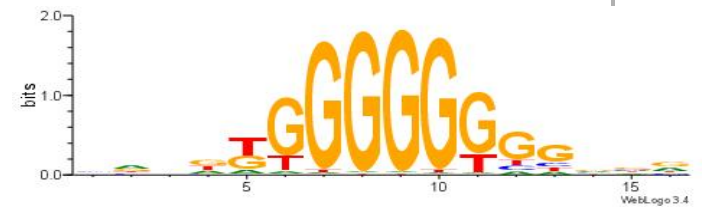
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD

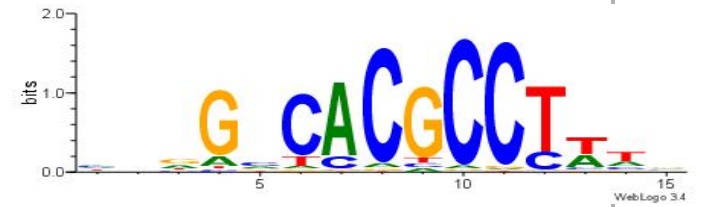
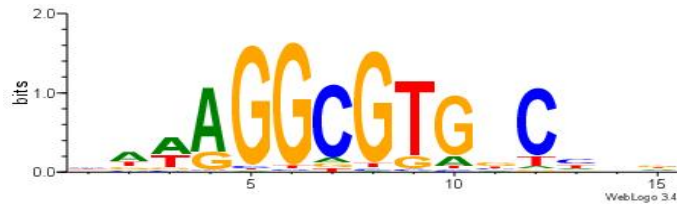


Motif ID: [UP00002](#)
Motif name: Sp4_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0247447

Alignment:
BDWAGGCGTGBCHHH
BBGGGGCGGGGCGGB

Original motif
Consensus sequence: BDWAGGCGTGBCHHH

Reverse complement motif
Consensus sequence: HHDGBCACGCCTWDB



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

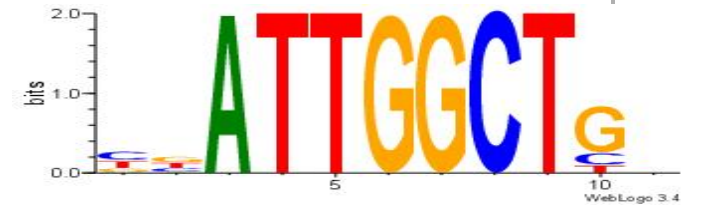
Original motif

Consensus sequence: DCAGCCAATVR



Reverse complement motif

Consensus sequence: MBATTGGCTGH



Best Matches for Motif ID 39 (Highest to Lowest)

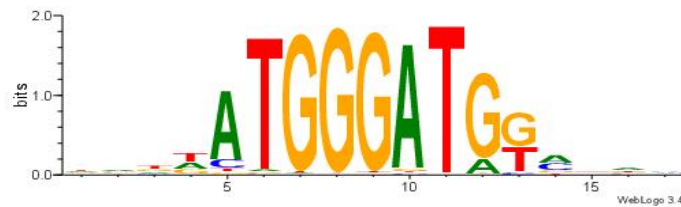
Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.000708728

Alignment:

BDDYYCATCCCATDDBD
----DCAGCCAATVR--

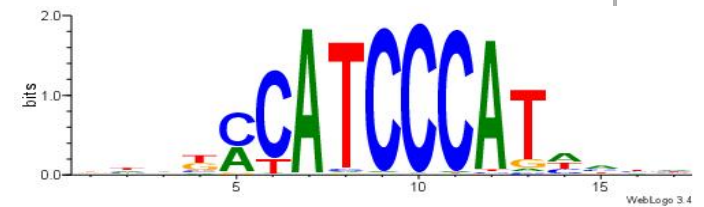
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



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

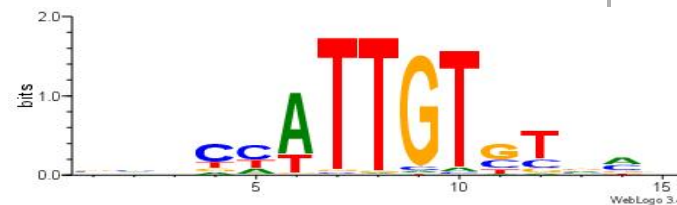
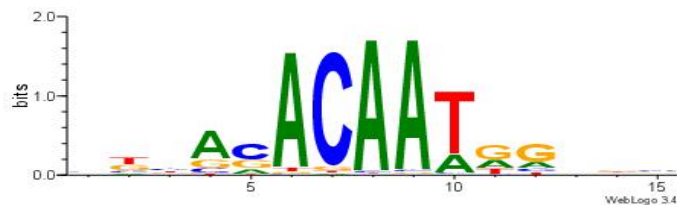
Alignment:
BKBASACAATRGHBB
-DCAGCCAATVR---

Original motif

Consensus sequence: BKBASACAATRGHBB

Reverse complement motif

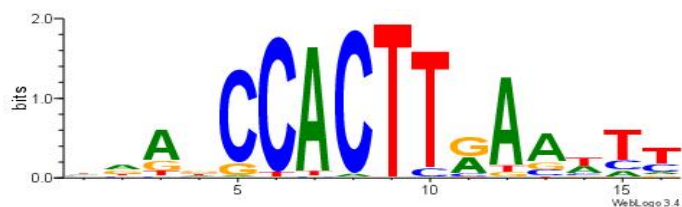
Consensus sequence: BBDCMATTGTSTBRB



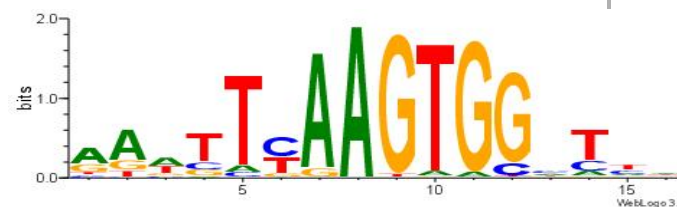
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.00805715

Alignment:
 AAWTTMAAGTGGHTDH
 -----MBATTGGCTGH

Original motif
 Consensus sequence: HDADCCACTTAAWTT



Reverse complement motif
 Consensus sequence: AAWTTMAAGTGGHTDH



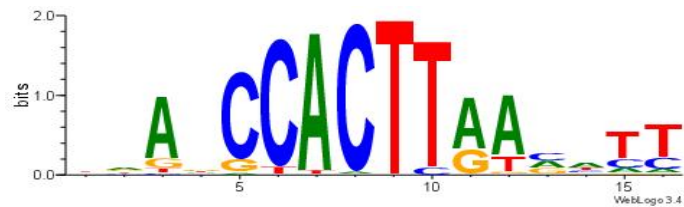
Motif ID: [UP00147](#)
 Motif name: Nkx2-6

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

Alignment:
 DDADCCACTTAAVHTT
 DCAGCCAATVR-----

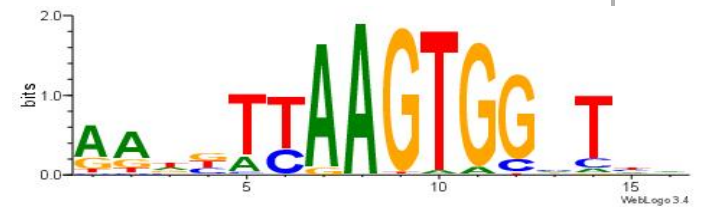
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



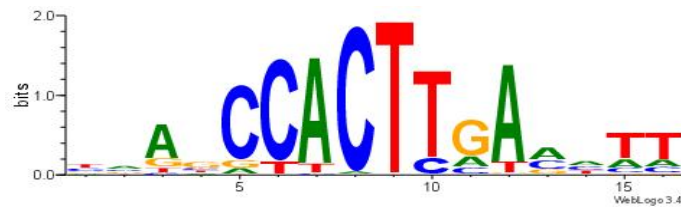
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0131729

Alignment:

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

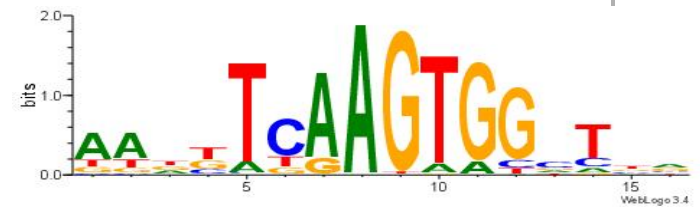
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



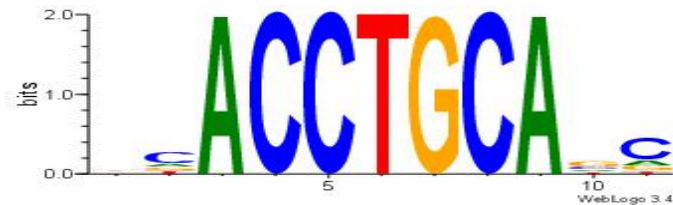
Dataset #: 4

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)

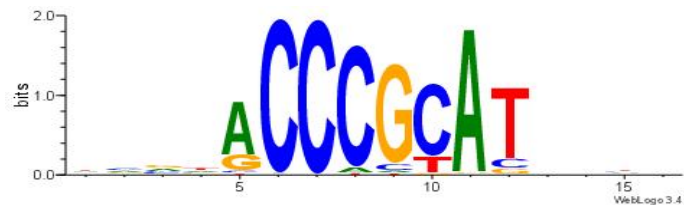
Motif ID:	UP00070
Motif name:	Gcm1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

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

Alignment:
DHDVATGCGGGTHVVH
---GBTGCAGGTGB--

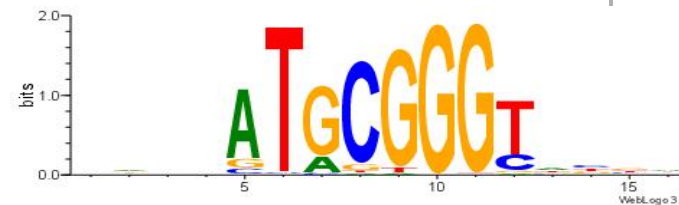
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



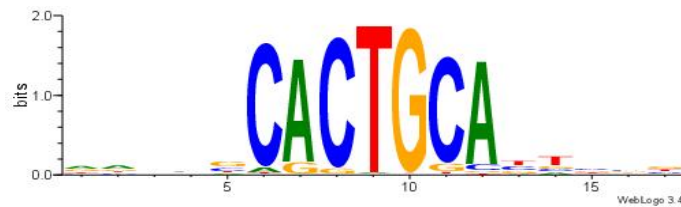
Motif ID: [UP00031](#)
Motif name: Zbtb3_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.000503863

Alignment:

BBBAVTGCAGTGBBVDD
---GBTGCAGGTGB---

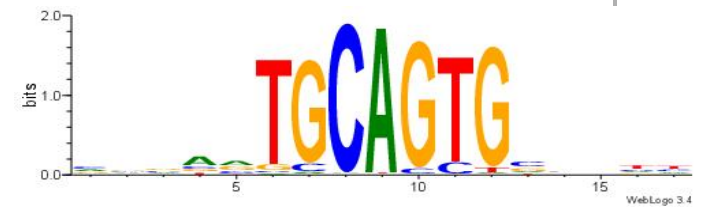
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00046](#)
Motif name: Tcfe2a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.000557448

Alignment:

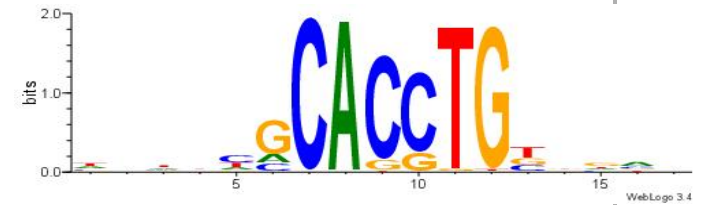
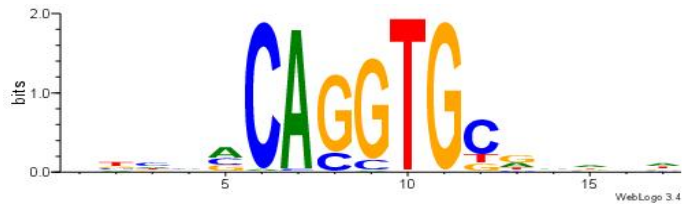
DHDBHGCACCTGBDDVB
-----BCACCTGCABC-

Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD

Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB

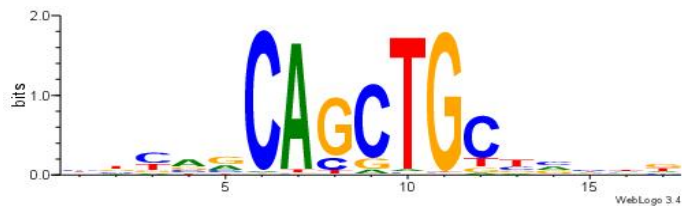


Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00842747

Alignment:
 BBYVVCAGCTGCBVHHD
 ----BCACCTGCABC--

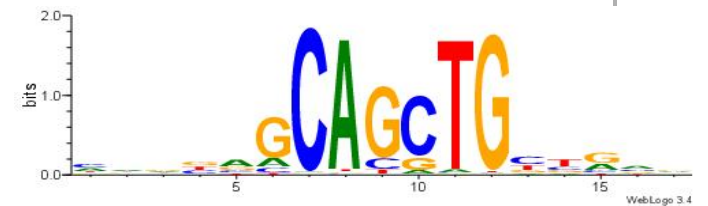
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HDDVVCAGCTGVBKVB



Motif ID: [UP00420](#)

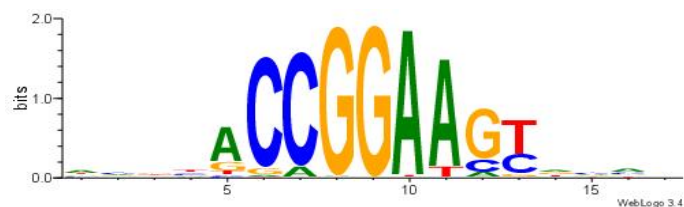
Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0111732

Alignment:

DVBBACCGGAAGYDVVV
 --BCACCTGCABC-----

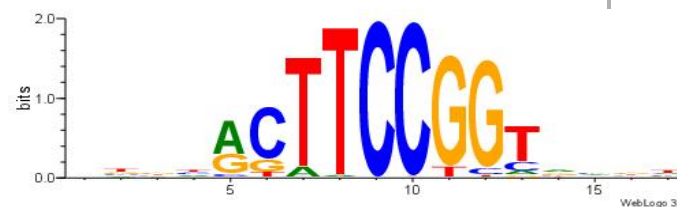
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



