



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters

Number of files:	4
Number of top significant motifs:	10
Number of best matches:	5
Similarity cutoff $\geq$	0.75
Matching motif database:	UniProbe Mus Musculus
Phylogenetic tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM01.txt	51	1
MEME-CHIP_DM01.txt	9	2
PScanChIP_DM01.txt	27	3
RSAT_peak-motifs_DM01.txt	40	4

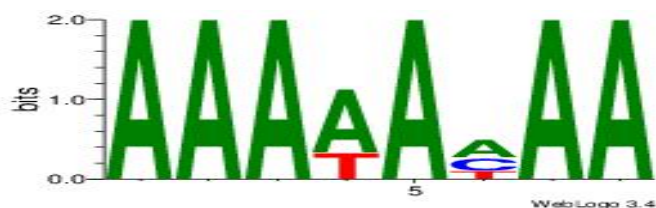
RESULTS

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

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

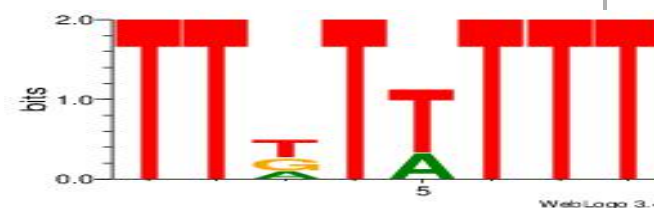
Original motif

Consensus sequence: AAAAAAA



Reverse complement motif

Consensus sequence: TTTTTTT



Best Matches for Motif ID 1 (Highest to Lowest)

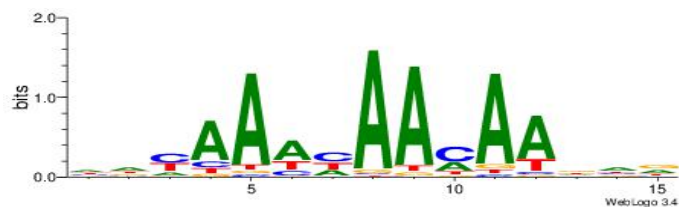
Motif ID:	UP00037
Motif name:	Zfp105_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0145772

Alignment:

```
HDYAAHAAMAADHD
----AAAAA---
```

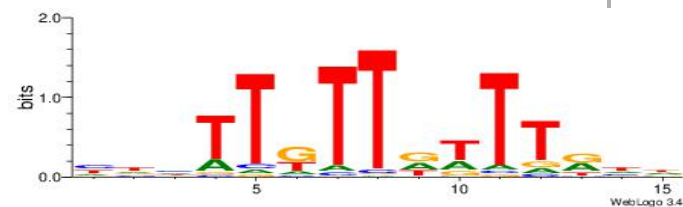
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTRTTDTTTKDH



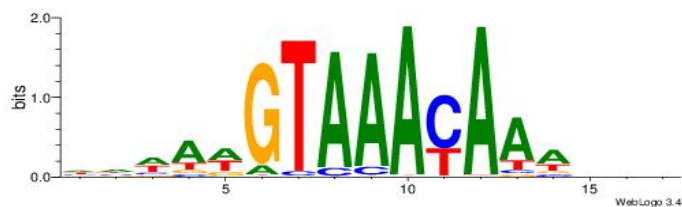
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0169399

Alignment:

HHWAWGTAAAYAAVDB
 -----AAAAA---

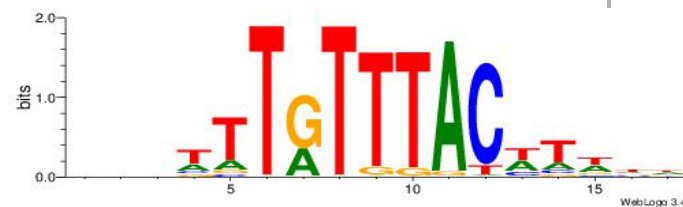
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



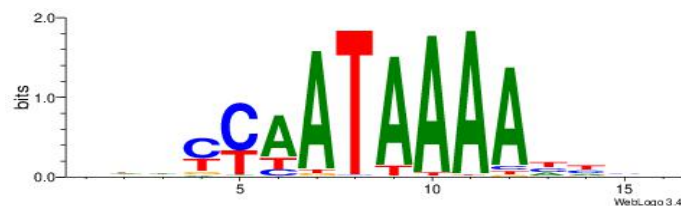
Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0190253

Alignment:

HDHHTTTTATTKKHDD
 ----TTYTTTTT----

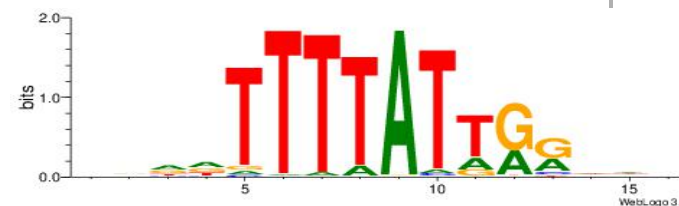
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



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

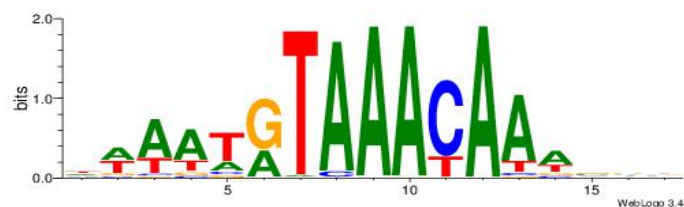
Position number: 3
Number of overlap: 8
Similarity score: 0.0193071

Alignment:

DWAATRТАААCAAWVVB
-----AAAAАAA--

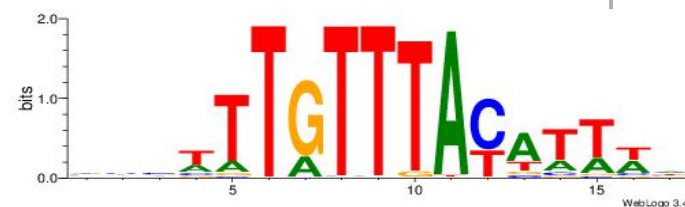
Original motif

Consensus sequence: DWAATRТАААCAAWVVB



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



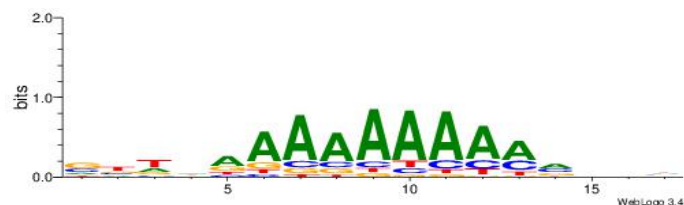
Motif ID: [UP00077](#)
Motif name: Srf_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 8
Similarity score: 0.0203043

Alignment:

HHVBYTTTTTTTTTDDVV
----TTYTTTTT-----

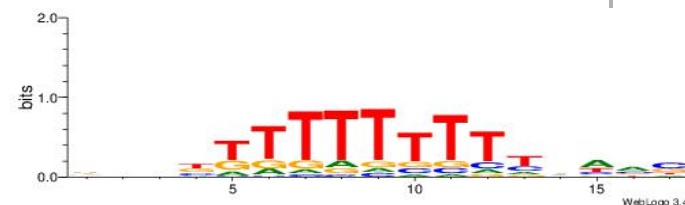
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



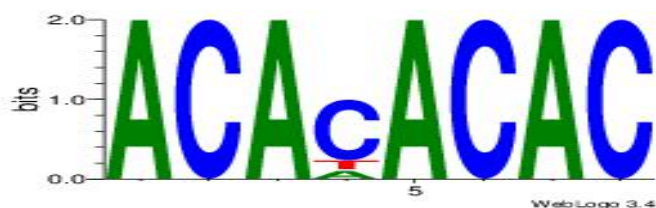
Dataset #: 1

Motif ID: 2

Motif name: Motif 2

Original motif

Consensus sequence: ACACACAC



Reverse complement motif

Consensus sequence: GTGTGTGT



Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID:	UP00042
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0

Alignment:

DVMVGCACACACKCVH

-----ACACACAC-----

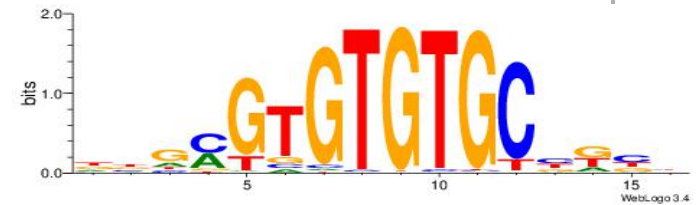
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID:	UP00026
Motif name:	Zscan4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0334619

Alignment:

HVHRGCACACAAHHHV

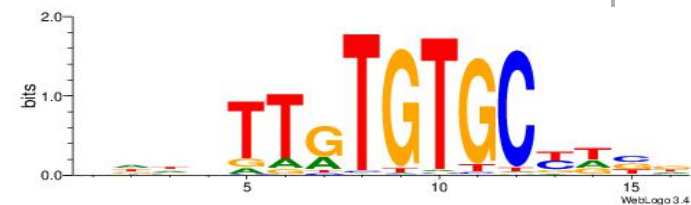
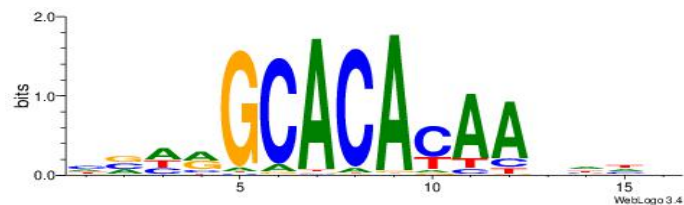
-----ACACACAC-----

Original motif

Consensus sequence: HVHRGCACACAAHHHV

Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD

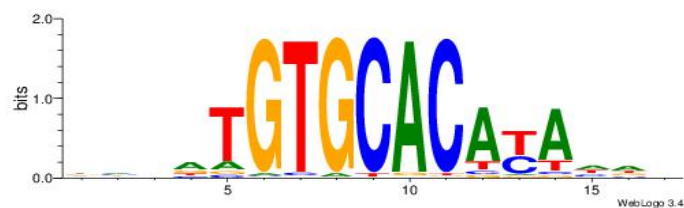


Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10
 Number of overlap: 8
 Similarity score: 0.0433815

Alignment:
 DHVDTGTGCACAYAH DH
 -----ACACACAC

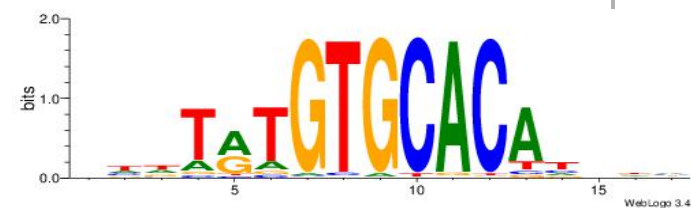
Original motif

Consensus sequence: DHVDTGTGCACAYAH DH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID: [UP00540](#)

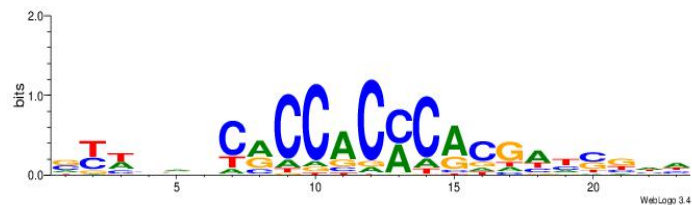
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0444986

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -----ACACACAC-----

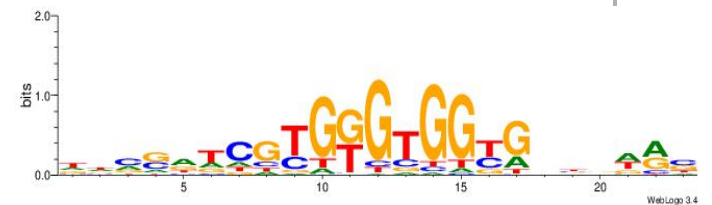
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00042](#)
 Motif name: Gm397_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8

Similarity score: 0.0453671

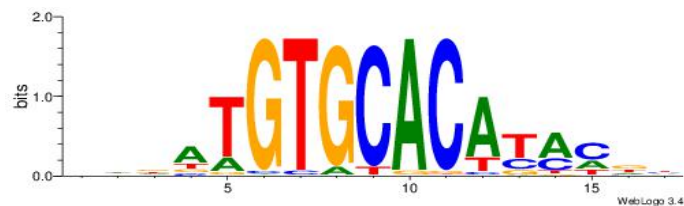
Alignment:

HHDATGTGCACATAMDH

-----ACACACAC--

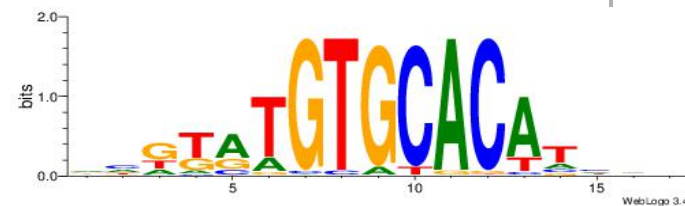
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



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

Original motif

Consensus sequence: AWATAMA



Reverse complement motif

Consensus sequence: TYTATWT



Best Matches for Motif ID 3 (Highest to Lowest)

Motif ID: [UP00180](#)
Motif name: Hoxd13
Species: Mus musculus
Matching format of first motif: Reverse Complement

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

Alignment:

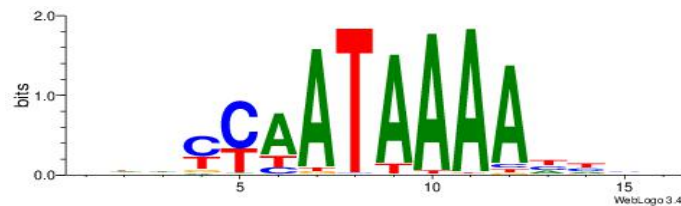
```

HDHHTTTTATTKKHDD
-----TYTATWT-----

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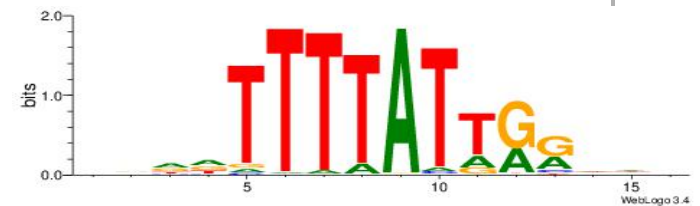
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



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

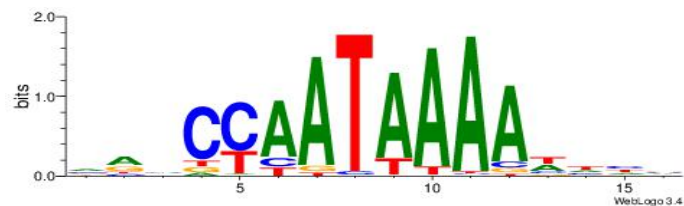
Alignment:

VDHWTTTTATTGGDKB

-----TYTATWT-----

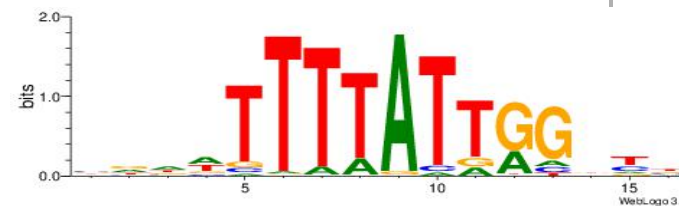
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



Motif ID: [UP00121](#)
Motif name: Hoxd10
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 7
Similarity score: 0.0124058

Alignment:

HDDDATTTTATTKVRDB

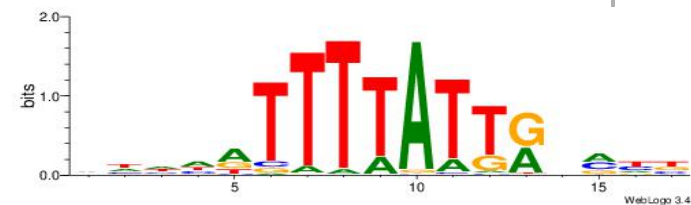
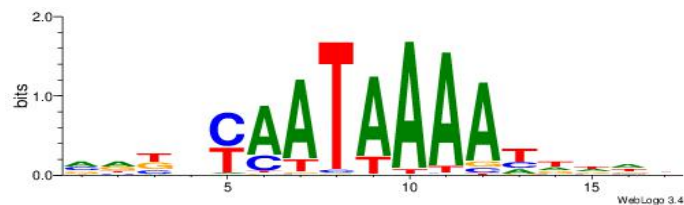
-----TYTATWT-----

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

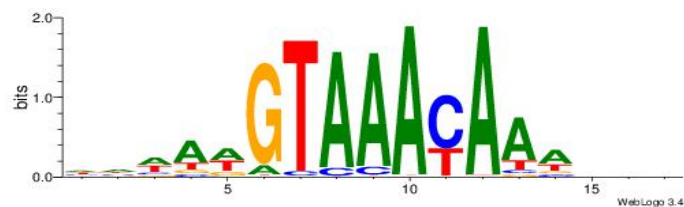


Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 7
 Similarity score: 0.0126252

Alignment:
 HHWAWGTAAAYAAVDB
 -----AWATAMA----

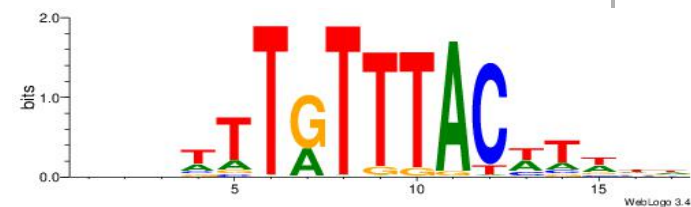
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

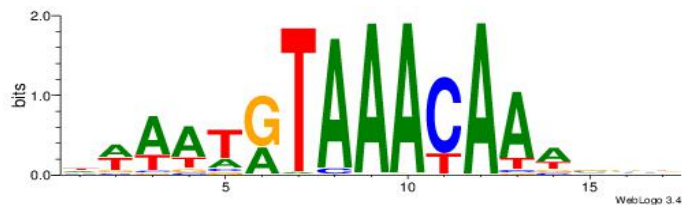


Motif ID: [UP00061](#)

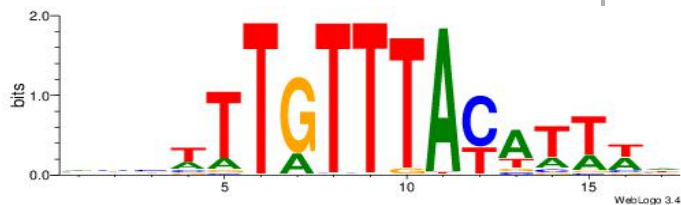
Motif name: Foxl1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 7
Similarity score: 0.0146887

Alignment:
DWAATRТАААСААWVVB
---AWATAMA-----

Original motif
Consensus sequence: DWAATRТАААСААWVVB



Reverse complement motif
Consensus sequence: VVVWTTGTTTAMATTWD



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

Original motif
Consensus sequence: GAGRMAGR

Reverse complement motif
Consensus sequence: KCTRMCTC



Best Matches for Motif ID 4 (Highest to Lowest)

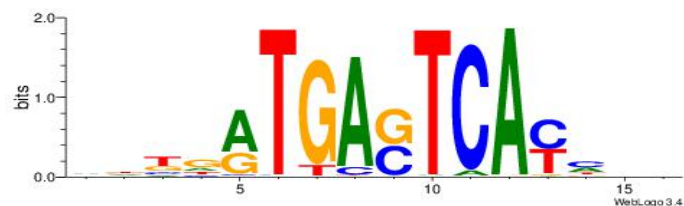
Motif ID: [UP00103](#)
 Motif name: Jundm2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0033755

Alignment:

VDKDRTGASTCAYHDH
 ---KCTRMCTC-----

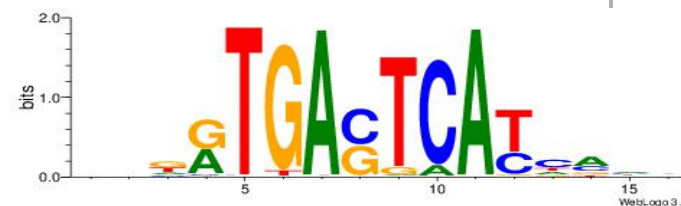
Original motif

Consensus sequence: VDKDRTGASTCAYHDH



Reverse complement motif

Consensus sequence: HDDKTGASTCAKHRDB

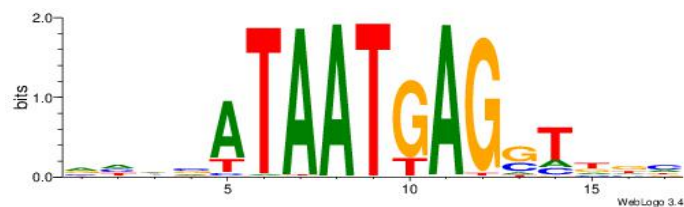


Motif ID: [UP00146](#)
 Motif name: Pou6f1_3733.1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 10
 Number of overlap: 8
 Similarity score: 0.00747412

Alignment:
 DHDASCTCATTATVHHB
 KCTRMCTC-----

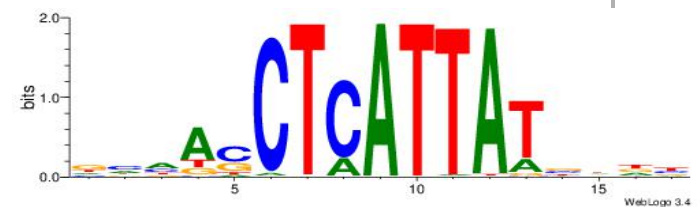
Original motif

Consensus sequence: VHHVATAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTATVHHB



Motif ID: [UP00044](#)
 Motif name: Mafk_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8

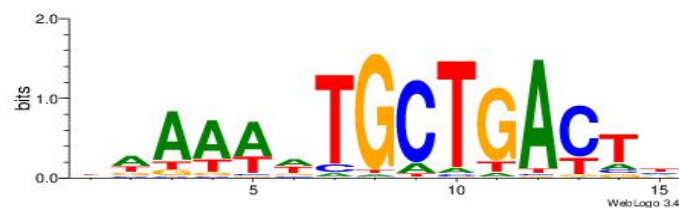
Number of overlap: 8
Similarity score: 0.00896059

Alignment:

DWAAAWTGCTGACTH
-----KCTRMCTC

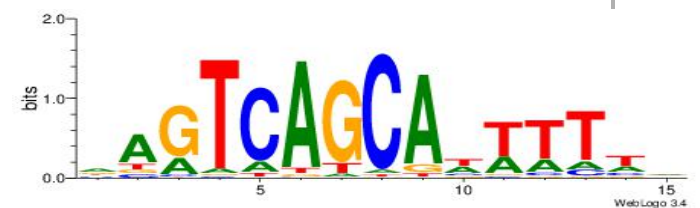
Original motif

Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



Motif ID: [UP00045](#)
Motif name: Mafb_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0112412

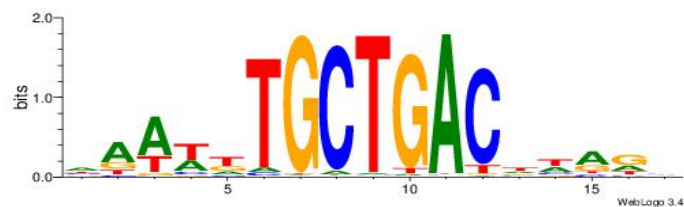
Alignment:

HAAWDTGCTGACDWARH
-----KCTRMCTC---

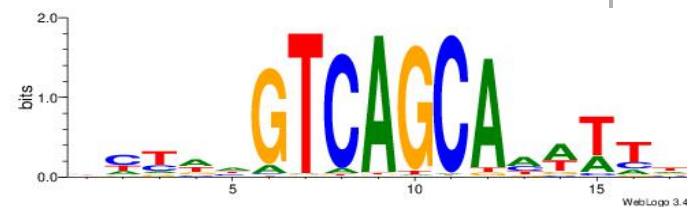
Original motif

Reverse complement motif

Consensus sequence: HAAWDTGCTGACDWARH



Consensus sequence: DMTWDGTCAGCADWTTH

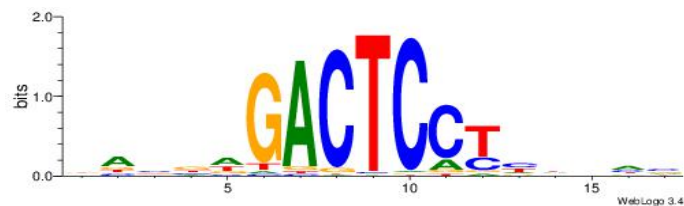


Motif ID: [UP00095](#)
Motif name: Zfp691_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0122072

Alignment:
DABBWGACTCCTHDVHV
--KCTRMCTC-----

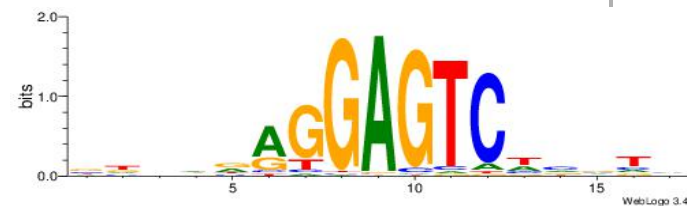
Original motif

Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



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

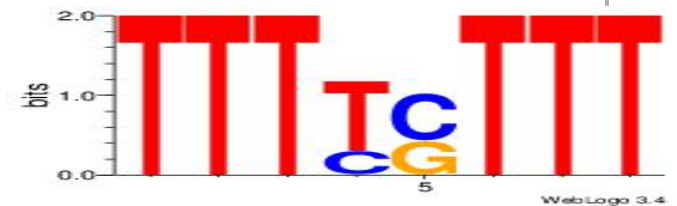
Original motif

Consensus sequence: AAASAAAA



Reverse complement motif

Consensus sequence: TTTTSTTT



Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID:	UP00025
Motif name:	Foxk1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.00219483

Alignment:

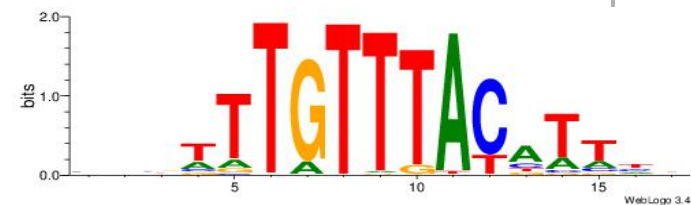
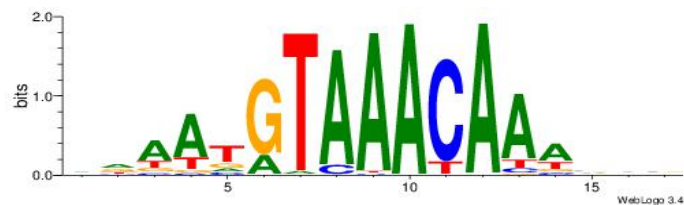
```
DDAATGTAAACAAAVVB  
-----AAASAAAA--
```

Original motif

Consensus sequence: DDAATGTAAACAAAVVB

Reverse complement motif

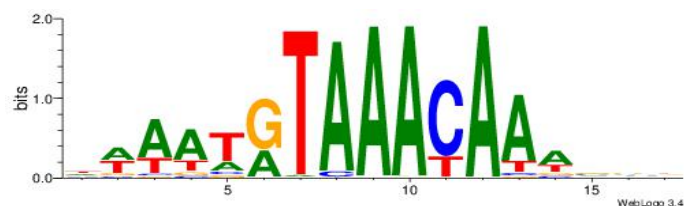
Consensus sequence: BBVTTTGTTTACATTDD



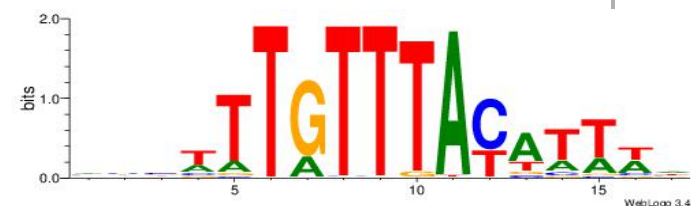
Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.00387372

Alignment:
 DWAATRTAAACA...WVVB
 -----AAASAAAA--

Original motif
 Consensus sequence: DWAATRTAAACA...WVVB



Reverse complement motif
 Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00039](#)

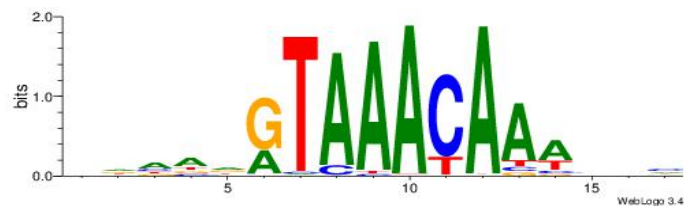
Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.00467517

Alignment:

HDHADGTAAACAAAVVH
 -----AAASAAAA--

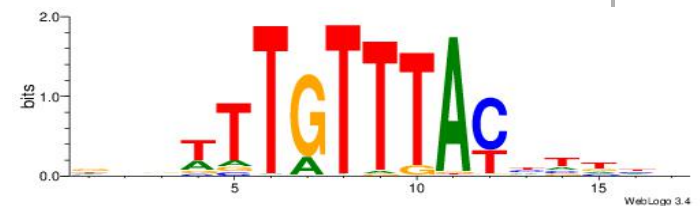
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00074](#)
 Motif name: Isgf3g_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8

Similarity score: 0.00612789

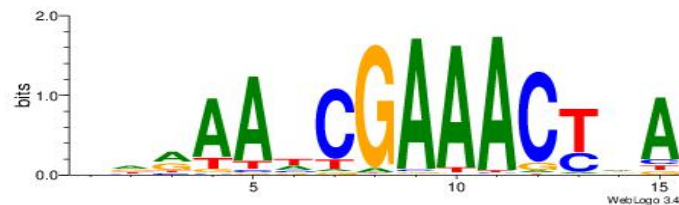
Alignment:

VDRAAWCGAAACTDA

---AAASAAAA----

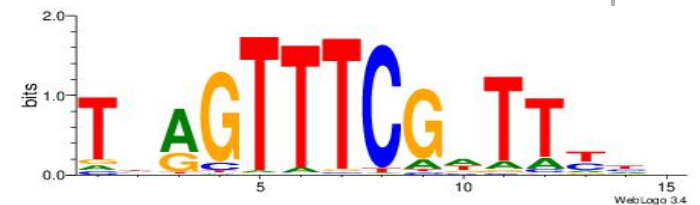
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



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: 5

Number of overlap: 8

Similarity score: 0.00632029

Alignment:

HDHHTTTTATTKHDD

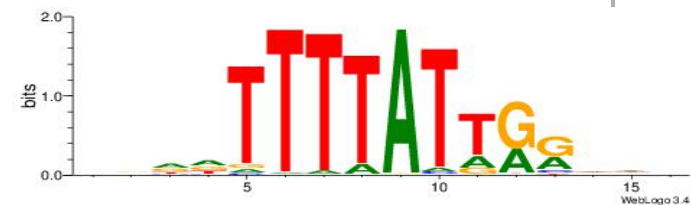
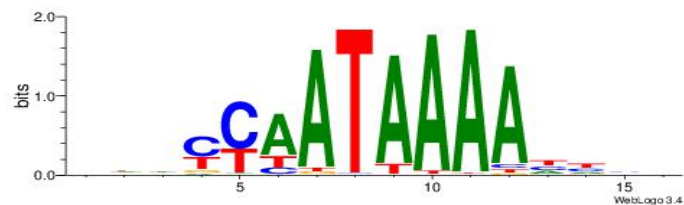
----TTTTSTTT----

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKHDD



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

Original motif

Consensus sequence: CCCASCMC



Reverse complement motif

Consensus sequence: GYGSTGGG



Best Matches for Motif ID 6 (Highest to Lowest)

Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.00921145

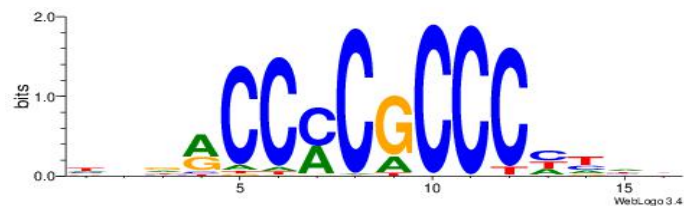
Alignment:

HDRCCMCGCCCHHD

----CCASC MC----

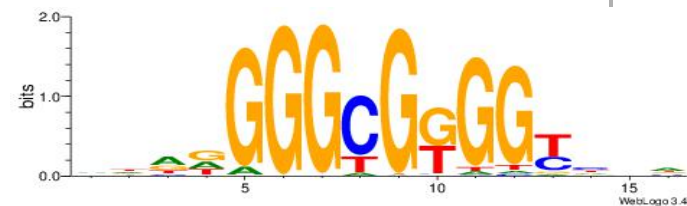
Original motif

Consensus sequence: HDRCCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHGGGGCGGGKHBH



Motif ID:	UP00539
Motif name:	Gli2_v016060_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	13
Number of overlap:	8
Similarity score:	0.00924564

Alignment:

DBCDWHCTGGGTGGTCMDHBBAH

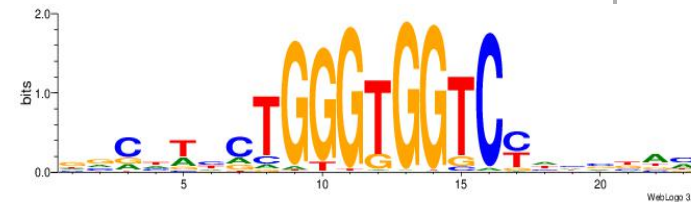
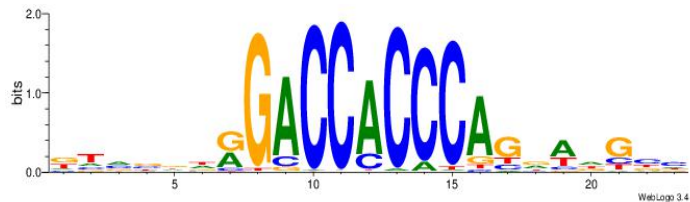
---GYGSTGGG-----

Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH

Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH

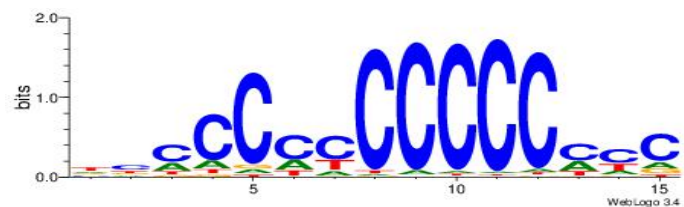


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0121799

Alignment:
 DBCCCCCCCCCMYC
 --CCCASCMC-----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGBD



Motif ID: [UP00033](#)

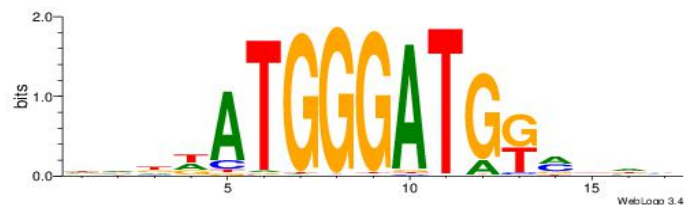
Motif name: Zfp410_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.014495

Alignment:

BDDYYCATCCCATDDBD
 ---CCASC MC-----

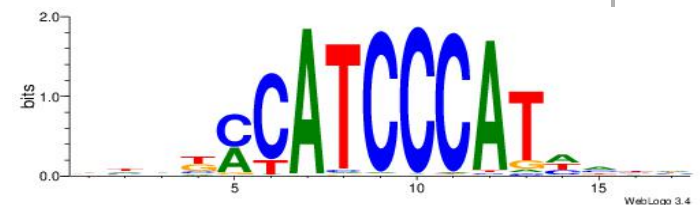
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8

Similarity score: 0.0175119

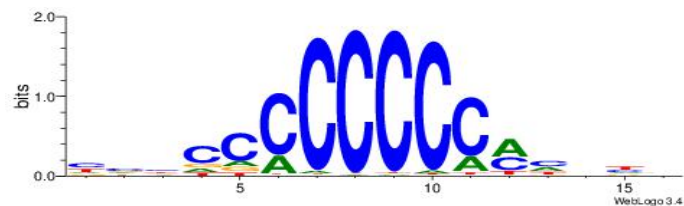
Alignment:

BHHDYGGGGGGGGBVD

---GYGSTGGG-----

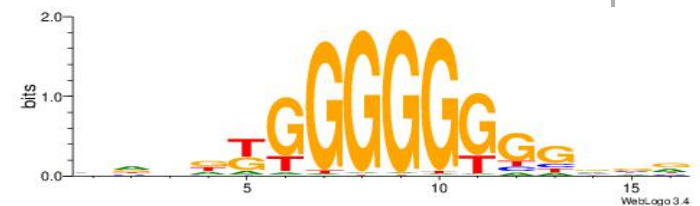
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



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

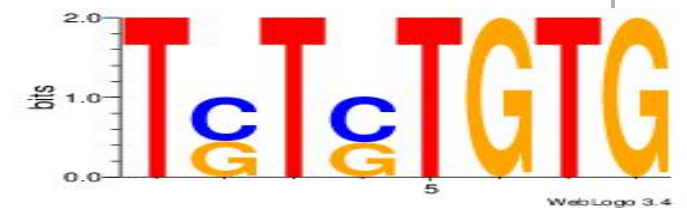
Original motif

Consensus sequence: CACASASA



Reverse complement motif

Consensus sequence: TSTSTGTG



Best Matches for Motif ID 7 (Highest to Lowest)

Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Reverse Complement

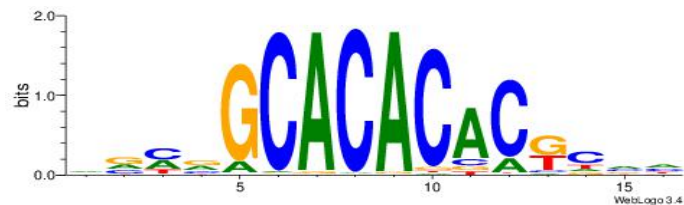
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:

```
HBGYGTGTGTGCVRVD
---TSTSTGTG-----
```

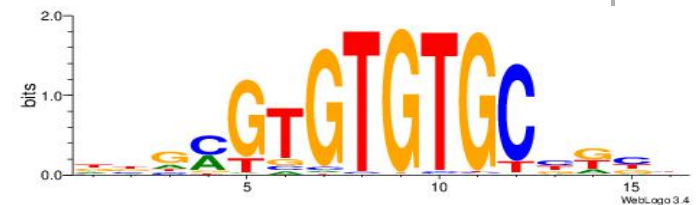
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



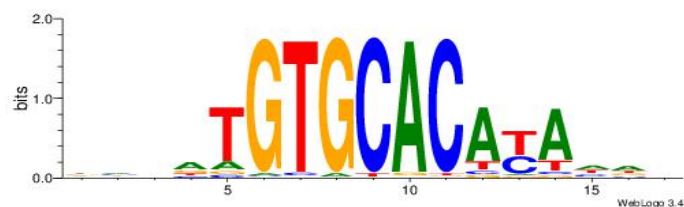
Motif ID:	UP00026
Motif name:	Zscan4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0113361

Alignment:

DHVDTGTGCACAYAHDH
-----CACASASA--

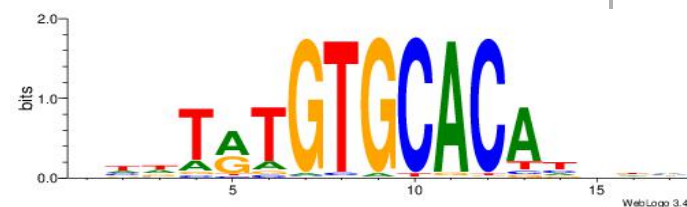
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID:	UP00026
Motif name:	Zscan4_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0137391

Alignment:

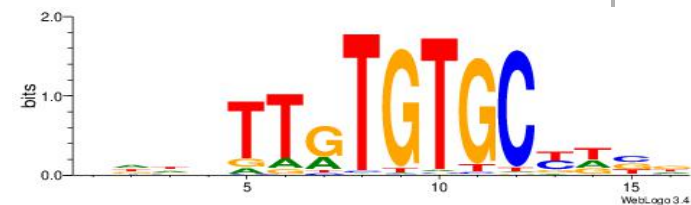
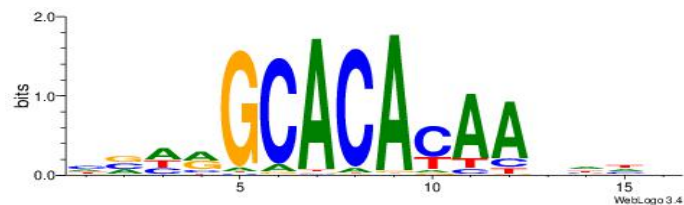
BHHHTTGTGTGCKHVD
---TSTSTGTG-----

Original motif

Consensus sequence: HVHRGCACACAAHHHV

Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD

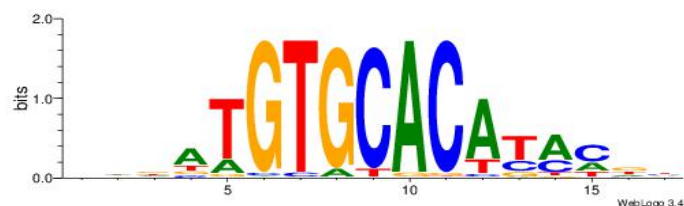


Motif ID: [UP00042](#)
 Motif name: Gm397_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0176592

Alignment:
 HHRTATGTGCACATHHD
 -TSTSTGTG-----

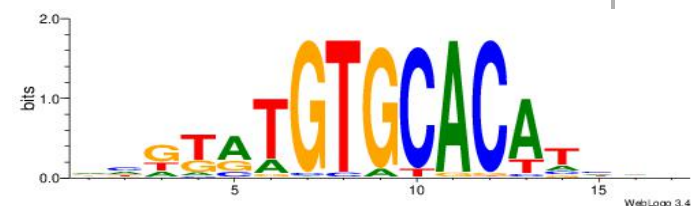
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD

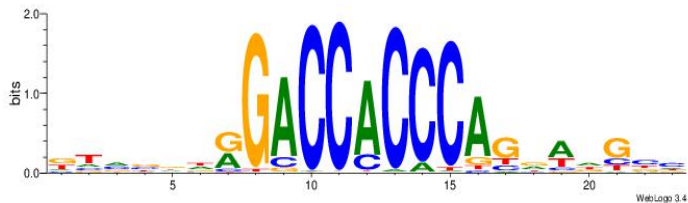


Motif ID: [UP00539](#)

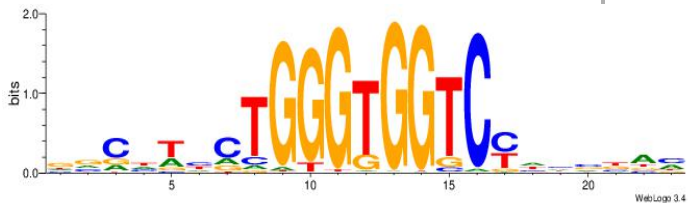
Motif name: Gli2_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 11
Number of overlap: 8
Similarity score: 0.0259903

Alignment:
DTVBD DRGACCACCCAGDWDGBH
-----CACASASA-----

Original motif
Consensus sequence: DTVBD DRGACCACCCAGDWDGBH



Reverse complement motif
Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



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

Original motif
Consensus sequence: CTGGCYTY

Reverse complement motif
Consensus sequence: KAKGCCAG



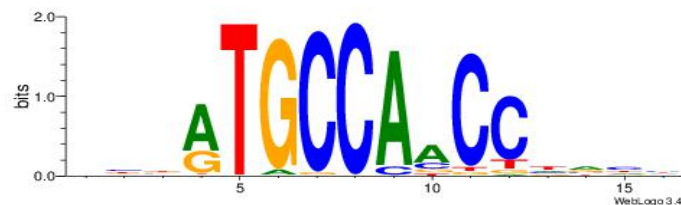
Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID: [UP00035](#)
 Motif name: Hic1_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: 8
 Similarity score: 0

Alignment:
 DBBATGCCAACCHVHH
 --KAKGCCAG-----

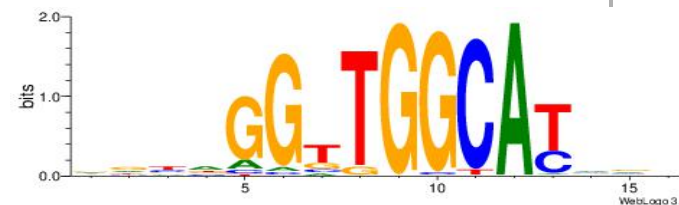
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



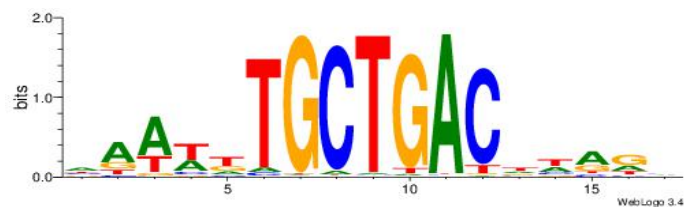
Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.00800487

Alignment:

DMTWDGTCAGCADWTTH
 --KAKGCCAG-----

Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



Motif ID: [UP00092](#)
 Motif name: Myb_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8

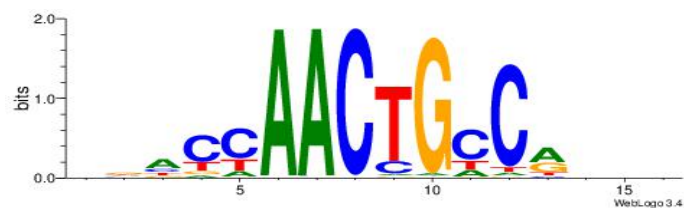
Number of overlap: 8
Similarity score: 0.013567

Alignment:

DBVKGGCAGTTGGTHB
-KAKGCCAG-----

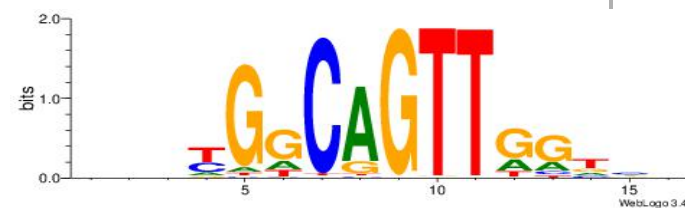
Original motif

Consensus sequence: BDACCAACTGCCRBH



Reverse complement motif

Consensus sequence: DBVKGGCAGTTGGTHB



Motif ID: [UP00066](#)
Motif name: Hnf4a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 8
Similarity score: 0.0148191

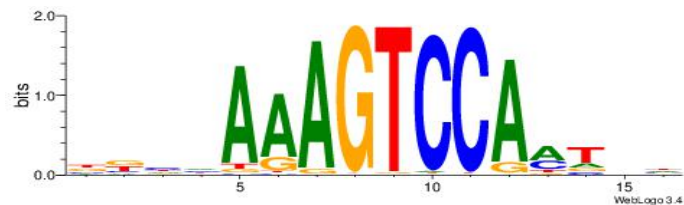
Alignment:

HHAYTGGACTTTHDBV
---CTGGCYTY-----

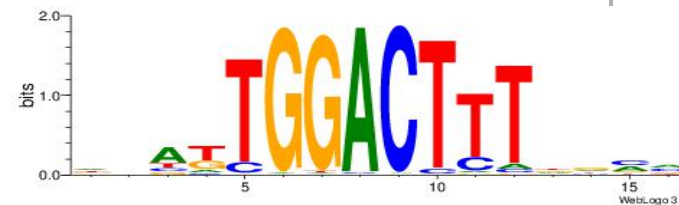
Original motif

Reverse complement motif

Consensus sequence: BBHHAAAGTCCAMTHH



Consensus sequence: HHAYTGGACTTTTHDBV



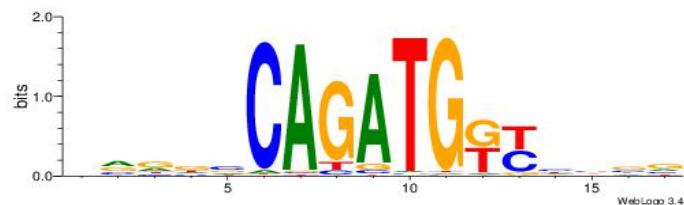
Motif ID: [UP00046](#)
Motif name: Tcfe2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 8
Similarity score: 0.0155988

Alignment:

```
VBBDMYCATCTGVHHBH  
-----CTGGCYTY
```

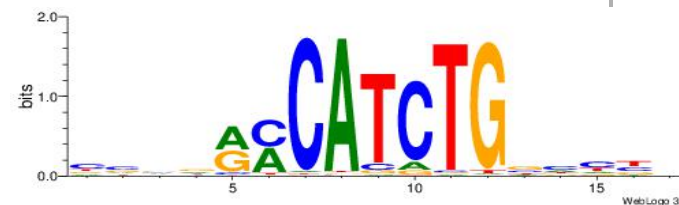
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

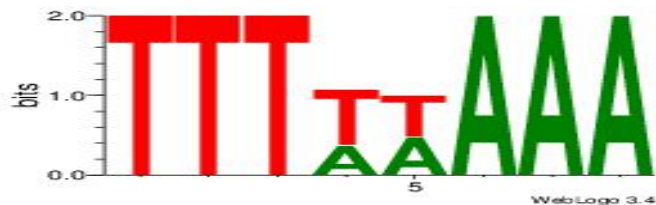
Consensus sequence: VBBDMYCATCTGVHHBH



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

Original motif

Consensus sequence: TTTWWAAA



Reverse complement motif

Consensus sequence: TTTWWAAA



Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	UP00061
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0127432

Alignment:

VVWTTGTTTAMATTWD

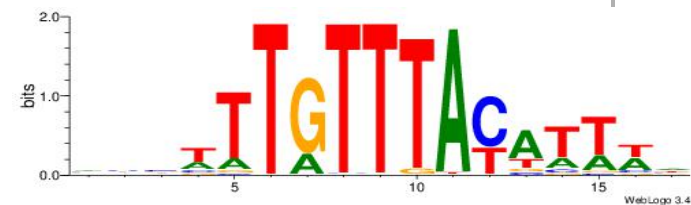
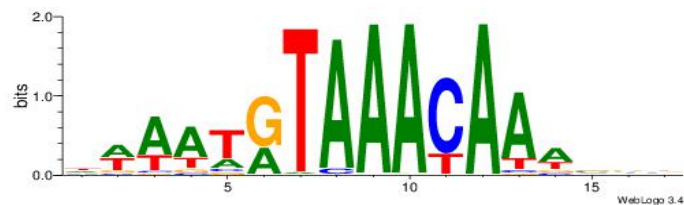
-----TTWWAAA-----

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

Consensus sequence: VVWTTGTTTAMATTWD

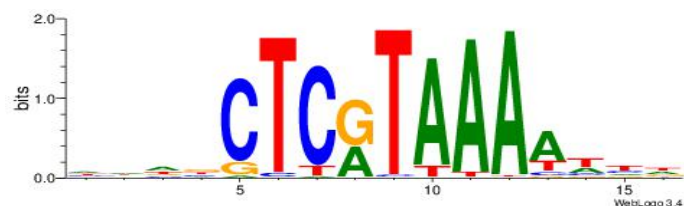


Motif ID: [UP00173](#)
 Motif name: Hoxc13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0173675

Alignment:
 DHWTTTAMGAGBDHH
 ---TTTWAAA-----

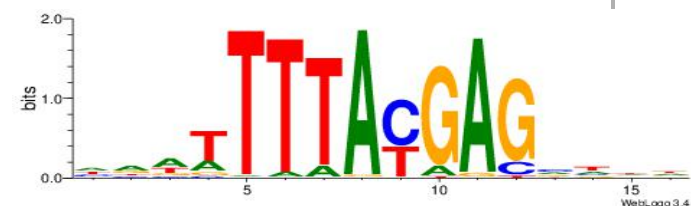
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH



Motif ID: [UP00246](#)

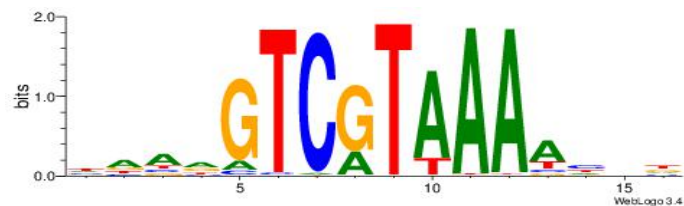
Motif name: Hoxa11
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0197493

Alignment:

DDDTTTACGACDTH
 ---TTTWAAA-----

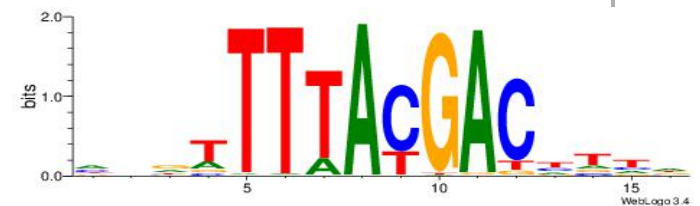
Original motif

Consensus sequence: HDADGTCGTAAAHDD



Reverse complement motif

Consensus sequence: DDDTTTACGACDTH



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

Similarity score: 0.0215252

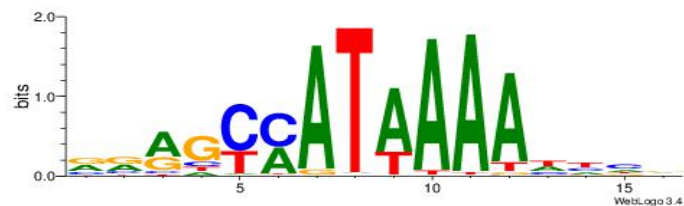
Alignment:

HDHHTTTTATRGCKMV

---TTTWAAA-----

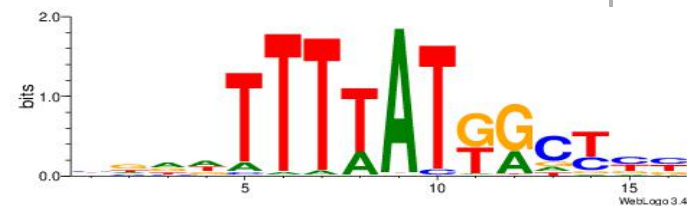
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID: [UP00025](#)

Motif name: Foxk1_primary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 6

Number of overlap: 8

Similarity score: 0.0221208

Alignment:

BBVTTTGTTTACATTDD

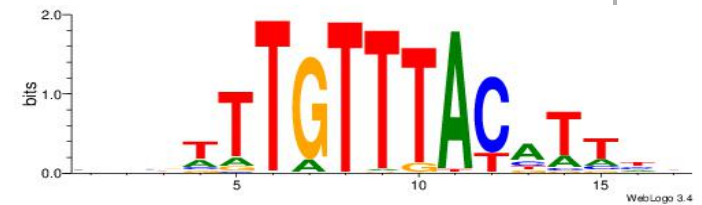
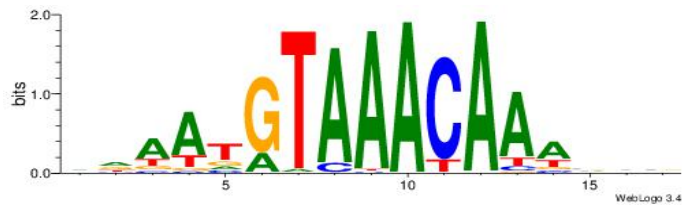
-----TTTWAAA-----

Original motif

Consensus sequence: DDAATGTAAACAAVVB

Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



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

Original motif

Consensus sequence: HTACATA



Reverse complement motif

Consensus sequence: TATGTAD



Best Matches for Motif ID 10 (Highest to Lowest)

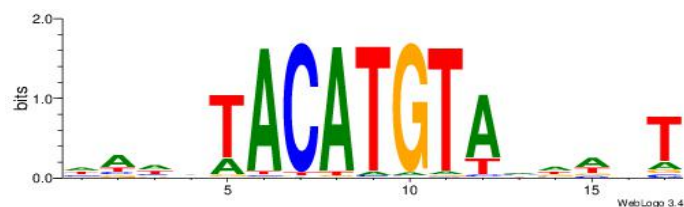
Motif ID:	UP00150
Motif name:	Irx6
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	7
Similarity score:	0

Alignment:

AHWDBTACATGTADHTH
-----TATGTAD----

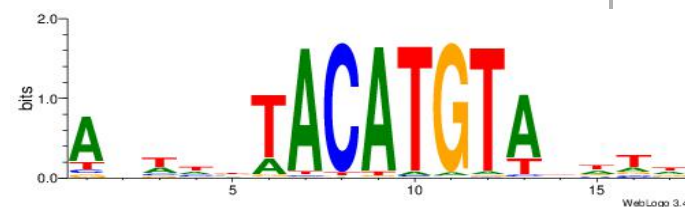
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



Motif ID:	UP00236
Motif name:	Irx2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	7
Similarity score:	0.00149929

Alignment:

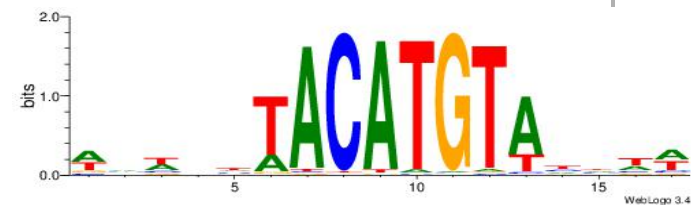
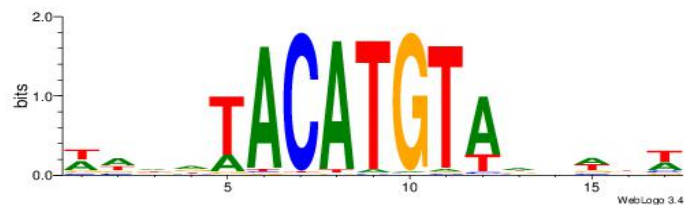
WVWDDTACATGTADDDW
-----TATGTAD----

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WVWDDTACATGTADDDW

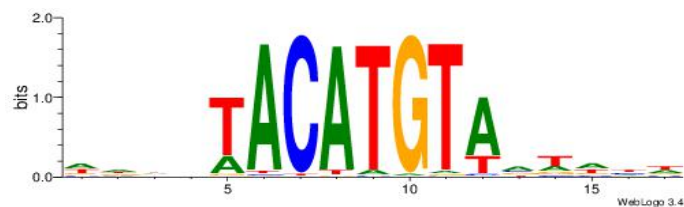


Motif ID: [UP00223](#)
 Motif name: Irx3_2226.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.00245891

Alignment:
 DDDHTACATGTAVWDHD
 ---HTACATA-----

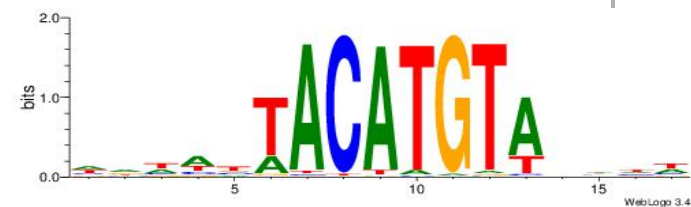
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



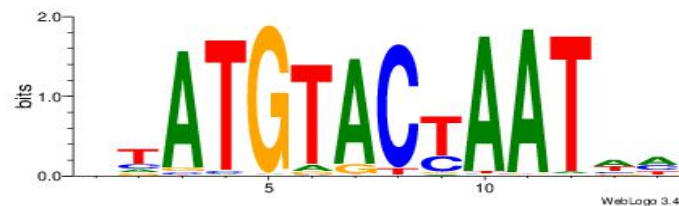
Motif ID: [UP00082](#)

Motif name: Zfp187_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 7
 Similarity score: 0.00347154

Alignment:
 HWATTAGTACATAV
 -----HTACATA-

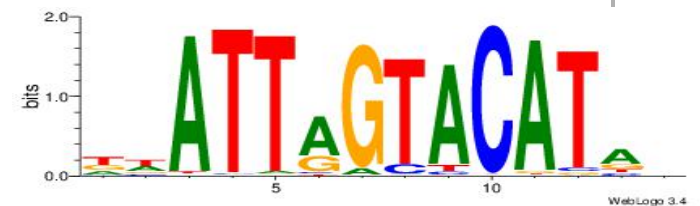
Original motif

Consensus sequence: BTATGTACTAATWH



Reverse complement motif

Consensus sequence: HWATTAGTACATAV



Motif ID: [UP00223](#)
 Motif name: Irx3_0920.1
 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: 7

Similarity score: 0.00490323

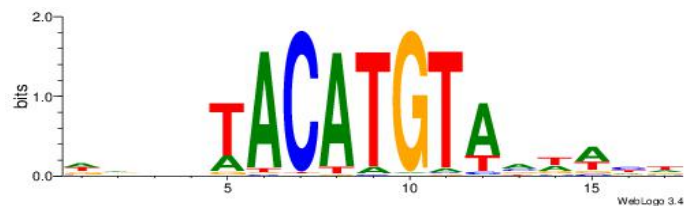
Alignment:

DDWWTACATGTADDDD

-----TATGTAD---

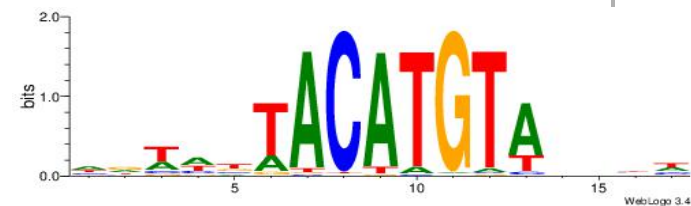
Original motif

Consensus sequence: DDDDTACATGTAVWWHD



Reverse complement motif

Consensus sequence: DDWWTACATGTADDDD



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

Original motif

Consensus sequence: CTGDGTTC



Reverse complement motif

Consensus sequence: GAACDCAG



Best Matches for Motif ID 11 (Highest to Lowest)

Motif ID: [UP00019](#)
Motif name: Zbtb12_primary
Species: Mus musculus
Matching format of first motif: Original Motif

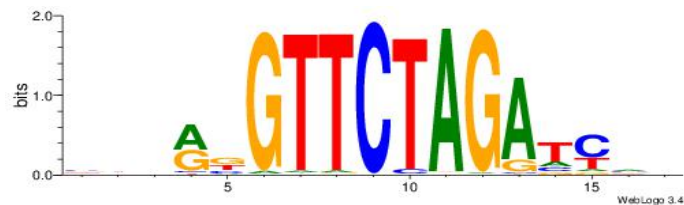
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0140023

Alignment:

```
BDHRBGTTCTAGATCVB
-CTGDGTTC-----
```

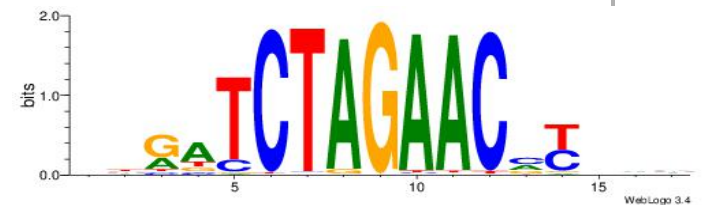
Original motif

Consensus sequence: BDHRBGTTCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



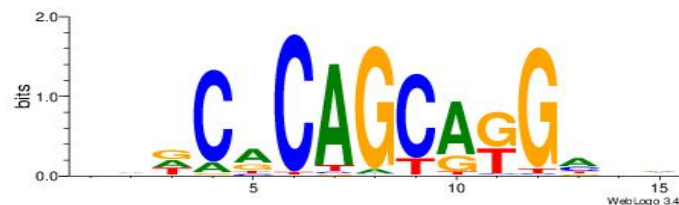
Motif ID:	UP00006
Motif name:	Zic3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0184124

Alignment:

DDDCACAGCAKGHVD
GAACDCAG-----

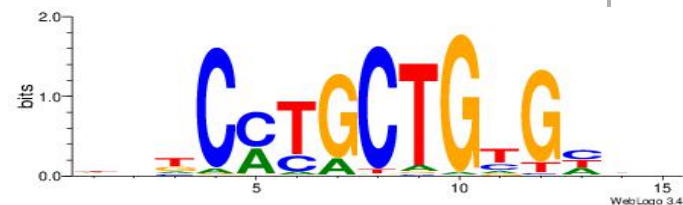
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCTGCTGTGHDH



Motif ID: [UP00102](#)
Motif name: Zic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0200294

Alignment:

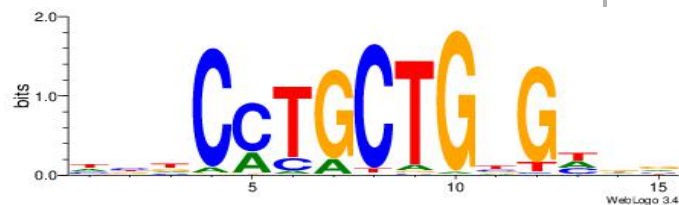
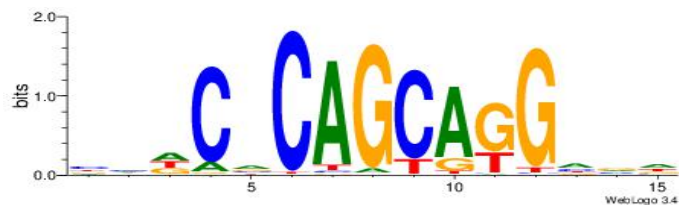
BHDCVCAGCAGGHVD
GAACDCAG-----

Original motif

Consensus sequence: BHDCVCAGCAGGHVD

Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



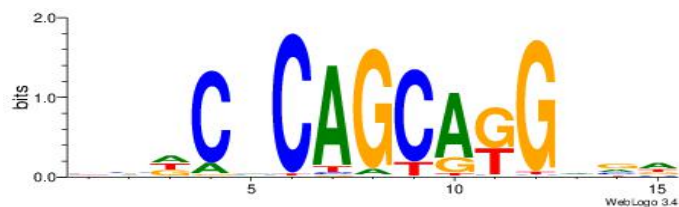
Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0221415

Alignment:

DVBCYTGCTGBGDDD
 -----CTGDGTTC

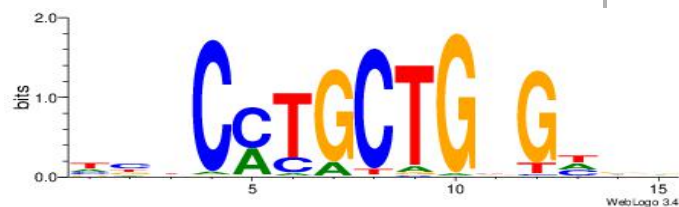
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00062](#)

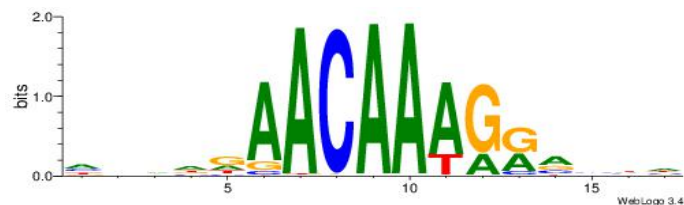
Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0234104

Alignment:

HBDDDAACAAAGRVBHH
 ----GAACDCAG-----

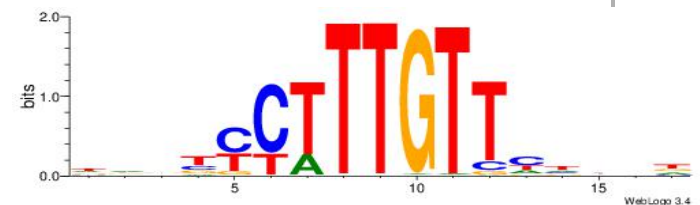
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Dataset #: 1 Motif ID: 12 Motif name: Motif 12

Original motif

Consensus sequence: GCACACAY

Reverse complement motif

Consensus sequence: MTGTGTGC



Best Matches for Motif ID 12 (Highest to Lowest)

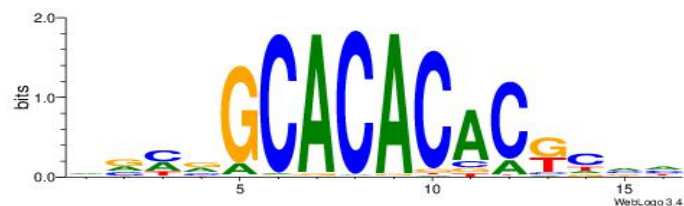
Motif ID: [UP00042](#)
 Motif name: Gm397_second
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0

Alignment:

DVMVGCACACACKCVH
 -----GCACACAY-----

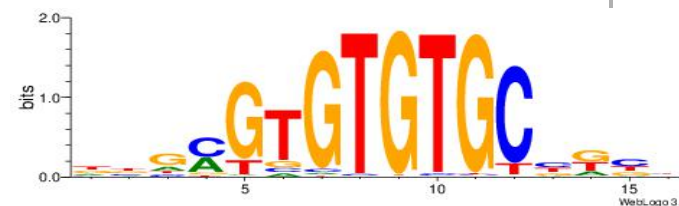
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



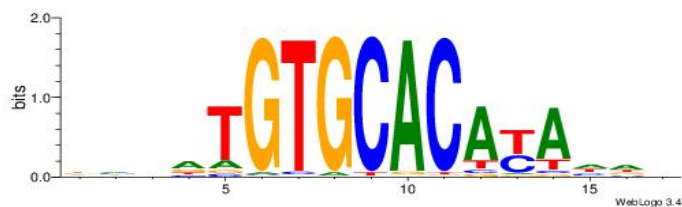
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0213124

Alignment:

DHVDTGTGCACAYAHDH
 -----GCACACAY--

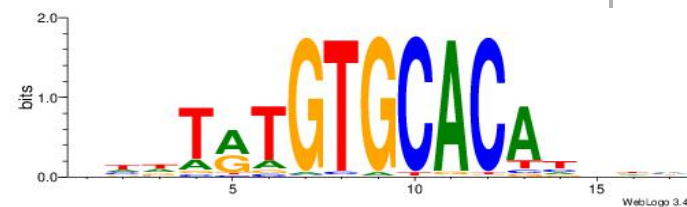
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID: [UP00026](#)
 Motif name: Zscan4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5

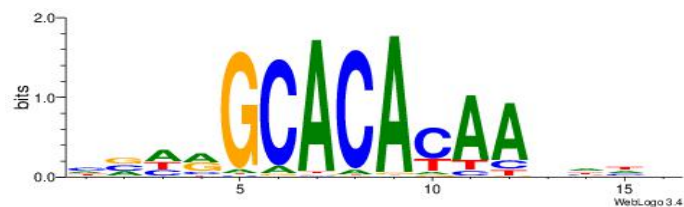
Number of overlap: 8
Similarity score: 0.0223469

Alignment:

HVHRGCACACAAHHHV
-----GCACACAY-----

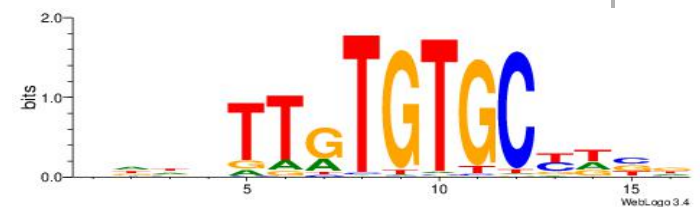
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0256828

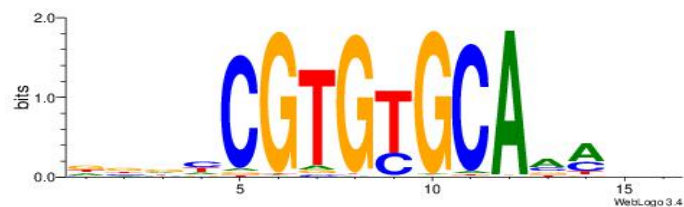
Alignment:

HDYTTGCACACGDHBH
-----GCACACAY---

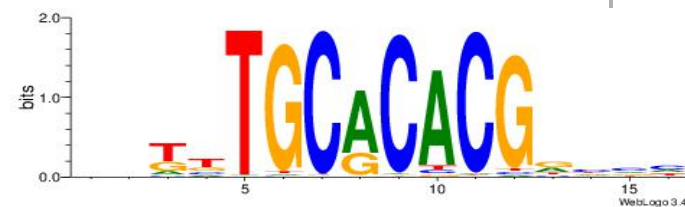
Original motif

Reverse complement motif

Consensus sequence: DBDHCGTGTGCAAMDH



Consensus sequence: HDYTTGCACACGDHBBH

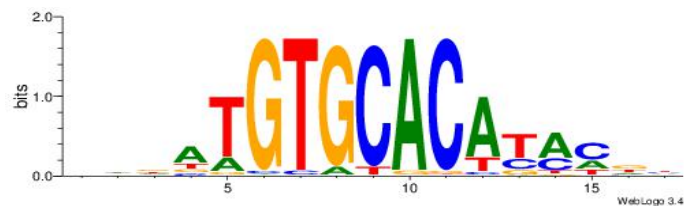


Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0295995

Alignment:
HHDATGTGCACATAMDH
-----GCACACAY--

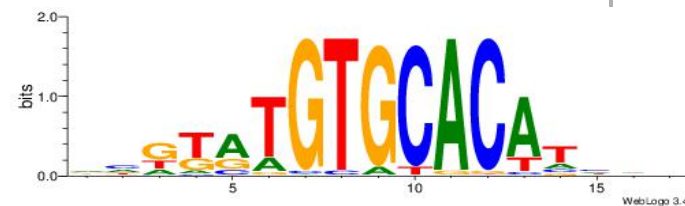
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



Dataset #: 1 **Motif ID: 13** **Motif name: Motif 13**

Original motif

Consensus sequence: GGAAGSAR



Reverse complement motif

Consensus sequence: MTSCTTCC



Best Matches for Motif ID 13 (Highest to Lowest)

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:	3
Number of overlap:	8
Similarity score:	0

Alignment:

MVHBACCGGAAGTVDVH

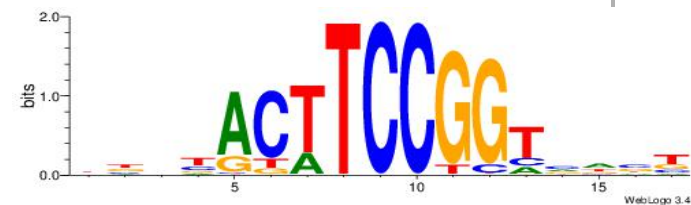
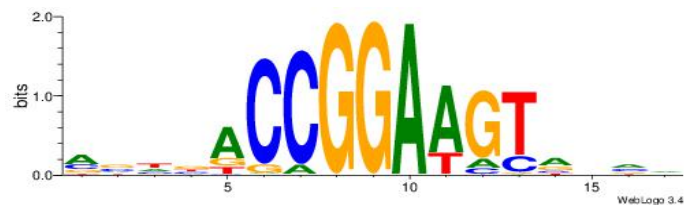
-----GGAAGSAR--

Original motif

Consensus sequence: MVHBACCGGAAGTVDVH

Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



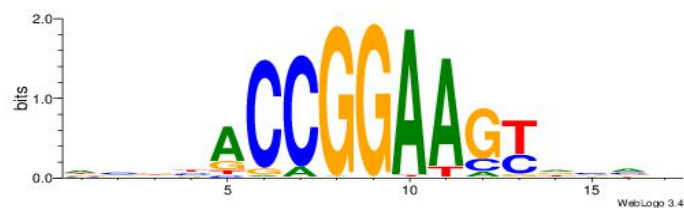
Motif ID: [UP00420](#)
 Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.00132573

Alignment:

DVBBACCGGAAGYDVVV
 -----GGAAGSAR--

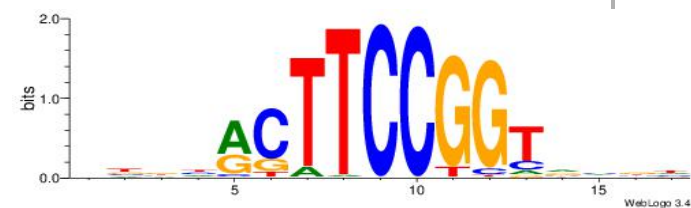
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



Motif ID: [UP00418](#)

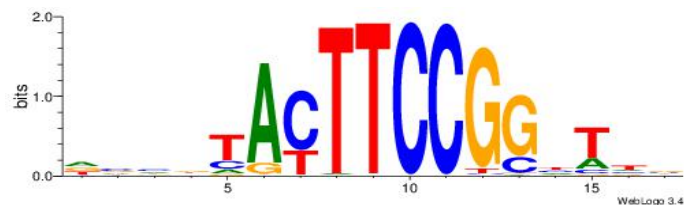
Motif name: Etv6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0021068

Alignment:

BHAHCCGGAAGTABDVD
 -----GGAAGSAR---

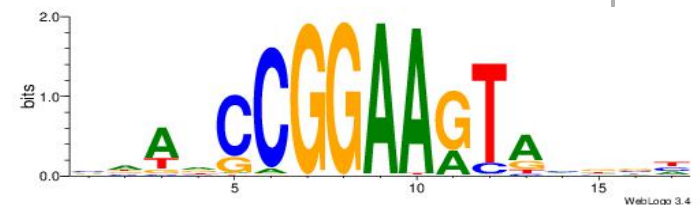
Original motif

Consensus sequence: DVHBTACTTCCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Motif ID: [UP00419](#)
 Motif name: Spic
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.00211278

Alignment:

VAAAGMGGGAAGTWD

-----GGAAGSAR

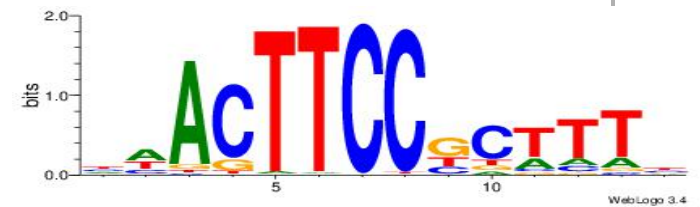
Original motif

Consensus sequence: VAAAGMGGGAAGTWD



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:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.00241654

Alignment:

BWAHSMGGGAAGTWD

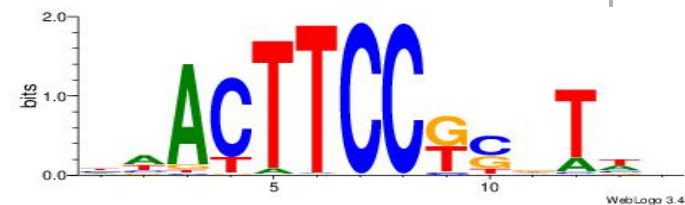
-----GGAAGSAR

Original motif

Consensus sequence: BWAHSMGGGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



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

Original motif

Consensus sequence: KAAAATR



Reverse complement motif

Consensus sequence: MATTTTY



Best Matches for Motif ID 14 (Highest to Lowest)

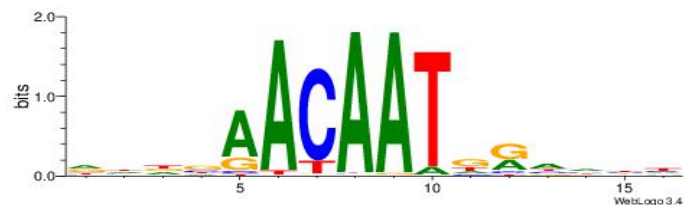
Motif ID:	UP00023
Motif name:	Sox30_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	7
Similarity score:	0

Alignment:

HHHHMHATTGTTBDHD
 -----MATTTTY-----

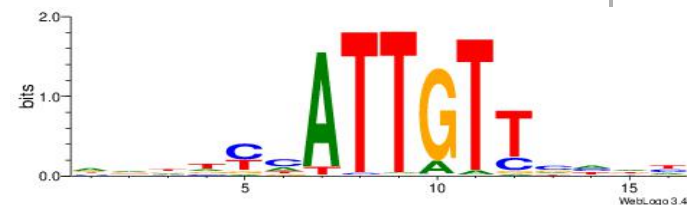
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	7
Similarity score:	0.00226759

Alignment:

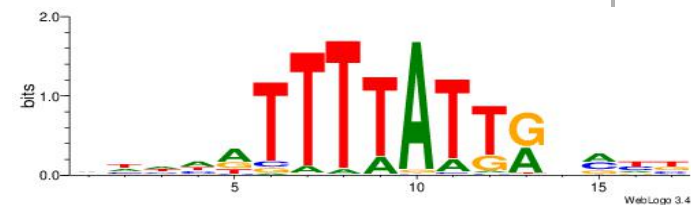
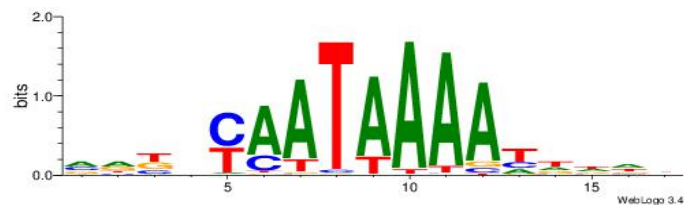
VDKVYAATAAAATDDDH
 -----KAAAATR----

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTATTATTKVRDB

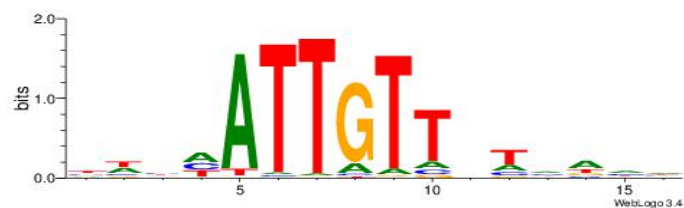


Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.00263629

Alignment:
 BWBHATTGTTBTHDHH
 ---MATTTTY-----

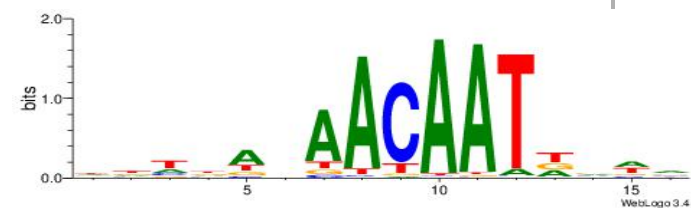
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



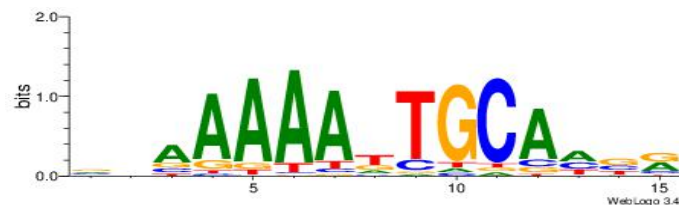
Motif ID: [UP00044](#)

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: 7
 Number of overlap: 7
 Similarity score: 0.00352186

Alignment:
 MBHTGCADTTTTTHV
 -----MATTTY--

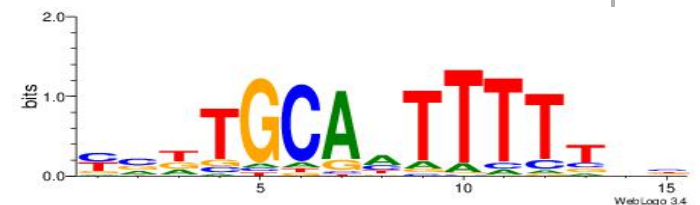
Original motif

Consensus sequence: VHAAAAADTGAHBR



Reverse complement motif

Consensus sequence: MBHTGCADTTTTTHV



Motif ID: [UP00101](#)
 Motif name: Sox12_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: 7

Similarity score: 0.00617655

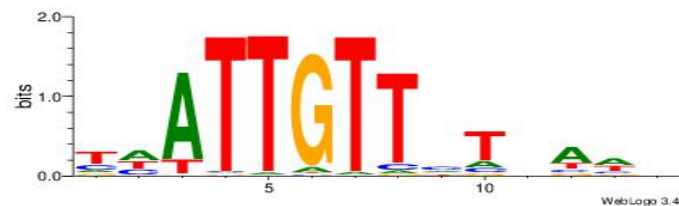
Alignment:

THATTGTTVTHAWH

-MATTTY-----

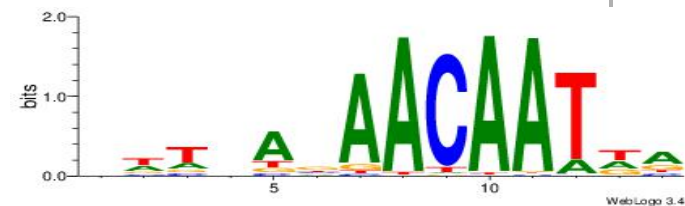
Original motif

Consensus sequence: THATTGTTVTHAWH



Reverse complement motif

Consensus sequence: DWTHAVAACAATHA



Dataset #: 1 Motif ID: 15 Motif name: Motif 15

Original motif

Consensus sequence: AGCCCWGG



Reverse complement motif

Consensus sequence: CCWGGGCT



Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID: [UP00095](#)
Motif name: Zfp691_primary
Species: Mus musculus
Matching format of first motif: Original Motif

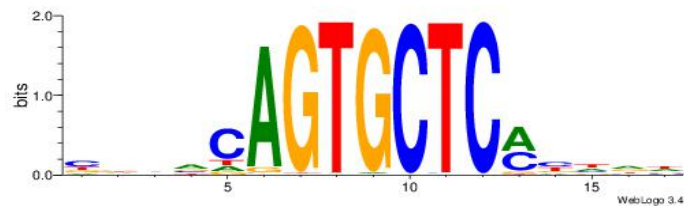
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0

Alignment:

```
DDHBYGAGCACTGBHBB
-----AGCCWGG----
```

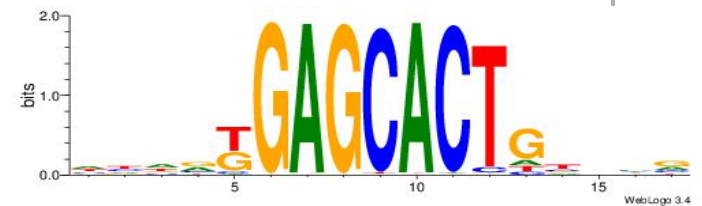
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHBB



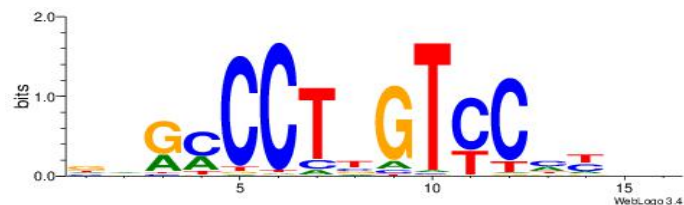
Motif ID:	UP00082
Motif name:	Zfp187_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0100601

Alignment:

VHMDGGACVAGGRCDH
 -----CCWGGGCT--

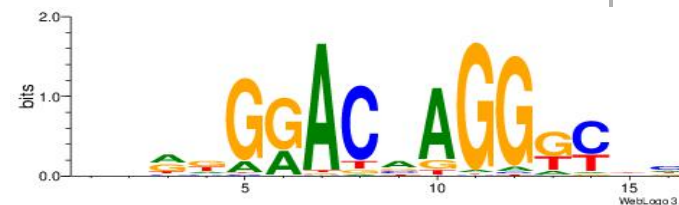
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID:	UP00066
Motif name:	Hnf4a_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:	8
Similarity score:	0.0131051

Alignment:

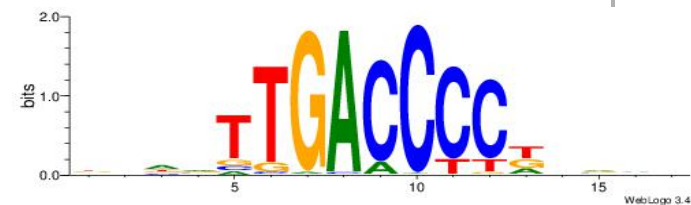
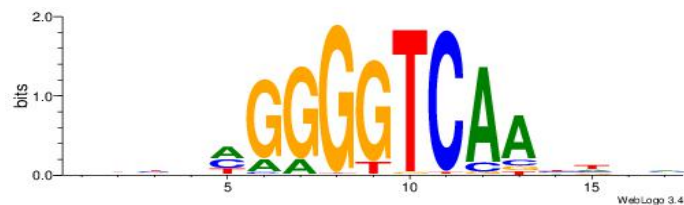
BDBVMGGGGTCAABHDV
 --CCWGGGCT-----

Original motif

Consensus sequence: BDBVMGGGGTCAABHDV

Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD



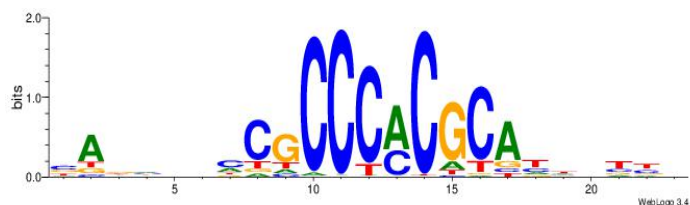
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0132772

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB
 -----CCWGGGCT-----

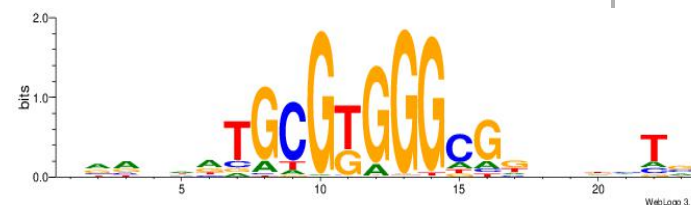
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



Motif ID: [UP00079](#)

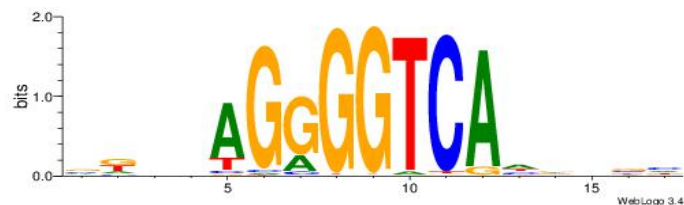
Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0150014

Alignment:

DBBHHTGACCCCTBBYV
 -----AGCCCWGG--

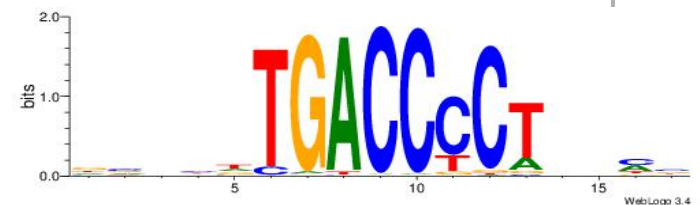
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Dataset #: 1 Motif ID: 16 Motif name: Motif 16

Original motif

Consensus sequence: GAGCCATC

Reverse complement motif

Consensus sequence: GATGGCTC



Best Matches for Motif ID 16 (Highest to Lowest)

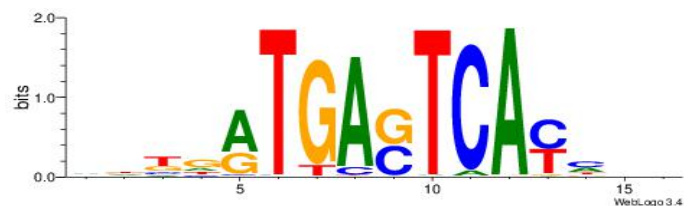
Motif ID: [UP00103](#)
 Motif name: Jundm2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0

Alignment:

HDDKTGASTCAKHRDB
 -----GAGCCATC---

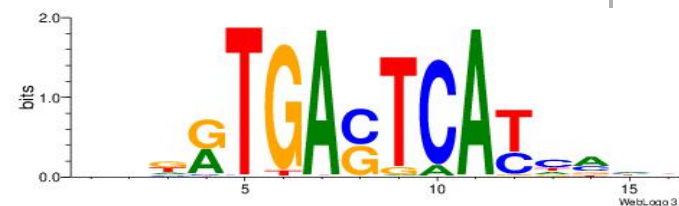
Original motif

Consensus sequence: VDKDRTGASTCAYHDH



Reverse complement motif

Consensus sequence: HDDKTGASTCAKHRDB



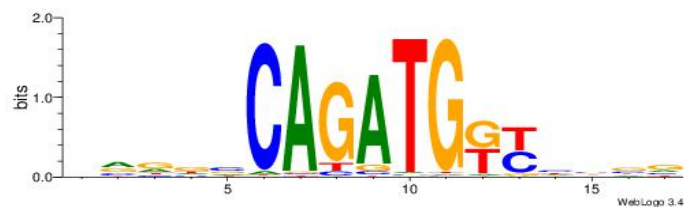
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.00755596

Alignment:

HVDDVCAGATGKYHBBV
 -----GATGGCTC--

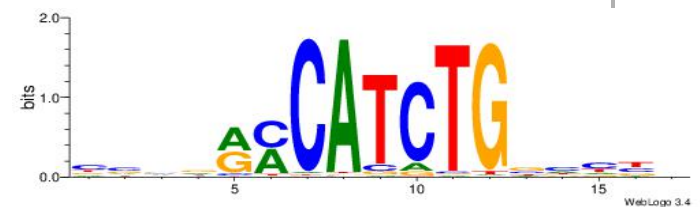
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



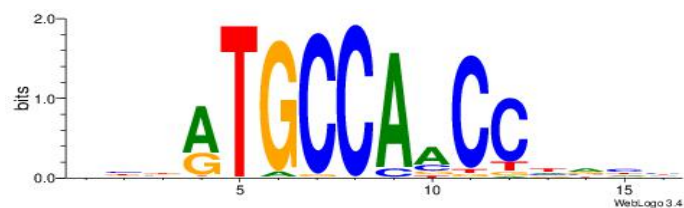
Motif ID: [UP00035](#)
 Motif name: Hic1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

Number of overlap: 8
Similarity score: 0.00844628

Alignment:
DBBATGCCAACCHVHH
---GAGCCATC-----

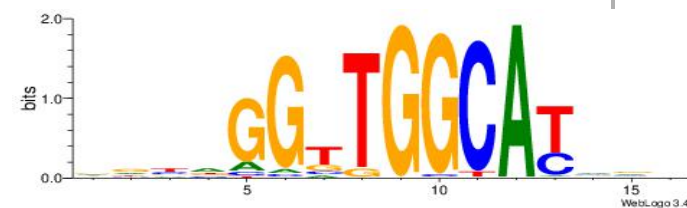
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



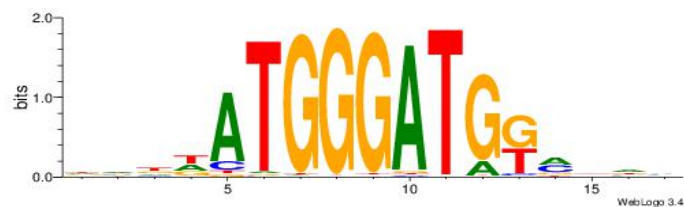
Motif ID: [UP00033](#)
Motif name: Zfp410_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0.0101495

Alignment:
DVDDATGGGATGKMDDV
-----GATGGCTC-

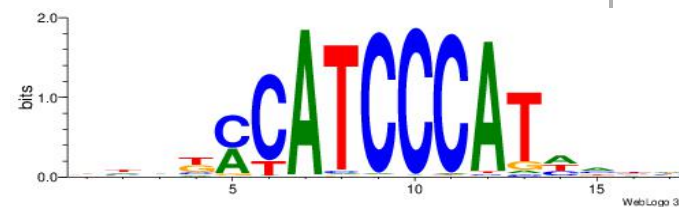
Original motif

Reverse complement motif

Consensus sequence: DVDDATGGGATGKMDDV



Consensus sequence: BDDYYCATCCCATDDBD



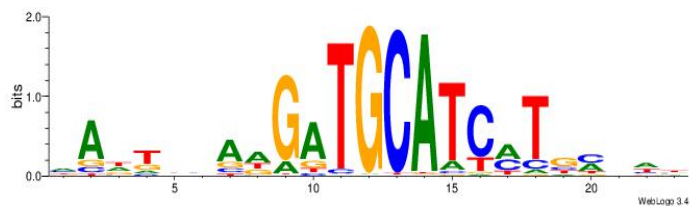
Motif ID: [UP00528](#)
Motif name: Foxm1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0102701

Alignment:

VHVRCAYGATGCATCDTVVADTH
-----GATGGCTC-----

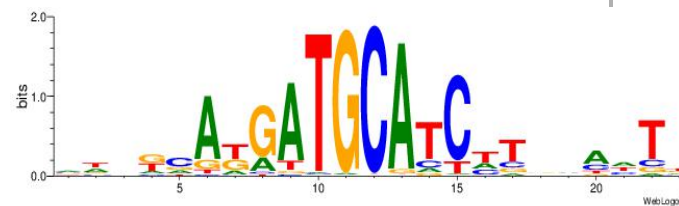
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Dataset #: 1 **Motif ID: 17** **Motif name: Motif 17**

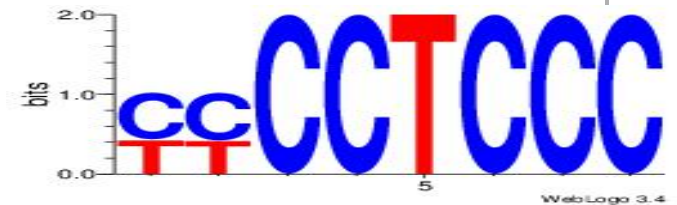
Original motif

Consensus sequence: GGGAGGRR



Reverse complement motif

Consensus sequence: MMCCTCCC



Best Matches for Motif ID 17 (Highest to Lowest)

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:	3
Number of overlap:	8
Similarity score:	0

Alignment:

DBCCCCCCCCCMYC

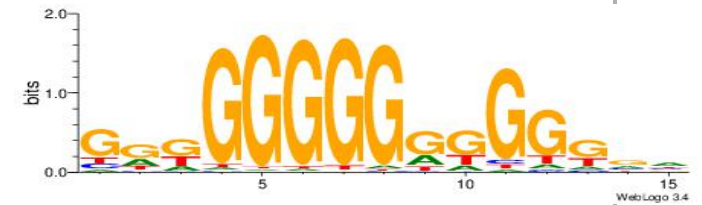
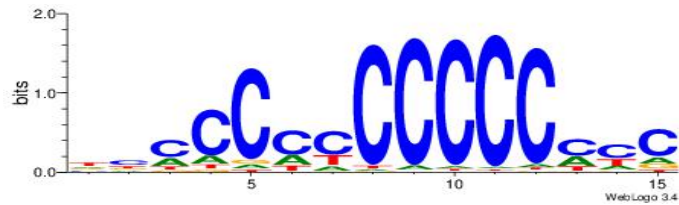
--MMCCTCCC-----

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



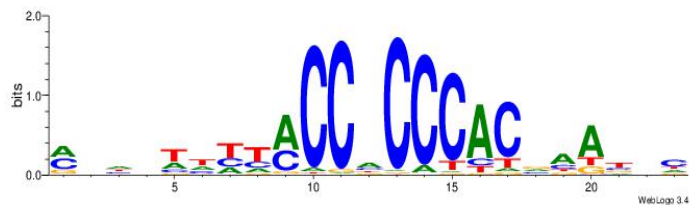
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.00441712

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----MMCCTCCC-----

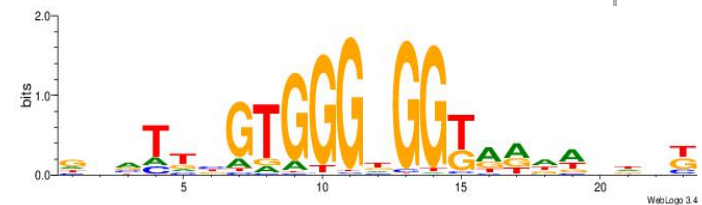
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00093](#)

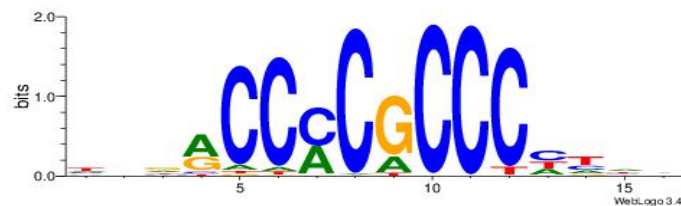
Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00658839

Alignment:

DHHDGGGCGRGGKHBH
 ----GGGAGGRR----

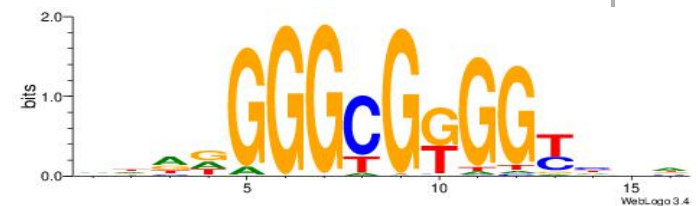
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



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: 4
 Number of overlap: 8

Similarity score: 0.00819387

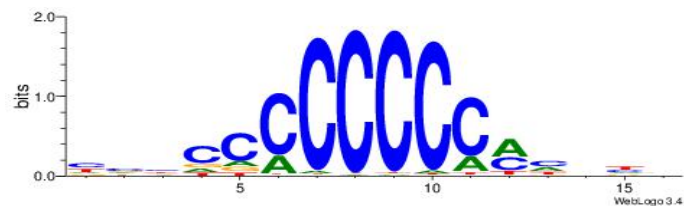
Alignment:

HVBCCCCCCCCMHHHB

---MMCCTCCC-----

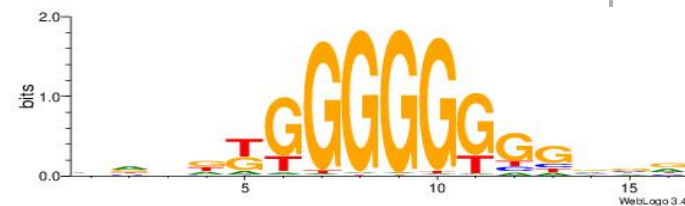
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Motif ID: [UP00033](#)
Motif name: Zfp410_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.00976538

Alignment:

DVDDATGGGATGKMDDV

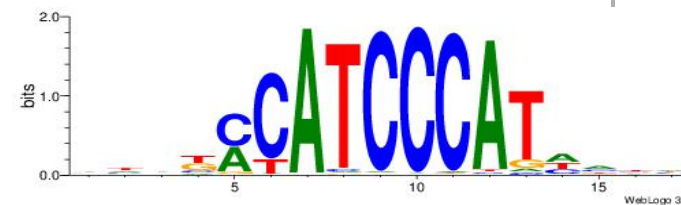
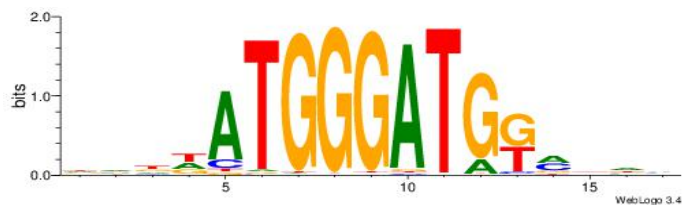
-----GGGAGGRR---

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



Dataset #: 1 Motif ID: 18 Motif name: Motif 18

Original motif

Consensus sequence: GRRAGAGA



Reverse complement motif

Consensus sequence: TCTCTMKC



Best Matches for Motif ID 18 (Highest to Lowest)

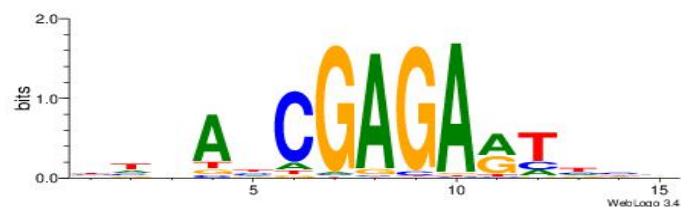
Motif ID:	UP00040
Motif name:	Irf5_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0

Alignment:

VBHAKTCTCGHTHHV
-----TCTCTMKC--

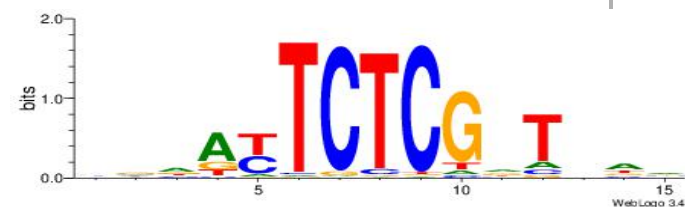
Original motif

Consensus sequence: BDAHCGAGARTHBV



Reverse complement motif

Consensus sequence: VBHAKTCTCGHTHHV



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:	5
Number of overlap:	8
Similarity score:	0.00591803

Alignment:

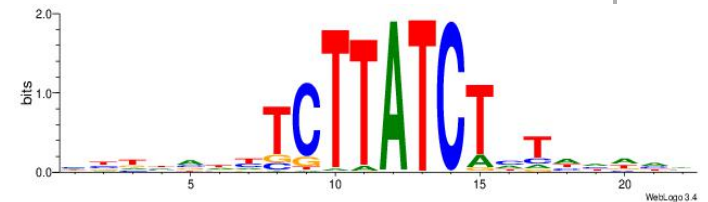
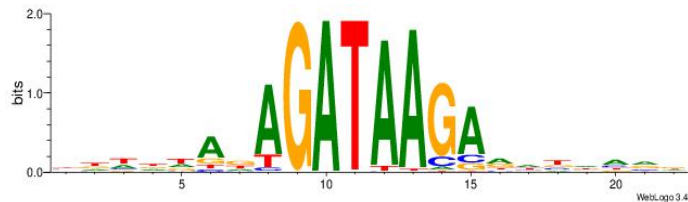
BDHDDADAGATAAGADHBDHVD
-----GRRAGAGA-----

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

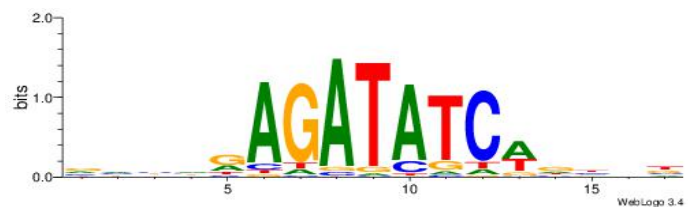
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



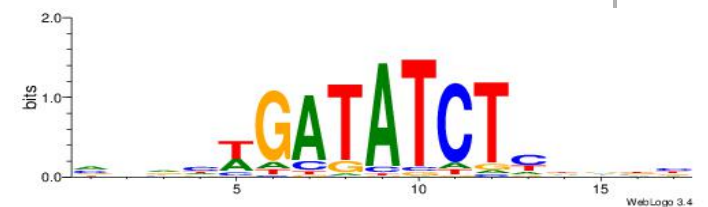
Motif ID: [UP00080](#)
 Motif name: Gata5_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0157485

Alignment:
 VVBHRAGATATCWDHBB
 --GRRAGAGA-----

Original motif
 Consensus sequence: VVBHRAGATATCWDHBB



Reverse complement motif
 Consensus sequence: VVHHWGATATCTMHBBV



Motif ID: [UP00239](#)

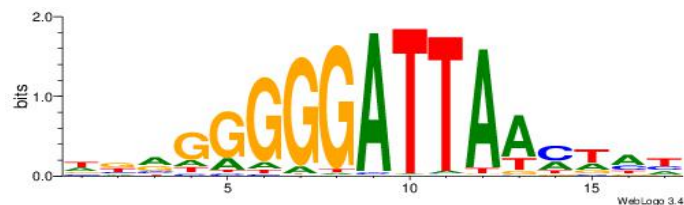
Motif name: Obox2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.0165309

Alignment:

DBRGGGGGATTAAMTAH
 -GRRAGAGA-----

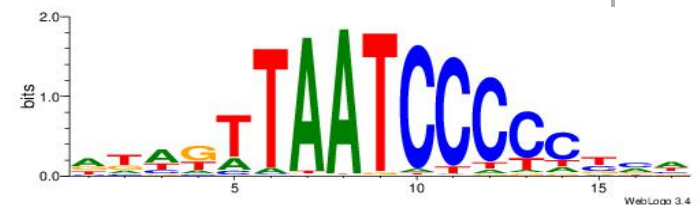
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



Motif ID: [UP00153](#)
 Motif name: Pitx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 8

Similarity score: 0.0181357

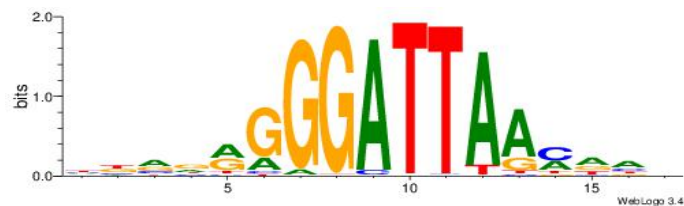
Alignment:

HBVDRGGGATTAAMDHH

-GRRAGAGA-----

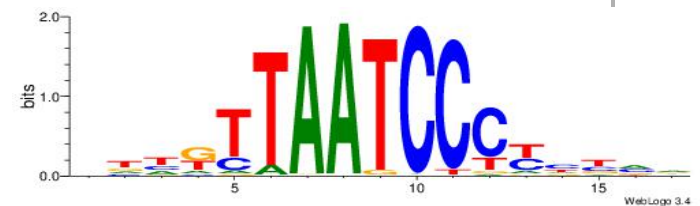
Original motif

Consensus sequence: HBVDRGGGATTAAMDHH



Reverse complement motif

Consensus sequence: HHDRTTAATCCCKHBVH



Dataset #: 1 Motif ID: 19 Motif name: Motif 19

Original motif

Consensus sequence: CCTGGARC



Reverse complement motif

Consensus sequence: GKTCCAGG



Best Matches for Motif ID 19 (Highest to Lowest)

Motif ID:	UP00019
Motif name:	Zbtb12_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

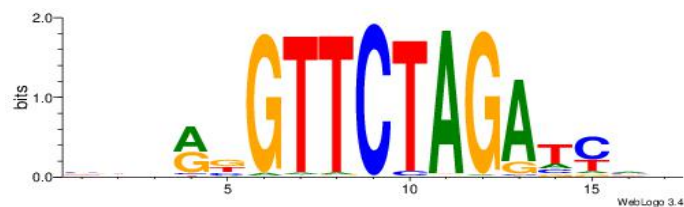
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

```
BDHRBGTTCCTAGATCVB
-----GKTCCAGG-----
```

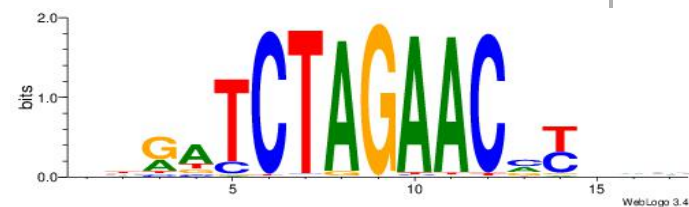
Original motif

Consensus sequence: BDHRBGTTCCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



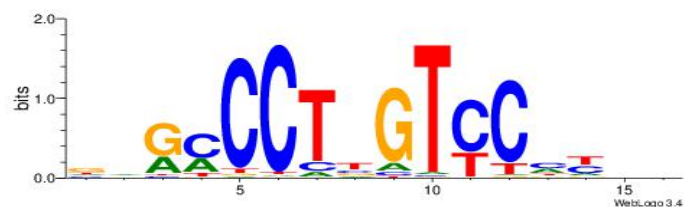
Motif ID:	UP00082
Motif name:	Zfp187_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0114365

Alignment:

VHMDGGACVAGGRCDH
-----GKTCCAGG-----

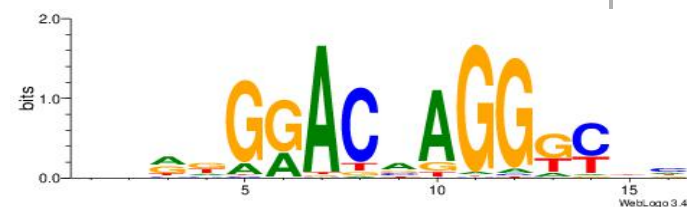
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID:	UP00539
Motif name:	Gli2_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0166042

Alignment:

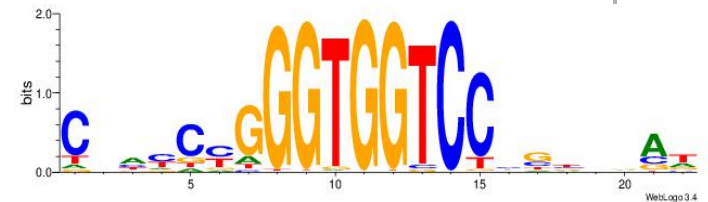
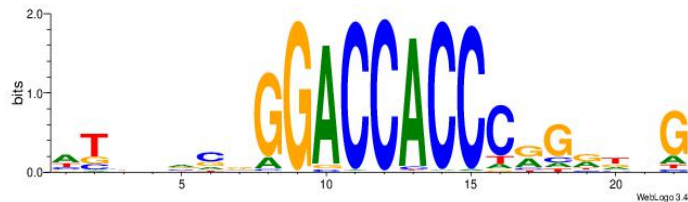
CBDMCMGGGTGGTCCHVBVBAH
-----GKTCCAGG-----

Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG

Reverse complement motif

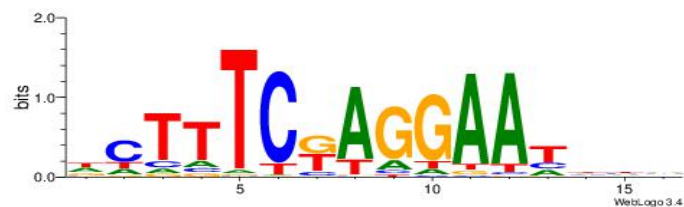
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



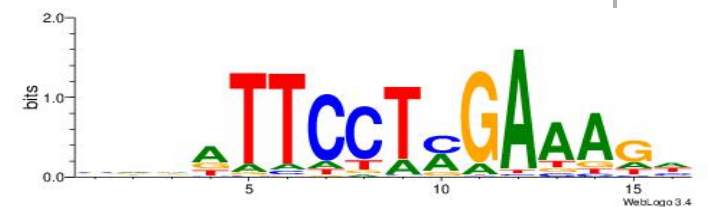
Motif ID: [UP00043](#)
 Motif name: Bcl6b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0186859

Alignment:
 VHHATTCCTYGAAAGD
 -----CCTGGARC--

Original motif
 Consensus sequence: DCTTTCKAGGAATHHV



Reverse complement motif
 Consensus sequence: VHHATTCCTYGAAAGD



Motif ID: [UP00079](#)

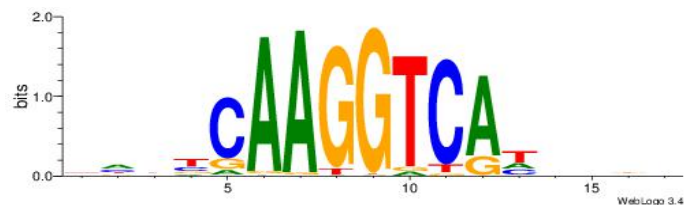
Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.0193598

Alignment:

HHBVHTGACCTTGVDHD
 -----CCTGGARC-

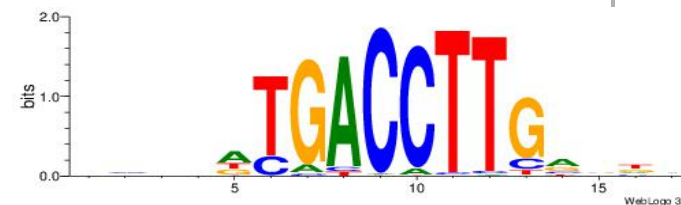
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Dataset #: 1 Motif ID: 20 Motif name: Motif 20

Original motif

Consensus sequence: ATTAMAGG

Reverse complement motif

Consensus sequence: CCTYTAAT



Best Matches for Motif ID 20 (Highest to Lowest)

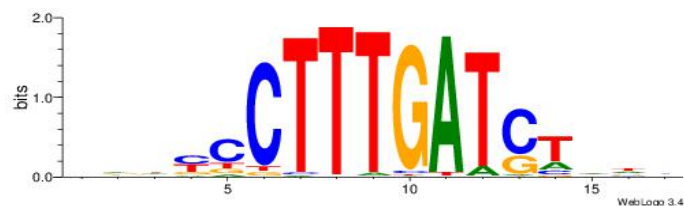
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.00264223

Alignment:

VDDAGATCAAAGGKDDD
 -----ATTAMAGG-----

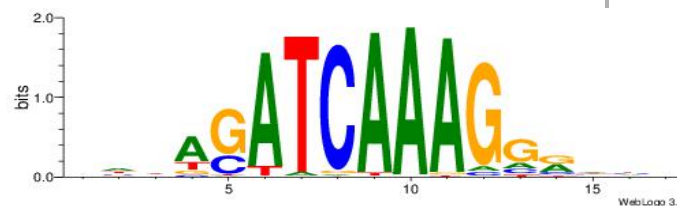
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



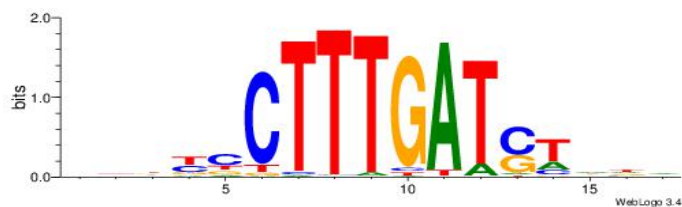
Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.00766457

Alignment:

BDDASATCAAAGGMDDD
 -----ATTAMAGG-----

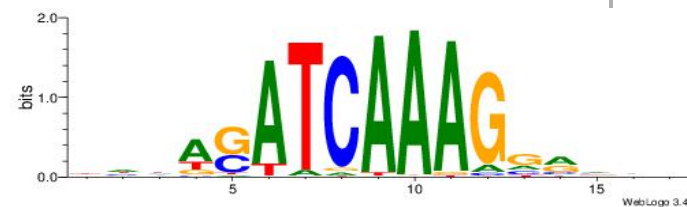
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



Motif ID: [UP00152](#)
 Motif name: Arx
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

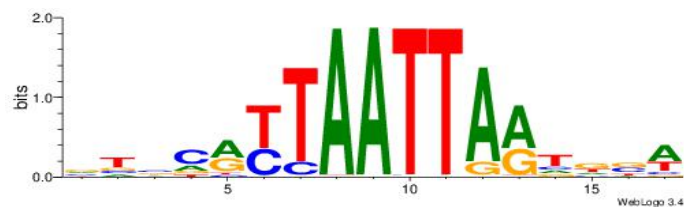
Number of overlap: 8
Similarity score: 0.0109266

Alignment:

WBHAKTAATTAMKGBAV
-----ATTAMAGG--

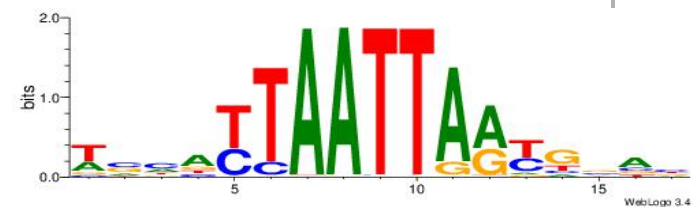
Original motif

Consensus sequence: VTBCRYTAATTARTDBW



Reverse complement motif

Consensus sequence: WBHAKTAATTAMKGBAV



Motif ID: [UP00209](#)
Motif name: Cart1_1275.1
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: 0.0133543

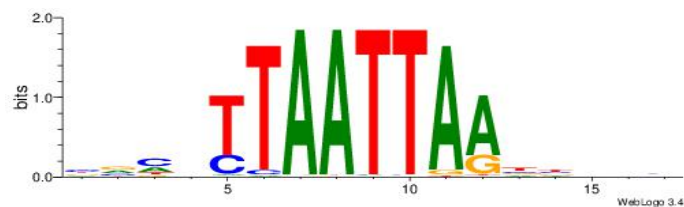
Alignment:

VHHVTTAATTAADRVB
-----ATTAMAGG--

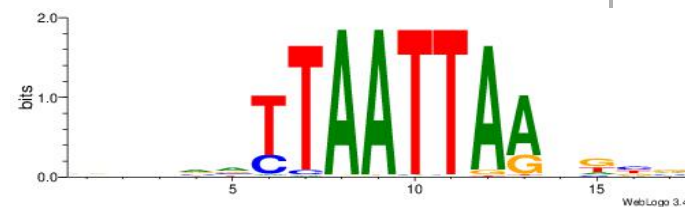
Original motif

Reverse complement motif

Consensus sequence: BVMDTTAATTAABBDDV



Consensus sequence: VHHVTTAATTAADRVB



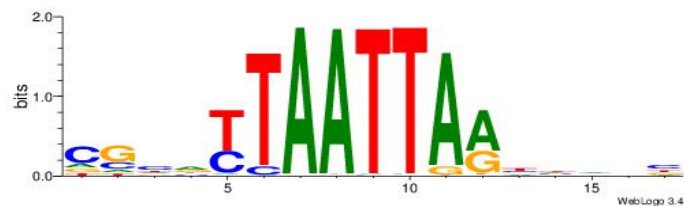
Motif ID: [UP00187](#)
Motif name: Alx4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0138063

Alignment:

CGHDYTAATTARBHHVB
-CCTYTAAT-----

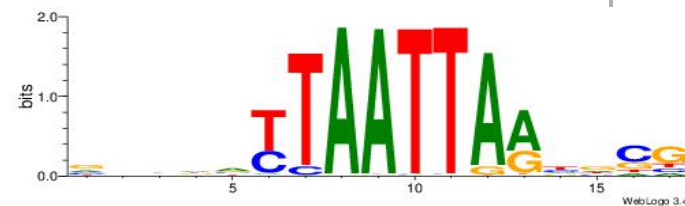
Original motif

Consensus sequence: CGHDYTAATTARBHHVB



Reverse complement motif

Consensus sequence: BVHHVKTAAATTAMDDCG



Dataset #: 1 **Motif ID: 21** **Motif name: Motif 21**

Original motif

Consensus sequence: AAACAAAC



Reverse complement motif

Consensus sequence: GTTTGTTT



Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID:	UP00025
Motif name:	Foxk1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

DDAATGTAAACAAAVVB

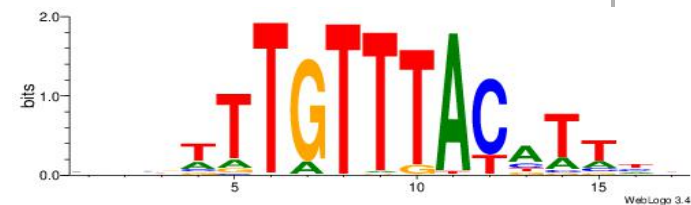
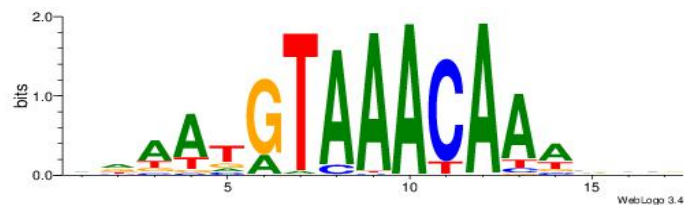
-----AAACAAAC--

Original motif

Consensus sequence: DDAATGTAAACAAAVVB

Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD

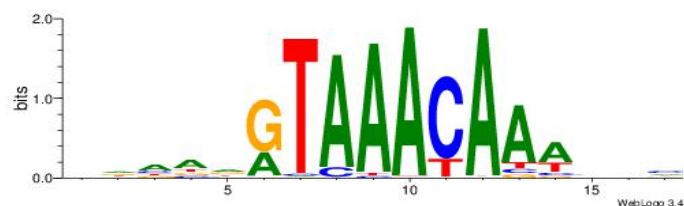


Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.00214871

Alignment:
 DVVTTTGTTTACDTHDH
 --GTTTGTTT-----

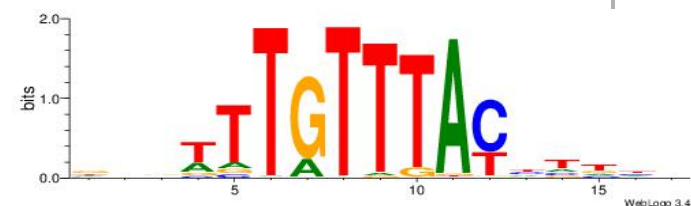
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00061](#)

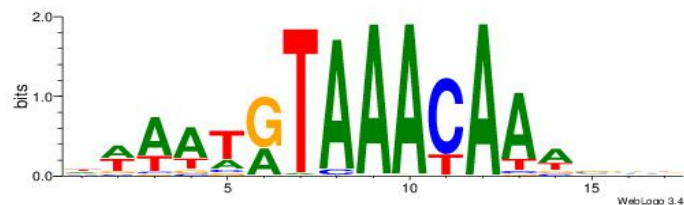
Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.00385351

Alignment:

VVVWTTGTTTAMATTWD
 --GTTTGTTT-----

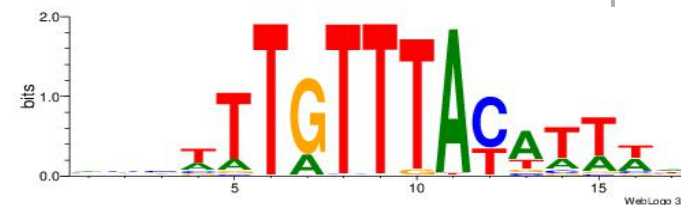
Original motif

Consensus sequence: DWAATRTAAACA WVVVB



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8

Similarity score: 0.0108706

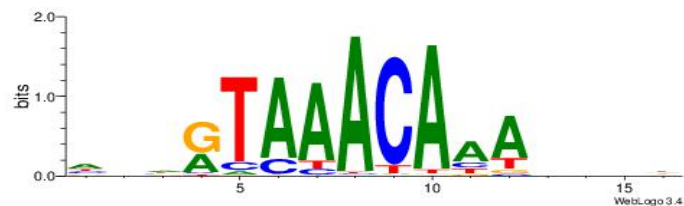
Alignment:

HDHRTAAACAAAHDDD

-----AAACAAAC---

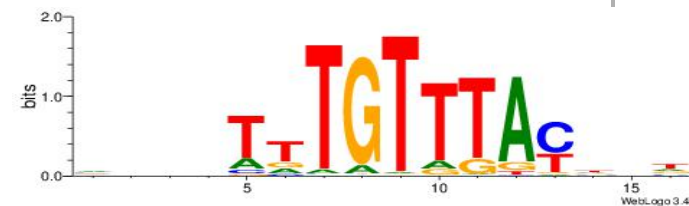
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



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: 3

Number of overlap: 8

Similarity score: 0.0132351

Alignment:

HHWAWGTAAAYAAAVDB

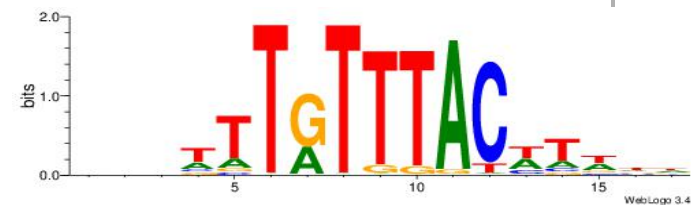
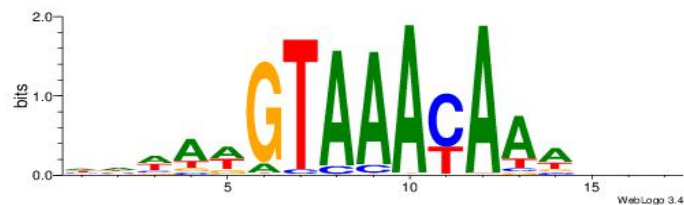
-----AAACAAAC--

Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB

Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Dataset #: 1 Motif ID: 22 Motif name: Motif 22

Original motif

Consensus sequence: GTGGTGGY



Reverse complement motif

Consensus sequence: MCCACCAC



Best Matches for Motif ID 22 (Highest to Lowest)

Motif ID:	UP00047
Motif name:	Zbtb7b_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

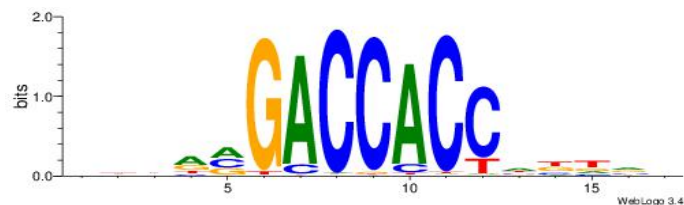
Alignment:

BBDVHGGTGGTCBKDDDB

---GTGGTGGY-----

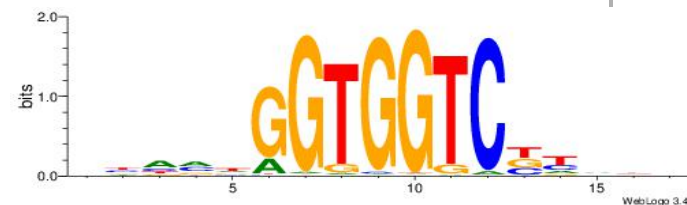
Original motif

Consensus sequence: BDDRVGACCACCHBDVB



Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



Motif ID:	UP00539
Motif name:	Gli2_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.00961551

Alignment:

CBDMCMGGGTGGTCCHVBVBAH

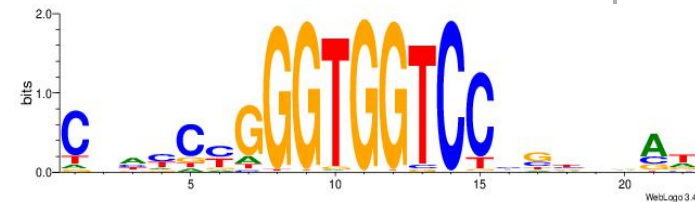
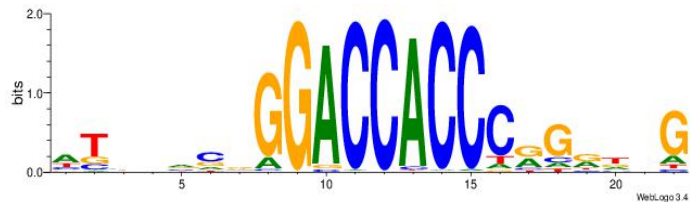
-----GTGGTGGY-----

Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG

Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

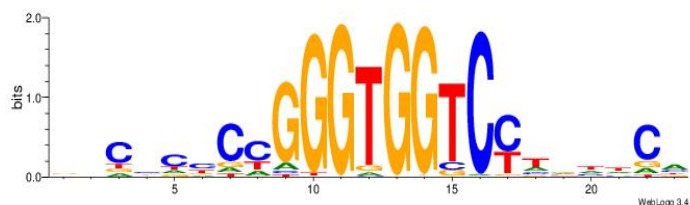


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0126856

Alignment:
 HGDHVKHGACCACCCGGBGBGDB
 -----MCCACCAC-----

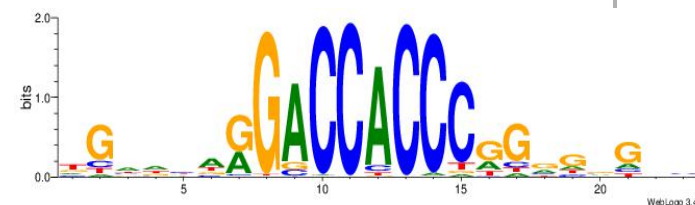
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCACCCGGBGBGDB



Motif ID: [UP00540](#)

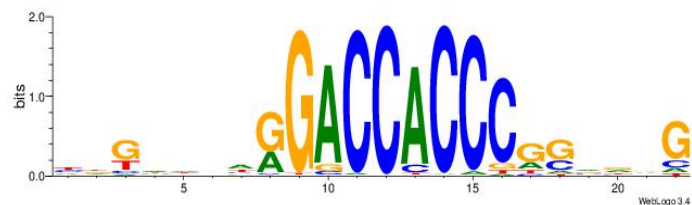
Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.015156

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 -----GTGGTGGY-----

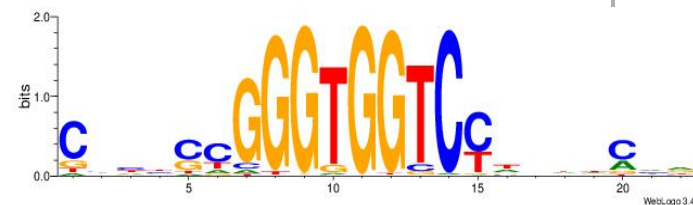
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 8

Similarity score: 0.0162913

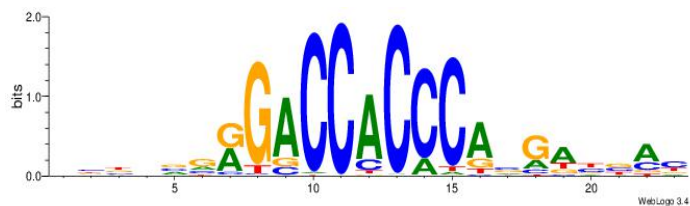
Alignment:

BTBVTCTVGGGTGGTCMVVDVBB

-----GTGGTGGY-----

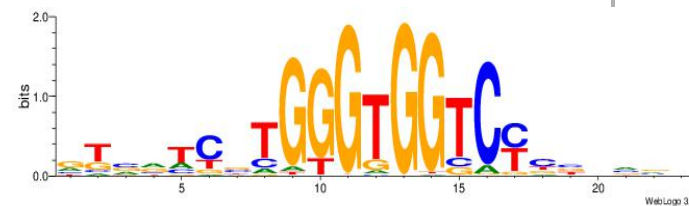
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Dataset #: 1 Motif ID: 23 Motif name: Motif 23

Original motif

Consensus sequence: MTSTGTA



Reverse complement motif

Consensus sequence: TACASAR



Best Matches for Motif ID 23 (Highest to Lowest)

Motif ID: [UP00026](#)
Motif name: Zscan4_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	7
Similarity score:	0

Alignment:

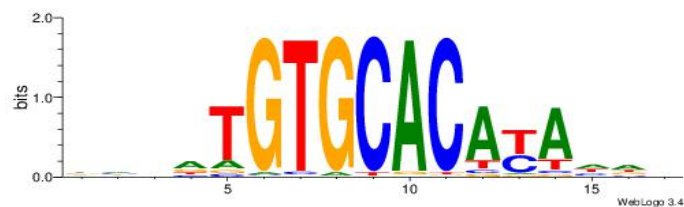
```

HDHTMTGTGCACADVHD
-----MTSTGTA-----

```

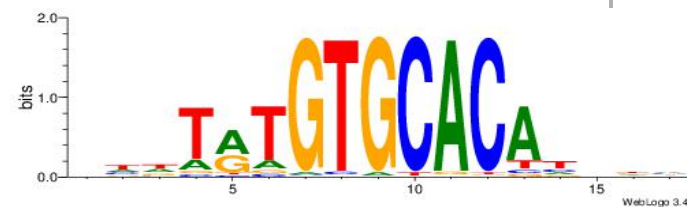
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



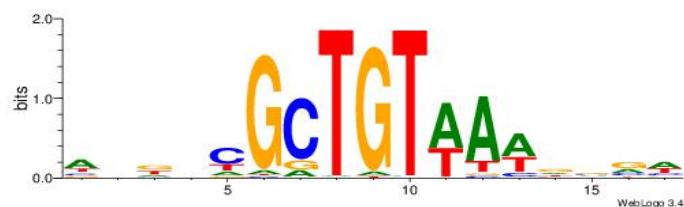
Motif ID:	UP00193
Motif name:	Rhox11_2205.1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	7
Similarity score:	0.000572275

Alignment:

WVHWTWACAGCGHHVT
-----TACASAR-----

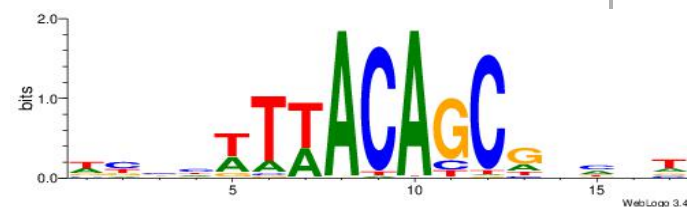
Original motif

Consensus sequence: AVDHCGCTGTAWDVVW



Reverse complement motif

Consensus sequence: WVHWTWACAGCGHHVT



Motif ID:	UP00082
Motif name:	Zfp187_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:	7
Similarity score:	0.000715028

Alignment:

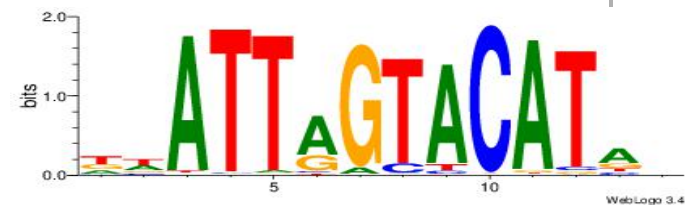
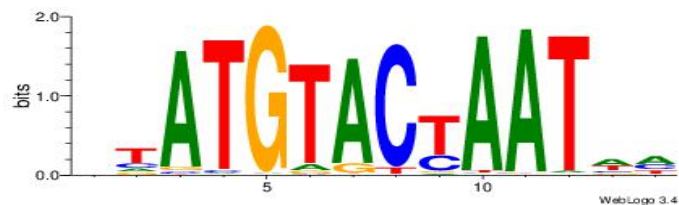
HWATTAGTACATAV
-----TACASAR-----

Original motif

Consensus sequence: BTATGTACTAATWH

Reverse complement motif

Consensus sequence: HWATTAGTACATAV

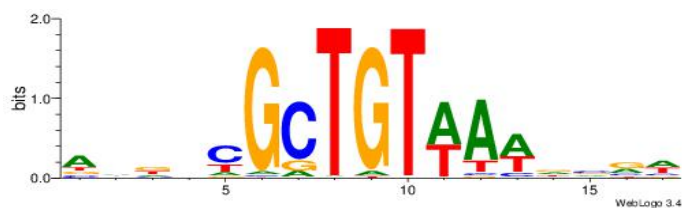


Motif ID: [UP00193](#)
 Motif name: Rhox11_1765.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.00195524

Alignment:
 WVHWTWACAGCGBHBT
 -----TACASAR-----

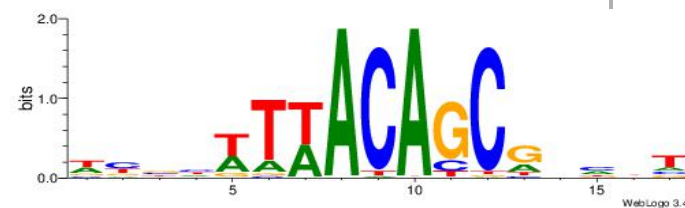
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

Consensus sequence: WVHWTWACAGCGBHBT



Motif ID: [UP00073](#)

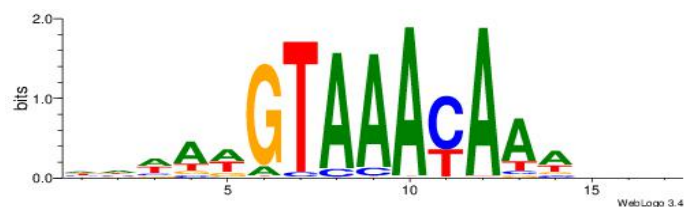
Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.0025777

Alignment:

HHWAWGTAAAYAAAVDB
 -----TACASAR-----

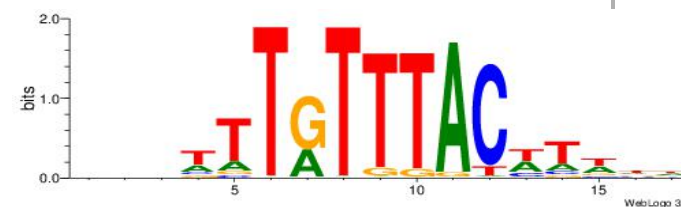
Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Dataset #: 1 Motif ID: 24 Motif name: Motif 24

Original motif

Consensus sequence: CACGB

Reverse complement motif

Consensus sequence: BCGTG



Best Matches for Motif ID 24 (Highest to Lowest)

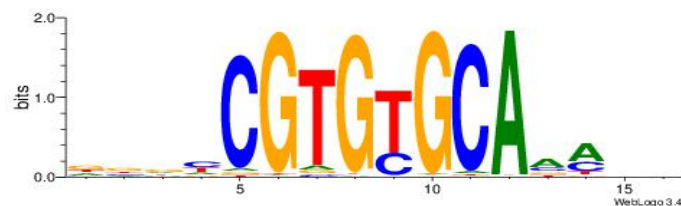
Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 5
 Similarity score: 0

Alignment:

DBDHCGTGTGCAAMDH
 ---BCGTG-----

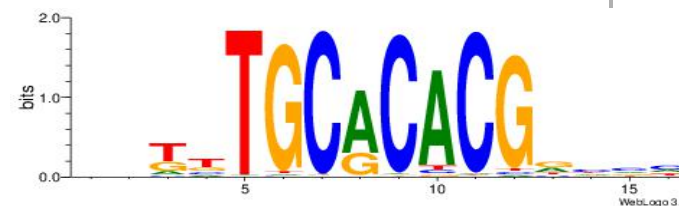
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBDH



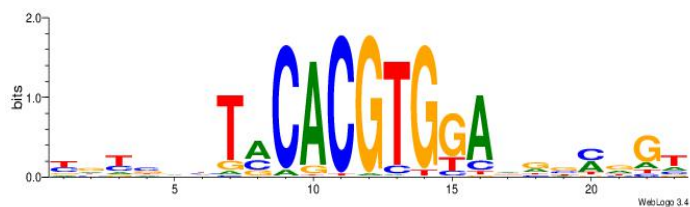
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 10
 Number of overlap: 5
 Similarity score: 0.0184689

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----CACGB-----

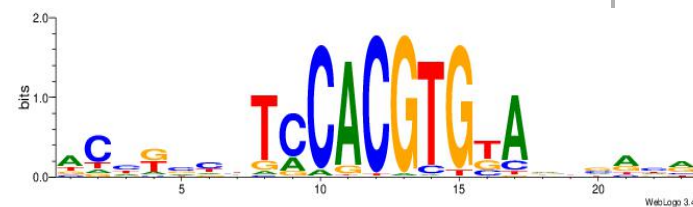
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



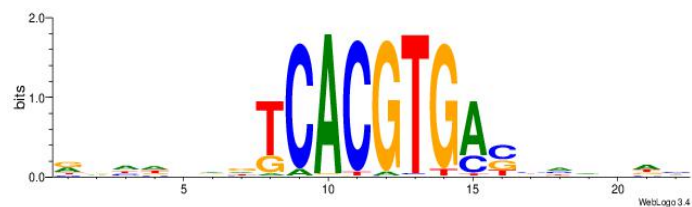
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9

Number of overlap: 5
Similarity score: 0.0193222

Alignment:
RDHDBVDTACGTGASBHVHDH
-----CACGB-----

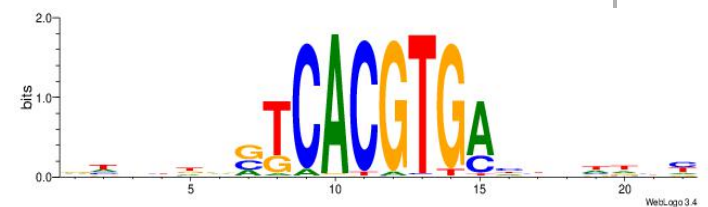
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



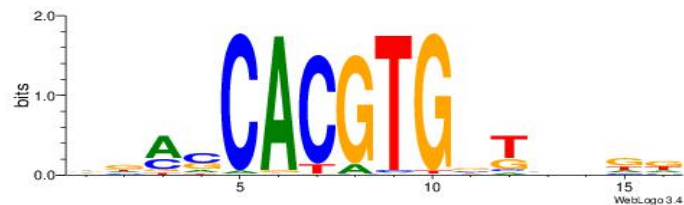
Motif ID: [UP00060](#)
Motif name: Max_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 5
Similarity score: 0.0231779

Alignment:
DDASCACGTGBTBVDD
----CACGB-----

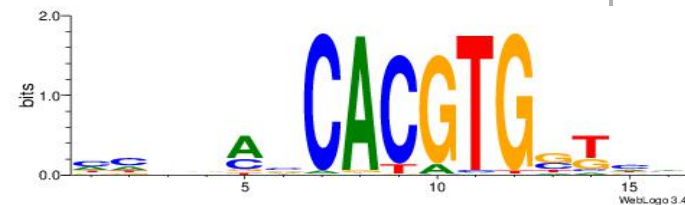
Original motif

Reverse complement motif

Consensus sequence: DDASCACGTGBTBVDD



Consensus sequence: HHVBABCACGTGSTHD



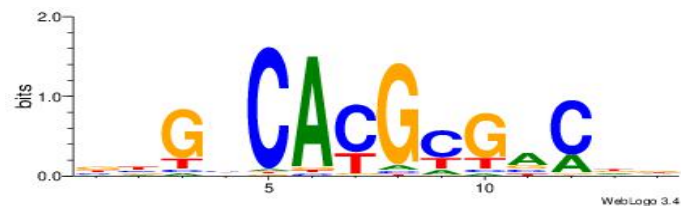
Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 5
Similarity score: 0.02459

Alignment:

HDGTCGCGTGDCVB
-----BCGTG-----

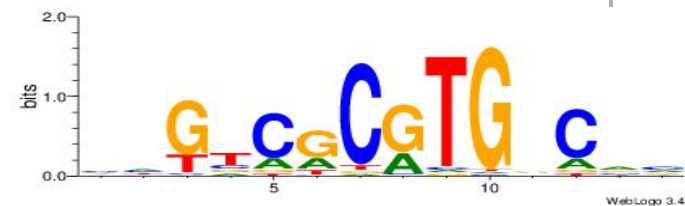
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 1 **Motif ID: 25** **Motif name: Motif 25**

Original motif

Consensus sequence: TTTAWW



Reverse complement motif

Consensus sequence: WWTAAA



Best Matches for Motif ID 25 (Highest to Lowest)

Motif ID:	UP00180
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	6
Similarity score:	0

Alignment:

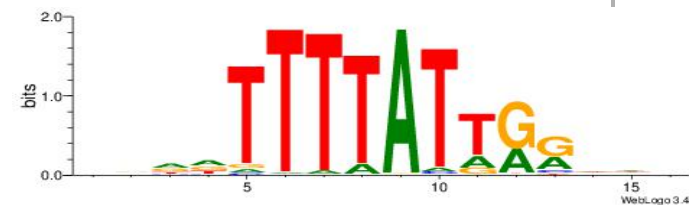
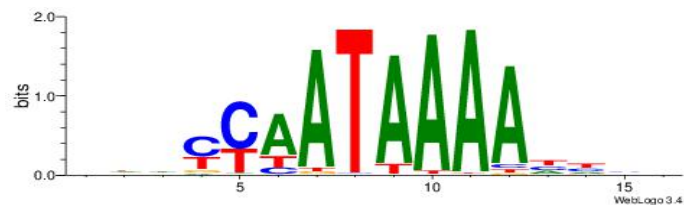
```
HDHHTTTTATTKKHDD
-----TTTAWW-----
```

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

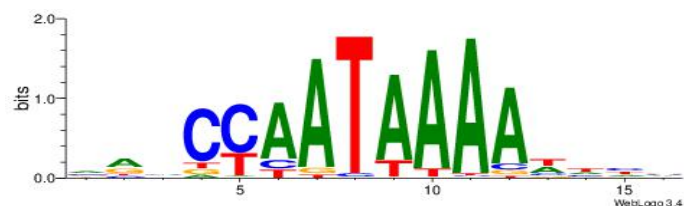


Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00930561

Alignment:
 VRHCCAATAAAWHHV
 -----WWTAAA-----

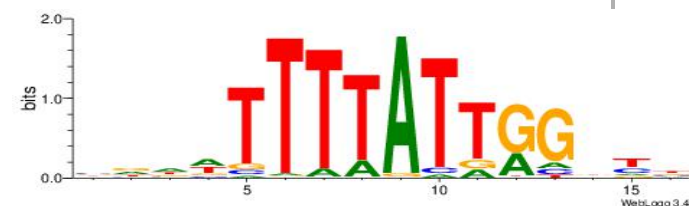
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWT TTTTATTGGDKB



Motif ID: [UP00121](#)

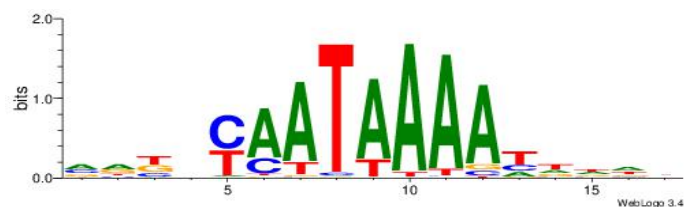
Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0106116

Alignment:

HDDDATTTTATTKVRDB
 -----TTTAWW-----

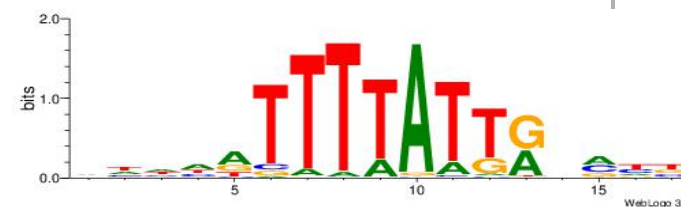
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 6

Similarity score: 0.0135319

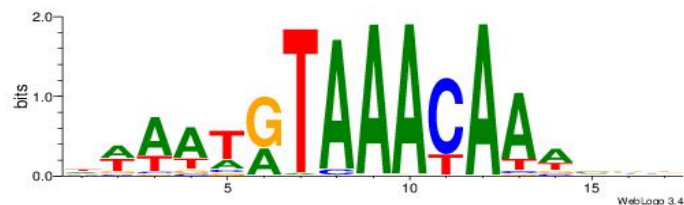
Alignment:

VVWTTGTTTAMATTWD

-----TTTAWW----

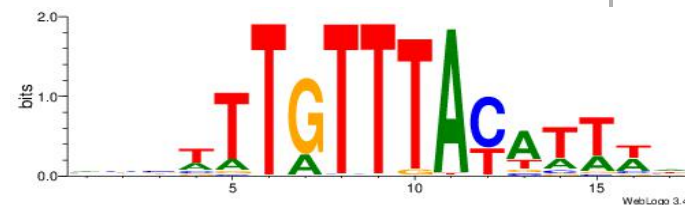
Original motif

Consensus sequence: DWAATRTAAACA WVV B



Reverse complement motif

Consensus sequence: VVWTTGTTTAMATTWD



Motif ID: [UP00133](#)

Motif name: Cdx2

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 7

Number of overlap: 6

Similarity score: 0.0138323

Alignment:

HRHTTTTATYMCCVBD

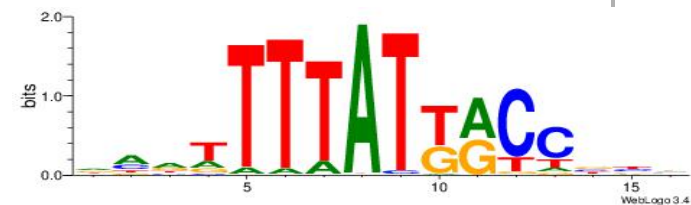
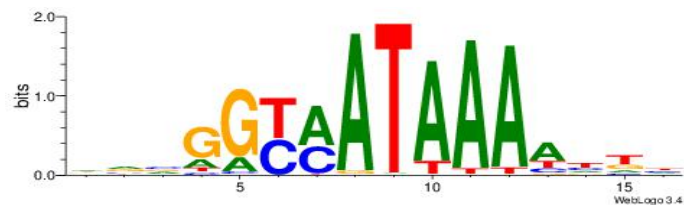
-----TTTAWW-----

Original motif

Consensus sequence: DVVGGYMATAAAHKH

Reverse complement motif

Consensus sequence: HRHTTTTATYMCCVBD



Dataset #: 1 Motif ID: 26 Motif name: Motif 26

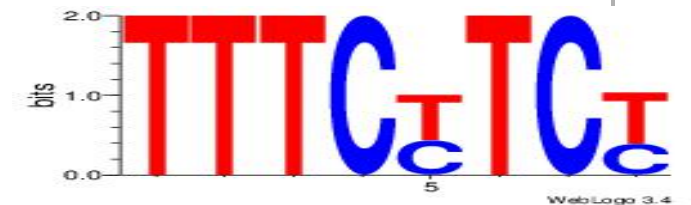
Original motif

Consensus sequence: RGARGAAA



Reverse complement motif

Consensus sequence: TTTCKTCK



Best Matches for Motif ID 26 (Highest to Lowest)

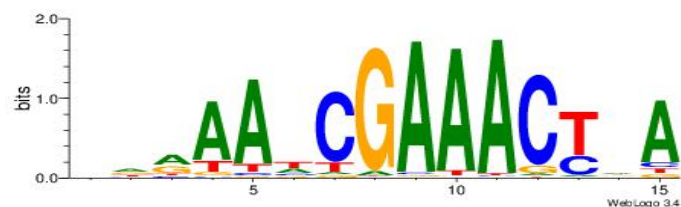
Motif ID:	UP00074
Motif name:	Isgf3g_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:

TDAGTTTCGWTTKDV
-----TTTCKTCK---

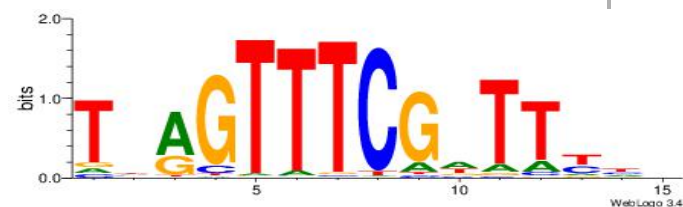
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



Motif ID: [UP00040](#)
Motif name: Irf5_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.000164051

Alignment:

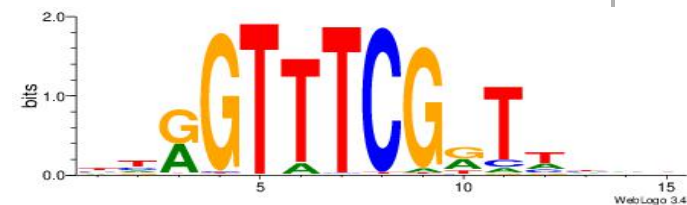
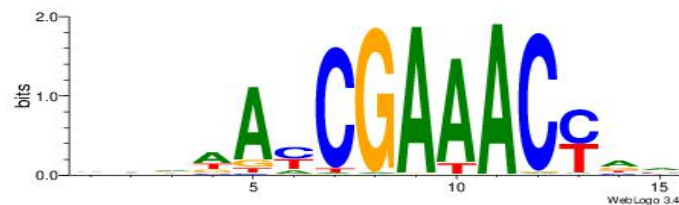
BDKGTTTCGKTWDDD
-----TTTCKTCK---

Original motif

Consensus sequence: DDDWAYCGAAACYDV

Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD

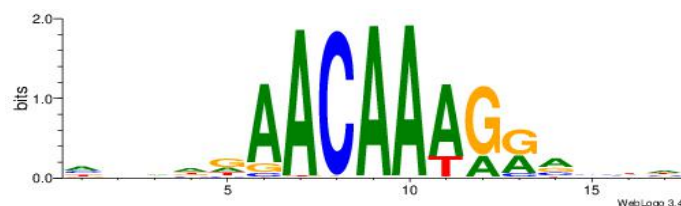


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00378534

Alignment:
 HBDDDAACAAAGRVBHH
 ---RGARGAAA-----

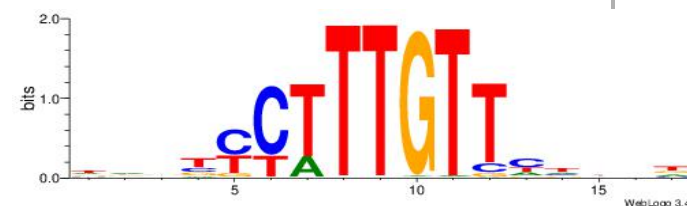
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00067](#)

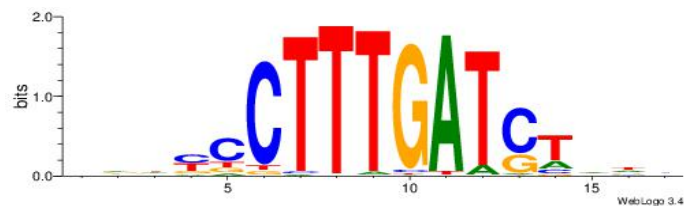
Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00434344

Alignment:

VDDAGATCAAAGGKDDD
 ---RGARGAAA-----

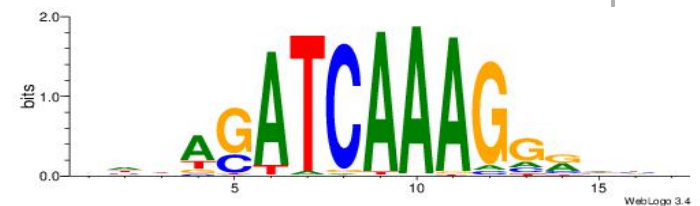
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8

Similarity score: 0.00478756

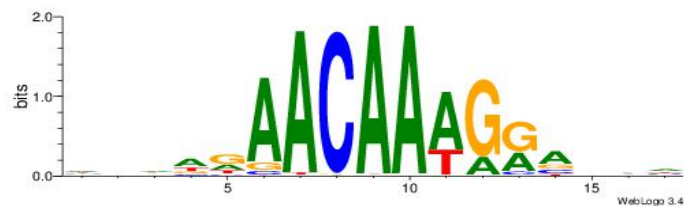
Alignment:

HHBTMCTTTGTTMDDVH

-----TTTCKTCK---

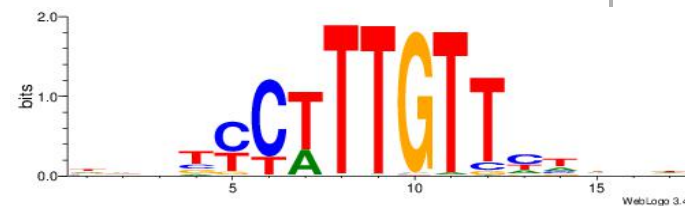
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Dataset #: 1 Motif ID: 27 Motif name: Motif 27

Original motif

Consensus sequence: CTGCCTKY



Reverse complement motif

Consensus sequence: KRAGGCAG



Best Matches for Motif ID 27 (Highest to Lowest)

Motif ID: [UP00031](#)
Motif name: Zbtb3_primary
Species: Mus musculus
Matching format of first motif: Original Motif

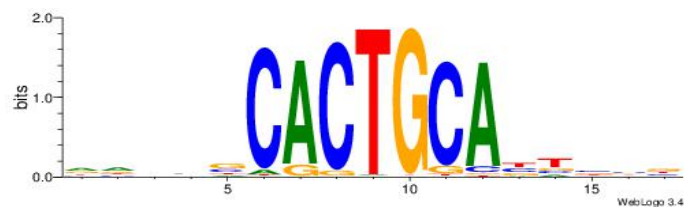
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

```
DDBBBCACTGCABTBBB
-----CTGCCTKY--
```

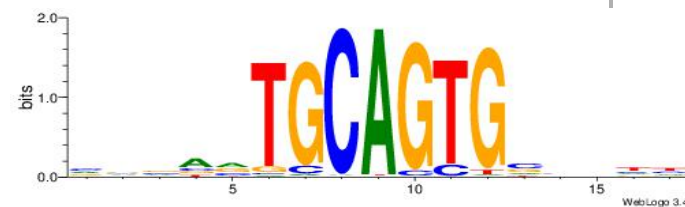
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



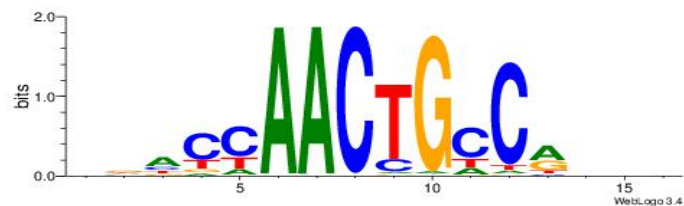
Motif ID:	UP00092
Motif name:	Myb_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.00277335

Alignment:

DBVKGGCAGTTGGTHB
-KRAGGCAG-----

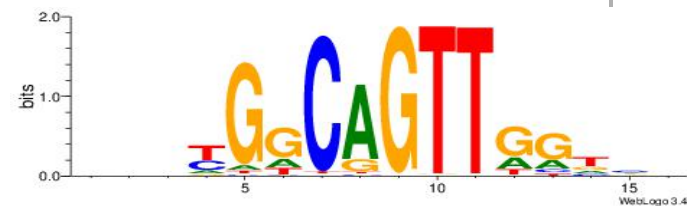
Original motif

Consensus sequence: BDACCAACTGCCRBH



Reverse complement motif

Consensus sequence: DBVKGGCAGTTGGTHB



Motif ID: [UP00045](#)
Motif name: Mafb_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.00419316

Alignment:

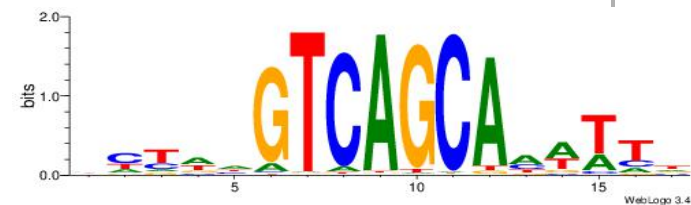
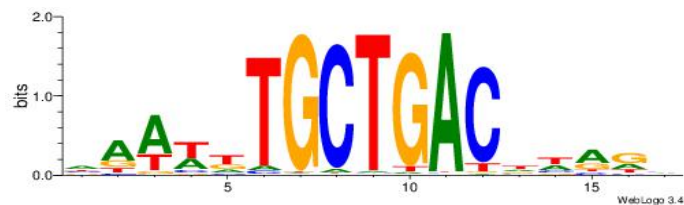
DMTWDGTCAGCADWTTH
--KRAGGCAG-----

Original motif

Consensus sequence: HAAWDTGCTGACDWARH

Reverse complement motif

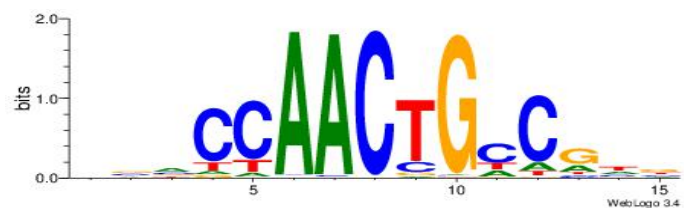
Consensus sequence: DMTWDGTCAGCADWTTH



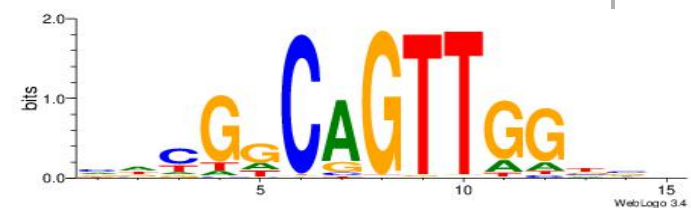
Motif ID: [UP00081](#)
 Motif name: Mybl1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.00632134

Alignment:
 BHCGGCAGTTGGBBB
 KRAGGCAG-----

Original motif
 Consensus sequence: BBVCCAACTGCCGHB



Reverse complement motif
 Consensus sequence: BHCGGCAGTTGGBBB



Motif ID: [UP00010](#)

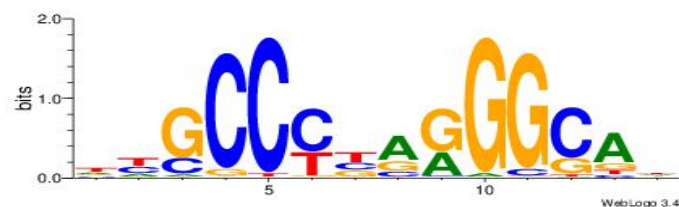
Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00866202

Alignment:

DYGCCYBARGGCAH
 -----KRAGGCAG

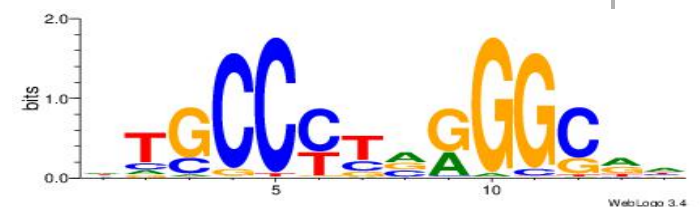
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



Dataset #: 1 Motif ID: 28 Motif name: Motif 28

Original motif

Consensus sequence: AVAGAAA

Reverse complement motif

Consensus sequence: TTTCTVT



Best Matches for Motif ID 28 (Highest to Lowest)

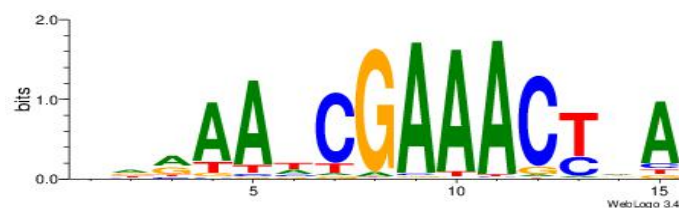
Motif ID: [UP00074](#)
 Motif name: Isgf3g_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0

Alignment:

TDAGTTTCGWTTKDV
 ----TTTCTVT----

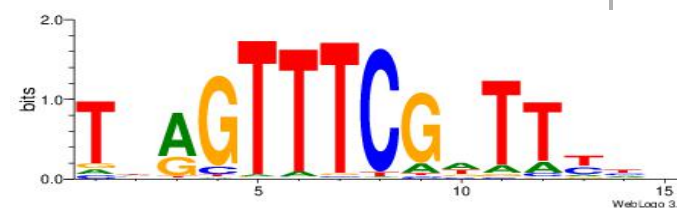
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



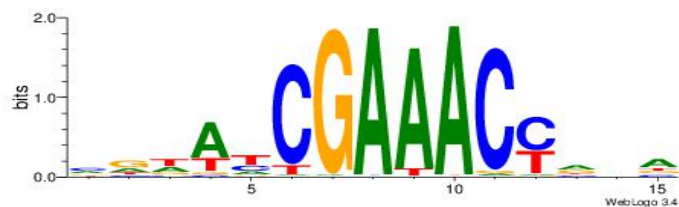
Motif ID: [UP00018](#)
 Motif name: Irf4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0019906

Alignment:

TBDKGTTCGMDHV
 -----TTTCTVT---

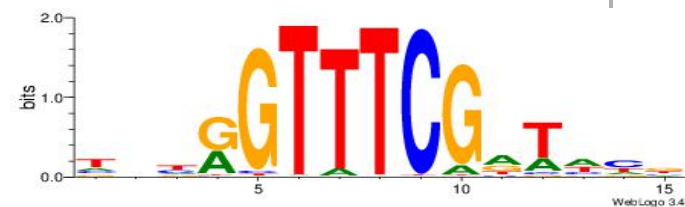
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

Consensus sequence: TBDKGTTCGMDHV



Motif ID: [UP00040](#)
 Motif name: Irf5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

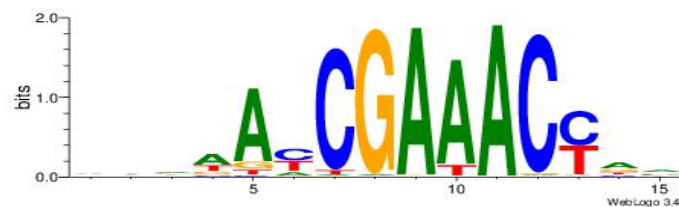
Number of overlap: 7
Similarity score: 0.00322534

Alignment:

BDKGTTCGKTWDDD
-----TTTCTVT-----

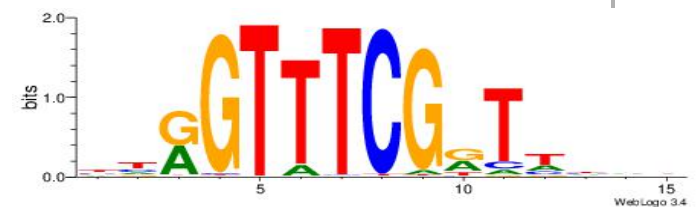
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTCGKTWDDD



Motif ID: [UP00011](#)
Motif name: Irf6_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 7
Similarity score: 0.00827965

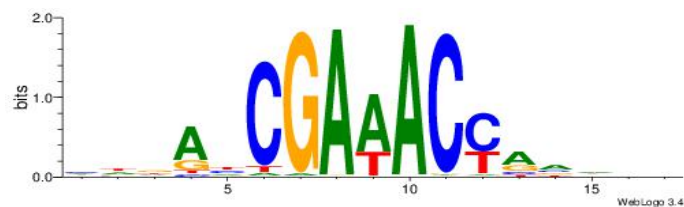
Alignment:

DHDBTKGTTTCGHTHDD
-----TTTCTVT---

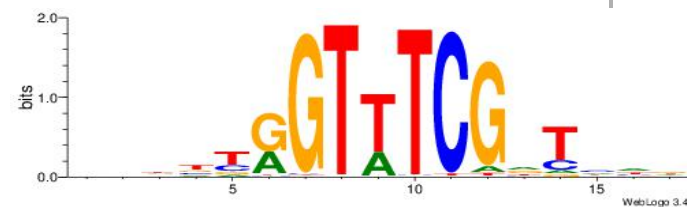
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD



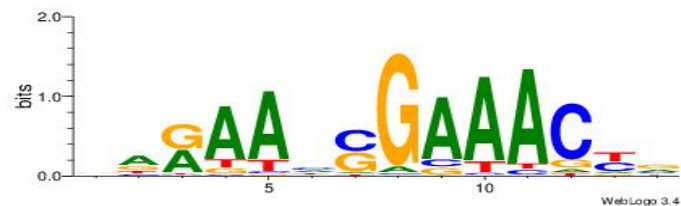
Motif ID: [UP00086](#)
Motif name: Irf3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 7
Similarity score: 0.0115602

Alignment:

BARAAHSGAAACYV
-----AVAGAAA----

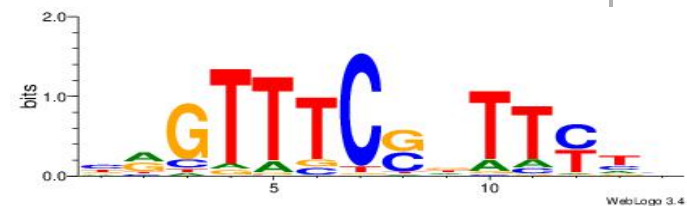
Original motif

Consensus sequence: BARAAHSGAAACYV



Reverse complement motif

Consensus sequence: VMGTTTCSDTTMTB



Dataset #: 1 **Motif ID: 29** **Motif name: Motif 29**

Original motif

Consensus sequence: CCMGCCCC



Reverse complement motif

Consensus sequence: GGGGCTGG



Best Matches for Motif ID 29 (Highest to Lowest)

Motif ID:	UP00002
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0

Alignment:

BDHHMCGCCCCCTHVBB

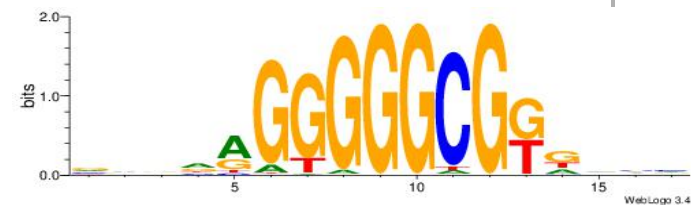
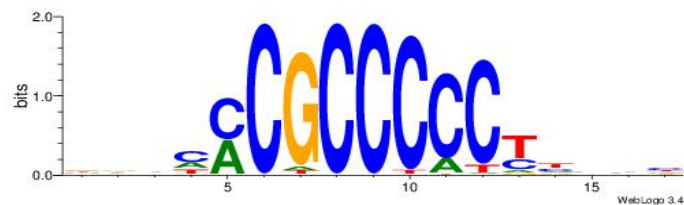
---CCMGCCCC-----

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

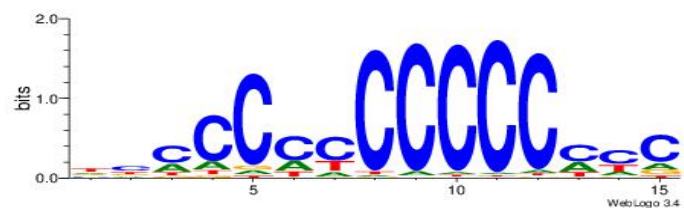


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000996799

Alignment:
 DBCCCCCCCCCMYC
 ---CCMGCCCC----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00093](#)

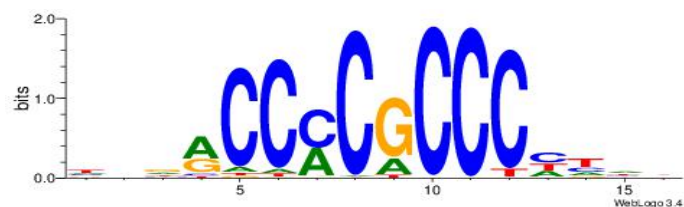
Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00552479

Alignment:

HBDRCMCGCCCHHD
 -----CCMGCCCC---

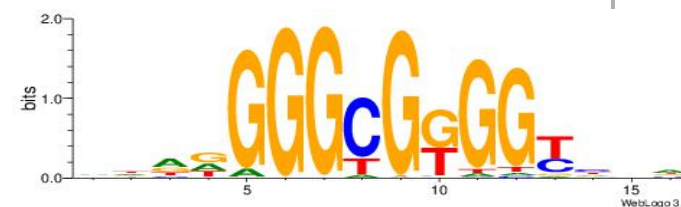
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8

Similarity score: 0.00785177

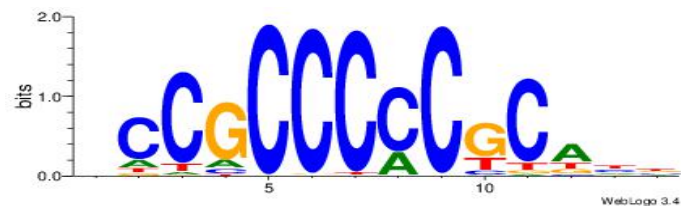
Alignment:

HCCGCCCCCGCAHB

CCMGCCCC-----

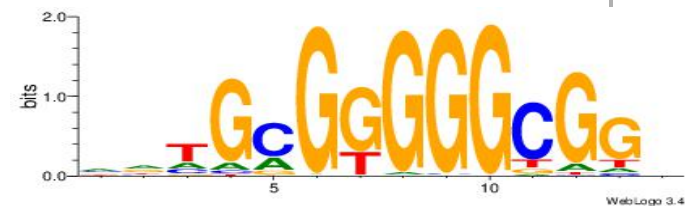
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00022](#)

Motif name: Zfp740_primary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Original Motif

Direction: Backward

Position number: 6

Number of overlap: 8

Similarity score: 0.0188994

Alignment:

HVBCCCCCCCCMHHHB

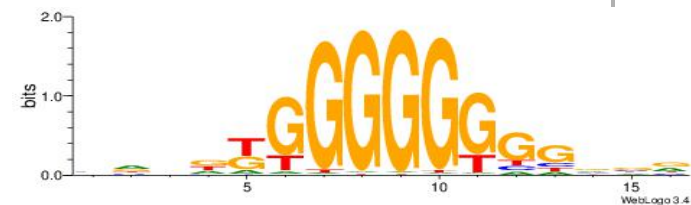
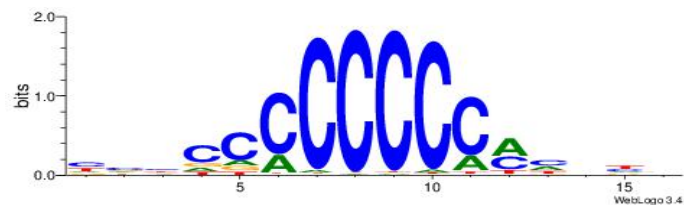
---CCMGCCCC-----

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



Dataset #: 1 **Motif ID: 30** **Motif name: Motif 30**

Original motif

Consensus sequence: CAGGARGM



Reverse complement motif

Consensus sequence: YCMTCTTG



Best Matches for Motif ID 30 (Highest to Lowest)

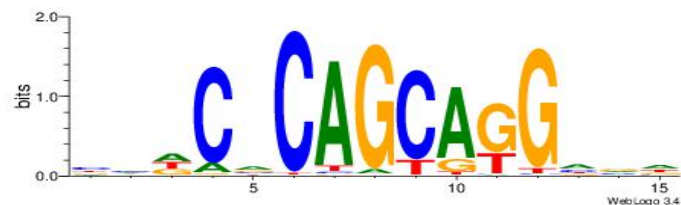
Motif ID:	UP00102
Motif name:	Zic1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0

Alignment:

BHDCVCAGCAGGHVD
-----CAGGARGM--

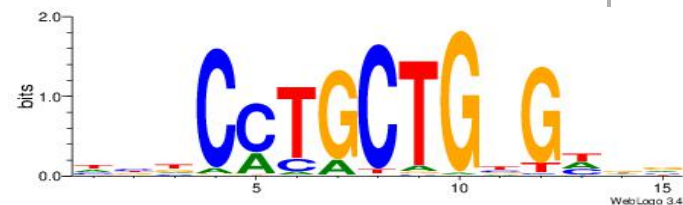
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



Motif ID:	UP00006
Motif name:	Zic3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.00147653

Alignment:

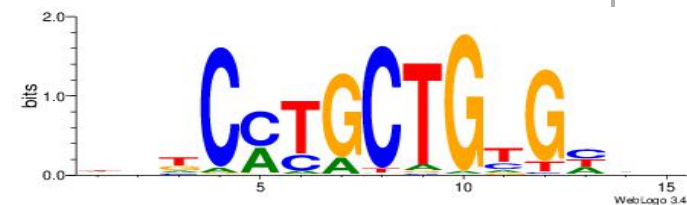
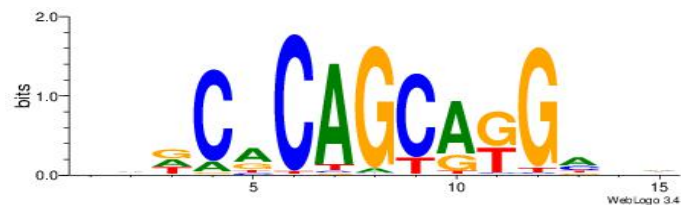
DDDCACAGCAKGHVD
-----CAGGARGM--

Original motif

Consensus sequence: DDDCACAGCAKGHVD

Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH

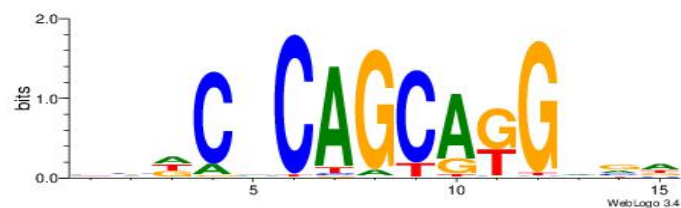


Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.00420108

Alignment:
 HHDCVCAGCAKGVVD
 -----CAGGARGM--

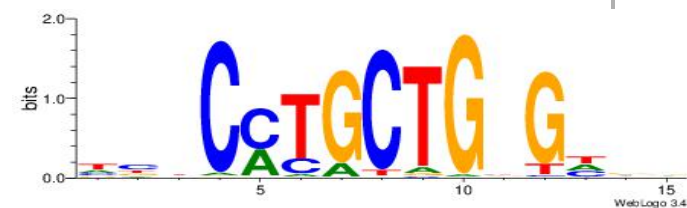
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00420](#)

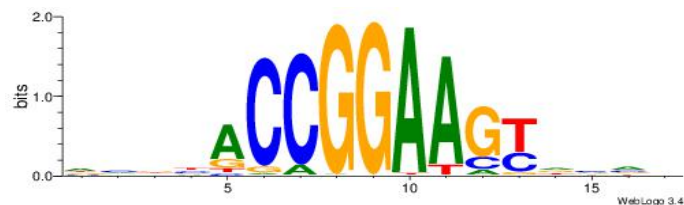
Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.00964839

Alignment:

DVBBACCGGAAGYDVVV
 -----CAGGARGM-----

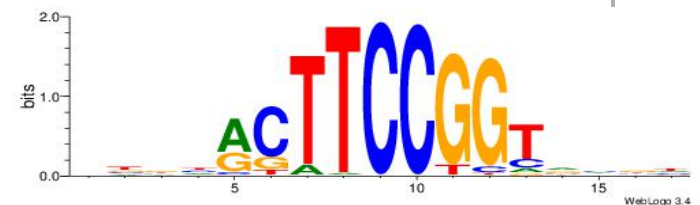
Original motif

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: Forward
 Position number: 6
 Number of overlap: 8

Similarity score: 0.0118889

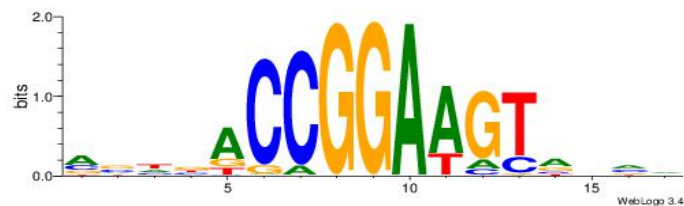
Alignment:

MVHBACCGGAAGTVDVH

-----CAGGARGM-----

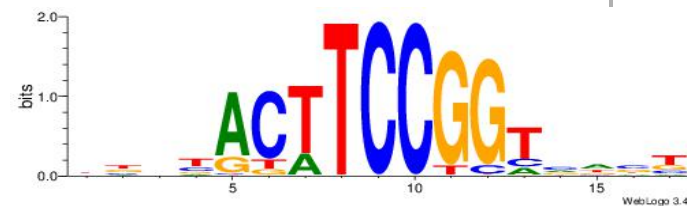
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 1 Motif ID: 31 Motif name: Motif 31

Original motif

Consensus sequence: CTGWSCTC



Reverse complement motif

Consensus sequence: GAGSWCAG



Best Matches for Motif ID 31 (Highest to Lowest)

Motif ID:	UP00095
Motif name:	Zfp691_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

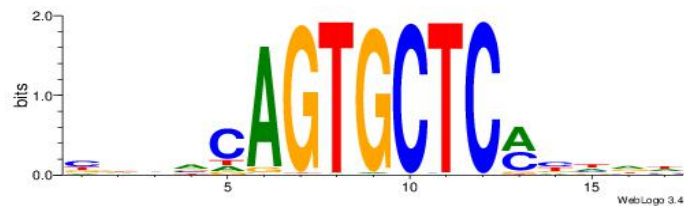
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

```
DDHBYGAGCACTGBHBB
-----GAGSWCAG-----
```

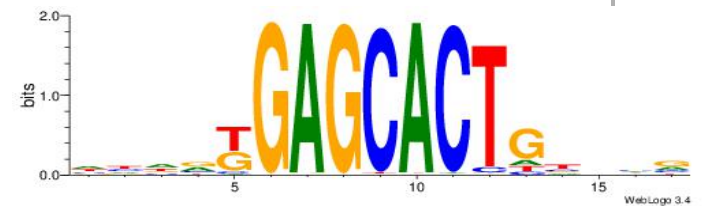
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHBB



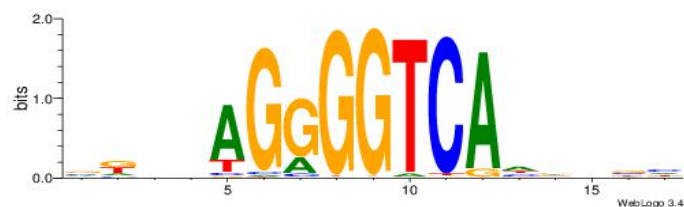
Motif ID:	UP00079
Motif name:	Esrra_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0111158

Alignment:

VKBBAGGGGTCAHDBBH
-----GAGSWCAG-----

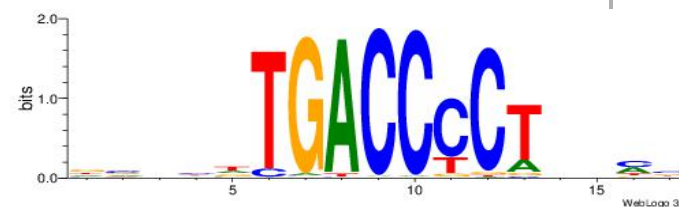
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID:	UP00048
Motif name:	Rara
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:	0.0141173

Alignment:

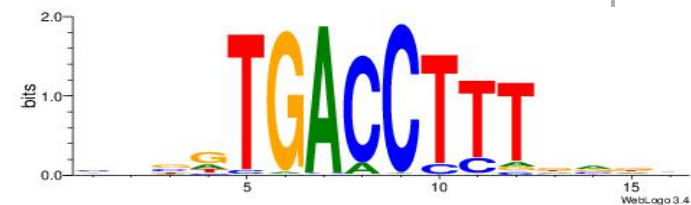
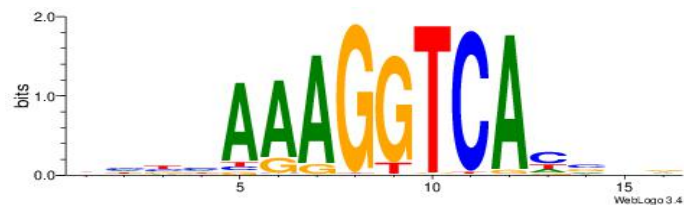
DHBHAAAGGTCACVHD
-----GAGSWCAG---

Original motif

Consensus sequence: DHBHAAAGGTCACVHD

Reverse complement motif

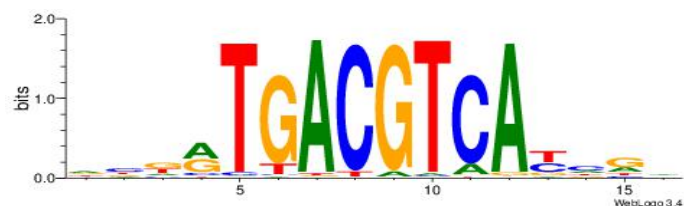
Consensus sequence: HHVGTGACCTTTDVDD



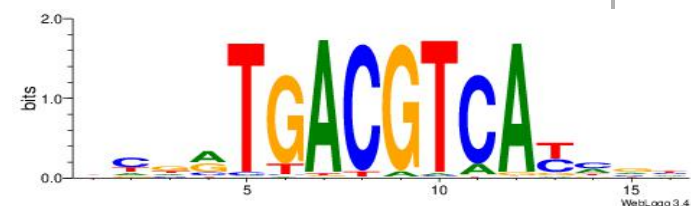
Motif ID: [UP00020](#)
 Motif name: Atf1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.014652

Alignment:
 DMDMTGACGTCACHBD
 -----GAGSWCAG----

Original motif
 Consensus sequence: DBDRTGACGTCAYHRD



Reverse complement motif
 Consensus sequence: DMDMTGACGTCACHBD



Motif ID: [UP00053](#)

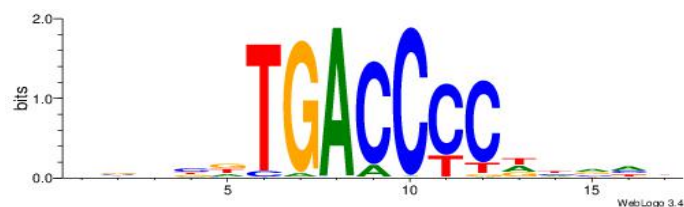
Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0149745

Alignment:

DBHBDTGACCCCDHVHB
 ----CTGWSCTC-----

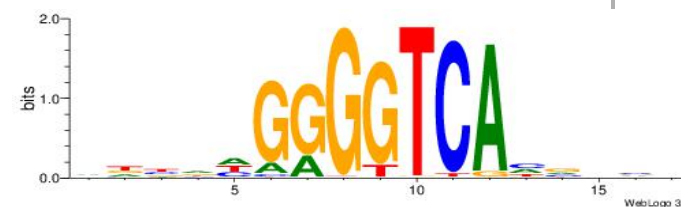
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



Dataset #: 1 Motif ID: 32 Motif name: Motif 32

Original motif

Consensus sequence: AVATGGC

Reverse complement motif

Consensus sequence: GCCATVT



Best Matches for Motif ID 32 (Highest to Lowest)

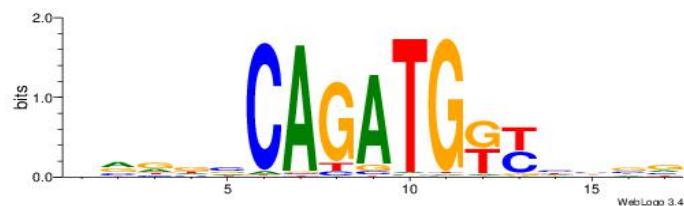
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0

Alignment:

HVDDVCAGATGKYHBBV
 -----AVATGGC-----

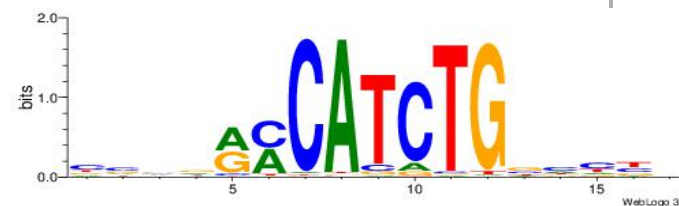
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



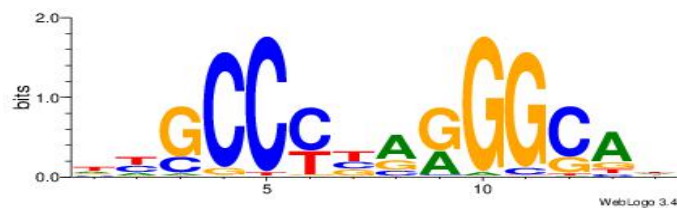
Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0136194

Alignment:

HTGCCMTVKGGCMD
 --GCCATVT-----

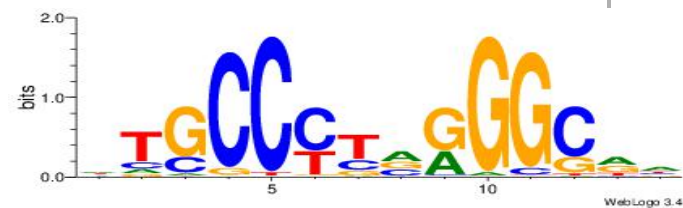
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



Motif ID: [UP00035](#)
 Motif name: Hic1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2

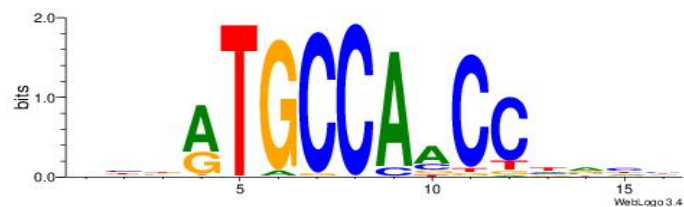
Number of overlap: 7
Similarity score: 0.0137364

Alignment:

DDBHGGTTGGCATVBD
-----GCCATVT--

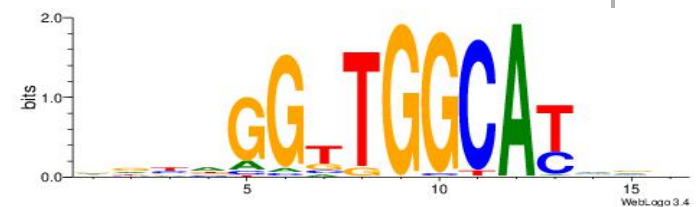
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID: [UP00186](#)
Motif name: Meis1
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: 7
Similarity score: 0.015326

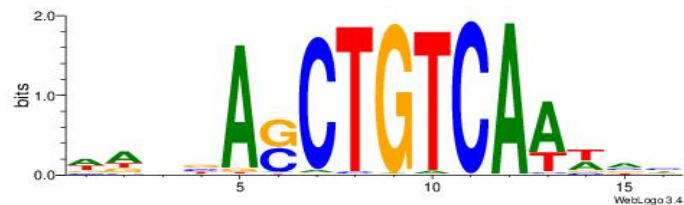
Alignment:

WAVBASCTGTCAAWVH
----AVATGGC-----

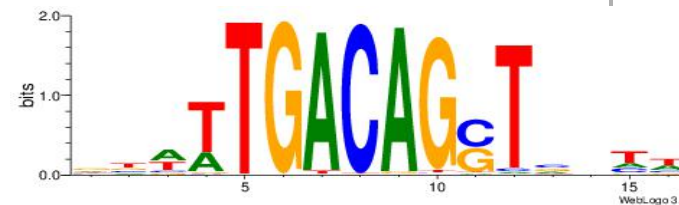
Original motif

Reverse complement motif

Consensus sequence: WAVBASCTGTCAAWVH



Consensus sequence: DBWTTGACAGSTBVTW



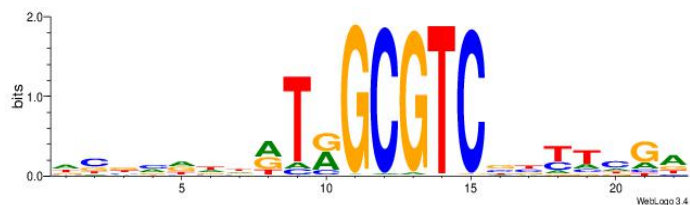
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 7
Similarity score: 0.015763

Alignment:

```
TCDAMVBGACGCMKDDDDVBBD  
-----GCCATVT-----
```

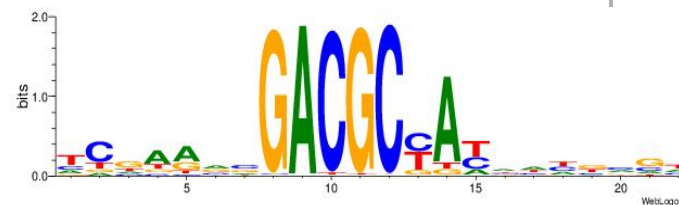
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDDVBBD



Dataset #: 1 **Motif ID: 33** **Motif name: Motif 33**

Original motif

Consensus sequence: CMTTCC



Reverse complement motif

Consensus sequence: GGAAARG



Best Matches for Motif ID 33 (Highest to Lowest)

Motif ID:	UP00424
Motif name:	Gm4881
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:	7
Similarity score:	0

Alignment:

VBBHAYTTCCGGTDDD

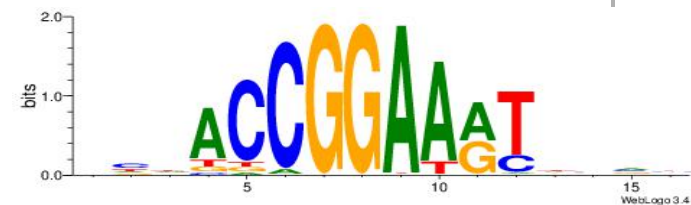
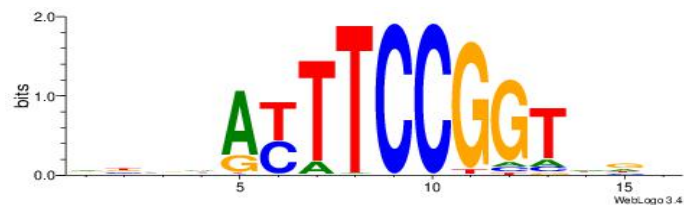
---CMTTCC-----

Original motif

Consensus sequence: VBBHAYTTCCGGTDDD

Reverse complement motif

Consensus sequence: DHDACCGGAAMTHBVB

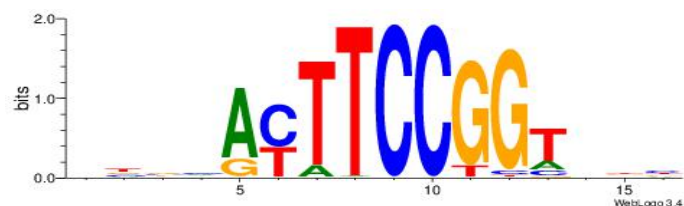


Motif ID: [UP00411](#)
 Motif name: Erg
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.000621119

Alignment:
 VBBVAYTTCCGGTDDB
 ---CMTTTC-----

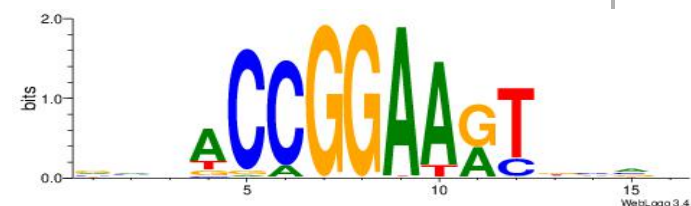
Original motif

Consensus sequence: VBBVAYTTCCGGTDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



Motif ID: [UP00416](#)

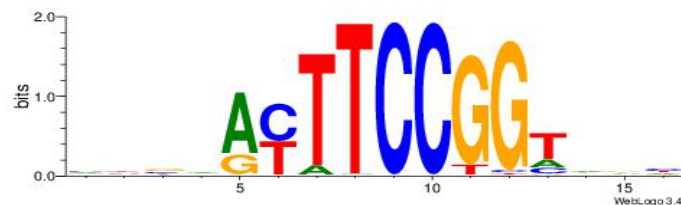
Motif name: Fli1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.00145577

Alignment:

VBBVAYTTCCGGTDDH
 ---CMTTTC-----

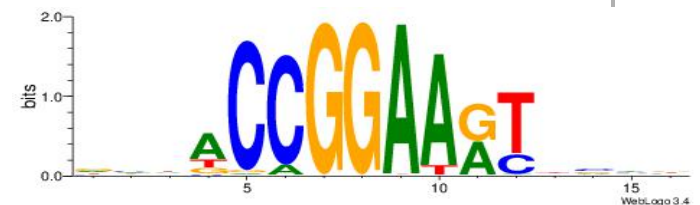
Original motif

Consensus sequence: VBBVAYTTCCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAAGTBBV



Motif ID: [UP00422](#)
 Motif name: Etv3
 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: 7

Similarity score: 0.00170257

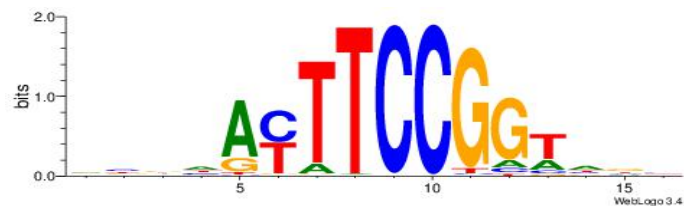
Alignment:

VBBHAYTTCCGGTHDH

---CMTTTC-----

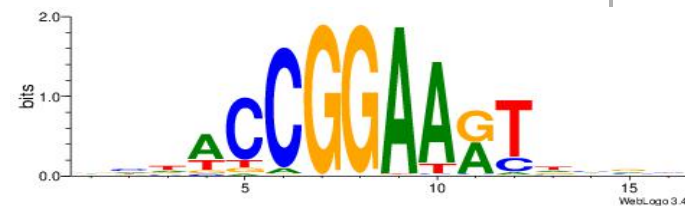
Original motif

Consensus sequence: VBBHAYTTCCGGTHDH



Reverse complement motif

Consensus sequence: DHHACCGGAAKTHBBB



Motif ID: [UP00418](#)

Motif name: Etv6

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: 7

Similarity score: 0.00598804

Alignment:

DVHBTACTTCCGGHTHB

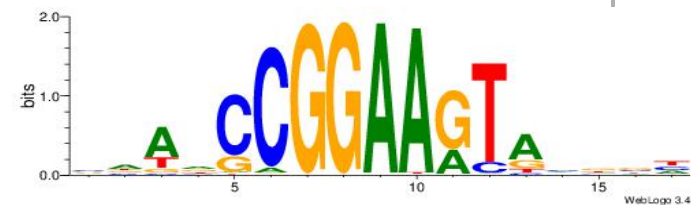
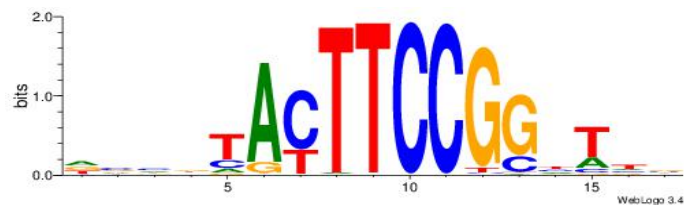
----CMTTTC-----

Original motif

Consensus sequence: DVHBTACTTCCGGHTHB

Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Dataset #: 1 Motif ID: 34 Motif name: Motif 34

Original motif

Consensus sequence: ATATTTA



Reverse complement motif

Consensus sequence: TAAATAT



Best Matches for Motif ID 34 (Highest to Lowest)

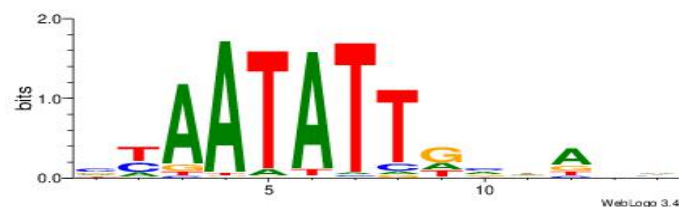
Motif ID:	UP00059
Motif name:	Arid5a_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	7
Similarity score:	0

Alignment:

VYAATATTGVDADH
---ATATTTA----

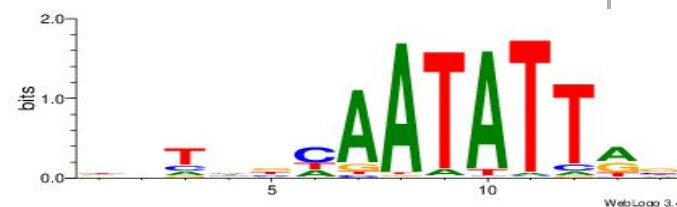
Original motif

Consensus sequence: VYAATATTGVDADH



Reverse complement motif

Consensus sequence: HDTDVCAATATTMV



Motif ID:	UP00073
Motif name:	Foxa2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	7
Similarity score:	0.00064316

Alignment:

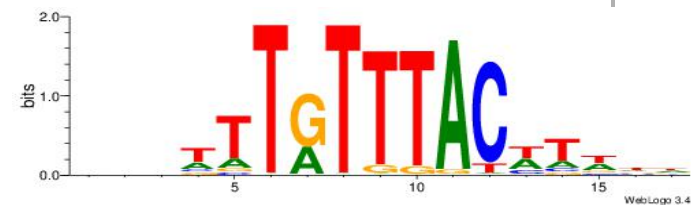
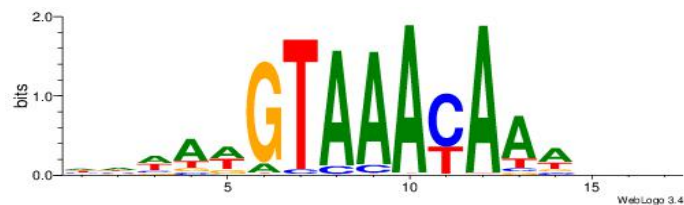
HHWAWGTAAAYAAVDB
-----TAAATAT-----

Original motif

Consensus sequence: HHWAWGTAAAYAAVDB

Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

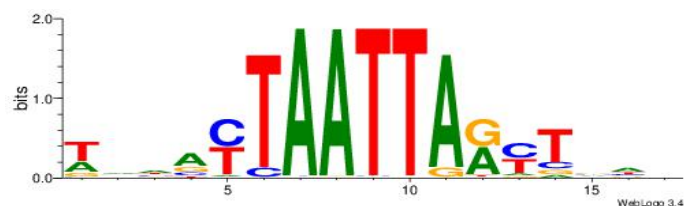


Motif ID: [UP00108](#)
 Motif name: Alx3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00321096

Alignment:
 VHVAKMTAATTAKTHBW
 -----ATATTTA-----

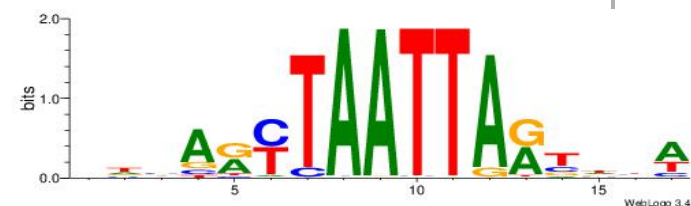
Original motif

Consensus sequence: WVHAYTAATTARYTVHV



Reverse complement motif

Consensus sequence: VHVAKMTAATTAKTHBW



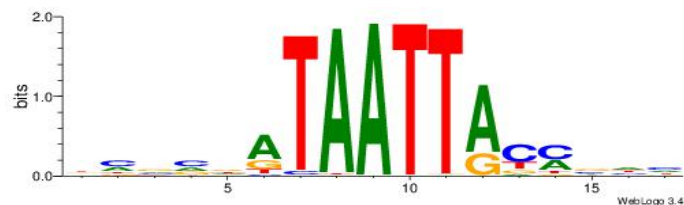
Motif ID: [UP00154](#)

Motif name: Dlx3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00327881

Alignment:
 BHVVDATAATTACMVHH
 -----ATATTTA-----

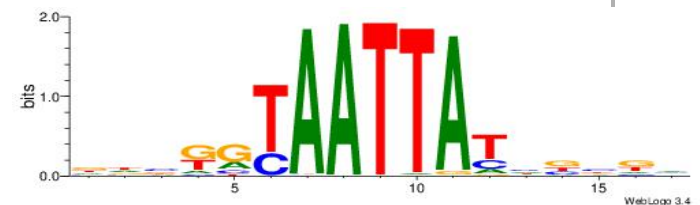
Original motif

Consensus sequence: BHVVDATAATTACMVHH



Reverse complement motif

Consensus sequence: DHVRGTAATTATHVVDV



Motif ID: [UP00061](#)
 Motif name: Foxl1_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: 7

Similarity score: 0.00408089

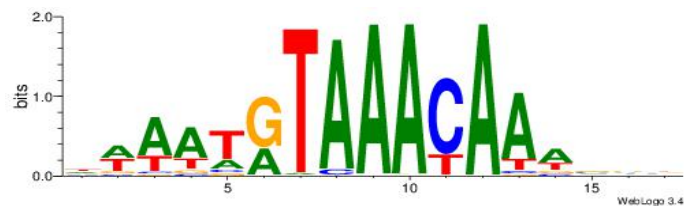
Alignment:

DWAATR TAAACA WVB

-----TAAATAT-----

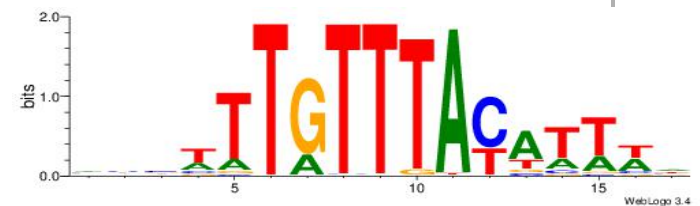
Original motif

Consensus sequence: DWAATR TAAACA WVB



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Dataset #: 1 **Motif ID: 35** **Motif name: Motif 35**

Original motif

Consensus sequence: KGCTGG



Reverse complement motif

Consensus sequence: SCCAGC



Best Matches for Motif ID 35 (Highest to Lowest)

Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

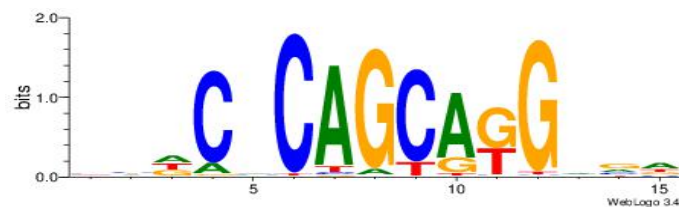
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	7
Similarity score:	0

Alignment:

```
DVBCYTGCTGBGDDD
-----KGCTGGS----
```

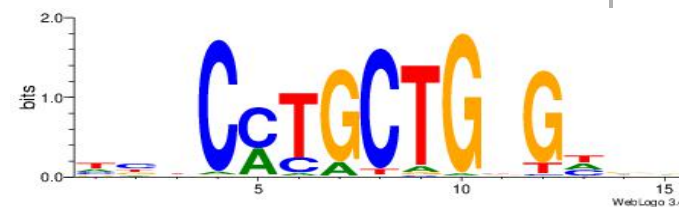
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



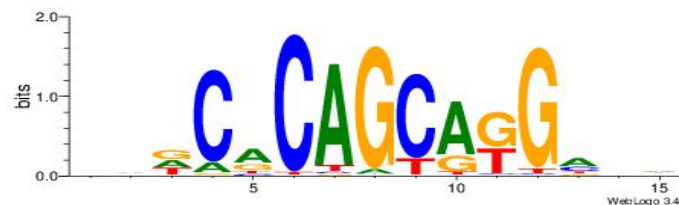
Motif ID:	UP00006
Motif name:	Zic3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	7
Similarity score:	0.000909168

Alignment:

DVHCYTGCTGTGHDH
 -----KGCTGGS----

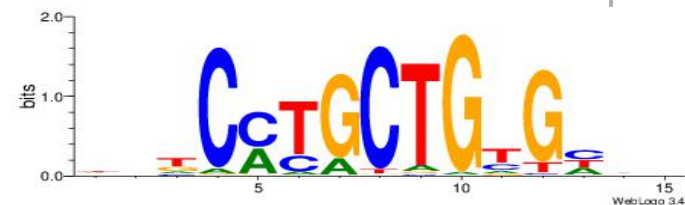
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID:	UP00102
Motif name:	Zic1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	7
Similarity score:	0.00192341

Alignment:

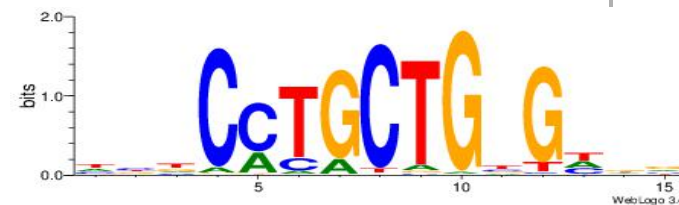
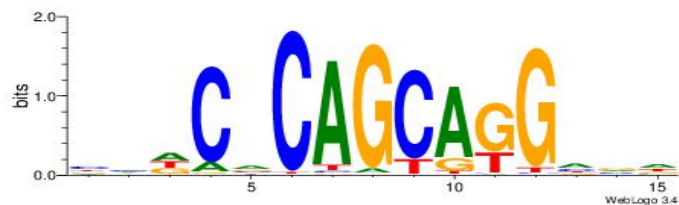
DVHCCTGCTGBGDDB
 -----KGCTGGS----

Original motif

Consensus sequence: BHDCVCAGCAGGHVD

Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDB

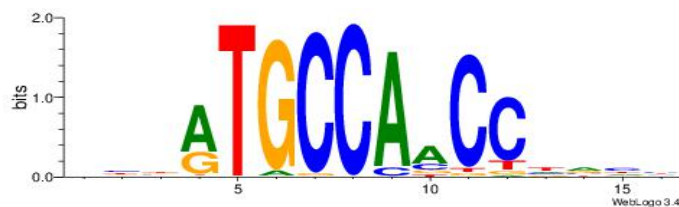


Motif ID: [UP00035](#)
 Motif name: Hic1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00396963

Alignment:
 DDBHGGTTGGCATVBD
 ----KGCTGGS-----

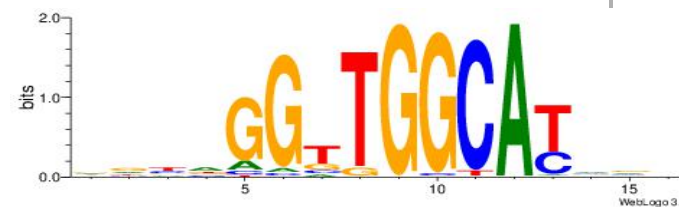
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID: [UP00045](#)

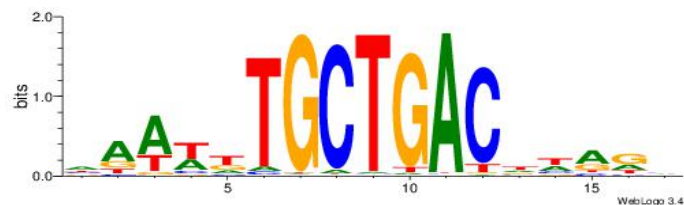
Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.010167

Alignment:

DMTWDGTCAGCADWTTH
 -----SCCAGCR-----

Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



Dataset #: 1 Motif ID: 36 Motif name: Motif 36

Original motif

Consensus sequence: CATGGTGG

Reverse complement motif

Consensus sequence: CCACCATG



Best Matches for Motif ID 36 (Highest to Lowest)

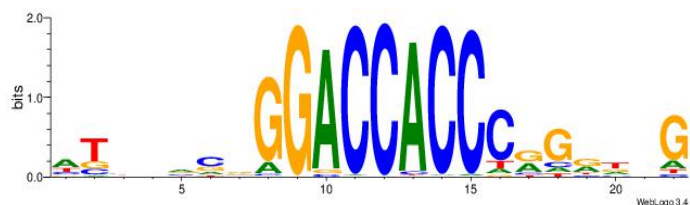
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 11
 Number of overlap: 8
 Similarity score: 0

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 ----CATGGTGG-----

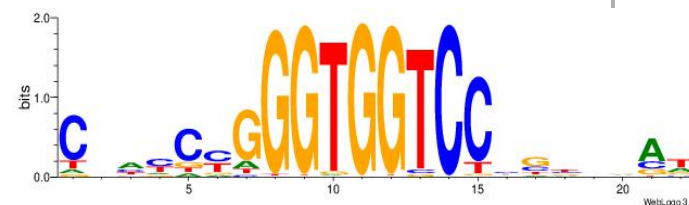
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



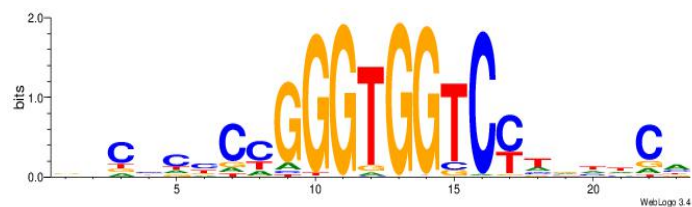
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 8
 Similarity score: 0.00612072

Alignment:

HGDHVKHGACCAACCGGBGBGDB
 -----CCACCATG-----

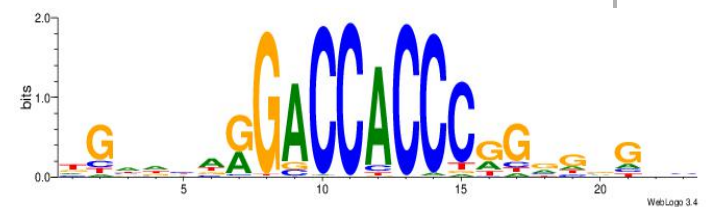
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCAACCGGBGBGDB



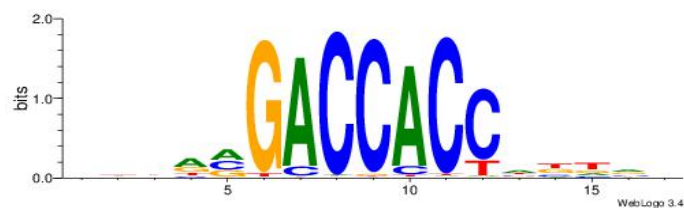
Motif ID: [UP00047](#)
 Motif name: Zbtb7b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8

Number of overlap: 8
Similarity score: 0.0105198

Alignment:
BDDRVGACCACCHBDVB
-----CCACCATG--

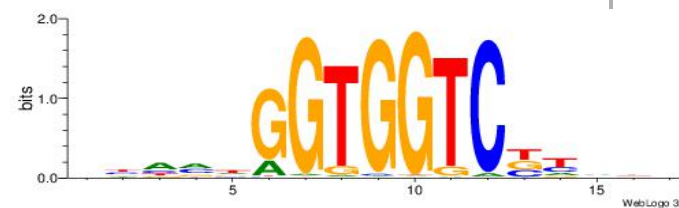
Original motif

Consensus sequence: BDDRVGACCACCHBDVB



Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



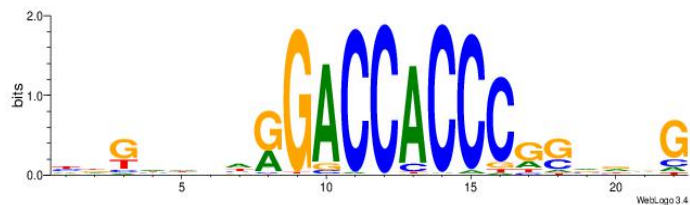
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 8
Similarity score: 0.013412

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
----CATGGTGG-----

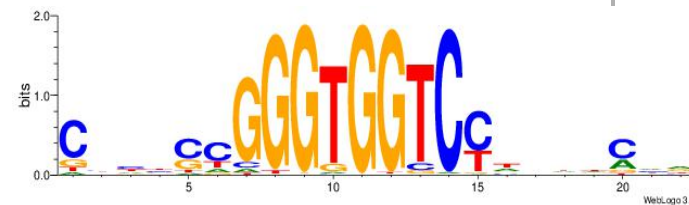
Original motif

Reverse complement motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



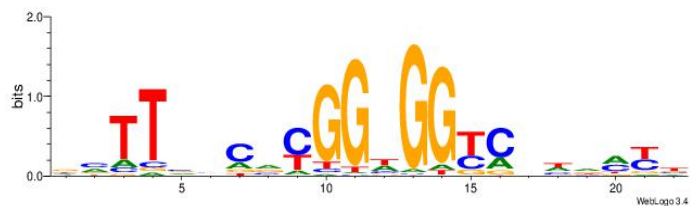
Motif ID: [UP00540](#)
Motif name: Gli3_v015681_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.0205127

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
-----CATGGTGG-----

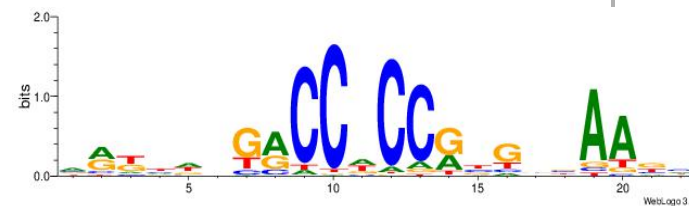
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



Dataset #: 1 **Motif ID: 37** **Motif name: Motif 37**

Original motif

Consensus sequence: GYATGTGY



Reverse complement motif

Consensus sequence: KCACATKC



Best Matches for Motif ID 37 (Highest to Lowest)

Motif ID:	UP00042
Motif name:	Gm397_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

HHRTATGTGCACATHHD

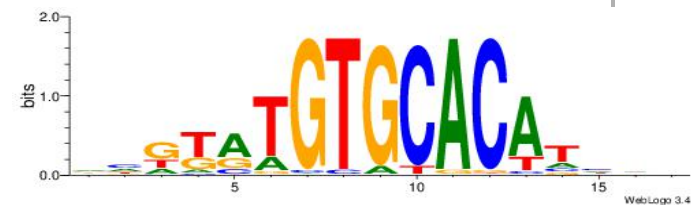
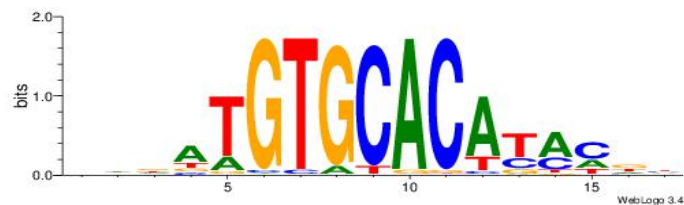
--GYATGTGY-----

Original motif

Consensus sequence: HHDATGTGCACATAMDH

Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD

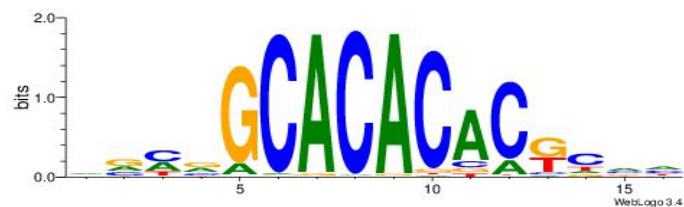


Motif ID: [UP00042](#)
 Motif name: Gm397_second
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00557849

Alignment:
 HBGYGTGTGTGCVRVD
 ----GYATGTGY----

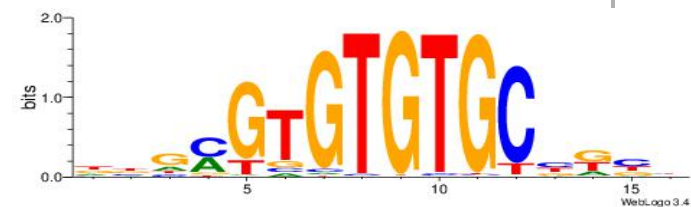
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00050](#)

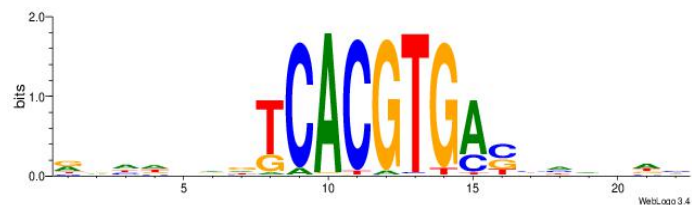
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0130509

Alignment:

RDHDBVDTACGTGASBHVHDH
 -----KCACATKC-----

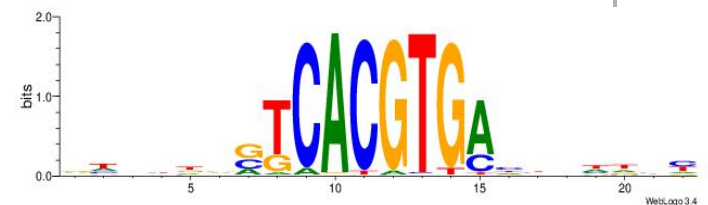
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDHHM



Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 8

Similarity score: 0.0145166

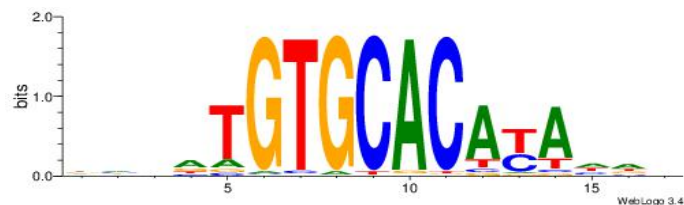
Alignment:

HDHTMTGTGCACADVHD

-----KCACATKC-

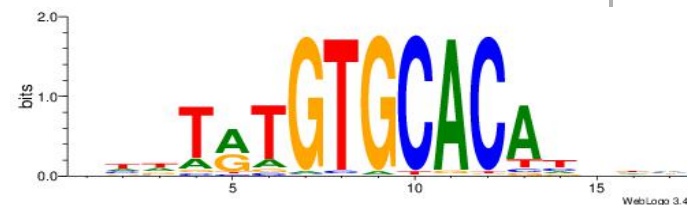
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID: [UP00046](#)
Motif name: Tcfe2a_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 8
Similarity score: 0.0157001

Alignment:

DHDBHGCACCTGBDDVB

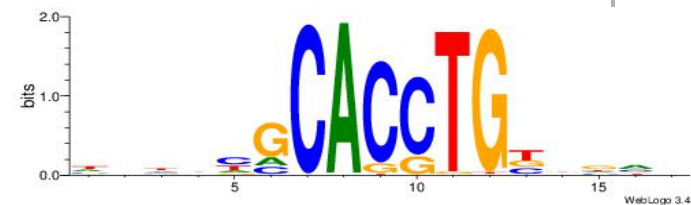
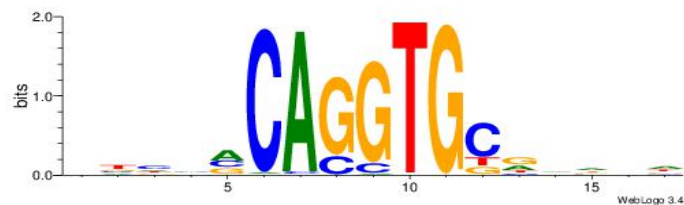
-----KCACATKC-----

Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD

Reverse complement motif

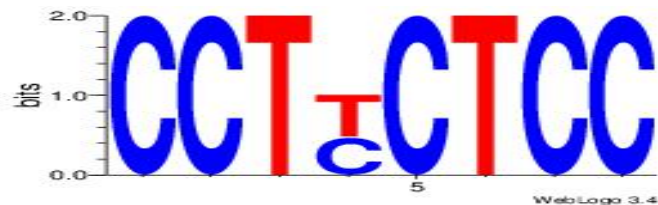
Consensus sequence: DHDBHGCACCTGBDDVB



Dataset #: 1 Motif ID: 38 Motif name: Motif 38

Original motif

Consensus sequence: CCTYCTCC



Reverse complement motif

Consensus sequence: GGAGMAGG



Best Matches for Motif ID 38 (Highest to Lowest)

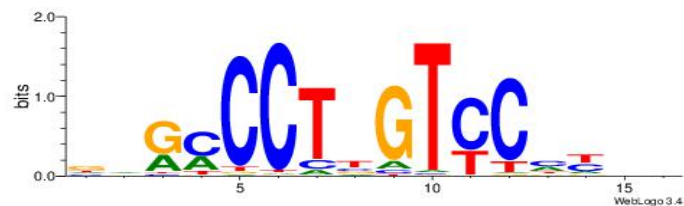
Motif ID:	UP00082
Motif name:	Zfp187_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0

Alignment:

VHMDGGACVAGGRCDH
-----GGAGMAGG-----

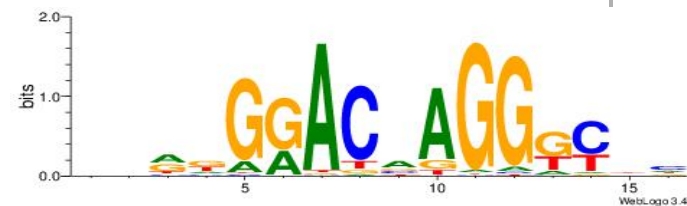
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID: [UP00021](#)
Motif name: Zfp281_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0171216

Alignment:

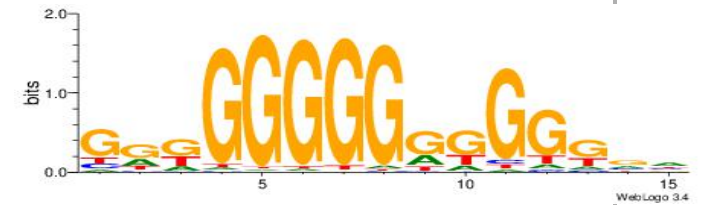
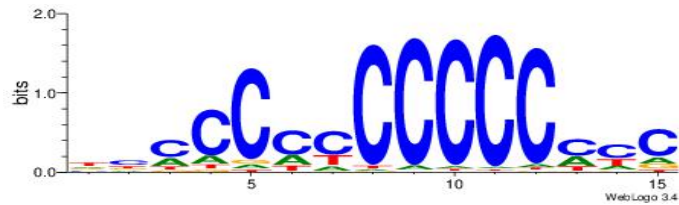
DBCCCCCCCCCMYC
---CCTYCTCC----

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

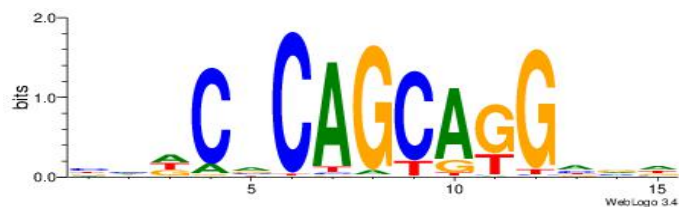


Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0279988

Alignment:
 BHDCVCAGCAGGHVD
 ----GGAGMAGG----

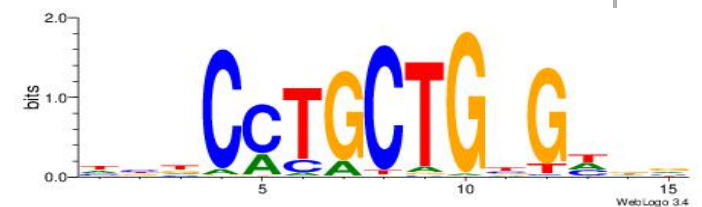
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



Motif ID: [UP00539](#)

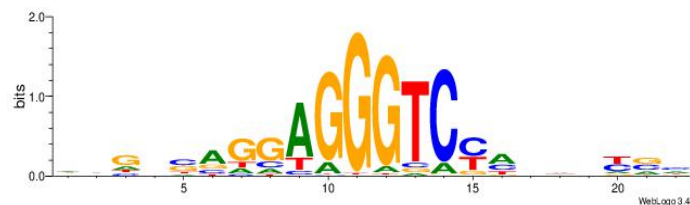
Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 12
 Number of overlap: 8
 Similarity score: 0.0293564

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 -----CCTYCTCC---

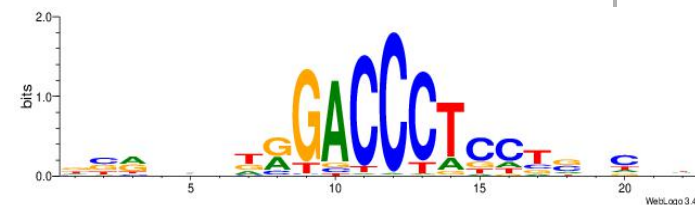
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8

Similarity score: 0.0307412

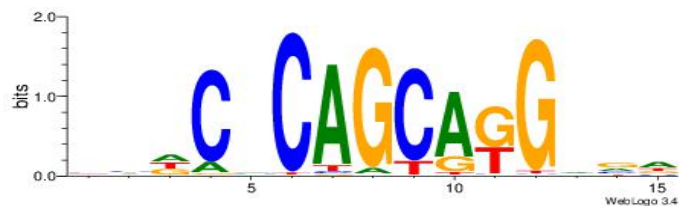
Alignment:

HHDCVCAGCAKGVVD

----GGAGMAGG----

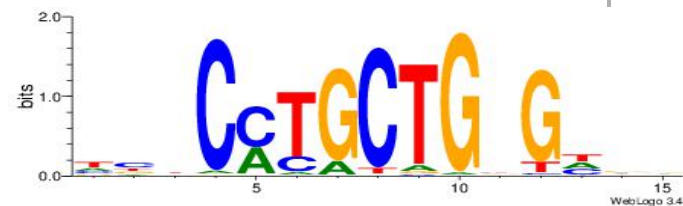
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Dataset #: 1 Motif ID: 39 Motif name: Motif 39

Original motif

Consensus sequence: ACAGMCAG



Reverse complement motif

Consensus sequence: CTGYCTGT



Best Matches for Motif ID 39 (Highest to Lowest)

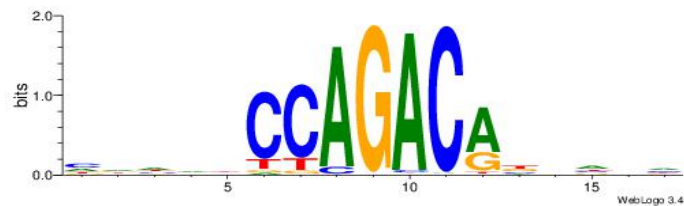
Motif ID:	UP00000
Motif name:	Smad3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0

Alignment:
 HDHDDCCAGACABBHVH
 -----ACAGMCAG-----

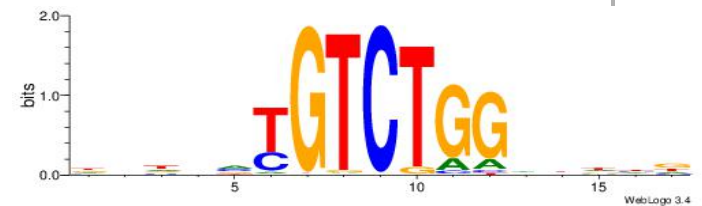
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



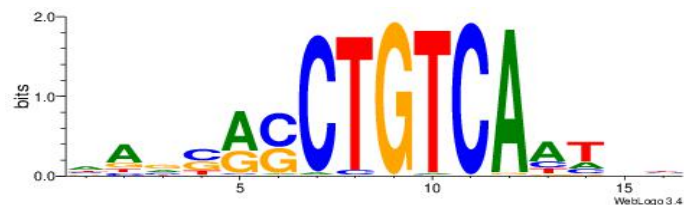
Motif ID:	UP00205
Motif name:	Pknox2
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0021284

Alignment:

VHATTGACAGSKSVTH
--ACAGMCAG-----

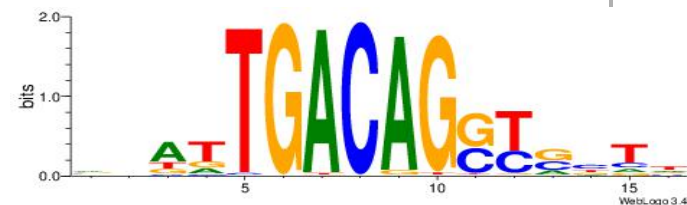
Original motif

Consensus sequence: HAVSRCTGTCAATHB



Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH



Motif ID:	UP00092
Motif name:	Myb_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.00279845

Alignment:

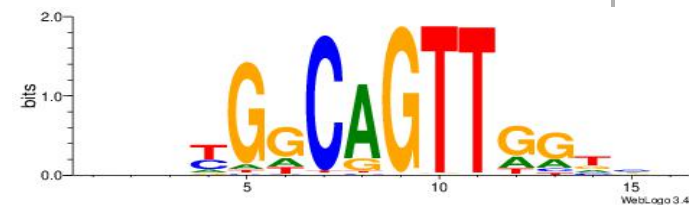
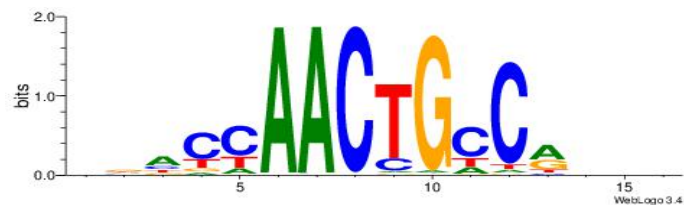
BDACCAACTGCCRBH
-----ACAGMCAG--

Original motif

Consensus sequence: BDACCAACTGCCRBH

Reverse complement motif

Consensus sequence: DBVKGGCAGTTGGTHB

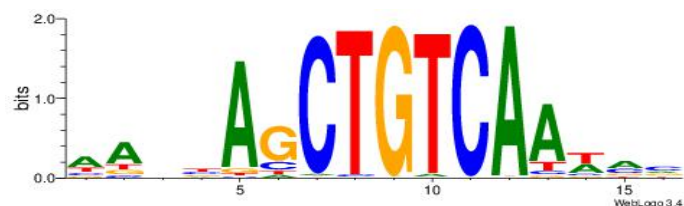


Motif ID: [UP00258](#)
 Motif name: Tgif2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00437554

Alignment:
 VBWTTGACAGCTVBTT
 -----ACAGMCAG--

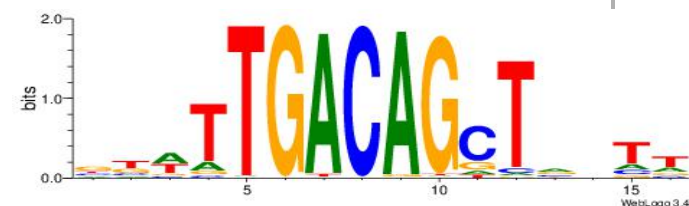
Original motif

Consensus sequence: AABAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



Motif ID: [UP00122](#)

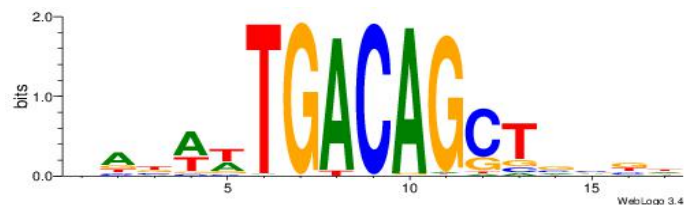
Motif name: Tgif1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0048776

Alignment:

DBVVAGCTGTCAWWVTH
 -----CTGYCTGT---

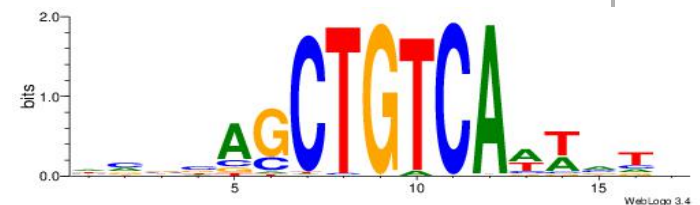
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWWVTH



Dataset #: 1 Motif ID: 40 Motif name: Motif 40

Original motif

Consensus sequence: CCACASC

Reverse complement motif

Consensus sequence: GSTGTGG



Best Matches for Motif ID 40 (Highest to Lowest)

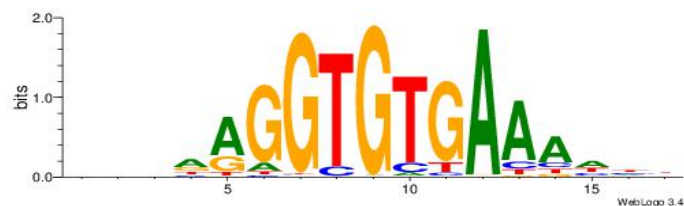
Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0

Alignment:

BVHDAGGTGTGAAHHH
 -----GSTGTGG-----

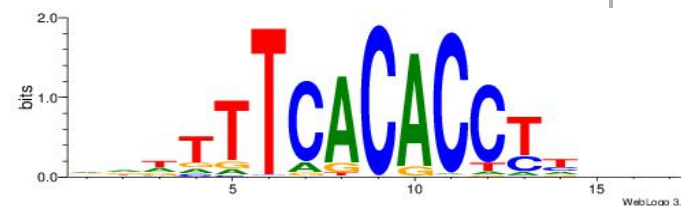
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



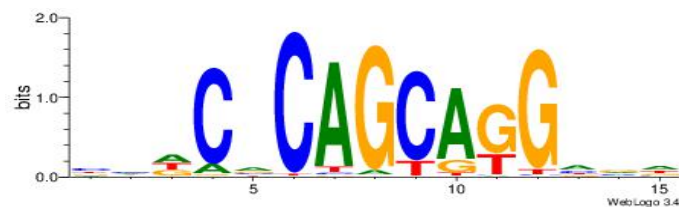
Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 7
 Similarity score: 0.00152086

Alignment:

DVHCCTGCTGBGDDDB
 -----GSTGTGG--

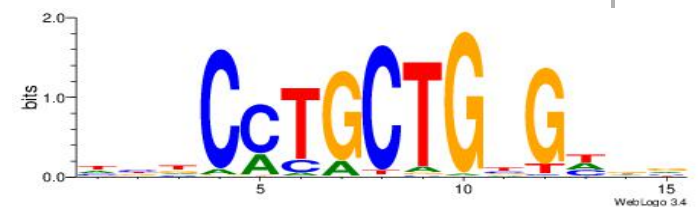
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5

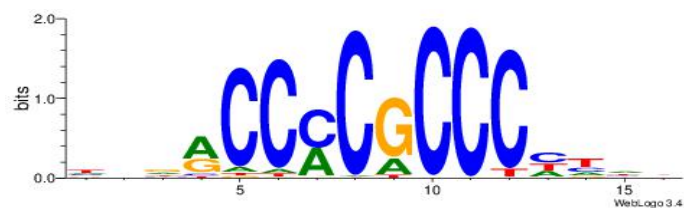
Number of overlap: 7
Similarity score: 0.00208498

Alignment:

HDRCCMCGCCCHHD
-----CCACASC-----

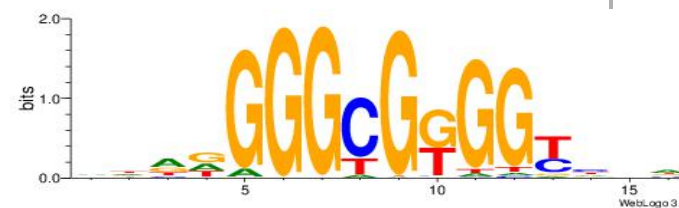
Original motif

Consensus sequence: HDRCCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00068](#)
Motif name: Eomes_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 7
Similarity score: 0.00280198

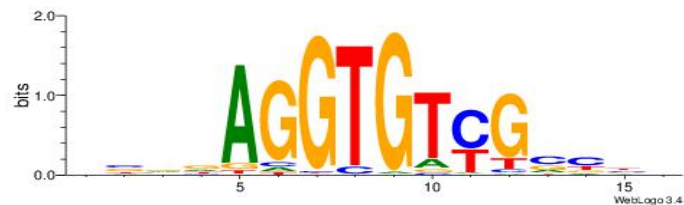
Alignment:

VVBVCKACACCTHVBV
-----CCACASC-----

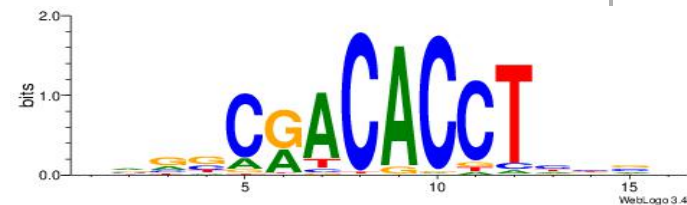
Original motif

Reverse complement motif

Consensus sequence: VBVDAGGTGTYGVBBV



Consensus sequence: VVBVCKACACCTHVBV



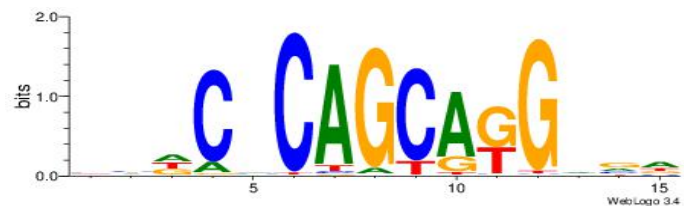
Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 7
Similarity score: 0.00486301

Alignment:

DVBCYTGCTGBGDDD
-----GSTGTGG--

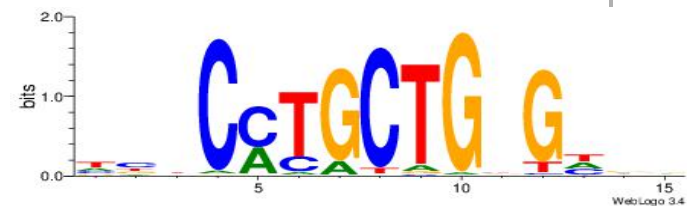
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Dataset #: 1 **Motif ID: 41** **Motif name: Motif 41**

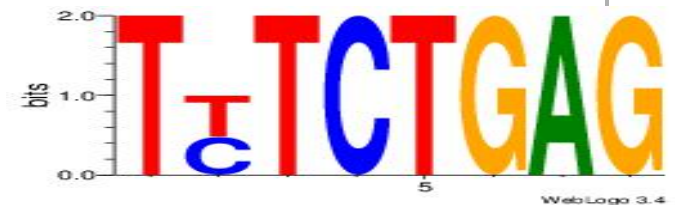
Original motif

Consensus sequence: CTCAGARA



Reverse complement motif

Consensus sequence: TKTCTGAG



Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID:	UP00173
Motif name:	Hoxc13
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

Alignment:

HHDBCTCRTAAAWHD

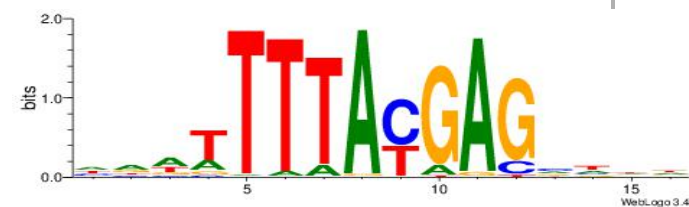
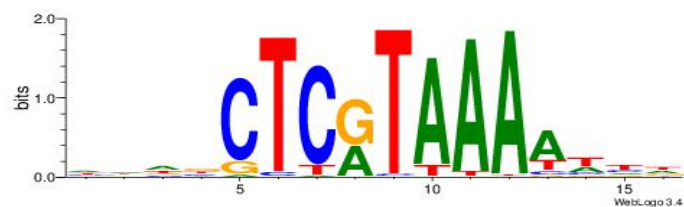
-----CTCAGARA-----

Original motif

Consensus sequence: HHDBCTCRTAAAWHD

Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH

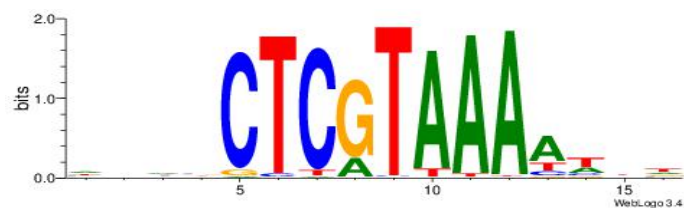


Motif ID: [UP00183](#)
 Motif name: Hoxa13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00055063

Alignment:
 HDHBCTCGTAAAWBD
 ----CTCAGARA----

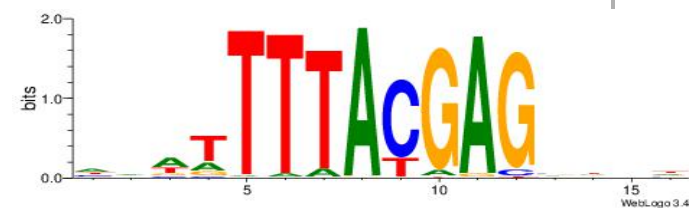
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTTACGAGBHDH



Motif ID: [UP00006](#)

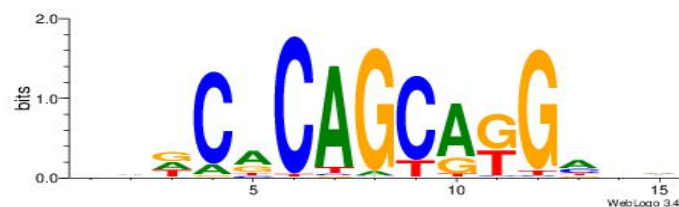
Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0111384

Alignment:

DVHCYTGCTGTGHDH
 ----TKTCTGAG----

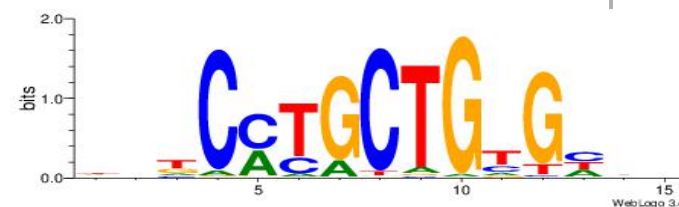
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP000000](#)
 Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8

Similarity score: 0.0116539

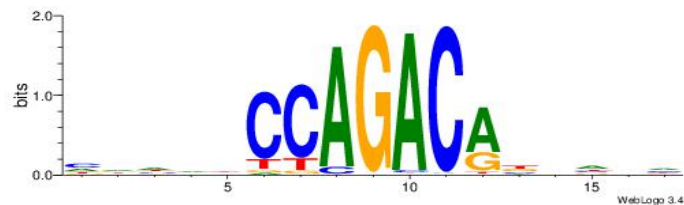
Alignment:

HVHBVTGTCTGGDDHDD

-----TKTCTGAG-----

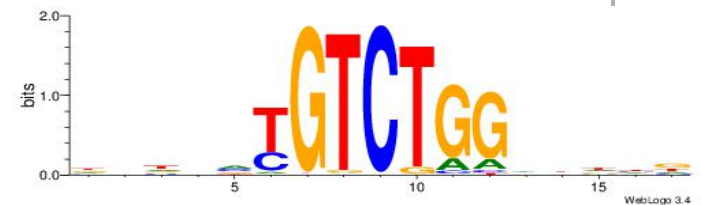
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0135011

Alignment:

DVBCYTGCTGBGDDD

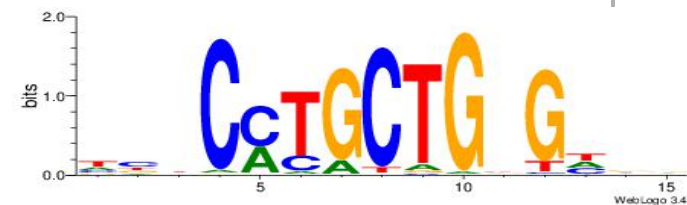
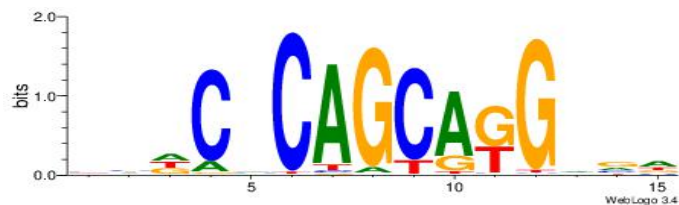
-----TKTCTGAG---

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Dataset #: 1 Motif ID: 42 Motif name: Motif 42

Original motif

Consensus sequence: CCYAGAAC



Reverse complement motif

Consensus sequence: GTTCTKGG



Best Matches for Motif ID 42 (Highest to Lowest)

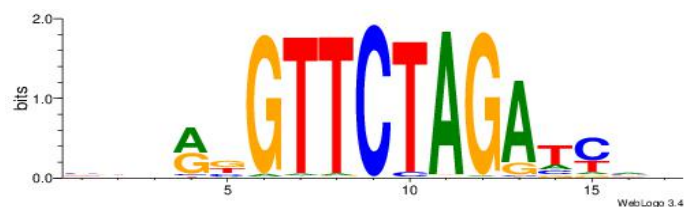
Motif ID:	UP00019
Motif name:	Zbtb12_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

BBGATCTAGAACBKHDB
-----CCYAGAAC-----

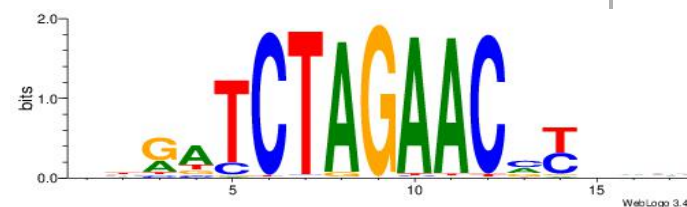
Original motif

Consensus sequence: BDHRBGTTCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



Motif ID:	UP00019
Motif name:	Zbtb12_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:	0.0290375

Alignment:

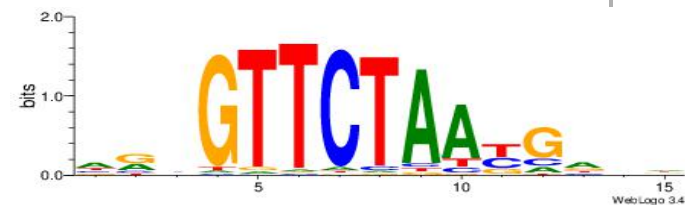
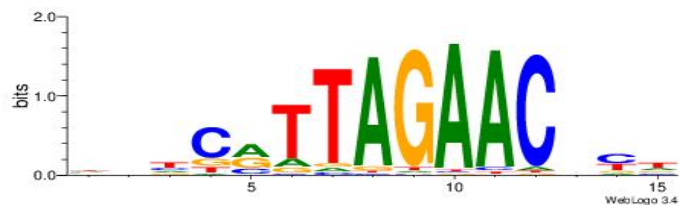
HVHCRTTAGAACBYD
-----CCYAGAAC----

Original motif

Consensus sequence: HVHCRTTAGAACBYD

Reverse complement motif

Consensus sequence: DKBGTTCTAAKGHBH

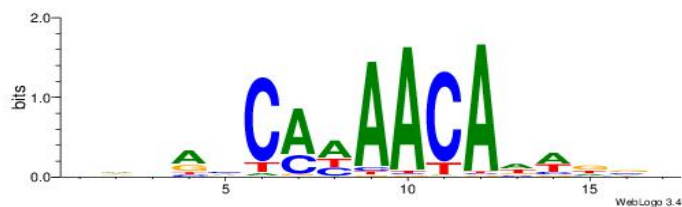


Motif ID: [UP00039](#)
 Motif name: Foxj3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0420446

Alignment:
 DVHWDTGTTWTGDTBDH
 -----GTTCTKGG---

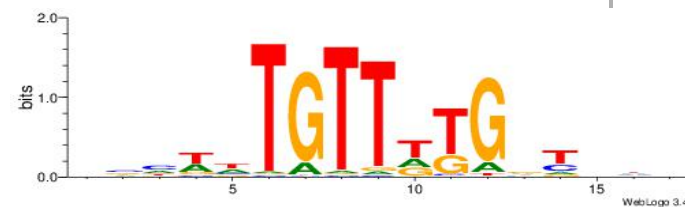
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



Motif ID: [UP00000](#)

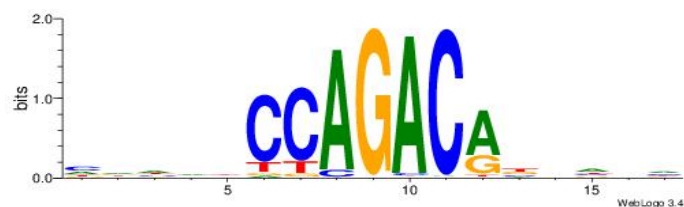
Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0435243

Alignment:

HVHBVTGTCTGGDDHDD
 -----GTTCTKGG-----

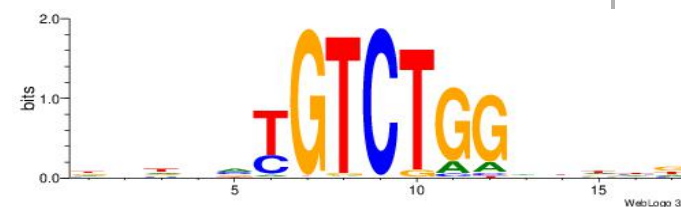
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID: [UP00413](#)
 Motif name: Elf4
 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: 0.0440977

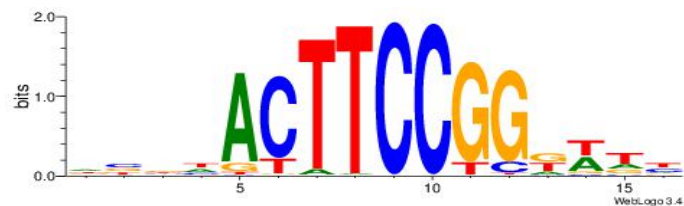
Alignment:

DBBHACTTCCGGKWTH

-----GTTCTKGG---

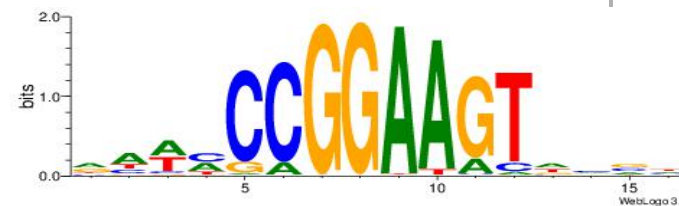
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

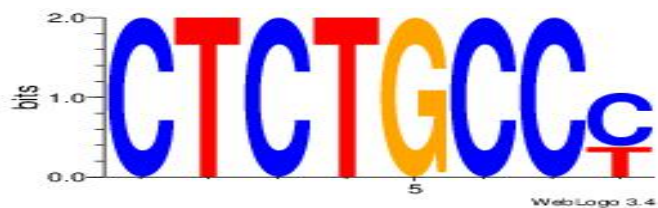
Consensus sequence: HAWYCCGGAAGTHBBD



Dataset #: 1 Motif ID: 43 Motif name: Motif 43

Original motif

Consensus sequence: CTCTGCCY



Reverse complement motif

Consensus sequence: KGGCAGAG



Best Matches for Motif ID 43 (Highest to Lowest)

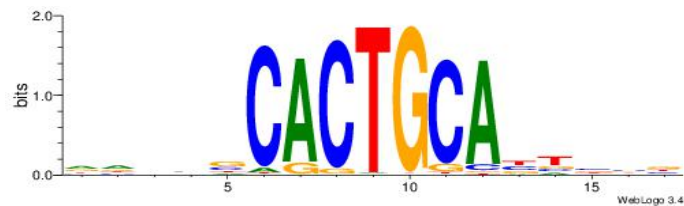
Motif ID: [UP00031](#)
Motif name: Zbtb3_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.00233137

Alignment:
DDBBBCACTGCABTBBB
-----CTCTGCCY-----

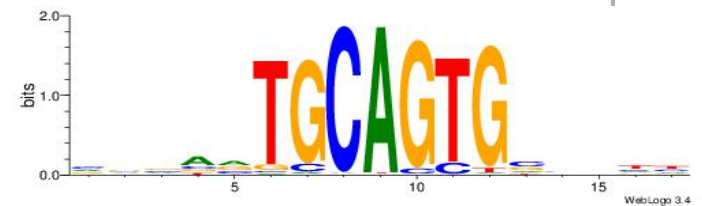
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00035](#)
Motif name: Hic1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.010233

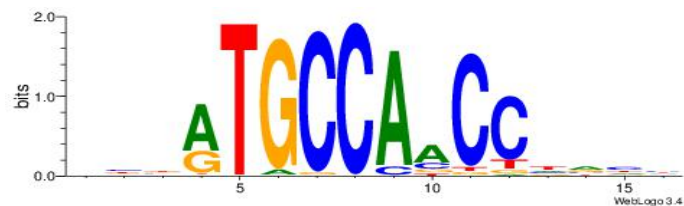
Alignment:

DDBHGGTTGGCATVBD

-----KGGCAGAG--

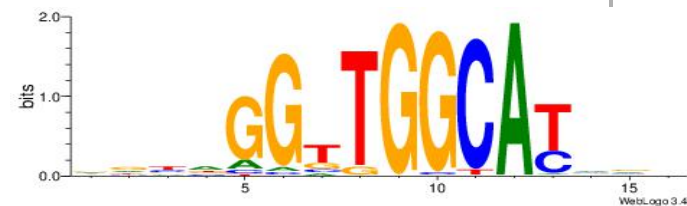
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0136504

Alignment:

DHHDGGGCGRGGKHBH

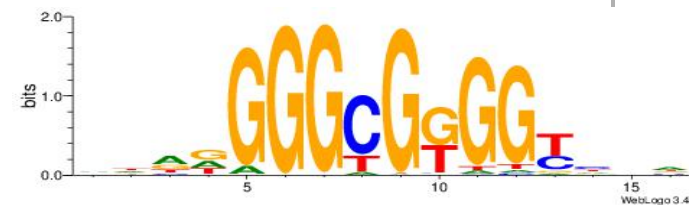
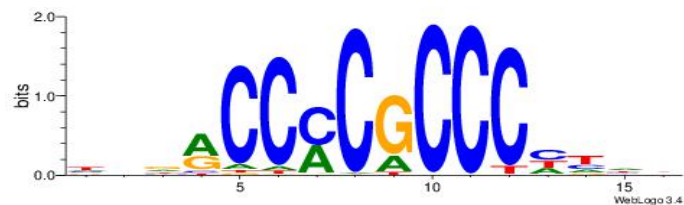
---KGGCAGAG-----

Original motif

Consensus sequence: HBDRCCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

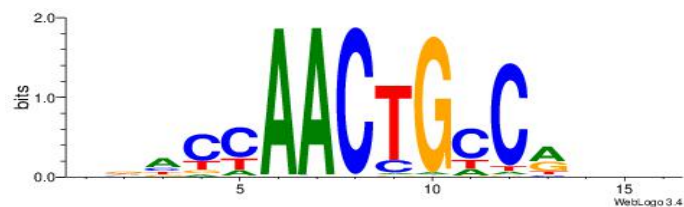


Motif ID: [UP00092](#)
 Motif name: Myb_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0179013

Alignment:
 DBVKGGCAGTTGGTHB
 ---KGGCAGAG-----

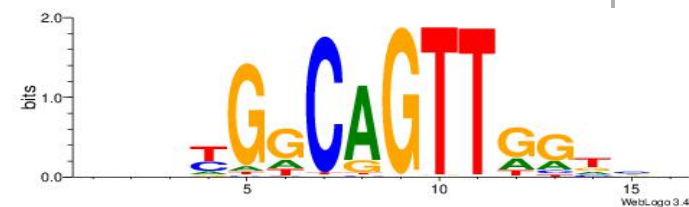
Original motif

Consensus sequence: BDACCAACTGCCRBH



Reverse complement motif

Consensus sequence: DBVKGGCAGTTGGTHB



Motif ID: [UP00035](#)

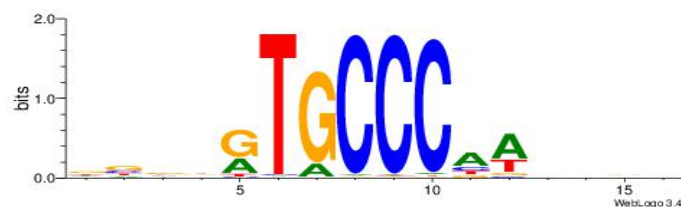
Motif name: Hic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0198349

Alignment:

VHHDWTGGGCAMDHBH
 -----KGGCAGAG--

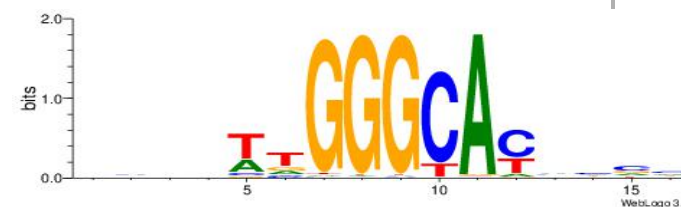
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Dataset #: 1 Motif ID: 44 Motif name: Motif 44

Original motif

Consensus sequence: AGAAATG

Reverse complement motif

Consensus sequence: CATTTCT



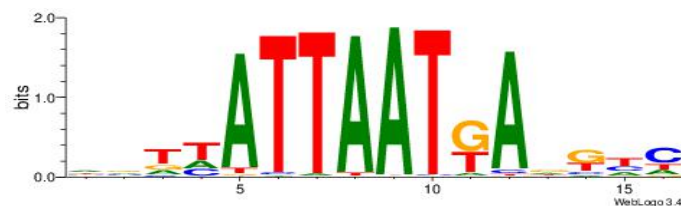
Best Matches for Motif ID 44 (Highest to Lowest)

Motif ID: [UP00118](#)
 Motif name: Pou4f3
 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: 7
 Similarity score: 0

Alignment:
 HVTTATTAATKADKHC
 ----AGAAATG-----

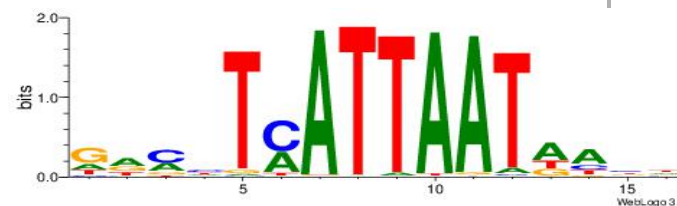
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



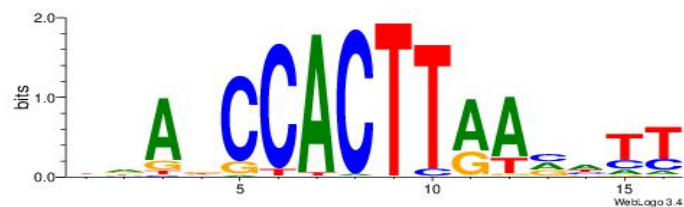
Motif ID: [UP00147](#)
 Motif name: Nkx2-6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0027402

Alignment:

AAHVTTAAGTGGHTDD
 ----AGAAATG-----

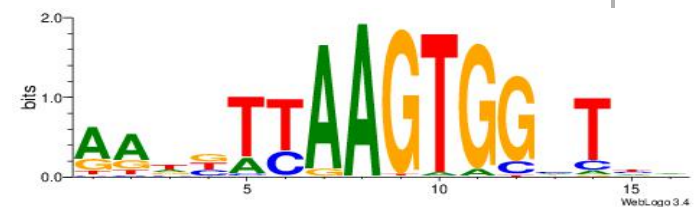
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



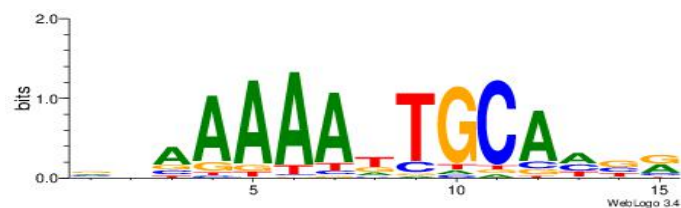
Motif ID: [UP00044](#)
 Motif name: Mafk_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

Number of overlap: 7
Similarity score: 0.00356175

Alignment:
MBHTGCADTTTTTHV
-----CATTCTCT---

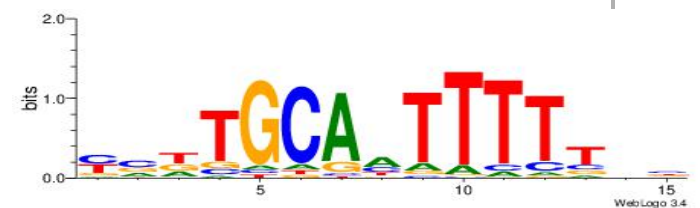
Original motif

Consensus sequence: VHAAAAADTGCAHBR



Reverse complement motif

Consensus sequence: MBHTGCADTTTTTHV



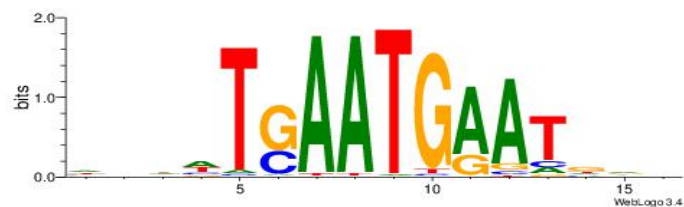
Motif ID: [UP00055](#)
Motif name: Hbp1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 7
Similarity score: 0.00569123

Alignment:
HHDWTSAAATGAATDDB
---AGAAATG-----

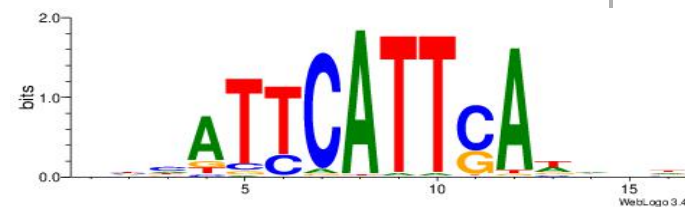
Original motif

Reverse complement motif

Consensus sequence: HHDWTSAAATGAATDDB



Consensus sequence: VDHATTCATTSAWDDH



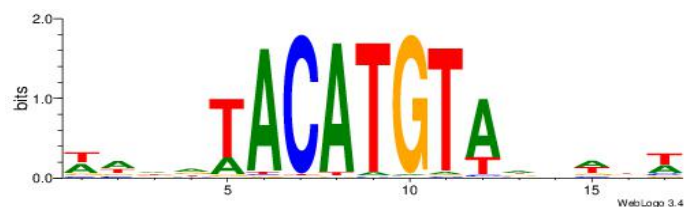
Motif ID: [UP00236](#)
Motif name: Irx2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 7
Similarity score: 0.00626845

Alignment:

WDDDTACATGTADDWBW
---AGAAATG-----

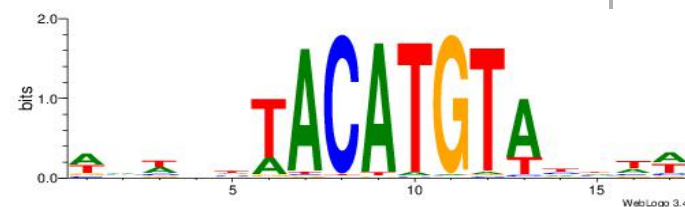
Original motif

Consensus sequence: WDDDTACATGTADDWBW



Reverse complement motif

Consensus sequence: WVWDDTACATGTADDDW



Dataset #: 1 **Motif ID: 45** **Motif name: Motif 45**

Original motif

Consensus sequence: ATTATTAW



Reverse complement motif

Consensus sequence: WTAATAAT



Best Matches for Motif ID 45 (Highest to Lowest)

Motif ID:	UP00016
Motif name:	Sry_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:	0.00260392

Alignment:

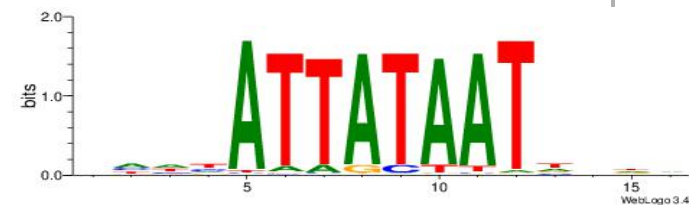
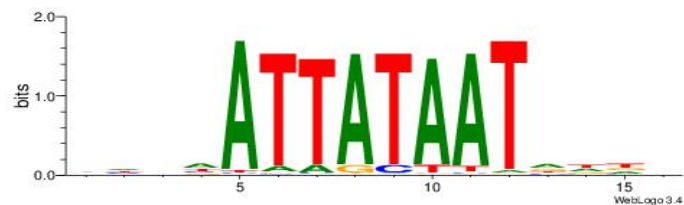
```
VDDDATTATAATHDHV
----ATTATTAW----
```

Original motif

Consensus sequence: BHDHATTATAATDDDV

Reverse complement motif

Consensus sequence: VDDDATTATAATHDHV

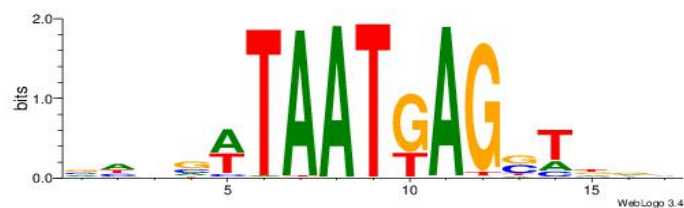


Motif ID: [UP00146](#)
 Motif name: Pou6f1_1731.2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00439717

Alignment:
 DHDASCTCATTAWVVHV
 -----ATTATTAW-----

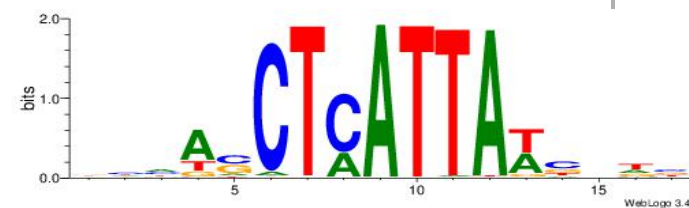
Original motif

Consensus sequence: VHVVWTAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTAWVVHV



Motif ID: [UP00118](#)

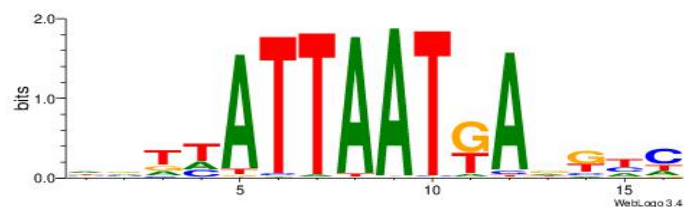
Motif name: Pou4f3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00941819

Alignment:

HVTTATTAATKADKHC
 --WTAATAAT-----

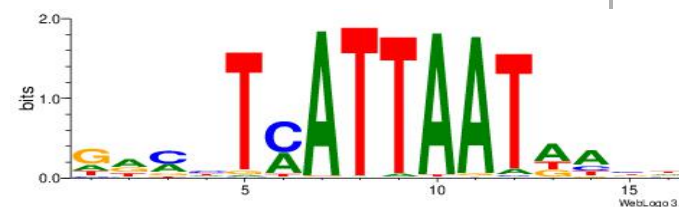
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



Motif ID: [UP00146](#)
 Motif name: Pou6f1_3733.1
 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: 0.0131321

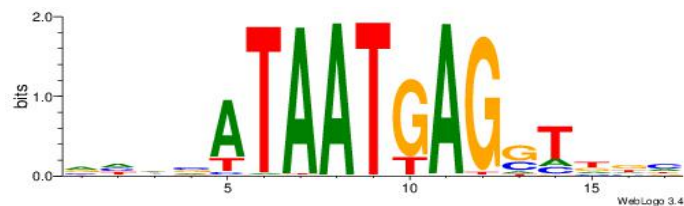
Alignment:

DHDASCTCATTATVHHB

-----ATTATTAW-----

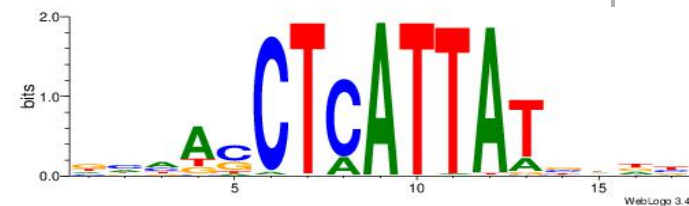
Original motif

Consensus sequence: VHHVATAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTATVHHB



Motif ID: [UP00200](#)

Motif name: Nkx6-1_2825.1

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 3

Number of overlap: 8

Similarity score: 0.015553

Alignment:

CBVMRTAATTAATTHBH

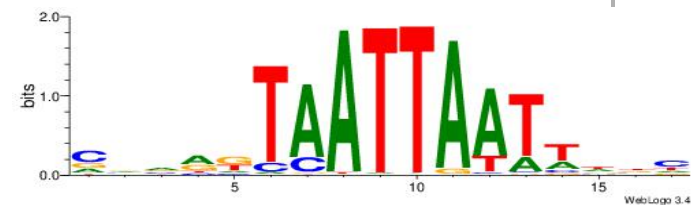
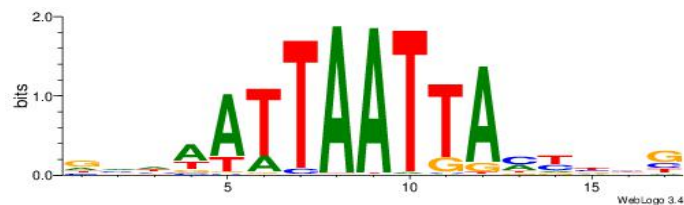
-----ATTATTAW--

Original motif

Consensus sequence: DVHAATTAATTAMYBBG

Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



Dataset #: 1 Motif ID: 46 Motif name: Motif 46

Original motif

Consensus sequence: GGAAASA



Reverse complement motif

Consensus sequence: TTTTCC



Best Matches for Motif ID 46 (Highest to Lowest)

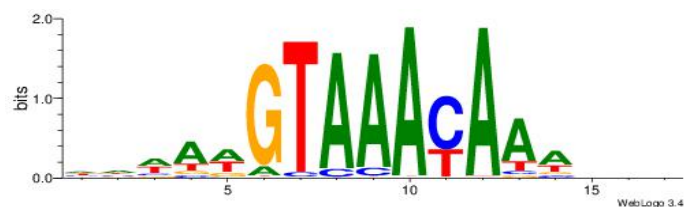
Motif ID:	UP00073
Motif name:	Foxa2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	7
Similarity score:	0

Alignment:

BDVTTTKTTTACWTWHH
-----TSTTTCC-----

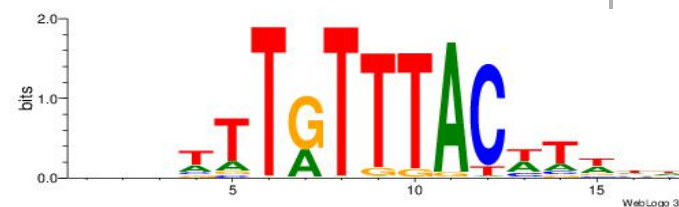
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID:	UP00025
Motif name:	Foxk1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	7
Similarity score:	0.00624148

Alignment:

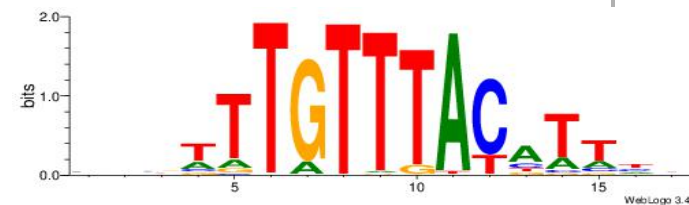
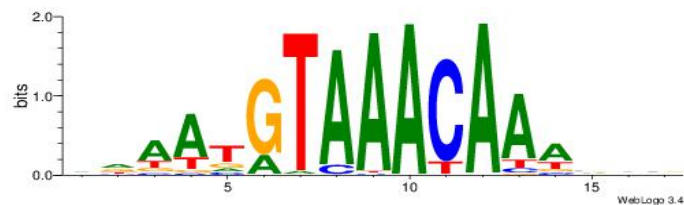
BBVTTTGTTTACATTDD
-----TSTTTCC-----

Original motif

Consensus sequence: DDAATGTAAACAAVVB

Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



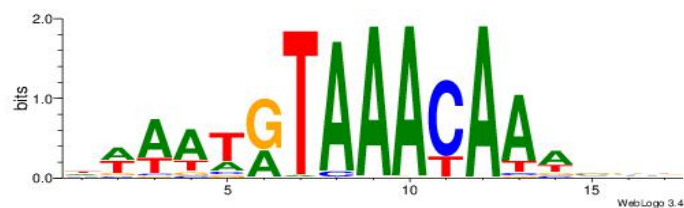
Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00652531

Alignment:

VVVWTTGTTTAMATTWD
 -----TSTTTCC-----

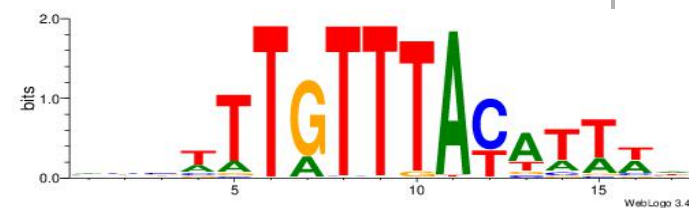
Original motif

Consensus sequence: DWAATRTAAACA WVV B



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



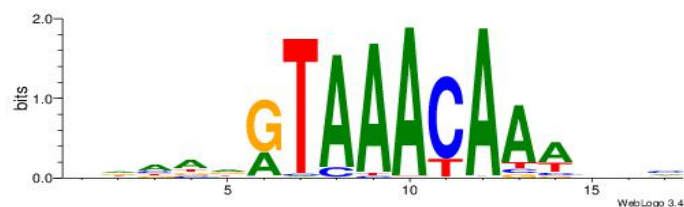
Motif ID: [UP00039](#)

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: 6
 Number of overlap: 7
 Similarity score: 0.00845848

Alignment:
 DVVTTTGTTTACDTHDH
 -----TSTTTCC-----

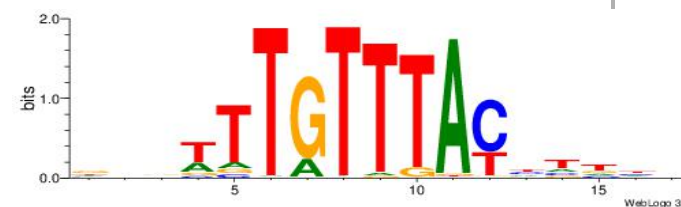
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00424](#)
 Motif name: Gm4881
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 7

Similarity score: 0.0113154

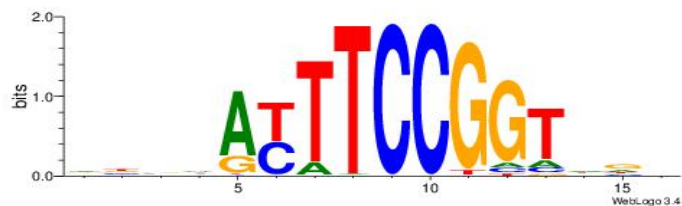
Alignment:

DHDACCGGAAMTHBVB

-----GGAAASA---

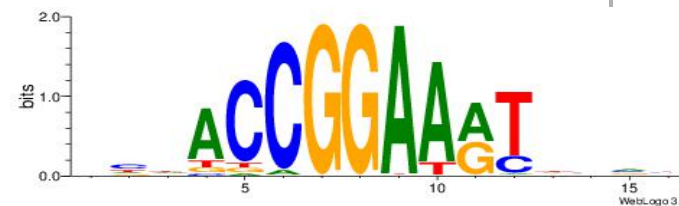
Original motif

Consensus sequence: VBBHAYTTCCGGTDDD



Reverse complement motif

Consensus sequence: DHDACCGGAAMTHBVB



Dataset #: 1 Motif ID: 47 Motif name: Motif 47

Original motif

Consensus sequence: KGCTGCTG



Reverse complement motif

Consensus sequence: CAGCAGCR



Best Matches for Motif ID 47 (Highest to Lowest)

Motif ID: [UP00027](#)
Motif name: Osr1_primary
Species: Mus musculus
Matching format of first motif: Original Motif

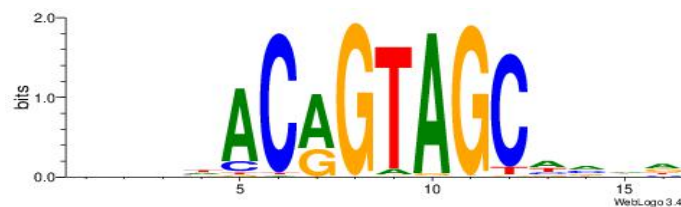
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:

```
DHBHGCTACKGTHDHH
---KGCTGCTG-----
```

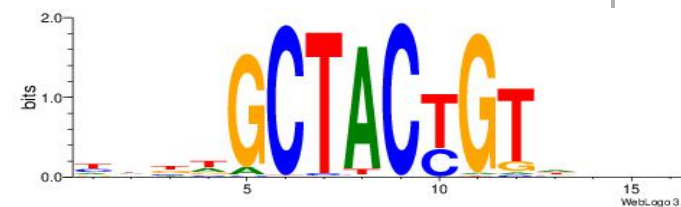
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



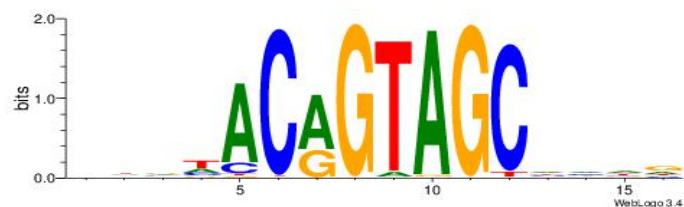
Motif ID:	UP00052
Motif name:	Osr2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.00109484

Alignment:

HHHHGCTACKGTHVHH
 ---KGCTGCTG-----

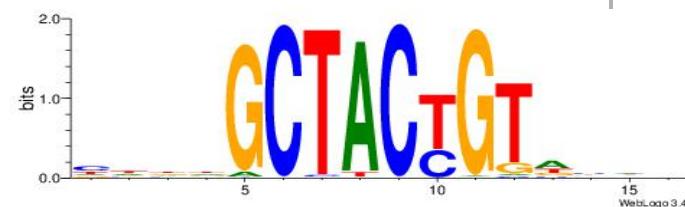
Original motif

Consensus sequence: HHVHACRGTAGCHHHD



Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH



Motif ID:	UP00102
Motif name:	Zic1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0101682

Alignment:

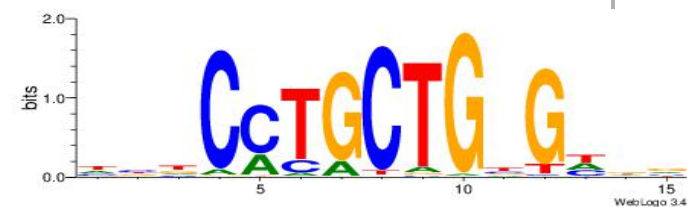
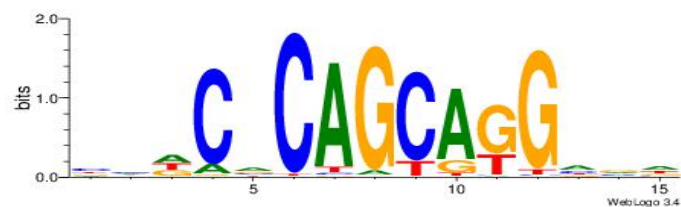
DVHCCTGCTGBGDDB
 --KGCTGCTG-----

Original motif

Consensus sequence: BHDCVCAGCAGGHVD

Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDB

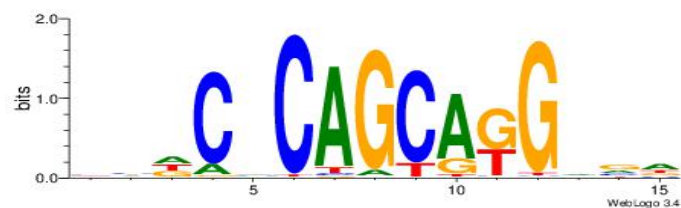


Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0142996

Alignment:
 HHDCVCAGCAKGVVD
 -----CAGCAGCR--

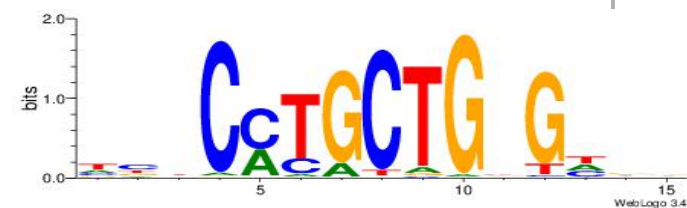
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00006](#)

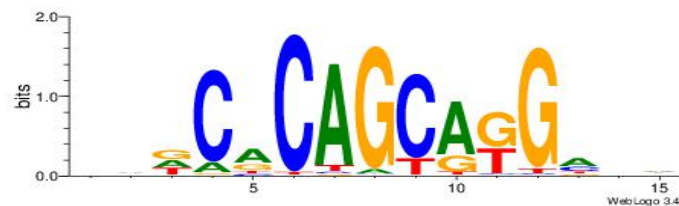
Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.01699

Alignment:

DDDCACAGCAKGHVD
 -----CAGCAGCR--

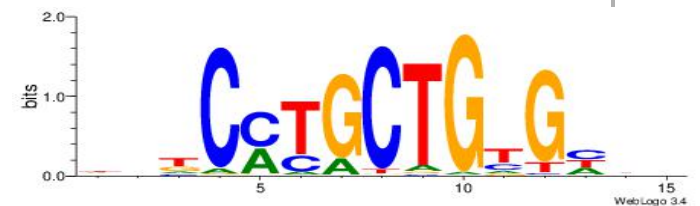
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCTGTCTGCTGHDH



Dataset #: 1 Motif ID: 48 Motif name: Motif 48

Original motif

Consensus sequence: ACACWG

Reverse complement motif

Consensus sequence: CWGTGT



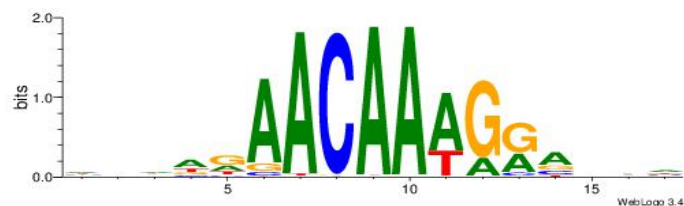
Best Matches for Motif ID 48 (Highest to Lowest)

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: 6
 Number of overlap: 6
 Similarity score: 0

Alignment:
 HBDDRAACAAAGRABHH
 -----ACACWG-----

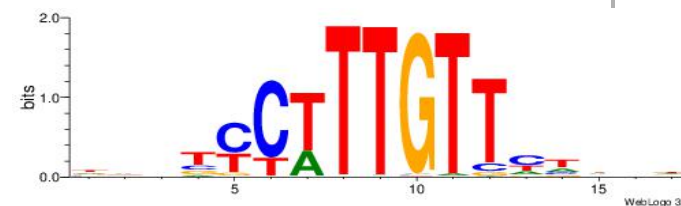
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



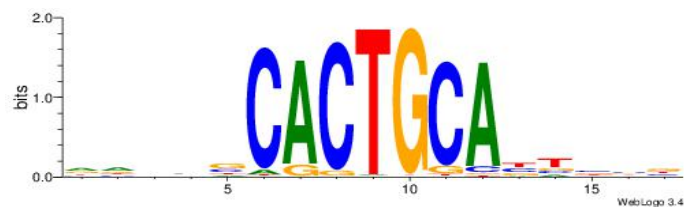
Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.000107057

Alignment:

BBBAVTGCAGTGBBVDD
 -----CWGTGT-----

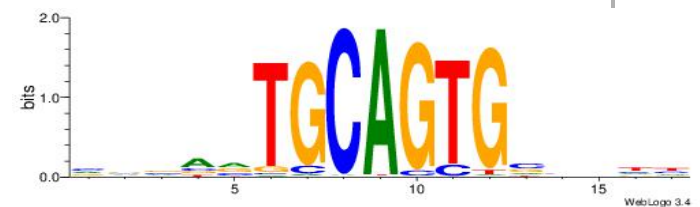
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

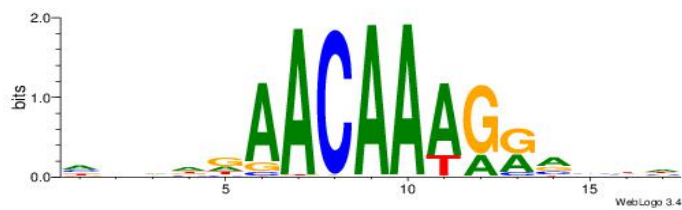


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6

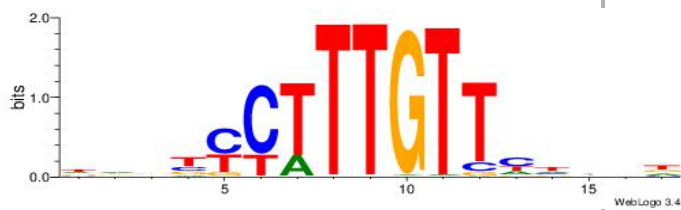
Number of overlap: 6
Similarity score: 0.00451967

Alignment:
HBDDDAACAAAGRVBHH
-----ACACWG-----

Original motif
Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif
Consensus sequence: HHBBMCTTTGTTHDDBH



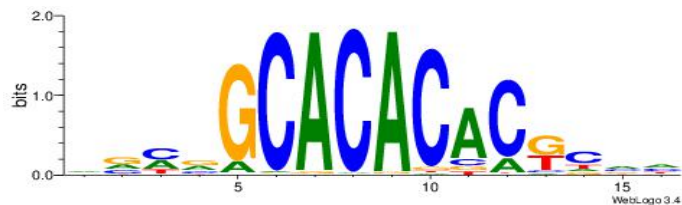
Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.00474978

Alignment:
DVMVGCACACACKCVH
-----ACACWG-----

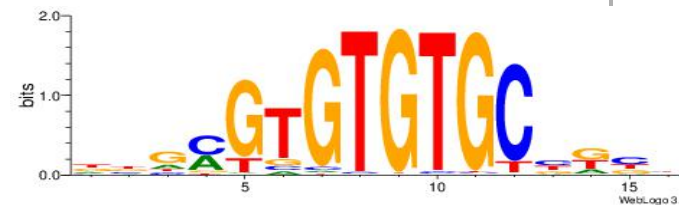
Original motif

Reverse complement motif

Consensus sequence: DVMVGCACACACKCVH



Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00095](#)
Motif name: Zfp691_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 6
Similarity score: 0.0121829

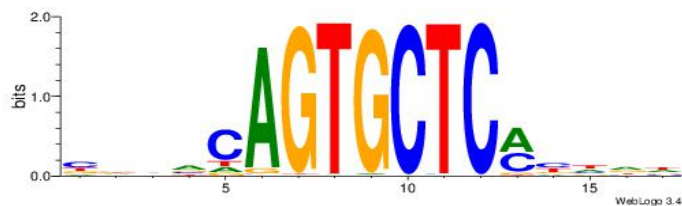
Alignment:

DDHBYGAGCACTGBHHB

-----ACACWG-----

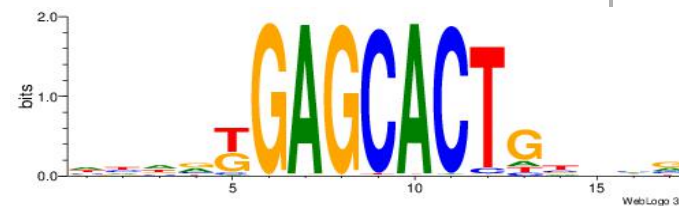
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHHB



Dataset #: 1 **Motif ID: 49** **Motif name: Motif 49**

Original motif

Consensus sequence: AGATAAAR



Reverse complement motif

Consensus sequence: KTTTATCT



Best Matches for Motif ID 49 (Highest to Lowest)

Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

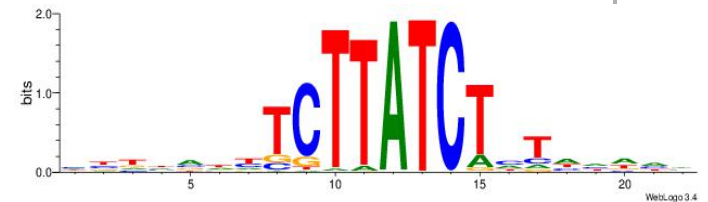
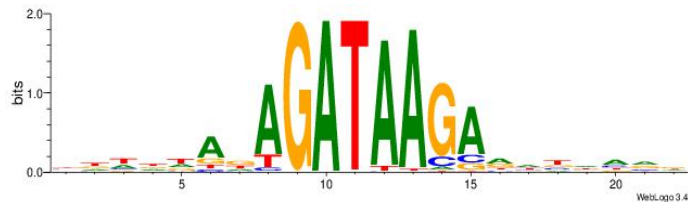
```
BDHDDADAGATAAGADHBDHVD
-----AGATAAAR-----
```

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV

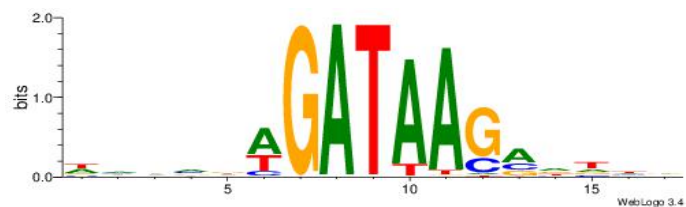


Motif ID: [UP00100](#)
 Motif name: Gata6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00785656

Alignment:
 DHDVDWGATAAGADDHV
 -----AGATAAAR-----

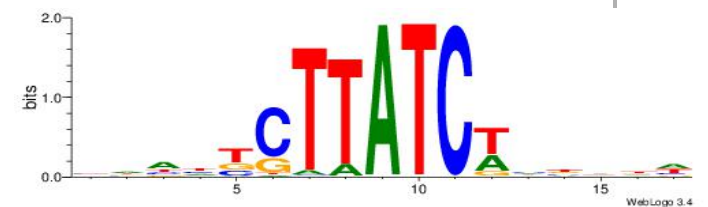
Original motif

Consensus sequence: DHDVDWGATAAGADDHV



Reverse complement motif

Consensus sequence: VHDDTCTTATCWHBDHD



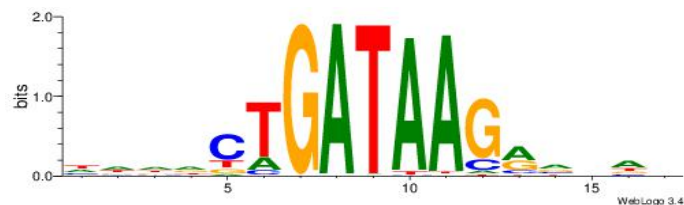
Motif ID: [UP00080](#)

Motif name: Gata5_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0123861

Alignment:
 HDDDCTGATAAGRVD
 -----AGATAAAR-----

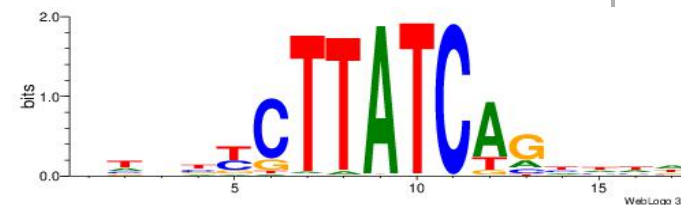
Original motif

Consensus sequence: HDDDCTGATAAGRVD



Reverse complement motif

Consensus sequence: DDHBKCTTATCAGDDDH



Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8

Similarity score: 0.0188096

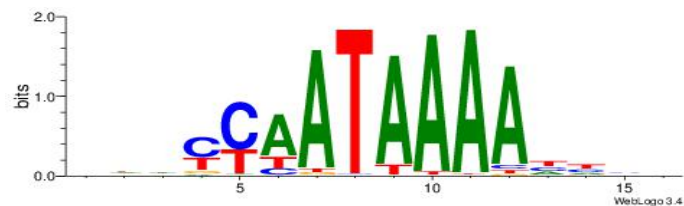
Alignment:

HDHHTTTTATTKKHDD

----KTTTATCT----

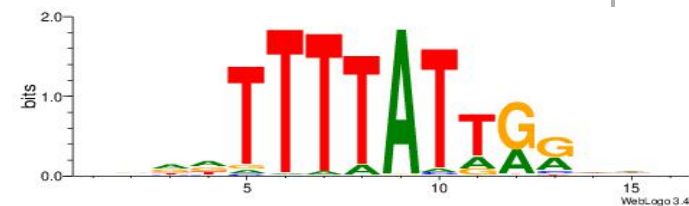
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00121](#)

Motif name: Hoxd10

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 5

Number of overlap: 8

Similarity score: 0.0206207

Alignment:

HDDDATTTTATTKVRDB

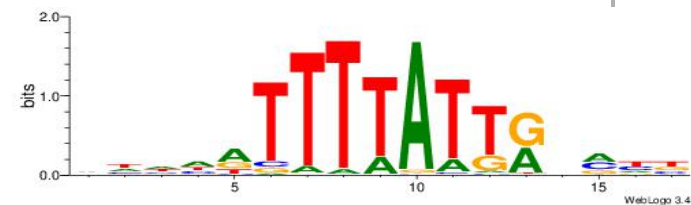
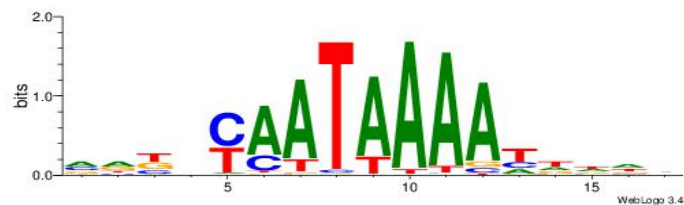
-----KTTTATCT----

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Dataset #: 1 Motif ID: 50 Motif name: Motif 50

Original motif

Consensus sequence: GAAGAGCA



Reverse complement motif

Consensus sequence: TGCTCTTC



Best Matches for Motif ID 50 (Highest to Lowest)

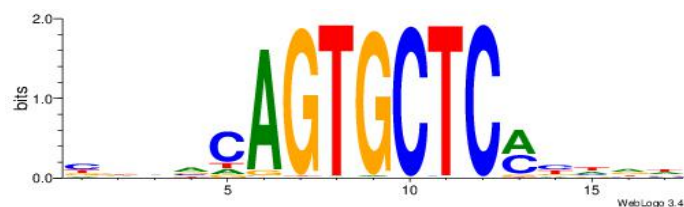
Motif ID:	UP00095
Motif name:	Zfp691_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0

Alignment:

BDHVCAGTGCTCMBHDD
-----TGCTCTTC--

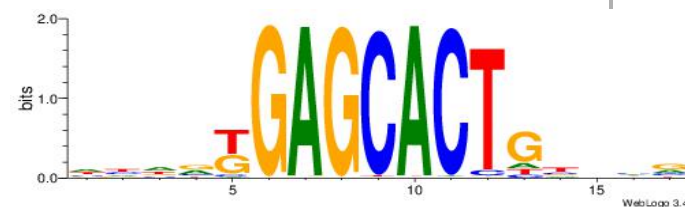
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHHB



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:	2
Number of overlap:	8
Similarity score:	0.00640383

Alignment:

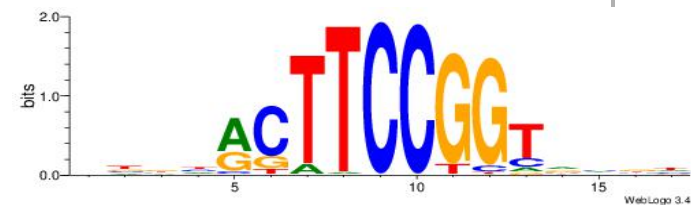
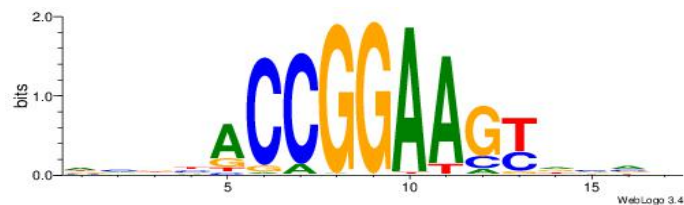
DVBBACCGGAAGYDVVV
-----GAAGAGCA--

Original motif

Consensus sequence: DVBBACCGGAAGYDVVV

Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD

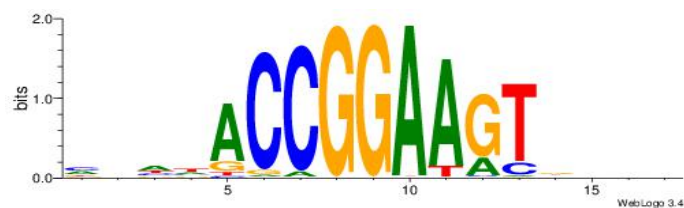


Motif ID: [UP00013](#)
 Motif name: Gabpa_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.0102626

Alignment:
 HVHHACCGGAAGTDHHV
 -----GAAGAGCA-

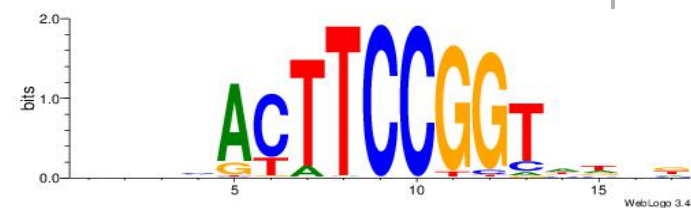
Original motif

Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif

Consensus sequence: BHHHACTTCCGGTHHBD



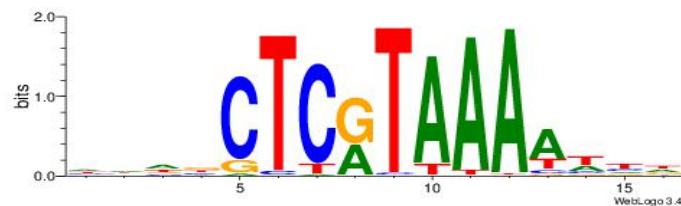
Motif ID: [UP00173](#)

Motif name: Hoxc13
 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: 0.0113649

Alignment:
 DHWTTTAMGAGBDHH
 -----GAAGAGCA--

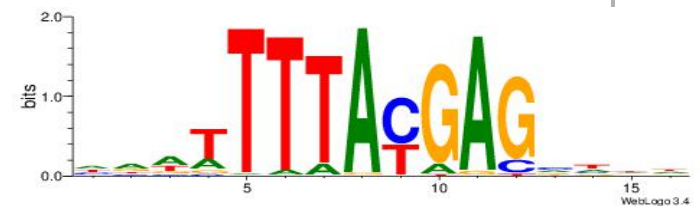
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH



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: 8

Similarity score: 0.0117359

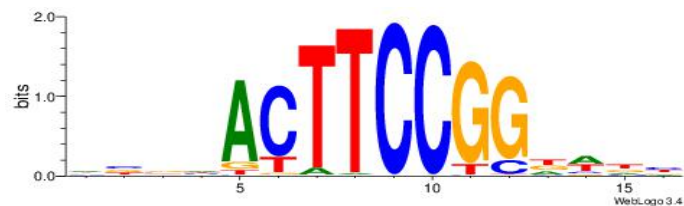
Alignment:

DBBHACTTCCGGDWDB

-TGCTCTTC-----

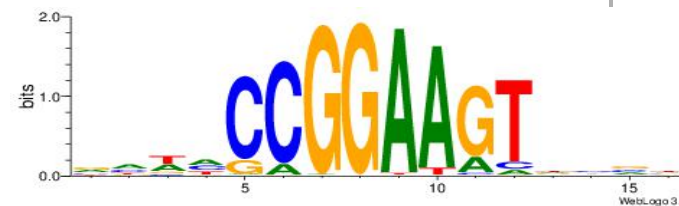
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Dataset #: 1 Motif ID: 51 Motif name: Motif 51

Original motif

Consensus sequence: AGAGCWGG



Reverse complement motif

Consensus sequence: CCWGCTCT



Best Matches for Motif ID 51 (Highest to Lowest)

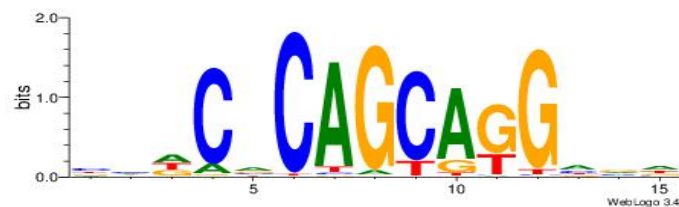
Motif ID: [UP00102](#)
Motif name: Zic1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:
BHDCVCAGCAGGHVD
-----AGAGCWGG----

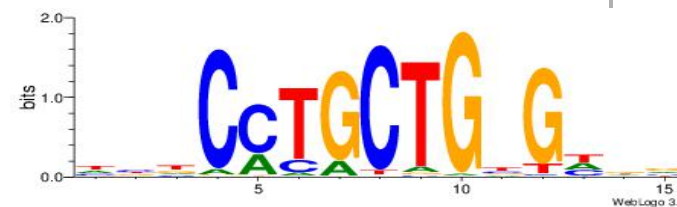
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



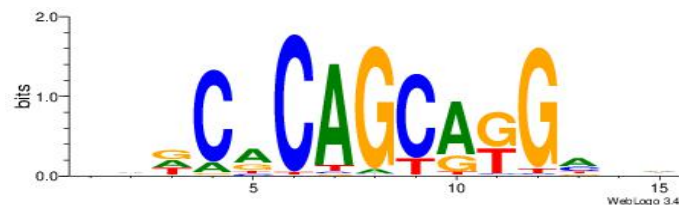
Motif ID:	UP00006
Motif name:	Zic3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.000488488

Alignment:

DDDCACAGCAKGHVD
-----AGAGCWGG----

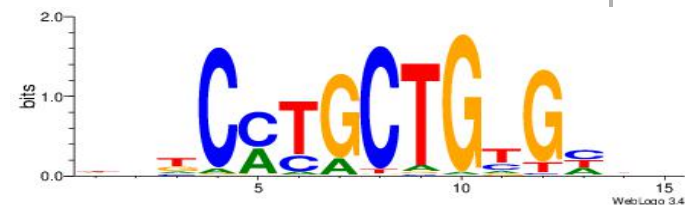
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.00566514

Alignment:

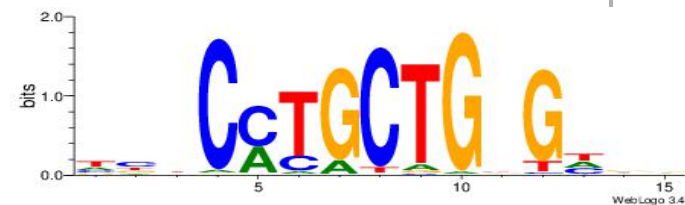
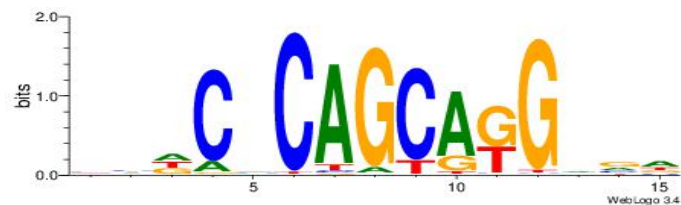
HHDCVCAGCAKGVVD
-----AGAGCWGG----

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD

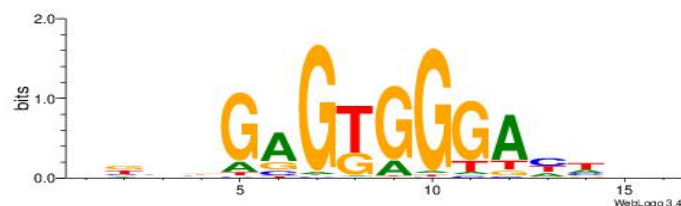


Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0121797

Alignment:
 BHHDTCCTACTCBDBV
 -----CCWGCTCT---

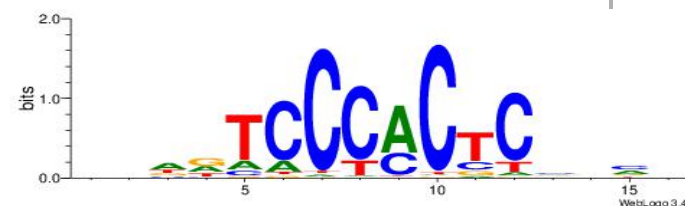
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTACTCBDBV

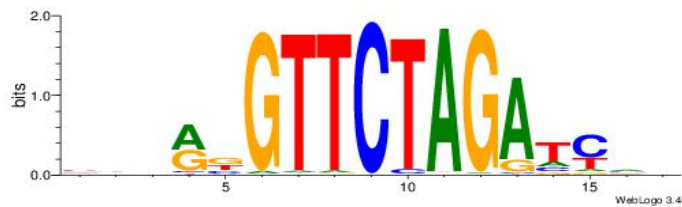


Motif ID: [UP00019](#)

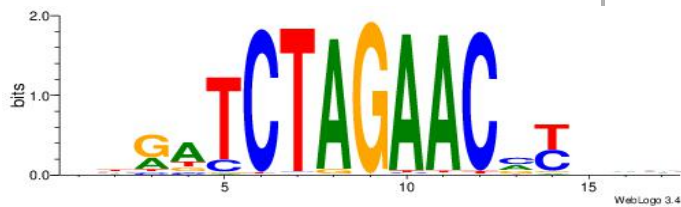
Motif name: Zbtb12_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0132554

Alignment:
BBGATCTAGAACBKHDB
-----AGAGCWGG--

Original motif
Consensus sequence: BDHRBGTCTAGATCVB



Reverse complement motif
Consensus sequence: BBGATCTAGAACBKHDB



Dataset #: 2 Motif ID: 52 Motif name: Motif 52

Original motif
Consensus sequence: AGVCAGG

Reverse complement motif
Consensus sequence: CCTGVCT



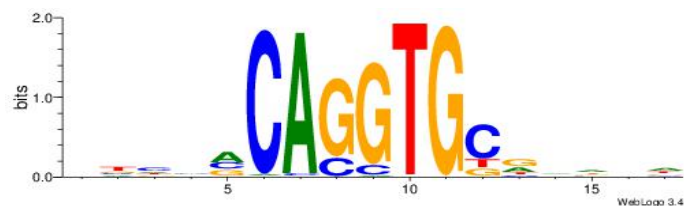
Best Matches for Motif ID 52 (Highest to Lowest)

Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 7
 Similarity score: 0

Alignment:
 VBHHVCAGGTGCDVDHD
 --AGVCAGG-----

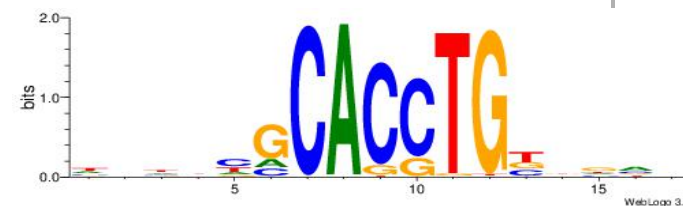
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



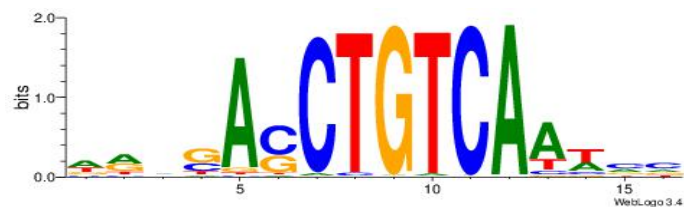
Motif ID: [UP00203](#)
 Motif name: Pknox1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00125989

Alignment:

VVWTTGACAGSTSBKD
 ----AGVCAGG-----

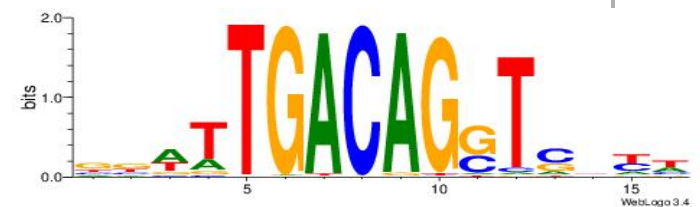
Original motif

Consensus sequence: DRVSASCTGTCAAWVV



Reverse complement motif

Consensus sequence: VVWTTGACAGSTSBKD



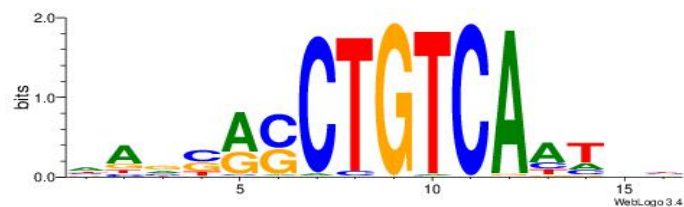
Motif ID: [UP00205](#)
 Motif name: Pknox2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

Number of overlap: 7
Similarity score: 0.00252122

Alignment:
VHATTGACAGSKSVTH
-----AGVCAGG-----

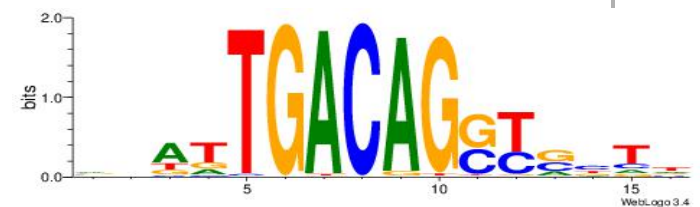
Original motif

Consensus sequence: HAVSRCTGTCAATHB



Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH



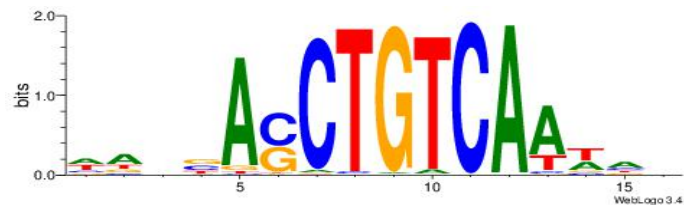
Motif ID: [UP00226](#)
Motif name: Mrg1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 7
Similarity score: 0.00269319

Alignment:
BHWTTGACAGSTBBTW
-----AGVCAGG-----

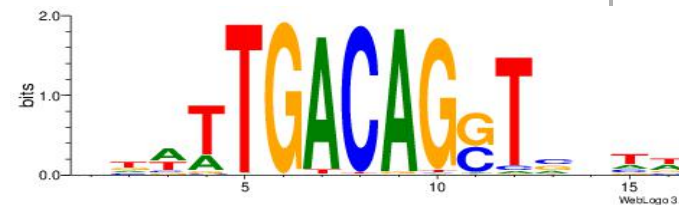
Original motif

Reverse complement motif

Consensus sequence: WAVBASCTGTCAAWHB



Consensus sequence: BHWTTGACAGSTBBTW



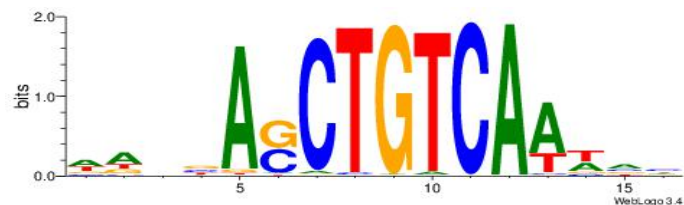
Motif ID: [UP00186](#)
Motif name: Meis1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 7
Similarity score: 0.00619435

Alignment:

DBWTTGACAGSTBVTW
-----AGVCAGG-----

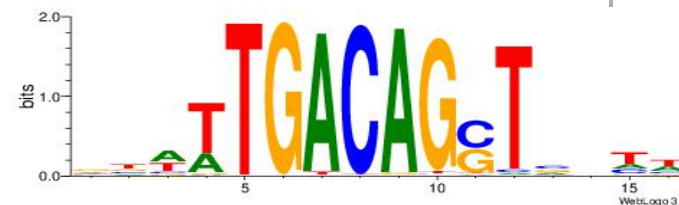
Original motif

Consensus sequence: WAVBASCTGTCAAWVH



Reverse complement motif

Consensus sequence: DBWTTGACAGSTBVTW



Dataset #: 2 **Motif ID: 53** **Motif name: Motif 53**

Original motif

Consensus sequence: TSTGTR



Reverse complement motif

Consensus sequence: MACASA



Best Matches for Motif ID 53 (Highest to Lowest)

Motif ID:	UP00026
Motif name:	Zscan4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	6
Similarity score:	0

Alignment:

BHHHTTGTGTGCKHVD

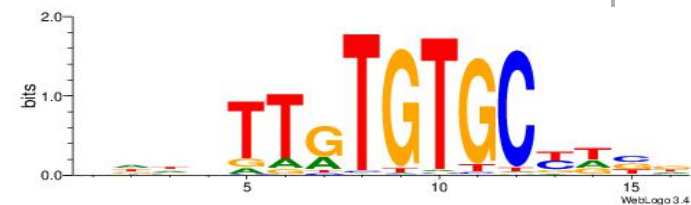
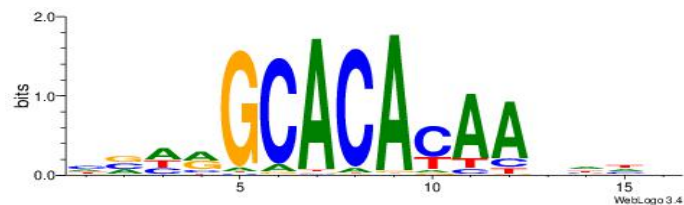
-----TSTGTR-----

Original motif

Consensus sequence: HVHRGCACACAAHHHV

Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD

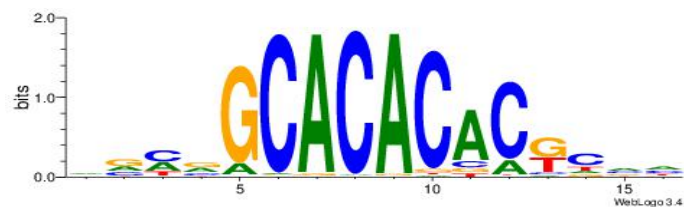


Motif ID: [UP00042](#)
 Motif name: Gm397_second
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00423357

Alignment:
 HBGYGTGTGTGCVRVD
 -----TSTGTR-----

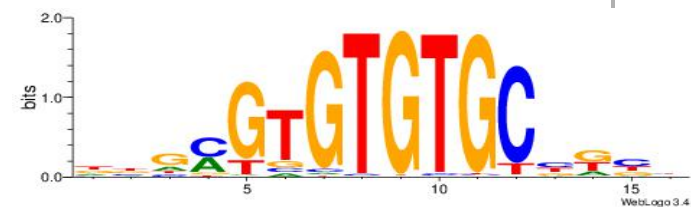
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



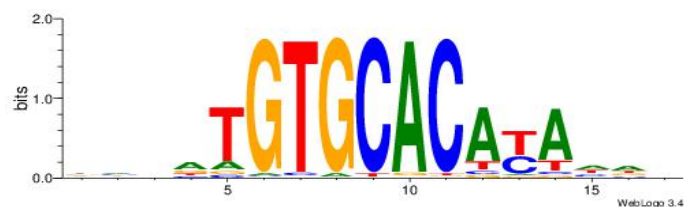
Motif ID: [UP00026](#)

Motif name: Zscan4_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: 6
 Similarity score: 0.00980483

Alignment:
 HDHTMTGTGCACADVHD
 ---TSTGTR-----

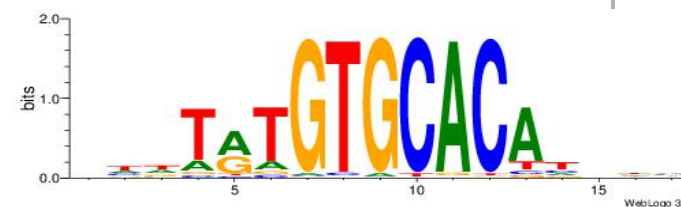
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



Motif ID: [UP00042](#)
 Motif name: Gm397_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 6

Similarity score: 0.0166332

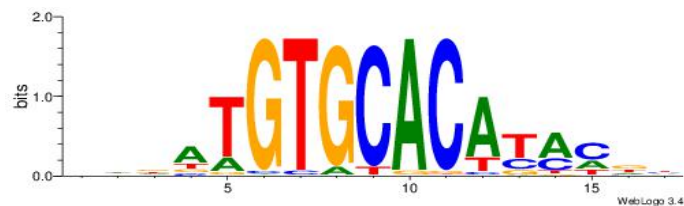
Alignment:

HHRTATGTGCACATHHD

---TSTGTR-----

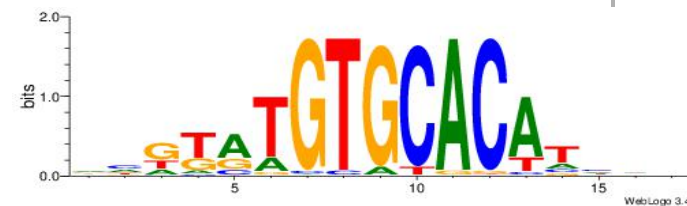
Original motif

Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif

Consensus sequence: HHRTATGTGCACATHHD



Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0213483

Alignment:

HDHRTAAACAAAHDDD

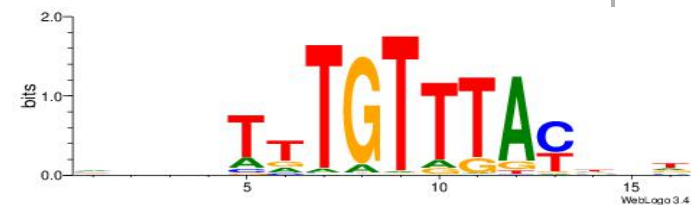
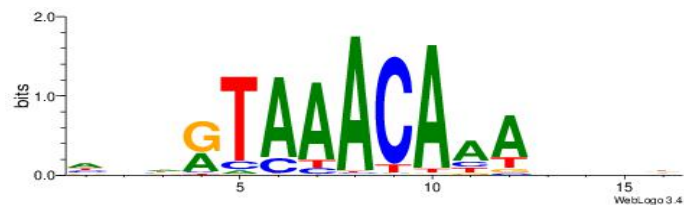
-----MACASA----

Original motif

Consensus sequence: HDHRTAAACAAAHDDD

Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDD



Dataset #: 2 Motif ID: 54 Motif name: Motif 54

Original motif

Consensus sequence: RGAAA



Reverse complement motif

Consensus sequence: TTTCK



Best Matches for Motif ID 54 (Highest to Lowest)

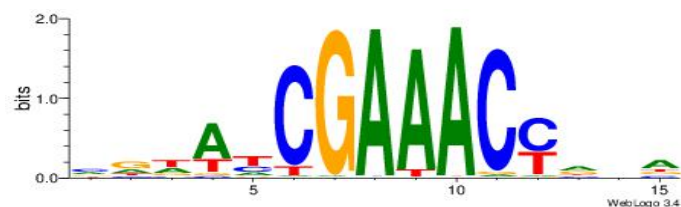
Motif ID:	UP00018
Motif name:	Irf4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	5
Similarity score:	0

Alignment:

TBDKGTTTCGMTDHSV
 -----TTTCK-----

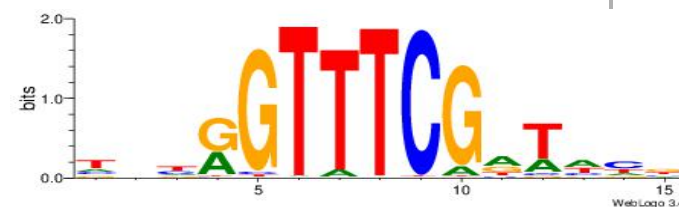
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

Consensus sequence: TBDKGTTTCGMTDHSV



Motif ID:	UP00074
Motif name:	Isgf3g_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	5
Similarity score:	0.00225908

Alignment:

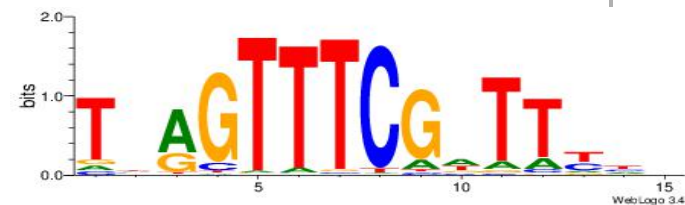
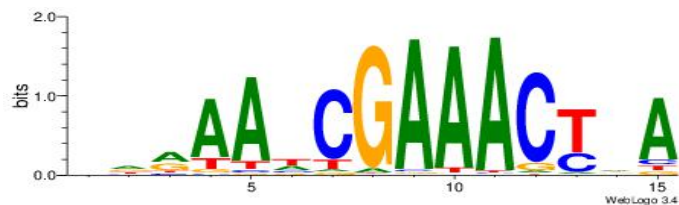
TDAGTTTCGWTTKDV
 -----TTTCK-----

Original motif

Consensus sequence: VDRAAWCGAAACTDA

Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV

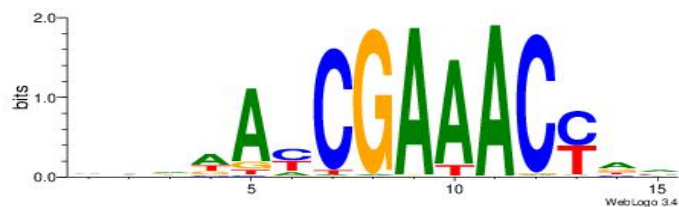


Motif ID: [UP00040](#)
 Motif name: Irf5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 5
 Similarity score: 0.00434877

Alignment:
 BDKGTTTCGKTWDDD
 ----TTTCK-----

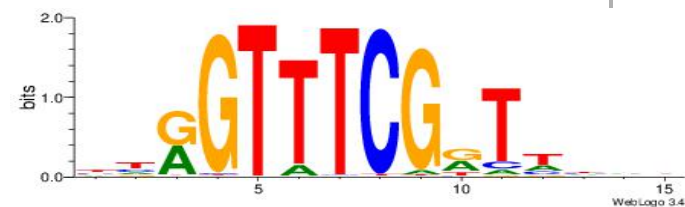
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD



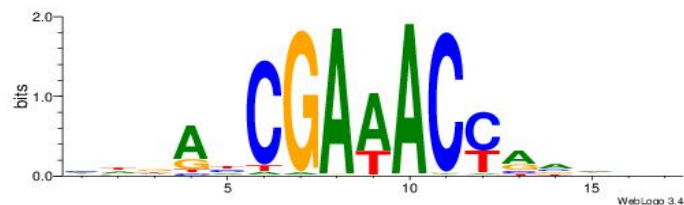
Motif ID: [UP00011](#)

Motif name: Irf6_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.0136873

Alignment:
 DHDBTKGTTTCGHTHDD
 -----TTTCK-----

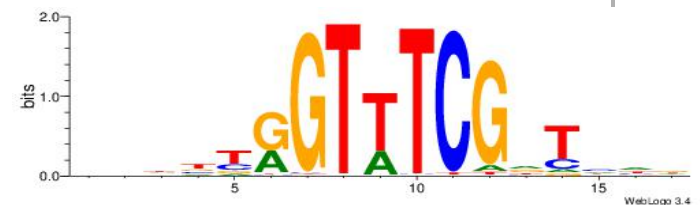
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Motif ID: [UP00043](#)
 Motif name: Bcl6b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 5

Similarity score: 0.0141224

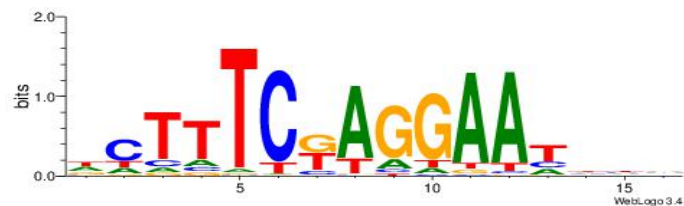
Alignment:

DCTTTCKAGGAATHHV

--TTTCK-----

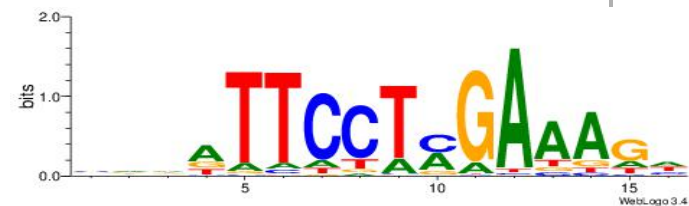
Original motif

Consensus sequence: DCTTTCKAGGAATHHV



Reverse complement motif

Consensus sequence: VHHATTCCTYGAAAGD



Dataset #: 2 **Motif ID: 55** **Motif name: Motif 55**

Original motif

Consensus sequence: TTTAAAA



Reverse complement motif

Consensus sequence: TTTTAAA



Best Matches for Motif ID 55 (Highest to Lowest)

Motif ID: [UP00173](#)
Motif name: Hoxc13
Species: Mus musculus
Matching format of first motif: Original Motif

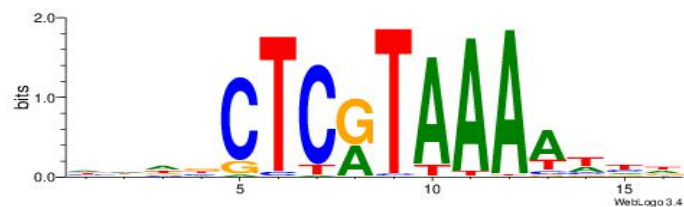
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	7
Similarity score:	0

Alignment:

```
DHWTTTTAMGAGBDHH
-----TTTAAAA-----
```

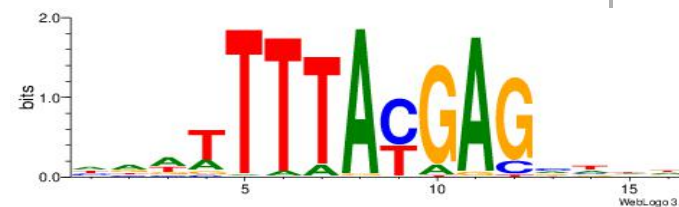
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH



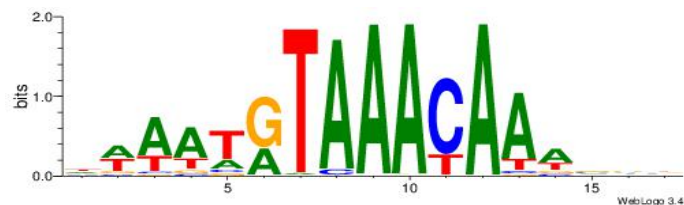
Motif ID:	UP00061
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	7
Similarity score:	0.00269372

Alignment:

VVVWTTGTTTAMATTWD
 -----TTTAAAA---

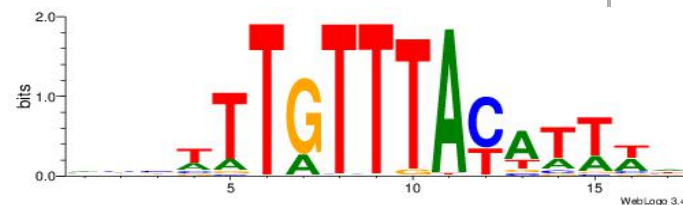
Original motif

Consensus sequence: DWAATRTAAACA WVVV



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID:	UP00245
Motif name:	Hoxc10
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	7
Similarity score:	0.00395798

Alignment:

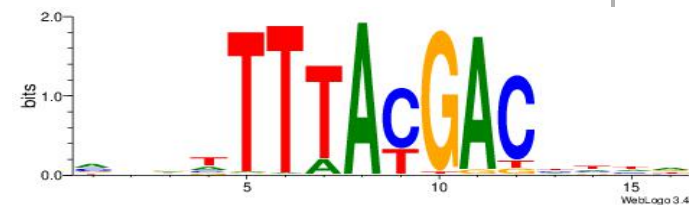
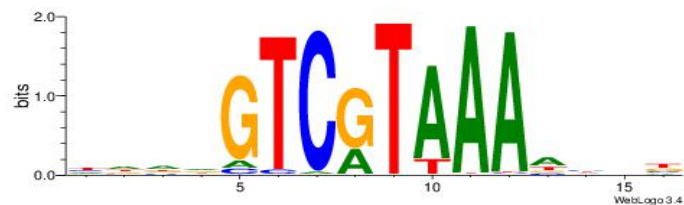
VBDDTTTACGACDDDH
 -----TTTAAAA-----

Original motif

Consensus sequence: HDDGTCGTAAADHBB

Reverse complement motif

Consensus sequence: VBDDTTTACGACDDDH

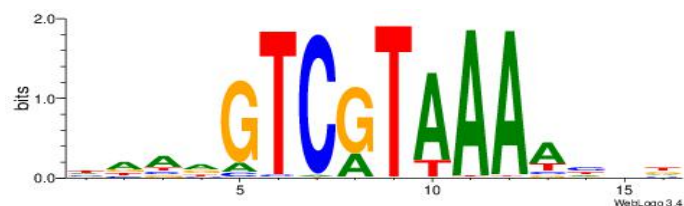


Motif ID: [UP00246](#)
 Motif name: Hoxa11
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00543955

Alignment:
 DDDTTTACGACDTH
 ----TTTAAA-----

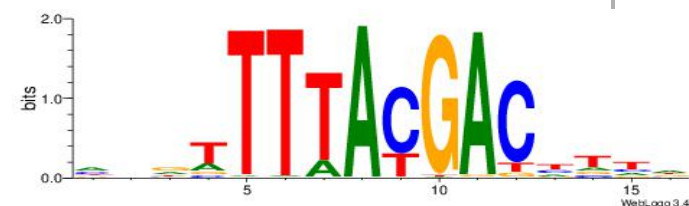
Original motif

Consensus sequence: HDADGTCGTAAAAHDD



Reverse complement motif

Consensus sequence: DDDTTTACGACDTH



Motif ID: [UP00183](#)

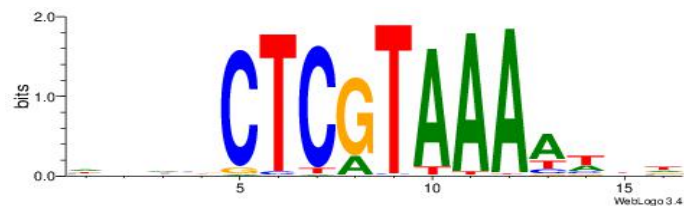
Motif name: Hoxa13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00548253

Alignment:

DVWTTTACGAGBHDH
 ----TTTAAAA-----

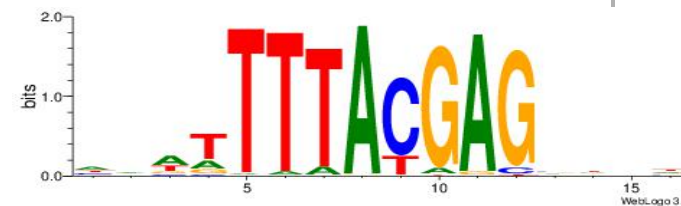
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTACGAGBHDH



Dataset #: 2 Motif ID: 56 Motif name: Motif 56

Original motif

Consensus sequence: CACGGA

Reverse complement motif

Consensus sequence: TCCGTG



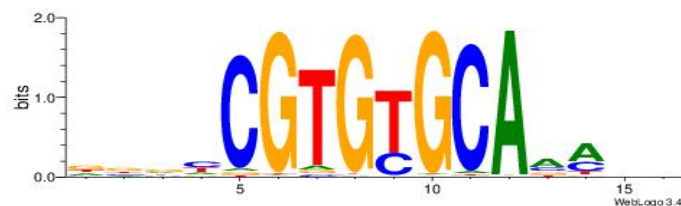
Best Matches for Motif ID 56 (Highest to Lowest)

Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0

Alignment:
 HDYTTGCACACGDHBH
 -----CACGGA--

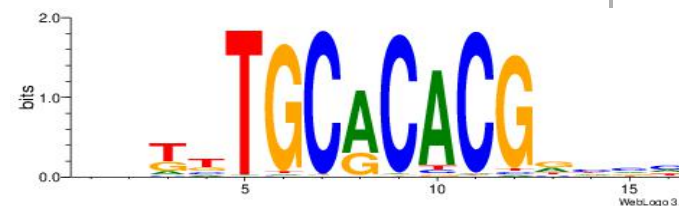
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



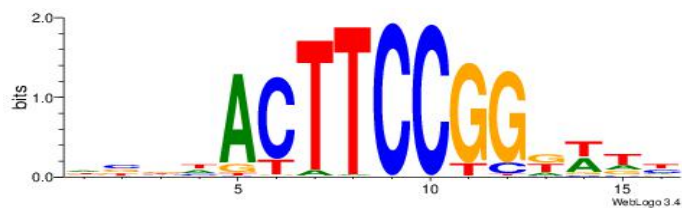
Motif ID: [UP00413](#)
 Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.00585124

Alignment:

DBBHACTTCCGGKWTH
 -----TCCGTG---

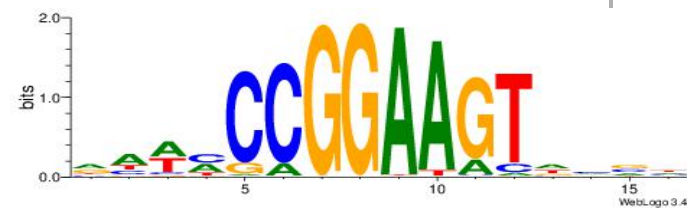
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5

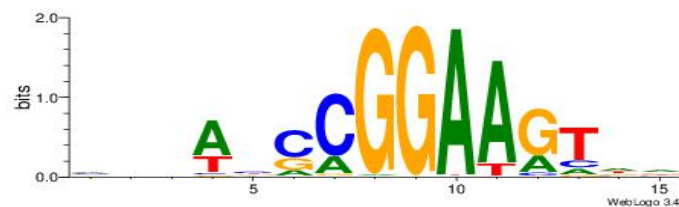
Number of overlap: 6
Similarity score: 0.00729902

Alignment:

VBDABCCGGAAGTDD
-----CACGGA-----

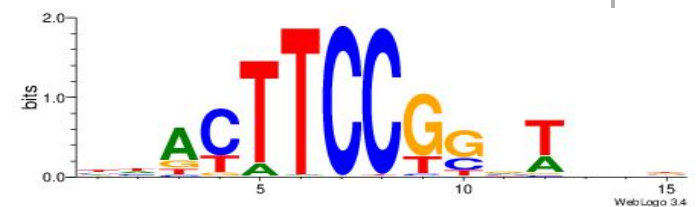
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 6
Similarity score: 0.00854253

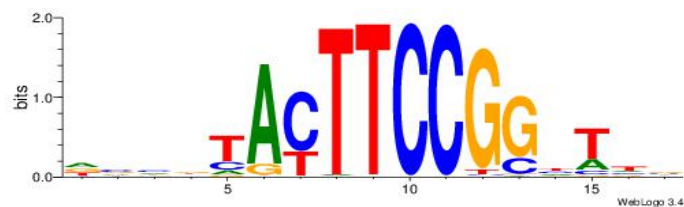
Alignment:

BHAHCCGGAAGTABDVD
---CACGGA-----

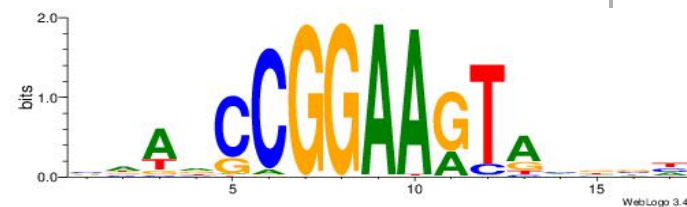
Original motif

Reverse complement motif

Consensus sequence: DVHBTACTTCCGGHTHB



Consensus sequence: BHAHCCGGAAGTABDVD



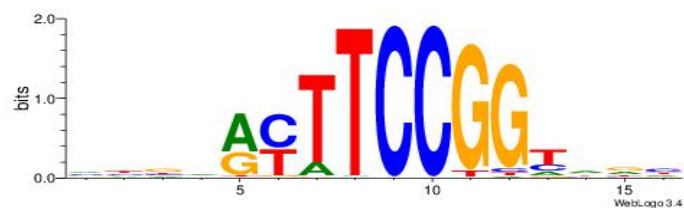
Motif ID: [UP00415](#)
Motif name: Elk4
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.00956651

Alignment:

DHDACCGGAAKKHBVB
---CACGGA-----

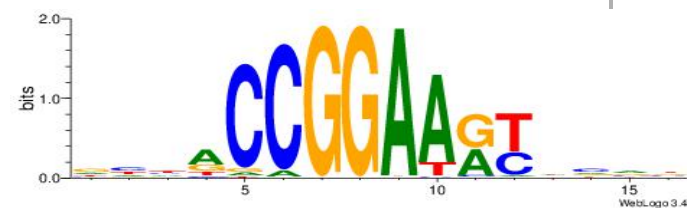
Original motif

Consensus sequence: VBBHRYTTCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAAKKHBVB



Dataset #: 2 **Motif ID: 57** **Motif name: Motif 57**

Original motif

Consensus sequence: SAGGAA



Reverse complement motif

Consensus sequence: TTCCTS



Best Matches for Motif ID 57 (Highest to Lowest)

Motif ID:	UP00409
Motif name:	Elf5
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	6
Similarity score:	0

Alignment:

BWAHSMGGAAGTWD

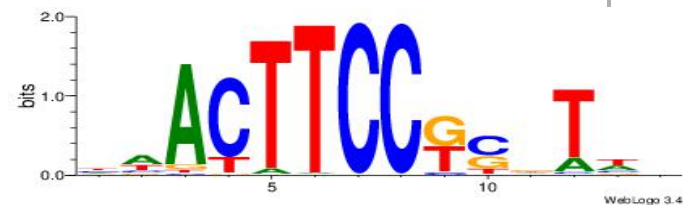
-----SAGGAA-----

Original motif

Consensus sequence: BWAHSMGGAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV

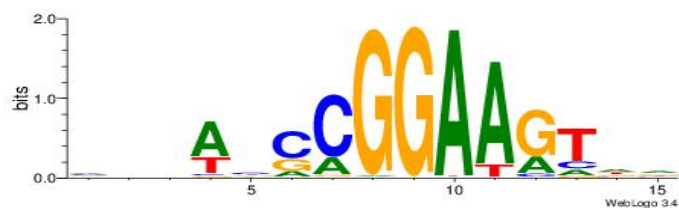


Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0107799

Alignment:
 VBDABCCGGAAGTDD
 -----SAGGAA-----

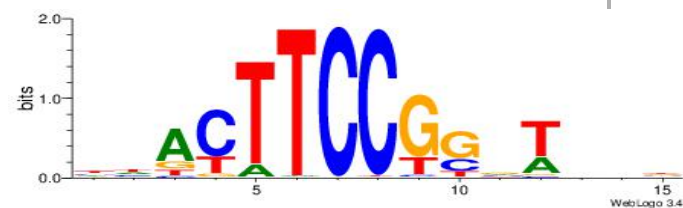
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



Motif ID: [UP00085](#)

Motif name: Sfpi1_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: 6
 Similarity score: 0.0111702

Alignment:
 BDAWGVGGAAGTDH
 ----SAGGAA----

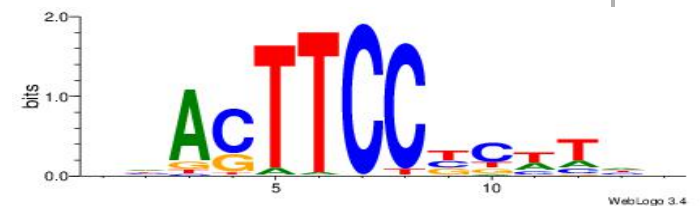
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



Motif ID: [UP00090](#)
 Motif name: Elf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6

Similarity score: 0.0129245

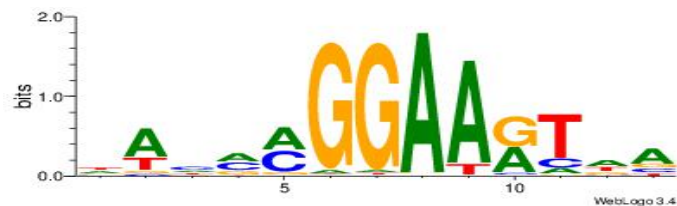
Alignment:

DAHMMGGAARTDA

---SAGGAA----

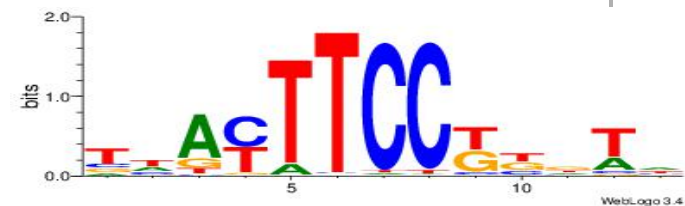
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



Motif ID: [UP00419](#)
Motif name: Spic
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 6
Similarity score: 0.0156312

Alignment:

VAAAGMGAAGTWD

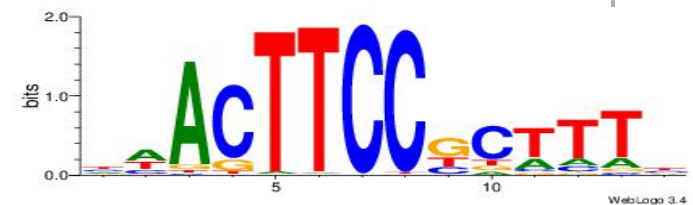
----SAGGAA----

Original motif

Consensus sequence: VAAAGMGAAGTWD

Reverse complement motif

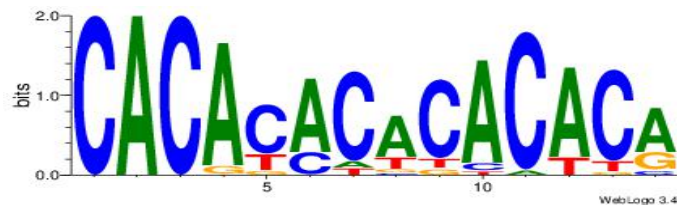
Consensus sequence: DWACTTCRCCTTTB



Dataset #: 2 Motif ID: 58 Motif name: Motif 58

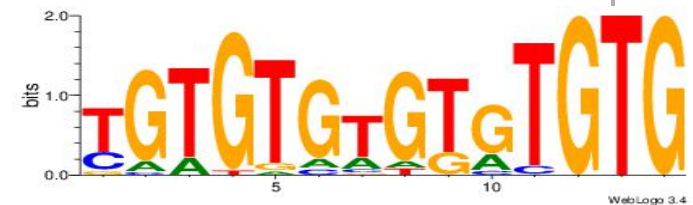
Original motif

Consensus sequence: CACACACACACA



Reverse complement motif

Consensus sequence: TGTGTGTGTGTG



Best Matches for Motif ID 58 (Highest to Lowest)

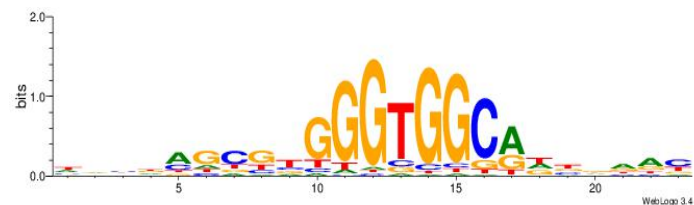
Motif ID:	UP00538
Motif name:	Gli1_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	14
Similarity score:	0.0412006

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
TGTGTGTGTGTGTG-----

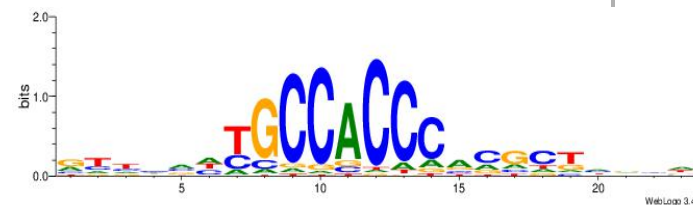
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0416527

Alignment:

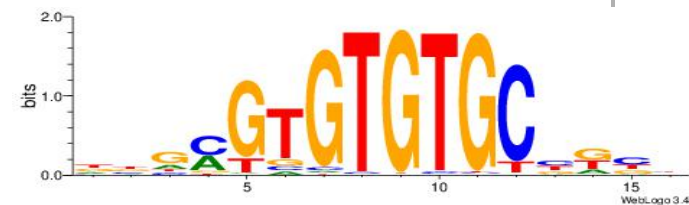
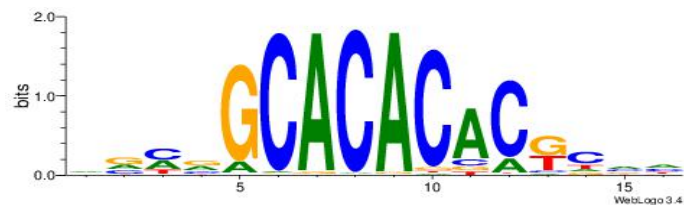
DVMVGCACACACKCVH
-CACACACACACA-

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

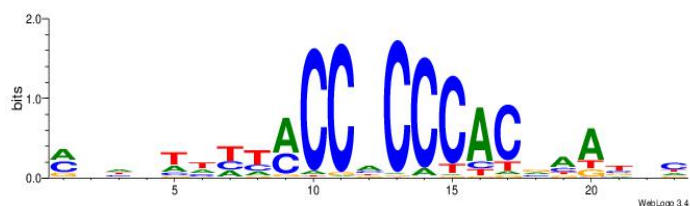


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0449549

Alignment:
 MHHHWHYTMCCCHCCCACVAABVH
 -----CACACACACACACA-

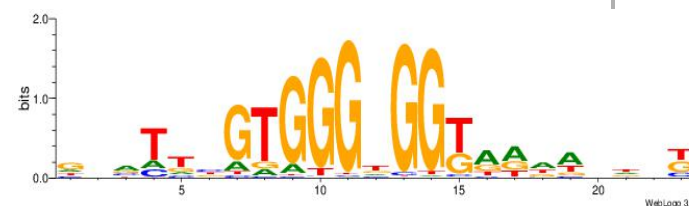
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00025](#)

Motif name:	Foxk1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0479822

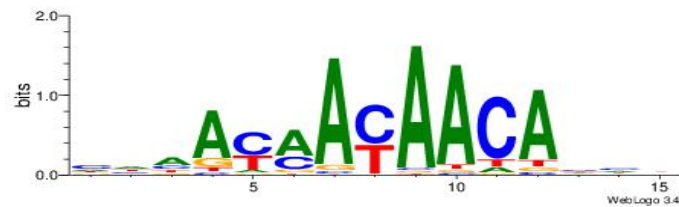
Alignment:

```

HDDTGTTKTTKTHHD
-TGTGTGTGTGTGTG
  
```

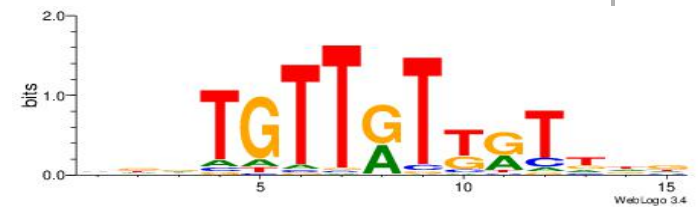
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



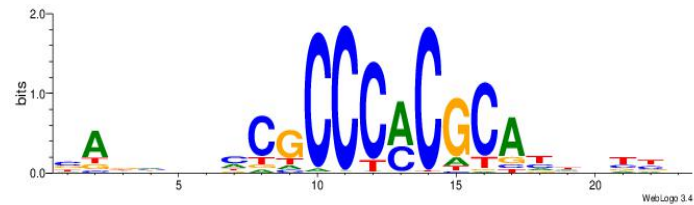
Motif ID:	UP00400
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0489492

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
-----CACACACACACA--

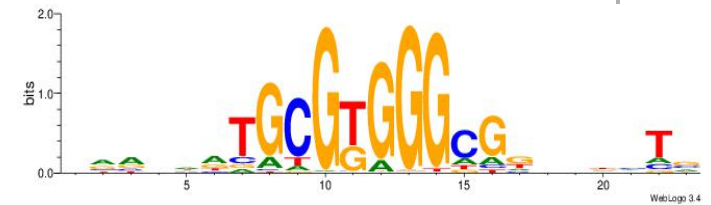
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



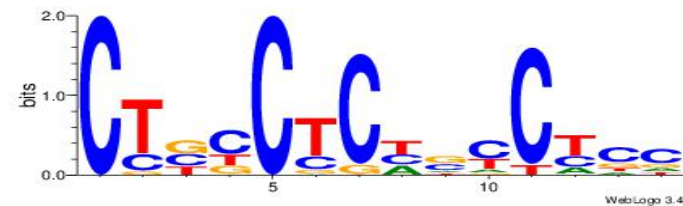
Dataset #: 2

Motif ID: 59

Motif name: Motif 59

Original motif

Consensus sequence: CTBCCTCHSYCYCC



Reverse complement motif

Consensus sequence: GGMGKSHGAGGBAG



Best Matches for Motif ID 59 (Highest to Lowest)

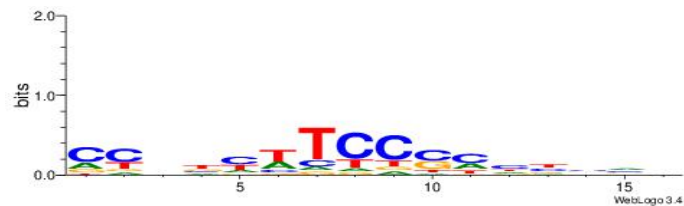
Motif ID:	UP00013
Motif name:	Gabpa_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0333718

Alignment:
CYDBYWTCCSMHBVVH
-CTBCCTCHSYCYCC-

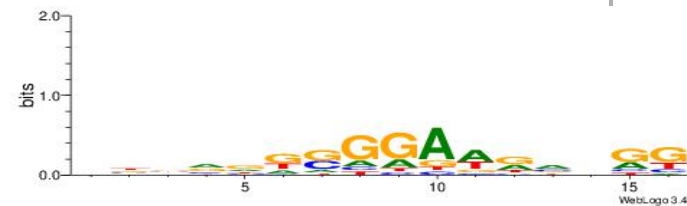
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVVDRSGGAWKVHKG



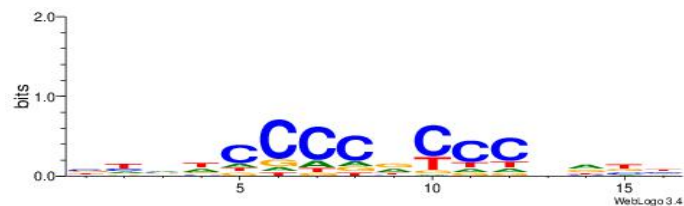
Motif ID: [UP00099](#)
Motif name: Ascl2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0436108

Alignment:

HVDVGGGHGGGGDBHB
-GGMGKSHGAGGBAG-

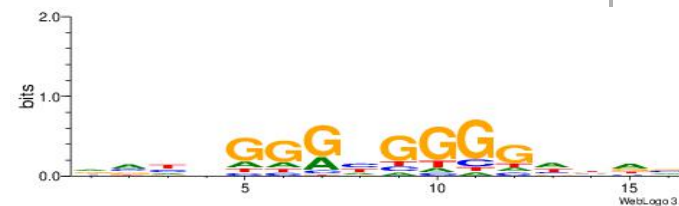
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID:	UP00002
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0445099

Alignment:

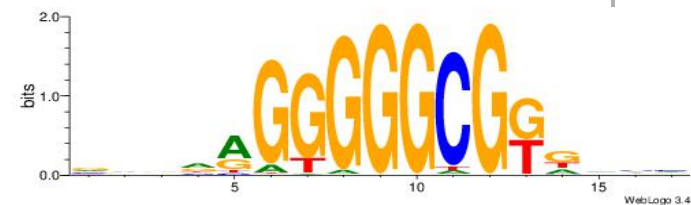
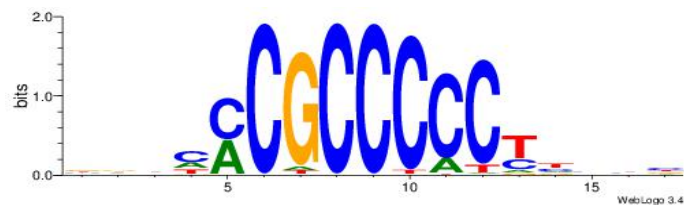
BDHHMCGCCCCCTHVBB
-CTBCCTCHSYCYCC--

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

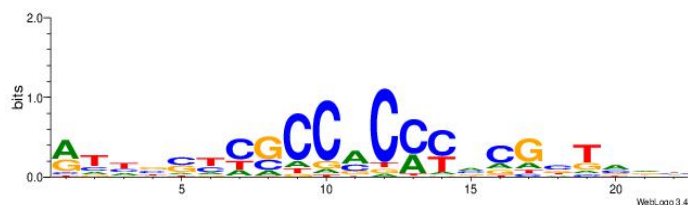


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 14
 Similarity score: 0.0448549

Alignment:
 RTHBSYCGCCMCMYVCGBTVDH
 --CTBCCTCHSYCYCC-----

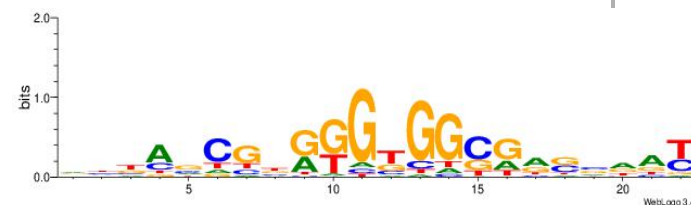
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00021](#)

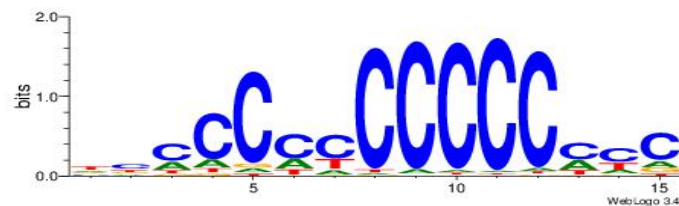
Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.045689

Alignment:

DBCCCCCCCCCMYC
 -CTBCCTCHSYCYCC

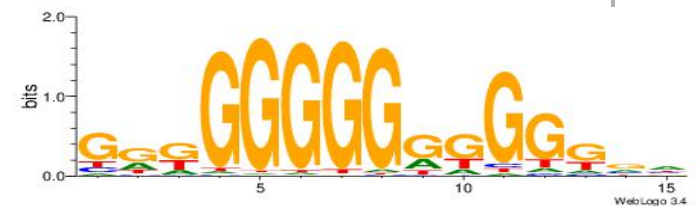
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



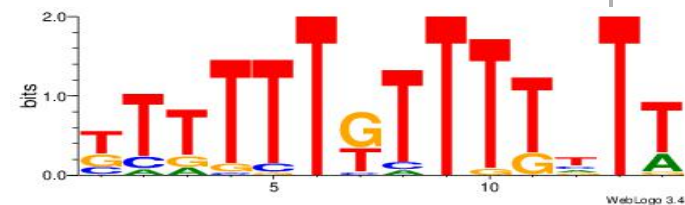
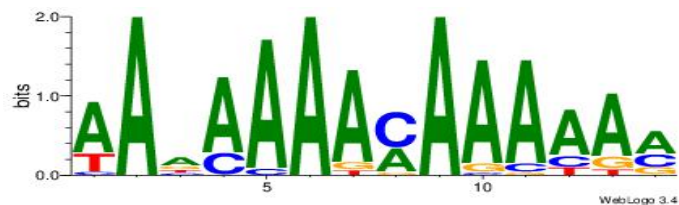
Dataset #: 2 Motif ID: 60 Motif name: Motif 60

Original motif

Consensus sequence: AADAAAAMAAAAM

Reverse complement motif

Consensus sequence: YTTTTTRTTTDTT



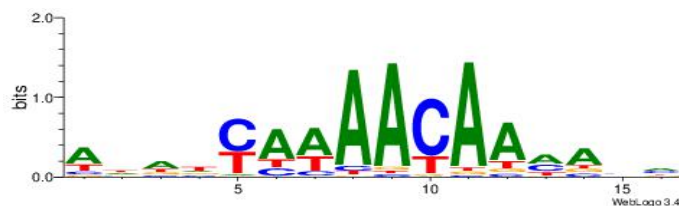
Best Matches for Motif ID 60 (Highest to Lowest)

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: 1
 Number of overlap: 14
 Similarity score: 0.0143339

Alignment:
 HDTYTTGTTWTKDDDT
 YTTTTTRTTTTDTT--

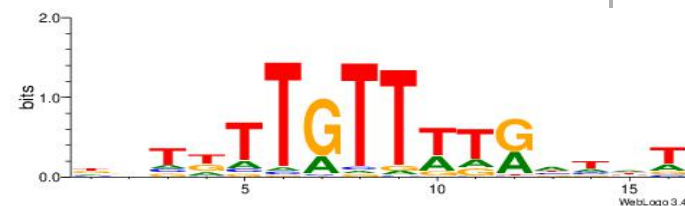
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



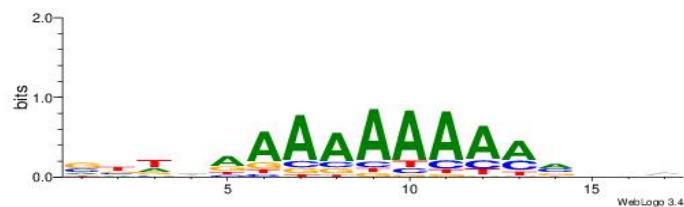
Motif ID: [UP00077](#)
 Motif name: Srf_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0231061

Alignment:

VBDDAAAAAAAAAMVBHH
 -AADAAAAMAAAAM--

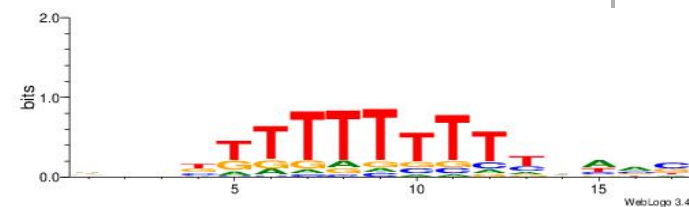
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



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

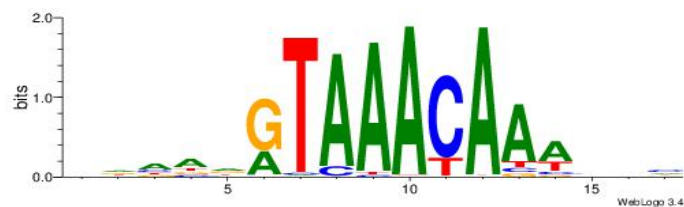
Number of overlap: 14
Similarity score: 0.0239537

Alignment:

HDHADGTAAACAAAVVH
---AADAAAAMAAAAAM

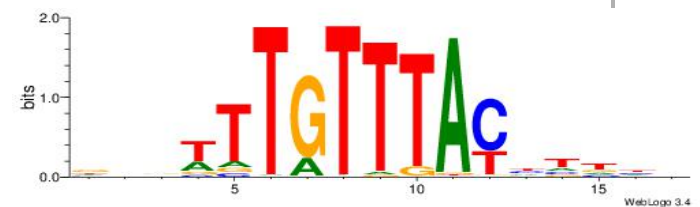
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



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: 1
Number of overlap: 14
Similarity score: 0.0256033

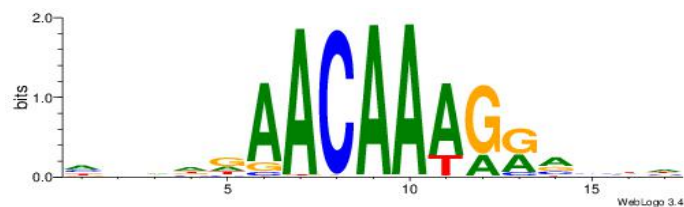
Alignment:

HBDDDAACAAAGRVBHH
AADAAAAMAAAAAM---

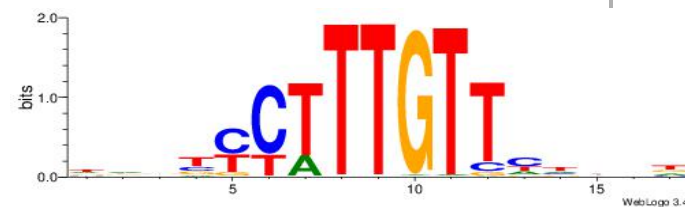
Original motif

Reverse complement motif

Consensus sequence: HBDDDAACAAAGRVBHH



Consensus sequence: HHBBMCTTTGTTHDDBH



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: 1
Number of overlap: 14
Similarity score: 0.0256443

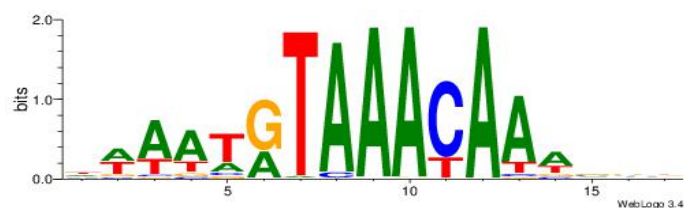
Alignment:

DWAATRТААCAAWVVB

---AADAAAAMAAAAAM

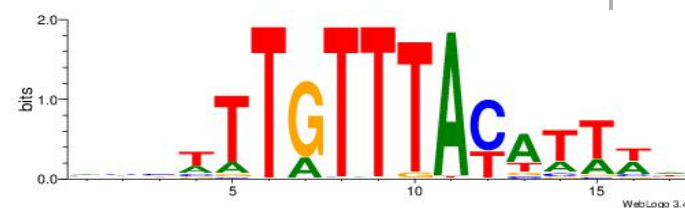
Original motif

Consensus sequence: DWAATRТААCAAWVVB



Reverse complement motif

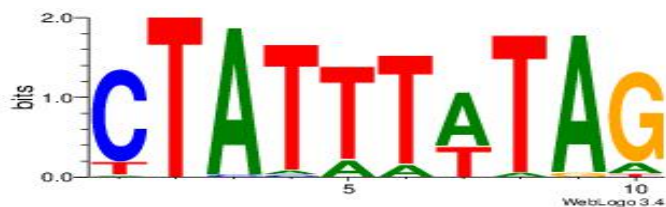
Consensus sequence: VVVWTTGTTTAMATTWD



Dataset #: 3 **Motif ID: 61** **Motif name: MEF2A**

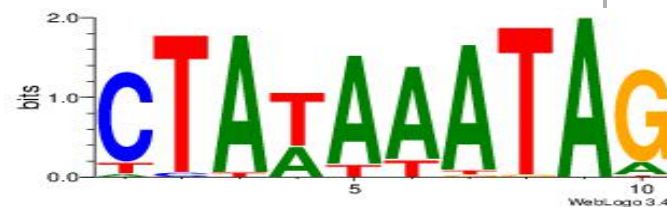
Original motif

Consensus sequence: CTATTTWTAG



Reverse complement motif

Consensus sequence: CTAWAAATAG



Best Matches for Motif ID 61 (Highest to Lowest)

Motif ID:	UP00136
Motif name:	Prrx2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0146962

Alignment:

DDDHKCTAATTAGCHBT

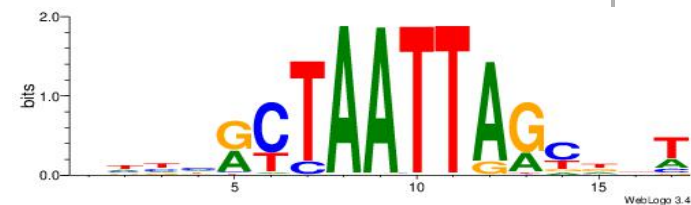
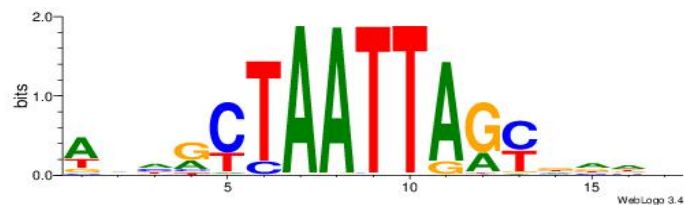
---CTAWAAATAG----

Original motif

Consensus sequence: AVHGCTAATTAGYDDDD

Reverse complement motif

Consensus sequence: DDDHKCTAATTAGCHBT

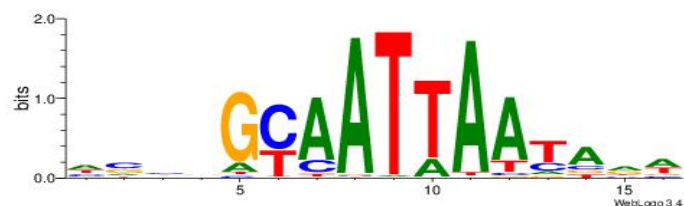


Motif ID: [UP00263](#)
 Motif name: Hoxb8
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.0163693

Alignment:
 HVBDGYAATTAATADW
 -----CTATTTWTAG-

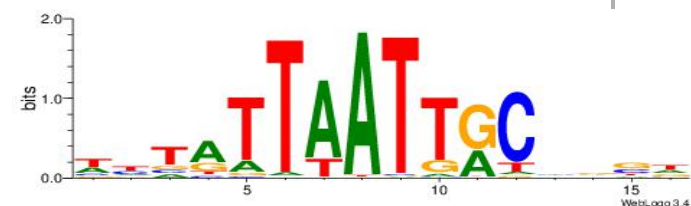
Original motif

Consensus sequence: HVBDGYAATTAATADW



Reverse complement motif

Consensus sequence: WDTATTAATTKCHBVH



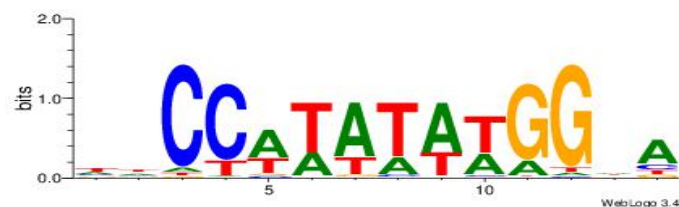
Motif ID: [UP00077](#)

Motif name: Srf_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: 0.0166836

Alignment:
 HHCCWTATAWGGHA
 --CTATTTWTAG--

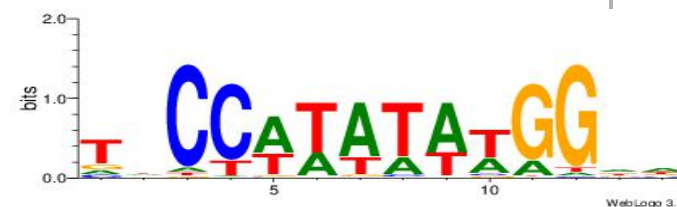
Original motif

Consensus sequence: HHCCWTATAWGGHA



Reverse complement motif

Consensus sequence: THCCWTATAWGGHH



Motif ID: [UP00207](#)
 Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10

Similarity score: 0.0172097

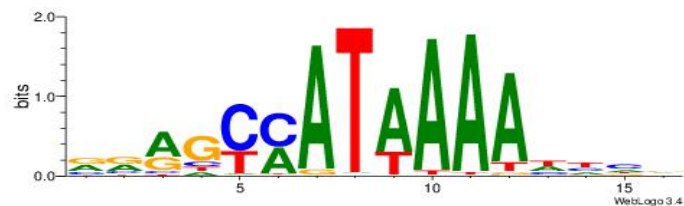
Alignment:

HDHHTTTTATRGCKMV

--CTATTTWTAG----

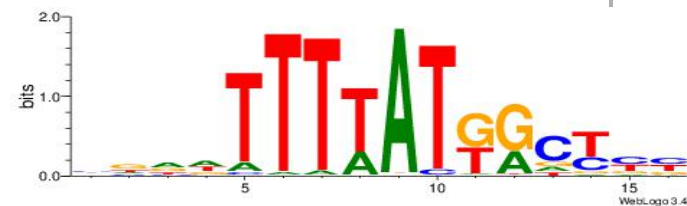
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID: [UP00131](#)

Motif name: Gbx2

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 5

Number of overlap: 10

Similarity score: 0.0183254

Alignment:

DVDVKCTAATTAGMVVD

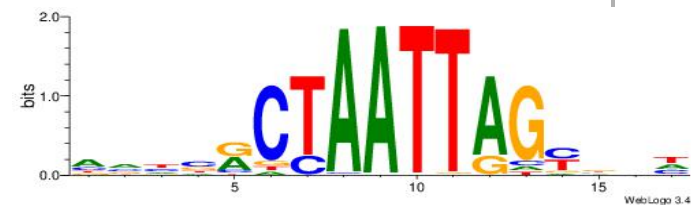
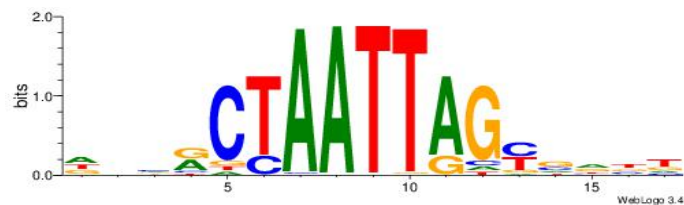
---CTAWAAATAG----

Original motif

Consensus sequence: DVVRCTAATTAGYVDBD

Reverse complement motif

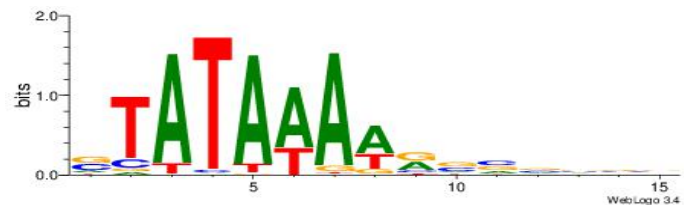
Consensus sequence: DVDVKCTAATTAGMVVD



Dataset #: 3 **Motif ID: 62** **Motif name: TBP**

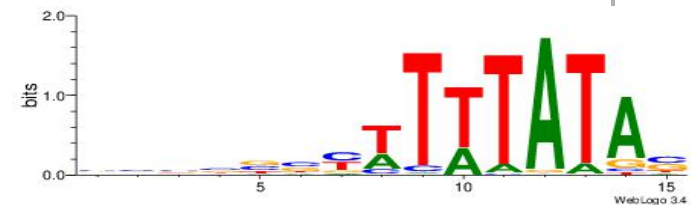
Original motif

Consensus sequence: STATAAAWRVVVVBV



Reverse complement motif

Consensus sequence: VBVVVMWTTTATAS



Best Matches for Motif ID 62 (Highest to Lowest)

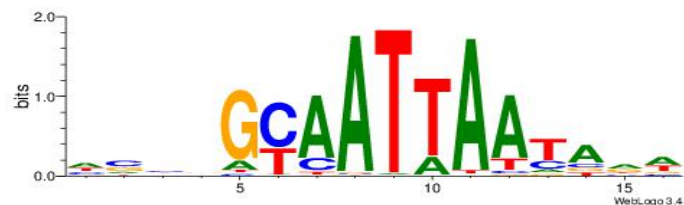
Motif ID:	UP00263
Motif name:	Hoxb8
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0516869

Alignment:

HVBDGYAATTAATADW
VBVVVVMWTTTATAS-

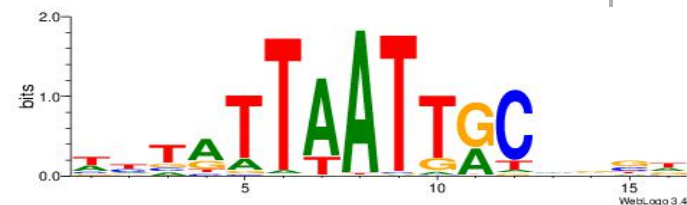
Original motif

Consensus sequence: HVBDGYAATTAATADW



Reverse complement motif

Consensus sequence: WDTATTAATTKCHBVH



Motif ID: [UP00064](#)
Motif name: Sox18_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: 0.0558243

Alignment:

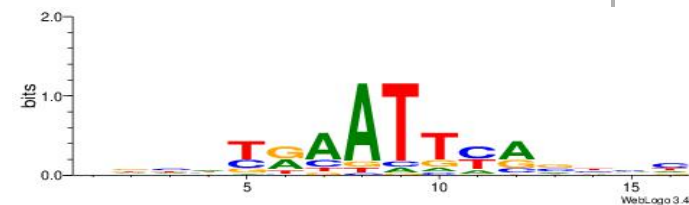
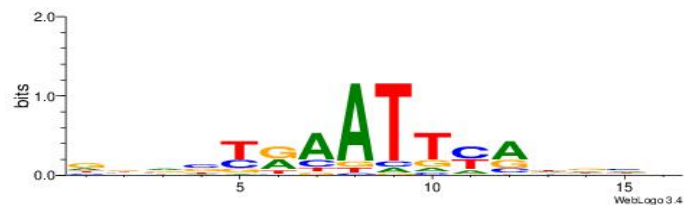
VDHDTKAATTMABBBH
VBVVVVMWTTTATAS-

Original motif

Consensus sequence: DBVBTRAATTYADDHV

Reverse complement motif

Consensus sequence: VDHDTKAATTMABBBH

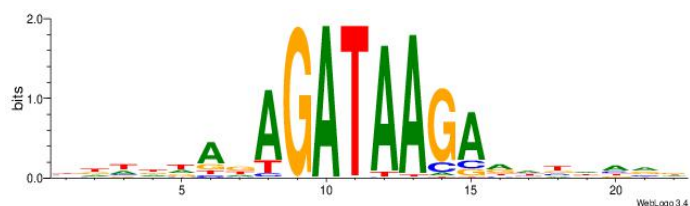


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.056942

Alignment:
 BDHDDADAGATAAGADHBDHVD
 -----STATAAWRVVVBV

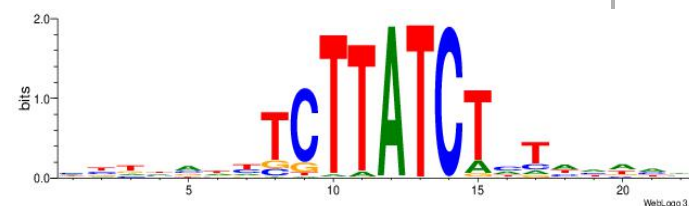
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00098](#)

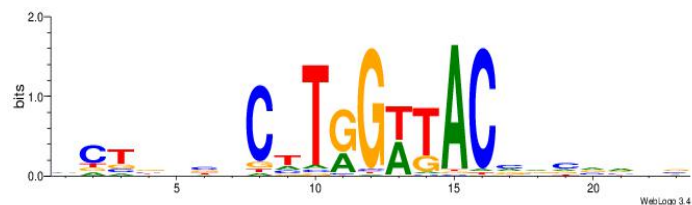
Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0584978

Alignment:

VCTBHBVCTTGGWTACVVVVVDB
 -VBVVVVMWTTTATAS-----

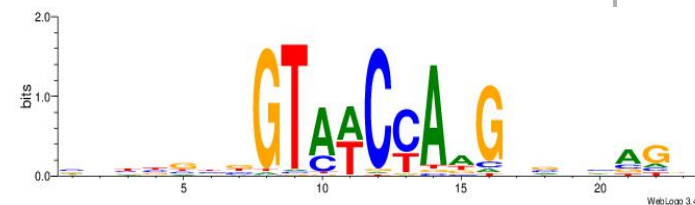
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00126](#)
 Motif name: Dlx2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15

Similarity score: 0.0596962

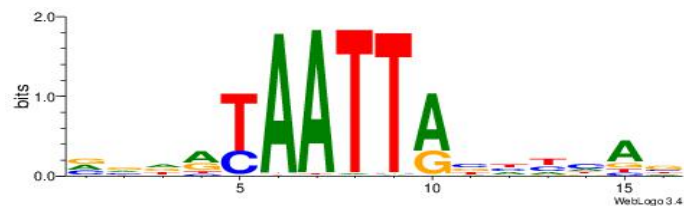
Alignment:

VVDRTAATTABHHHAB

-STATAAWRVVVBV

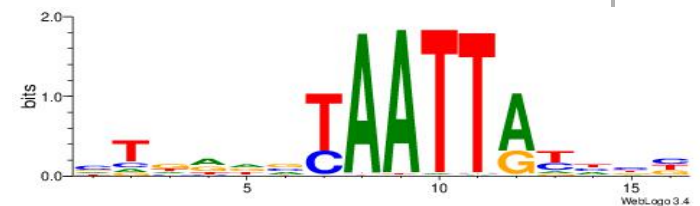
Original motif

Consensus sequence: VVDRTAATTABHHHAB



Reverse complement motif

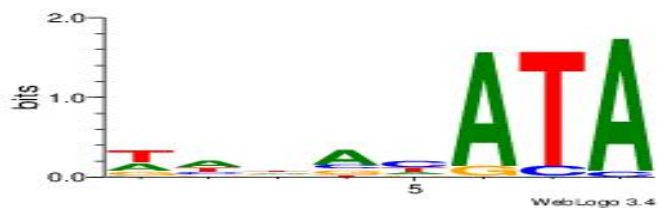
Consensus sequence: BTDDHBTAAATKDVV



Dataset #: 3 **Motif ID: 63** **Motif name: FOXL1**

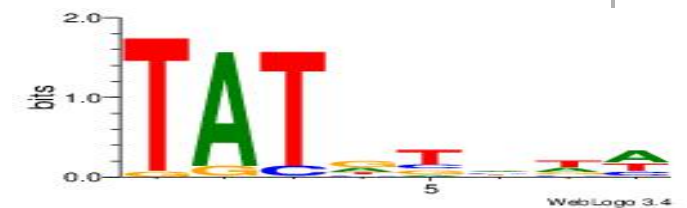
Original motif

Consensus sequence: WHDAHATA



Reverse complement motif

Consensus sequence: TATDTHW



Best Matches for Motif ID 63 (Highest to Lowest)

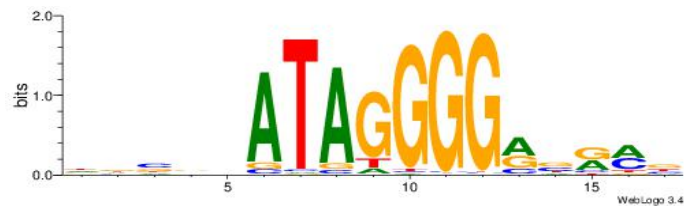
Motif ID: [UP00070](#)
Motif name: Gcm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0187381

Alignment:
DDBVHATAGGGGRBRMB
WHDAAATA-----

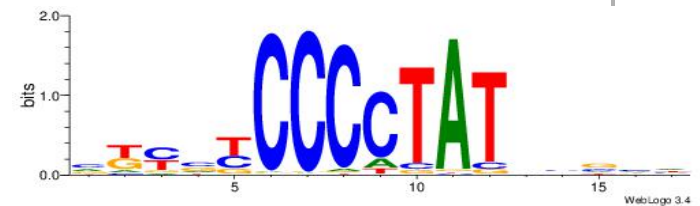
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



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:	8
Number of overlap:	8
Similarity score:	0.0275803

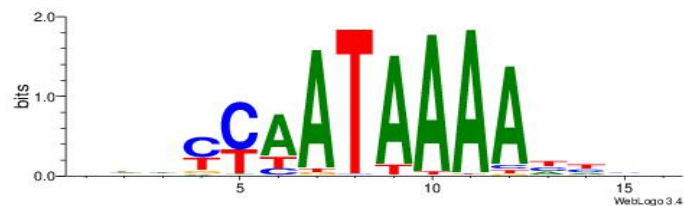
Alignment:

HDHHTTTTATTKKHDD

-----TATDTDHW-

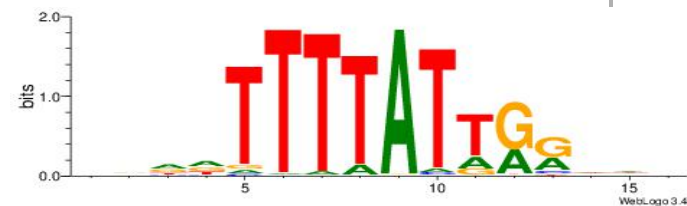
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID:	UP00059
Motif name:	Arid5a_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:	0.0289039

Alignment:

VYAATATTGVDADH

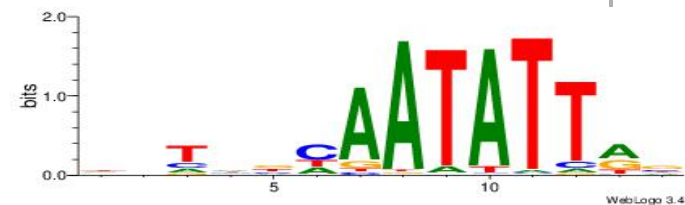
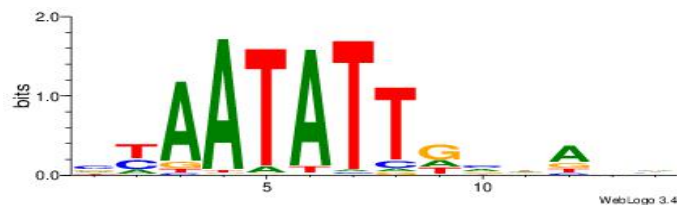
----TATDTDHW--

Original motif

Consensus sequence: VYAATATTGVDADH

Reverse complement motif

Consensus sequence: HDTDVCAATATTMV

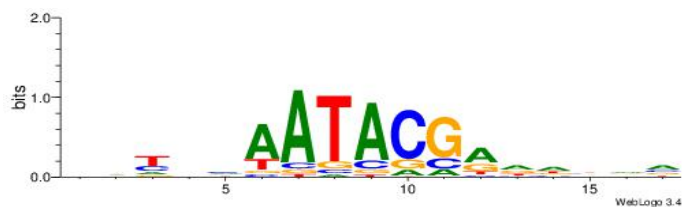


Motif ID: [UP00059](#)
 Motif name: Arid5a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.0298407

Alignment:
 BDYDVAATACGADDBVV
 -WHDAHATA-----

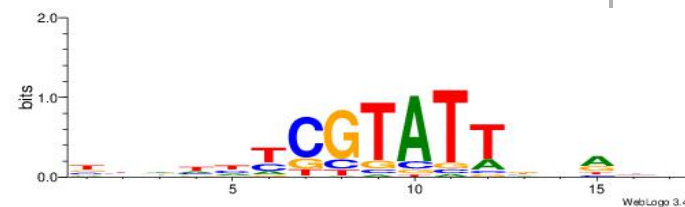
Original motif

Consensus sequence: BDYDVAATACGADDBVV



Reverse complement motif

Consensus sequence: BBVDDTCGTATTVDMHB



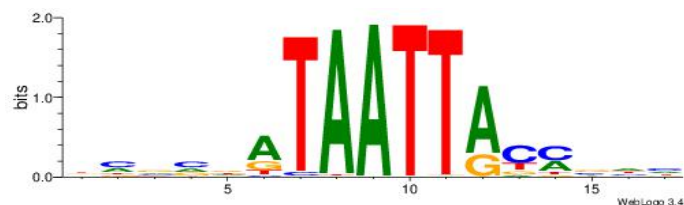
Motif ID: [UP00154](#)

Motif name: Dlx3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0298907

Alignment:
 BHVVDATAATTACMVHH
 WHDAHATA-----

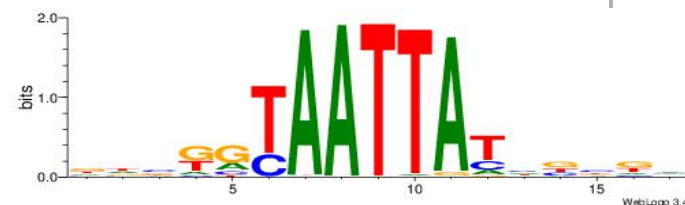
Original motif

Consensus sequence: BHVVDATAATTACMVHH



Reverse complement motif

Consensus sequence: DHVRGTAATTATHVVDV



Dataset #: 3 Motif ID: 64 Motif name: ARID3A

Original motif

Consensus sequence: ATYAAA



Reverse complement motif

Consensus sequence: TTTMAT



Best Matches for Motif ID 64 (Highest to Lowest)

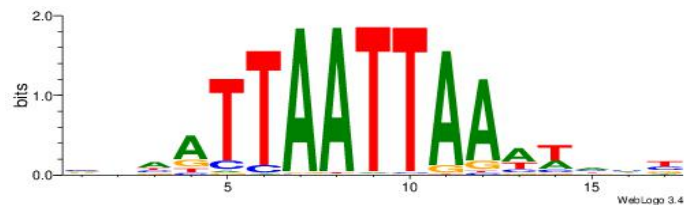
Motif ID: [UP00212](#)
Motif name: Lhx5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 6
Similarity score: 0

Alignment:

VDHATTAATTAAAWHHB
-----ATYAAA-----

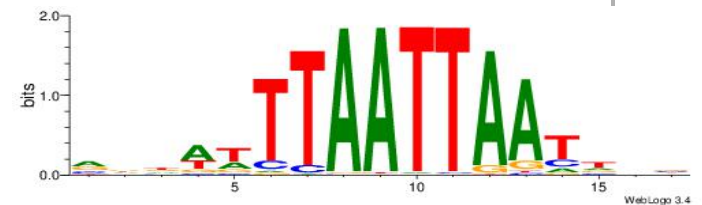
Original motif

Consensus sequence: VDHATTAATTAAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAATTAATHHV



Motif ID: [UP00130](#)
Motif name: Lhx3
Species: Mus musculus
Matching format of first motif: Reverse Complement

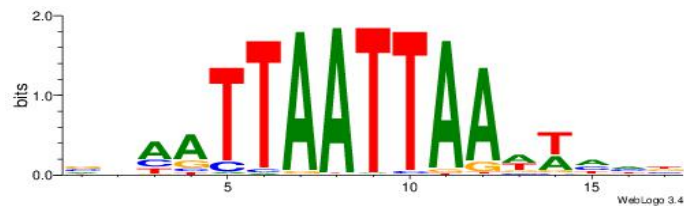
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	6
Similarity score:	0.00146194

Alignment:

```
VHHWWTTAATTAATTDV
-----TTMAT-----
```

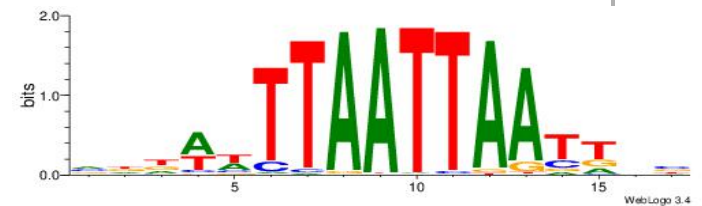
Original motif

Consensus sequence: VDAATTAATTAAWWHB



Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV



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:	6
Similarity score:	0.00211796

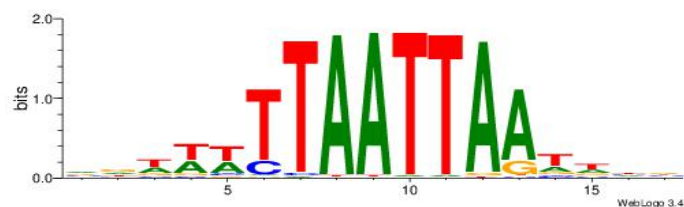
Alignment:

VDWWTTAATTAATDHB

-----TTMAT-----

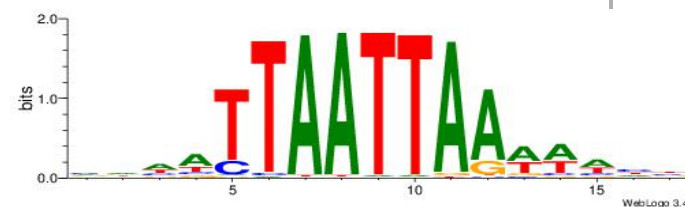
Original motif

Consensus sequence: VDWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID:	UP00213
Motif name:	Hoxa9
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:	0.00270371

Alignment:

WDTAWTTTWATGKCCGD

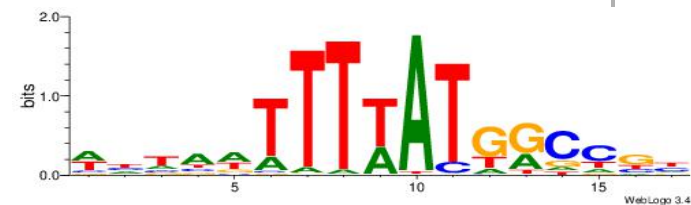
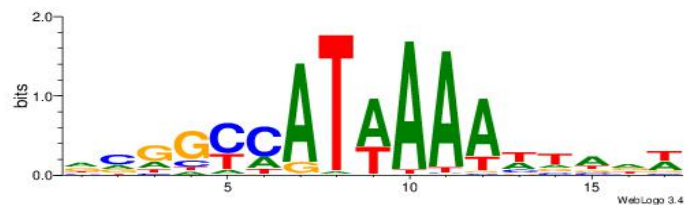
-----TTMAT-----

Original motif

Consensus sequence: DCGGYCATWAAAWTADW

Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD

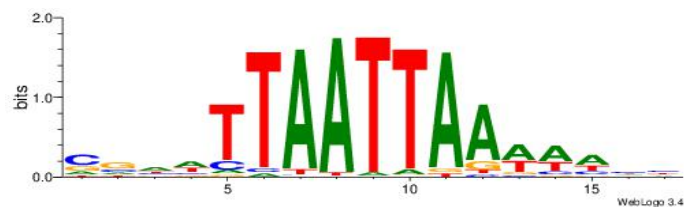


Motif ID: [UP00188](#)
 Motif name: Lmx1a
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00429494

Alignment:
 BDWWTTAATTAAHHVG
 ----TTTMA-----

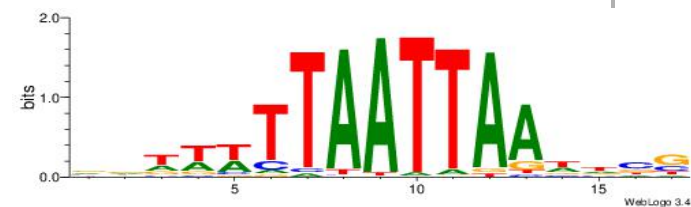
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

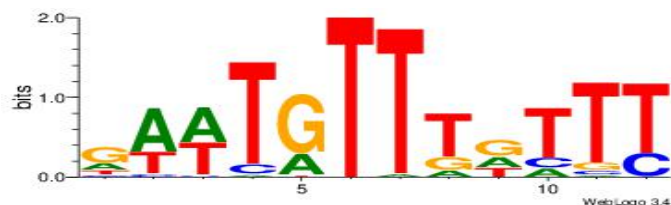
Consensus sequence: BDWWTTAATTAAHHVG



Dataset #: 3 **Motif ID: 65** **Motif name: Foxd3**

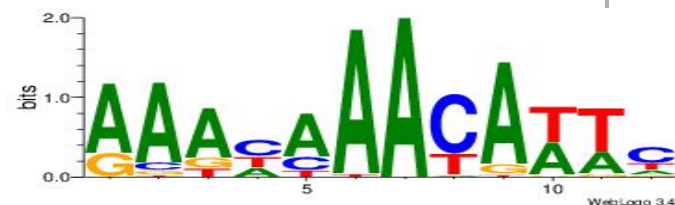
Original motif

Consensus sequence: GAWTGTTTDTTT



Reverse complement motif

Consensus sequence: AAAHAAACAWTC



Best Matches for Motif ID 65 (Highest to Lowest)

Motif ID:	UP00037
Motif name:	Zfp105_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0199939

Alignment:

HHHTTRTTDTTTKDH

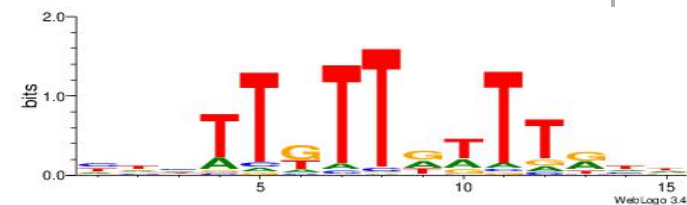
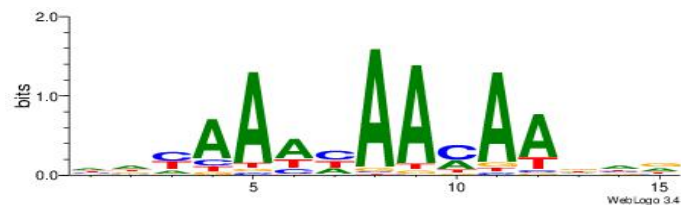
-GAWTGTTTDTTT--

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH

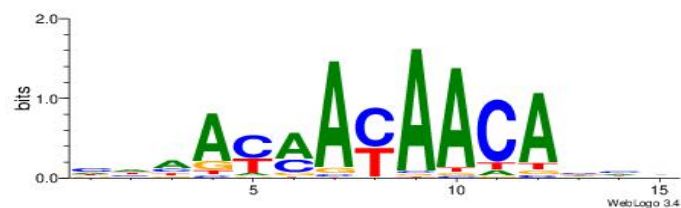


Motif ID: [UP00025](#)
 Motif name: Foxk1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0284901

Alignment:
 HDDTGTTKTTKTHHD
 GAWTGTTTDTTT---

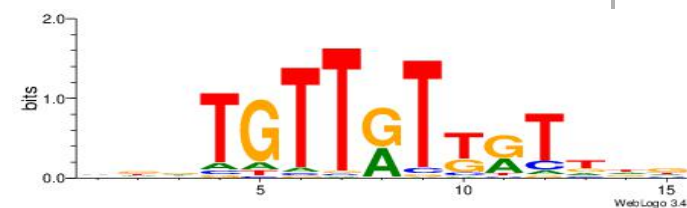
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00090](#)

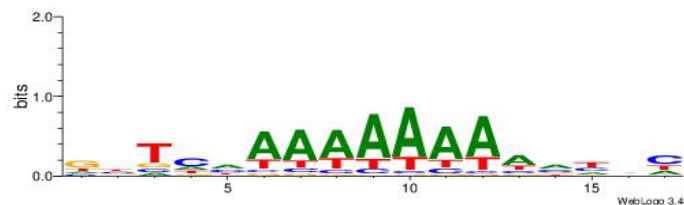
Motif name: Elf3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0300632

Alignment:

DBTHHAAAAAAAAAVH
 -----AAAHAAACAWTC

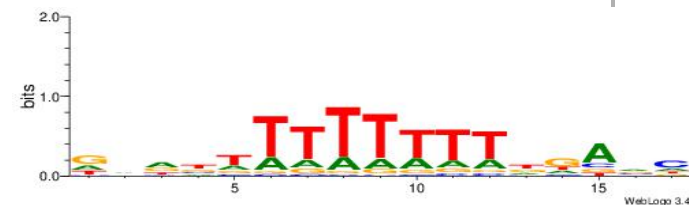
Original motif

Consensus sequence: DBTHHAAAAAAAAAVH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



Motif ID: [UP00077](#)
 Motif name: Srf_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 12

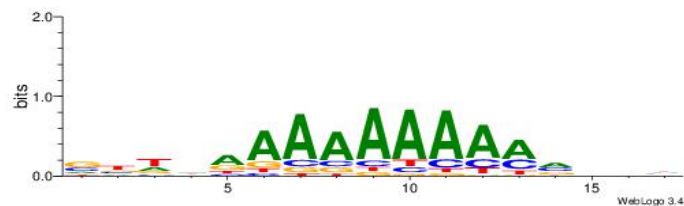
Similarity score: 0.030621

Alignment:

VBDDAAAAAAAAAMVBHH
-----AAAHAAACAWTC

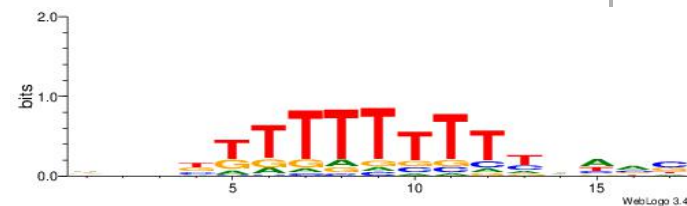
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



Motif ID: [UP00073](#)
Motif name: Foxa2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0336182

Alignment:

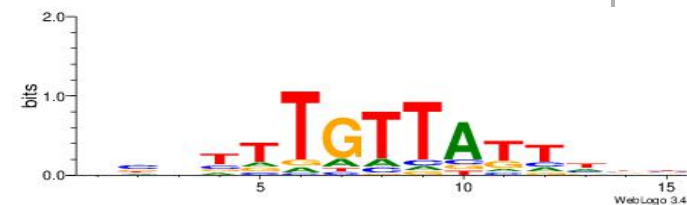
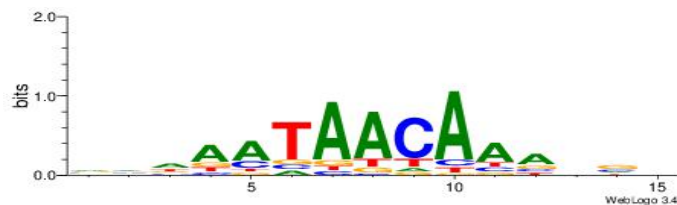
VVDAATAACAAAVVB
-AAAHAAACAWTC--

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

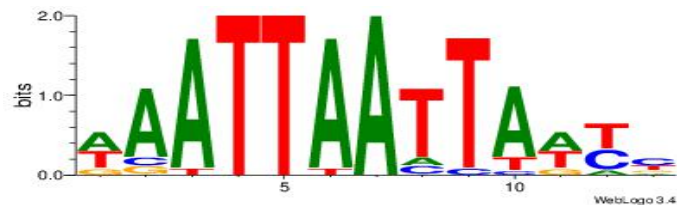
Consensus sequence: BVVTTTGTTATTDBB



Dataset #: 3 Motif ID: 66 Motif name: Lhx3

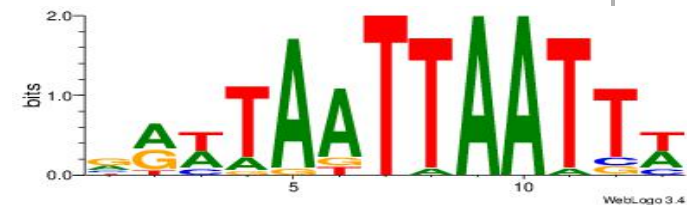
Original motif

Consensus sequence: WAATTAATTAWYB



Reverse complement motif

Consensus sequence: BMWTAATTAATTW



Best Matches for Motif ID 66 (Highest to Lowest)

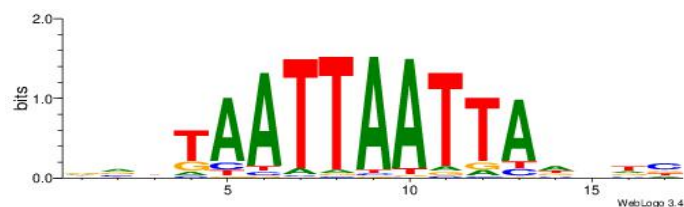
Motif ID:	UP00158
Motif name:	Pou1f1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0

Alignment:

BDHDTAATTAATTADBH
-BMWTAATTAATTW---

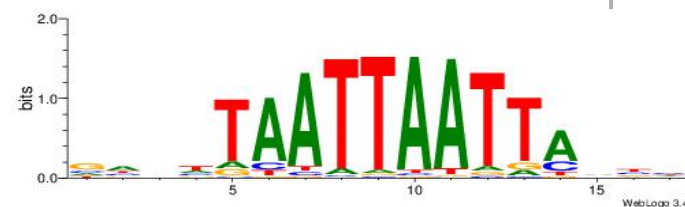
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



Motif ID:	UP00105
Motif name:	Pou3f4
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.00121383

Alignment:

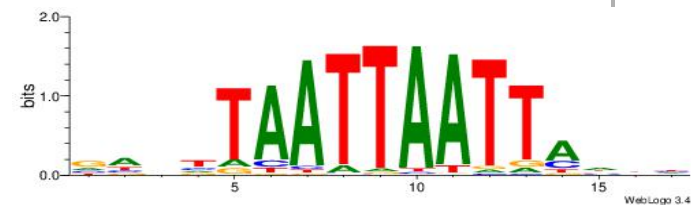
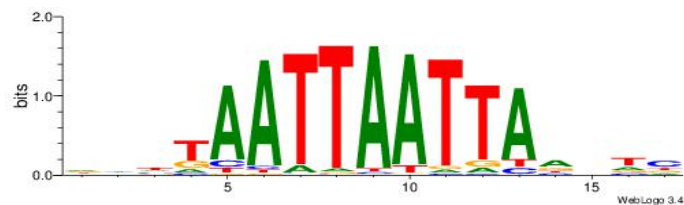
DVHTAATTAATTADDDDB
---WAATTAATTAWYB-

Original motif

Consensus sequence: DVHTAATTAATTADDDDB

Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD

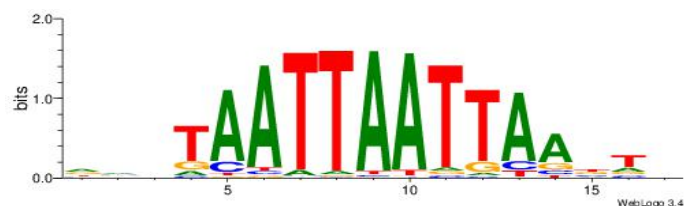


Motif ID: [UP00129](#)
 Motif name: Pou3f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.00257587

Alignment:
 DVBTAATTAATTAABTH
 ---WAATTAATTAWYB-

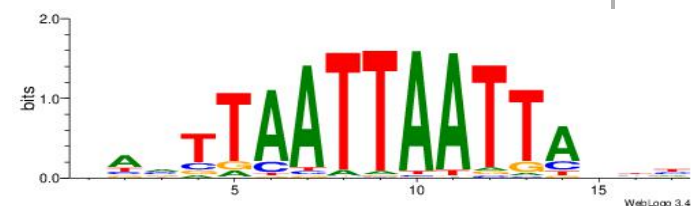
Original motif

Consensus sequence: DVBTAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



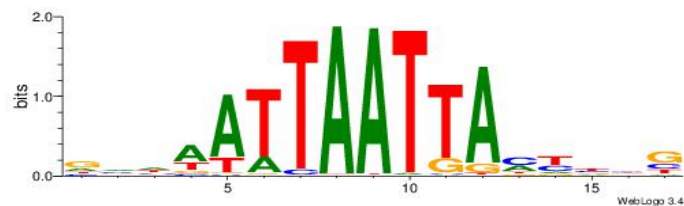
Motif ID: [UP00200](#)

Motif name: Nkx6-1_2825.1
 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: 13
 Similarity score: 0.00504022

Alignment:
 DVHAATTAATTAMYBBG
 --WAATTAATTAWYB--

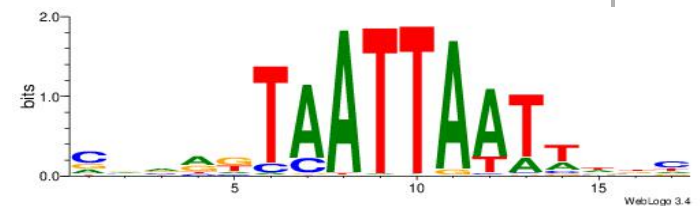
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



Motif ID: [UP00128](#)
 Motif name: Pou3f2
 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: 13

Similarity score: 0.0101975

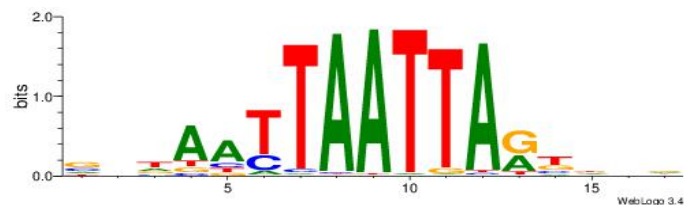
Alignment:

VDDAATTAATTARBDHD

--WAATTAATTAWYB--

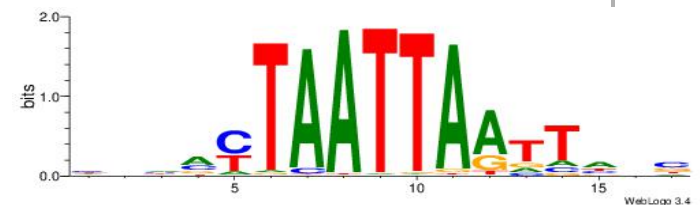
Original motif

Consensus sequence: VDDAATTAATTARBDHD



Reverse complement motif

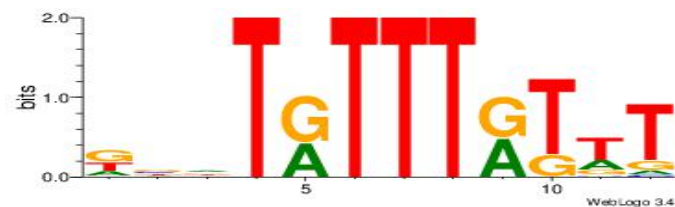
Consensus sequence: HHDVMTAATTAATTDDV



Dataset #: 3 **Motif ID: 67** **Motif name: FOXI1**

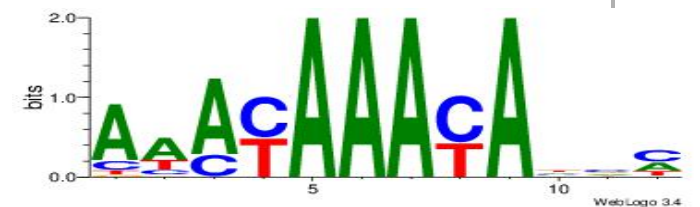
Original motif

Consensus sequence: KBDTRTTTTRTTT



Reverse complement motif

Consensus sequence: AAAMAAAMADBY



Best Matches for Motif ID 67 (Highest to Lowest)

Motif ID:	UP00077
Motif name:	Srf_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

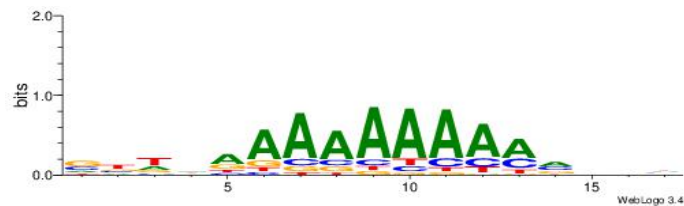
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0179427

Alignment:

```
VBDDAAAAAAAAAMVBHH
----AAAMAAAMADBY-
```

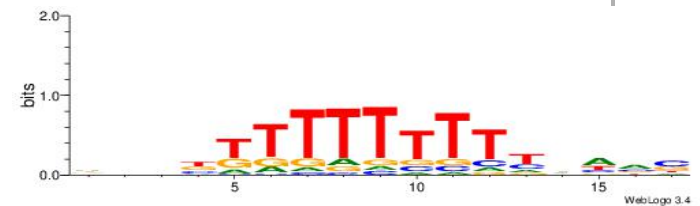
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDV



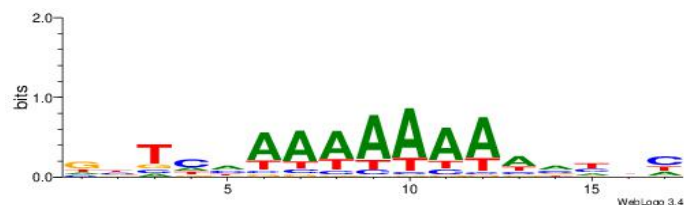
Motif ID:	UP00090
Motif name:	Elf3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0239728

Alignment:

```
DDHBTTTTTTTTHDAVH
-----AAAMAAAMADBY
```

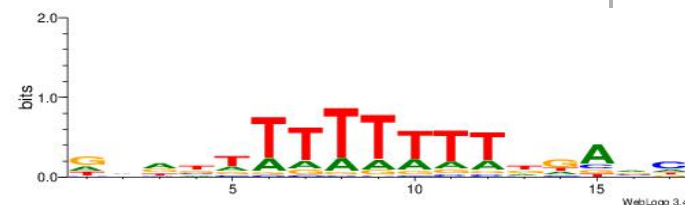
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



Motif ID:

[UP00025](#)

Motif name:

Foxk1_secondary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Forward

Position number:

1

Number of overlap:

12

Similarity score:

0.0256298

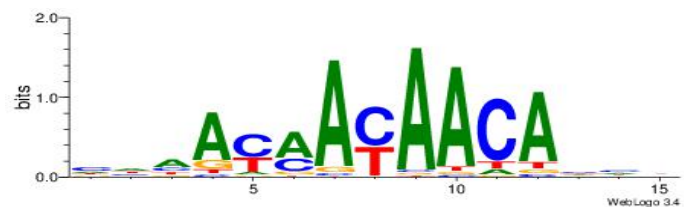
Alignment:

HDDTGTTKTTKTHHD

KBDTRTTTRTTT---

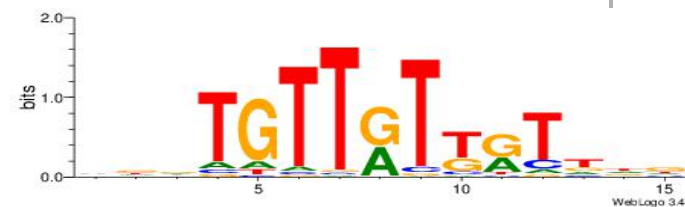
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



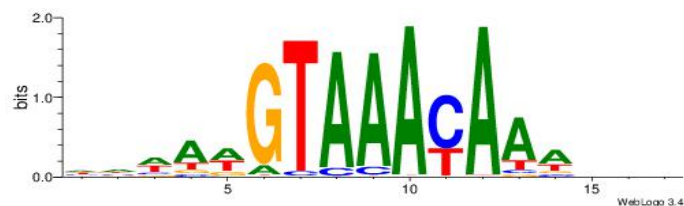
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0259593

Alignment:

BDVTTTKTTTACWTWHH
 --KBDTRTTTTRTTT---

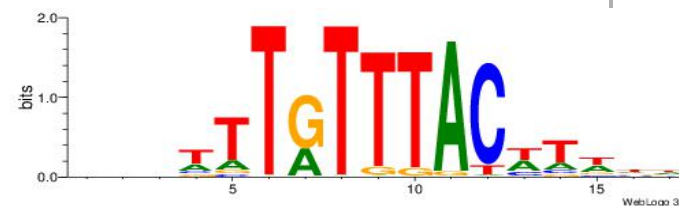
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



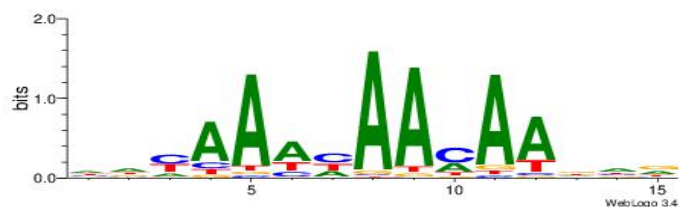
Motif ID: [UP00037](#)
 Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward

Position number: 3
 Number of overlap: 12
 Similarity score: 0.0264881

Alignment:
 HHHTTRTTDTTTKDH
 -KBDTRTTTTRTTT--

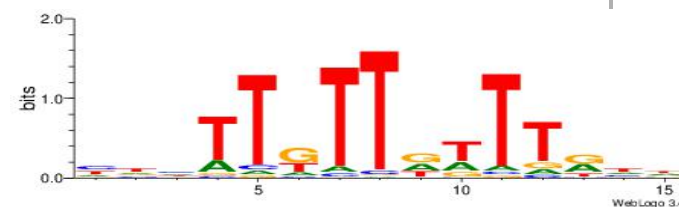
Original motif

Consensus sequence: HDYAAAHAAAMAADHD



Reverse complement motif

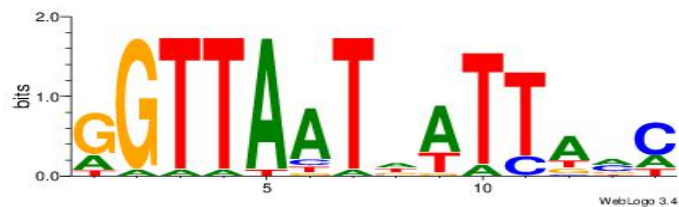
Consensus sequence: HHHTTRTTDTTTKDH



Dataset #: 3 Motif ID: 68 Motif name: HNF1A

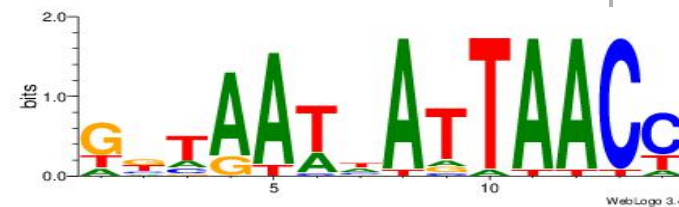
Original motif

Consensus sequence: GTTAATDATTAMC



Reverse complement motif

Consensus sequence: GYTAATDATTAACC



Best Matches for Motif ID 68 (Highest to Lowest)

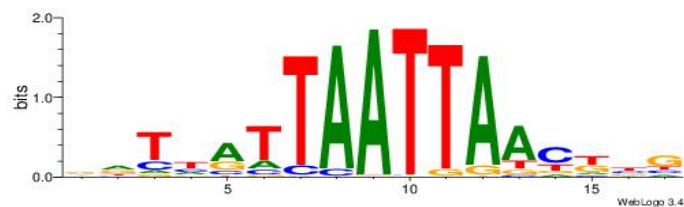
Motif ID: [UP00196](#)
 Motif name: Hoxa4

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: 0.0302874

Alignment:
 CVRGTTAATTAATHADH
 --GGTTAATDATTAMC-

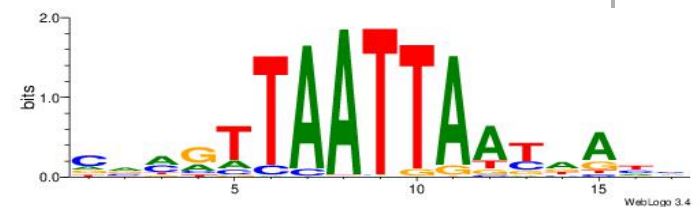
Original motif

Consensus sequence: DDTHATTAATTAACKBG



Reverse complement motif

Consensus sequence: CVRGTTAATTAATHADH



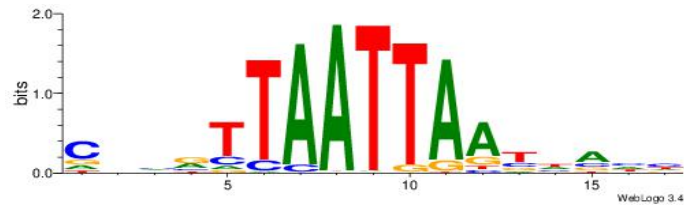
Motif ID: [UP00144](#)
 Motif name: Hoxb4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0326031

Alignment:

CVHRTTAATTAATHAHH
--GGTTAATDATTAMC--

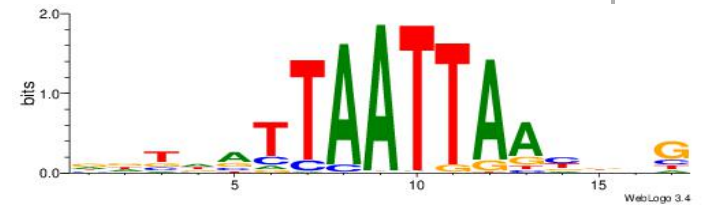
Original motif

Consensus sequence: CVHRTTAATTAATHAHH



Reverse complement motif

Consensus sequence: DDTHATTAATTAAMDVG



Motif ID:	UP00237
Motif name:	Otp
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:	14
Similarity score:	0.0337345

Alignment:

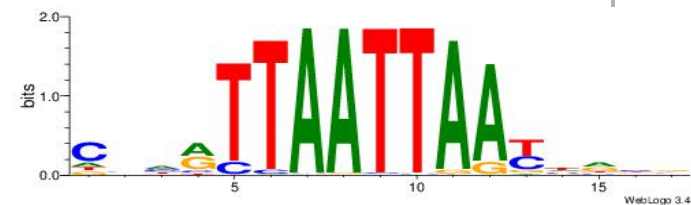
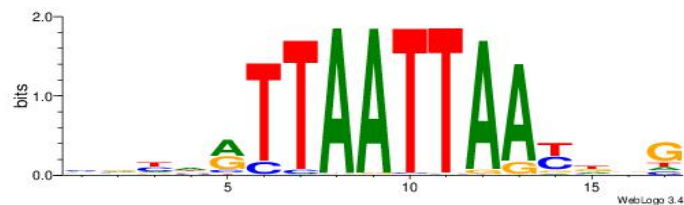
VVHDRTTAATTAAYDDG
-GYTAATDATTAACC--

Original motif

Consensus sequence: VVHDRTTAATTAAYDDG

Reverse complement motif

Consensus sequence: CHDMTTAATTAAKDHVV

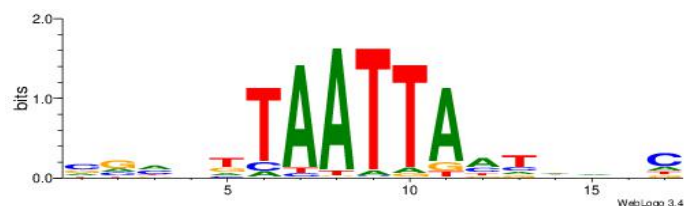


Motif ID: [UP00164](#)
 Motif name: Hoxa7_2668.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0338854

Alignment:
 GBDDAHTAATTADHHVV
 -GYTAATDATTAACC--

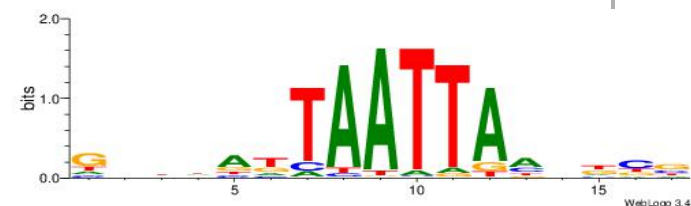
Original motif

Consensus sequence: VVHDDTAATTAHTDDBC



Reverse complement motif

Consensus sequence: GBDDAHTAATTADHHVV



Motif ID: [UP00141](#)

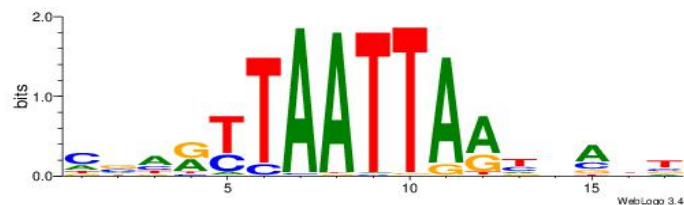
Motif name: Vsx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0357442

Alignment:

VHTDHTTAATTAAMHVG
 -GYTAATDATTAACC--

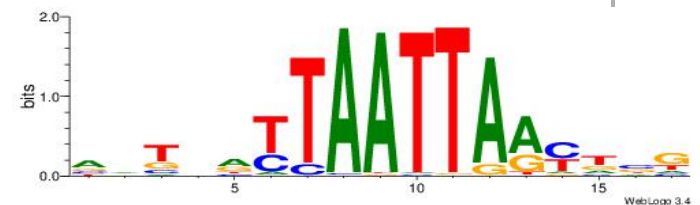
Original motif

Consensus sequence: CVHRTTAATTAHDAHB



Reverse complement motif

Consensus sequence: VHTDHTTAATTAAMHVG



Dataset #: 3 Motif ID: 69 Motif name: NKX3-1

Original motif

Consensus sequence: ATACTTA

Reverse complement motif

Consensus sequence: TAAGTAT



Best Matches for Motif ID 69 (Highest to Lowest)

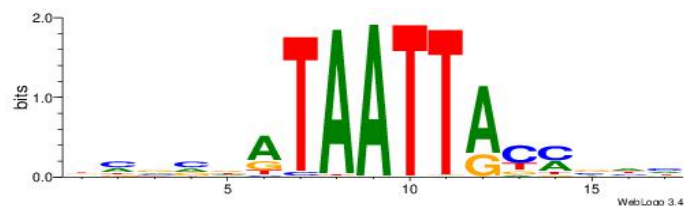
Motif ID: [UP00154](#)
 Motif name: Dlx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0

Alignment:

DHVRGTAATTATHVVDV
 -----TAAGTAT-----

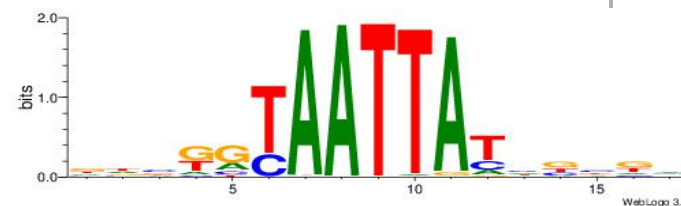
Original motif

Consensus sequence: BHVVDATAATTACMVHH



Reverse complement motif

Consensus sequence: DHVRGTAATTATHVVDV



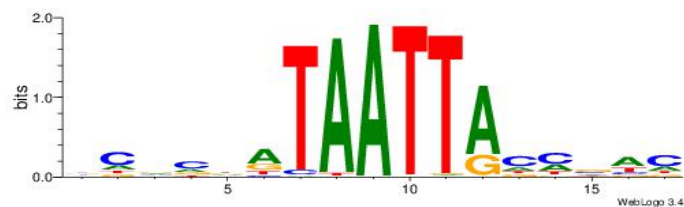
Motif ID: [UP00110](#)
 Motif name: Dlx4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.000606776

Alignment:

GHVRGTAATTATDVVG
 -----TAAGTAT-----

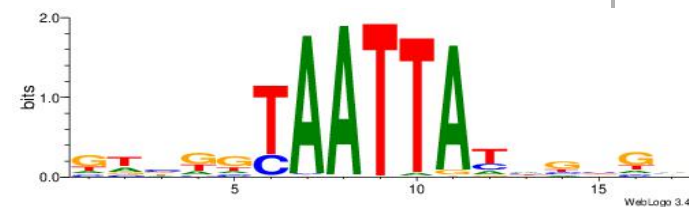
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVG



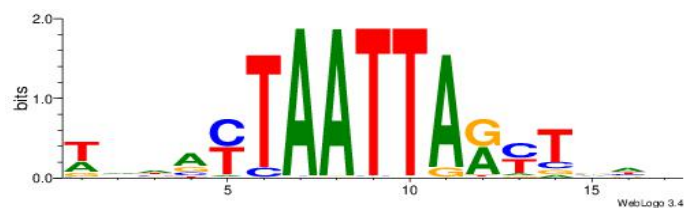
Motif ID: [UP00108](#)
 Motif name: Alx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

Number of overlap: 7
Similarity score: 0.00319583

Alignment:
VHVAKMTAATTAKTHBW
-----TAAGTAT-----

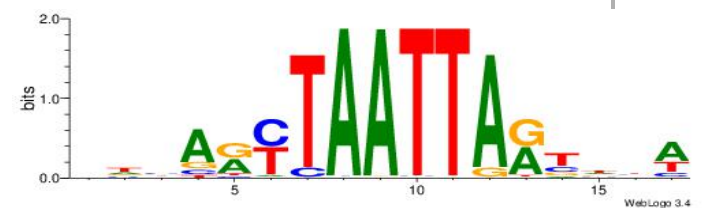
Original motif

Consensus sequence: WVHAYTAATTARYTVHV



Reverse complement motif

Consensus sequence: VHVAKMTAATTAKTHBW



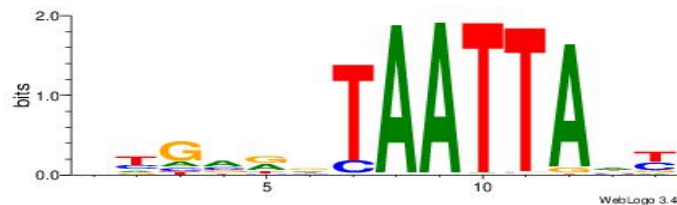
Motif ID: [UP00202](#)
Motif name: Dlx1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 7
Similarity score: 0.00693044

Alignment:
BHGVRDTAATTADY
-----ATACTTA--

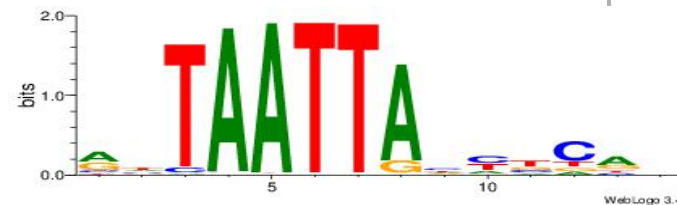
Original motif

Reverse complement motif

Consensus sequence: BHGVRDTAATTADY



Consensus sequence: MDTAATTAHMBCHB



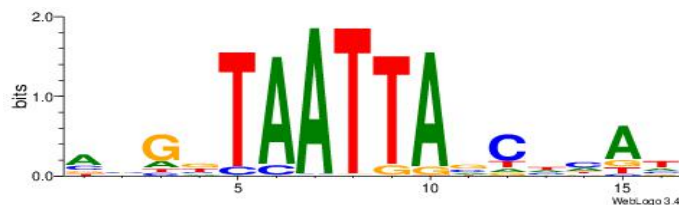
Motif ID: [UP00214](#)
Motif name: Hoxb5
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 7
Similarity score: 0.00733424

Alignment:

HTDHGVTAAATTABCVT
-----TAAGTAT---

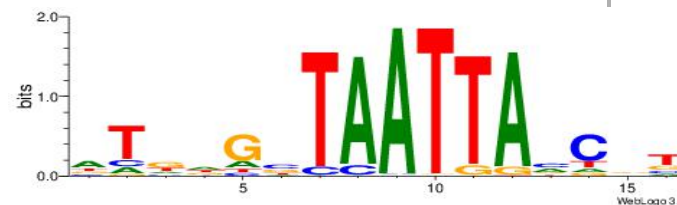
Original motif

Consensus sequence: AVGBTAATTAVCHHAH



Reverse complement motif

Consensus sequence: HTDHGVTAAATTABCVT



Dataset #: 3 **Motif ID: 70** **Motif name: Foxq1**

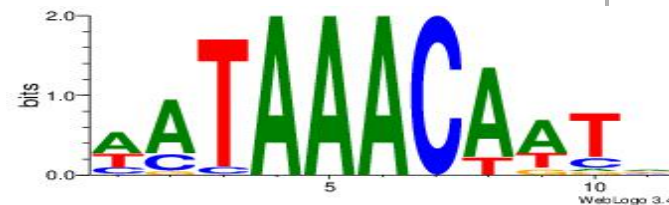
Original motif

Consensus sequence: HATTGTTTATW



Reverse complement motif

Consensus sequence: WATAACAATH



Best Matches for Motif ID 70 (Highest to Lowest)

Motif ID:	UP00041
Motif name:	Foxj1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

HDHRTAAACAAHDDD

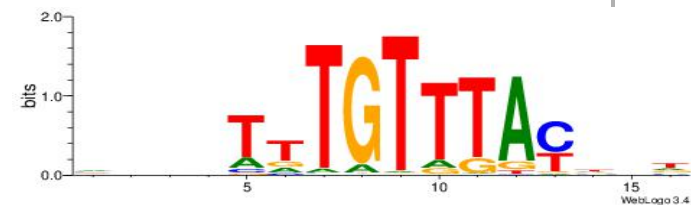
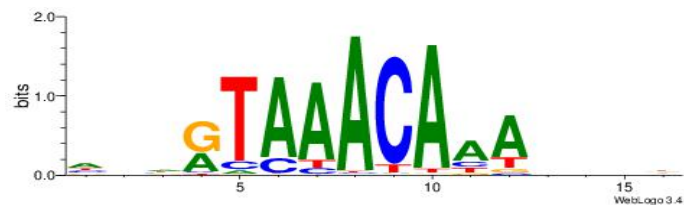
--WATAACAATH---

Original motif

Consensus sequence: HDHRTAAACAAHDDD

Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH

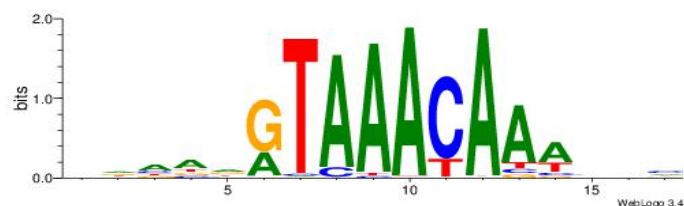


Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0026812

Alignment:
 HDHADGTAAACAAVVH
 ----WATAACAATH--

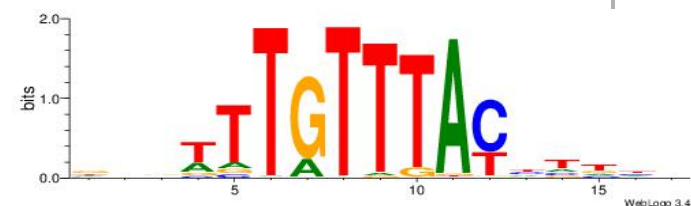
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00061](#)

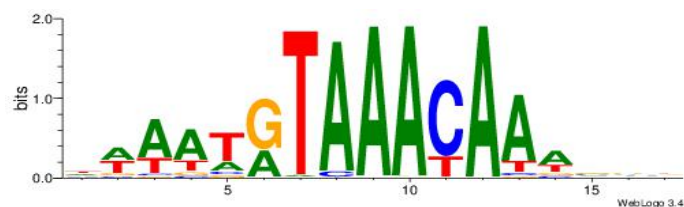
Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00280369

Alignment:

DWAATR TAAACA WVV B
 ----WATAACAATH--

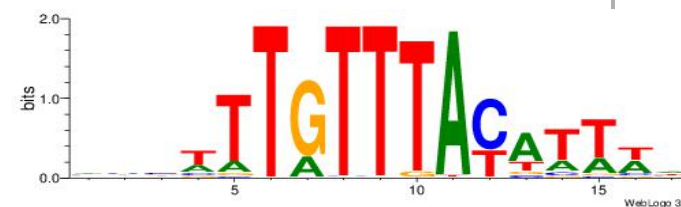
Original motif

Consensus sequence: DWAATR TAAACA WVV B



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 11

Similarity score: 0.00419331

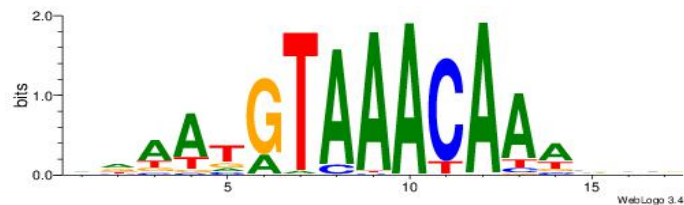
Alignment:

DDAATGTAAACAAAVVB

----WATAACAATH--

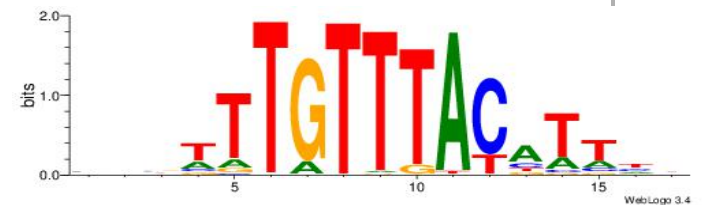
Original motif

Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTCACATDD



Motif ID: [UP00073](#)
Motif name: Foxa2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.00439236

Alignment:

HHWAWGTAAAYAAVDB

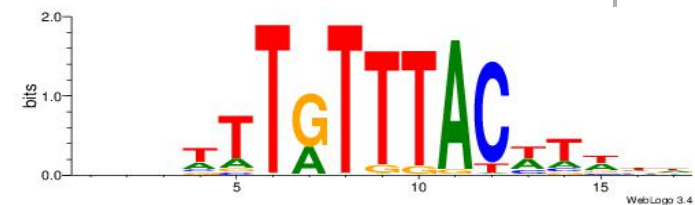
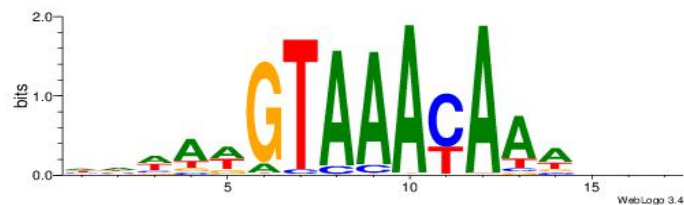
----WATAACAATH--

Original motif

Consensus sequence: HHWAWGTAAAYAAVDB

Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Dataset #: 3 Motif ID: 71 Motif name: Evi1

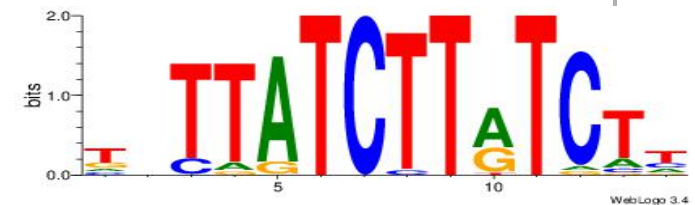
Original motif

Consensus sequence: AAGAYAAGATAABA



Reverse complement motif

Consensus sequence: TBTTATCTTMTCTT



Best Matches for Motif ID 71 (Highest to Lowest)

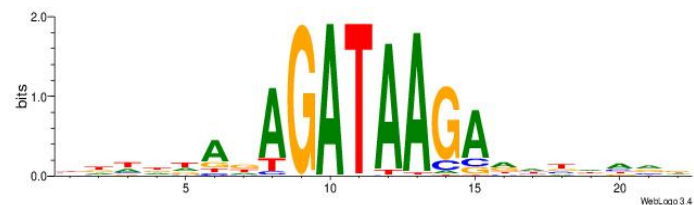
Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0

Alignment:

BDHDDADAGATAAGADHBDHVD
 -----AAGAYAAGATAABA--

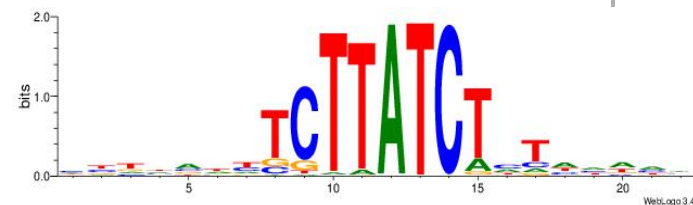
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID:	UP00170
Motif name:	Isl2
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:	0.0312075

Alignment:

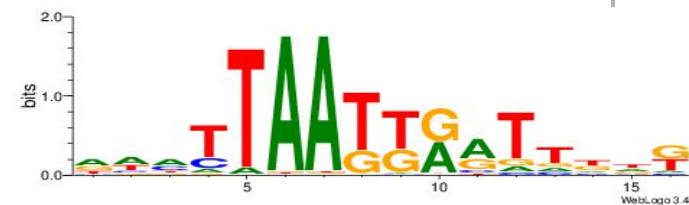
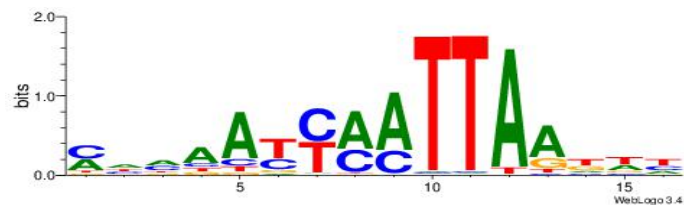
HWDTTAATYKMTTHHR
 -TBTTATCTTMTCTT-

Original motif

Consensus sequence: MHHAAYMATTAADWH

Reverse complement motif

Consensus sequence: HWDTTAATYKMTTHHR

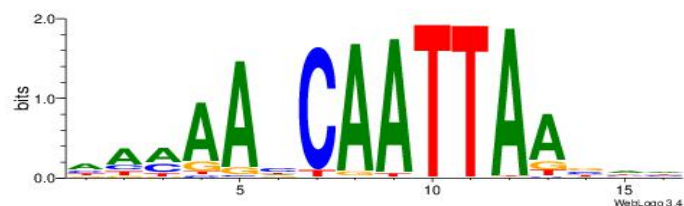


Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0314743

Alignment:
 HAMAAHCAATTAABHH
 -AAGAYAAGATAABA-

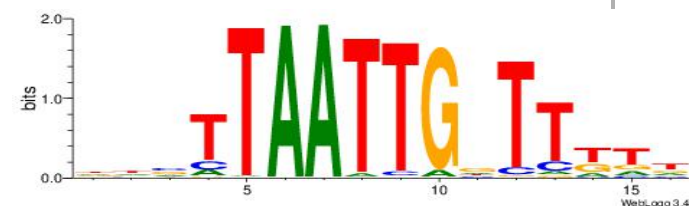
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTYTH



Motif ID: [UP00121](#)

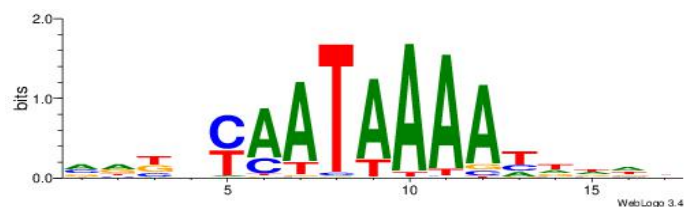
Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0322547

Alignment:

HDDDATTTTATTKVRDB
 TBTATCTTMTCTT---

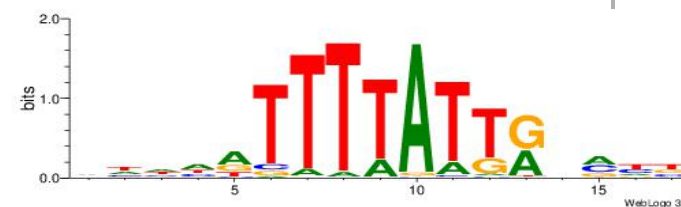
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

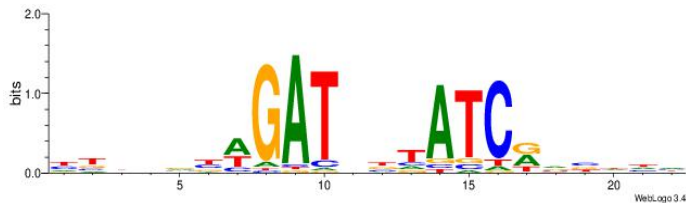


Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 14

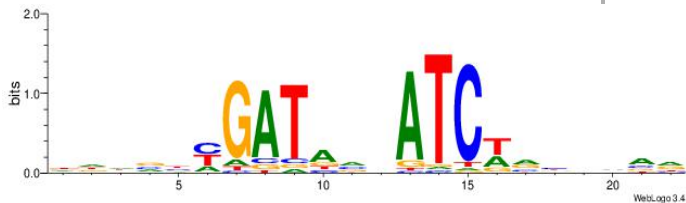
Similarity score: 0.0325491

Alignment:
HHHBBMGATAVHATCWVVDHVH
----AAGAYAAGATAABA-----

Original motif
Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Dataset #: 3 Motif ID: 72 Motif name: Nkx2-5

Original motif
Consensus sequence: WTAAKTG



Reverse complement motif
Consensus sequence: CARTTAW



Best Matches for Motif ID 72 (Highest to Lowest)

Motif ID: [UP00166](#)
Motif name: Barhl1
Species: Mus musculus
Matching format of first motif: Original Motif

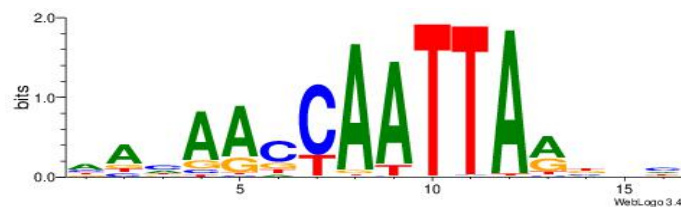
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	7
Similarity score:	0

Alignment:

```
DDVKTAATTGGTTDTH
---WTAAKTG-----
```

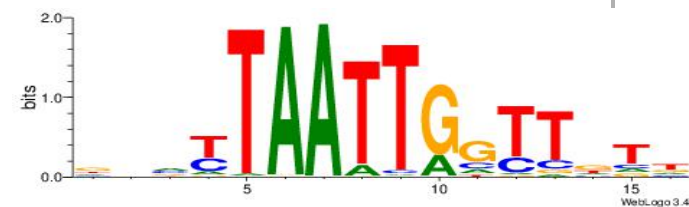
Original motif

Consensus sequence: HAHAAACCAATTARBDH



Reverse complement motif

Consensus sequence: DDVKTAATTGGTTDTH



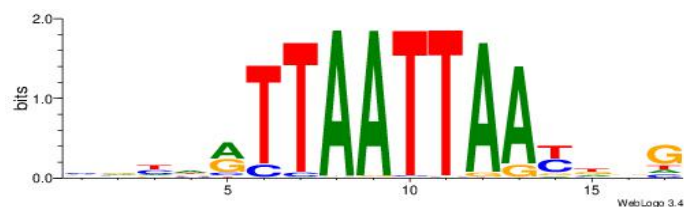
Motif ID:	UP00237
Motif name:	Otp
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	7
Similarity score:	0.00115905

Alignment:

VVHDRTTAATTAAYDDG
--CARTTAW-----

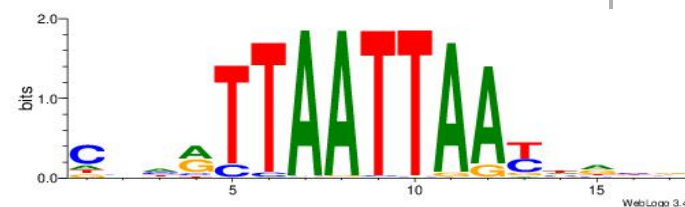
Original motif

Consensus sequence: VVHDRTTAATTAAYDDG



Reverse complement motif

Consensus sequence: CHDMTTAATTAAKDHVV



Motif ID:	UP00263
Motif name:	Hoxb8
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	7
Similarity score:	0.00141056

Alignment:

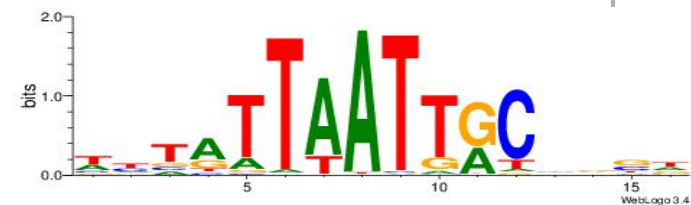
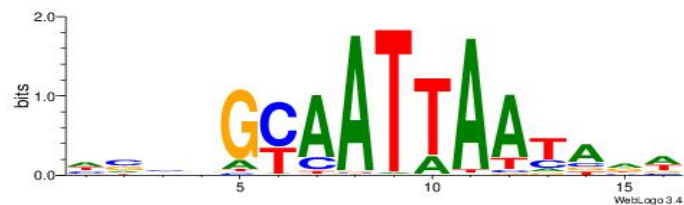
WDTATTAATTKCHBVH
----WTAAKTG-----

Original motif

Consensus sequence: HVBDGYAATTAATADW

Reverse complement motif

Consensus sequence: WDTATTAATTKCHBVH

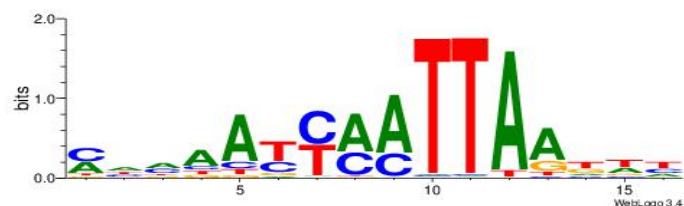


Motif ID: [UP00170](#)
 Motif name: Isl2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.00307472

Alignment:
 MHHAAYMATTAADWH
 -----CARTTAW---

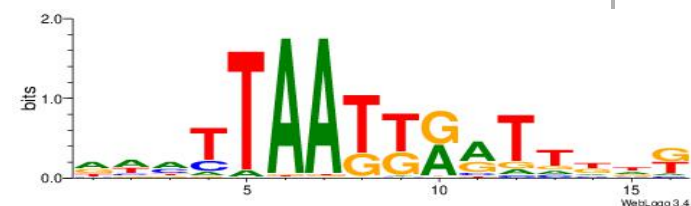
Original motif

Consensus sequence: MHHAAYMATTAADWH



Reverse complement motif

Consensus sequence: HWDTTAATYKMTTHHR



Motif ID: [UP00244](#)

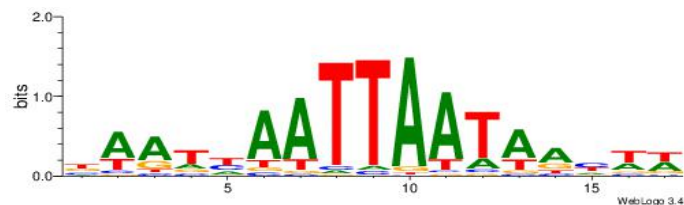
Motif name: Tlx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.00343945

Alignment:

BAATHAATTAATAAHWW
 ----CARTTAW-----

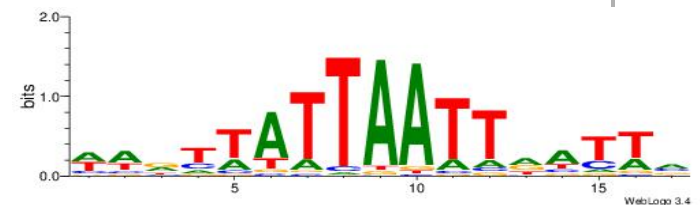
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



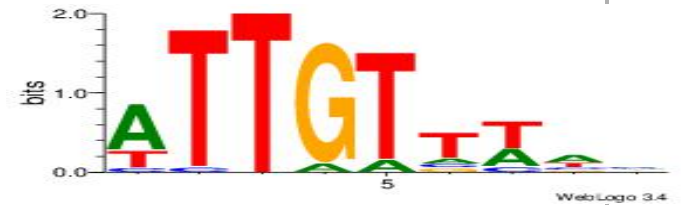
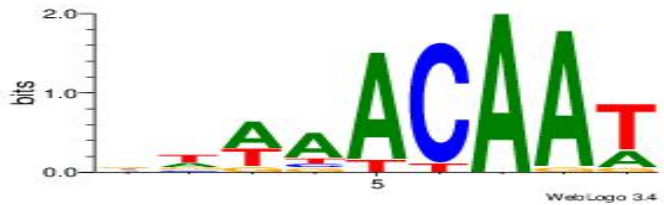
Dataset #: 3 Motif ID: 73 Motif name: SRY

Original motif

Consensus sequence: BDWAACAAT

Reverse complement motif

Consensus sequence: ATTGTTWDB



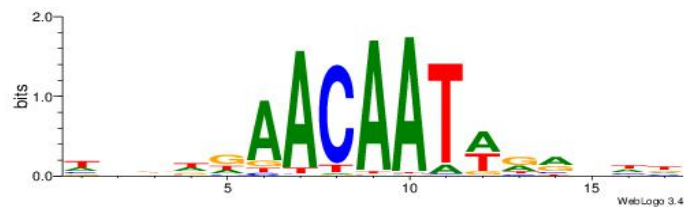
Best Matches for Motif ID 73 (Highest to Lowest)

Motif ID: [UP00075](#)
 Motif name: Sox15_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: 9
 Similarity score: 0

Alignment:
 HDDDDAACAATWRRBHD
 --BDWAACAAT-----

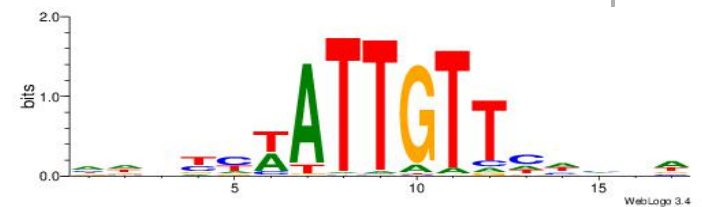
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



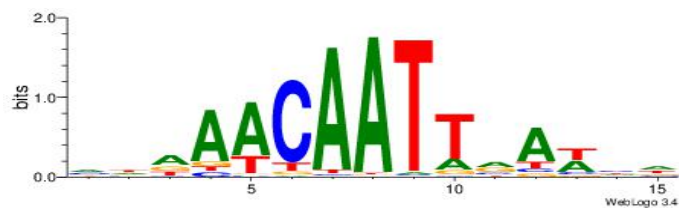
Motif ID: [UP00014](#)
 Motif name: Sox17_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 9
 Similarity score: 0.00043275

Alignment:

DDWTBAATTGTTDDB
 -----ATTGTTWDB

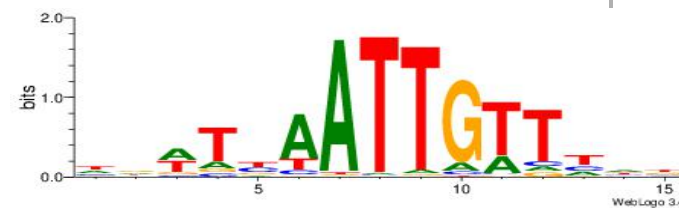
Original motif

Consensus sequence: VDDAACAATTVAWHD



Reverse complement motif

Consensus sequence: DDWTBAATTGTTDDB



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: 10

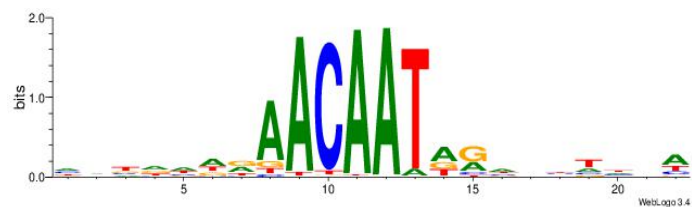
Number of overlap: 9
Similarity score: 0.00666345

Alignment:

HHBDHDDAACAATDRHHHHHBW
----BDWAACAAT-----

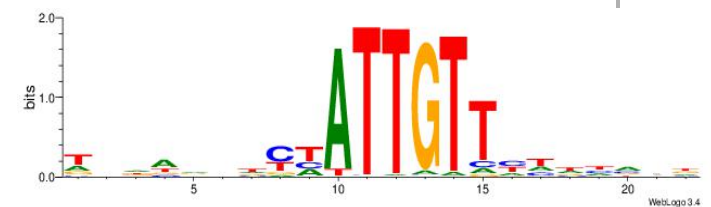
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



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: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.00942662

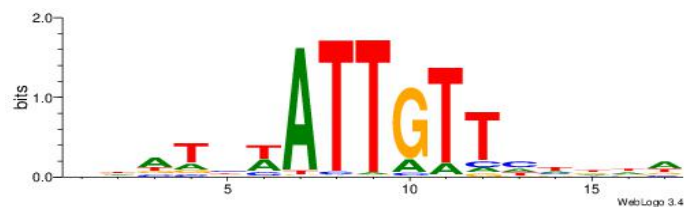
Alignment:

DDDHDAACAATWBATDD
--BDWAACAAT-----

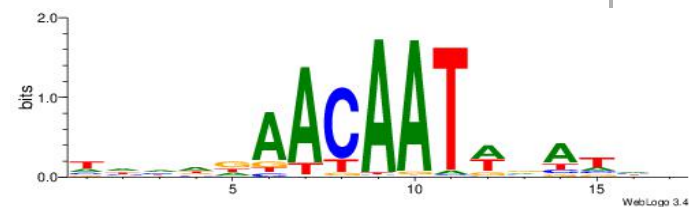
Original motif

Reverse complement motif

Consensus sequence: DDATBWATTGTTHHDDD



Consensus sequence: DDDHDAACAATWBATDD



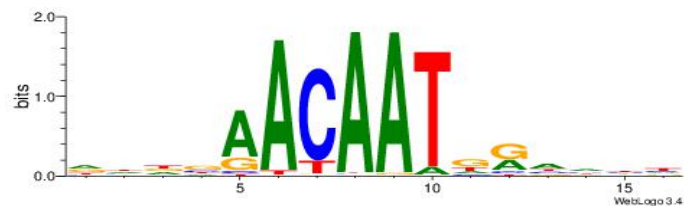
Motif ID: [UP00023](#)
Motif name: Sox30_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 9
Similarity score: 0.0107093

Alignment:

HHHHMHATTGTTBDHD
-----ATTGTTWDB-

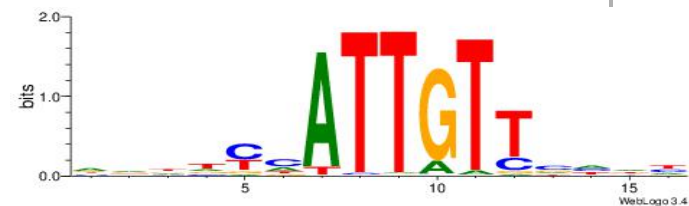
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

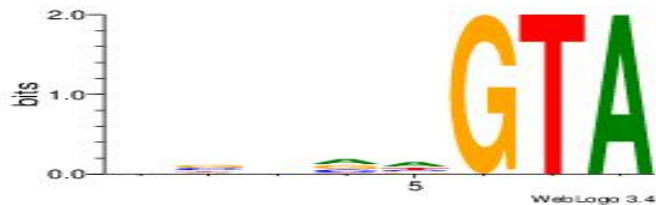
Consensus sequence: HHHHMHATTGTTBDHD



Dataset #: 3 **Motif ID: 74** **Motif name: FOXC1**

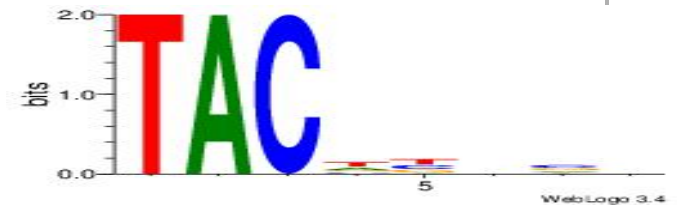
Original motif

Consensus sequence: VBHVHGTA



Reverse complement motif

Consensus sequence: TACHBHBV



Best Matches for Motif ID 74 (Highest to Lowest)

Motif ID:	UP00209
Motif name:	Cart1_1275.1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0185694

Alignment:

VHHVVTTAATTAADRVB

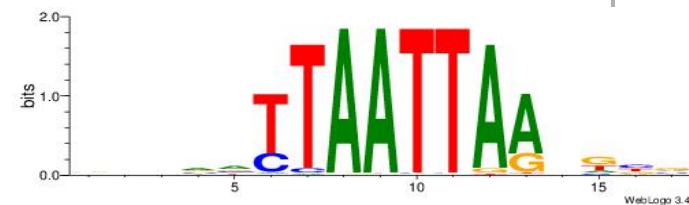
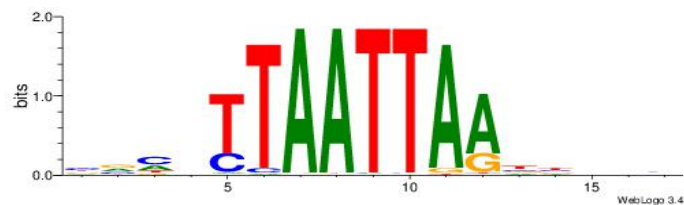
VBHVHGTA-----

Original motif

Consensus sequence: BVMDTTAATTAABBDDV

Reverse complement motif

Consensus sequence: VHHVVTTAATTAADRVB

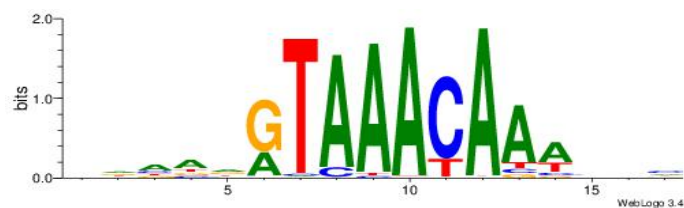


Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0207969

Alignment:
 DVVTTTGTTTACDTHDH
 -----TACHBHBV

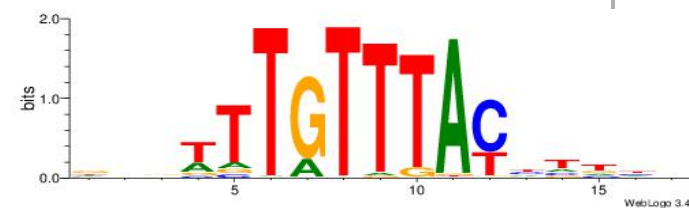
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00187](#)

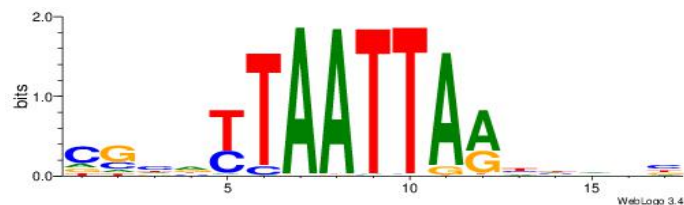
Motif name: Alx4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 10
 Number of overlap: 8
 Similarity score: 0.0208745

Alignment:

BVHHVKTAATTAMDDCG
 VBHVHGTA-----

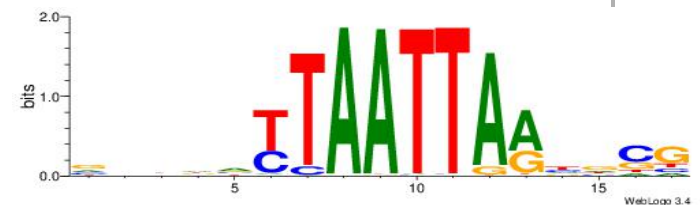
Original motif

Consensus sequence: CGHDYTAATTARBHHVB



Reverse complement motif

Consensus sequence: BVHHVKTAATTAMDDCG



Motif ID: [UP00257](#)
 Motif name: Shox2
 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: 8

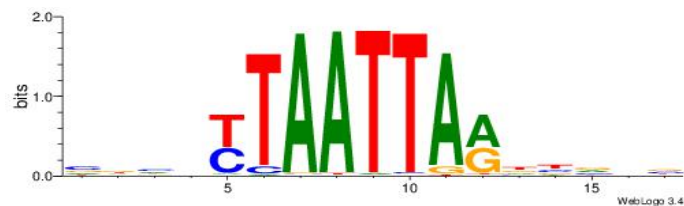
Similarity score: 0.0213263

Alignment:

BDVVDKTAATTAMVDHV
VBHVHGTA-----

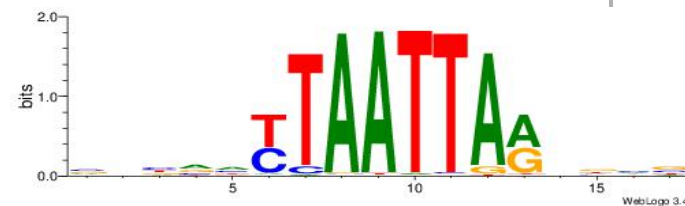
Original motif

Consensus sequence: VDHVYTAATTARDBVDB



Reverse complement motif

Consensus sequence: BDVVDKTAATTAMVDHV



Motif ID: [UP00088](#)
Motif name: Plagl1_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: 8
Similarity score: 0.0227422

Alignment:

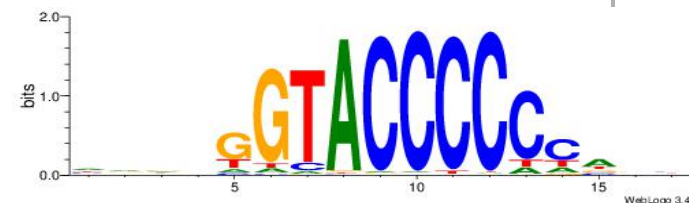
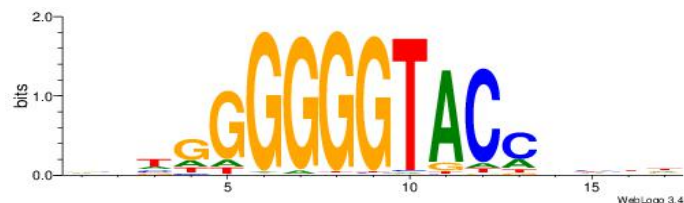
DHDDGGTACCCCCCHBH
-----TACHBHBV

Original motif

Consensus sequence: DBHGGGGGGTACCHHHD

Reverse complement motif

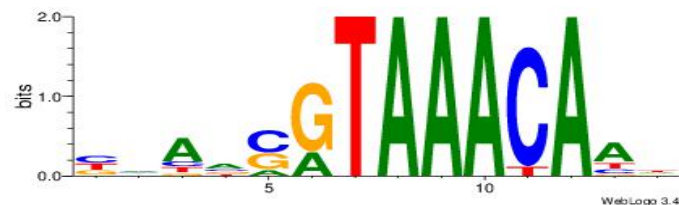
Consensus sequence: DHDDGGTACCCCCCHBH



Dataset #: 3 **Motif ID: 75** **Motif name: FOXF2**

Original motif

Consensus sequence: BHADSGTAAACAAD



Reverse complement motif

Consensus sequence: DTTGTTTACSBTBB



Best Matches for Motif ID 75 (Highest to Lowest)

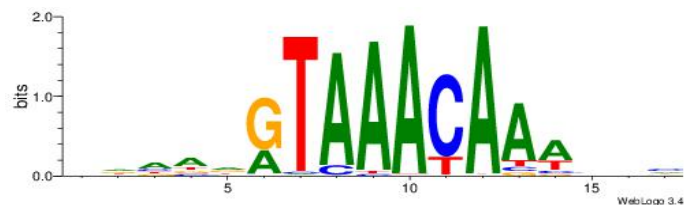
Motif ID:	UP00039
Motif name:	Foxj3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0

Alignment:

DVVT TTGTTTACDTHDH
---DTTGT TTACSBTBB

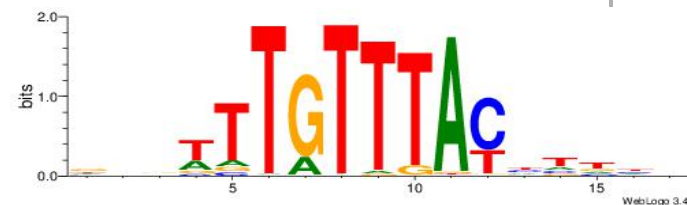
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVT TTGTTTACDTHDH



Motif ID:	UP00025
Motif name:	Foxk1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00393584

Alignment:

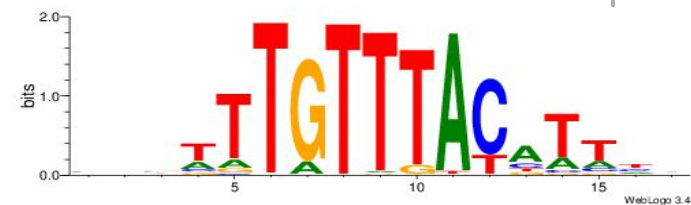
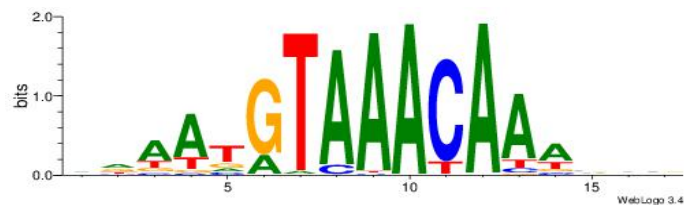
BBVTTTGT TTACATTDD
---DTTGT TTACSBTBB

Original motif

Consensus sequence: DDAATGTAAACAAVVH

Reverse complement motif

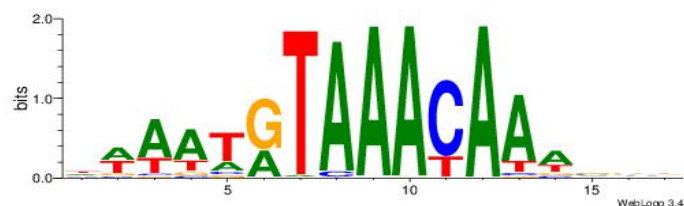
Consensus sequence: BBVTTTGT TTACATTDD



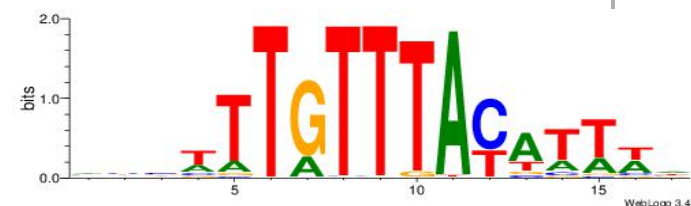
Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0108917

Alignment:
 DWAATRTAAACA WVV B
 BHADSGTAAACA D ---

Original motif
 Consensus sequence: DWAATRTAAACA WVV B



Reverse complement motif
 Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00073](#)

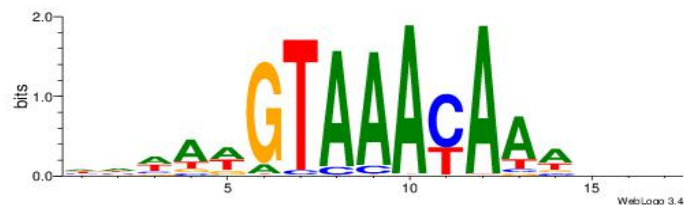
Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0118559

Alignment:

BDVTTTKTTTACWTWHH
 ---DTTGTTTACSBTBB

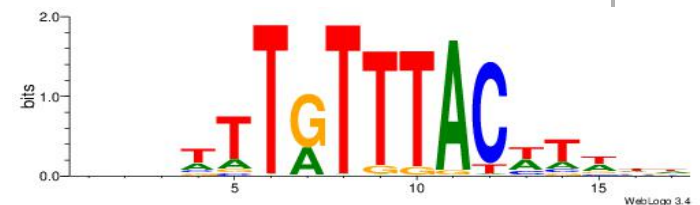
Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00012](#)
 Motif name: Bbx_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: 0.0389436

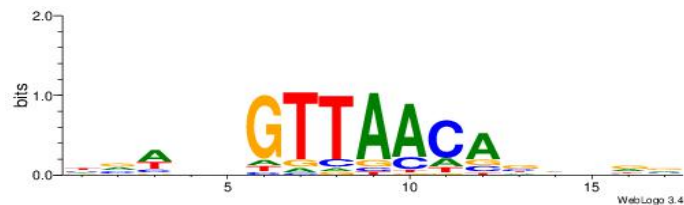
Alignment:

HVWHBGTTAACABHBDV

BHADSGTAAACAAD---

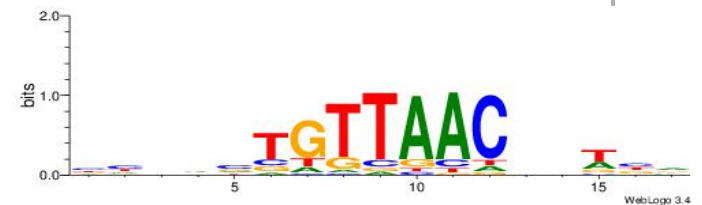
Original motif

Consensus sequence: HVWHBGTTAACABHBDV



Reverse complement motif

Consensus sequence: VHVHBTGTTAACVHWVH



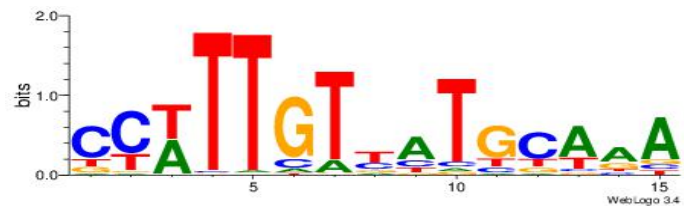
Dataset #: 3

Motif ID: 76

Motif name: Sox2

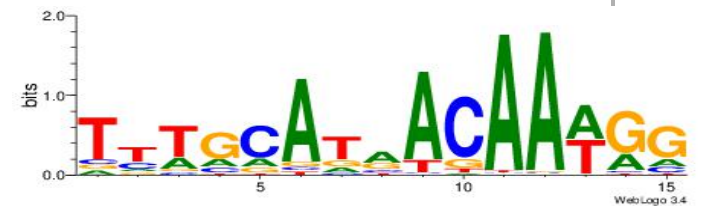
Original motif

Consensus sequence: CCWTTGTYATGCAAA



Reverse complement motif

Consensus sequence: TTTGCATMACAAWGG



Best Matches for Motif ID 76 (Highest to Lowest)

Motif ID:

[UP00039](#)

Motif name:

Foxj3_secondary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

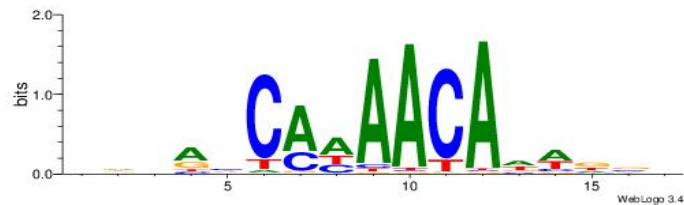
Original Motif

Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0330532

Alignment:
HDBAHCAWAACADWDVD
-TTTGCATMACAAWGG-

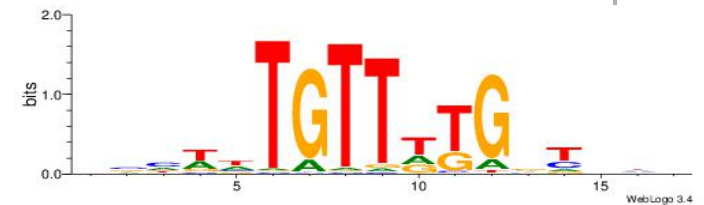
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



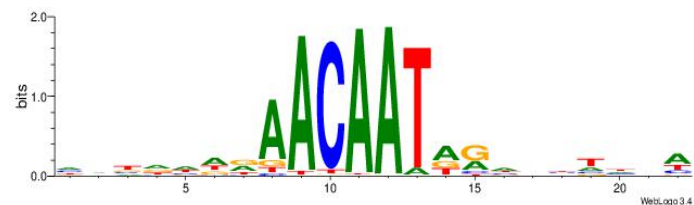
Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0360255

Alignment:

HHBDHDDAACAATDRHHHHHBW
TTTGCATMACAAWGG-----

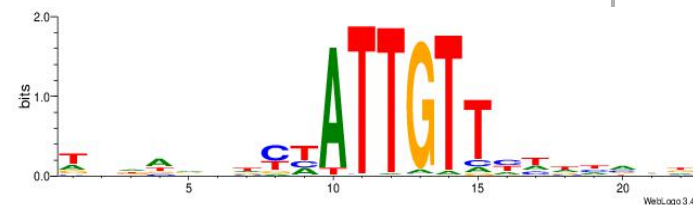
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID:	UP00061
Motif name:	Foxl1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0392872

Alignment:

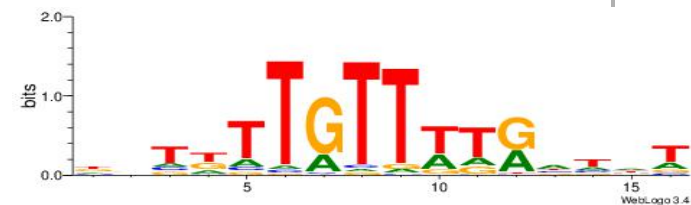
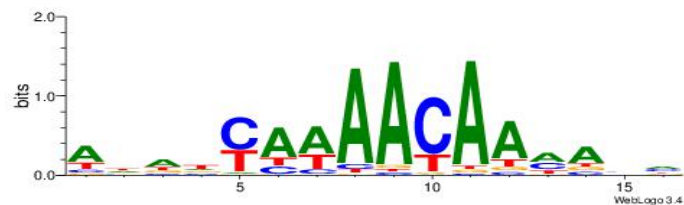
HDTYTTGTTWTKDDDT
-CCWTTGTYATGCAA

Original motif

Consensus sequence: ADDDYAWAACAAMAHH

Reverse complement motif

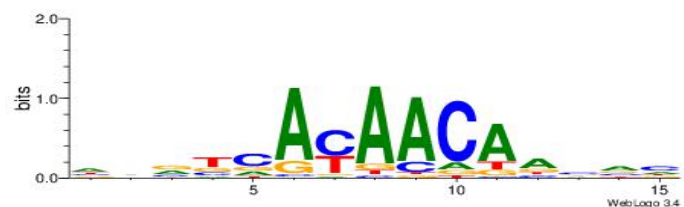
Consensus sequence: HDTYTTGTTWTKDDDT



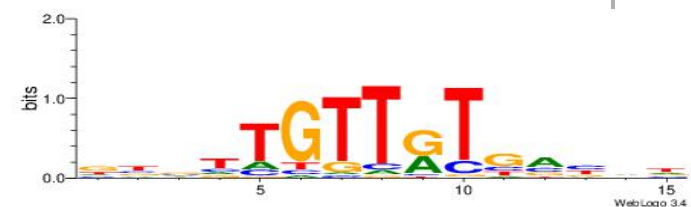
Motif ID: [UP00041](#)
 Motif name: Foxj1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.046424

Alignment:
 DBBTTGTTKTGVVH
 TTTGCATMACAAWGG

Original motif
 Consensus sequence: HBVBCAYAACAABVH



Reverse complement motif
 Consensus sequence: DBBTTGTTKTGVVH



Motif ID: [UP00077](#)
 Motif name: Srf_secondary

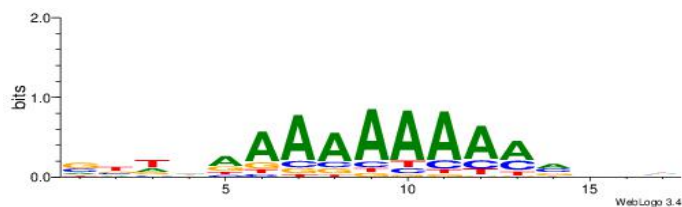
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0469262

Alignment:

HHVBYTTTTTTTTDDVV
 --CCWTTGTYATGCAAA

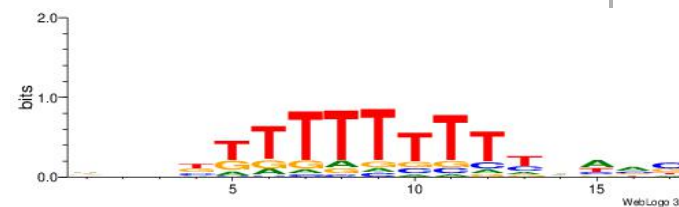
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



Dataset #: 3 **Motif ID: 77** **Motif name: Sox5**

Original motif

Consensus sequence: HAACAAT



Reverse complement motif

Consensus sequence: ATTGTT



Best Matches for Motif ID 77 (Highest to Lowest)

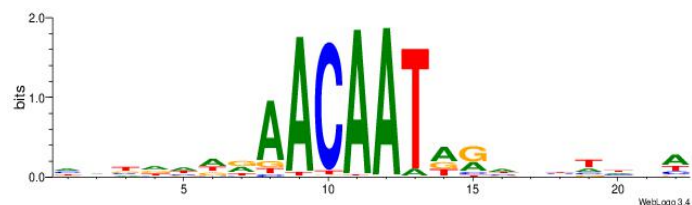
Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 7
Similarity score: 0

Alignment:

WBHHHHHMDATTGTTHDHDVHH
-----ATTGTTH-----

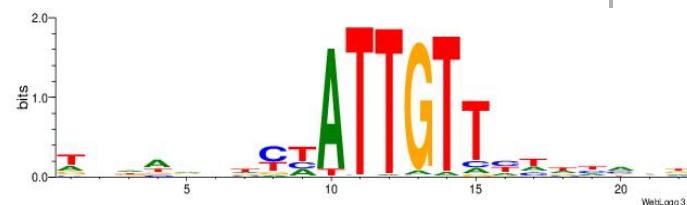
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



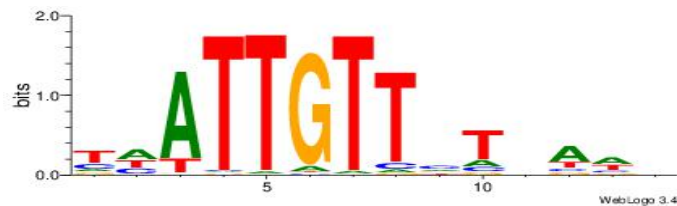
Motif ID: [UP00101](#)
Motif name: Sox12_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	7
Similarity score:	0.00575637

Alignment:
THATTGTTVTHAWH
--ATTGTTH-----

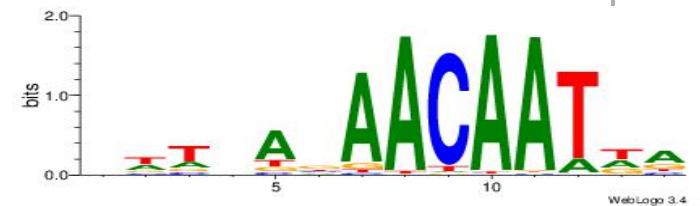
Original motif

Consensus sequence: THATTGTTVTHAWH



Reverse complement motif

Consensus sequence: DWTHAVAACAATHA



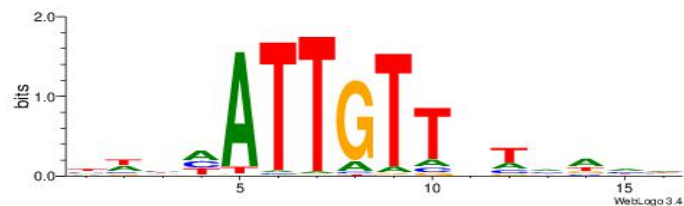
Motif ID:	UP00064
Motif name:	Sox18_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	7
Similarity score:	0.00689336

Alignment:

BWBHATTGTTBTHDHH
 ----ATTGTH-----

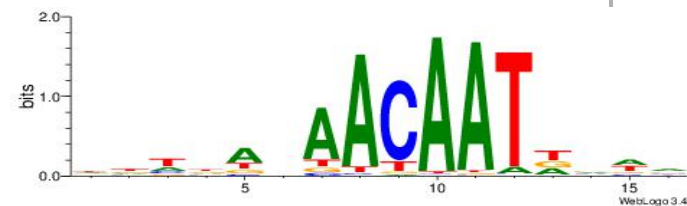
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



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:	7
Number of overlap:	7
Similarity score:	0.00793479

Alignment:

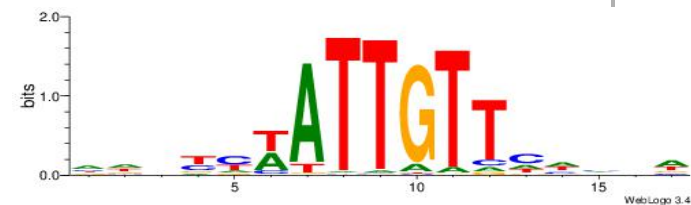
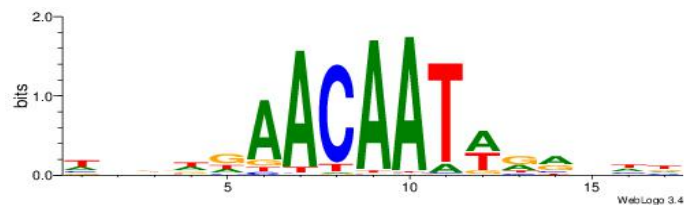
DHVKMWATTGTTHDHDH
 -----ATTGTH-----

Original motif

Consensus sequence: HDDDDAACAATWRRBHD

Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH

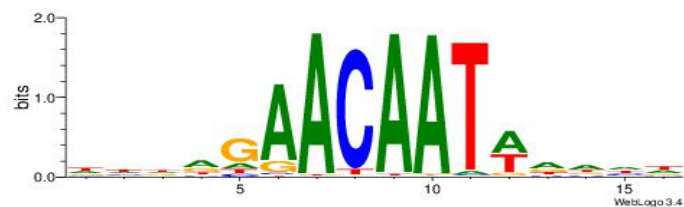


Motif ID: [UP00091](#)
 Motif name: Sox5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00811912

Alignment:
 DHDDWATTGTTTCDDHD
 -----ATTGTTH-----

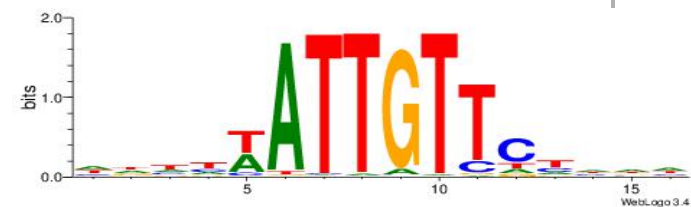
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTTCDDHD



Dataset #: 3 **Motif ID: 78** **Motif name: RORA_1**

Original motif

Consensus sequence: AWVDAGGTCA



Reverse complement motif

Consensus sequence: TGACCTDVWT



Best Matches for Motif ID 78 (Highest to Lowest)

Motif ID:	UP00009
Motif name:	Nr2f2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0154749

Alignment:

DHBHAAAGGTCAHVHB

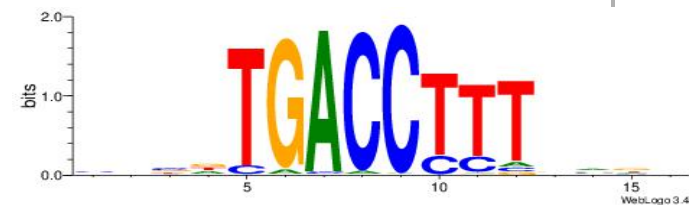
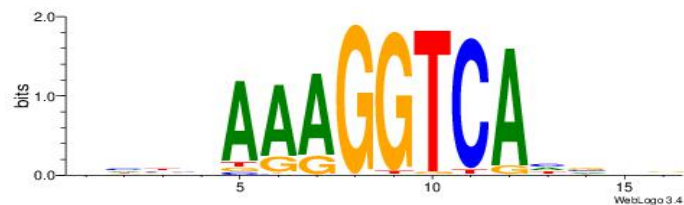
--AWVDAGGTCA----

Original motif

Consensus sequence: DHBHAAAGGTCAHVHB

Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD

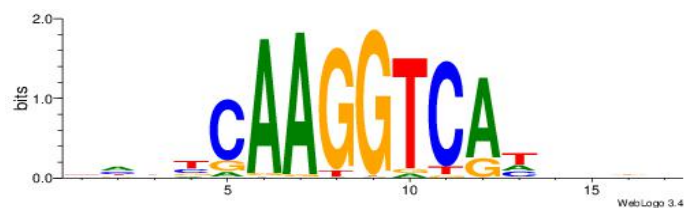


Motif ID: [UP00079](#)
 Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0176661

Alignment:
 HHBVHTGACCTTGVDHD
 -----TGACCTDVWT--

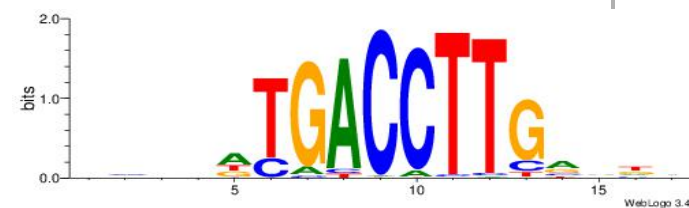
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID: [UP00048](#)

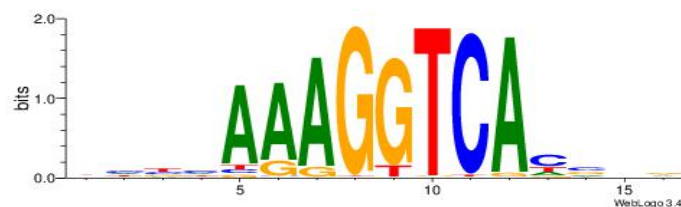
Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0189599

Alignment:

```
DHBHAAAGGTCACVHD
--AWVDAGGTCA----
```

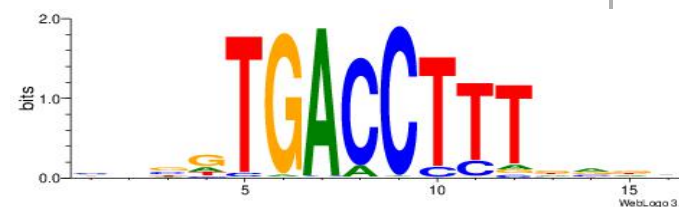
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



Motif ID:	UP00009
Motif name:	Nr2f2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0331999

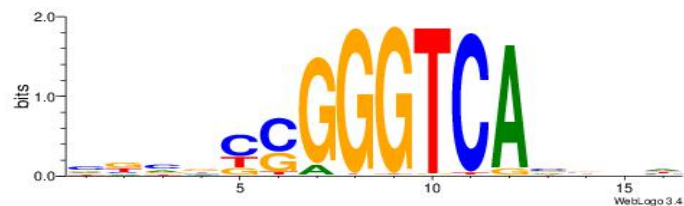
Alignment:

VBVBCSGGGTCAVBBH

--AWVDAGGTCA----

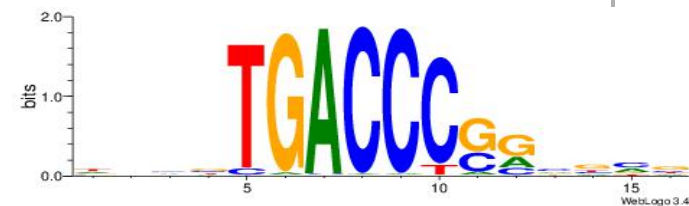
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00066](#)
Motif name: Hnf4a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0341771

Alignment:

BDBVMGGGGTCAABHDV

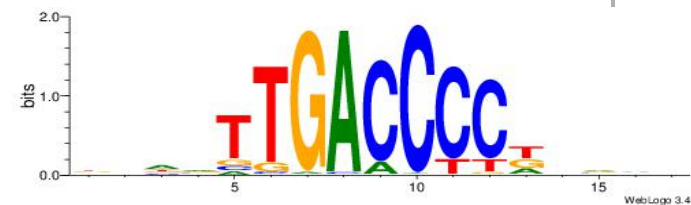
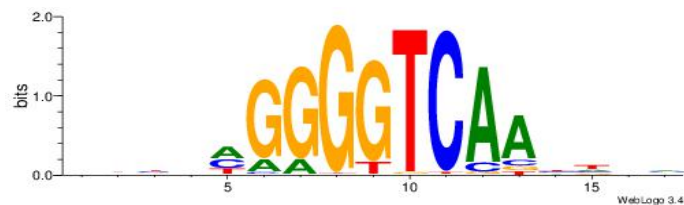
--AWVDAGGTCA-----

Original motif

Consensus sequence: BDBVMGGGGTCAABHDV

Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD



Dataset #: 3 **Motif ID: 79** **Motif name: Prrx2**

Original motif

Consensus sequence: AATTA



Reverse complement motif

Consensus sequence: TAATT



Best Matches for Motif ID 79 (Highest to Lowest)

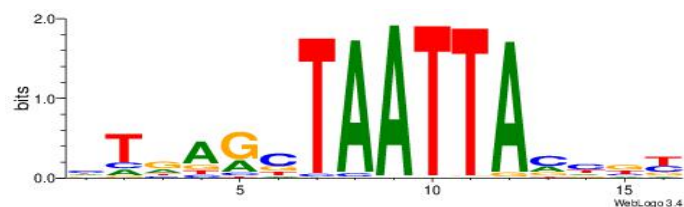
Motif ID:	UP00264
Motif name:	Hoxa1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	5
Similarity score:	0

Alignment:

HTDAGCTAATTAMHBY
 -----AATTA-----

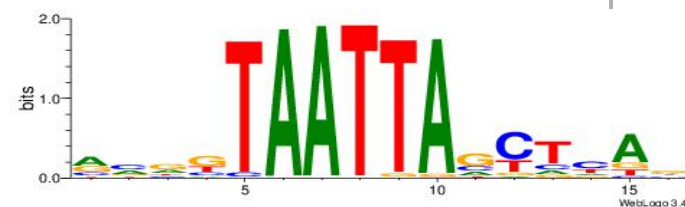
Original motif

Consensus sequence: HTDAGCTAATTAMHBY



Reverse complement motif

Consensus sequence: MBDRTAATTAGCTHAD



Motif ID:	UP00145
Motif name:	Barhl2
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:	5
Similarity score:	4.33852e-05

Alignment:

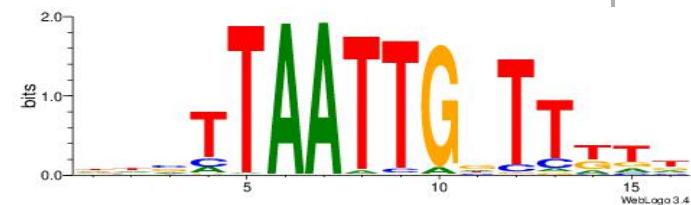
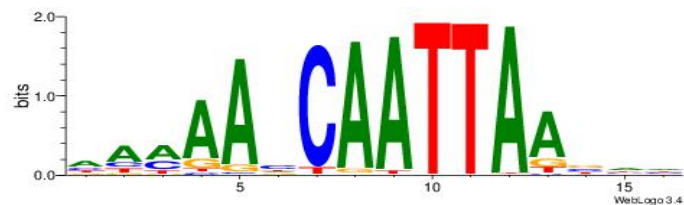
HHBTTAATTGDDTTYTH
 -----TAATT-----

Original motif

Consensus sequence: HMAAAHCAATTAABHH

Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH

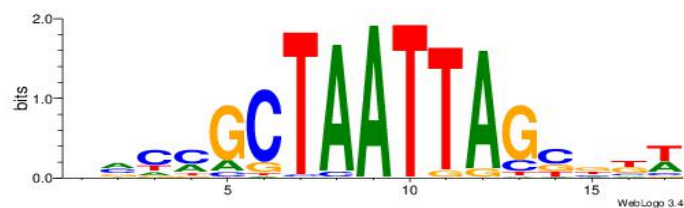


Motif ID: [UP00132](#)
 Motif name: Evx2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.000403033

Alignment:
 WRBGCTAATTAGCRGBB
 -----AATTA-----

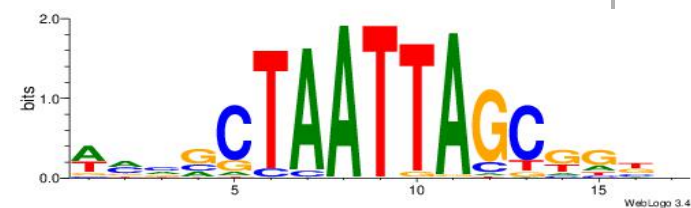
Original motif

Consensus sequence: BVCMGCTAATTAGCBKW



Reverse complement motif

Consensus sequence: WRBGCTAATTAGCRGBB



Motif ID: [UP00167](#)

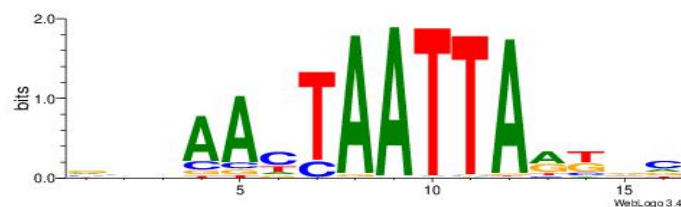
Motif name: En1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.000612413

Alignment:

VVVAACTAATTARKDV
 -----AATTA-----

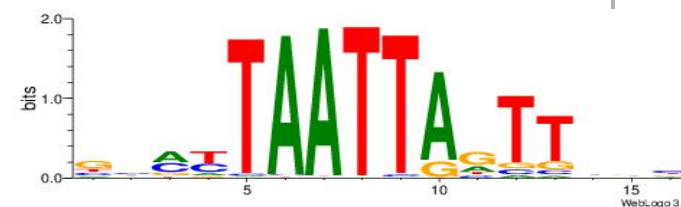
Original motif

Consensus sequence: VVVAACTAATTARKDV



Reverse complement motif

Consensus sequence: VHRKTAATTAGTTVV



Motif ID: [UP00171](#)
 Motif name: Msx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 5

Similarity score: 0.000838245

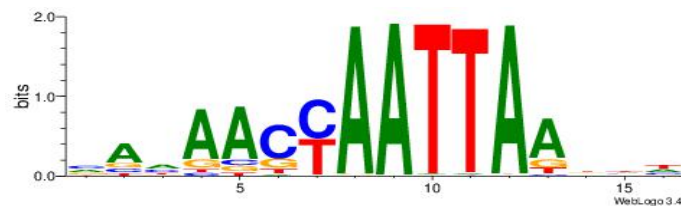
Alignment:

HHVTTAATTKGTTHTV

----TAATT-----

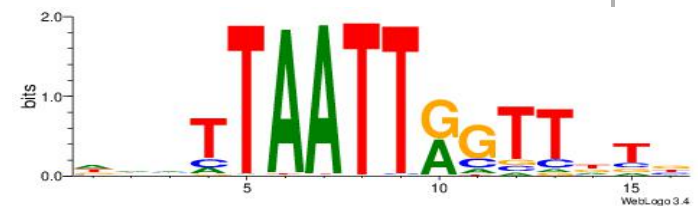
Original motif

Consensus sequence: VAHAACYAATTAABHH



Reverse complement motif

Consensus sequence: HHVTTAATTKGTTHTV



Dataset #: 3 **Motif ID: 80** **Motif name: Pou5f1**

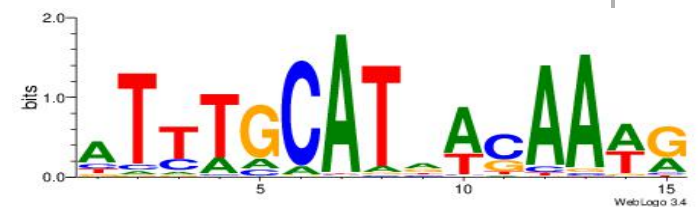
Original motif

Consensus sequence: CWTTGTHATGCAAAT



Reverse complement motif

Consensus sequence: ATTTGCATHACAAWG



Best Matches for Motif ID 80 (Highest to Lowest)

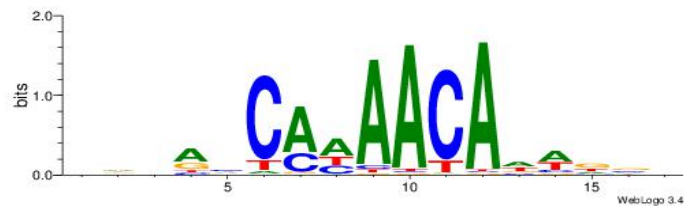
Motif ID:	UP00039
Motif name:	Foxj3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0376287

Alignment:
HDBAHCAWAACADWDVD
ATTTGCATHACAAWG--

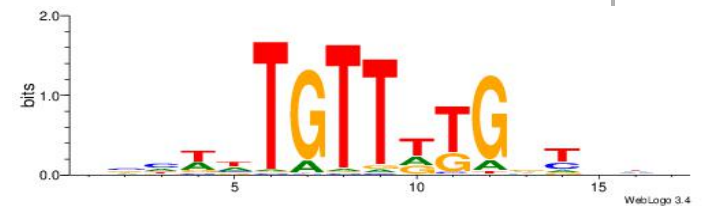
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



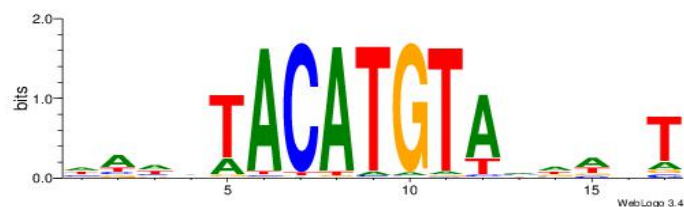
Motif ID:	UP00150
Motif name:	Irx6
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0420168

Alignment:

AHWDBTACATGTADHTH
-CWTGTHATGCAAAT-

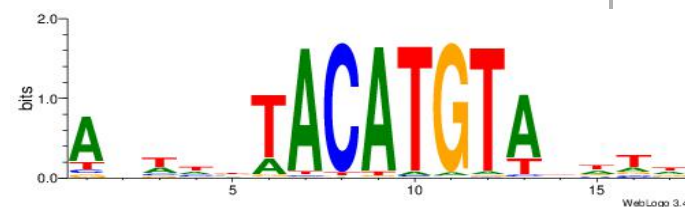
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



Motif ID:	UP00194
Motif name:	Irx4
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0420967

Alignment:

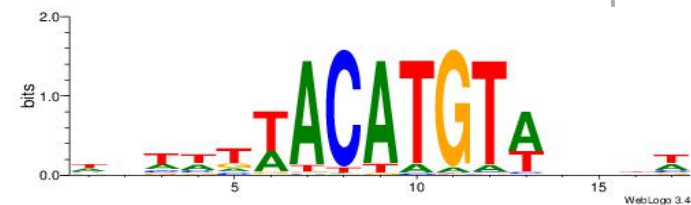
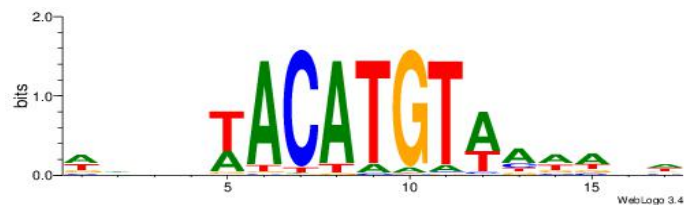
DBTWTWACATGTWDHDW
-CWTGTHATGCAAAT-

Original motif

Consensus sequence: WDHDWACATGTWAWABD

Reverse complement motif

Consensus sequence: DBTWTWACATGTWDHDW

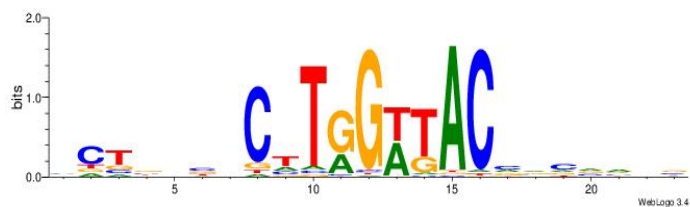


Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0432112

Alignment:
 BDBBVBVGTAWCCAAGVBHBAGB
 -ATTTGCATHACAAGW-----

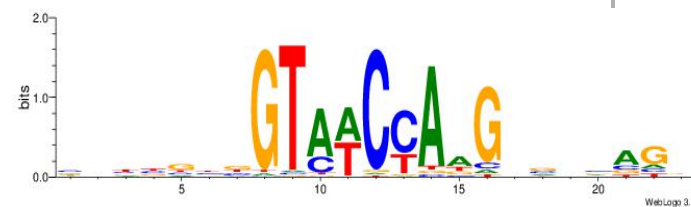
Original motif

Consensus sequence: VCTBHBVCTTGGWTACV VVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00250](#)

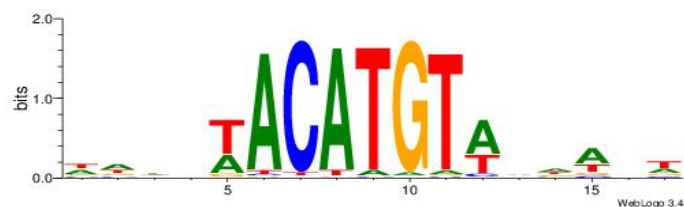
Motif name: Irx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0474325

Alignment:

WVT DHWACATGT WHDDD
 -C WTTGTHATGCAAAT-

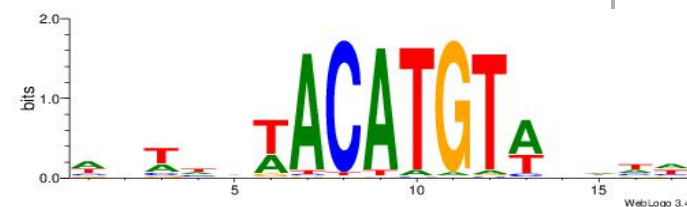
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVT DHWACATGT WHDDD



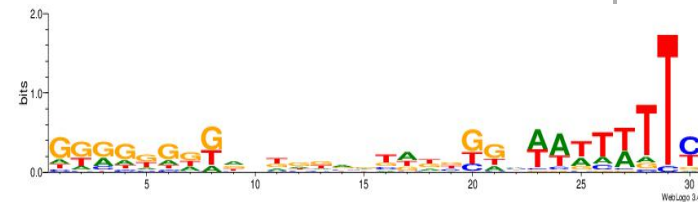
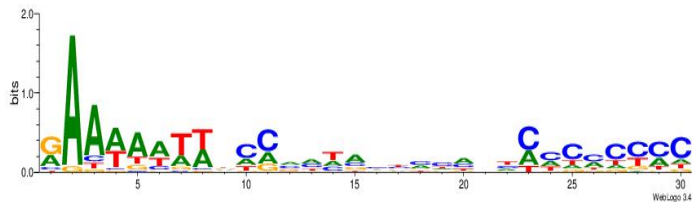
Dataset #: 3 Motif ID: 81 Motif name: Pax4

Original motif

Consensus sequence: RAAWAWTWDCMVHHVBBHHHVHMHCMCYMC

Reverse complement motif

Consensus sequence: GRKGRGDRHVHDDVBBHHBRGDW



Best Matches for Motif ID 81 (Highest to Lowest)

Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 23
 Similarity score: 0.0506561

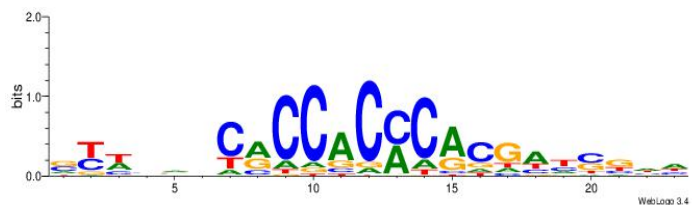
Alignment:

```

-----VYWVVHCRCCACMCACGAHSBHH
RAAWAWTWDCMVHHVBBHHHVHMHCMCYMC
  
```

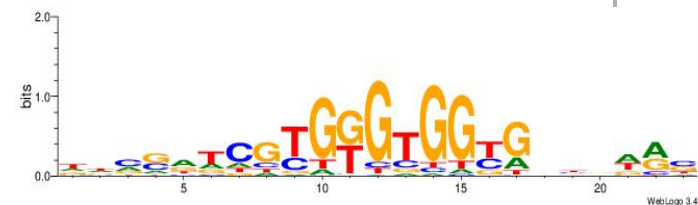
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



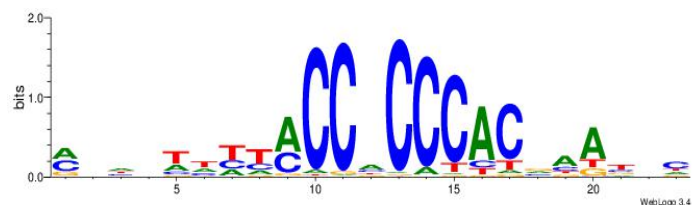
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 23
 Similarity score: 0.0526364

Alignment:

-----MHHHWHYTMCCCHCCCACVAABVH
 RAAAWA TWDCMVHHVBBHHHVHMHCMCYMC-----

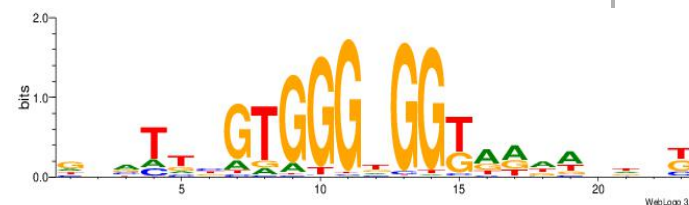
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

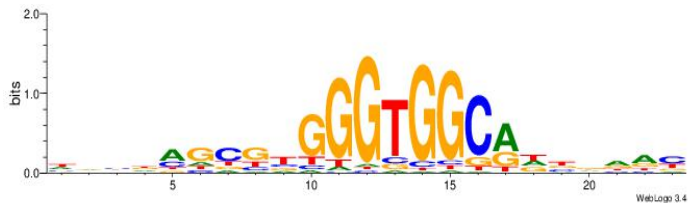


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 23

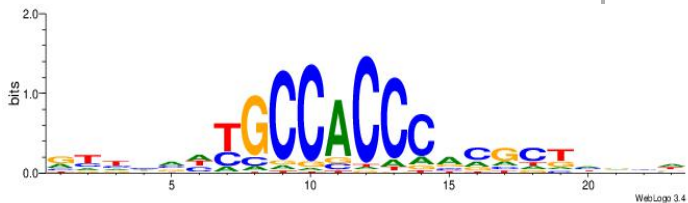
Similarity score: 0.0547526

Alignment:
-----BDDHVDKGCCACCCVCGCTDBVH
RAAWAWTWDCMVHHVBBHHHVHMHCMCYMC

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH

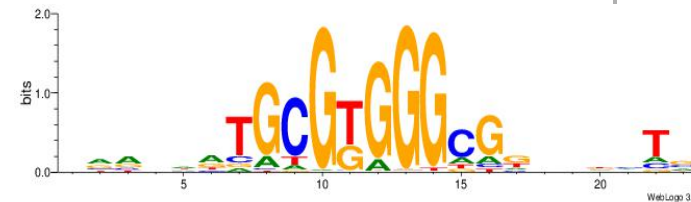
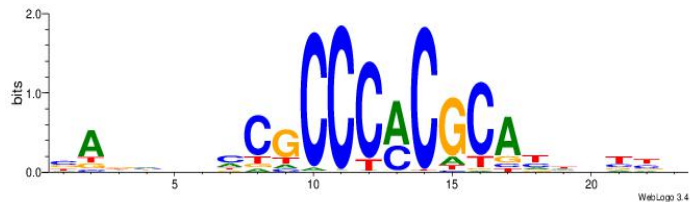


Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 23
Similarity score: 0.0550408

Alignment:
BADHBDHCGCCCMCGCAHHDDBV-----
---RAAWAWTWDCMVHHVBBHHHVHMHCMCYMC

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 23
 Similarity score: 0.0559551

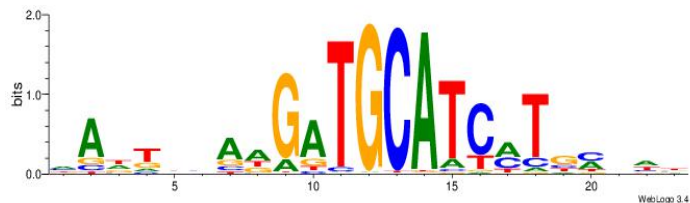
Alignment:

```

-----VHVRCAYGATGCATCDTVVADTH
GRKGRGDRHVHDDVBBHHBRGDWAWTWTM---
  
```

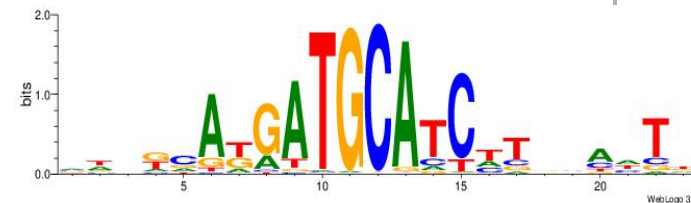
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

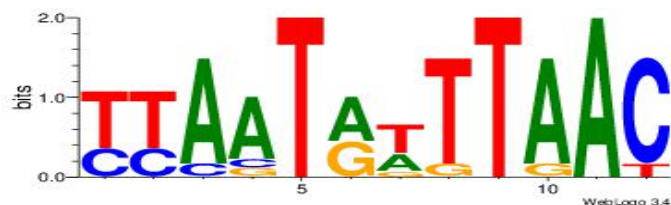
Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Dataset #: 3 **Motif ID: 82** **Motif name: HNF1B**

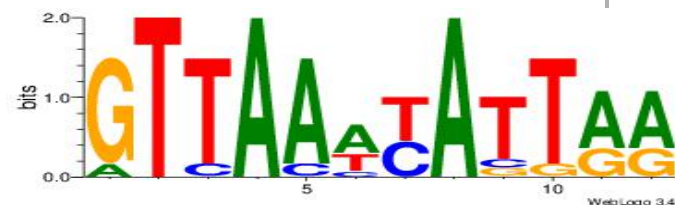
Original motif

Consensus sequence: TTAATRWTTAAC



Reverse complement motif

Consensus sequence: GTTAAWKATTAA



Best Matches for Motif ID 82 (Highest to Lowest)

Motif ID:	UP00196
Motif name:	Hoxa4
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:	0.00579799

Alignment:

CVRGTTAATTAATHADH

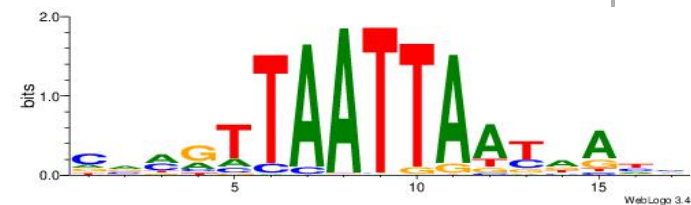
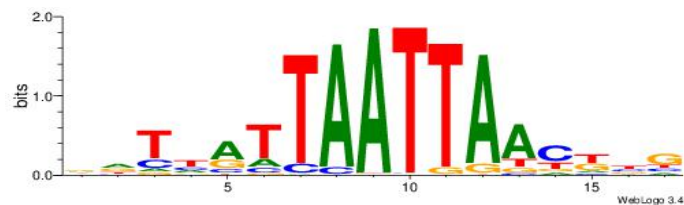
---GTTAAWKATTAA--

Original motif

Consensus sequence: DDTHATTAATTAACKBG

Reverse complement motif

Consensus sequence: CVRGTTAATTAATHADH

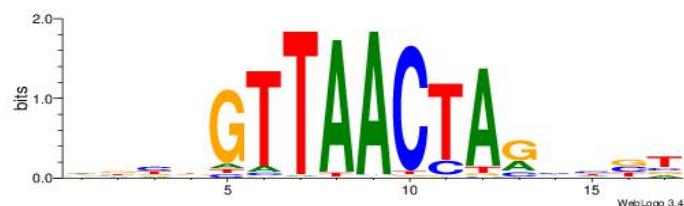


Motif ID: [UP00222](#)
 Motif name: Tcf2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0172357

Alignment:
 ABDBCTAGTTAACVBBD
 -TTAATRWTTAAC----

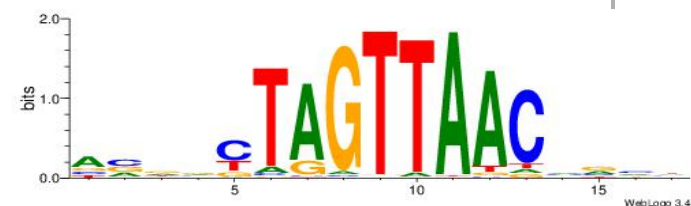
Original motif

Consensus sequence: DBBBGTAACTAGBHBT



Reverse complement motif

Consensus sequence: ABDBCTAGTTAACVBBD



Motif ID: [UP00237](#)

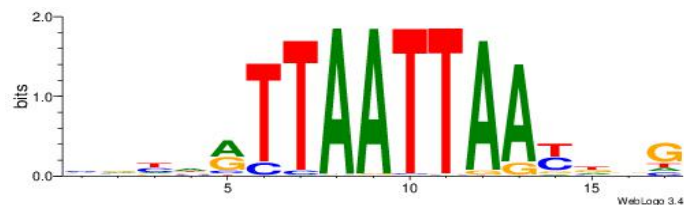
Motif name: Otp
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0183959

Alignment:

VVHDRTTAATTAAYDDG
 --TTAATRWTTAAC---

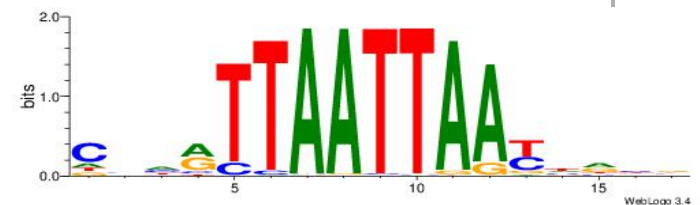
Original motif

Consensus sequence: VVHDRTTAATTAAYDDG



Reverse complement motif

Consensus sequence: CHDMTTAATTAAKDHVV



Motif ID: [UP00144](#)
 Motif name: Hoxb4
 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: 0.0185132

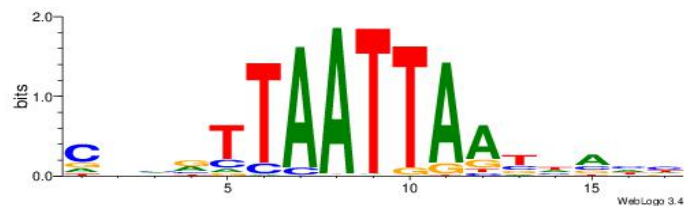
Alignment:

DDTHATTAATTAAMDVG

--TTAATRWTTAAC---

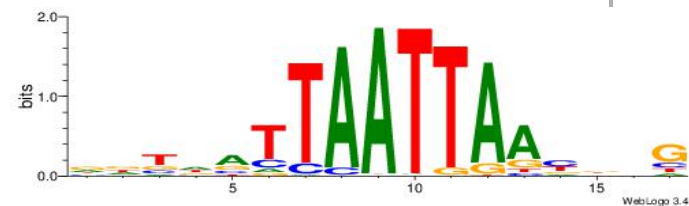
Original motif

Consensus sequence: CVHRTTAATTAATHAH



Reverse complement motif

Consensus sequence: DDTHATTAATTAAMDVG



Motif ID: [UP00141](#)
Motif name: Vsx1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0190281

Alignment:

CVHRTTAATTAAHDAHB

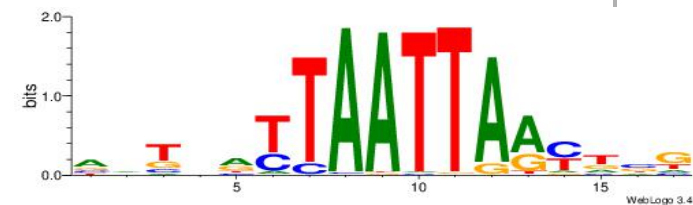
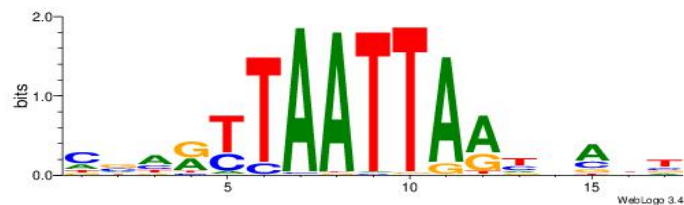
---GTAAWKATTAA--

Original motif

Consensus sequence: CVHRTTAATTAAHDAHB

Reverse complement motif

Consensus sequence: VHTDHTTAATTAAMHVG



Dataset #: 3 Motif ID: 83 Motif name: NR2F1

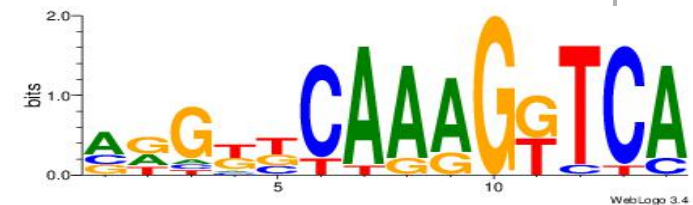
Original motif

Consensus sequence: TGAMCTTTGMMCYT



Reverse complement motif

Consensus sequence: AKGYCAAAGRTCA



Best Matches for Motif ID 83 (Highest to Lowest)

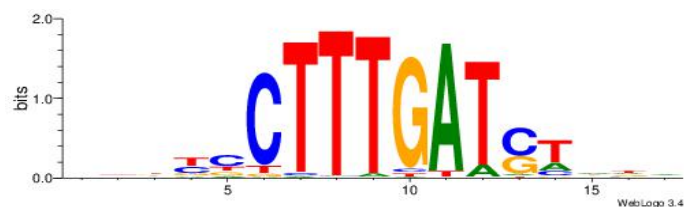
Motif ID:	UP00083
Motif name:	Tcf7l2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0452364

Alignment:

DDDYCCTTTGATSTDDV
-TGAMCTTTGMMCYT--

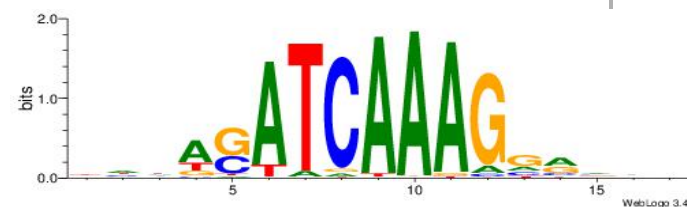
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



Motif ID:	UP00067
Motif name:	Lef1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0453449

Alignment:

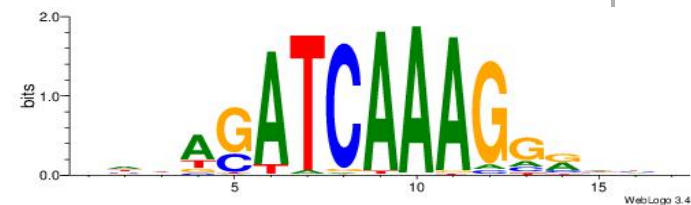
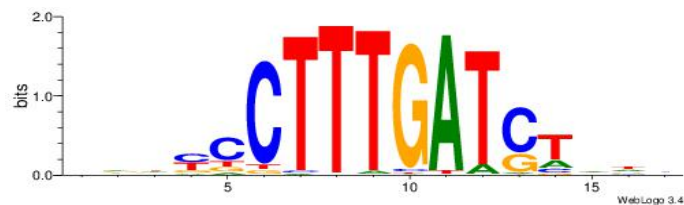
VDDAGATCAAAGGKDDD
--AKGY YCAAAGRTCA-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

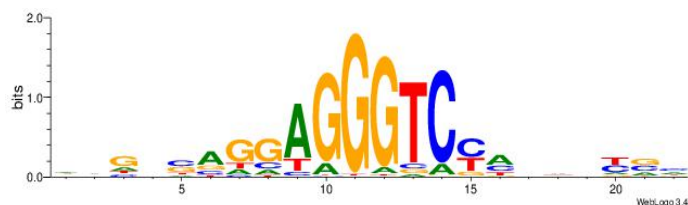


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 14
 Similarity score: 0.0461358

Alignment:
 DVMHHDHKGACCCTCCTSVCBH
 -----TGAMCTTTGMMCYT-

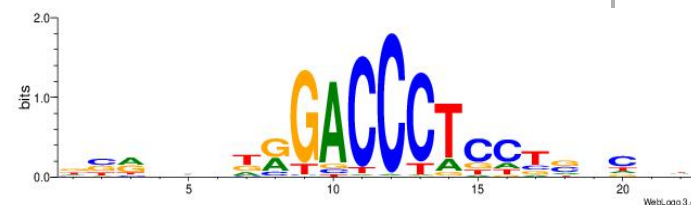
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00054](#)

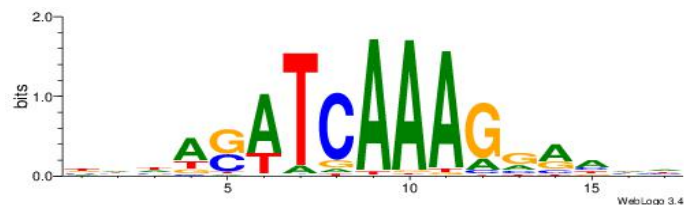
Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0461768

Alignment:

BHHASATCAAAGGAHHH
 --AKGYCAAAGRTCA--

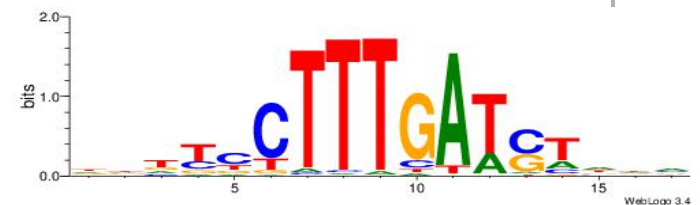
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14

Similarity score: 0.0473628

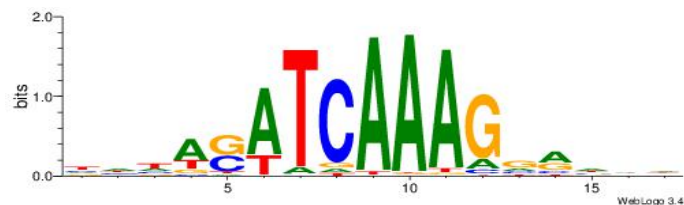
Alignment:

HHHASATCAAAGVRHHH

--AKGYTCAAAGRTCA--

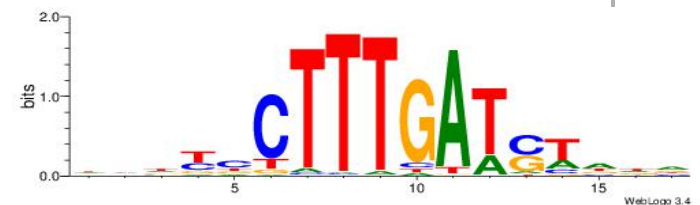
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

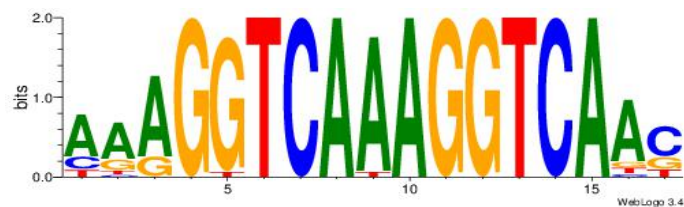
Consensus sequence: HHHKVCTTTGATSTHHH



Dataset #: 3 **Motif ID: 84** **Motif name: NR1H2RXRA**

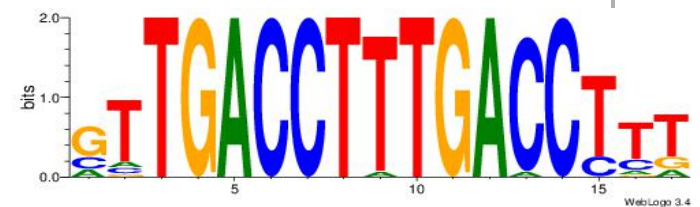
Original motif

Consensus sequence: AAAGGTCAAAGGTCAAC



Reverse complement motif

Consensus sequence: GTTGACCTTTGACCTTT



Best Matches for Motif ID 84 (Highest to Lowest)

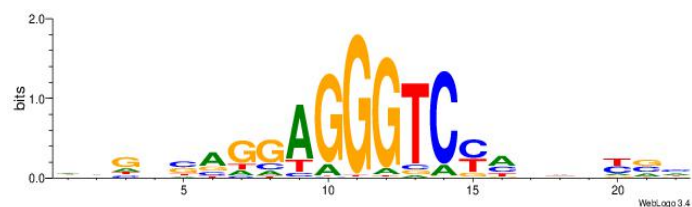
Motif ID:	UP00539
Motif name:	Gli2_v015681_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0538452

Alignment:
DVMHHDHKGACCCTCCTSVCBH
-----GTTGACCTTTGACCTTT

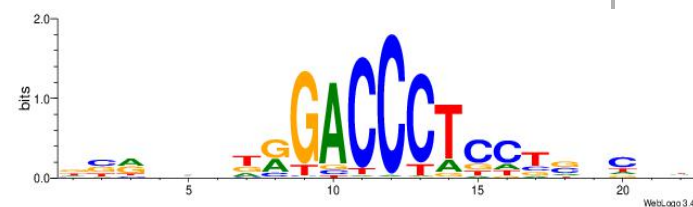
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

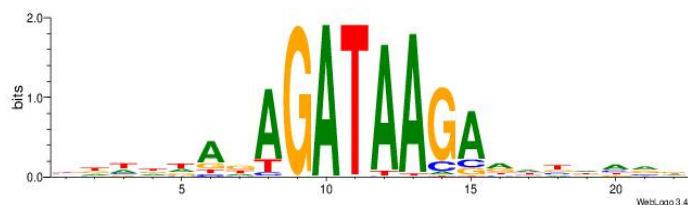


Motif ID: [UP00032](#)
Motif name: Gata3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0545098

Alignment:
BDHDDADAGATAAGADHBDHVD
-----AAAGGTCAAAGGTCAAC

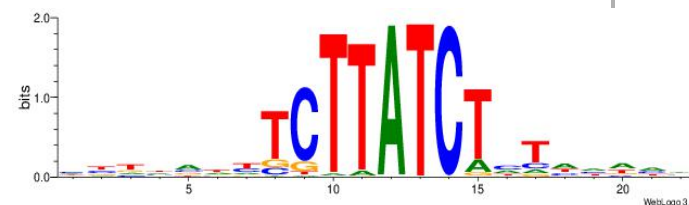
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHVD



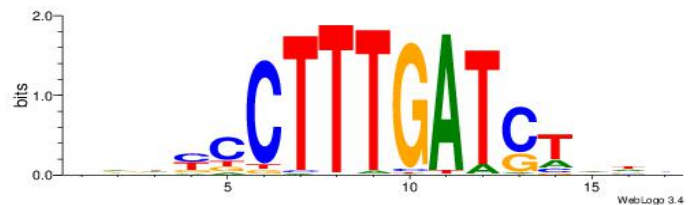
Motif ID: [UP00067](#)
Motif name: Lef1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.521114

Alignment:

VDDAGATCAAAGGKDDD-
-AAAGGTCAAAGGTCAAC

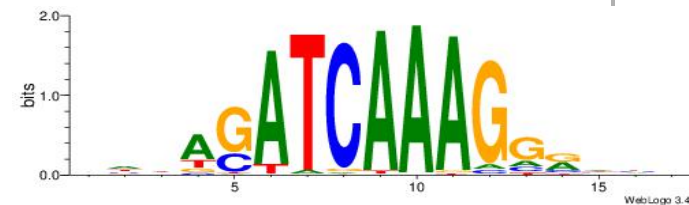
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

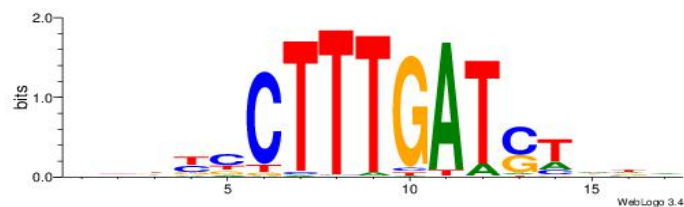


Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.527825

Alignment:
 BDDASATCAAAGGMDDD-
 -GTTGACCTTTGACCTTT

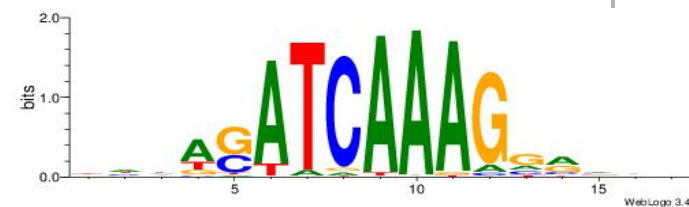
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



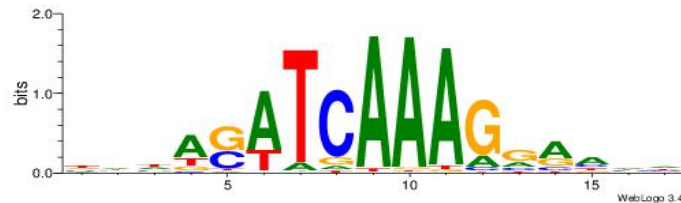
Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.531154

Alignment:

–BHHASATCAAAGGAHHH
AAAGGTCAAAGGTCAAC–

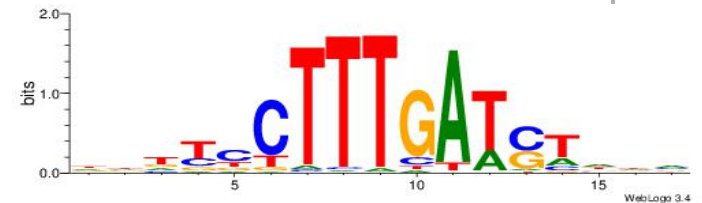
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Dataset #: 3

Motif ID: 85

Motif name: Nobox

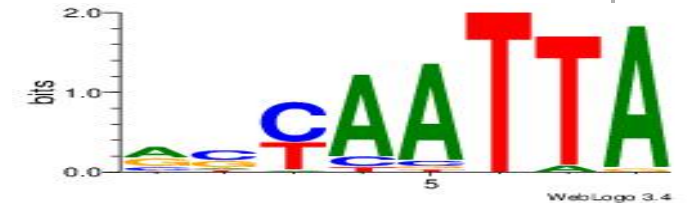
Original motif

Consensus sequence: TAATTRSY



Reverse complement motif

Consensus sequence: MSMAATTA



Best Matches for Motif ID 85 (Highest to Lowest)

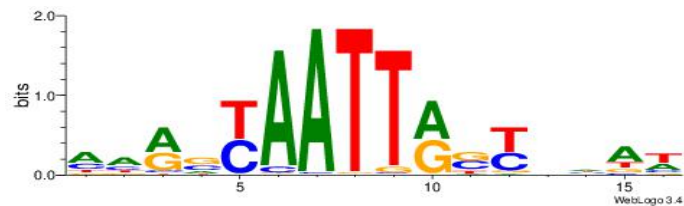
Motif ID:	UP00181
Motif name:	Barx1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0

Alignment:
 MHRVYAATTRSYPDHW
 ----TAATTSY----

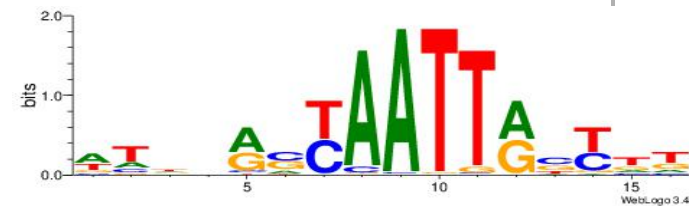
Original motif

Consensus sequence: MHRVYAATTRSYPDHW



Reverse complement motif

Consensus sequence: WTHHMSKAATTMVKHY



Motif ID: [UP00124](#)
 Motif name: Ipf1
 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: 0.000478222

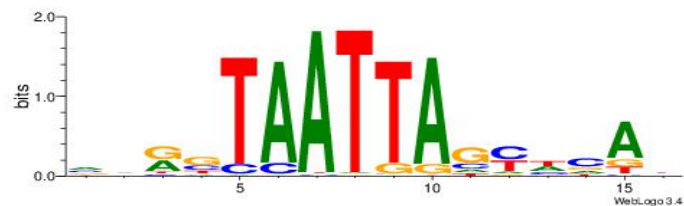
Alignment:

VVRBTAATTAGYHCAD

-----TAATTRS-----

Original motif

Consensus sequence: VVRBTAATTAGYHCAD



Reverse complement motif

Consensus sequence: DTGHKCTAATTABMBB



Motif ID:	UP00166
Motif name:	Barhl1
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:	0.00170663

Alignment:

HAHAACCAATTARBDH

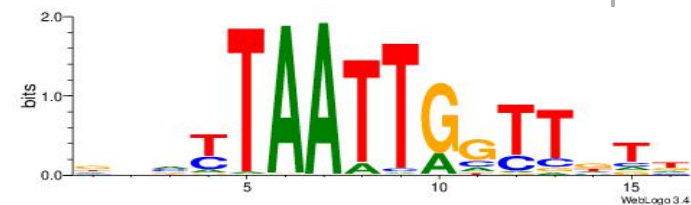
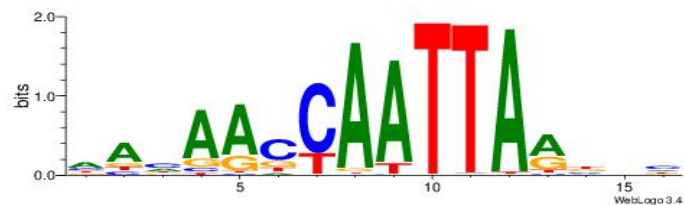
-----MSMAATTA-----

Original motif

Consensus sequence: HAHAACCAATTARBDH

Reverse complement motif

Consensus sequence: DDVKAATTGGTTDTH

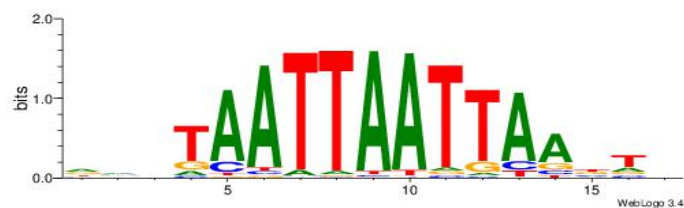


Motif ID: [UP00129](#)
 Motif name: Pou3f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.00260091

Alignment:
 DAVTTAATTAATTAVBD
 -----TAATTSY-

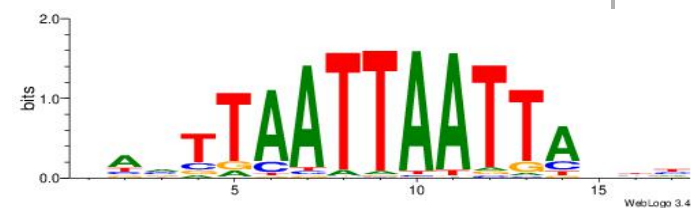
Original motif

Consensus sequence: DVBTAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



Motif ID: [UP00200](#)

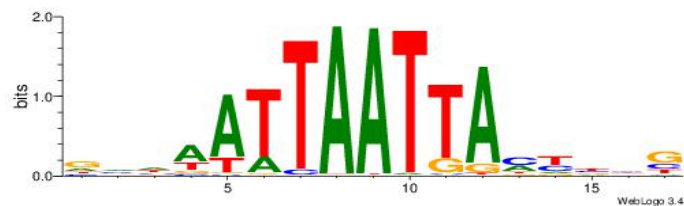
Motif name: Nkx6-1_2825.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00284029

Alignment:

DVHAATTAATTAMYBBG
 -----TAATTSY---

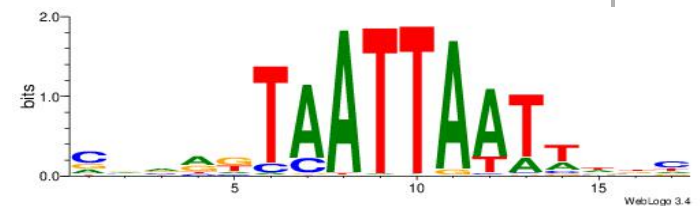
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



Dataset #: 3 Motif ID: 86 Motif name: FOX03

Original motif

Consensus sequence: KGTAACA

Reverse complement motif

Consensus sequence: TGTTACR



Best Matches for Motif ID 86 (Highest to Lowest)

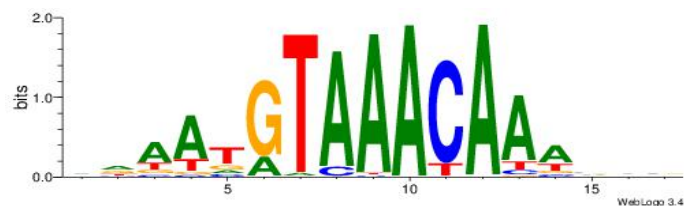
Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0

Alignment:

DDAATGTAAACAAAVVB
 -----KGTAACA-----

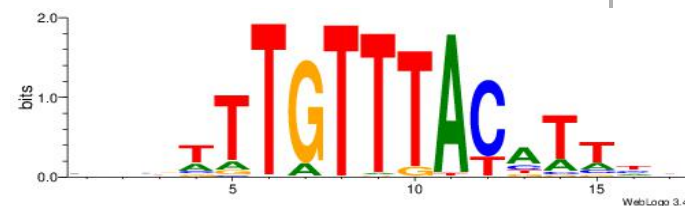
Original motif

Consensus sequence: DDAATGTAAACAAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



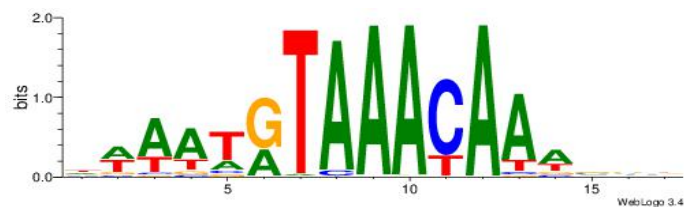
Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00864258

Alignment:

VVVWTTGTTTAMATTWD
 -----TGTTTACR-----

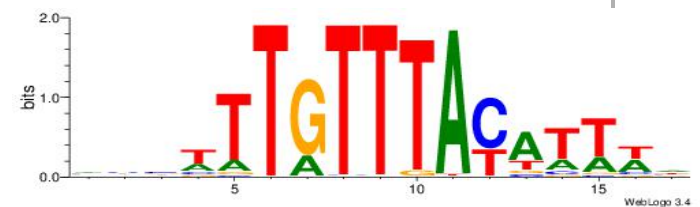
Original motif

Consensus sequence: DWAATRTAAACAAWVVB



Reverse complement motif

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: 6

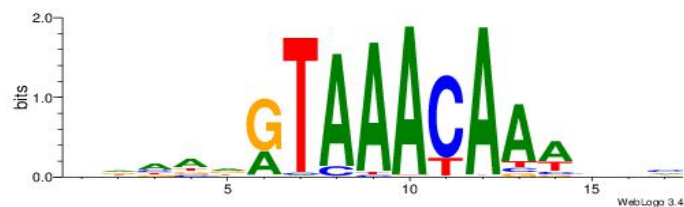
Number of overlap: 8
Similarity score: 0.0124177

Alignment:

DVVTTTGTTTACDTHDH
-----TGTTTACR-----

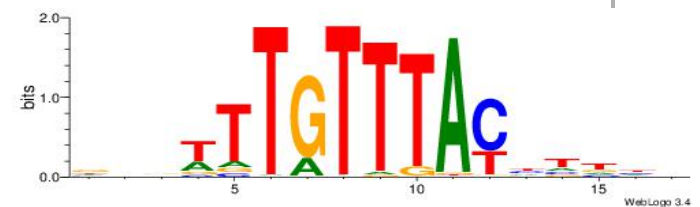
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



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: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0130125

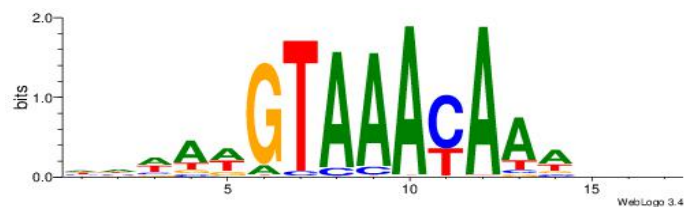
Alignment:

HHWAWGTAAAYAAAVDB
-----KGTAACA-----

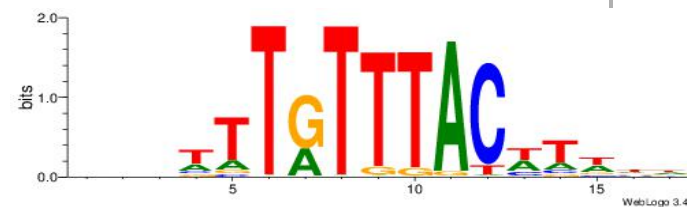
Original motif

Reverse complement motif

Consensus sequence: HHWAWGTAAAYAAVDB



Consensus sequence: BDVTTTKTTTACWTWHH



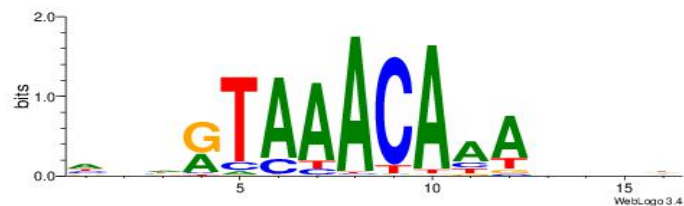
Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0166678

Alignment:

HDHRTAAACAAHDDD
--KGTAACA-----

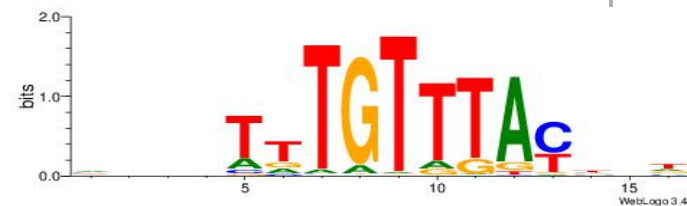
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

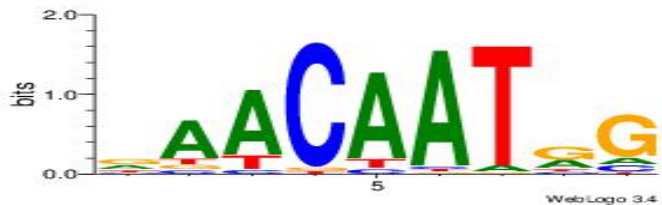
Consensus sequence: DDDHTTTGTTTAMHDDH



Dataset #: 3 **Motif ID: 87** **Motif name: SOX9**

Original motif

Consensus sequence: DAACAATRG



Reverse complement motif

Consensus sequence: CMATTGTTH



Best Matches for Motif ID 87 (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:	8
Number of overlap:	9
Similarity score:	0

Alignment:

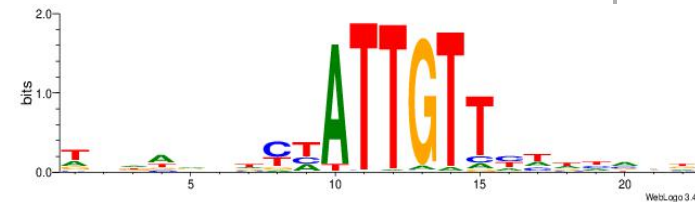
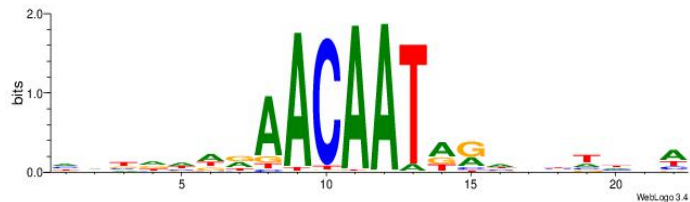
```
HHBDHDDAACAATDRHHHHHBW
-----DAACAATRG-----
```

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

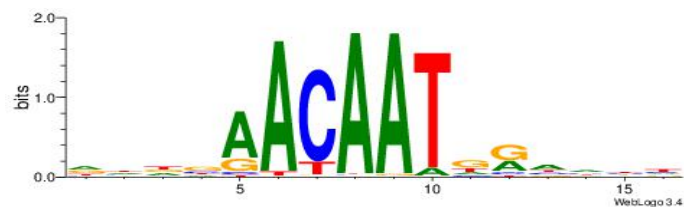


Motif ID: [UP00023](#)
 Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 9
 Similarity score: 0.00334802

Alignment:
 DHDBAACAATDRHHHH
 ---DAACAATRG----

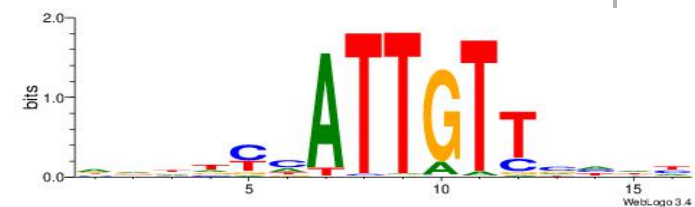
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHMHATTGTTBDHD



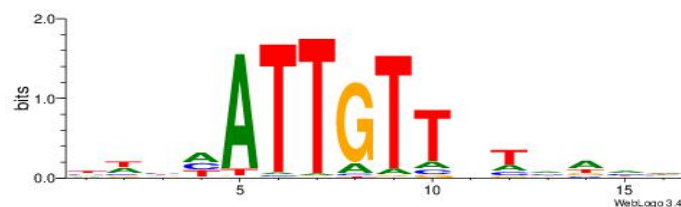
Motif ID: [UP00064](#)

Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 9
 Similarity score: 0.00846463

Alignment:
 BWBHATTGTTBTHDHH
 --CMATTGTTH-----

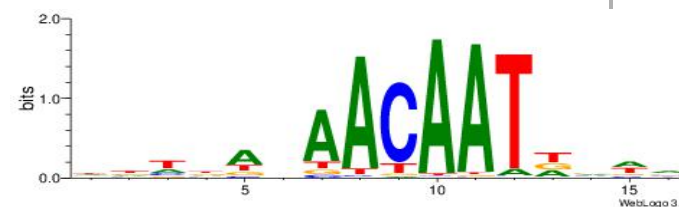
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



Motif ID: [UP00051](#)
 Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 9

Similarity score: 0.00854664

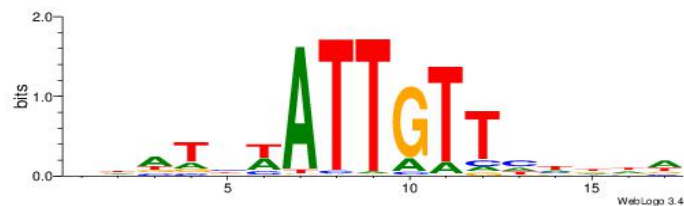
Alignment:

DDATBWATTGTTHHDDD

----CMATTGTTH----

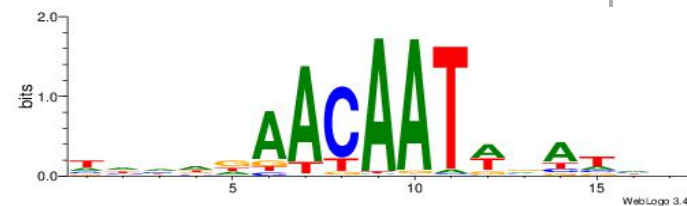
Original motif

Consensus sequence: DDATBWATTGTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



Motif ID: [UP00016](#)
Motif name: Sry_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: 9
Similarity score: 0.00857614

Alignment:

HHDHDRAACAATDDVHV

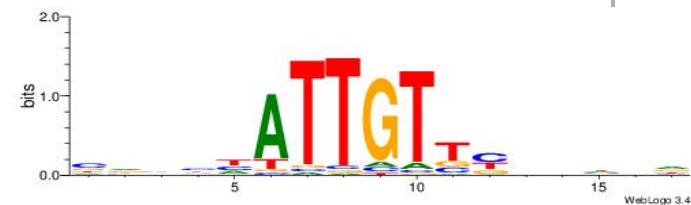
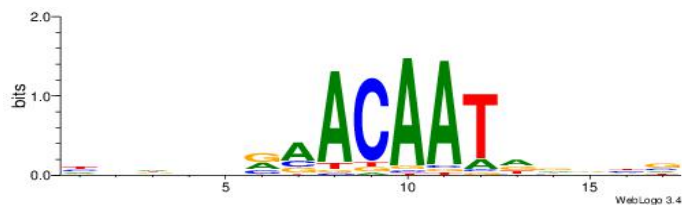
-----DAACAATRG---

Original motif

Consensus sequence: HHDHDRAACAATDDVHV

Reverse complement motif

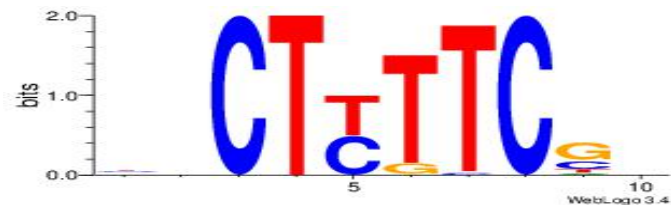
Consensus sequence: VHVHDATTGTTMHDDDH



Dataset #: 4 **Motif ID: 88** **Motif name: ygCTyTTCsg**

Original motif

Consensus sequence: HDCTYTTCGB



Reverse complement motif

Consensus sequence: BCGAAMAGHH



Best Matches for Motif ID 88 (Highest to Lowest)

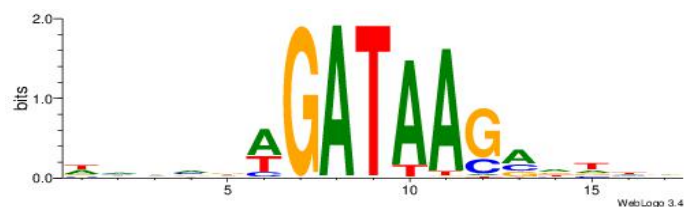
Motif ID:	UP00100
Motif name:	Gata6_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:

DHDVDWGATAAGADDHV
-----BCGAAMAGHH----

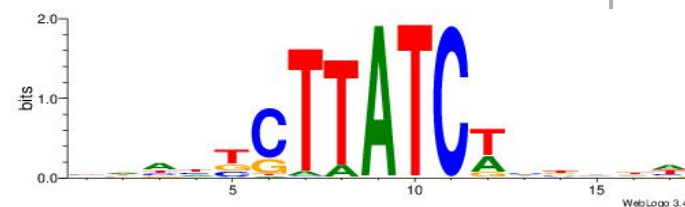
Original motif

Consensus sequence: DHDVDWGATAAGADDHV



Reverse complement motif

Consensus sequence: VHDDTCTTATCWHBDHD



Motif ID:	UP00080
Motif name:	Gata5_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.00162374

Alignment:

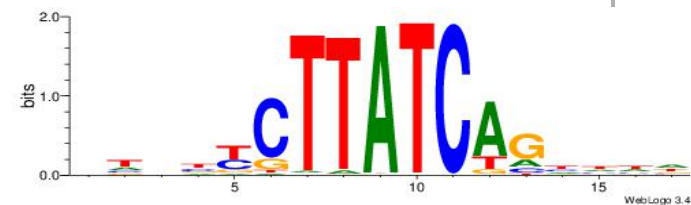
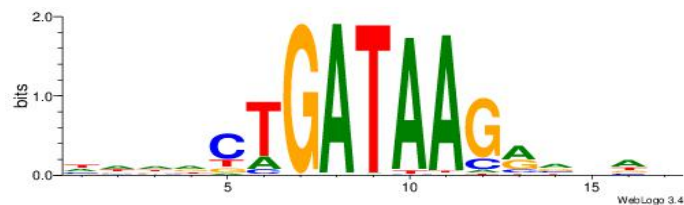
DDHBKCTTATCAGDDDH
---HDCTYTTCGB----

Original motif

Consensus sequence: HDDDCTGATAAGRVDH

Reverse complement motif

Consensus sequence: DDHBKCTTATCAGDDDH



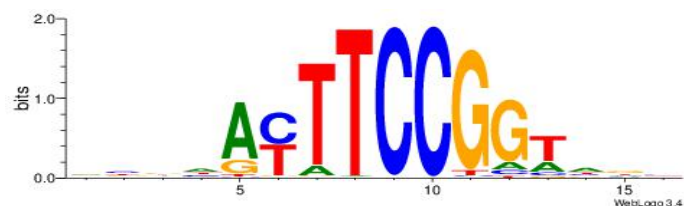
Motif ID: [UP00422](#)
 Motif name: Etv3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.00476259

Alignment:

VBBHAYTTCCGGTHDH
 -HDCTYTTTCGB-----

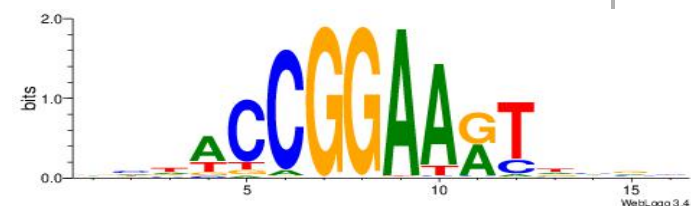
Original motif

Consensus sequence: VBBHAYTTCCGGTHDH



Reverse complement motif

Consensus sequence: DHHACCGGAAKTHBBB



Motif ID: [UP00032](#)

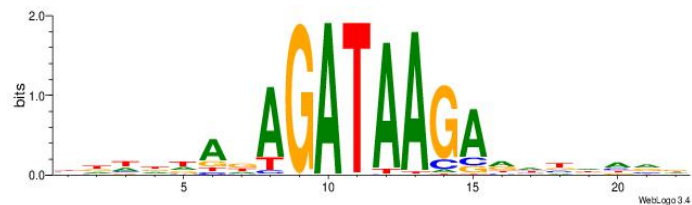
Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00596836

Alignment:

BDHDDADAGATAAGADHBDHVD
 -----BCGAAMAGHH-----

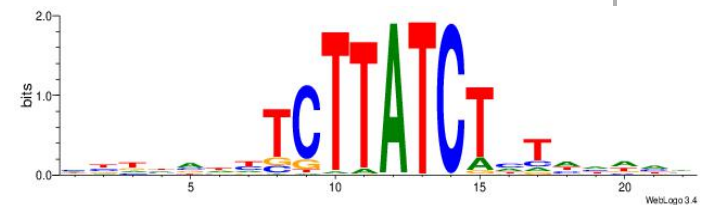
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00018](#)
 Motif name: Irf4_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: 10

Similarity score: 0.00611579

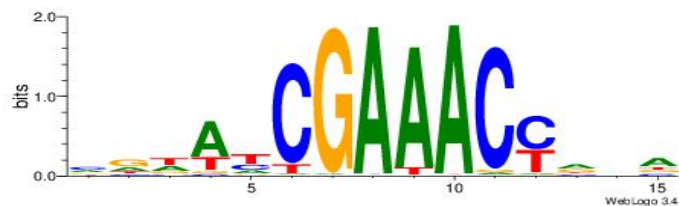
Alignment:

VDDAYCGAAACYDVA

----BCGAAMAGHH--

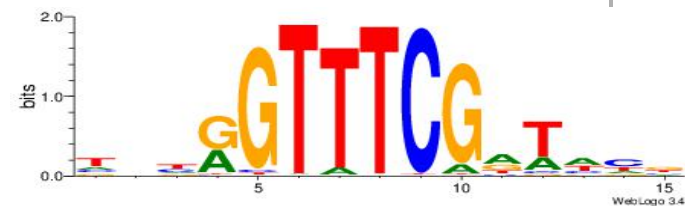
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

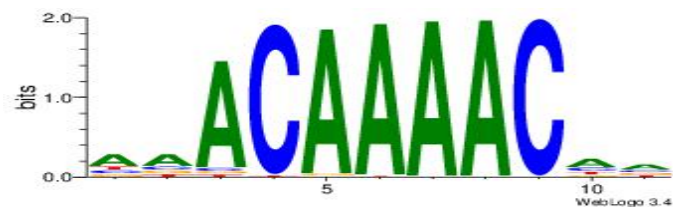
Consensus sequence: TBDKGTTCGMDTHV



Dataset #: 4 **Motif ID: 89** **Motif name: aaACAAAACaa**

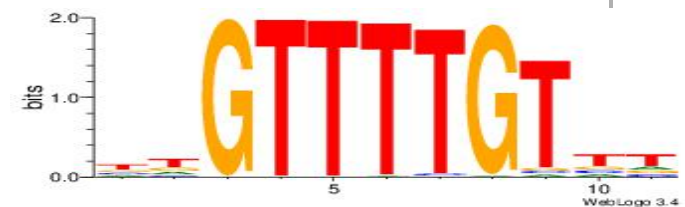
Original motif

Consensus sequence: AAACAAAACHV



Reverse complement motif

Consensus sequence: BHGTTTTGTTT



Best Matches for Motif ID 89 (Highest to Lowest)

Motif ID: [UP00040](#)
Motif name: Irf5_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement

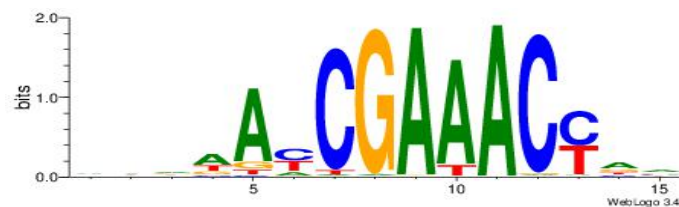
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