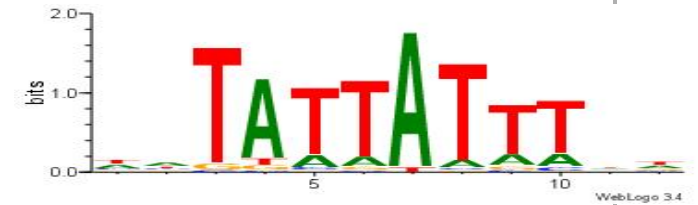
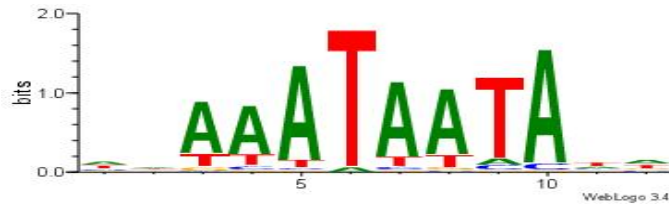
Dataset #: 4 Motif ID: 41 Motif name: wwAAATAATAtw

Original motif

Consensus sequence: HDAAATAATADD

Reverse complement motif

Consensus sequence: DDTATTATTTDH



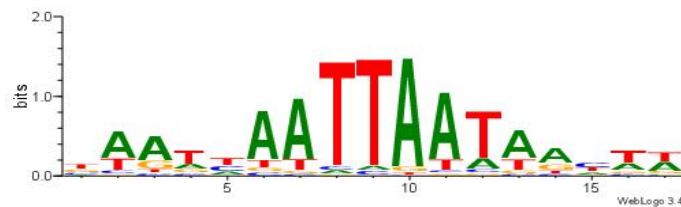
Best Matches for Motif ID 41 (Highest to Lowest)

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---

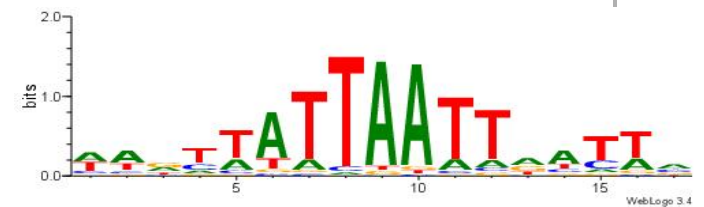
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



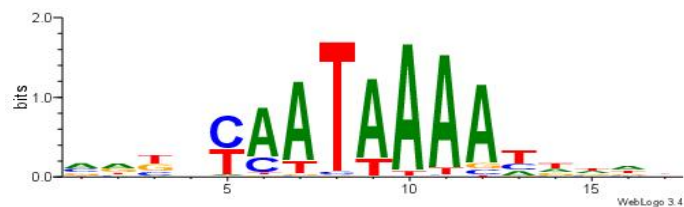
Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00673636

Alignment:

HDDDATTTTATTKVRDB
 ---DDTATTATTTDH--

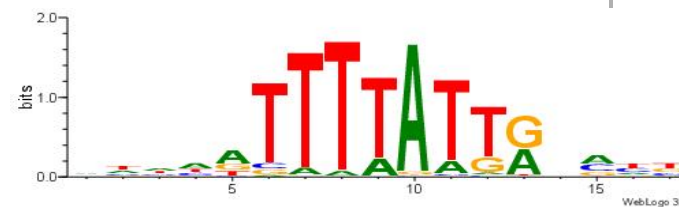
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



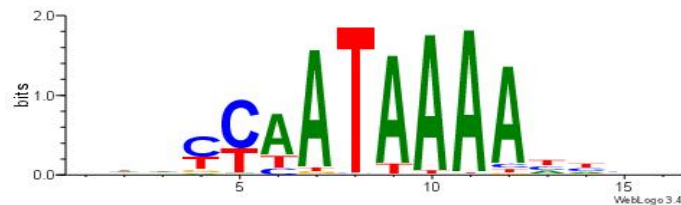
Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

Number of overlap: 12
Similarity score: 0.00685179

Alignment:
HDHHTTTTATTKKHDD
--DDTATTATTTDH--

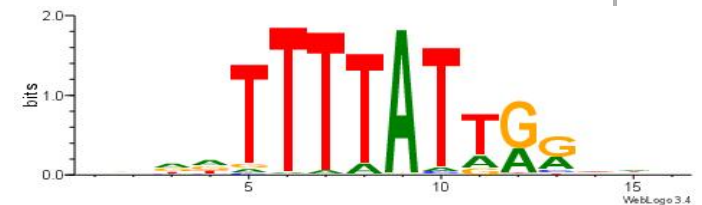
Original motif

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

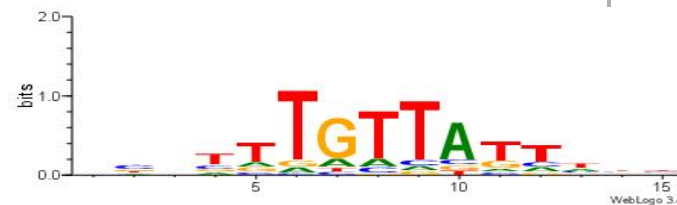
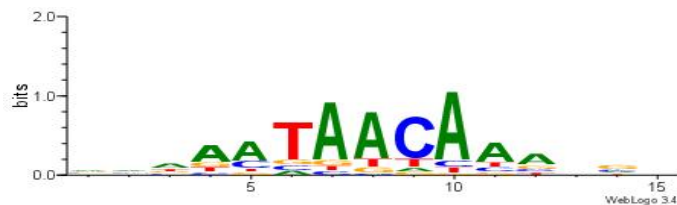
Alignment:
VVDAATAACAAAVVB
HDAAATAATADD---

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

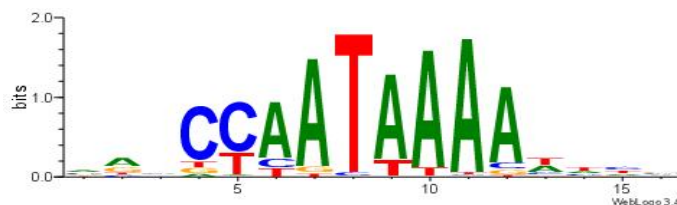
Consensus sequence: BVVTTTGTATTDBB



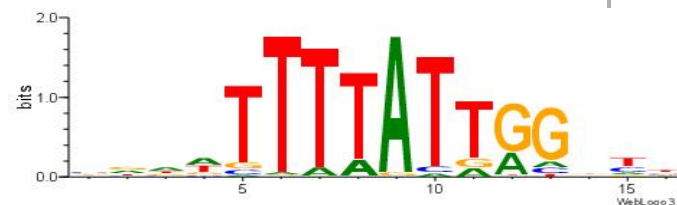
Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0121723

Alignment:
 VDHWT TTTATTGGDKB
 --DDTATTATTTDH--

Original motif
 Consensus sequence: VRHCCAATAAAWHHV



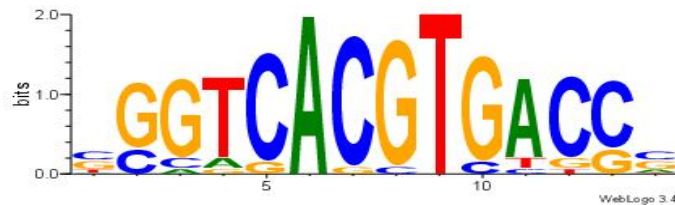
Reverse complement motif
 Consensus sequence: VDHWT TTTATTGGDKB



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

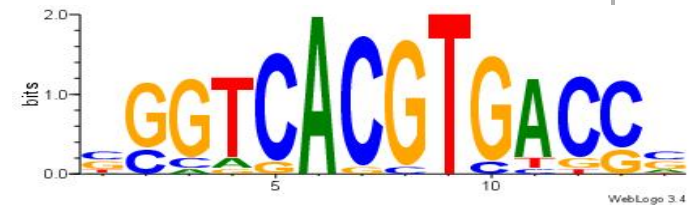
Original motif

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:

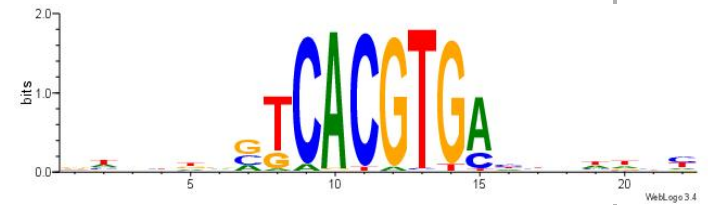
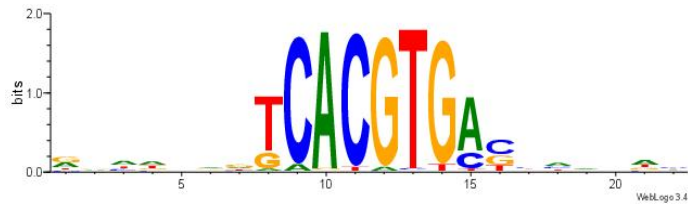
```
RDHDBVDTACGTGASBHVHDH  
----SGGTCACGTGACCS----
```

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

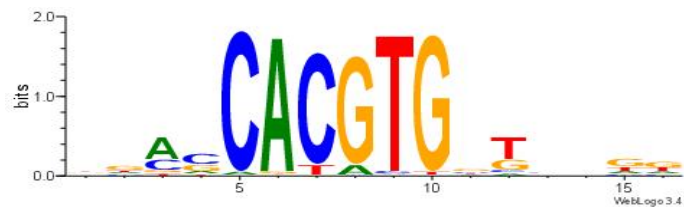
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



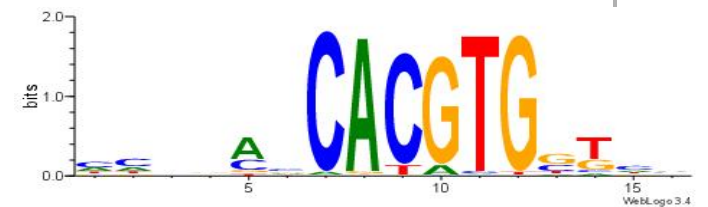
Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0226905

Alignment:
 DDASCACGTGBTBVDD
 --SGGTCACGTGACCS

Original motif
 Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif
 Consensus sequence: HHVBABCACGTGSTHD



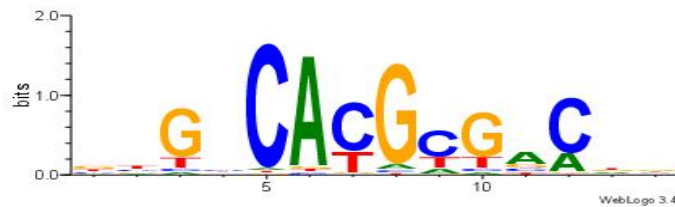
Motif ID: [UP00060](#)
 Motif name: Max_secondary

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

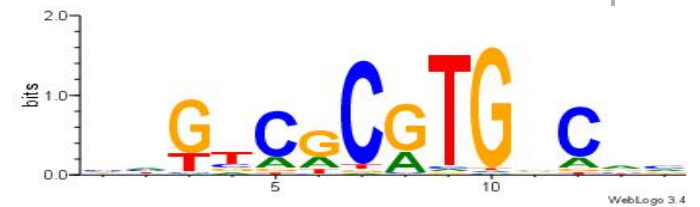
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



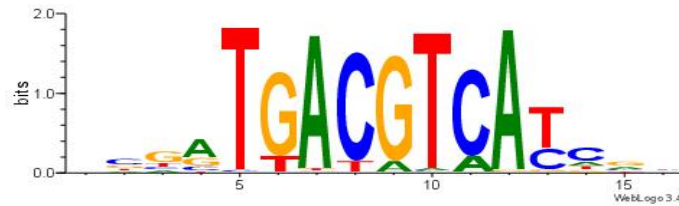
Motif ID: [UP00103](#)
Motif name: Jundm2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0253986

Alignment:

BBGATGACGTCA YCVH
-SGGTCACGTGACCS-

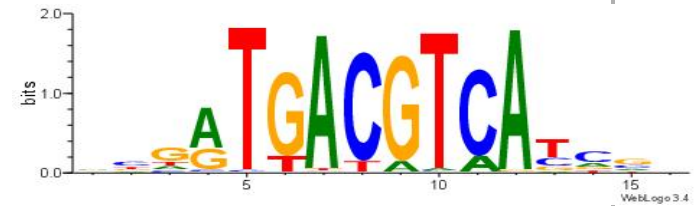
Original motif

Consensus sequence: BBGATGACGTCA YCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCATCBB



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:

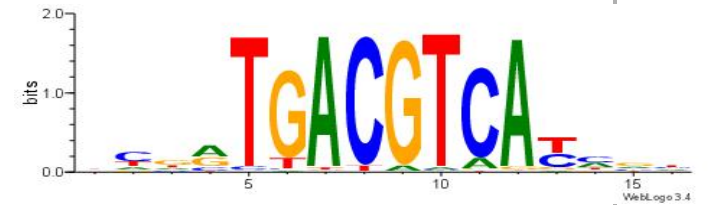
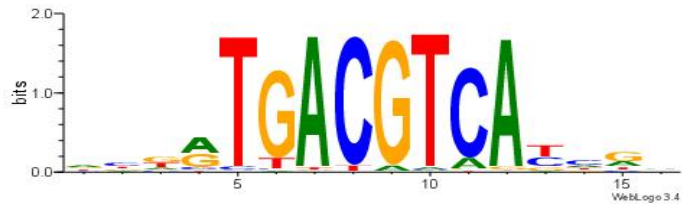
DBDRTGACGTCA YHRD
-SGGTCACGTGACCS-

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:	UP00052
Motif name:	Osr2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

HHHHGCTACKGTHVHH
----DBTACWGTAVH-

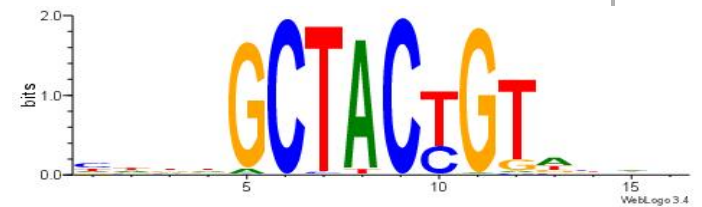
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



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

Alignment:

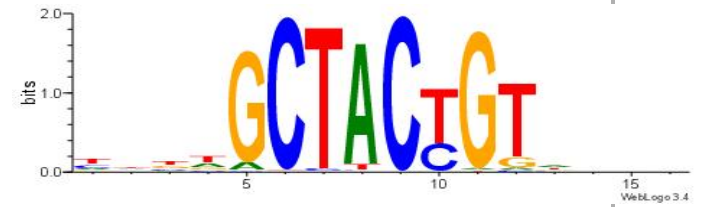
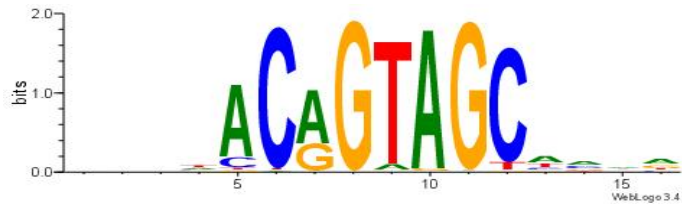
DHBHGCTACKGTHDHH
----DBTACWGTAVH-

Original motif

Consensus sequence: HHDHACRGTAGCHVHD

Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH

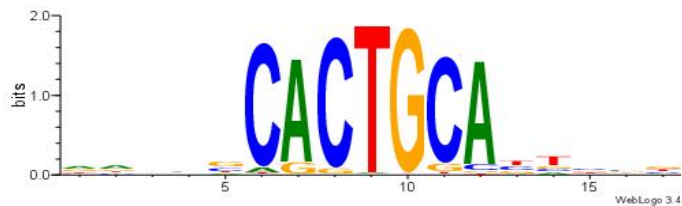


Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0165381

Alignment:
 BBBAVTGCAGTGBBVDD
 ---HVTACWGTTABD---

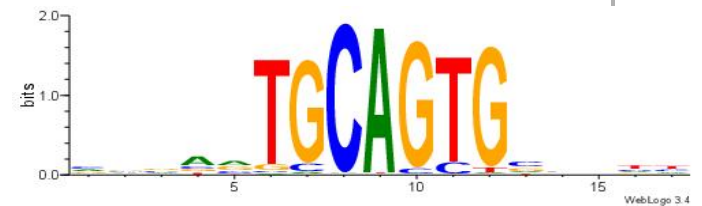
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00034](#)

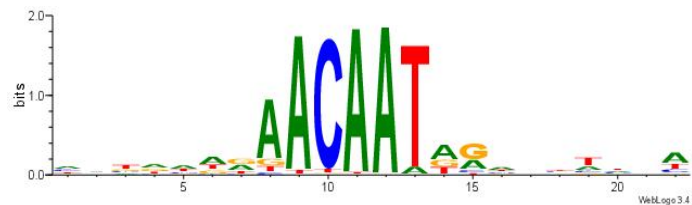
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0248017

Alignment:

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

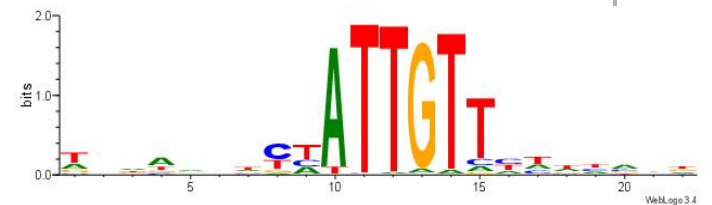
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH



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

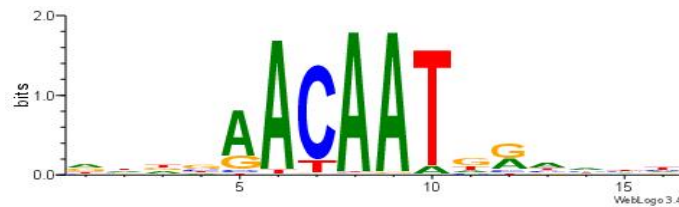
Similarity score: 0.0294174

Alignment:

HHHHMHATTGTTBDHD
---HVTACWGTTABD---

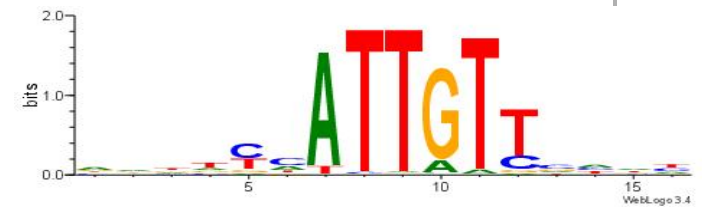
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

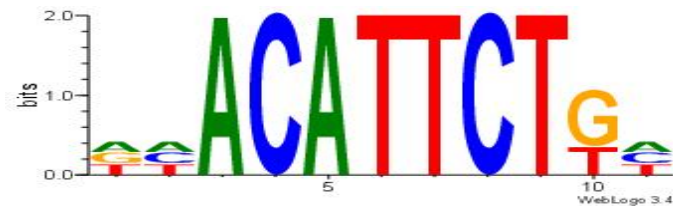
Consensus sequence: HHHHMHATTGTTBDHD



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)

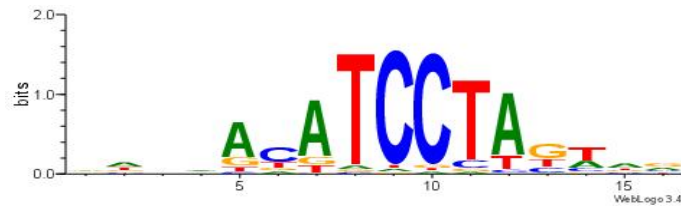
Motif ID: [UP00038](#)
Motif name: Spdef_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement

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

Alignment:
 VDWYTAGGATGTHVDH
 ---HCAGAATGTHD--

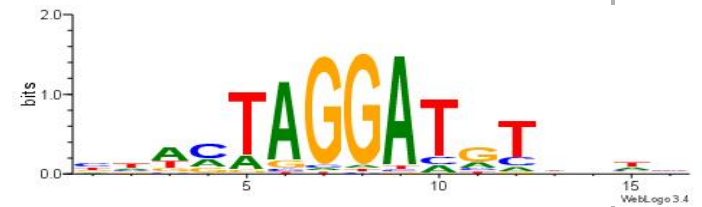
Original motif

Consensus sequence: DDBHACATCCTAKWDV



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH



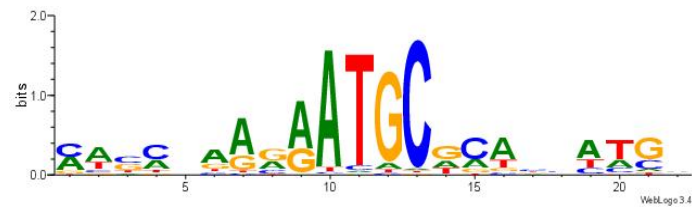
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.00582895

Alignment:

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

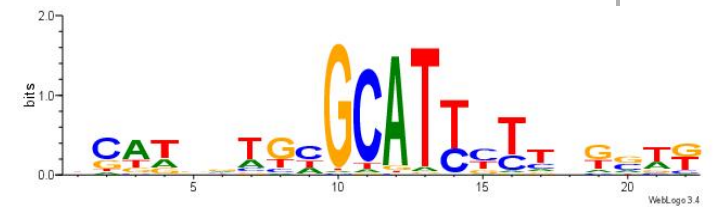
Original motif

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:

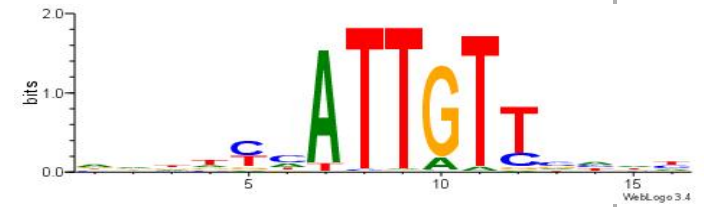
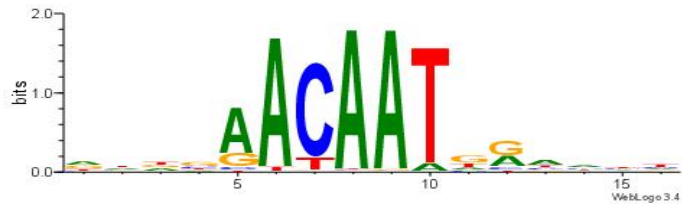
HHHHMHATTGTTBDHD
--DHACATTCTGH---

Original motif

Consensus sequence: DHDBAACAATDRHHHH

Reverse complement motif

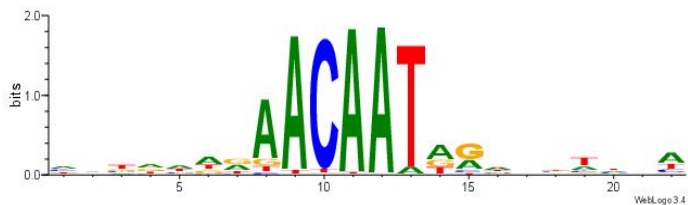
Consensus sequence: HHHMHATTGTTBDHD



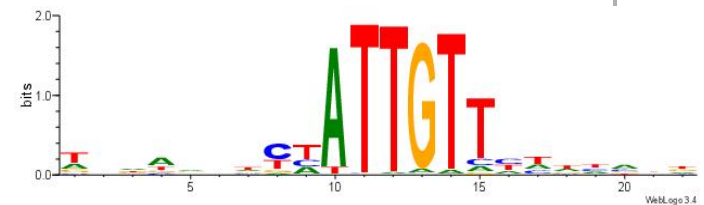
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0119275

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

Original motif
 Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif
 Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00030](#)

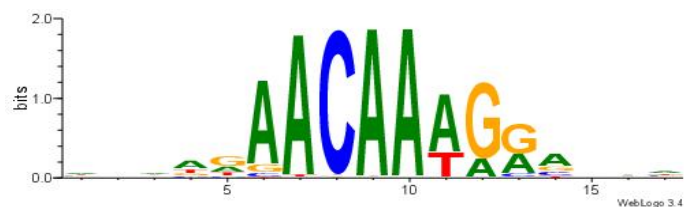
Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0122803

Alignment:

HHBTMCTTTGTTMDDVH
 --DHACATTCTGH----

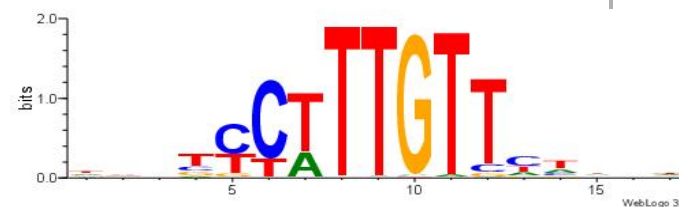
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



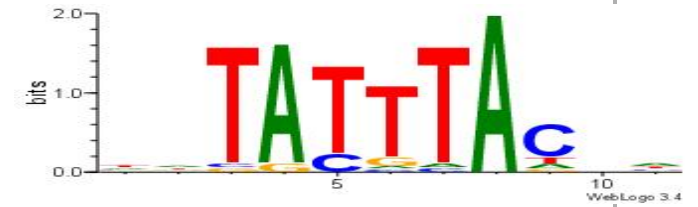
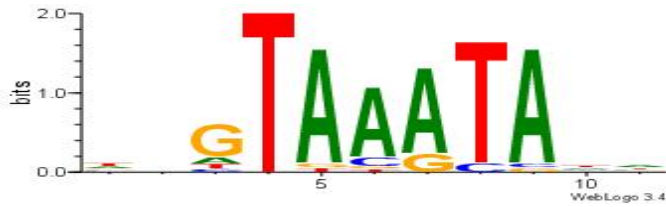
Dataset #: 4 Motif ID: 45 Motif name: wbgTAAATAww

Original motif

Consensus sequence: DBGTAAATAHD

Reverse complement motif

Consensus sequence: DHTATTTACBD



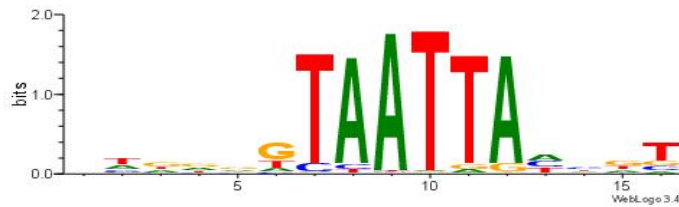
Best Matches for Motif ID 45 (Highest to Lowest)

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---

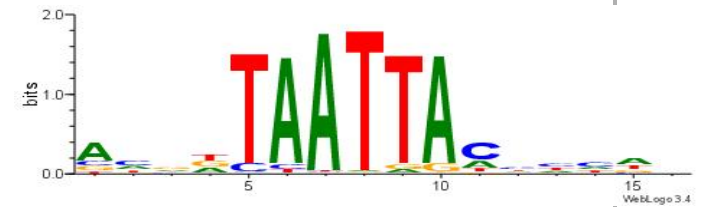
Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



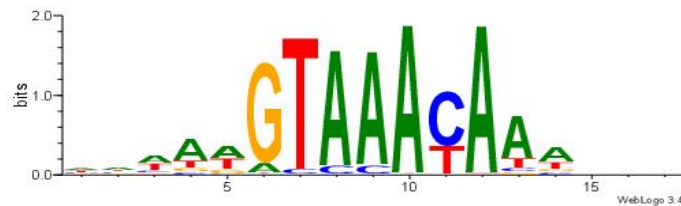
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00453517

Alignment:

HHWAWGTAAAYAAVDB
 ---DBGTAAATAHD---

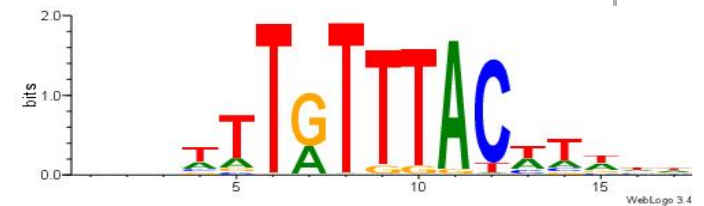
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

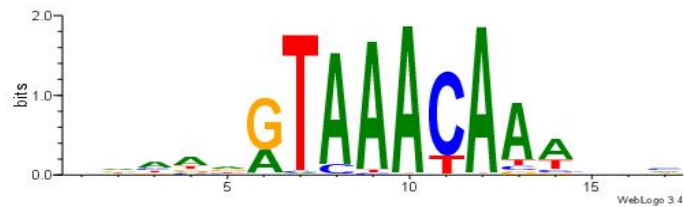


Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

Number of overlap: 11
Similarity score: 0.00490457

Alignment:
HDHADGTAAACAAAVVH
---DBGTAAATAHD---

Original motif
Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif
Consensus sequence: DVVTTTGTTTACDTHDH



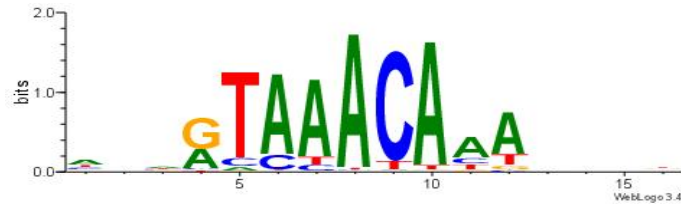
Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.00656547

Alignment:
HDHRTAAACAAAHDDD
-DBGTAAATAHD----

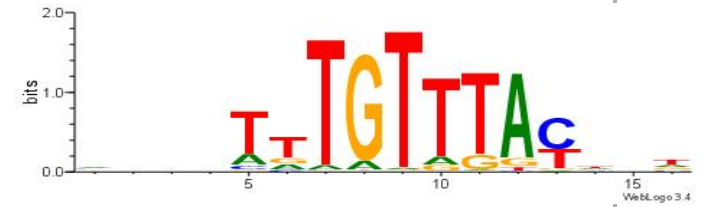
Original motif

Reverse complement motif

Consensus sequence: HDHRTAAACAAHDDD



Consensus sequence: DDDHTTTGTTTAMHDDH



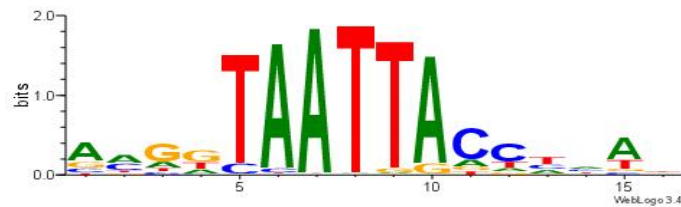
Motif ID: [UP00182](#)
Motif name: Hoxa6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0086354

Alignment:

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

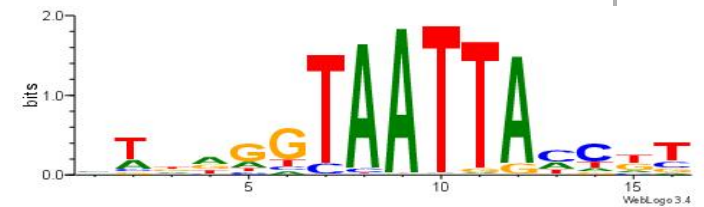
Original motif

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

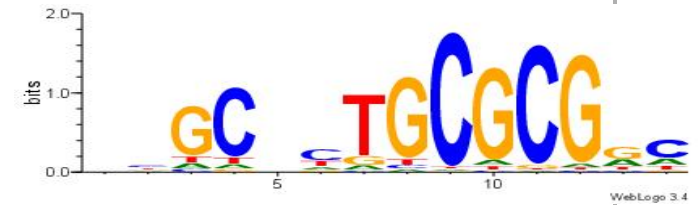
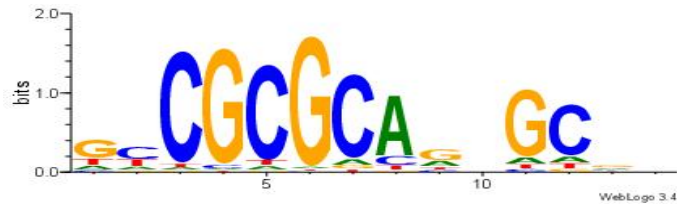
Alignment:
GYCGCGCARBGCVB
GTCGCG-----

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC

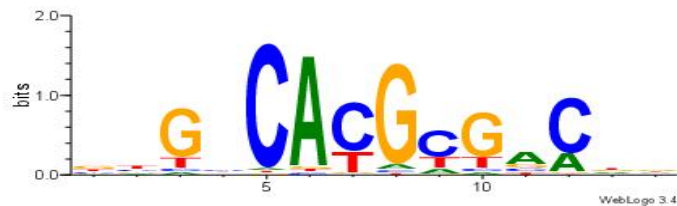


Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 6
 Similarity score: 0.00875457

Alignment:
 BBGHCACGCGACDD
 -----CGCGAC--

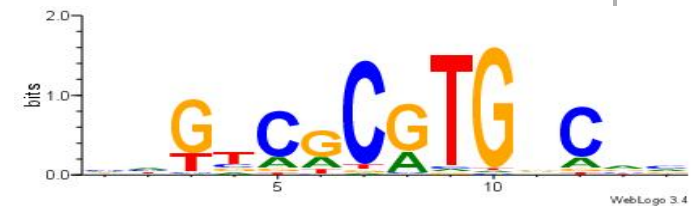
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



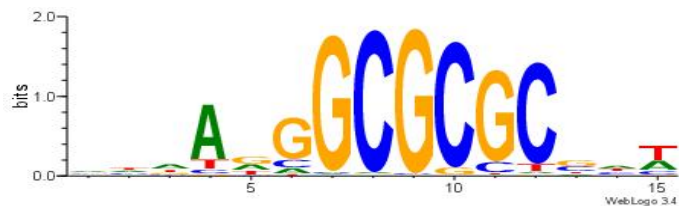
Motif ID: [UP00003](#)

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 - - - - -

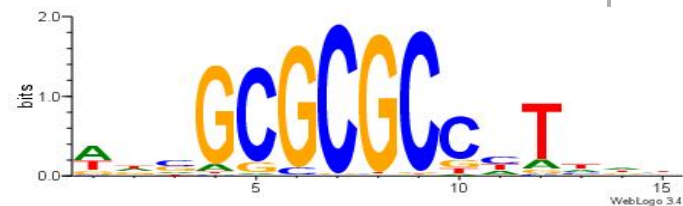
Original motif

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

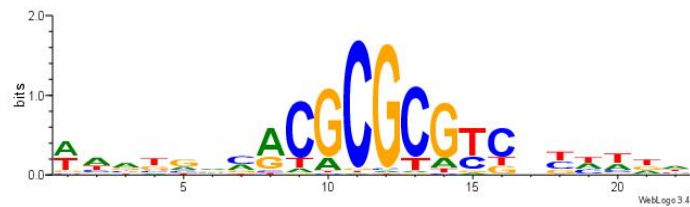
Similarity score: 0.0119605

Alignment:

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

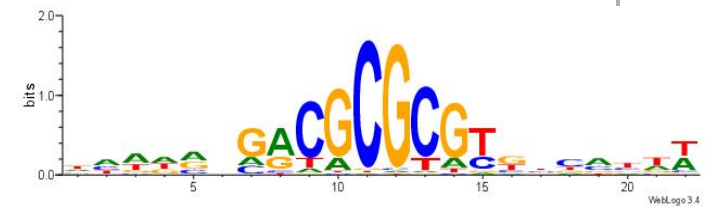
Original motif

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:

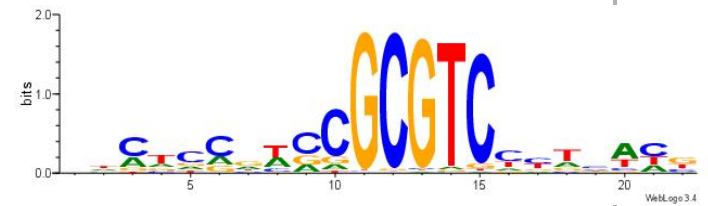
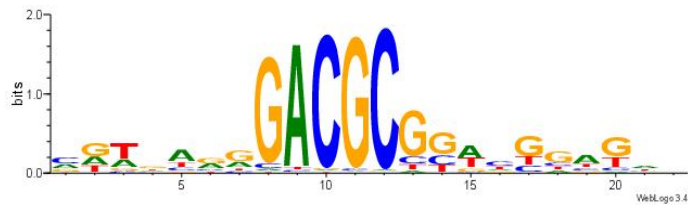
VHYTCCDWCCGCGTCMMTHWHV
-----CGCGAC-----

Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV

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)

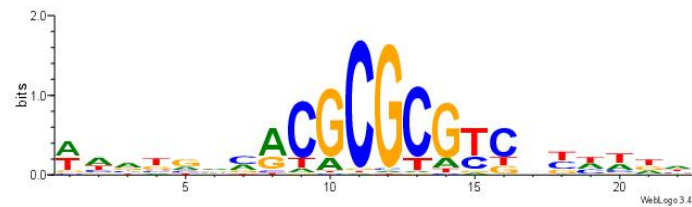
Motif ID:	UP00526
Motif name:	Foxn1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

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

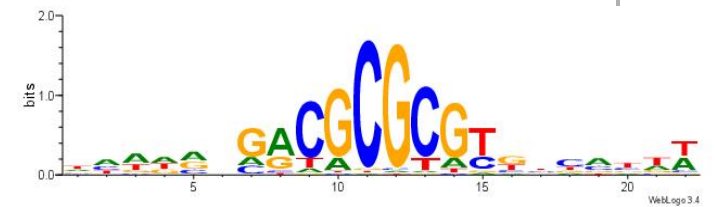
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



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

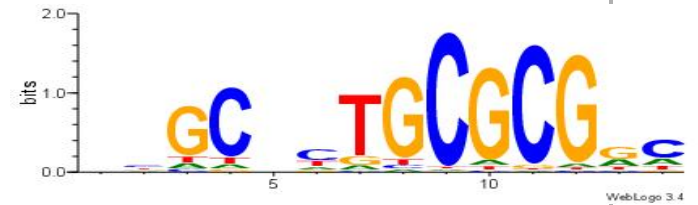
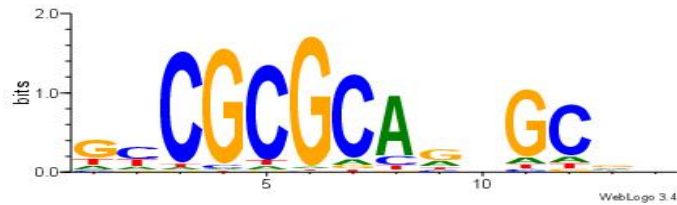
Alignment:
VVGCVMTGCGCGKC
-----CCGCGCGS--

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC

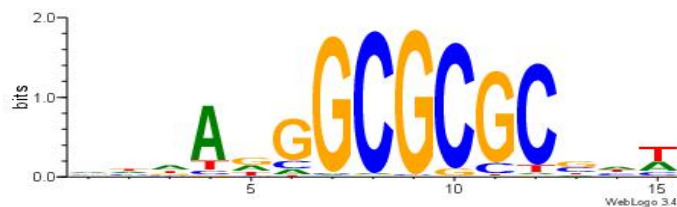


Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00337853

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

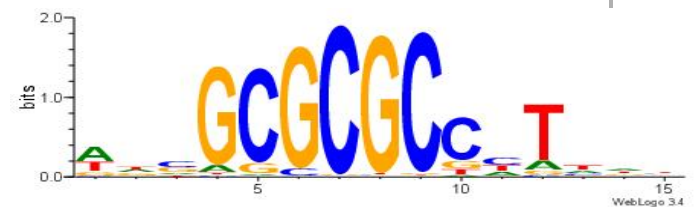
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

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



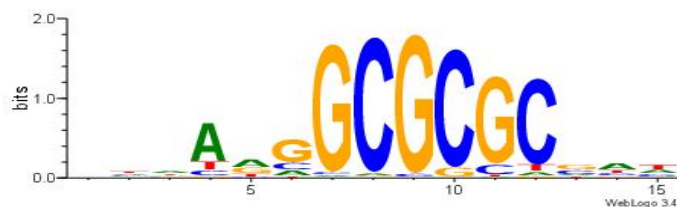
Motif ID: [UP00001](#)

Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00399923

Alignment:
 HHVGCGCGCCKTDHB
 -CCGCGCGS-----

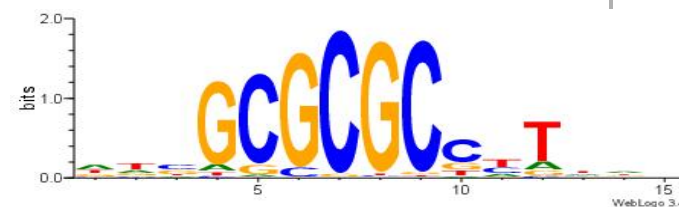
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB



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

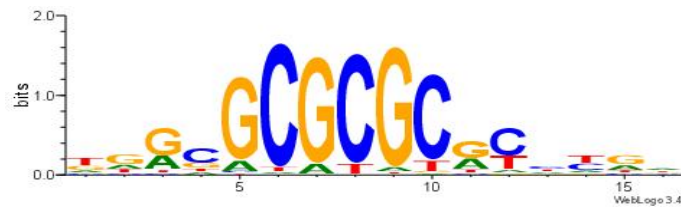
Similarity score: 0.00484534

Alignment:

DDGCGCGCGCRCHYRD
----CCGCGCGS----

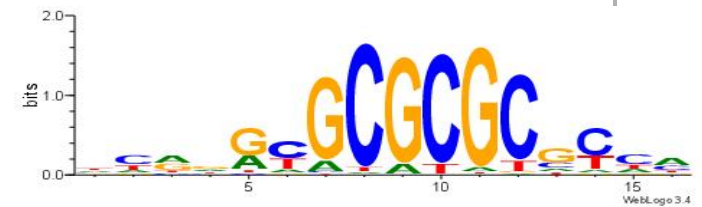
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

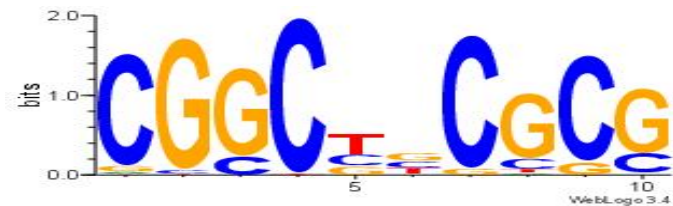
Consensus sequence: DMMDGMGCGCGGCHD



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

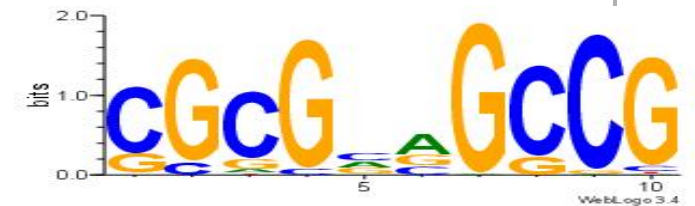
Original motif

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

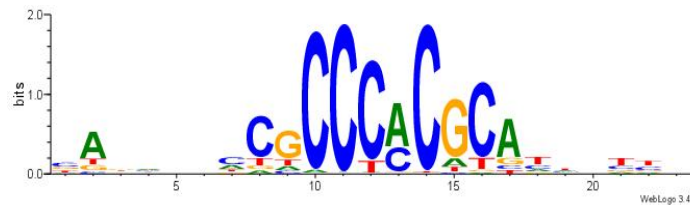
Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0331859

Alignment:

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

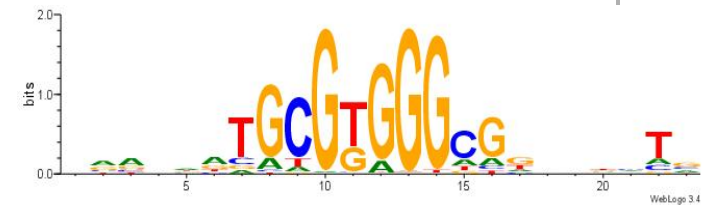
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



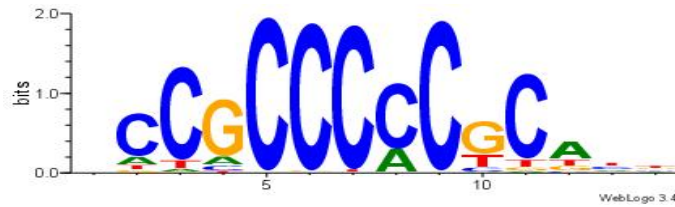
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0342114

Alignment:

HCCGCCCCCGCAHB
--CGGCYBCGCG--

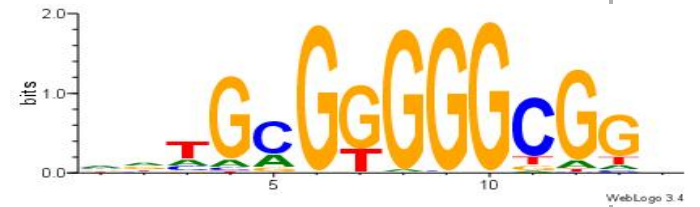
Original motif

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:

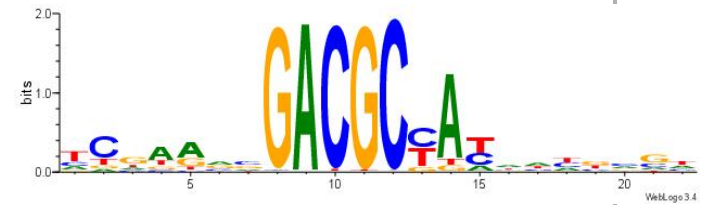
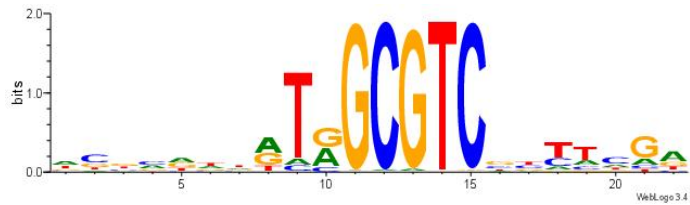
DBBVDDDRTRGCGTCBBYTHGA
-----CGGCYBCGCG--

Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA

Reverse complement motif

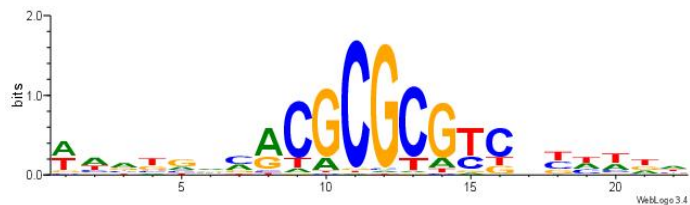
Consensus sequence: TCDAMVBGACGCMKDDDVBBDD



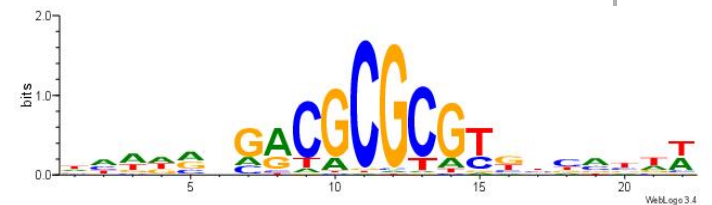
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 11
 Number of overlap: 10
 Similarity score: 0.041792

Alignment:
 HDWHMHGACGCGCGTRBVVBHW
 -----CGCGBMGCCG--

Original motif
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00065](#)

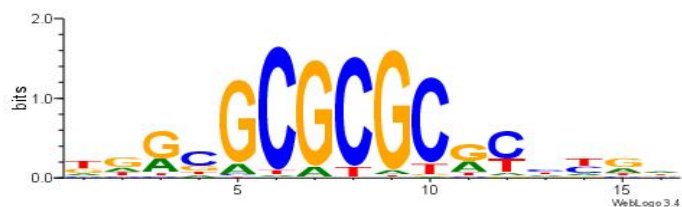
Motif name: Zfp161_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.041904

Alignment:

DDGCGCGCGCRCHYRD
 -----CGCGBMGCCG--

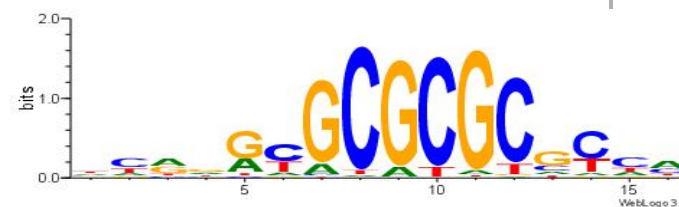
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDMGCGCGCGCHD



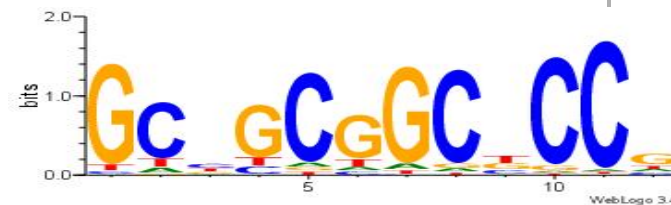
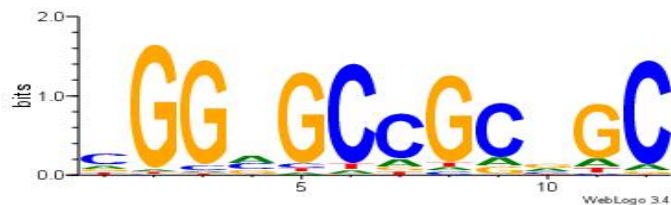
Dataset #: 5 Motif ID: 49 Motif name: TFF1

Original motif

Consensus sequence: CGGVGCCGCVGC

Reverse complement motif

Consensus sequence: GCVGCGGCBCCG



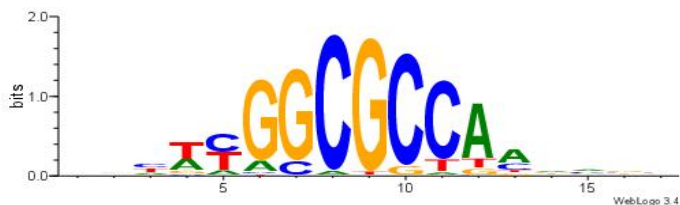
Best Matches for Motif ID 49 (Highest to Lowest)

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-

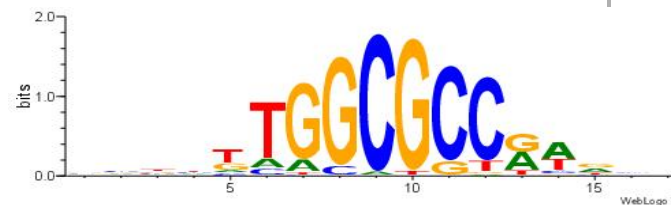
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



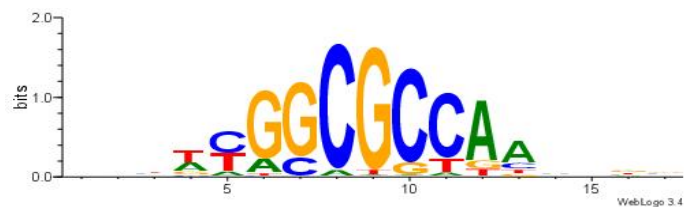
Motif ID: [UP00001](#)
 Motif name: E2F2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.046515

Alignment:

HVBWYGGCGCCAADVBB
 ----CGGVGCCGCVGC-

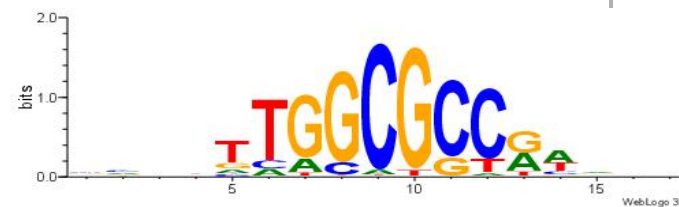
Original motif

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

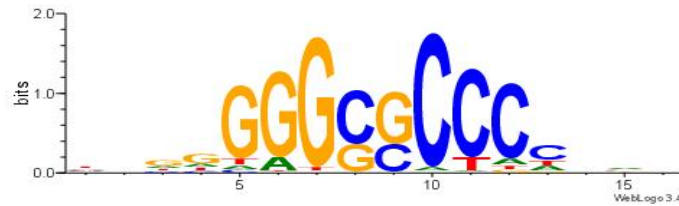
Similarity score: 0.0472704

Alignment:

VBVGGGGSSCCCCHHV
GCVGCGGCBCCG----

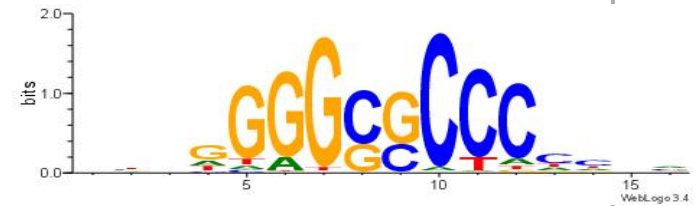
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHHV



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

Alignment:

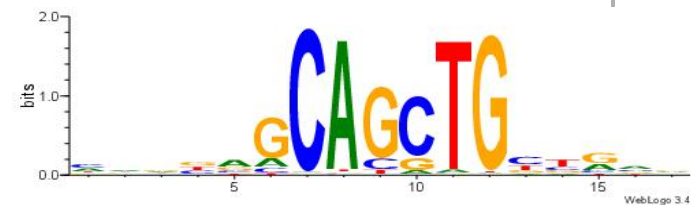
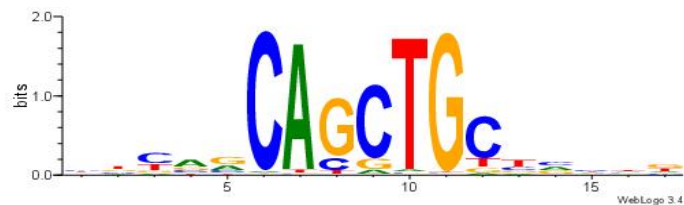
BBYVVCAGCTGCBVHHD
----GCVGCGGCBCCG-

Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD

Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB

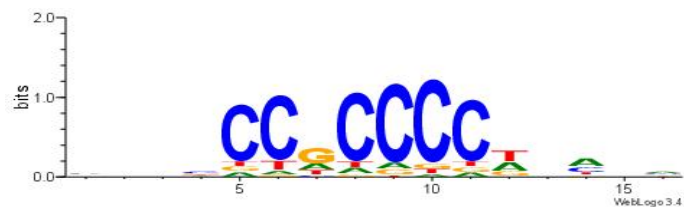


Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0508178

Alignment:
 HBBCCGCCCCWHHHV
 GCVGCGGCBCCG----

Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

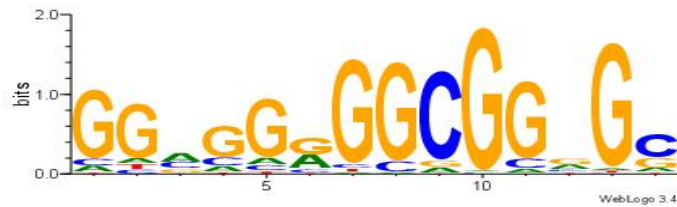
Consensus sequence: BHHHWGGGGCGGBBVH



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

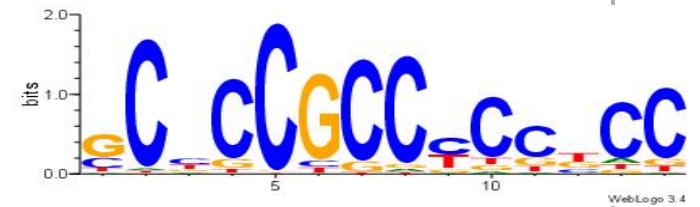
Original motif

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:

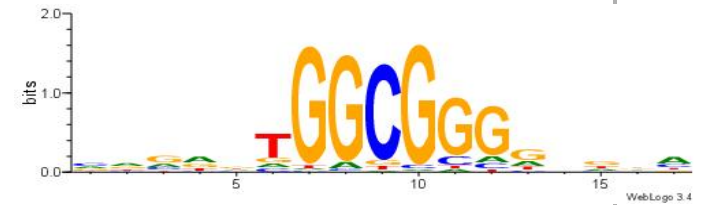
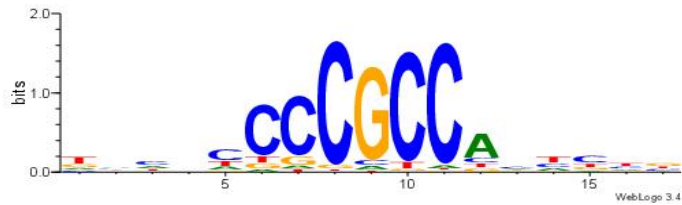
```
DHHBCCCCGCCAHHBHB  
---GCVCCGCCMCCYCC
```

Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

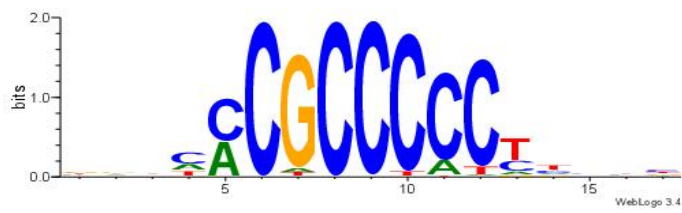
Consensus sequence: BHBHDTGGCGGGBDHD



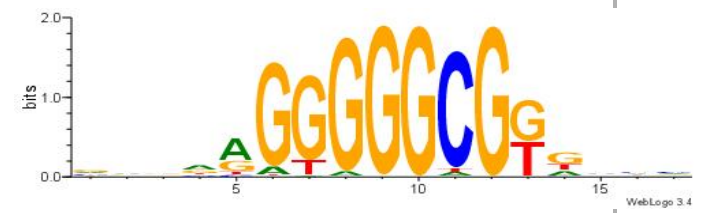
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0308559

Alignment:
 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](#)

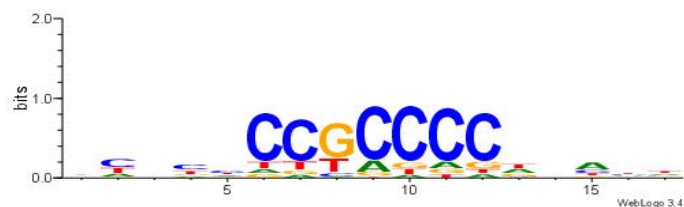
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0379479

Alignment:

BHHBHCCGCCCCDHHHH
--GCVCCGCCMCCYCC--

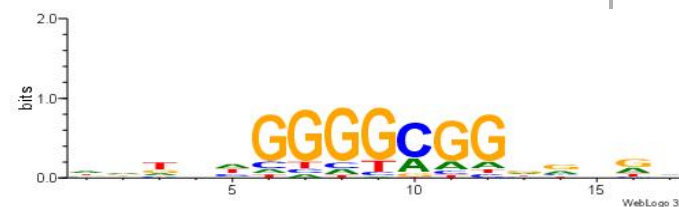
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

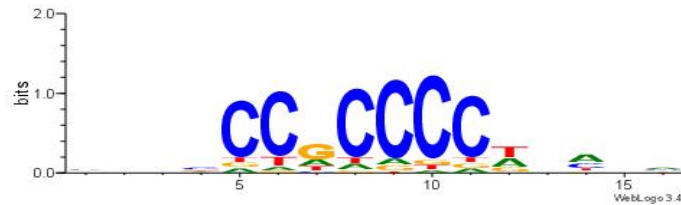
Similarity score: 0.0383359

Alignment:

HBBBCCGCCCCWHHHV
-GCVCCGCCMCCYCC-

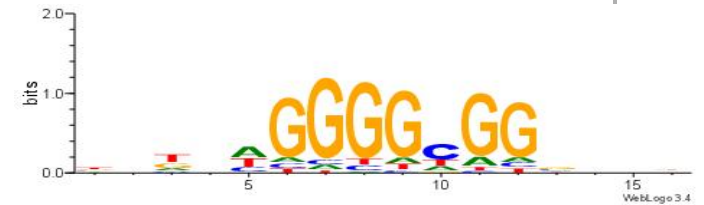
Original motif

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:

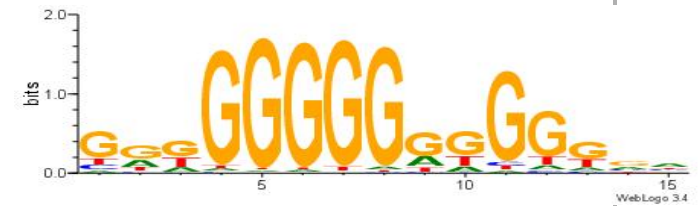
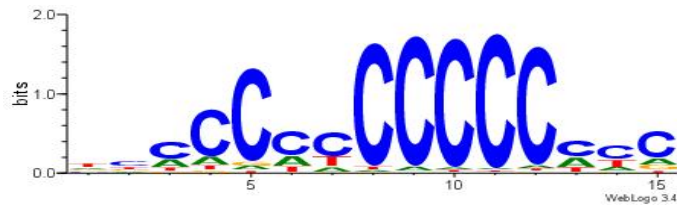
GKRGGGGGGGGGGBD
GGMGRRGGCGGVGC-

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

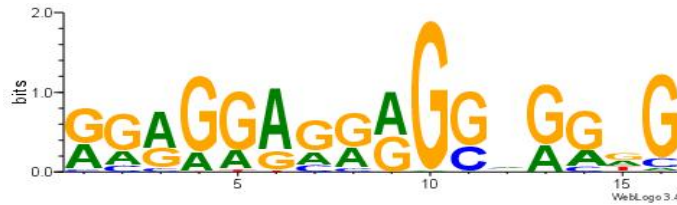
Consensus sequence: GKRGGGGGGGGGGBD



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

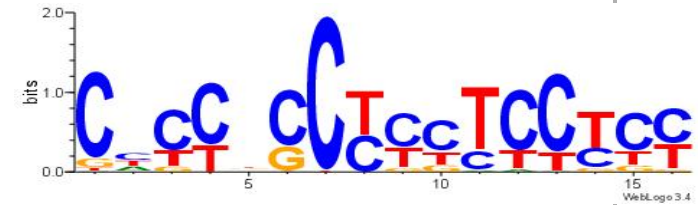
Original motif

Consensus sequence: RGRGGAGRRGGHGGDG



Reverse complement motif

Consensus sequence: CHCCBCKMCTCCKCM



Best Matches for Motif ID 51 (Highest to Lowest)

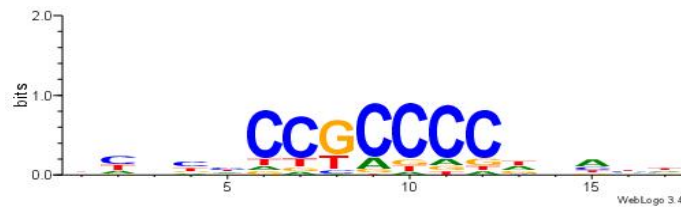
Motif ID:	UP00033
Motif name:	Zfp410_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0508679

Alignment:

BHHBHCCGCCCCDHHHH
CHCCBCKMCTCCKCM-

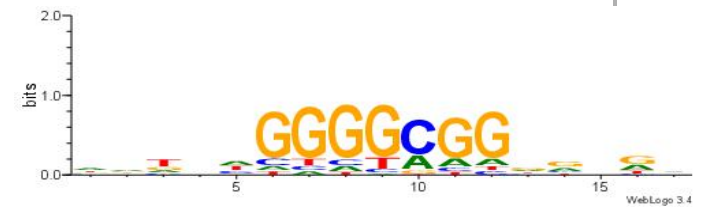
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

Alignment:

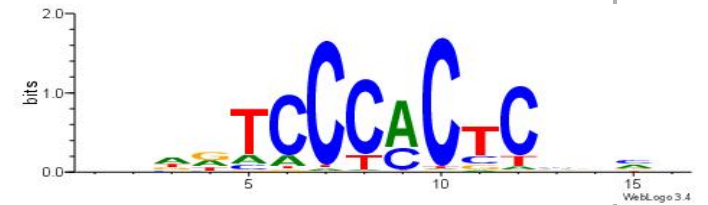
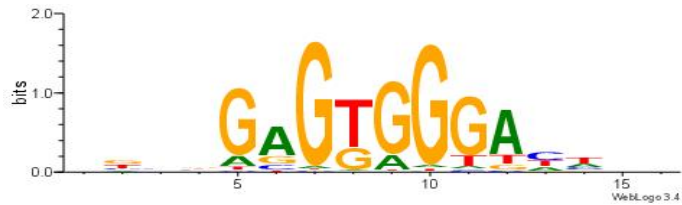
BBHBGAGTGGGAHHDB
RGRGGAGRRGGHGGDG

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

Consensus sequence: BHHTCCCACTCBDBV

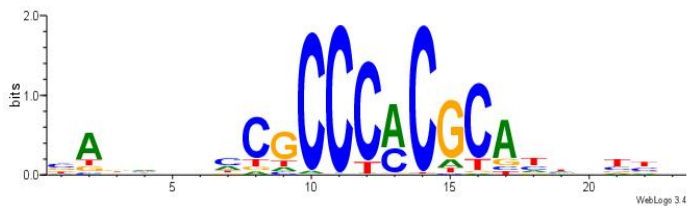


Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 16
 Similarity score: 0.0588056

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

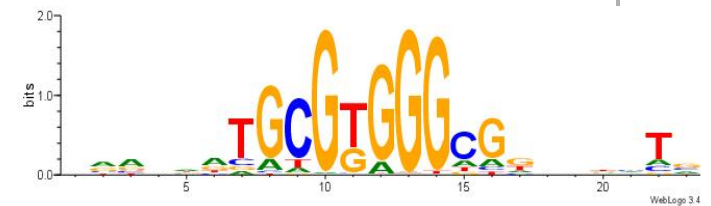
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVDHHTGCGYGGGCGDHSVHTB



Motif ID: [UP00539](#)

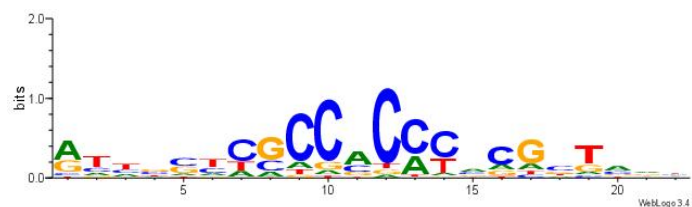
Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 16
 Similarity score: 0.0589361

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 ---CHCCBCKMCTCCKCM---

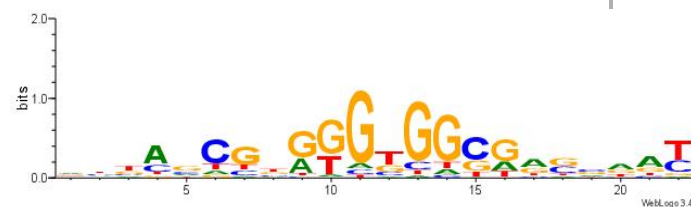
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 16

Similarity score: 0.0599837

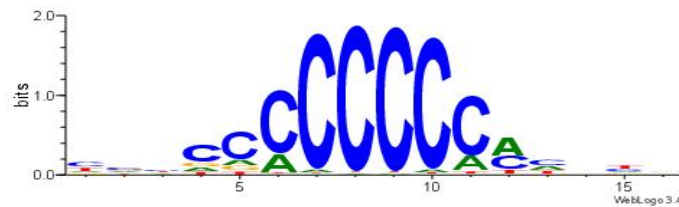
Alignment:

BHHDYGGGGGGGGBVD

RGRGGAGRRGGHGDDG

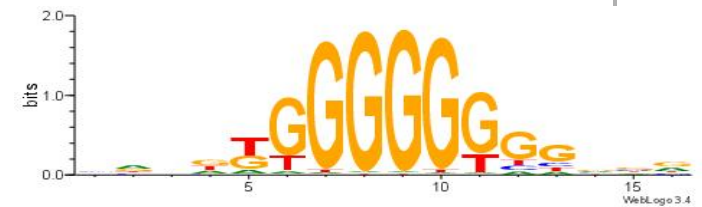
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

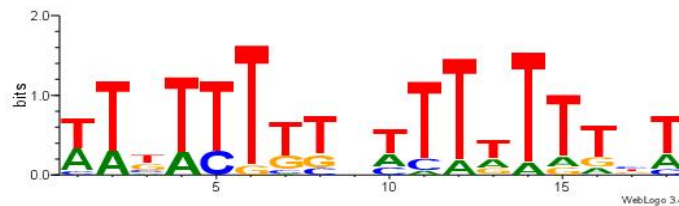
Consensus sequence: BHHDYGGGGGGGGBVD



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

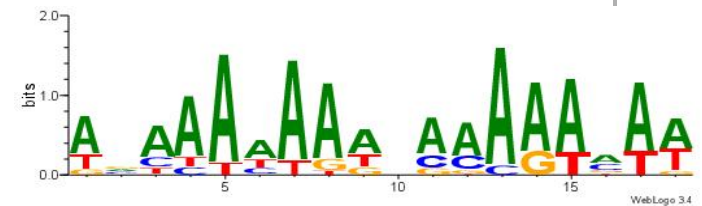
Original motif

Consensus sequence: WTKTTTTTHWTTTTTBT



Reverse complement motif

Consensus sequence: ABAAAAAWHAAAAARAW



Best Matches for Motif ID 52 (Highest to Lowest)

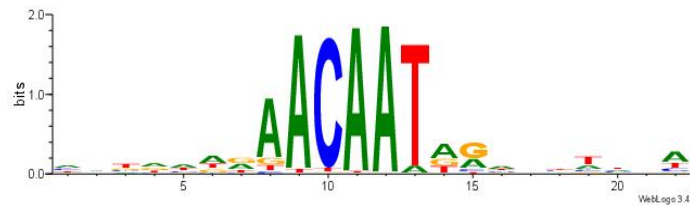
Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement

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

Alignment:
HHBDHDDAACAAATDRHHHHHBW
----ABAAAAAAWHAAAAARAW

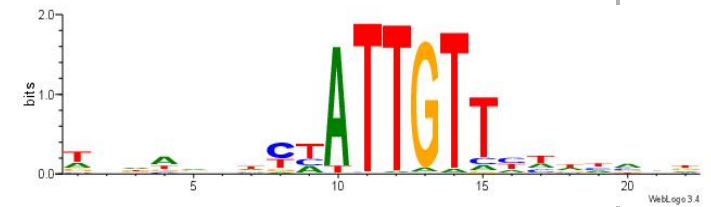
Original motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHMDATTGTTHDHDVHH



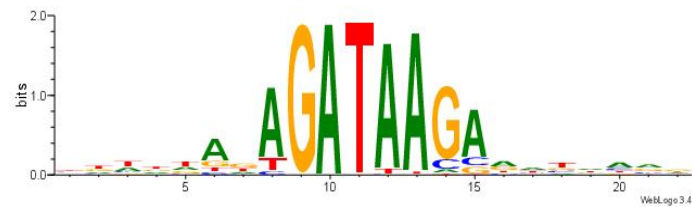
Motif ID: [UP00032](#)
Motif name: Gata3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.0549239

Alignment:

HBHDVHDTCTTATCTHTDDHDV
---WTKTTTTTHWTTTTTBT-

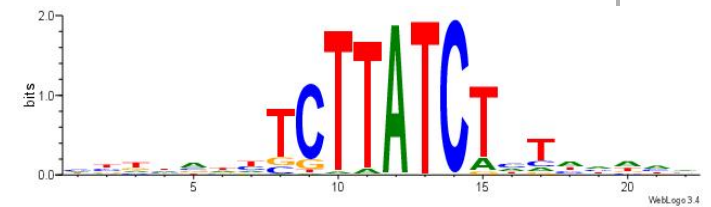
Original motif

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:

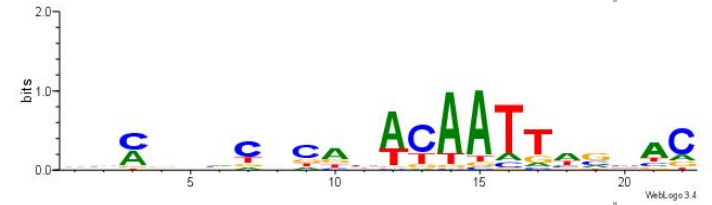
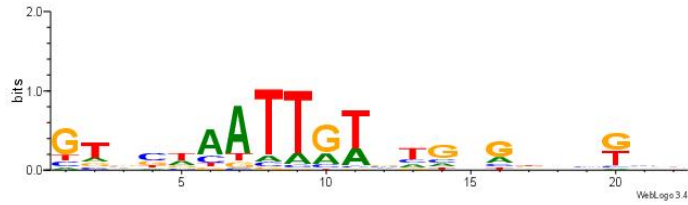
VVYDDDCHCAVACAATTDBVAC
---ABAAAAAAWHAAAAARAW-

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

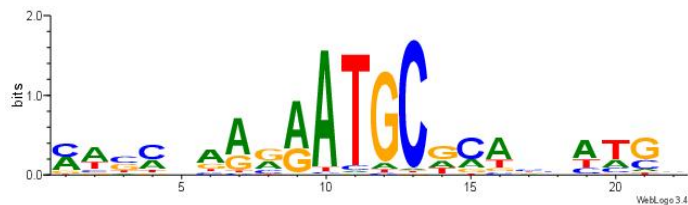
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



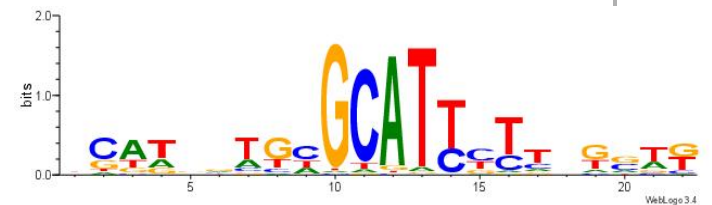
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0582891

Alignment:
 MWSMBAARRATGCD CABHATGD
 -ABAAAAA WHAAAAA RAW---

Original motif
 Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
 Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID: [UP00032](#)

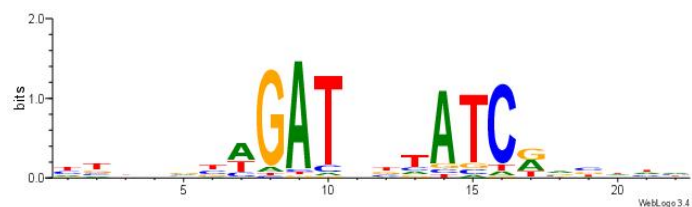
Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0594078

Alignment:

HBHDVBWGATHBTATCRVBHHH
 --ABAAAAAWhAAAAARAW--

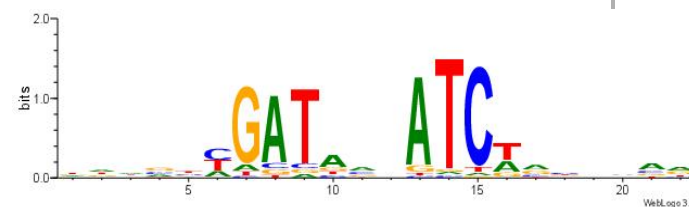
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVVH



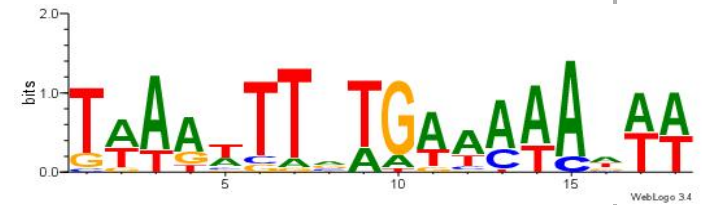
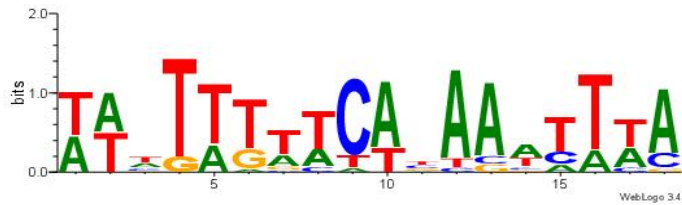
Dataset #: 5 Motif ID: 53 Motif name: TFM3

Original motif

Consensus sequence: WWHTTTTTTCABAAWTTWA

Reverse complement motif

Consensus sequence: TAAWTTVTGAAAAHWW



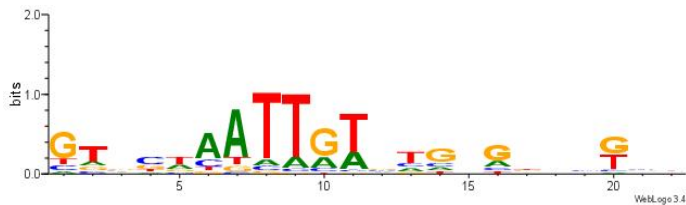
Best Matches for Motif ID 53 (Highest to Lowest)

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----

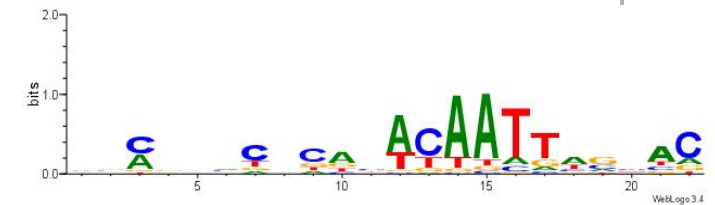
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



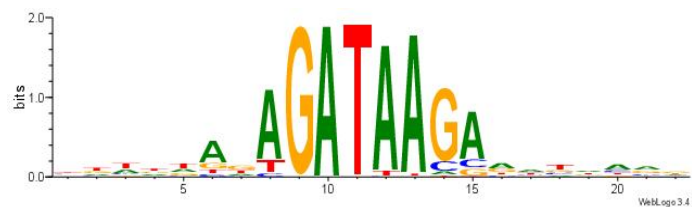
Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.065044

Alignment:

BDHDDADAGATAAGADHBDHVD
 ---WWHTTTTTTCABAATTWA-

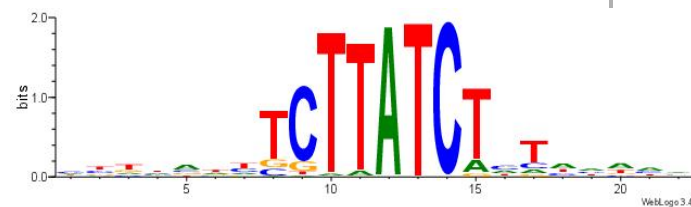
Original motif

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

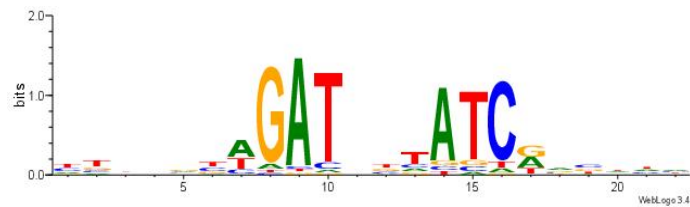
Number of overlap: 18
Similarity score: 0.0697095

Alignment:

HBHDVBWGATHBTATCRVBHHH
----WWHTTTTTTCABAAWTTWA

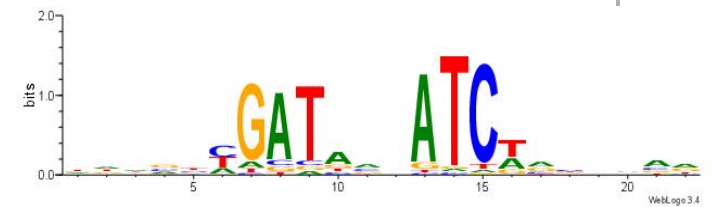
Original motif

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

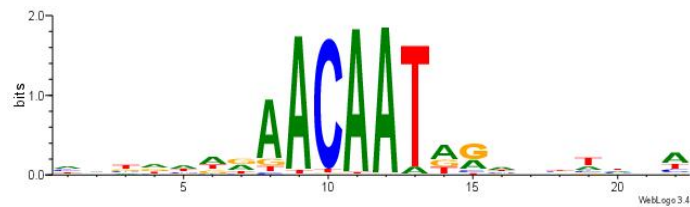
Alignment:

WBHHHHHMDATTGTTHDHDVHH
TWAAWTTVTGAAAAAHWW----

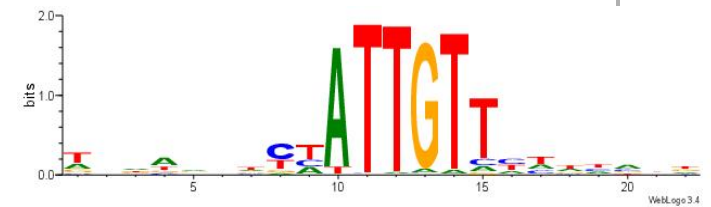
Original motif

Reverse complement motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



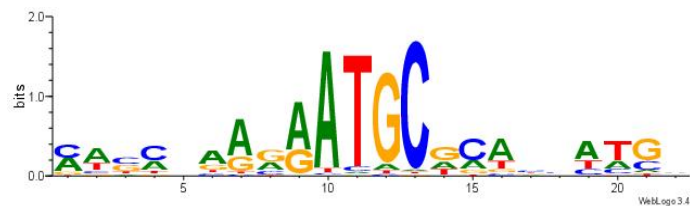
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.0731314

Alignment:

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

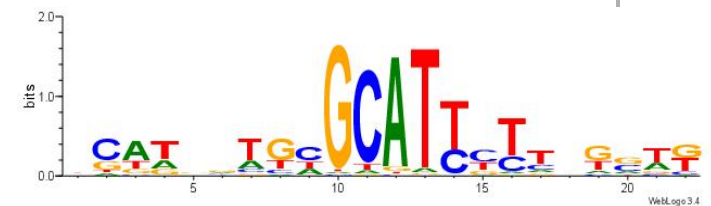
Original motif

Consensus sequence: MWSMBAARRATGDCABHATGD



Reverse complement motif

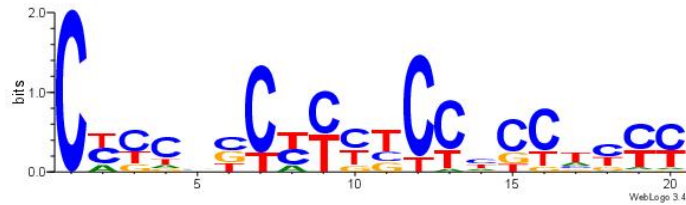
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

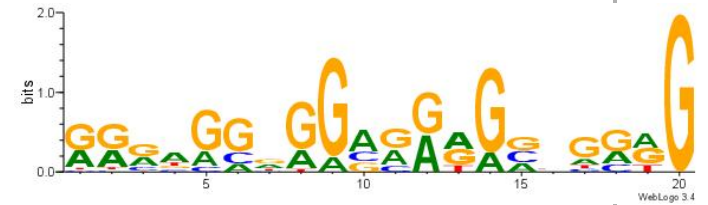
Original motif

Consensus sequence: CYYCBBCYYYTCCHCCTYYY



Reverse complement motif

Consensus sequence: KKKAGGDGGAKKMGBBGKMG



Best Matches for Motif ID 54 (Highest to Lowest)

Motif ID:	UP00539
Motif name:	Gli2_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0528574

Alignment:

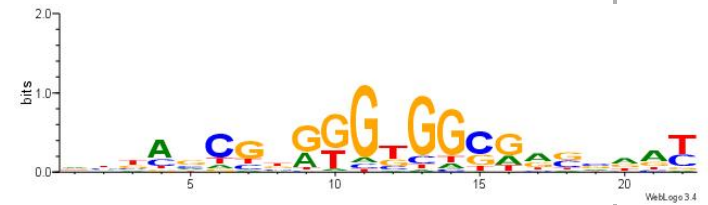
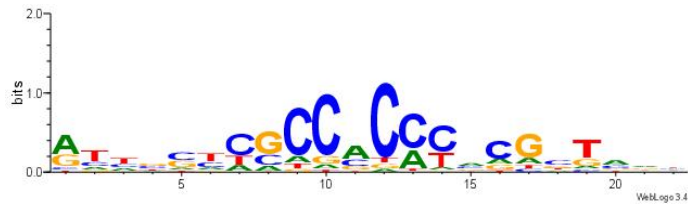
```
HDBABCGBKRGYGGCGMSBHAK  
--KKKAGGDGGAKKMGBBGKMG
```

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK

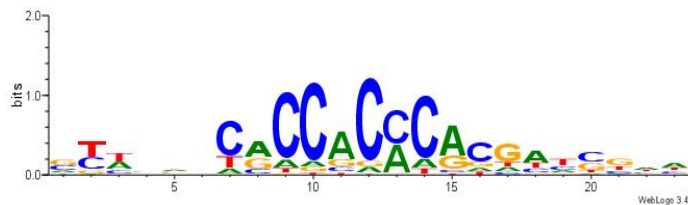


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0585594

Alignment:
 VYWVVHCRCCACMCACGAHSBHH
 CYYCBBCYYYTCCHCCTYYY---

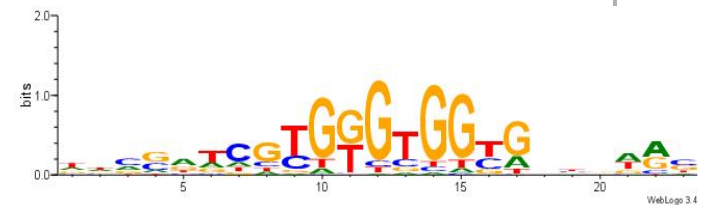
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDDBVWMV



Motif ID: [UP00538](#)

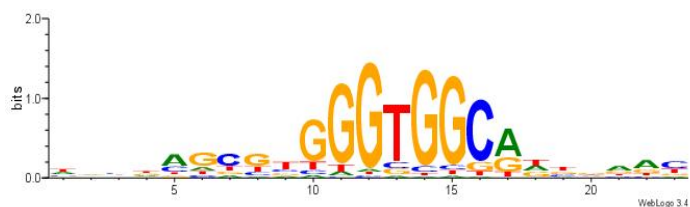
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0625384

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 -KKKAGGDGGAKKMGBBGKMG--

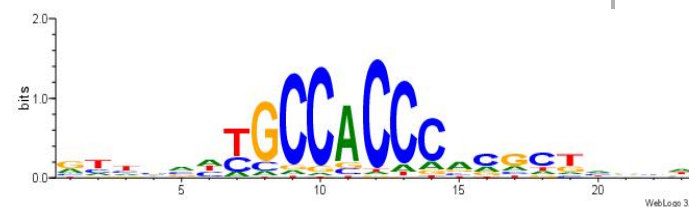
Original motif

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

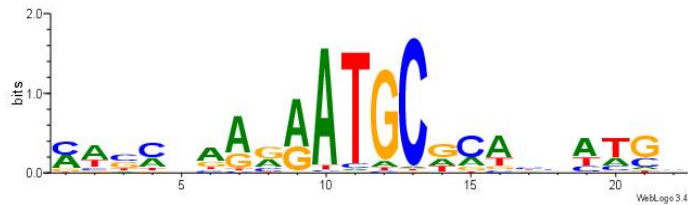
Similarity score: 0.0639685

Alignment:

DCATDBTGHGCATKMTTBRSWR
--KKKAGGDGGAKKMGBBGKMG

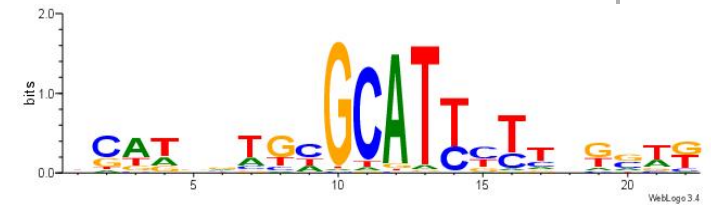
Original motif

Consensus sequence: MWSMBAARRATG CDCABHATGD



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:

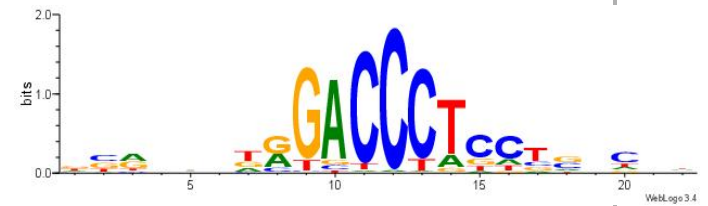
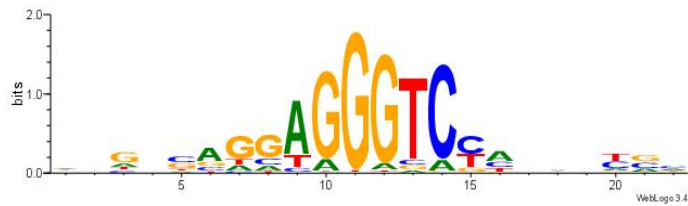
DVMHHDHKGACCCTCCTSVCBH
CYVCBBCYYYTCCHCCTYYY--

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

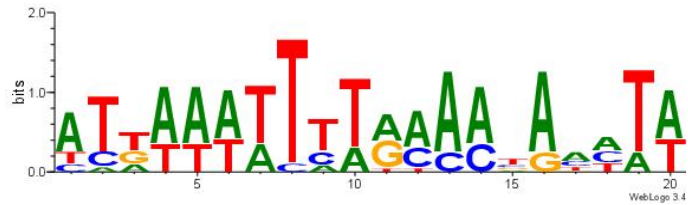
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



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

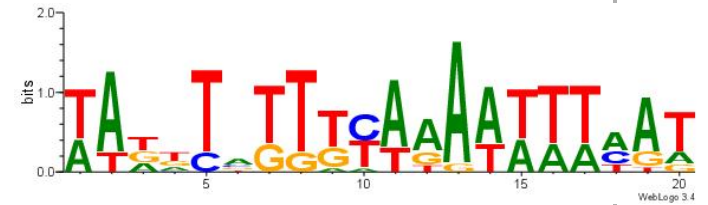
Original motif

Consensus sequence: ATKAAWTTTTRMAABAHTW



Reverse complement motif

Consensus sequence: WAHHTVTTYKAAAATTRAT



Best Matches for Motif ID 55 (Highest to Lowest)

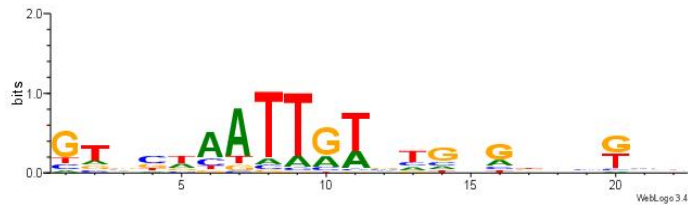
Motif ID:	UP00034
Motif name:	Sox7_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	20
Similarity score:	0.0556257

Alignment:

VVYDDDCHCAVACAATTDBVAC
-WAHHTVTTYKAAAATTRAT-

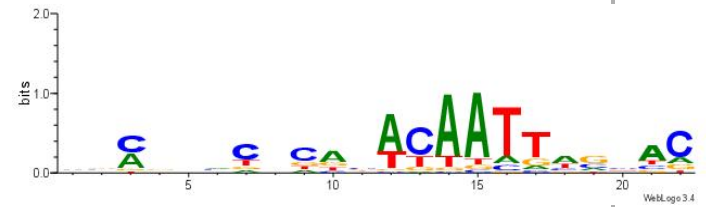
Original motif

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:

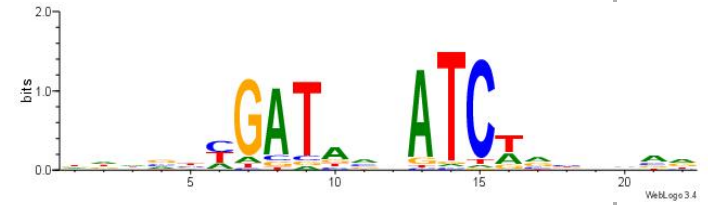
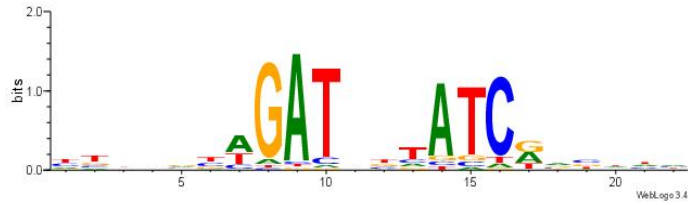
HHHBBMGATAVHATCWVVDHVH
-ATKAAWTTTTTRMAABAHTW-

Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

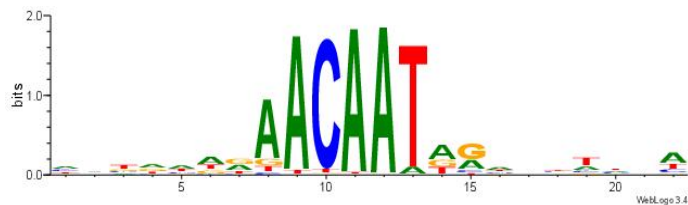
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



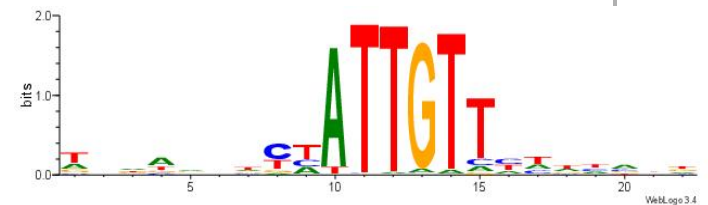
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.064945

Alignment:
 WBHHHHHMDATTGTTDHDVHH
 --WAHHTVTTYKAAAATTRAT

Original motif
 Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif
 Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00032](#)

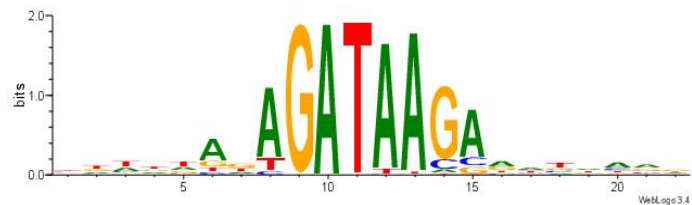
Motif name: Gata3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0651681

Alignment:

HBHDVHDTCTTATCTHTDDHDV
ATKAAWTTTTTRMAABAHHTW--

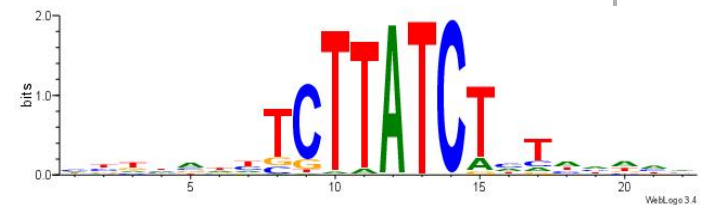
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



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

Similarity score:

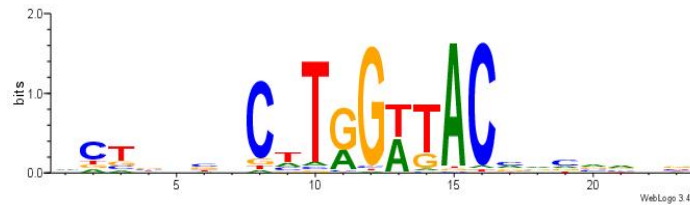
0.0670788

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
-ATKAAWTTTTTRMAABAHTW--

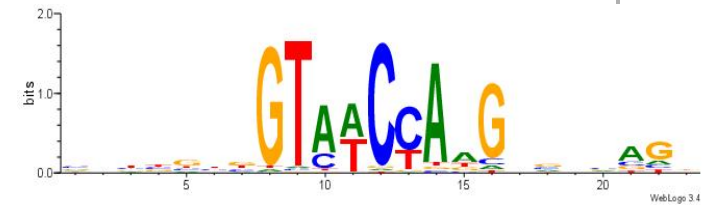
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVWWWVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



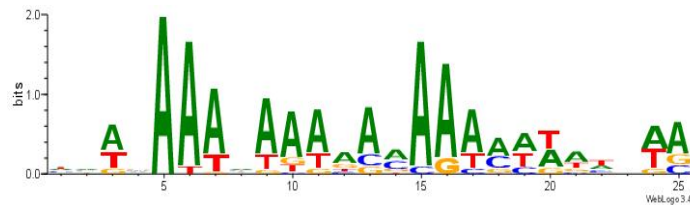
Dataset #: 5

Motif ID: 56

Motif name: TFM11

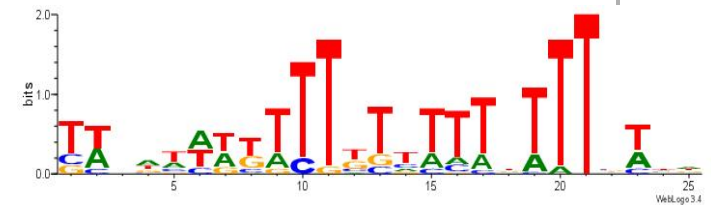
Original motif

Consensus sequence: HDWVAAAHAAAAAMAAAMWWWHBWA



Reverse complement motif

Consensus sequence: TWVHWWWYTTTTYTTTTHTTTTWW



Best Matches for Motif ID 56 (Highest to Lowest)

Motif ID:	UP00098
Motif name:	Rfx3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

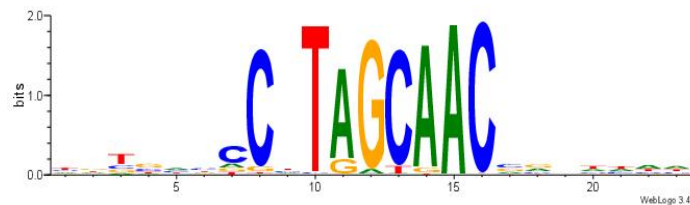
Direction: Backward
Position number: 2
Number of overlap: 23
Similarity score: 0.0760601

Alignment:

--HDTBHHCCHTAGCAACVVDHHHH
HDWVAAAHA AAAA MAAA MWWWHBWA-

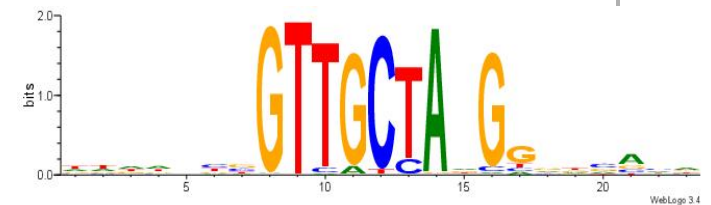
Original motif

Consensus sequence: HDTBHHCCHTAGCAACVVDHHHH



Reverse complement motif

Consensus sequence: HHHHDVVGTTGCTAHGGDHBAAH



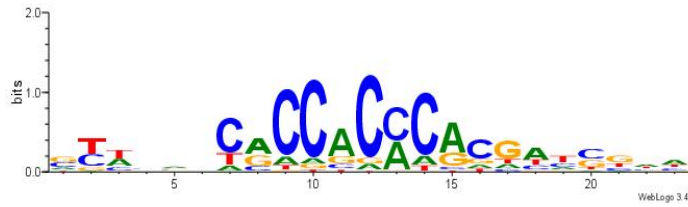
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 23
Similarity score: 0.0803516

Alignment:

VYWVVHCRCCACMCACGAHSBHH--
HDWVAAAHA AAAA MAAA MWWWHBWA

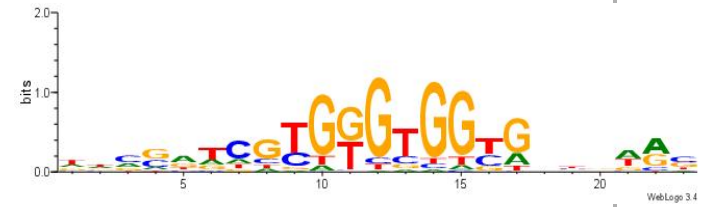
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGK GDBVWMMV



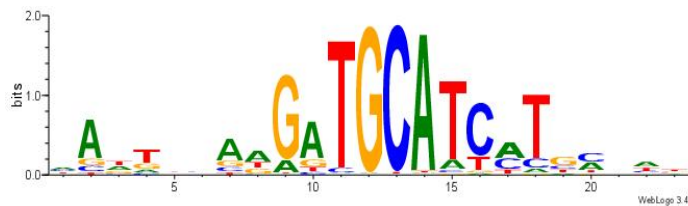
Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 23
 Similarity score: 0.0808735

Alignment:

HADTBVADGATGCATCMTGMVHB--
 -HDWVAAAHAAAAAAMAAAMWWWHBWA

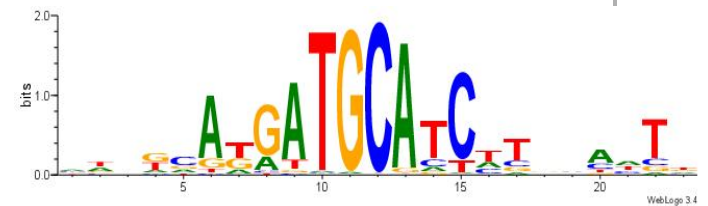
Original motif

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

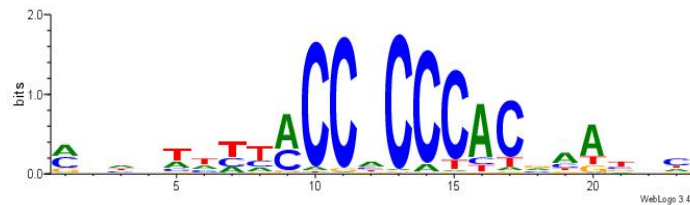
Alignment:

```

--MHHHWHYTMCCCHCCCACVAABVH
HDWVAAAHA AAAA MAAA MWWWHBWA--
  
```

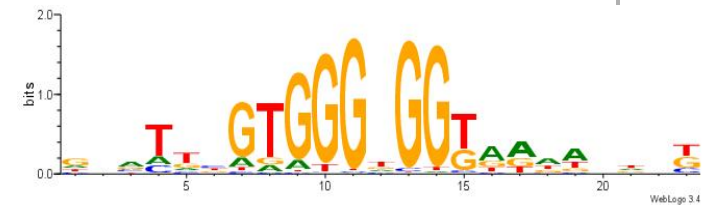
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



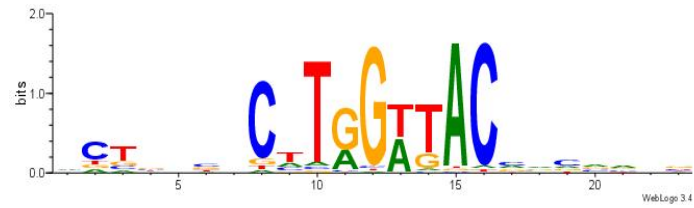
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0813067

Alignment:

```
VCTBHBVCTTGGWTACVVVVVDB--  
HDWVAAAHA AAAA MAAAMWWWHBWA
```

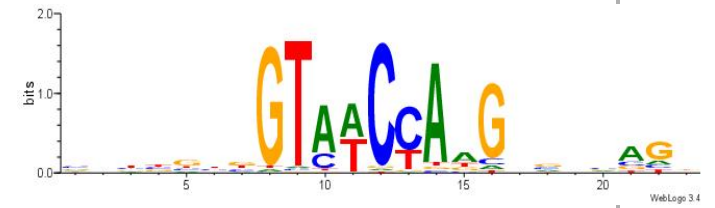
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



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Runtime: 329.933 seconds

MOTIFSIM is written by Ngoc Tam L. Tran
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