```
BDKGTTCGKTWDDD
-BHGTTCGTTT---
```

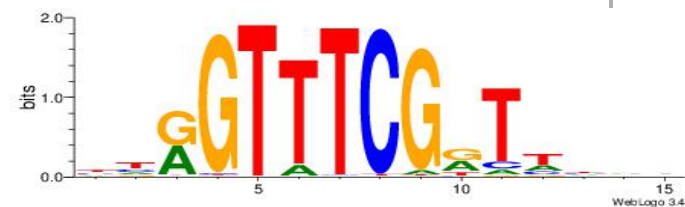
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTCGKTWDDD



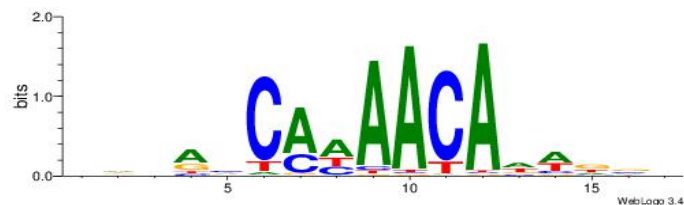
Motif ID:	UP00039
Motif name:	Foxj3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.00609972

Alignment:

DVHWDTGTTWTGDTBDH
----BHGT TTTGTTT--

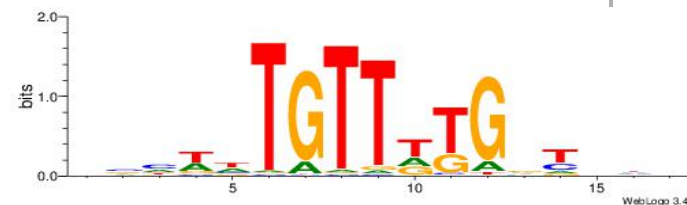
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



Motif ID:	UP00062
Motif name:	Sox4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.00979154

Alignment:

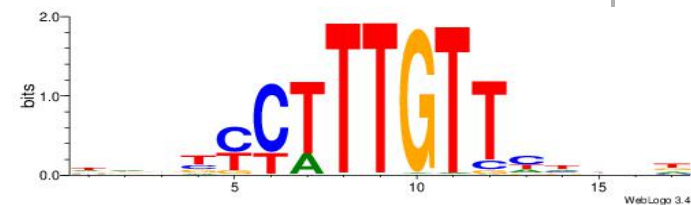
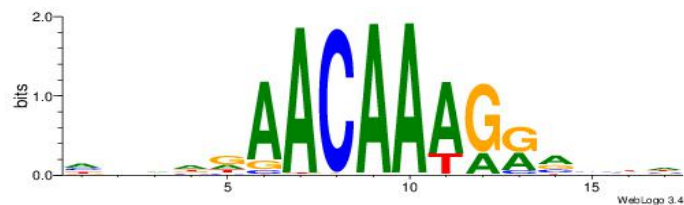
HBDDDAACAAAGRVBHH
----AAACAAAACHV--

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH



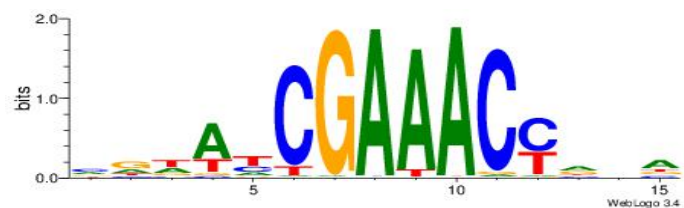
Motif ID: [UP00018](#)
 Motif name: Irf4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0107372

Alignment:

TBDKGTTTCGMTDHV
 --BHGTTTTGTTT--

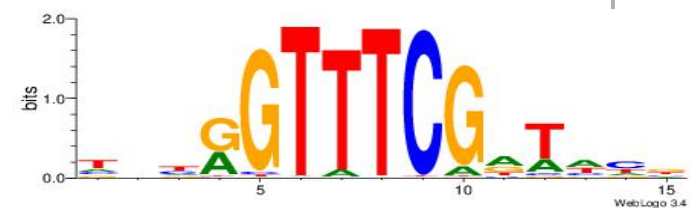
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

Consensus sequence: TBDKGTTTCGMTDHV



Motif ID: [UP00074](#)

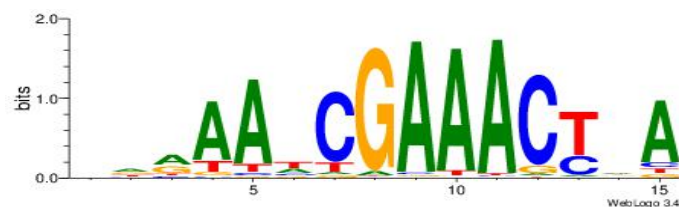
Motif name: Isgf3g_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0120963

Alignment:

VDRAAWCGAACTDA
 ---AAACAAAACHV-

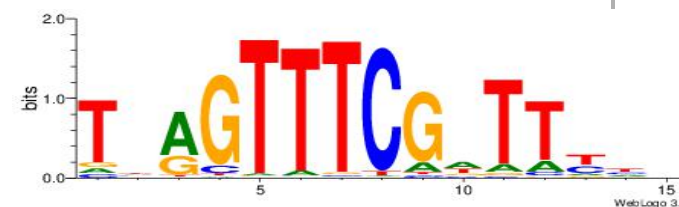
Original motif

Consensus sequence: VDRAAWCGAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



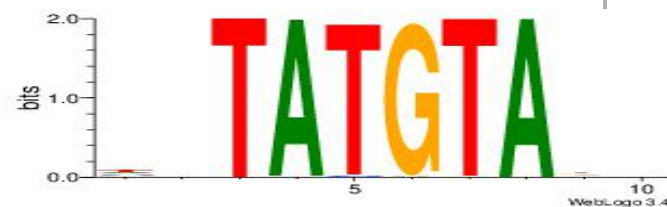
Dataset #: 4 Motif ID: 90 Motif name: ymTACATAyw

Original motif

Consensus sequence: HHTACATABD

Reverse complement motif

Consensus sequence: DBTATGTAHH



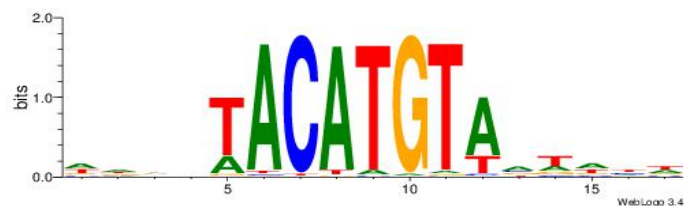
Best Matches for Motif ID 90 (Highest to Lowest)

Motif ID: [UP00223](#)
 Motif name: Irx3_2226.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0125176

Alignment:
 DDDHTACATGTAVWDHD
 --HHTACATABD-----

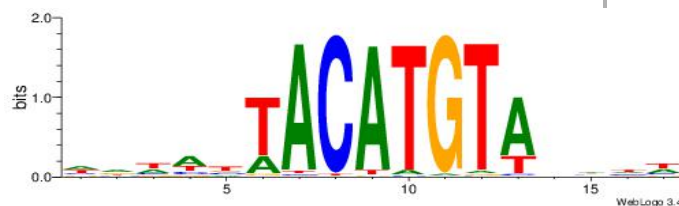
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD

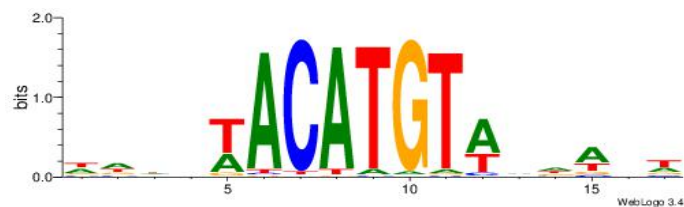


Motif ID: [UP00250](#)
 Motif name: Irx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0128452

Alignment:
 DDDHWACATGTWHDABW
 --HHTACATABD-----

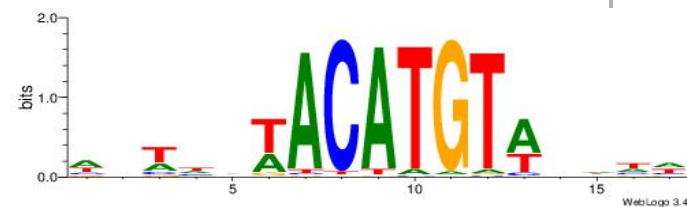
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDPHWACATGTWHD



Motif ID: [UP00223](#)
 Motif name: Irx3_0920.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6

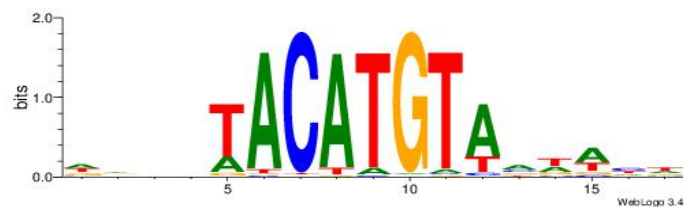
Number of overlap: 10
Similarity score: 0.0136843

Alignment:

DDDDTACATGTAVWWHD
--HHTACATABD-----

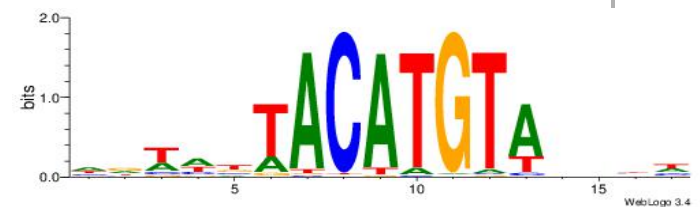
Original motif

Consensus sequence: DDDDTACATGTAVWWHD



Reverse complement motif

Consensus sequence: DDWWBTACATGTADDD



Motif ID: [UP00236](#)
Motif name: Irx2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0146278

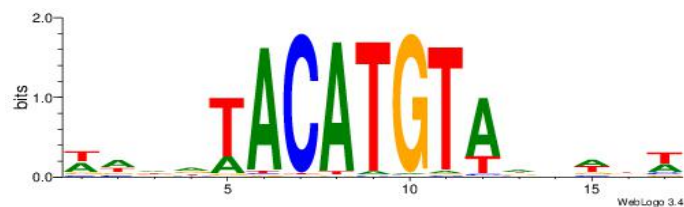
Alignment:

WDDDTACATGTADDWBW
--HHTACATABD-----

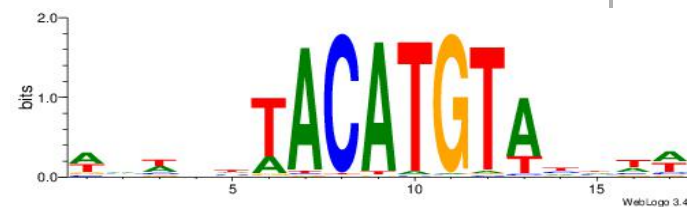
Original motif

Reverse complement motif

Consensus sequence: WDDDTACATGTADDWBW



Consensus sequence: VVWDDTACATGTADDDW

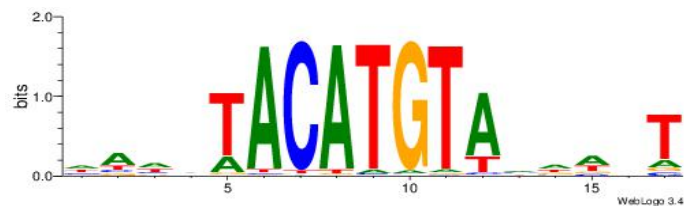


Motif ID: [UP00150](#)
Motif name: Irx6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0149892

Alignment:
HAHDTACATGTAVDWHT
--HHTACATABD-----

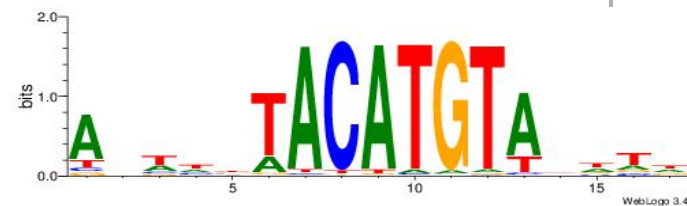
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHHT



Dataset #: 4

Motif ID: 91

Motif name: wtATTTTAww

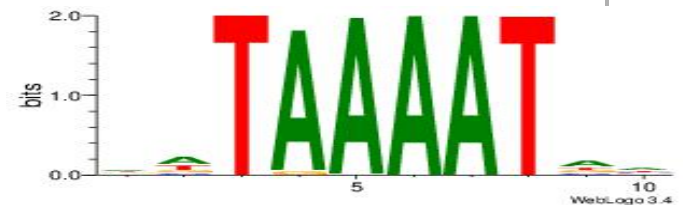
Original motif

Consensus sequence: DHATTTTAWH



Reverse complement motif

Consensus sequence: HWTAAAATHD



Best Matches for Motif ID 91 (Highest to Lowest)

Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0

Alignment:

HDDDATTTTATTKVRDB

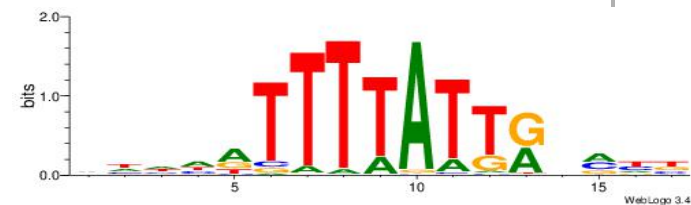
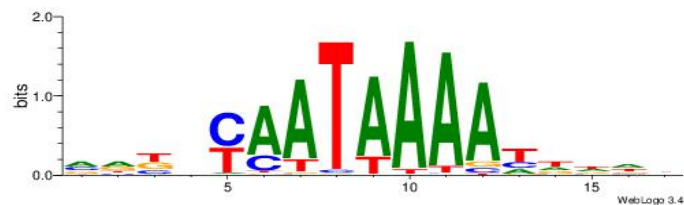
--DHATTTTAWH-----

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

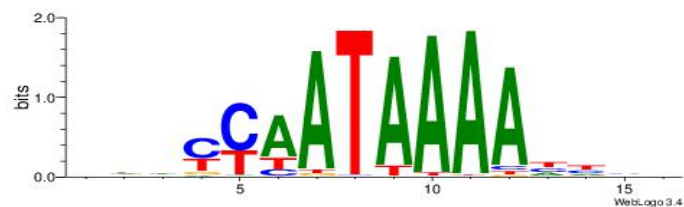


Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.000602623

Alignment:
 HDHHTTTTATTKKHDD
 -DHATTTTAWH-----

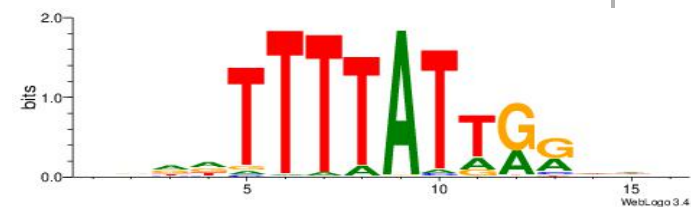
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00134](#)

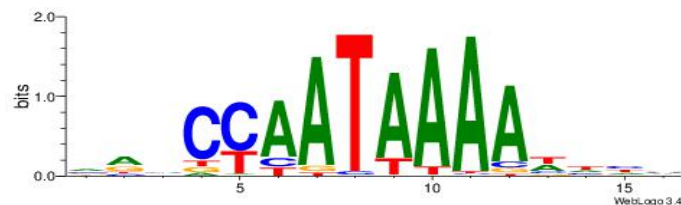
Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.00330603

Alignment:

VDHWTTTTATTGGDKB
 -DHATTTTAWH-----

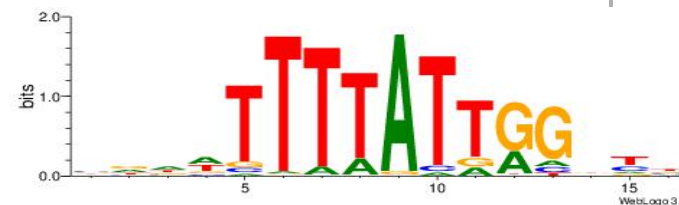
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



Motif ID: [UP00207](#)
 Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10

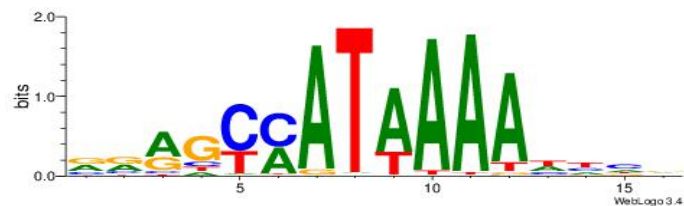
Similarity score: 0.0112406

Alignment:

VRRGCMATAAAHHHD
-----HWTAAAATHD-

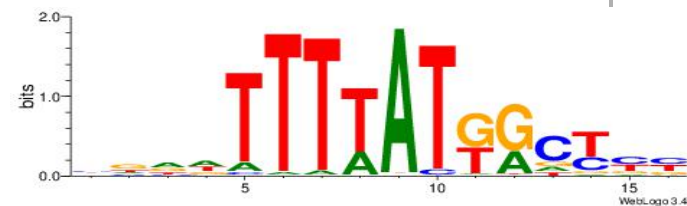
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID: [UP00213](#)
Motif name: Hoxa9
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0133155

Alignment:

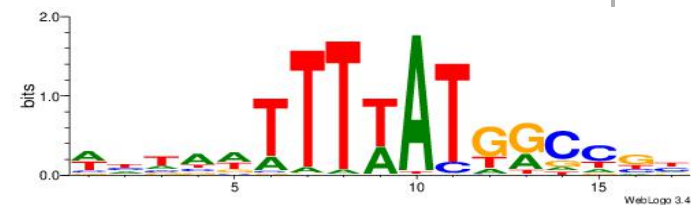
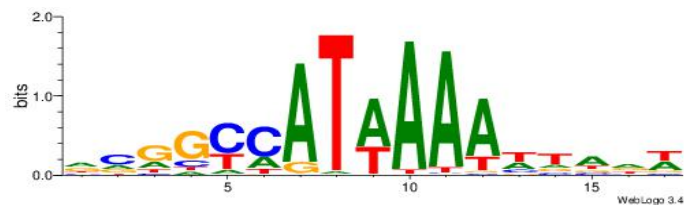
DCGGYCATWAAAWTADW
-----HWTAAAATHD--

Original motif

Consensus sequence: DCGGYCATWAAAWTADW

Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



Dataset #: 4 Motif ID: 92 Motif name: cgAKGyCacg

Original motif

Consensus sequence: CGAGGYCACV



Reverse complement motif

Consensus sequence: VGTGMCCTCG



Best Matches for Motif ID 92 (Highest to Lowest)

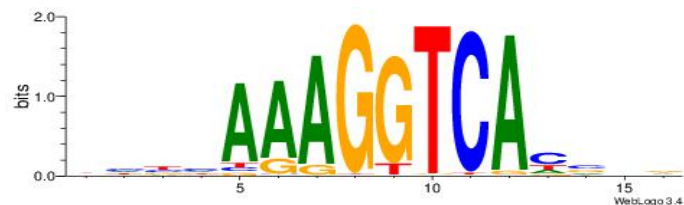
Motif ID:	UP00048
Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

DHBHAAAGGTCACVHD
-----CGAGGYCACV--

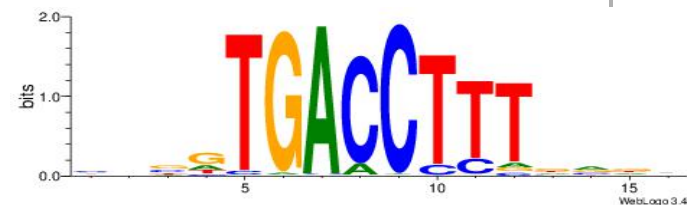
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



Motif ID:	UP00079
Motif name:	Esrra_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.000849165

Alignment:

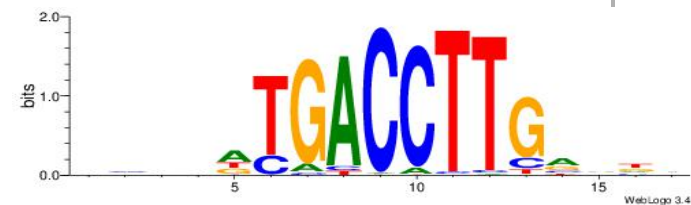
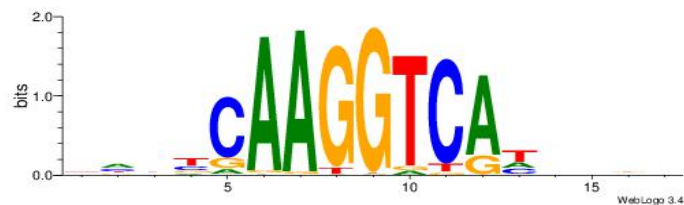
DHDBCAAGGTCAHVBDH
-----CGAGGYCACV---

Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH

Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

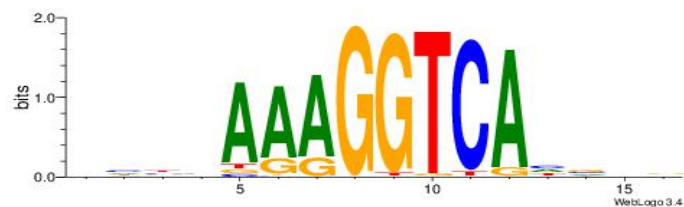


Motif ID: [UP00009](#)
 Motif name: Nr2f2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.00374211

Alignment:
 DHBHAAAGGTCAHVHB
 ----CGAGGYCACV--

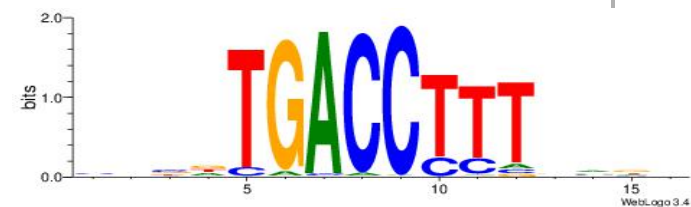
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



Motif ID: [UP00053](#)

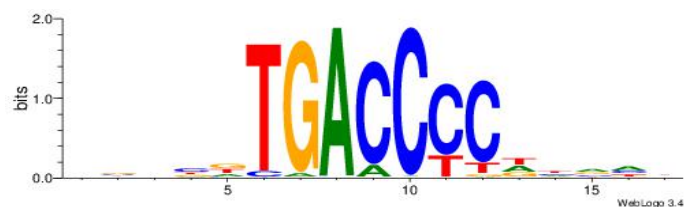
Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00411192

Alignment:

DBHBDTGACCCCDHVHB
 ---VGTGMCCTCG----

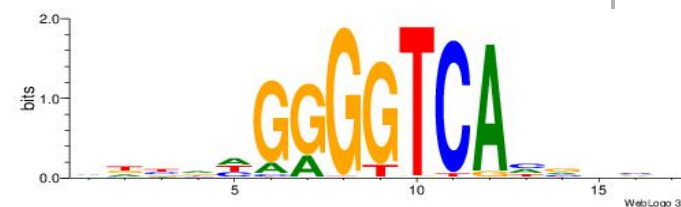
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10

Similarity score: 0.00498268

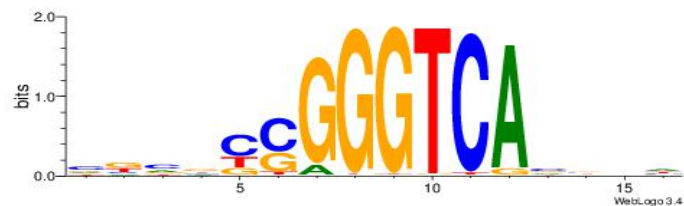
Alignment:

VBVBCSGGGTCAVBBH

----CGAGGYCACV--

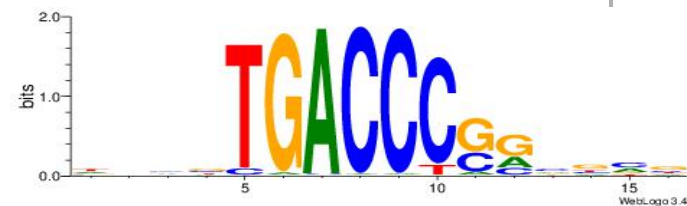
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

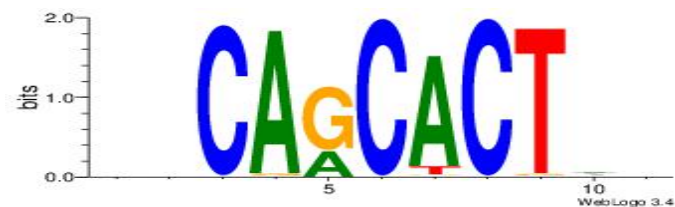
Consensus sequence: HVBVTGACCCSGBVBV



Dataset #: 4 **Motif ID: 93** **Motif name: cmCARCACTwr**

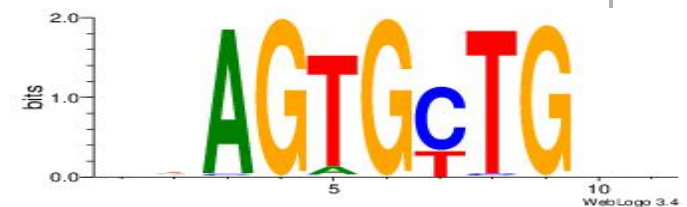
Original motif

Consensus sequence: BHCAGCACTHV



Reverse complement motif

Consensus sequence: VHAGTGCTGHB



Best Matches for Motif ID 93 (Highest to Lowest)

Motif ID: [UP00095](#)
Motif name: Zfp691_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement

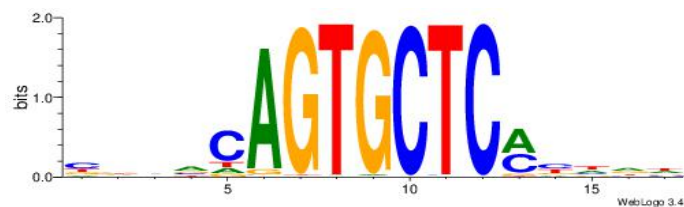
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

```
BDHVCAGTGCTCMBHDD
---VHAGTGCTGHB---
```

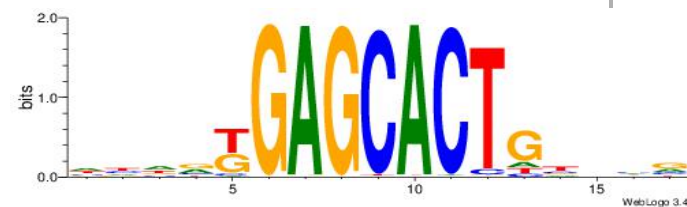
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHHB



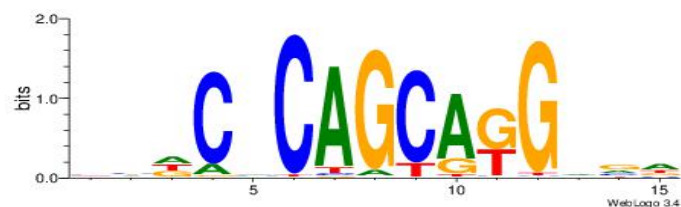
Motif ID:	UP00057
Motif name:	Zic2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0156406

Alignment:

HHDCVCAGCAKGVVD
---BHCAGCACTHV-

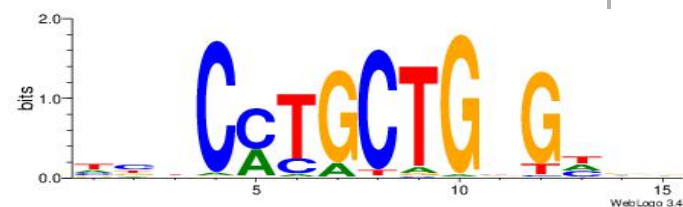
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID:	UP00102
Motif name:	Zic1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0168051

Alignment:

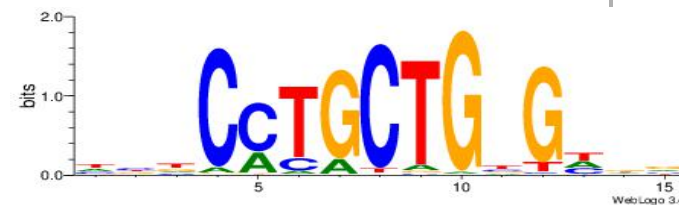
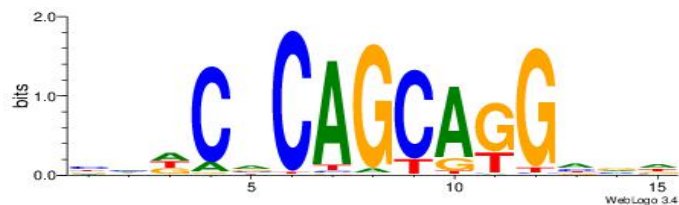
BHDCVCAGCAGGHVD
---BHCAGCACTHV-

Original motif

Consensus sequence: BHDCVCAGCAGGHVD

Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDB

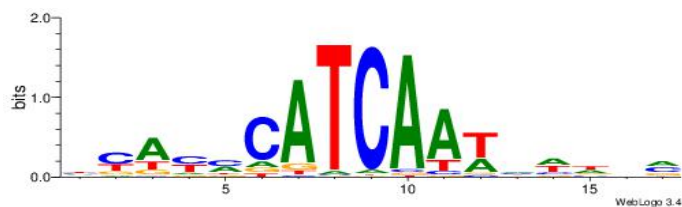


Motif ID: [UP00185](#)
 Motif name: Pbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.017137

Alignment:
 BVDWHWTTGATGRKTKH
 ---VHAGTGCTGHB---

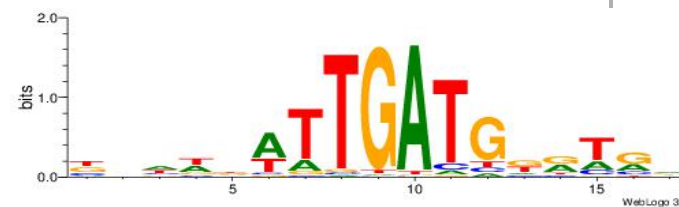
Original motif

Consensus sequence: HYAYMCATCAAWHWDVV



Reverse complement motif

Consensus sequence: BVDWHWTTGATGRKTKH



Motif ID: [UP00231](#)

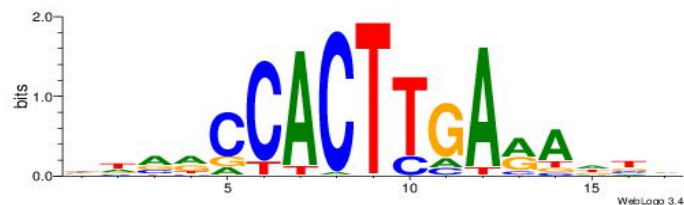
Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0178374

Alignment:

DVDTKTCAAGTGGKBDH
 -----VHAGTGCTGHB

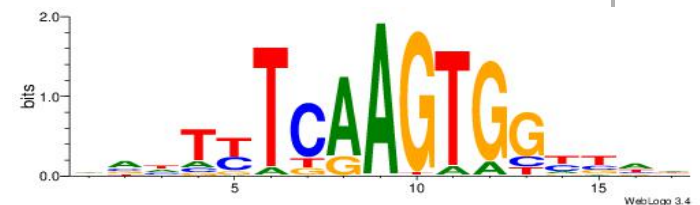
Original motif

Consensus sequence: HDVRCCAATTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



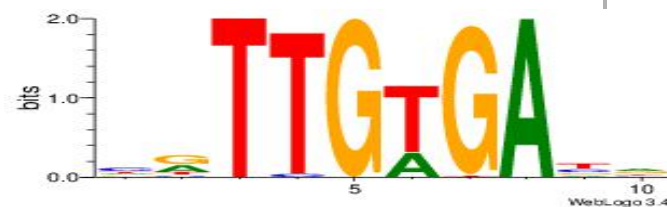
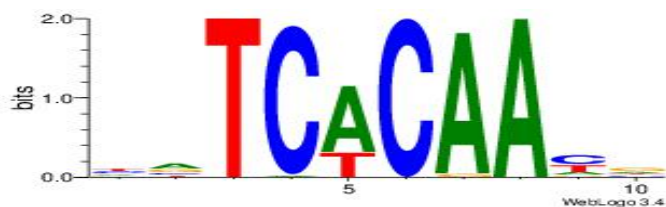
Dataset #: 4 Motif ID: 94 Motif name: yrTCWCAAyr

Original motif

Consensus sequence: HVTCACAAYD

Reverse complement motif

Consensus sequence: HKTTGTGABH



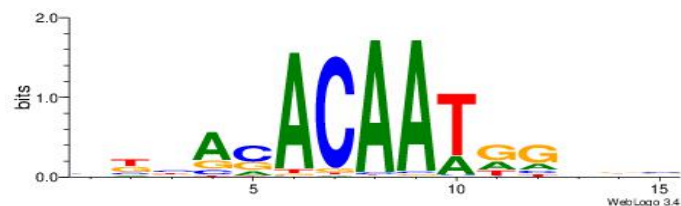
Best Matches for Motif ID 94 (Highest to Lowest)

Motif ID: [UP000004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00180568

Alignment:
 BBDCMATTGTSTBRB
 ----HKTTGTGABH-

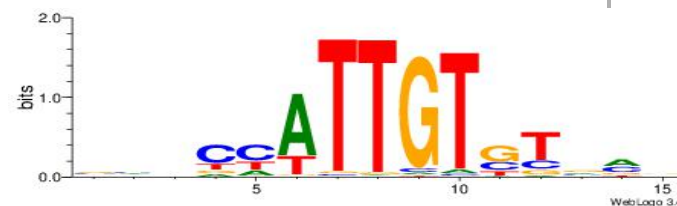
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



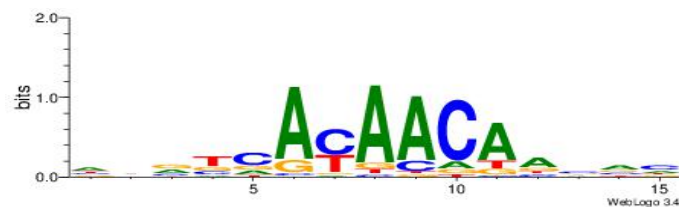
Motif ID: [UP00041](#)
 Motif name: Foxj1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00349348

Alignment:

HBVBCAYAACAABVH
 -HVTCAAAAYD----

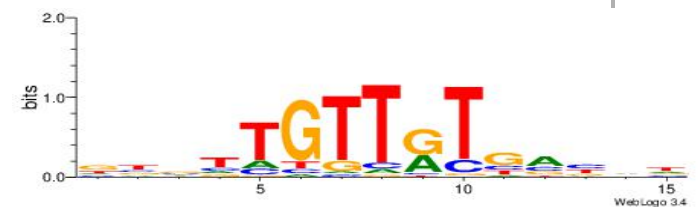
Original motif

Consensus sequence: HBVBCAYAACAABVH



Reverse complement motif

Consensus sequence: DBBTTGTTKTGVVH

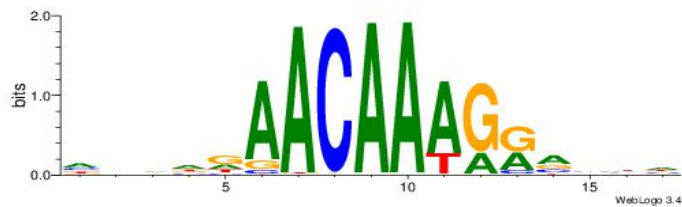


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

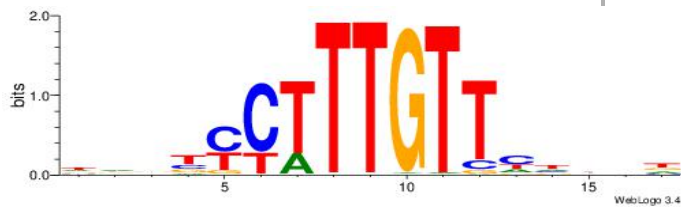
Number of overlap: 10
Similarity score: 0.00703247

Alignment:
HHBBMCTTTGTTTHDDBH
-----HKTGTGABH--

Original motif
Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif
Consensus sequence: HHBBMCTTTGTTTHDDBH



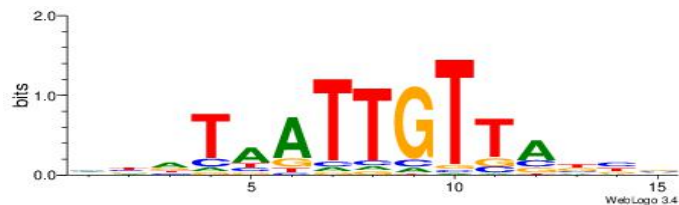
Motif ID: [UP00069](#)
Motif name: Sox1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.00766951

Alignment:
HBDTAATTGTTABBV
----HKTGTGABH-

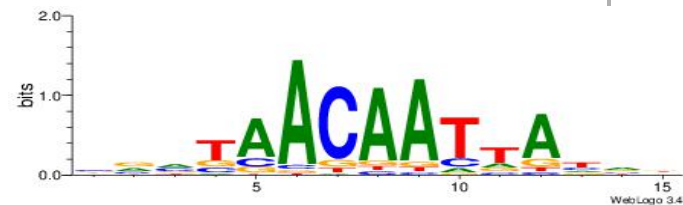
Original motif

Reverse complement motif

Consensus sequence: HBDTAATTGTTABBV



Consensus sequence: VBVTAACAATTADVD



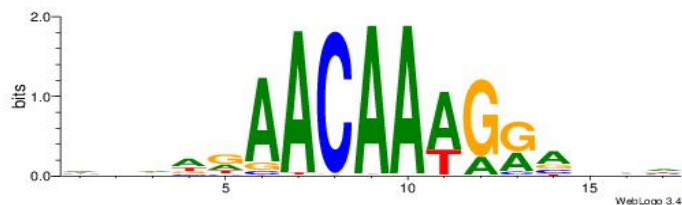
Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.00853696

Alignment:

```
HHBTMCTTTGTTMDDVH  
-----HKTTGTGABH--
```

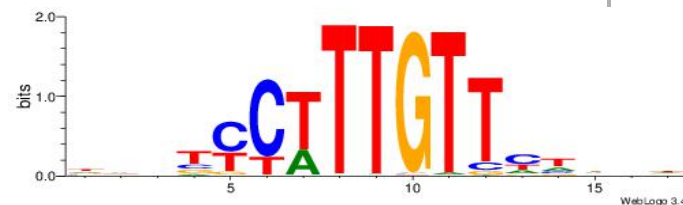
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Dataset #: 4 **Motif ID: 95** **Motif name: rmATGCTAww**

Original motif

Consensus sequence: DHATGCTADH



Reverse complement motif

Consensus sequence: HDTAGCATHD



Best Matches for Motif ID 95 (Highest to Lowest)

Motif ID: [UP00035](#)
Motif name: Hic1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.000392414

Alignment:

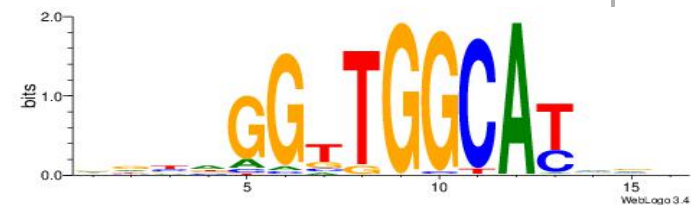
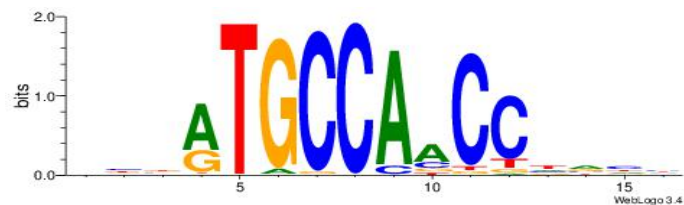
DDBHGGTTGGCATVBD
-----HDTAGCATHD-

Original motif

Consensus sequence: DDBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

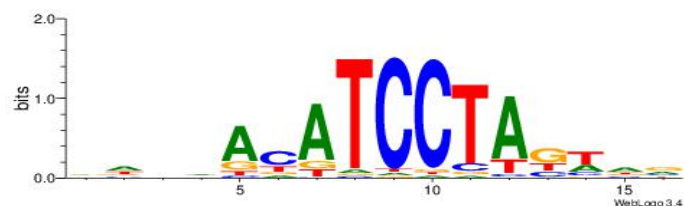


Motif ID: [UP00038](#)
 Motif name: Spdef_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.00185687

Alignment:
 DDBHACATCCTAKWDV
 ----DHATGCTADH--

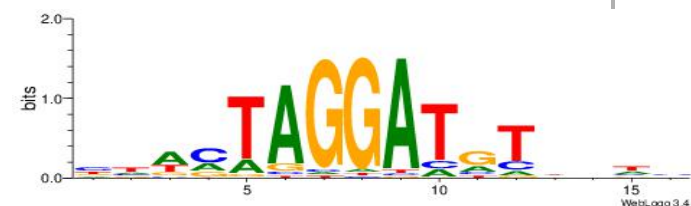
Original motif

Consensus sequence: DDBHACATCCTAKWDV



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH

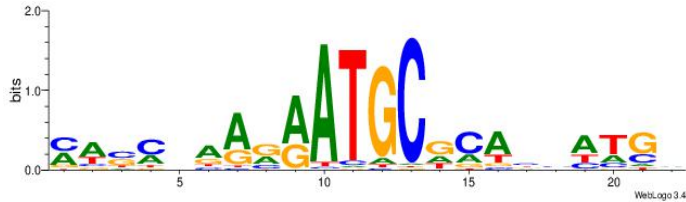


Motif ID: [UP00528](#)

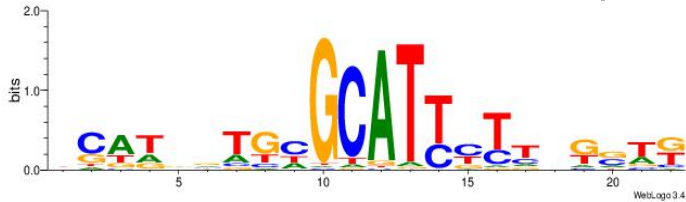
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.00415297

Alignment:
MWSMBAARRATGCD CABHATGD
-----DHATGCTADH-----

Original motif
Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
Consensus sequence: DCATDBTGHGCATKMTTBRSWR

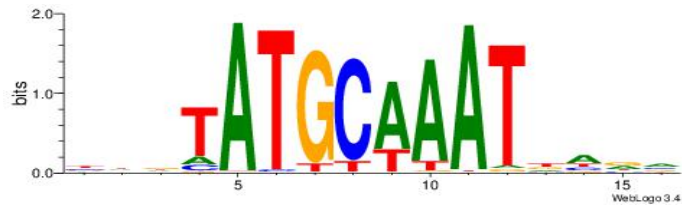


Motif ID: [UP00191](#)
Motif name: Pou2f2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10

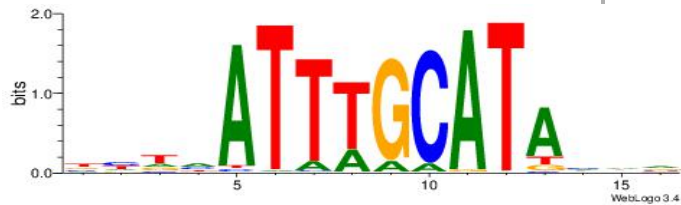
Similarity score: 0.00662149

Alignment:
BHDTATGCAAATDHDV
--DHATGCTADH----

Original motif
Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif
Consensus sequence: BHHDATTTGCATAHHV

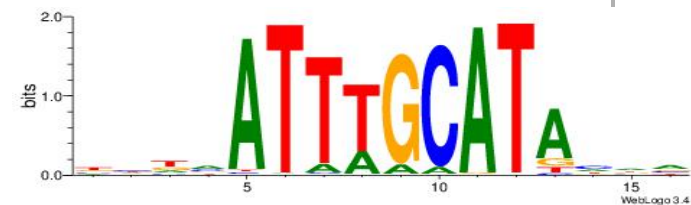
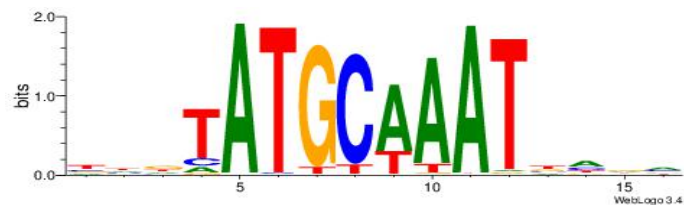


Motif ID: [UP00179](#)
Motif name: Pou2f3
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.00719542

Alignment:
BHDTATGCAAATBHDV
--DHATGCTADH----

Original motif
Consensus sequence: BHDTATGCAAATBHDV

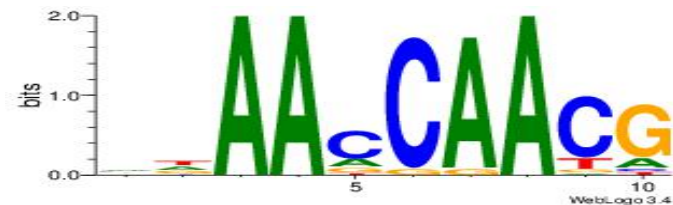
Reverse complement motif
Consensus sequence: BHHDATTTGCATAHHV



Dataset #: 4 **Motif ID: 96** **Motif name: mdAAcCAACG**

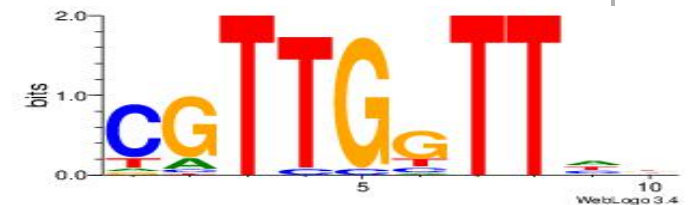
Original motif

Consensus sequence: VDAACCAACG



Reverse complement motif

Consensus sequence: CGTTGGTTDB



Best Matches for Motif ID 96 (Highest to Lowest)

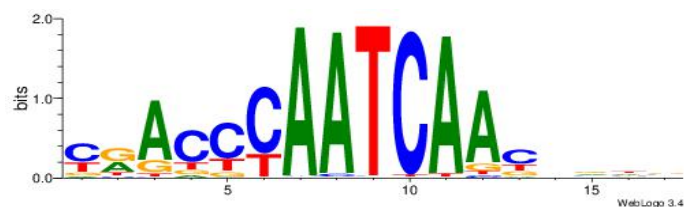
Motif ID:	UP00227
Motif name:	Duxl
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.00355394

Alignment:

VHVVGTTGATTGGGTMK
---CGTTGGTTDB----

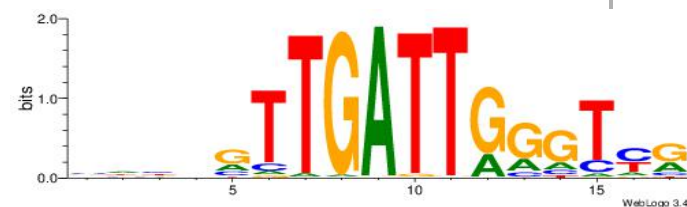
Original motif

Consensus sequence: YRACCCAATCAACVVHV



Reverse complement motif

Consensus sequence: VHVVGTTGATTGGGTMK



Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.00855132

Alignment:

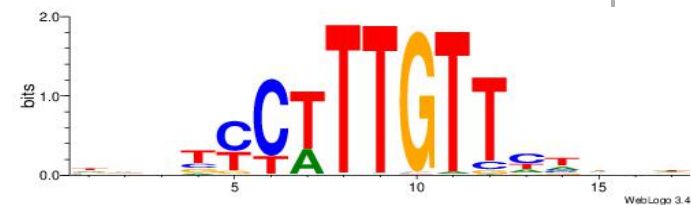
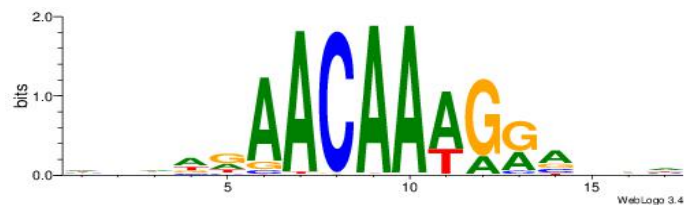
HBDDRAACAAAGRABHH
--VDAACCAACG-----

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH

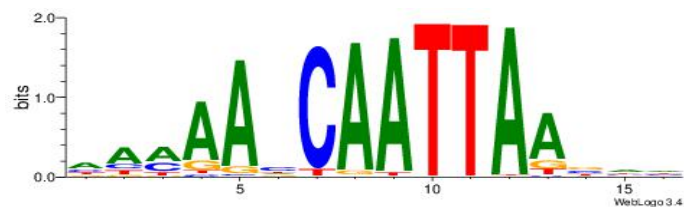


Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.0107325

Alignment:
 HAMAAHCAATTAABHH
 -VDAACCAACG-----

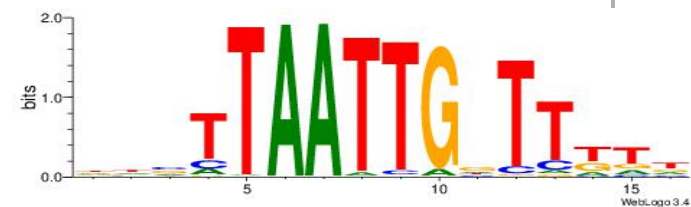
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTYTH



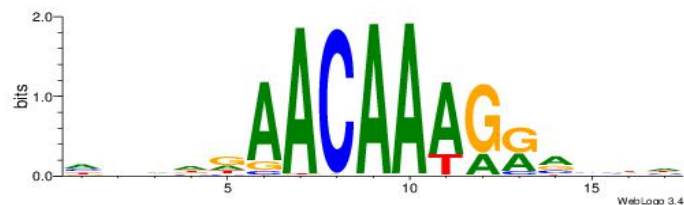
Motif ID: [UP00062](#)

Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0110249

Alignment:
 HBDDDAACAAAGRVBHH
 --VDAACCAACG-----

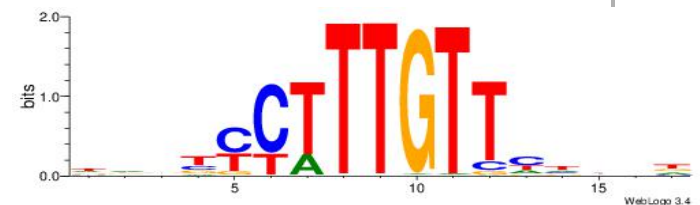
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH



Motif ID: [UP00037](#)
 Motif name: Zfp105_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 10

Similarity score: 0.0135248

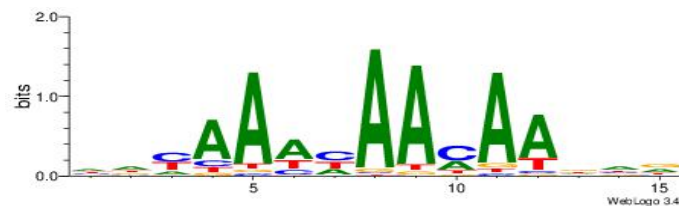
Alignment:

HHHTTRTTDTTTKDH

----CGTTGGTTDB--

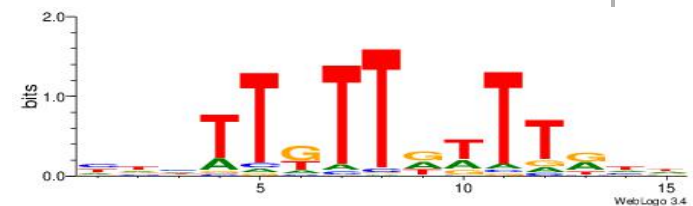
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



Dataset #: 4 **Motif ID: 97** **Motif name: sgArGCCACg**

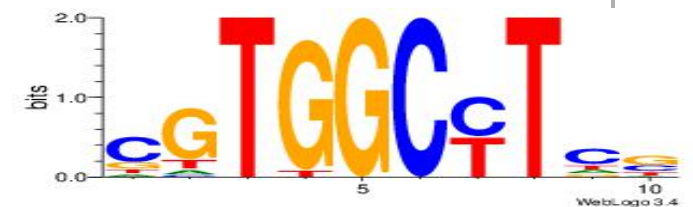
Original motif

Consensus sequence: SGARGCCACG



Reverse complement motif

Consensus sequence: CGTGGCKTCS



Best Matches for Motif ID 97 (Highest to Lowest)

Motif ID:	UP00527
Motif name:	Foxn4_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:	10
Similarity score:	0

Alignment:

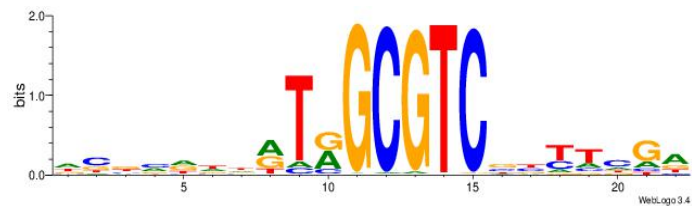
```

DBBVDDDRTRGCGTCBBYTHGA
-----CGTGGCKTCS-----

```

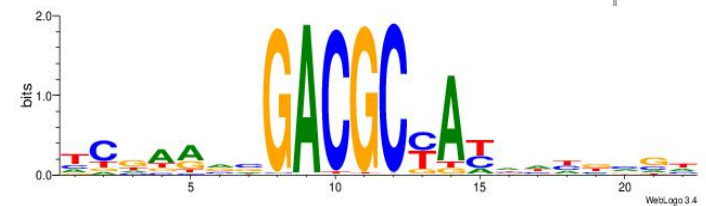
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBBD



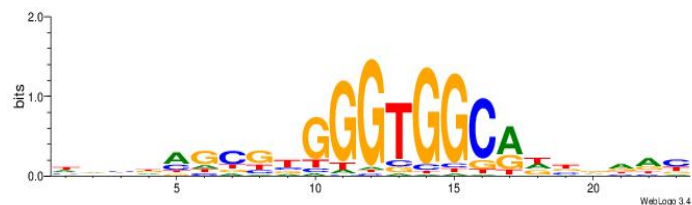
Motif ID:	UP00538
Motif name:	Gli1_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.016953

Alignment:

BDDHVDKGCCACCCVCGCTDBVH
---SGARGCCACG-----

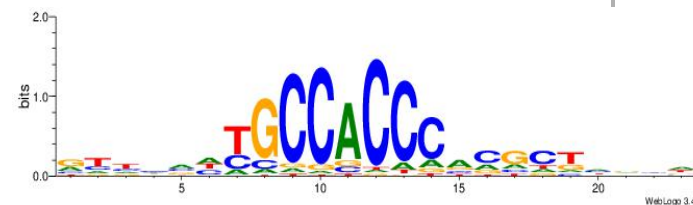
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID:	UP00035
Motif name:	Hic1_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:	10
Similarity score:	0.0201376

Alignment:

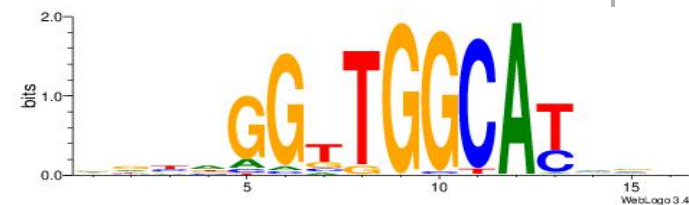
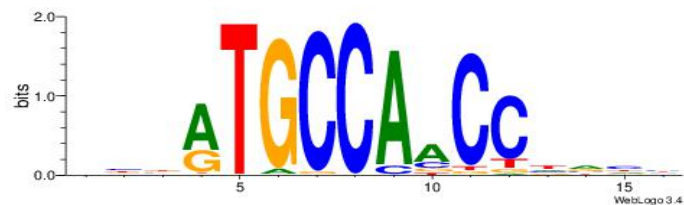
DBBATGCCAACCHVHH
-SGARGCCACG-----

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



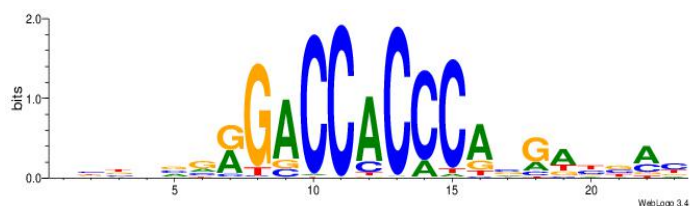
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 10
 Similarity score: 0.0208219

Alignment:

BBBDVVRGACCACCCAVGABBAB
 ----SGARGCCACG-----

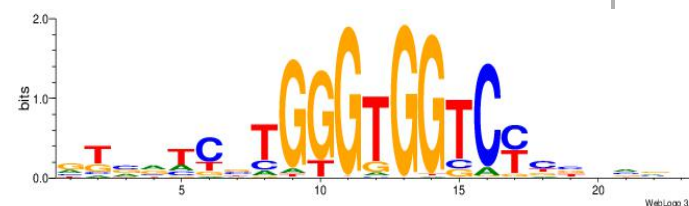
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVCVTGGGTGGTCMVVDVBB



Motif ID: [UP00540](#)

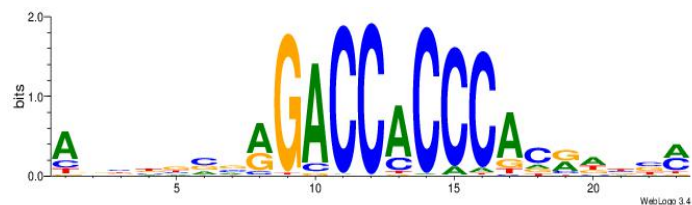
Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0214164

Alignment:

ABBBBVVRGACCACCCACRDBBM
 -----SGARGCCACG-----

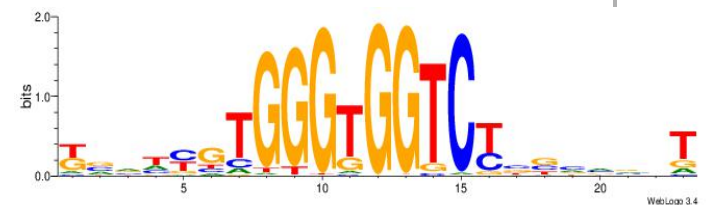
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMSGTGGGTGGTCKVVBVBBT



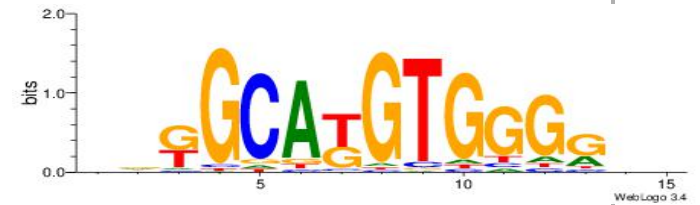
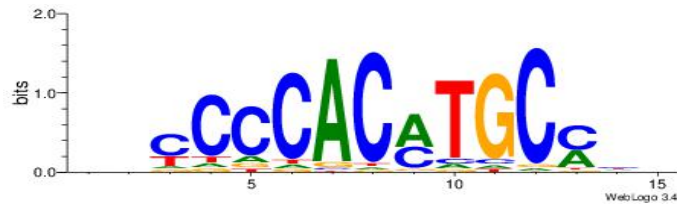
Dataset #: 4 Motif ID: 98 Motif name: myyCCCACmTGCmyr

Original motif

Consensus sequence: HBCCCCACMTGCMHV

Reverse complement motif

Consensus sequence: VDRGCAYGTGGGGVD



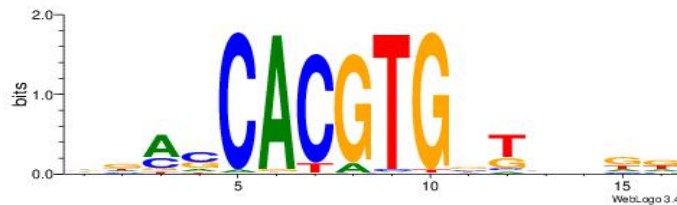
Best Matches for Motif ID 98 (Highest to Lowest)

Motif ID: [UP00060](#)
 Motif name: Max_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: 15
 Similarity score: 0.0181868

Alignment:
 DDASCACGTGBTBVDD
 VDRGCAYGTGGGGVD-

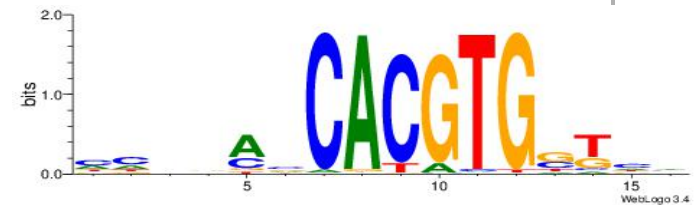
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



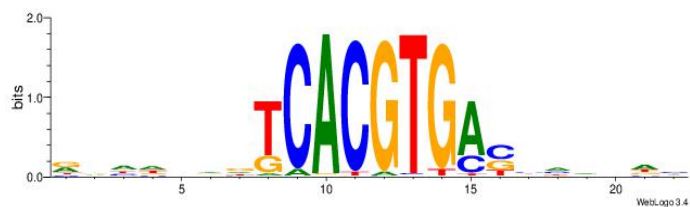
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 15
 Similarity score: 0.0230607

Alignment:

RDHDBVDTACGTGASBHVHDH
 ----VDRGCAYGTGGGGVD---

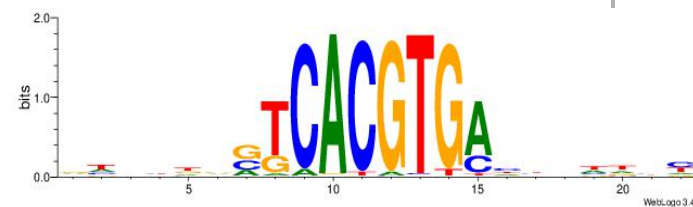
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDHHM



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

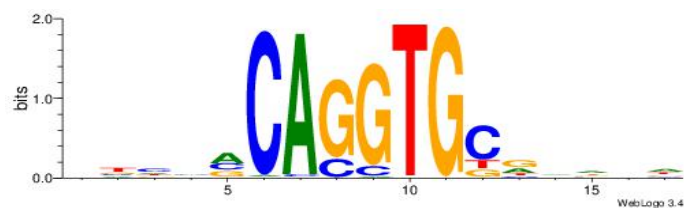
Number of overlap: 15
Similarity score: 0.0256209

Alignment:

DHDBHGCACCTGBDDVB
-HBCCCCACMTGCMHV-

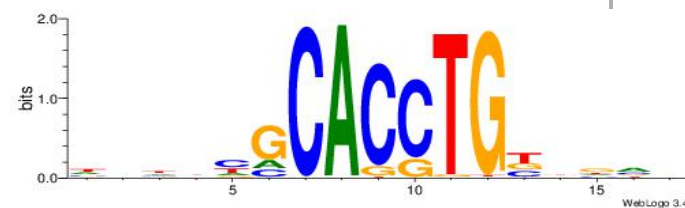
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.0266663

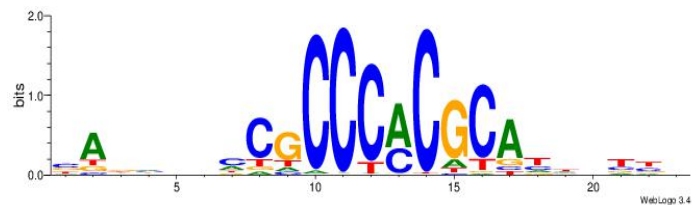
Alignment:

BADHBDHCGCCCMCGCAHHDBBV
----HBCCCCACMTGCMHV----

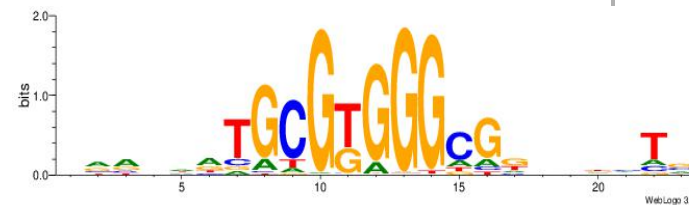
Original motif

Reverse complement motif

Consensus sequence: BADHBDHCGCCCMCGCAHDBBV



Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB



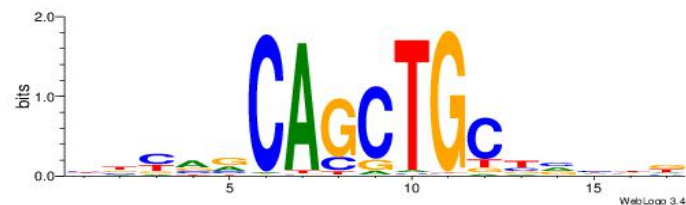
Motif ID: [UP00099](#)
Motif name: Ascl2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.0272039

Alignment:

BBYVVCAGCTGCBVHHD
HBCCCCACMTGCMHV--

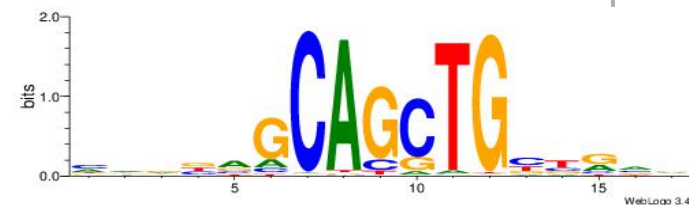
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



Dataset #: 4 **Motif ID: 99** **Motif name: graGGGGGArr**

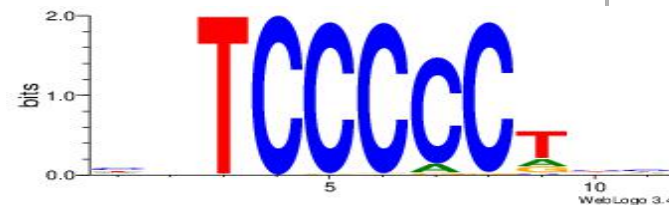
Original motif

Consensus sequence: DVAGGGGGADD



Reverse complement motif

Consensus sequence: HDTCCCCCTVH



Best Matches for Motif ID 99 (Highest to Lowest)

Motif ID:	UP00022
Motif name:	Zfp740_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.00603636

Alignment:

BHHDYGGGGGGGGBVD

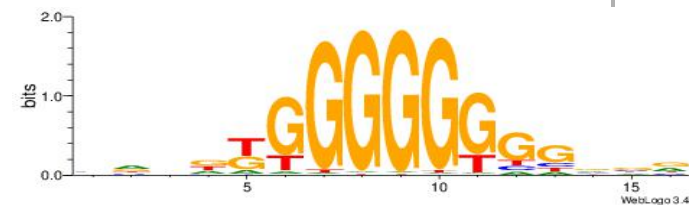
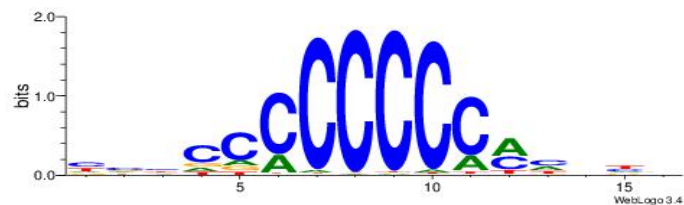
--DVAGGGGGADD---

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD

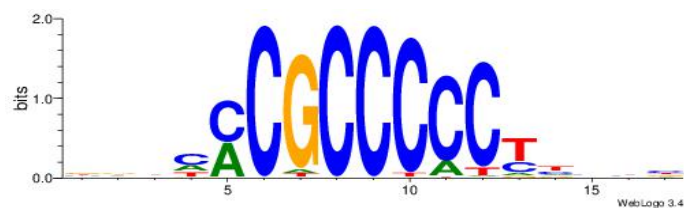


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0076747

Alignment:
 BVVHAGGGGGCGRDHBB
 --DVAGGGGGADD----

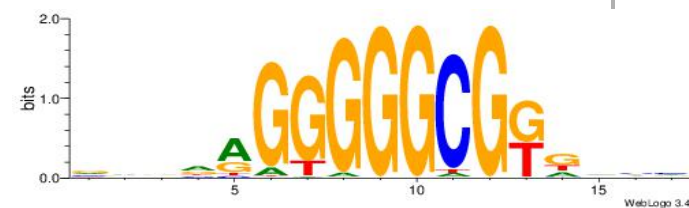
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00047](#)

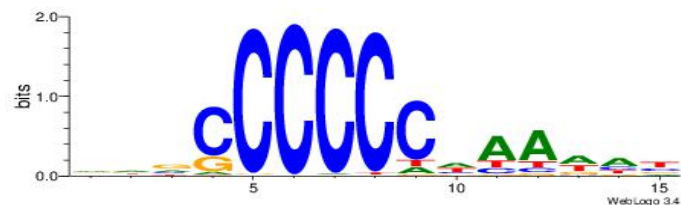
Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00819591

Alignment:

DDVCCCCCCHAAWHB
 -HDTCCCCCTVH---

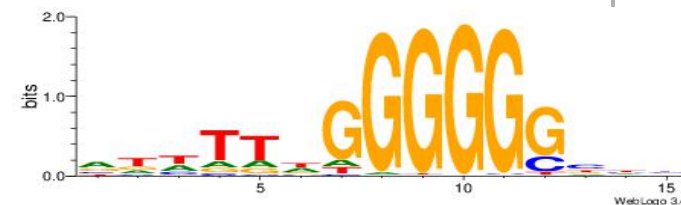
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11

Similarity score: 0.00976403

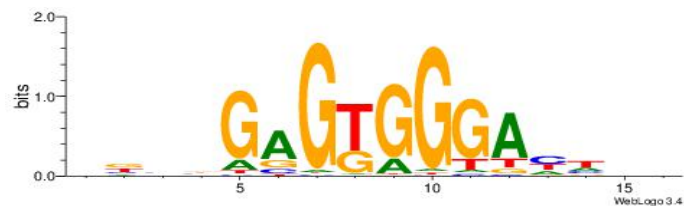
Alignment:

BBHBGAGTGGGAHHDB

---DVAGGGGGADD---

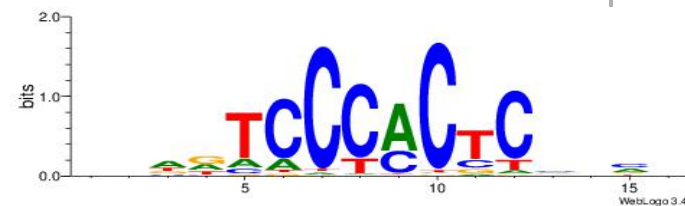
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV



Motif ID: [UP00021](#)
Motif name: Zfp281_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: 11
Similarity score: 0.0106708

Alignment:

DKKWDACCCCAHTDDV

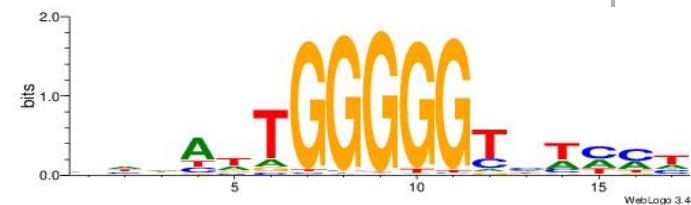
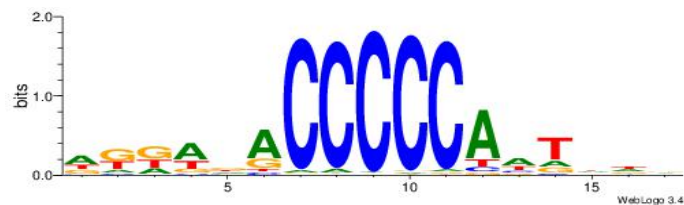
---HDTCCCCCTVH---

Original motif

Consensus sequence: DKKWDACCCCAHTDDV

Reverse complement motif

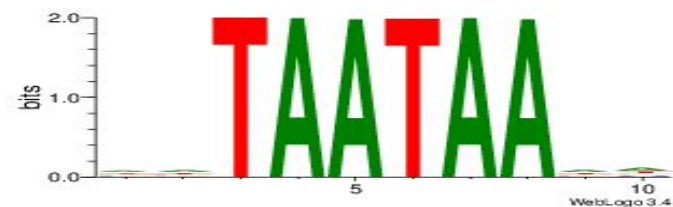
Consensus sequence: VDDAHTGGGGGTHWYYD



Dataset #: 4 **Motif ID: 100** **Motif name: wwTAATAAww**

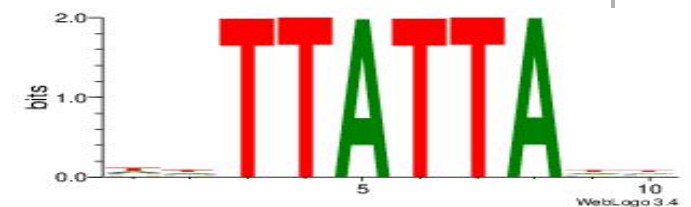
Original motif

Consensus sequence: DHTAATAADD



Reverse complement motif

Consensus sequence: DDTTATTAHD



Best Matches for Motif ID 100 (Highest to Lowest)

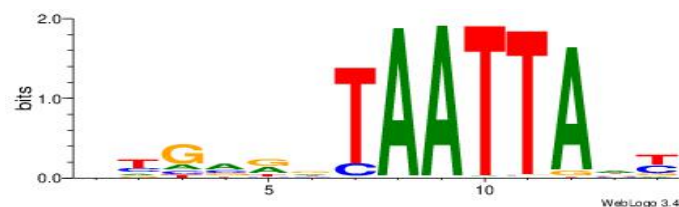
Motif ID:	UP00202
Motif name:	Dlx1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0

Alignment:

BHGVRDTAATTADY
-----DHTAATAADD

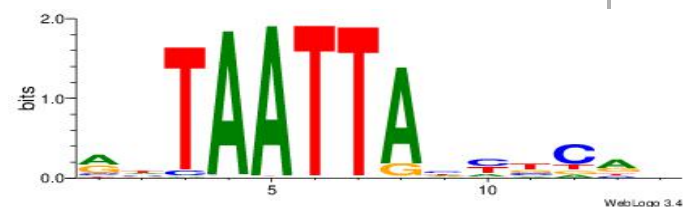
Original motif

Consensus sequence: BHGVRDTAATTADY



Reverse complement motif

Consensus sequence: MDTAATTAHMBCHB



Motif ID:	UP00254
Motif name:	Pou2f1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.00229164

Alignment:

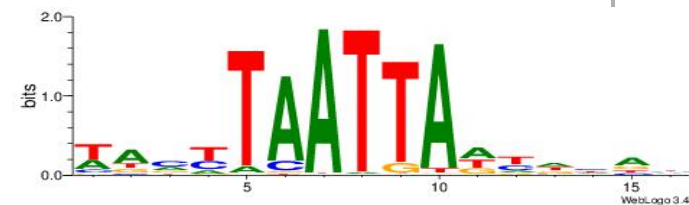
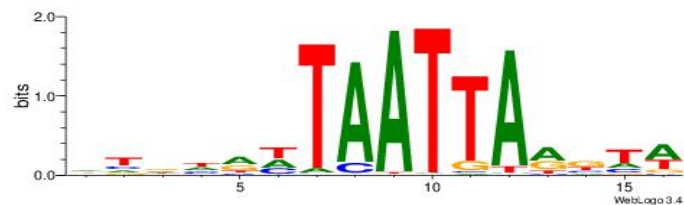
WABKTAATTAKHHHD
--DDTTATTAHD----

Original motif

Consensus sequence: DHDHRHTAATTARBTW

Reverse complement motif

Consensus sequence: WABKTAATTAKHHHD

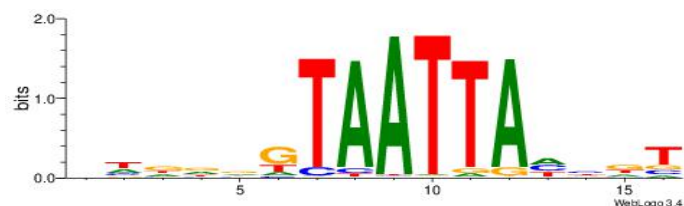


Motif ID: [UP00242](#)
 Motif name: Hoxc8
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.00454573

Alignment:
 BHDDDGTAAATTAHHDT
 ----DHTAATAADD--

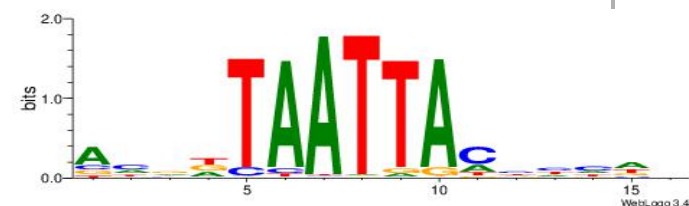
Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV



Motif ID: [UP00164](#)

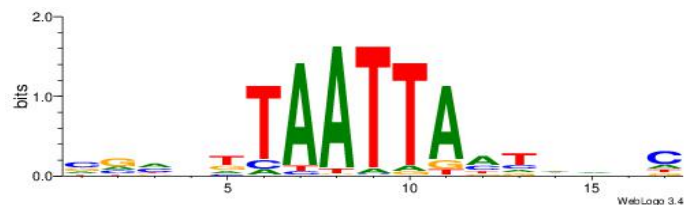
Motif name: Hoxa7_2668.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00628744

Alignment:

VVHDDTAATTAHTDDBC
 ---DDTTATTAHD----

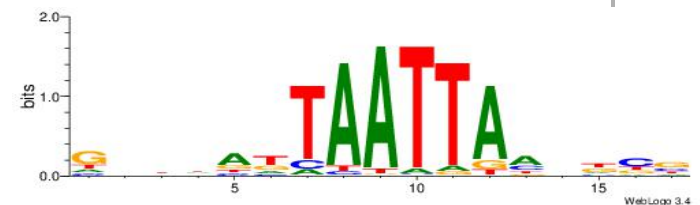
Original motif

Consensus sequence: VVHDDTAATTAHTDDBC



Reverse complement motif

Consensus sequence: GBDDAHTAATTADHHV



Motif ID: [UP00188](#)
 Motif name: Lmx1a
 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: 0.00687588

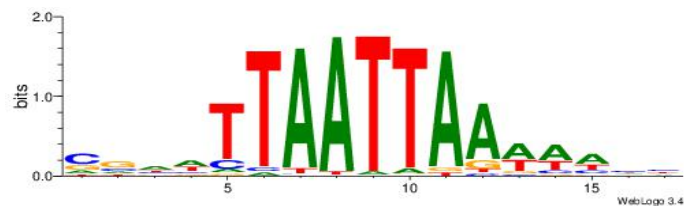
Alignment:

BDWWTTAATTAAHHVG

----DDTTATTAHD---

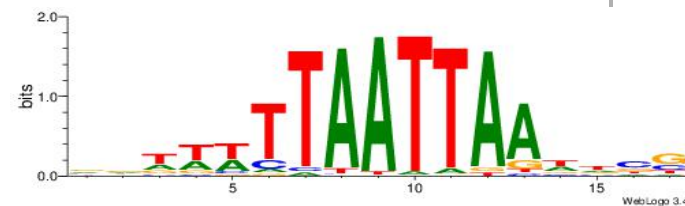
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWTTAATTAAHHVG



Dataset #: 4 **Motif ID: 101** **Motif name: csCACCCCgg**

Original motif

Consensus sequence: HVCACCCCBB



Reverse complement motif

Consensus sequence: BBGGGGTGVD



Best Matches for Motif ID 101 (Highest to Lowest)

Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:

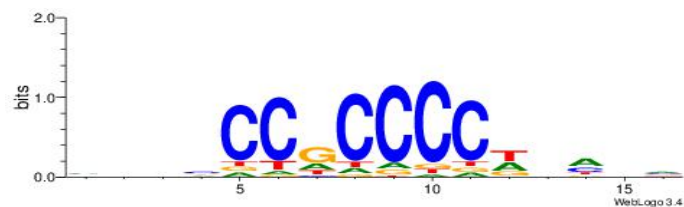
```

HBBBCCGCCCCWHHHV
---HVCACCCCB---

```

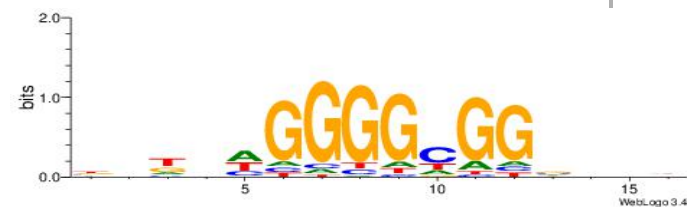
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



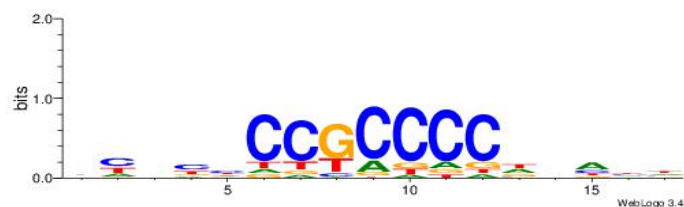
Motif ID:	UP00033
Motif name:	Zfp410_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.00537553

Alignment:

HHHHDGGGGCGGDBHDV
---BBGGGGTGVD---

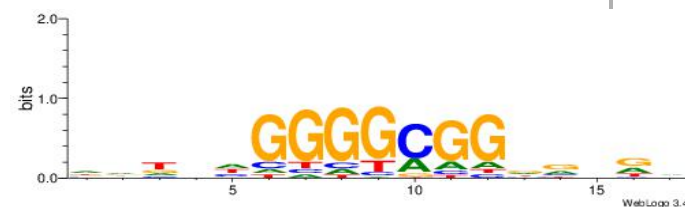
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.00656484

Alignment:

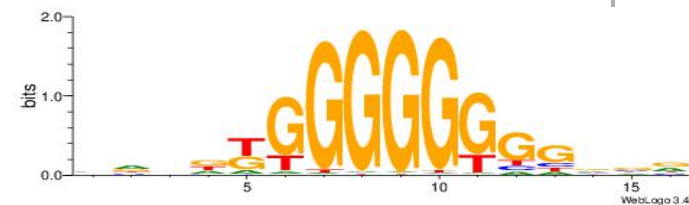
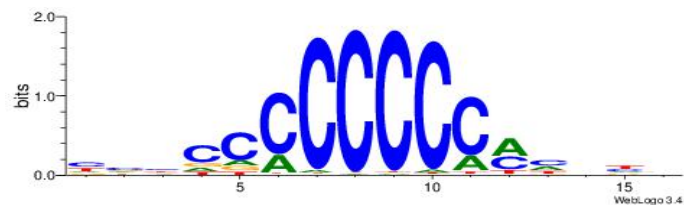
BHHDYGGGGGGGGBVD
---BBGGGGTGVD---

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD

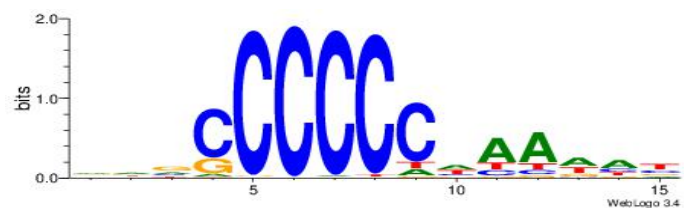


Motif ID: [UP00047](#)
 Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.007042

Alignment:
 VHWTTGGGGGGVDD
 ----BBGGGGTGVD-

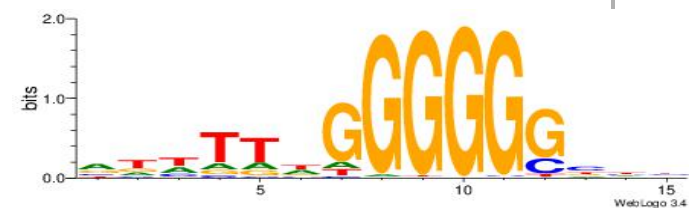
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTGGGGGGVDD



Motif ID: [UP00022](#)

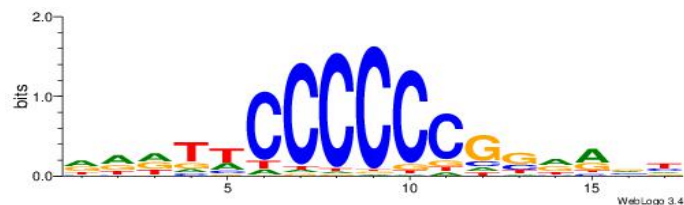
Motif name: Zfp740_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00824602

Alignment:

HVKDCCGGGGGGWADDD
 ----BBGGGGTGVD---

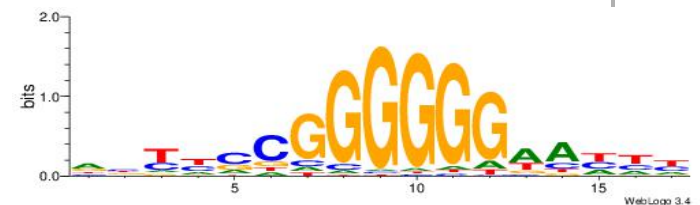
Original motif

Consensus sequence: DDDTWCCCCCGGDRVH



Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD



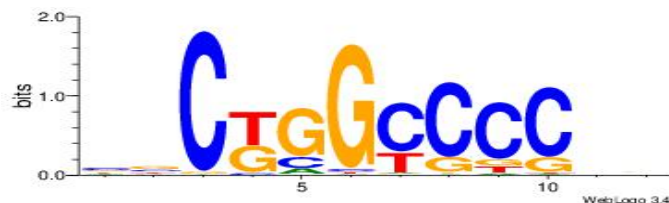
Dataset #: 4 Motif ID: 102 Motif name: ssCkGGYCCCsg

Original motif

Consensus sequence: BBCKGGCCCCV

Reverse complement motif

Consensus sequence: VVGGGGCCRBB



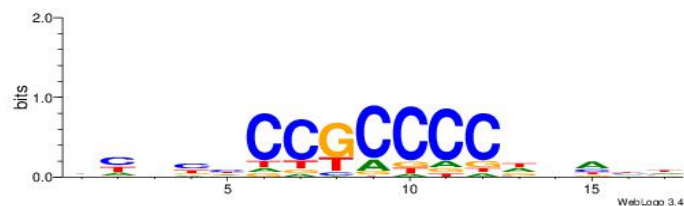
Best Matches for Motif ID 102 (Highest to Lowest)

Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0169484

Alignment:
 HHHHDGGGGCGGDBHDV
 ---VVGGGGCCRBB--

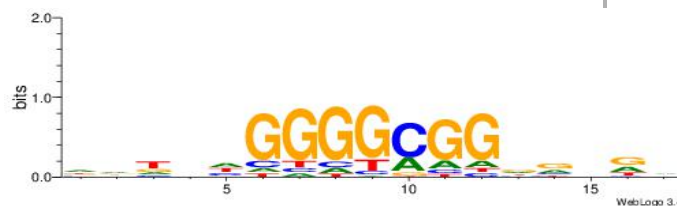
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



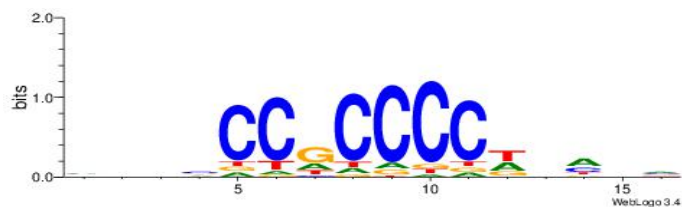
Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0175288

Alignment:

BHHHWGGGGCGGBBVH
 ---VVGGGGCCRBB-

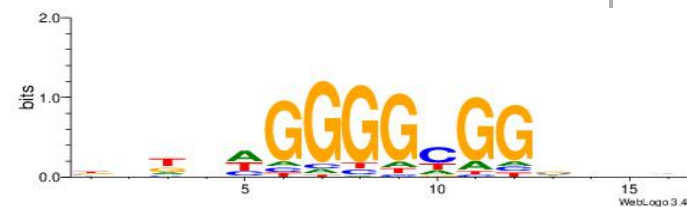
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

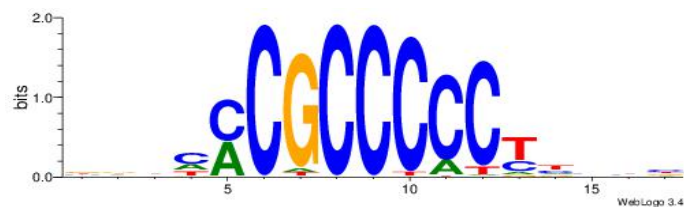
Number of overlap: 12
Similarity score: 0.0227378

Alignment:

BVVHAGGGGGCGRDHBB
----VVGGGGCCRBB--

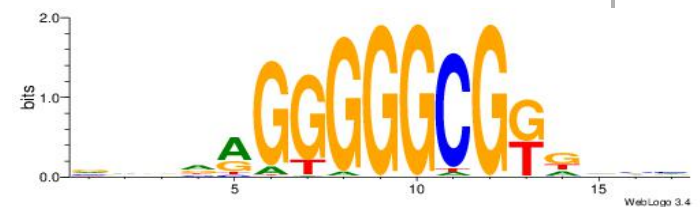
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00003](#)
Motif name: E2F3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0249423

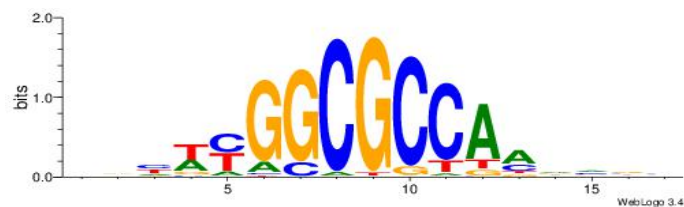
Alignment:

BBBDYTGGCGCKWDBD
--BBCKGGCCCCV---

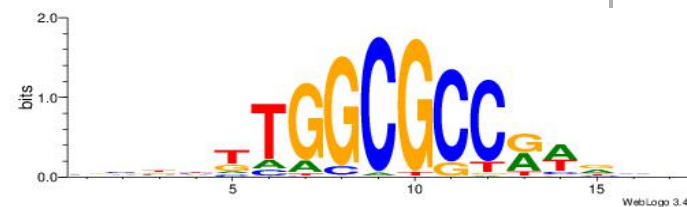
Original motif

Reverse complement motif

Consensus sequence: HBHWYGGCGCCAMDVB



Consensus sequence: BBBDYTGGCGCKWDBD



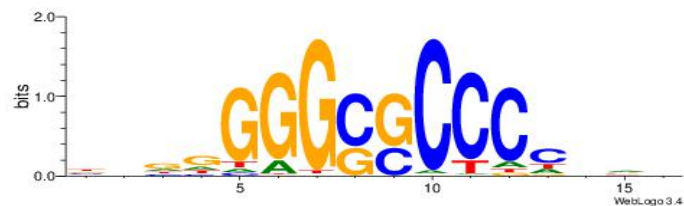
Motif ID: [UP00088](#)
Motif name: Plagl1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0253681

Alignment:

BHDGGGGSSCCCCBVV
-BBCKGGCCCCV---

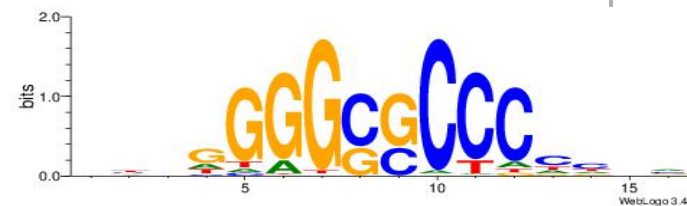
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

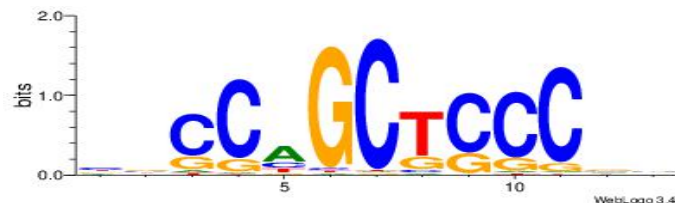
Consensus sequence: VBVGGGGSSCCCCHHV



Dataset #: 4 Motif ID: 103 Motif name: csCCaGCTCCCgs

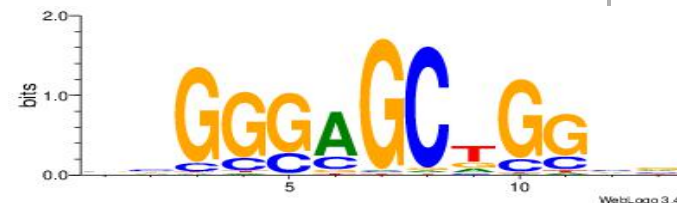
Original motif

Consensus sequence: BBCCAGCTCCCVB



Reverse complement motif

Consensus sequence: BVGGGAGCTGGBB



Best Matches for Motif ID 103 (Highest to Lowest)

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:	13
Similarity score:	0.0202226

Alignment:

BBYVVCAGCTGCBVHHD

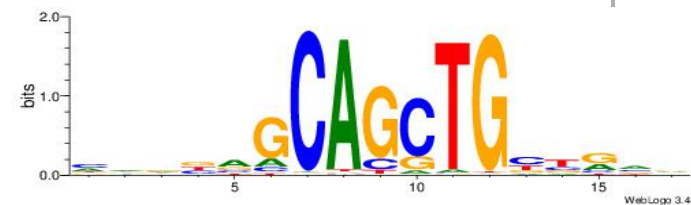
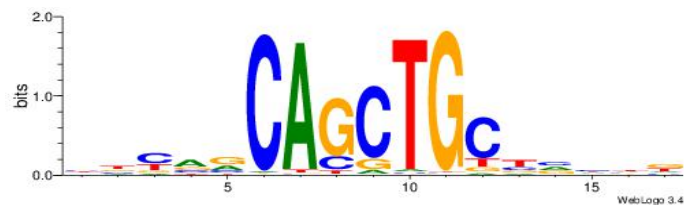
--BBCCAGCTCCCVB--

Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD

Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB

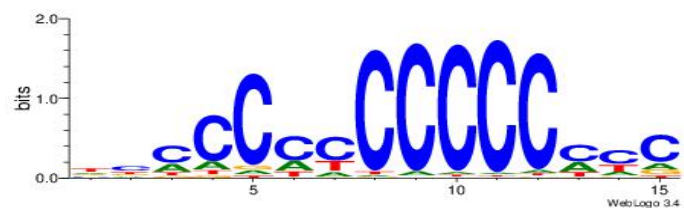


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0208734

Alignment:
 DBCCCCCCCCCMYC
 -BBCCAGCTCCCVB-

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00081](#)

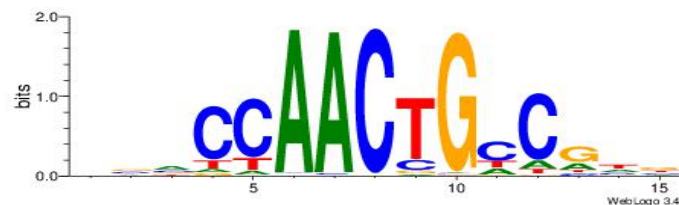
Motif name: Mybl1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0210344

Alignment:

BHCGGCAGTTGGBBB
 -BVGGGAGCTGGBB-

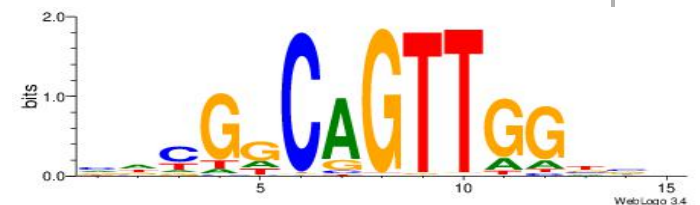
Original motif

Consensus sequence: BBVCCAAGTCCGHB



Reverse complement motif

Consensus sequence: BHCGGCAGTTGGBBB



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: Forward
 Position number: 3
 Number of overlap: 13

Similarity score: 0.0215827

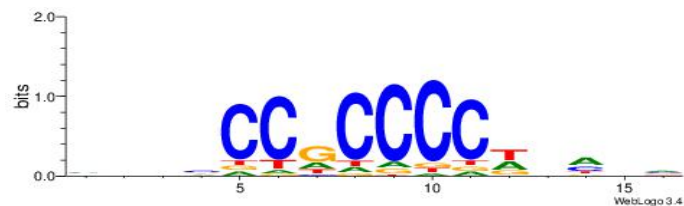
Alignment:

BHHHWGGGGCGGBBVH

--BVGGGAGCTGGBB--

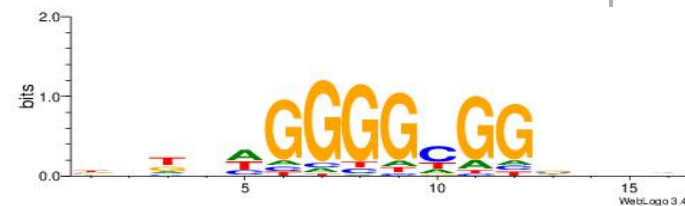
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0226705

Alignment:

HHHHDGGGGCGGDBHDV

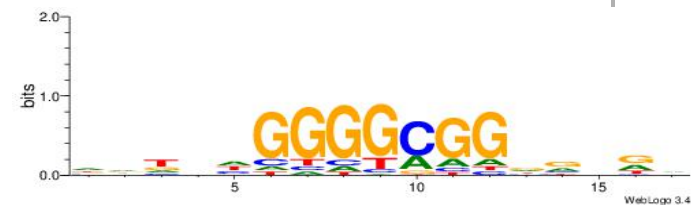
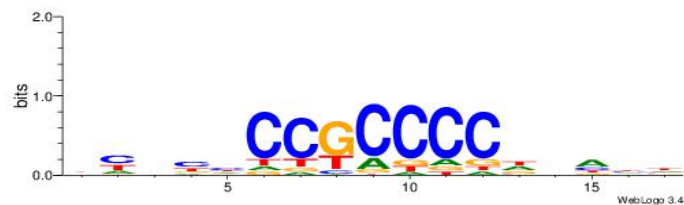
--BVGGGAGCTGGBB--

Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH

Reverse complement motif

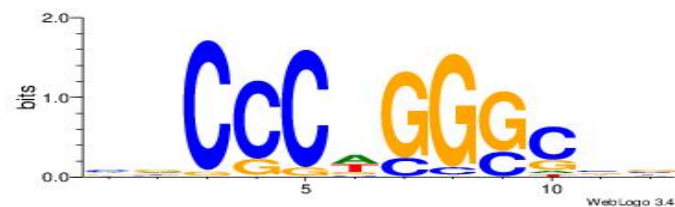
Consensus sequence: HHHHDGGGGCGGDBHDV



Dataset #: 4 Motif ID: 104 Motif name: cgCCCwGGScsg

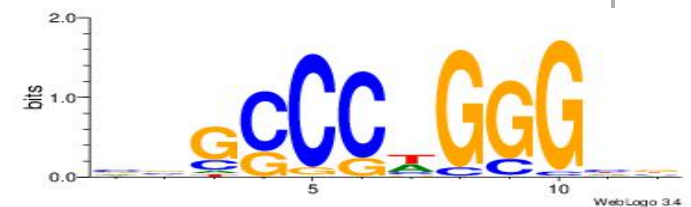
Original motif

Consensus sequence: VDCCCWGGGCBB



Reverse complement motif

Consensus sequence: BBGCCCWGGGHV



Best Matches for Motif ID 104 (Highest to Lowest)

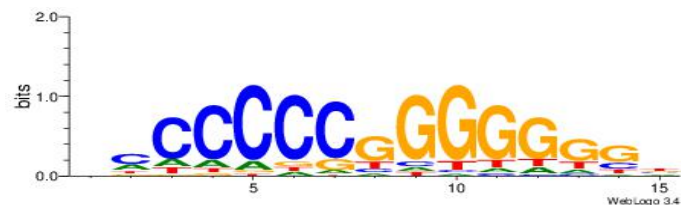
Motif ID:	UP00057
Motif name:	Zic2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0278909

Alignment:

BMCCCCGGGGGGGB
--VDCCCWGGGCBB--

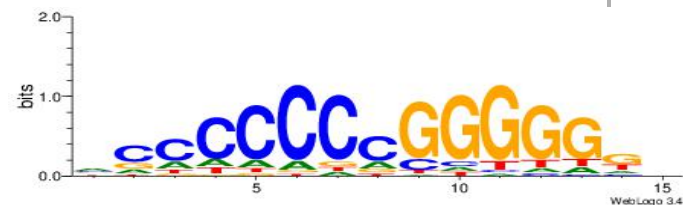
Original motif

Consensus sequence: BMCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB



Motif ID:	UP00006
Motif name:	Zic3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0289126

Alignment:

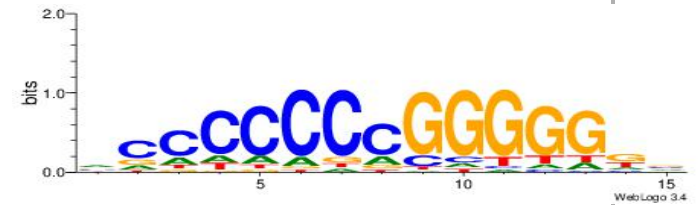
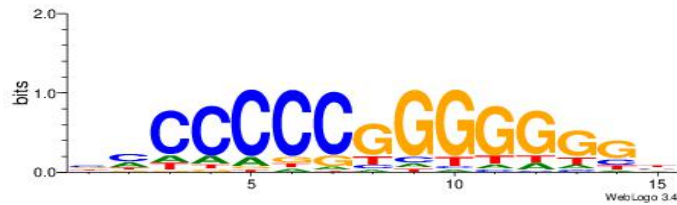
BMCCCCGGGGGGGB
--VDCCCWGGGCBB--

Original motif

Consensus sequence: BMCCCCGGGGGGGB

Reverse complement motif

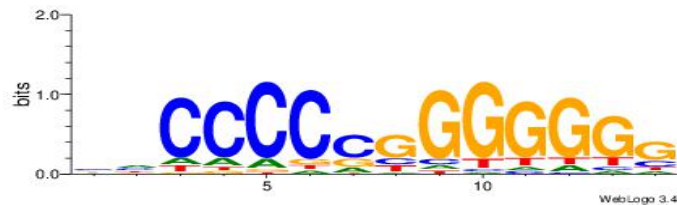
Consensus sequence: VCCCCCGGGGGRB



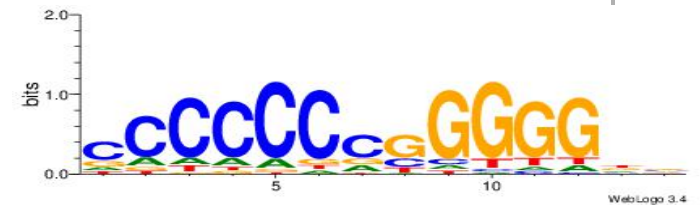
Motif ID: [UP00102](#)
 Motif name: Zic1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.029683

Alignment:
 BHCCCCCGGGGGG
 --VDCCCWGGGCBB

Original motif
 Consensus sequence: BHCCCCCGGGGGG



Reverse complement motif
 Consensus sequence: CCCCCCGGGGHB



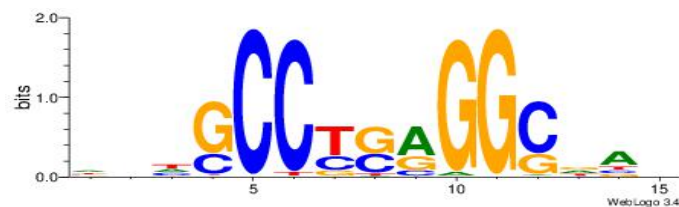
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary

Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0336763

Alignment:
 HHHGCCTSAGGCDAD
 -BBGCCCWGGGHV--

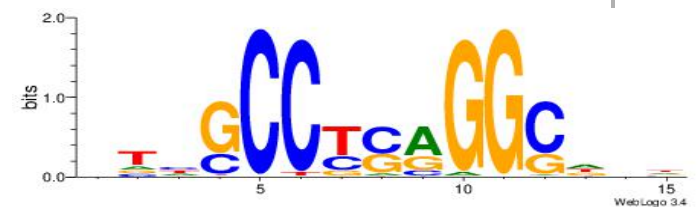
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



Motif ID: [UP00087](#)
 Motif name: Tcfap2c_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0349474

Alignment:

WHHSCCYSRGGSDAD

-BBGCCCWGGGHV--

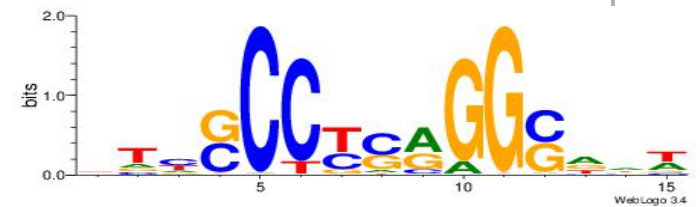
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



Dataset #: 4 Motif ID: 105 Motif name: ccGCAGCCss

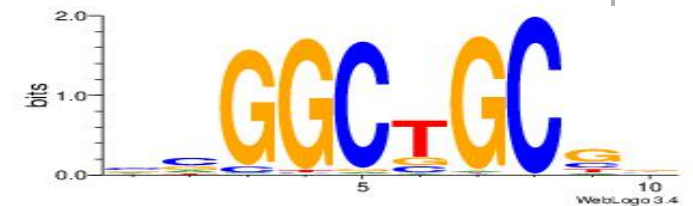
Original motif

Consensus sequence: VCGCAGCCBB



Reverse complement motif

Consensus sequence: BBGGCTGCGV



Best Matches for Motif ID 105 (Highest to Lowest)

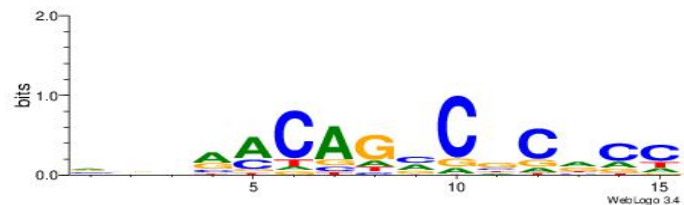
Motif ID:	UP00036
Motif name:	Myf6_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.010084

Alignment:
GGDGBGVCTGTKVVB
---BBGGCTGCGV--

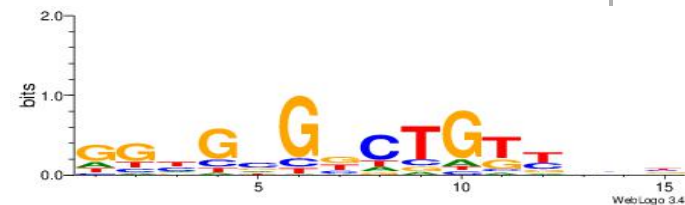
Original motif

Consensus sequence: VVVRACAGVCBCDCC



Reverse complement motif

Consensus sequence: GGDGBGVCTGTKVVB



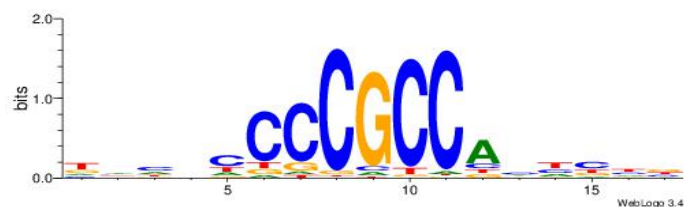
Motif ID: [UP000000](#)
Motif name: Smad3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0132463

Alignment:

BHBHDTGGCGGGBDHD
----BBGGCTGCGV----

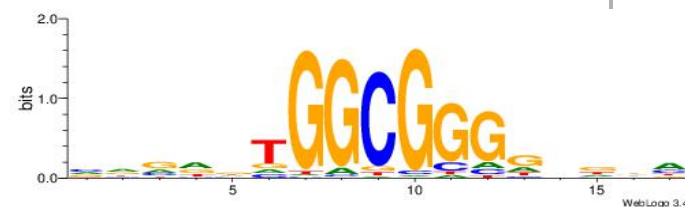
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID:	UP00099
Motif name:	Ascl2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0166617

Alignment:

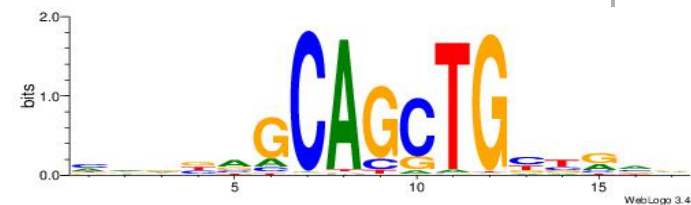
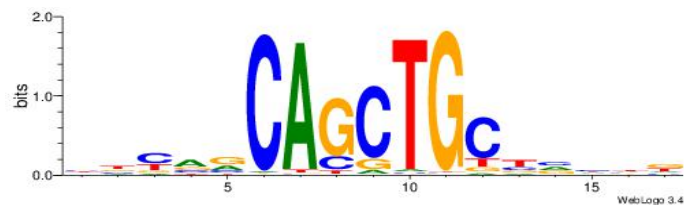
HHDVVGCAGCTGVBKVB
---VCGCAGCCBB----

Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD

Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB

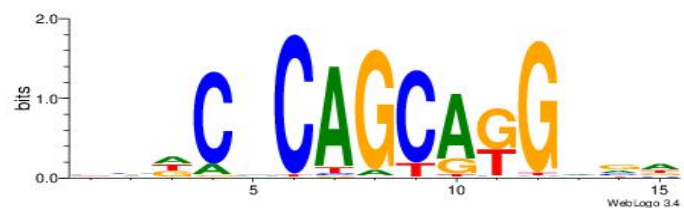


Motif ID: [UP00057](#)
 Motif name: Zic2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0227026

Alignment:
 DVBCYTGCTGBGDDD
 ---BBGGCTGCGV--

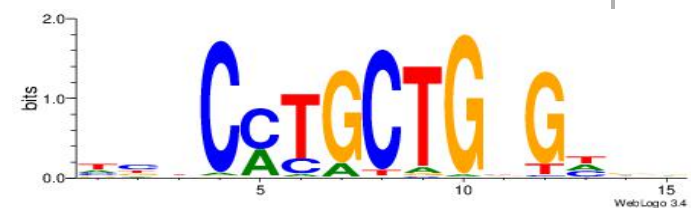
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Motif ID: [UP00527](#)

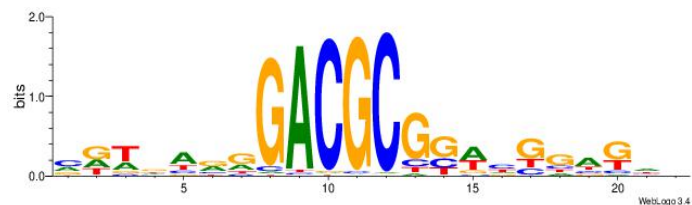
Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0228762

Alignment:

VDWDARRGACGCGGWHGGAHV
 ----BBGGCTGCGV-----

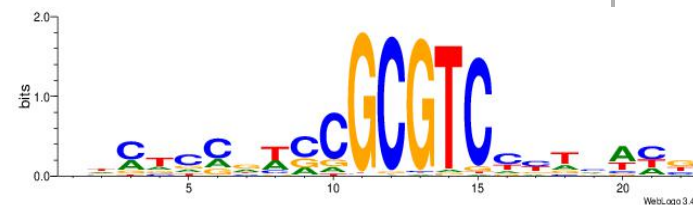
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



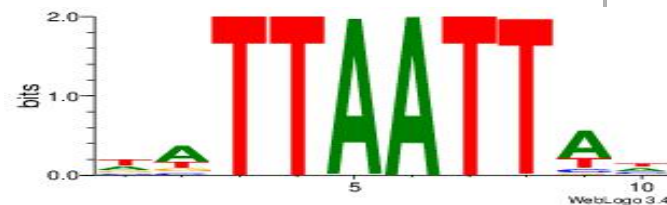
Dataset #: 4 Motif ID: 106 Motif name: wtAATTAAtw

Original motif

Consensus sequence: DTAATTAATH

Reverse complement motif

Consensus sequence: HATTAATTAD



Best Matches for Motif ID 106 (Highest to Lowest)

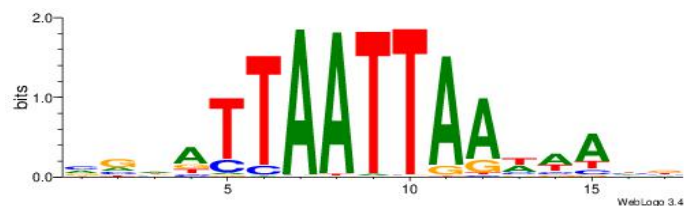
Motif ID: [UP00262](#)
 Motif name: Lhx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0

Alignment:

BHTWWTTAATTAATDVV
 -----DTAATTAATH--

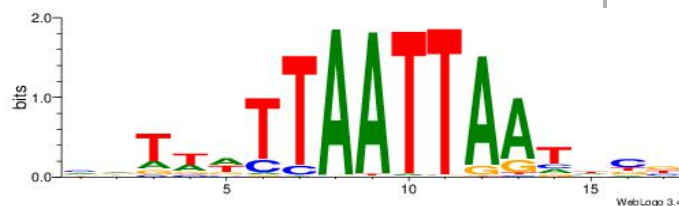
Original motif

Consensus sequence: VVDATTAATTAAWWAHB



Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV



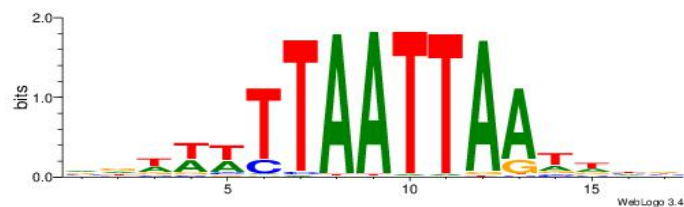
Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.00156097

Alignment:

BHDATTAATTAAWWWHB
 --HATTAATTAD-----

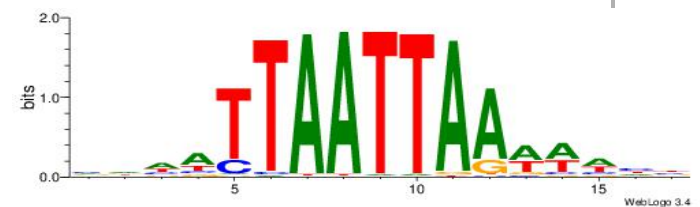
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00196](#)
 Motif name: Hoxa4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

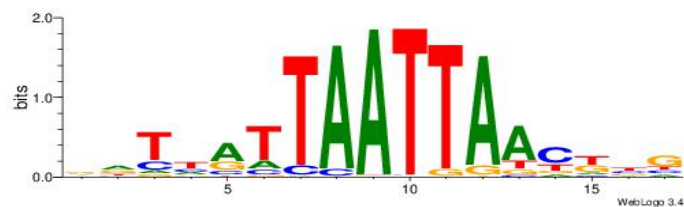
Number of overlap: 10
Similarity score: 0.00196821

Alignment:

DDTHATTAATTAACKBG
---HATTAATTAD----

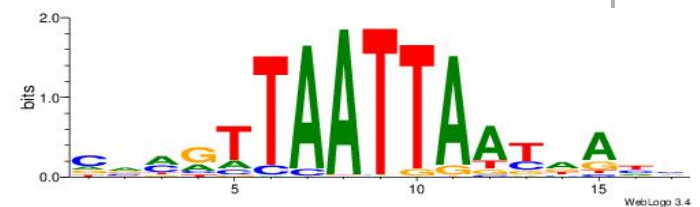
Original motif

Consensus sequence: DDTHATTAATTAACKBG



Reverse complement motif

Consensus sequence: CVRGTTAATTAATHADH



Motif ID: [UP00238](#)
Motif name: Nkx6-3
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: 0.00207435

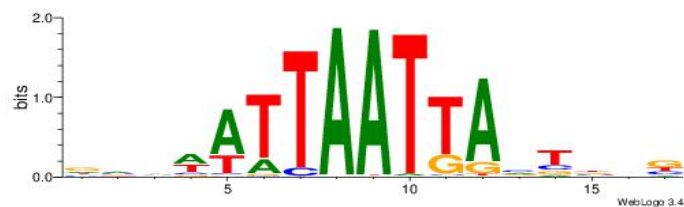
Alignment:

DVHWATTAATTAVTBBB
---HATTAATTAD----

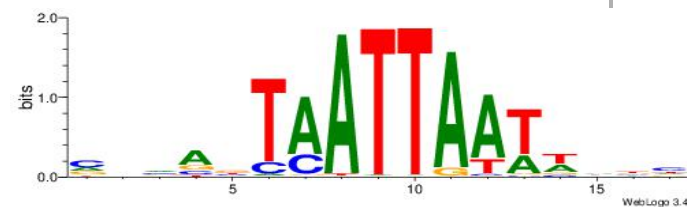
Original motif

Reverse complement motif

Consensus sequence: DVHWATTAATTAVTBBB



Consensus sequence: BVVAVTAATTAATWHBH



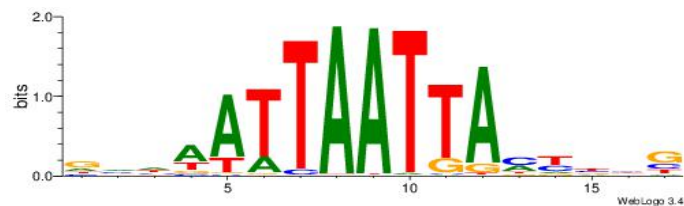
Motif ID: [UP00200](#)
Motif name: Nkx6-1_2825.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.00251648

Alignment:

CBVMRTAATTAATTHBH
-----DTAATTAATH---

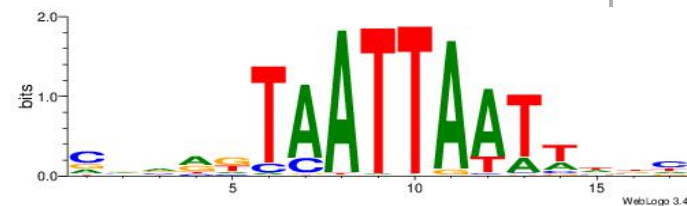
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



Dataset #: 4 **Motif ID: 107** **Motif name: crCGyGCRcg**

Original motif

Consensus sequence: CGCGTGCACG



Reverse complement motif

Consensus sequence: CGTGACGCGC



Best Matches for Motif ID 107 (Highest to Lowest)

Motif ID:	UP00065
Motif name:	Zfp161_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0

Alignment:

DDGCGCGCGCRCHYRD

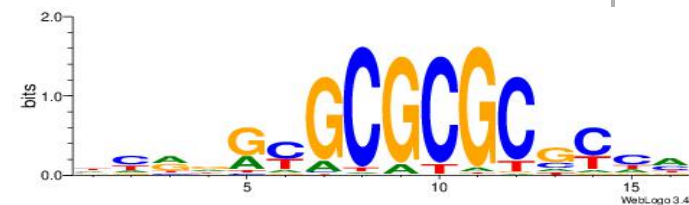
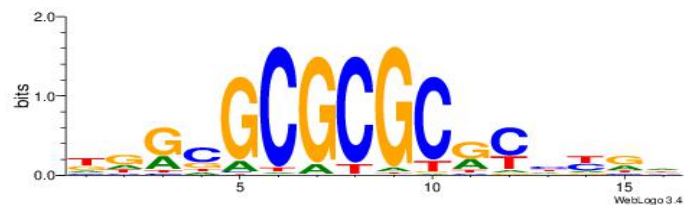
---CGCGTGCACG---

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMM DGMGCGCGCGCHD



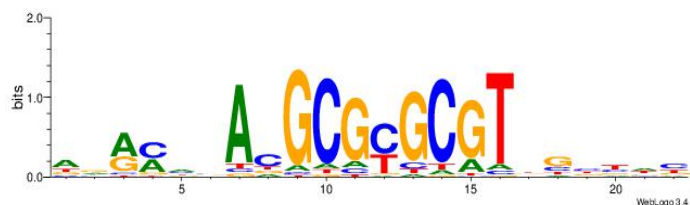
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0113553

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -----CGCGTGCACG-----

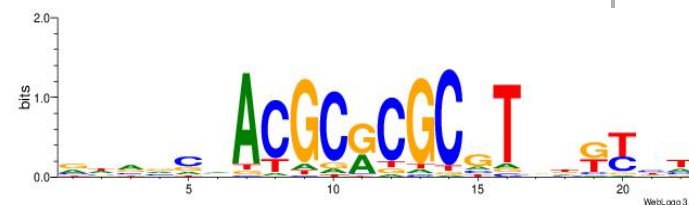
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Motif ID: [UP00526](#)

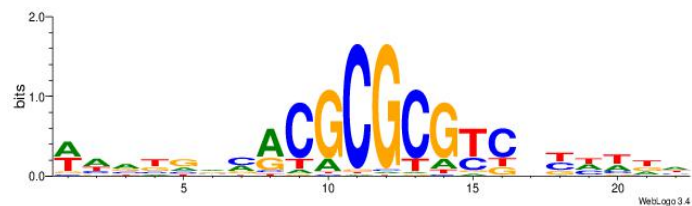
Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0247731

Alignment:

WHVBVVMACGCGCGTCDYHWDH
 -----CGCGTGCACG-----

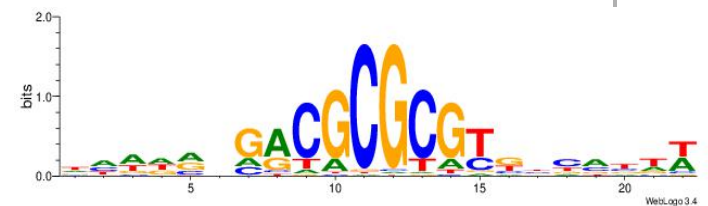
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW

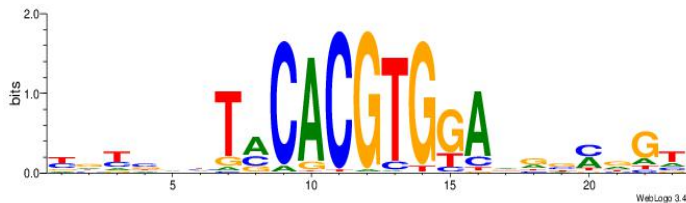


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 10

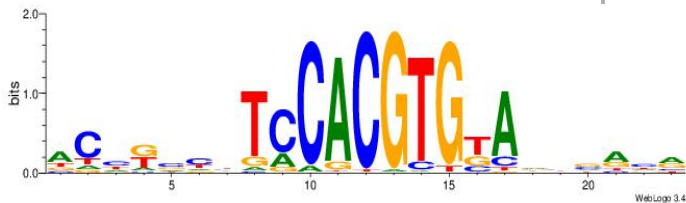
Similarity score: 0.0252308

Alignment:
ACHRBHDTCCACGTGYAHBMMH
-----CGCGTGCACG-----

Original motif
Consensus sequence: YD YBDHTMCACGTGGADDBMDGT



Reverse complement motif
Consensus sequence: ACHRBHDTCCACGTGYAHBMMH

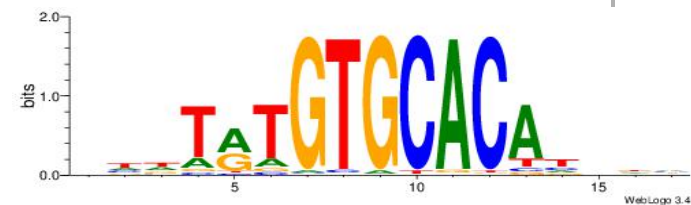
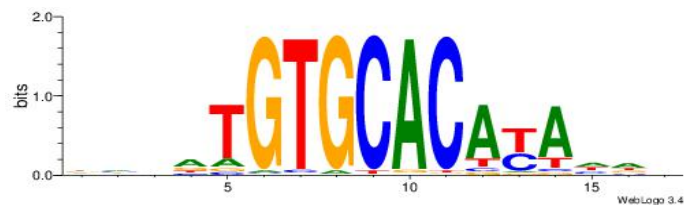


Motif ID: [UP00026](#)
Motif name: Zscan4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.025406

Alignment:
DHVDTGTGCACAYAHDH
--CGCGTGCACG-----

Original motif
Consensus sequence: DHVDTGTGCACAYAHDH

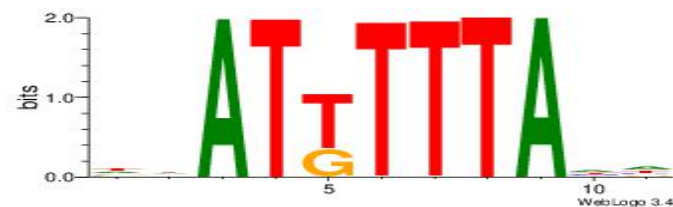
Reverse complement motif
Consensus sequence: HDHTMTGTGCACADVHD



Dataset #: 4 Motif ID: 108 Motif name: wwATkTTTAww

Original motif

Consensus sequence: DHATKTTTAHH



Reverse complement motif

Consensus sequence: HHTAAARATHD



Best Matches for Motif ID 108 (Highest to Lowest)

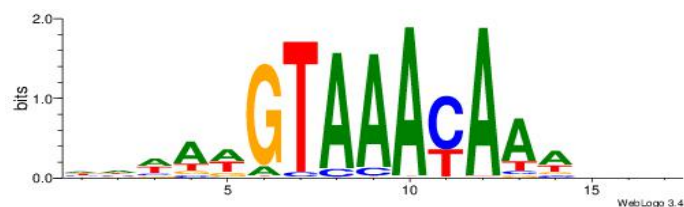
Motif ID:	UP00073
Motif name:	Foxa2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0

Alignment:

BDVTTTKTTTACWTWHH
--DHATKTTTAHH----

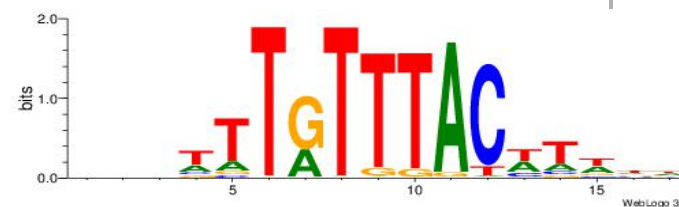
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID:	UP00061
Motif name:	Foxl1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	3.90279e-05

Alignment:

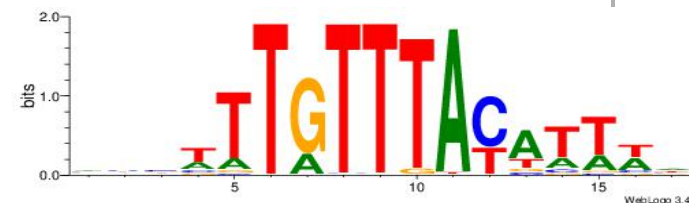
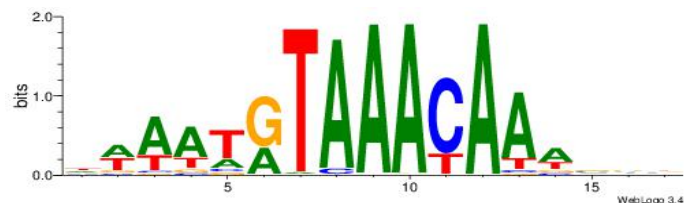
VVVWTTGTTTAMATTWD
--DHATKTTTAHH----

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



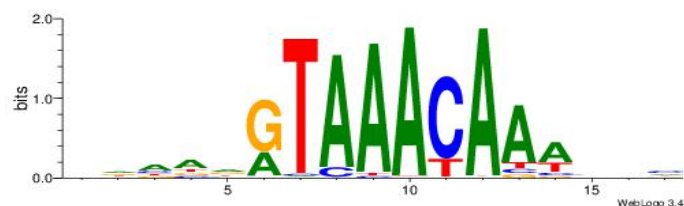
Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.00301688

Alignment:

DVVTTTGTTTACDTHDH
 --DHATKTTTAHH----

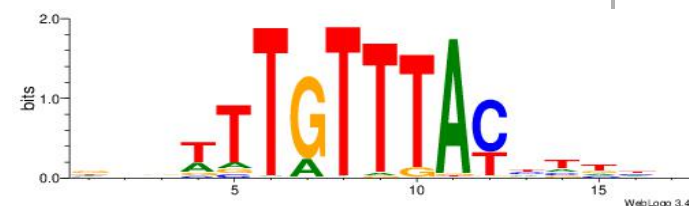
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00025](#)

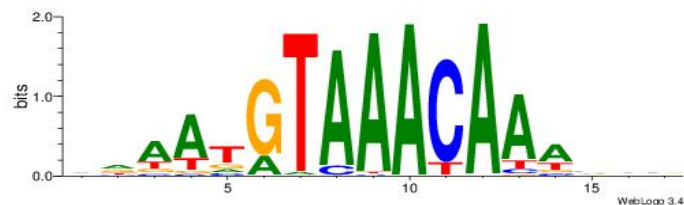
Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00639823

Alignment:

BBVTTTGTTTACATTDD
 --DHATKTTTAHH----

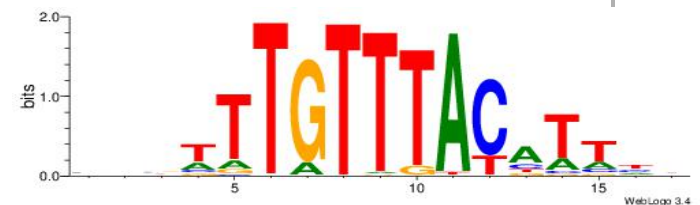
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11

Similarity score: 0.00769803

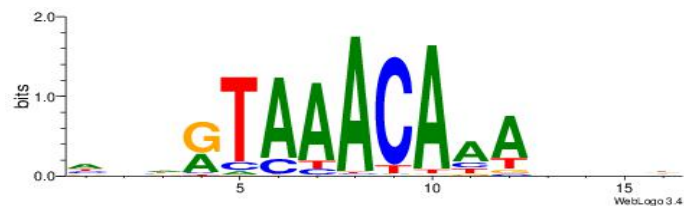
Alignment:

DDHTTTGTTTAMHDH

---DHATKTTTAHH--

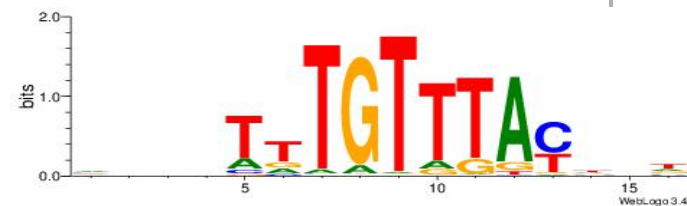
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



Dataset #: 4 Motif ID: 109 Motif name: aaCAAAAACaa

Original motif

Consensus sequence: HHCAAAAACHH



Reverse complement motif

Consensus sequence: HHGTTTTTGHH



Best Matches for Motif ID 109 (Highest to Lowest)

Motif ID:	UP00025
Motif name:	Foxk1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

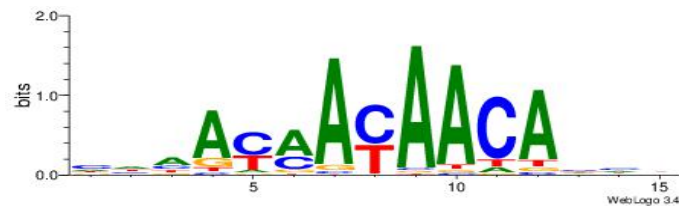
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0

Alignment:

```
HDDTGTTKTTKTHHD
--HHGTTTTTGHH--
```

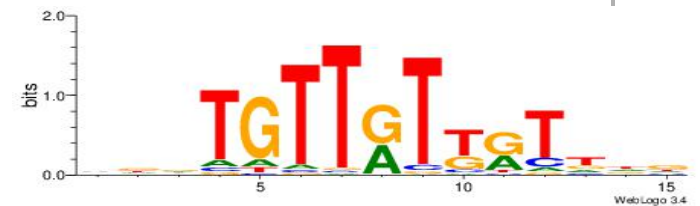
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



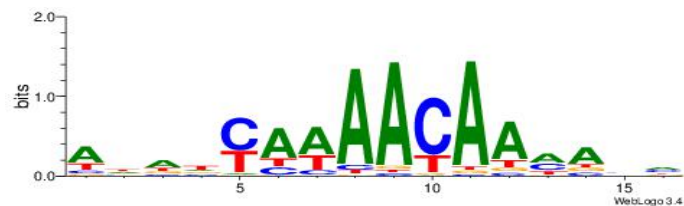
Motif ID:	UP00061
Motif name:	Foxl1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0170113

Alignment:

HDTYTTGTTWTKDDDT
 ----HHGTTTTTGHH-

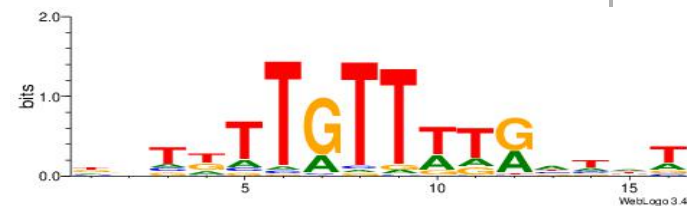
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID:	UP00037
Motif name:	Zfp105_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0175316

Alignment:

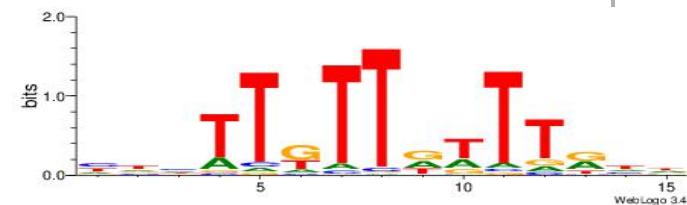
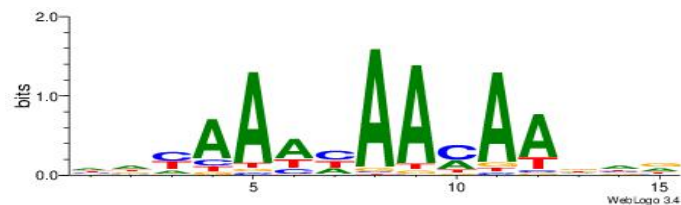
HDYAAHAAMAADHD
 ----HHCAAAAACHH

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

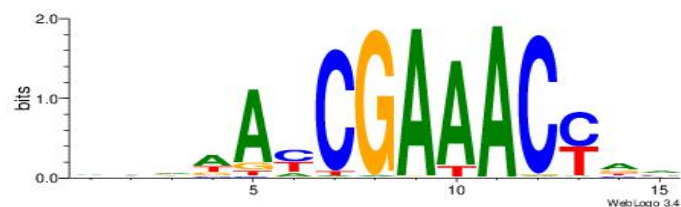
Consensus sequence: HHHTTRTTDTTTKDH



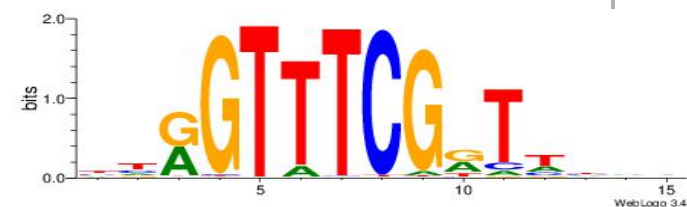
Motif ID: [UP00040](#)
 Motif name: Irf5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0176547

Alignment:
 BDKGTTTCGKTWDDD
 HHGTTTTTGH-----

Original motif
 Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif
 Consensus sequence: BDKGTTTCGKTWDDD



Motif ID: [UP00011](#)
 Motif name: Irf6_primary

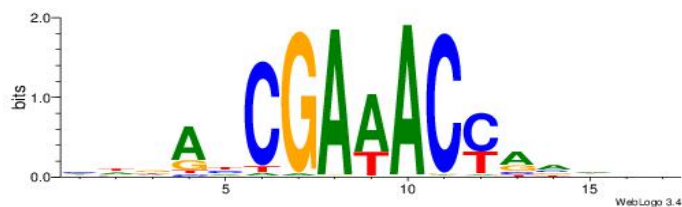
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0176921

Alignment:

HDDAHCGAAACYAVDDD
 ---HHCAAAAACHH---

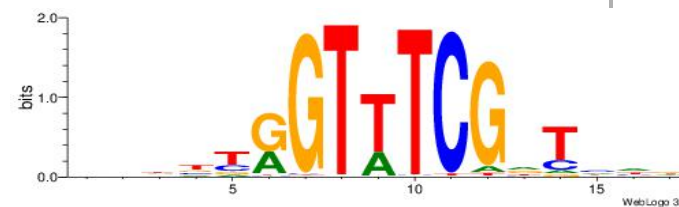
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

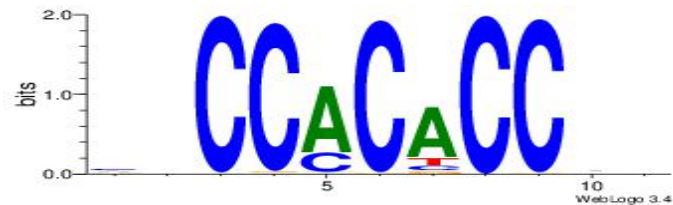
Consensus sequence: DHDBTKGTTTCGHTHDD



Dataset #: 4 Motif ID: 110 Motif name: cmCCACACCm

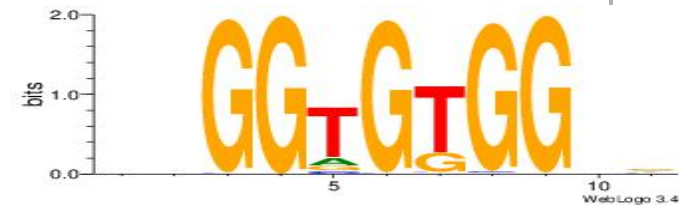
Original motif

Consensus sequence: HVCCACACCBV



Reverse complement motif

Consensus sequence: VBGGTGTGGBD



Best Matches for Motif ID 110 (Highest to Lowest)

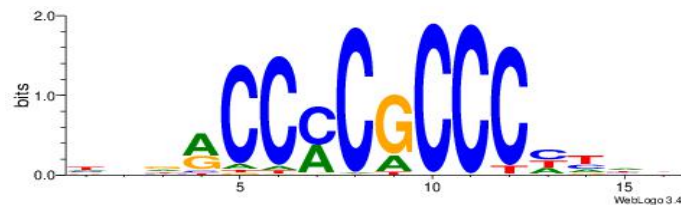
Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0

Alignment:

HBDRCCMCGCCCHHHD
--HVCCACACCBV---

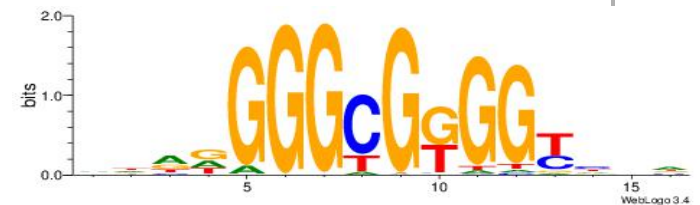
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement

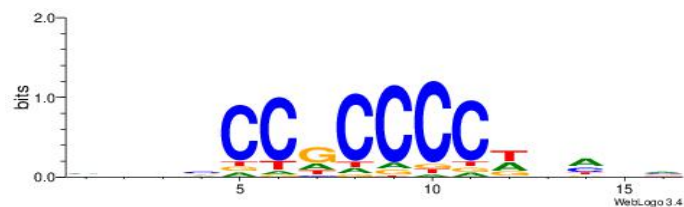
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.00667141

Alignment:

```
BHHHWGGGGCGGBBVH
---VBGGTGTGGBD--
```

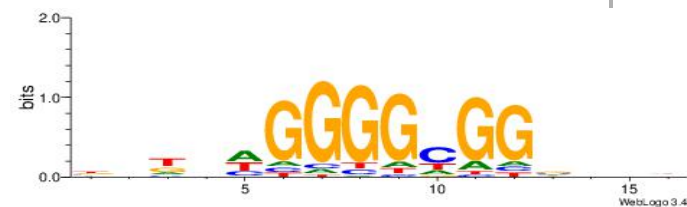
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



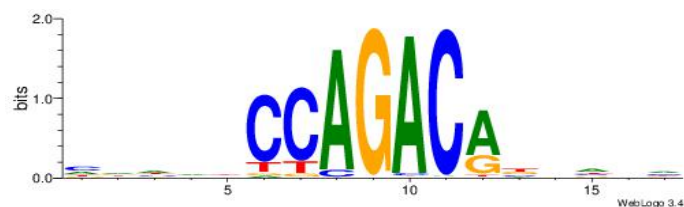
Motif ID:	UP00000
Motif name:	Smad3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.00715345

Alignment:

HVHBVTGTCTGGDDHDD
---VBGGTGTGGBD---

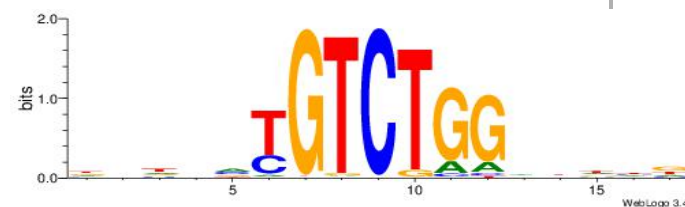
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID:	UP00068
Motif name:	Eomes_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.00885578

Alignment:

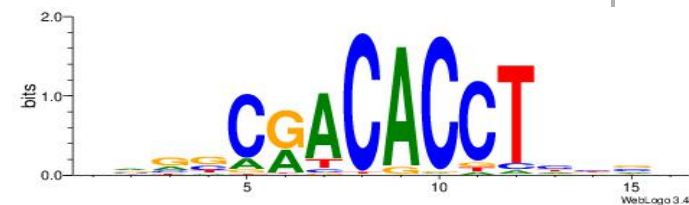
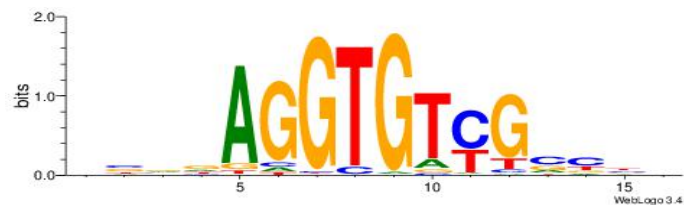
VVBVCKACACCTHVBV
--HVCCACACCBV---

Original motif

Consensus sequence: VBVDAGGTGTYGVBVV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

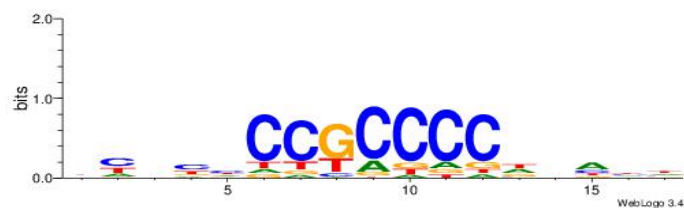


Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00952604

Alignment:
 HHHHDGGGGCGGDBHDV
 ---VBGGTGTGGBD---

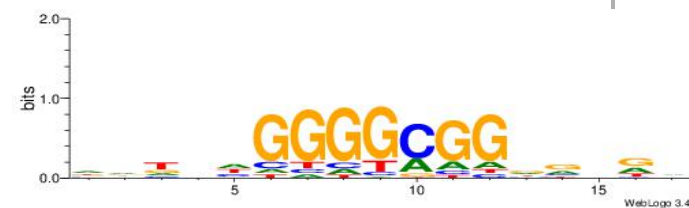
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

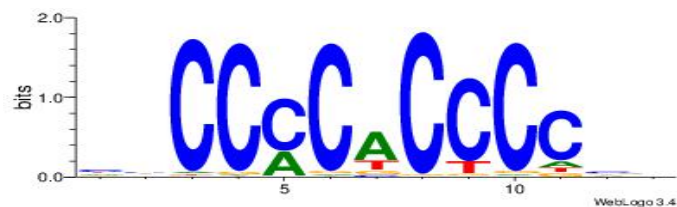
Consensus sequence: HHHHDGGGGCGGDBHDV



Dataset #: 4 **Motif ID: 111** **Motif name: ccCCmCaCCCCcc**

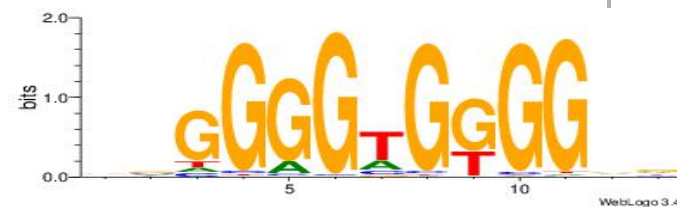
Original motif

Consensus sequence: HBCCCCACCCCBH



Reverse complement motif

Consensus sequence: DBGGGGTGGGGBD



Best Matches for Motif ID 111 (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:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0

Alignment:

DHHDGGGCGRGGKHBH

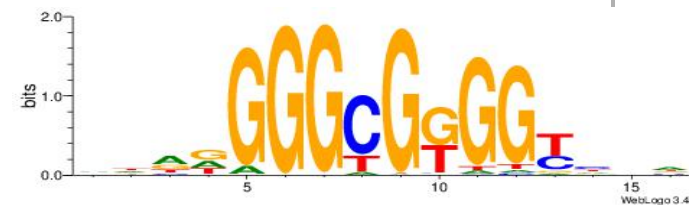
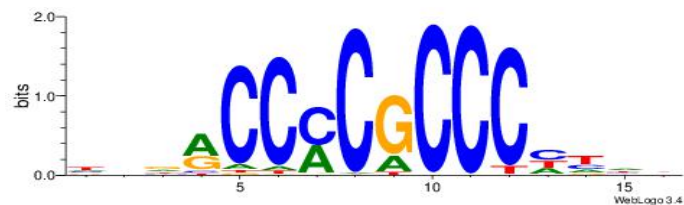
-DBGGGGTGGGGBD--

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

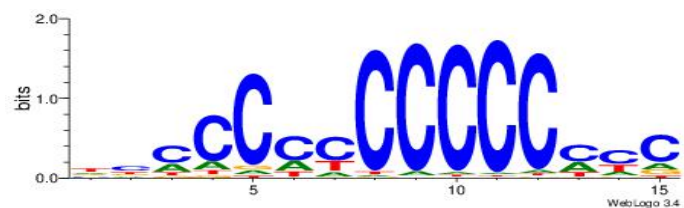
Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.00295406

Alignment:
 GKRGGGGGGGGGGBD
 -DBGGGGTGGGGBD-

Original motif
 Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif
 Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00022](#)

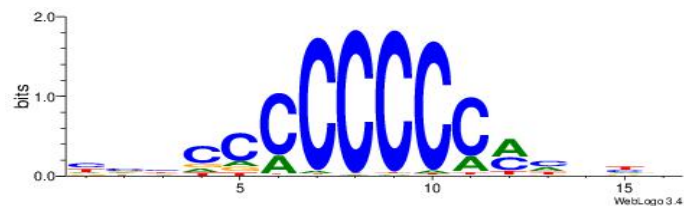
Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.00418721

Alignment:

HVBCCCCCCCCMHHHB
 -HBCCCCACCCCBH--

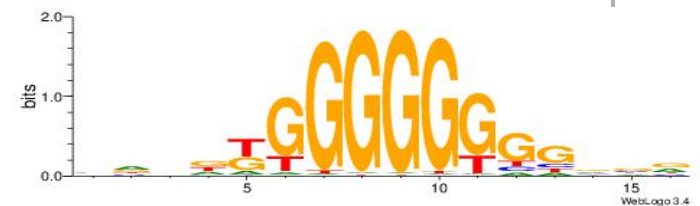
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 13

Similarity score: 0.011156

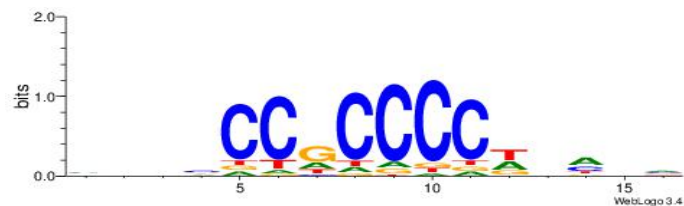
Alignment:

HB BBCCGCCCCW HHHV

HBCCCCACCCCBH---

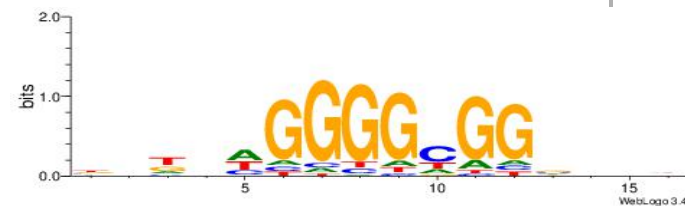
Original motif

Consensus sequence: HB BBCCGCCCCW HHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



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: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0148306

Alignment:

BHHBHCCGCCCCDHHHH

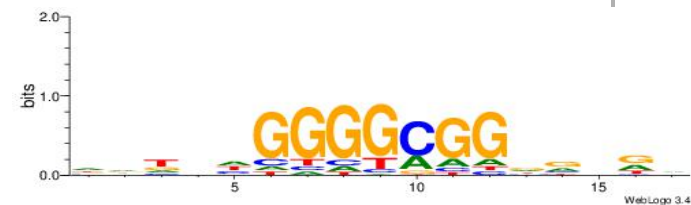
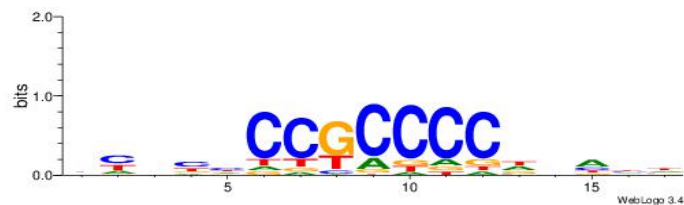
-HBCCCCACCCCBH---

Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH

Reverse complement motif

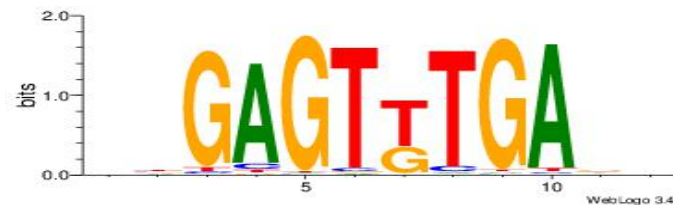
Consensus sequence: HHHHDGGGGCGGDBHDV



Dataset #: 4 Motif ID: 112 Motif name: ctGAGTkTGAgg

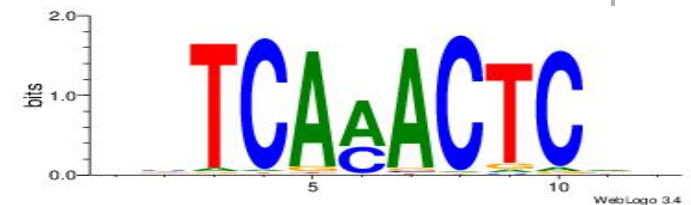
Original motif

Consensus sequence: VBGAGTKTGADD



Reverse complement motif

Consensus sequence: HHTCARACTCVV



Best Matches for Motif ID 112 (Highest to Lowest)

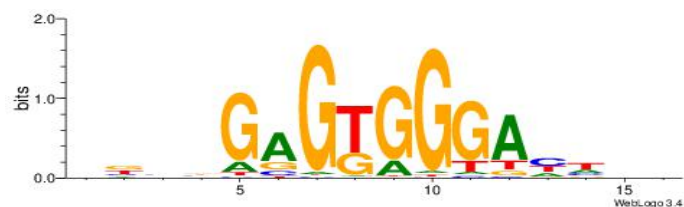
Motif ID:	UP00007
Motif name:	Egr1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0112925

Alignment:

BBHBGAGTGGGAHHDB
--VBGAGTKTGADD--

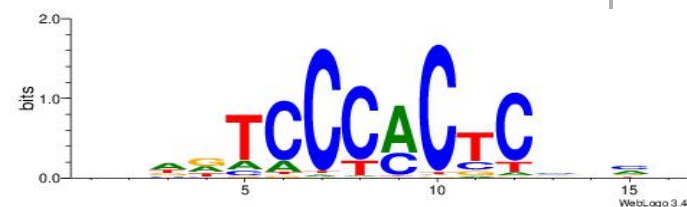
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV



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:	3
Number of overlap:	12
Similarity score:	0.0167722

Alignment:

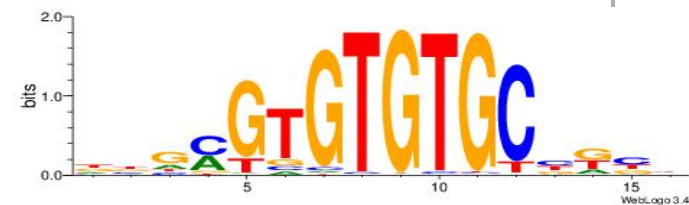
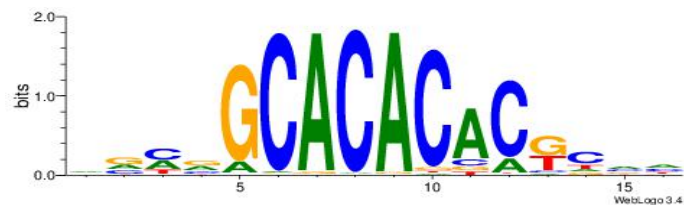
HBGYGTGTGTGCVRVD
--VBGAGTKTGADD--

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

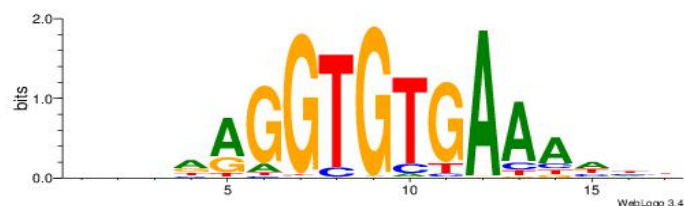


Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0205946

Alignment:
 BVHDAGGTGTGAAHHH
 --VBGAGTKTGADD---

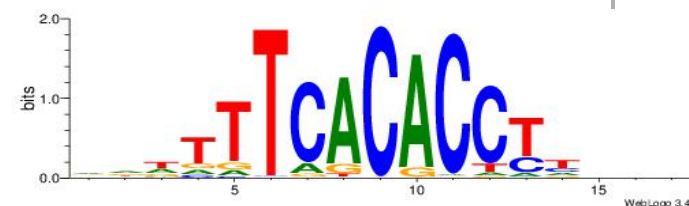
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



Motif ID: [UP00058](#)

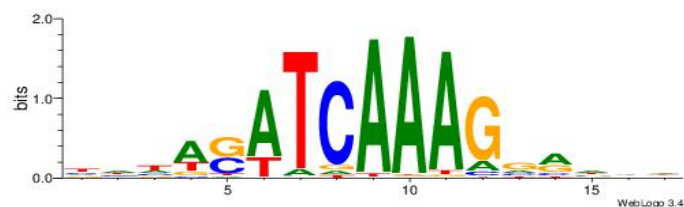
Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0208938

Alignment:

HHHKVCTTTGATSTHHH
 -VBGAGTKTGADD----

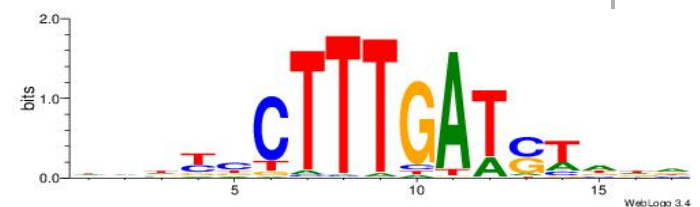
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 12

Similarity score: 0.0229548

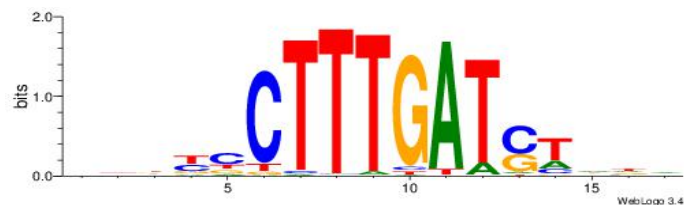
Alignment:

BDDASATCAAAGGMDDD

----HHTCARACTCVV--

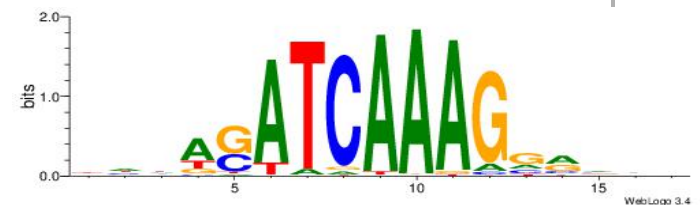
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

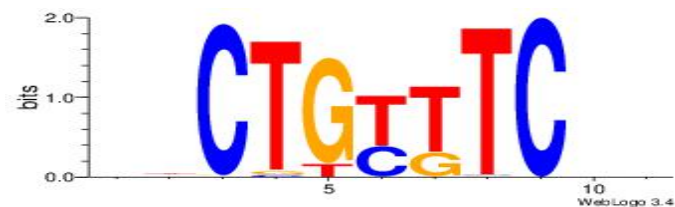
Consensus sequence: BDDASATCAAAGGMDDD



Dataset #: 4 **Motif ID: 113** **Motif name: htCTGyKTCbt**

Original motif

Consensus sequence: HBCTGYTTCBH



Reverse complement motif

Consensus sequence: HVGAAMCAGVH



Best Matches for Motif ID 113 (Highest to Lowest)

Motif ID: [UP00011](#)
Motif name: Irf6_primary
Species: Mus musculus
Matching format of first motif: Original Motif

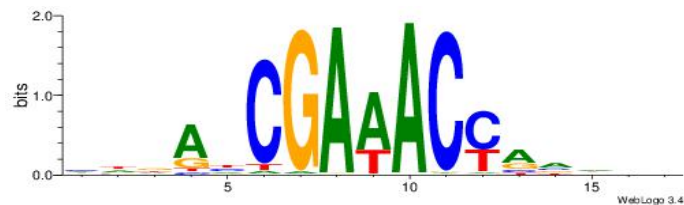
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	9.08187e-05

Alignment:

```
DHDBTKGTTTCGHTHDD
--HBCTGYTTCBH----
```

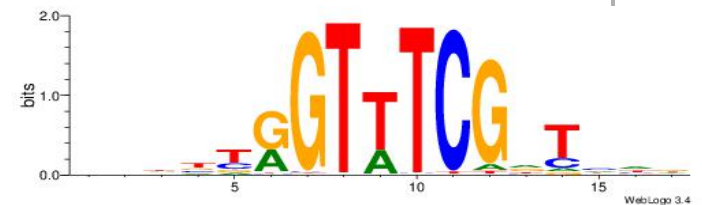
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



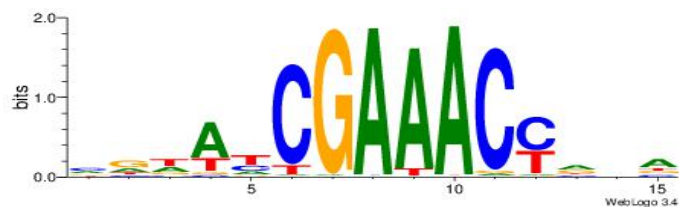
Motif ID:	UP00018
Motif name:	Irf4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0020112

Alignment:

```
VDDAYCGAAACYDVA
HBCTGYTTCBH----
```

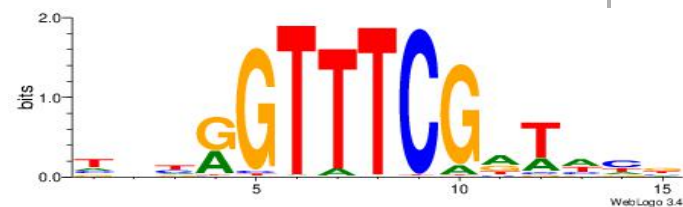
Original motif

Consensus sequence: VDDAYCGAAACYDVA



Reverse complement motif

Consensus sequence: TBDKGTTTCGMTDHF



Motif ID:

[UP00028](#)

Motif name:

Tcfap2e_secondary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Forward

Position number:

1

Number of overlap:

11

Similarity score:

0.00395272

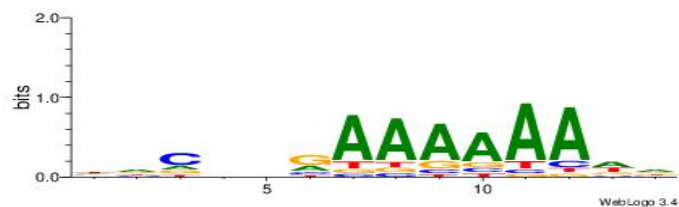
Alignment:

DDTTTTTTMBDGDH

HBCTGYTTCBH---

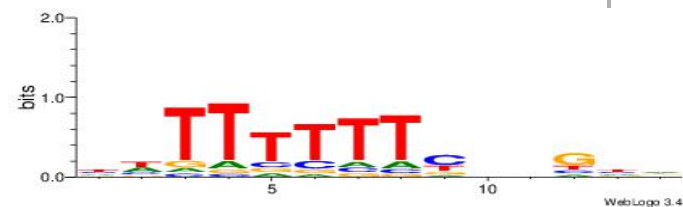
Original motif

Consensus sequence: HDCDBRAAAAAADD



Reverse complement motif

Consensus sequence: DDTTTTTTTMBDGDH



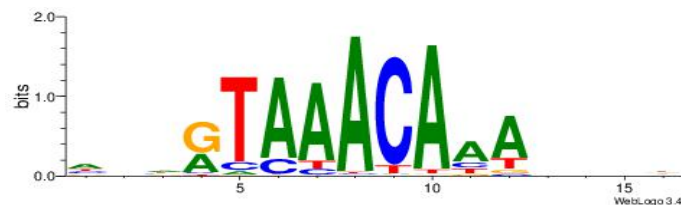
Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.00443293

Alignment:

DDDHTTTGTTTAMHDH
---HBCTGYTTCBH--

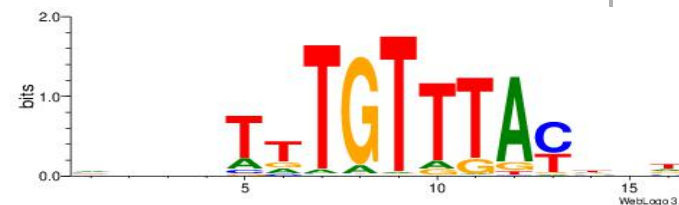
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



Motif ID: [UP00036](#)
Motif name: Myf6_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1

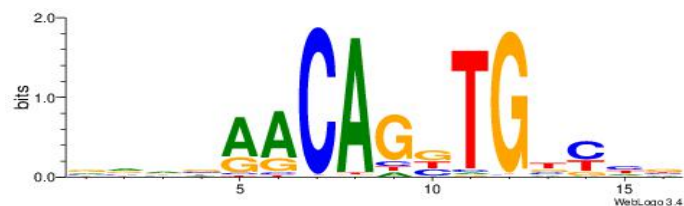
Number of overlap: 11
Similarity score: 0.00700099

Alignment:

VVDBAACAGBTGBYHB
-----HBCTGYTTCBH

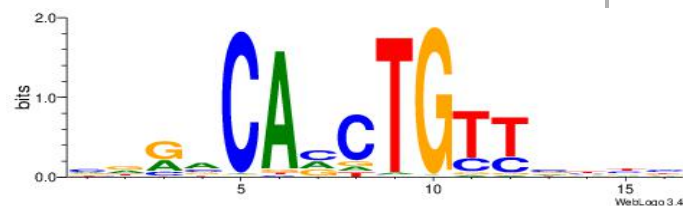
Original motif

Consensus sequence: VVDBAACAGBTGBYHB



Reverse complement motif

Consensus sequence: BDKVCABCTGTTBDBV



Dataset #: 4 Motif ID: 114 Motif name: awAACAcAAwa

Original motif

Consensus sequence: DDAACACAADV



Reverse complement motif

Consensus sequence: BDTTGTGTTDD



Best Matches for Motif ID 114 (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:	11
Similarity score:	0

Alignment:

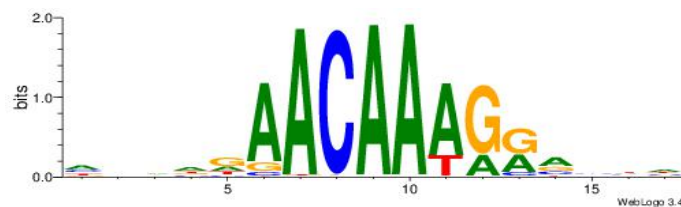
```

HBDDDAACAAAGRVBHH
---DDAACACAADV---

```

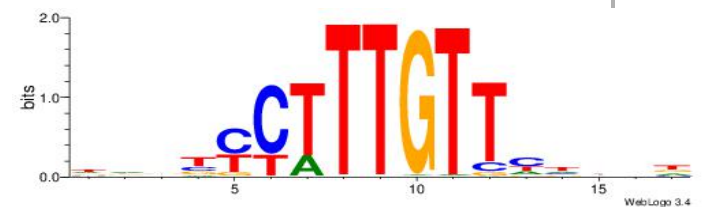
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



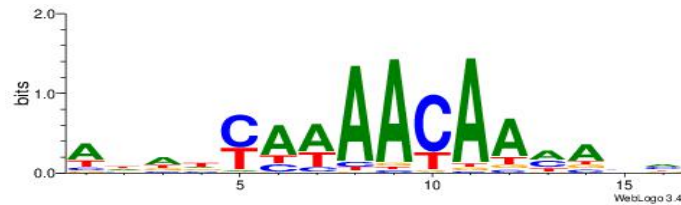
Motif ID:	UP00061
Motif name:	Foxl1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.00187486

Alignment:

ADDDYAWAACAAMAHH
-----DDAACACAADV

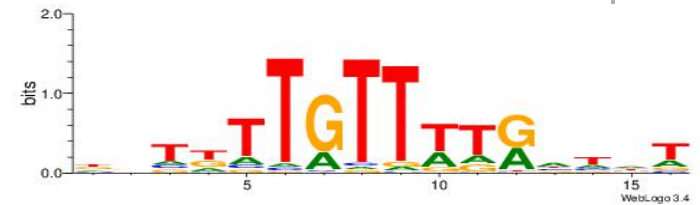
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00026](#)
Motif name: Zscan4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.00220739

Alignment:

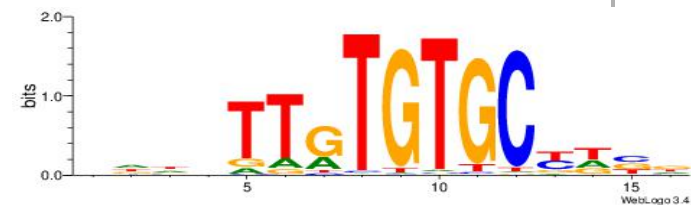
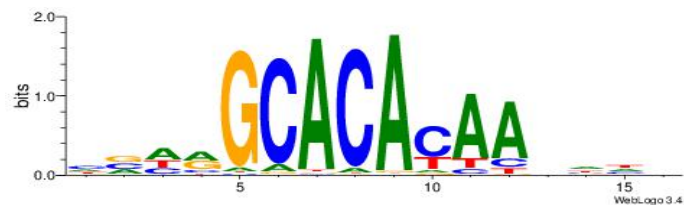
HVHRGCACACAAHHHV
---DDAACACAADV---

Original motif

Consensus sequence: HVHRGCACACAAHHHV

Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD

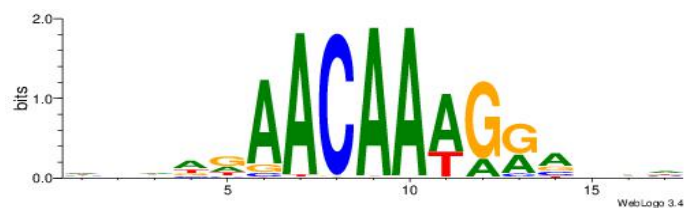


Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00510749

Alignment:
 HBDDRAACAAAGRABHH
 ---DDAACACAADV---

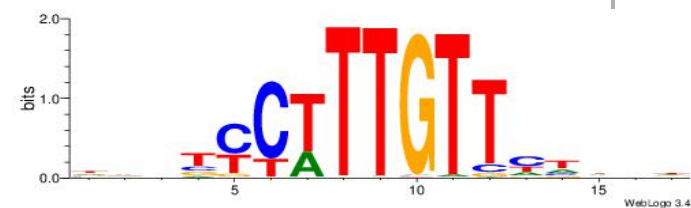
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00039](#)

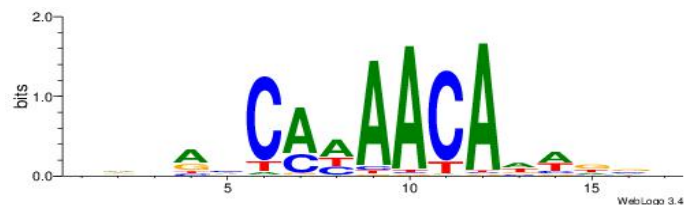
Motif name: Foxj3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.00591125

Alignment:

DVHWDTGTTWTGDTBDH
 BDTTGTGTTDD-----

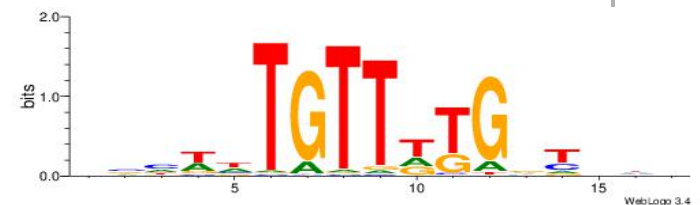
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



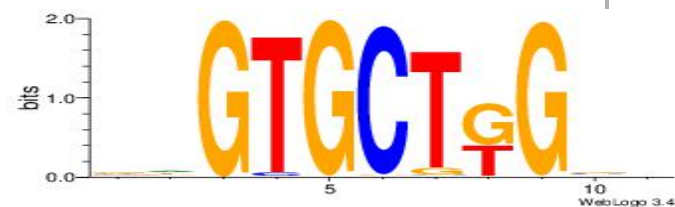
Dataset #: 4 Motif ID: 115 Motif name: ysCmAGCACwy

Original motif

Consensus sequence: HVCMAGCACHH

Reverse complement motif

Consensus sequence: DHGTGCTRGVH



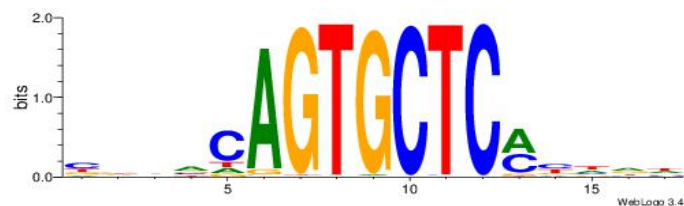
Best Matches for Motif ID 115 (Highest to Lowest)

Motif ID: [UP00095](#)
 Motif name: Zfp691_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0053489

Alignment:
 DDHBYGAGCACTGBHBB
 --HVCMAGCACHH-----

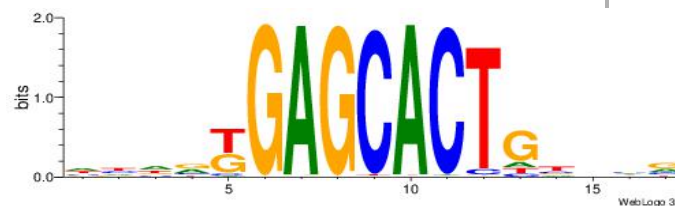
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHBB



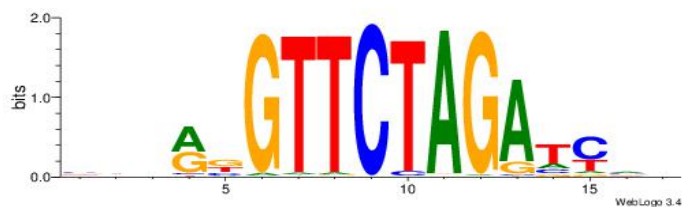
Motif ID: [UP00019](#)
 Motif name: Zbtb12_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00963065

Alignment:

BDHRBGTTCCTAGATCVB
 ---DHGTGCTRGVH---

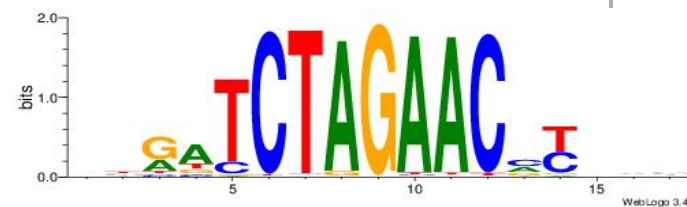
Original motif

Consensus sequence: BDHRBGTTCCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



Motif ID: [UP00070](#)
 Motif name: Gcm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

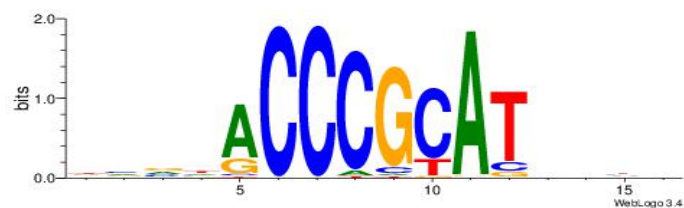
Number of overlap: 11
Similarity score: 0.012513

Alignment:

HVVHACCCGCATVDHD
---HVCMAGCACHH--

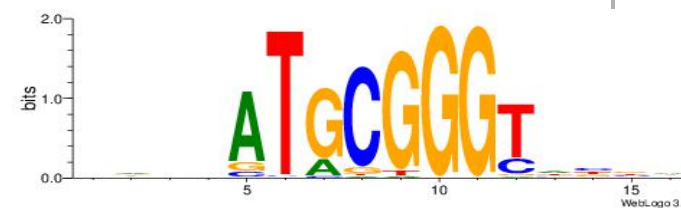
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



Motif ID: [UP00019](#)
Motif name: Zbtb12_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0159596

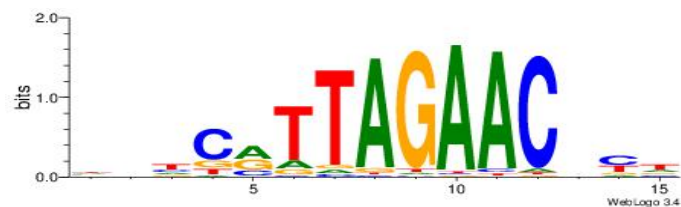
Alignment:

DKBGTTCCTAAKGHBH
-DHGTGCTRGVH---

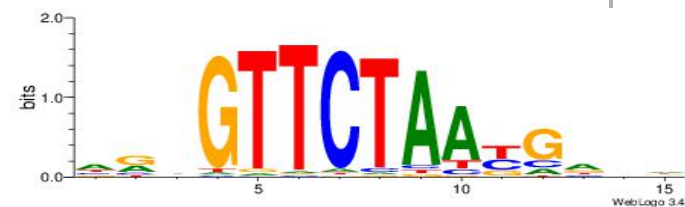
Original motif

Reverse complement motif

Consensus sequence: HVHCRTTAGAACBYD



Consensus sequence: DKBGTTCTAAKGBH



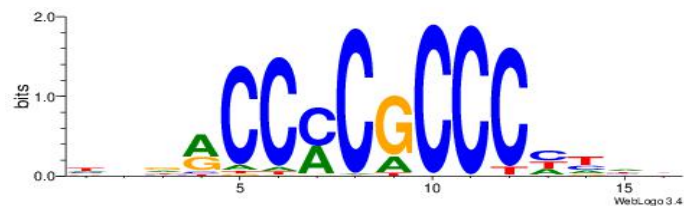
Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0162796

Alignment:

HBDRCCMCGCCCHHHD
---HVCMAGCACHH---

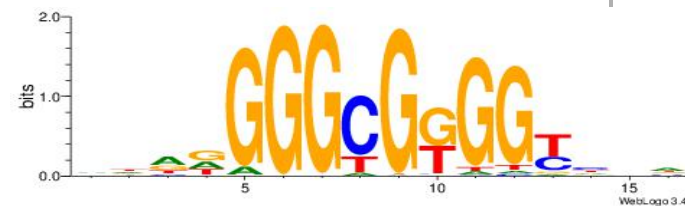
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

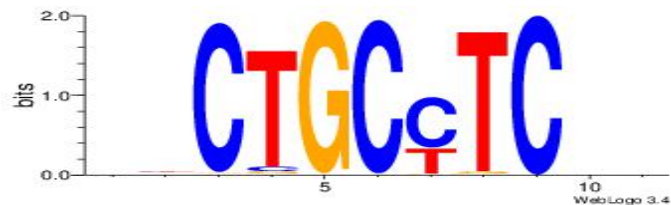
Consensus sequence: DHHDGGGCGRGGKHBH



Dataset #: 4 **Motif ID: 116** **Motif name: dyCTGCyTCyc**

Original motif

Consensus sequence: DHCTGCYTCHB



Reverse complement motif

Consensus sequence: BHGAKGCAGHH



Best Matches for Motif ID 116 (Highest to Lowest)

Motif ID:	UP00027
Motif name:	Osr1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.00304687

Alignment:

VHDKWKGTAGCHHDK

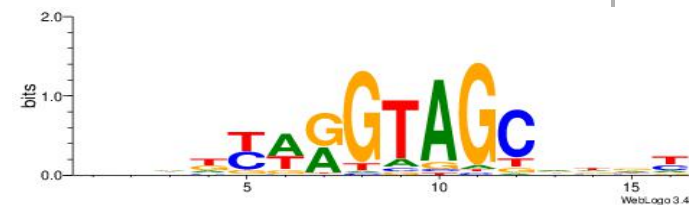
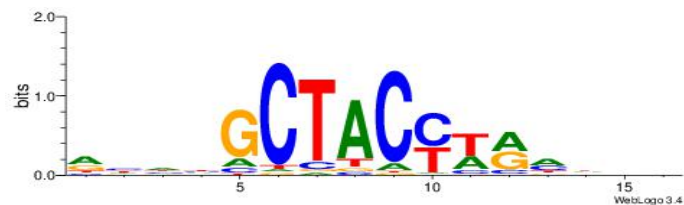
--BHGAKGCAGHH---

Original motif

Consensus sequence: RHHHGCTACYWRHDHV

Reverse complement motif

Consensus sequence: VHDKWKGTAGCHHDK



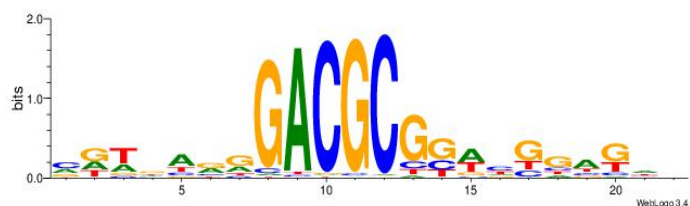
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.00310994

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 -----DHCTGCTCHB-----

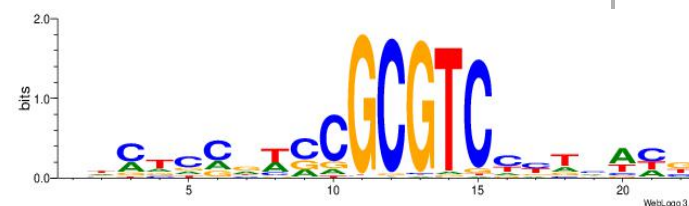
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Motif ID: [UP00528](#)

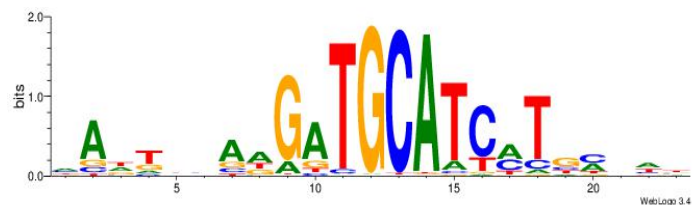
Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0069793

Alignment:

HADTBVADGATGCATCMTGMVHB
 -----BHGAKGCAGHH-----

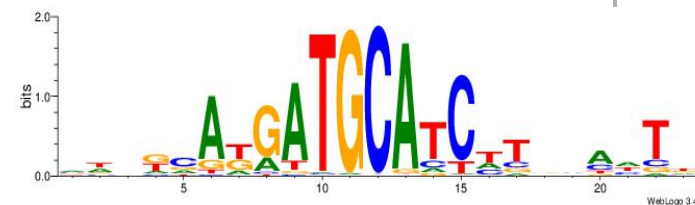
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH

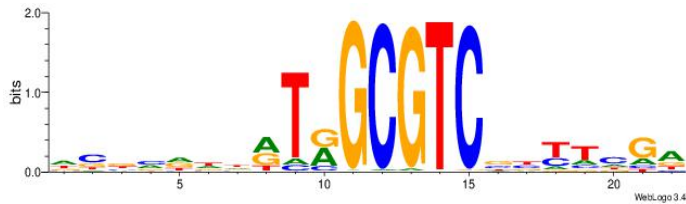


Motif ID: [UP00527](#)
 Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11

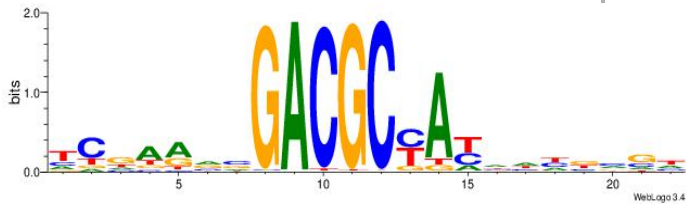
Similarity score: 0.00989903

Alignment:
TCDAMVBGACGCMACDDDVBBDD
-----BHGAAGCAGHH-----

Original motif
Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif
Consensus sequence: TCDAMVBGACGCMACDDDVBBDD

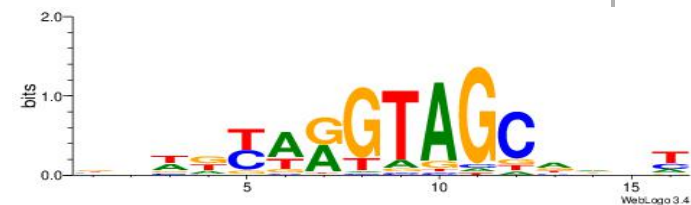
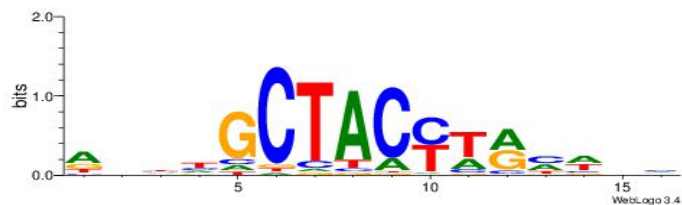


Motif ID: [UP00052](#)
Motif name: Osr2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0109065

Alignment:
VDWRKAKGTAGCHHDT
--BHGAAGCAGHH--

Original motif
Consensus sequence: AHHHGCTACYTRMWHV

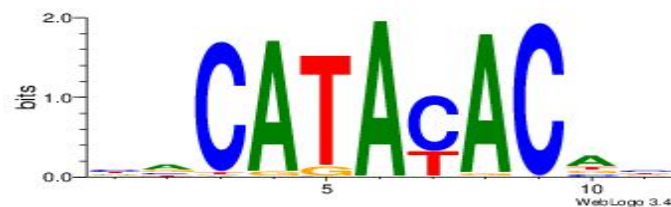
Reverse complement motif
Consensus sequence: VDWRKAKGTAGCHHDT



Dataset #: 4 **Motif ID: 117** **Motif name: yaCATAYACay**

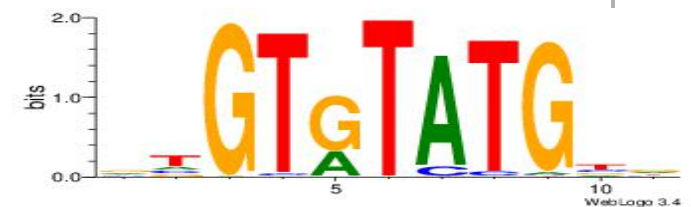
Original motif

Consensus sequence: HVCATACACAH



Reverse complement motif

Consensus sequence: DTGTGTATGBD



Best Matches for Motif ID 117 (Highest to Lowest)

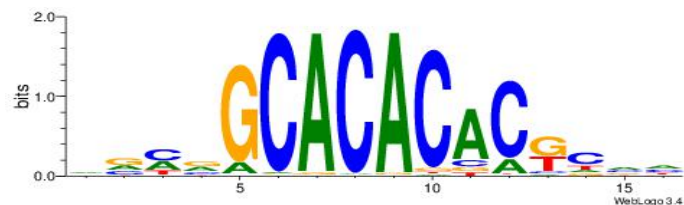
Motif ID:	UP00042
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.00146648

Alignment:

HBGYGTGTGTGCVRVD
--DTGTGTATGBD---

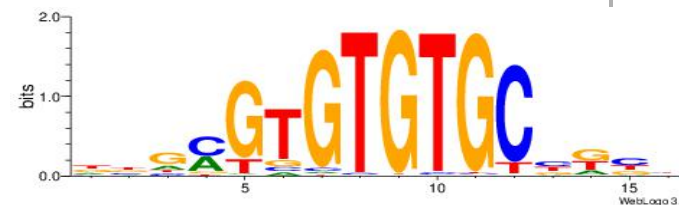
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00014](#)
Motif name: Sox17_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.00148401

Alignment:

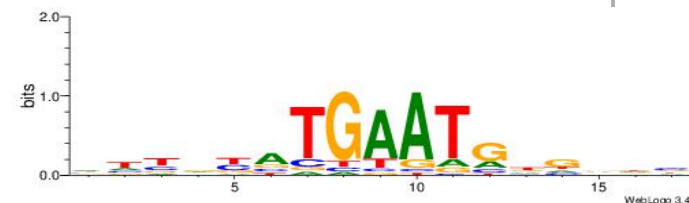
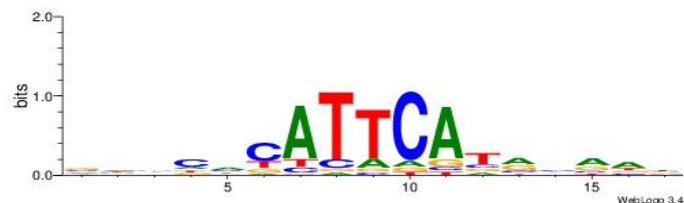
VHBHHCATTCATRHVDD
---HVCATACACAH---

Original motif

Consensus sequence: VHBHHCATTCATRHVDD

Reverse complement motif

Consensus sequence: DDBDKATGAATGHDBHV

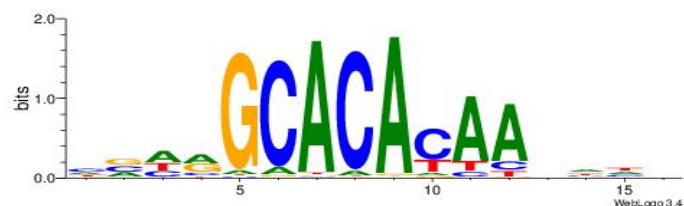


Motif ID: [UP00026](#)
 Motif name: Zscan4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00748624

Alignment:
 BHHHTTGTGTGCKHVD
 --DTGTGTATGBD---

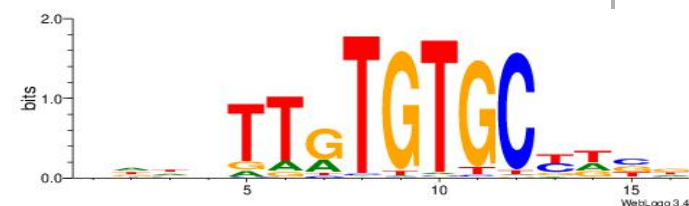
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00000](#)

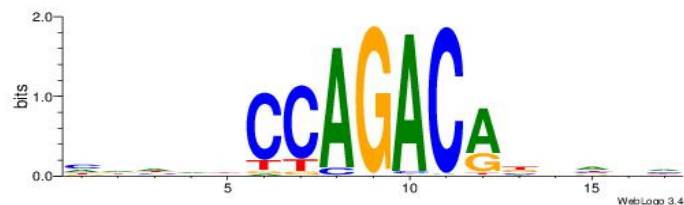
Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0111266

Alignment:

HVHBVTGTCTGGDDHDD
 --DTGTGTATGBD----

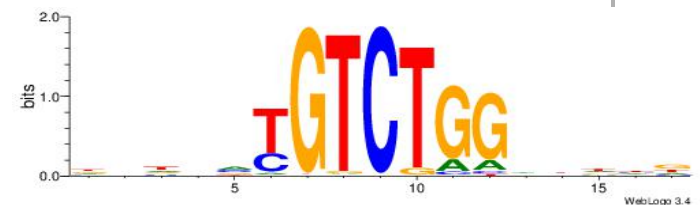
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0147238

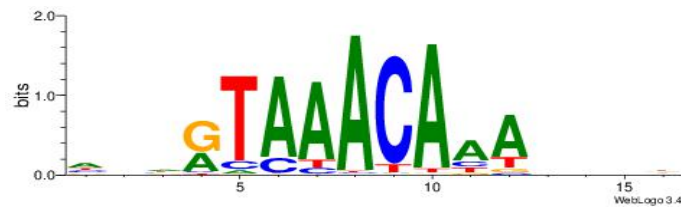
Alignment:

HDHRTAAACAAHDDD

HVCATACACAH-----

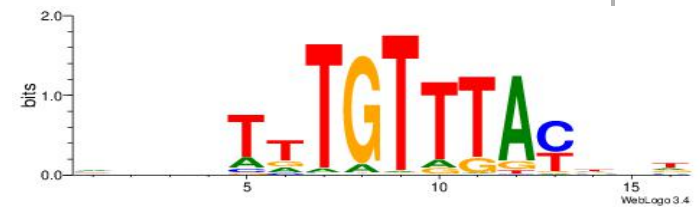
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

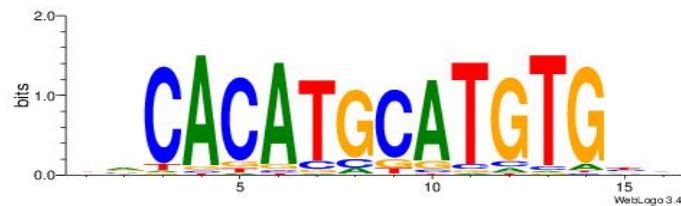
Consensus sequence: DDDHTTTGTTTAMHDDH



Dataset #: 4 Motif ID: 118 Motif name: yrCACATGCATGTGyr

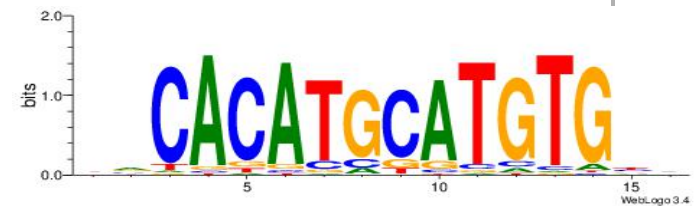
Original motif

Consensus sequence: HVCACATGCATGTGBD



Reverse complement motif

Consensus sequence: DVCACATGCATGTGBH



Best Matches for Motif ID 118 (Highest to Lowest)

Motif ID:	UP00014
Motif name:	Sox17_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

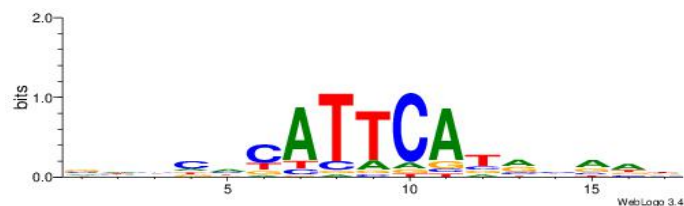
Position number: 1
Number of overlap: 16
Similarity score: 0.0237272

Alignment:

VHBHHCATTCATRHVDD
-HVCACATGCATGTGBD

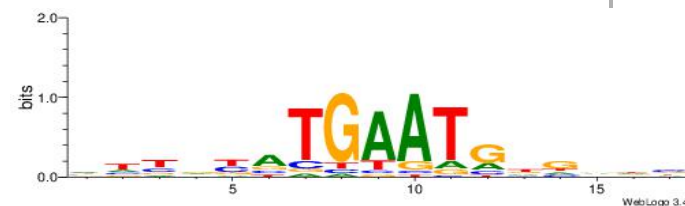
Original motif

Consensus sequence: VHBHHCATTCATRHVDD



Reverse complement motif

Consensus sequence: DDBDKATGAATGHDBHV



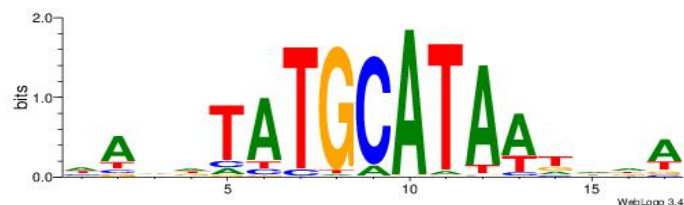
Motif ID: [UP00211](#)
Motif name: Pou3f3
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0311234

Alignment:

HADDTATGCATAATDDA
DVCACATGCATGTGBH-

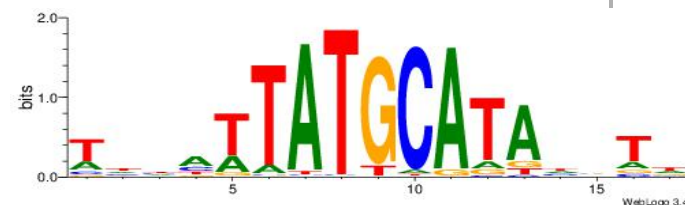
Original motif

Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH



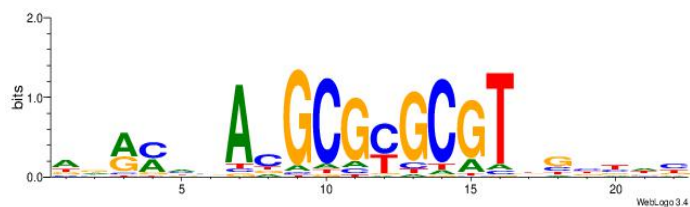
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.0317308

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -HVCACATGCATGTGBD-----

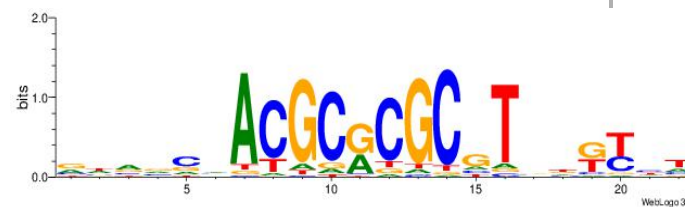
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



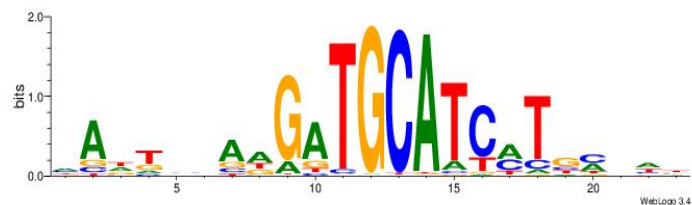
Motif ID: [UP00528](#)
Motif name: Foxm1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.0350949

Alignment:

HADTBVADGATGCATCMTGMVHB
----DVCACATGCATGTGBH---

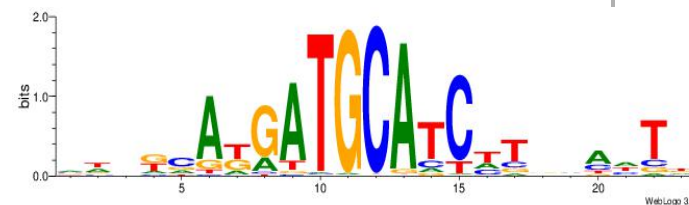
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Motif ID: [UP00050](#)
Motif name: Bhlhb2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward

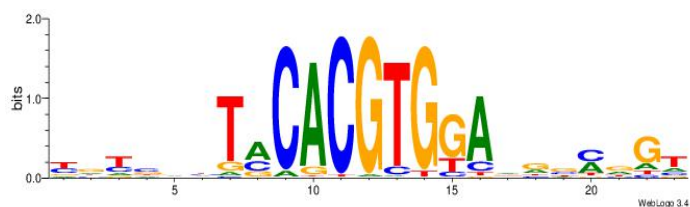
Position number: 7
 Number of overlap: 16
 Similarity score: 0.0361283

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -HVCACATGCATGTGBD-----

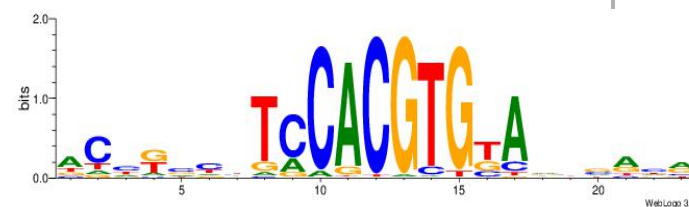
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

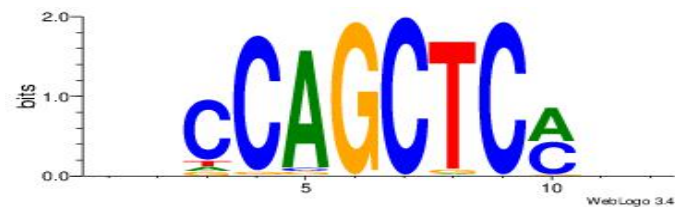
Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Dataset #: 4 Motif ID: 119 Motif name: cbCCAGCTCmyk

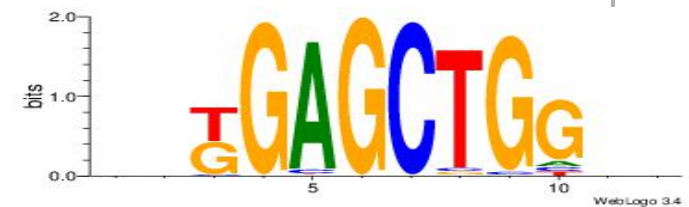
Original motif

Consensus sequence: BBCCAGCTCMBD



Reverse complement motif

Consensus sequence: HBYGAGCTGGBB



Best Matches for Motif ID 119 (Highest to Lowest)

Motif ID: [UP00099](#)
 Motif name: Ascl2_primary

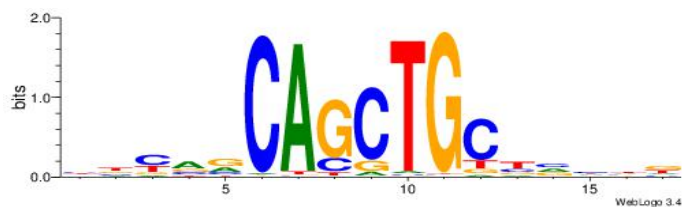
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0114595

Alignment:

HHDVVGCAGCTGVBKVB
 ---BBCCAGCTCMBD--

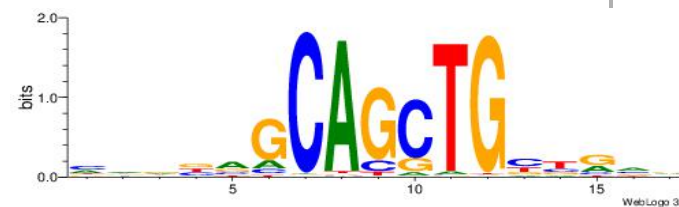
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



Motif ID: [UP00079](#)
 Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0116283

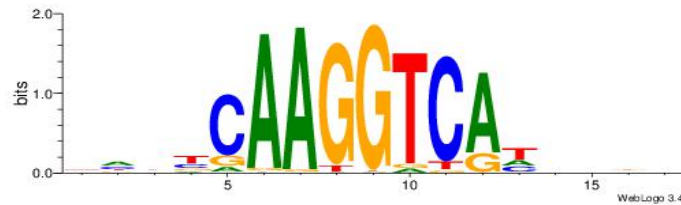
Alignment:

DHDBCAAGGTCAHVBDH

--BBCCAGCTCMBD---

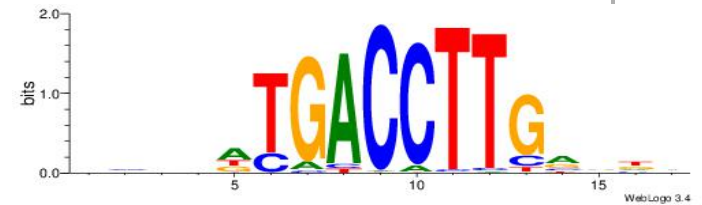
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID:	UP00009
Motif name:	Nr2f2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0162386

Alignment:

VBVBCSGGGTCAVBBH

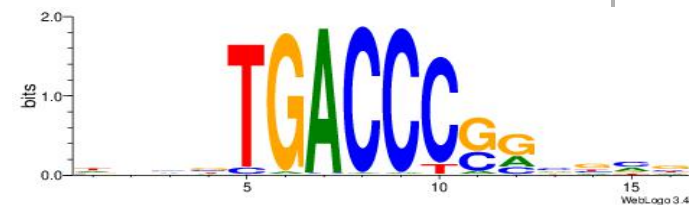
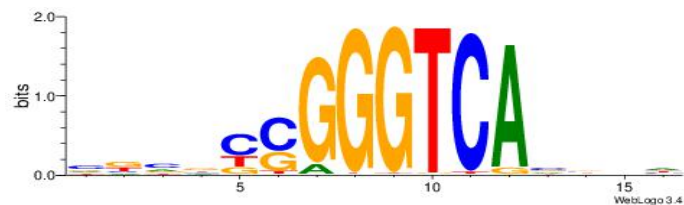
--BBCCAGCTCMBD--

Original motif

Consensus sequence: VBVBCSGGGTCAVBBH

Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV

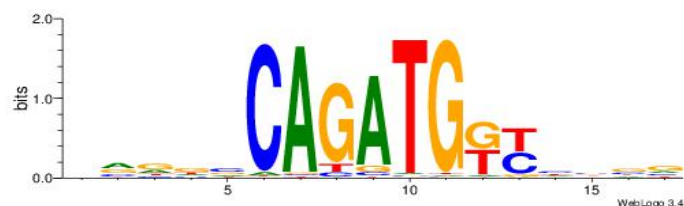


Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0168976

Alignment:
 VBDDMYCATCTGVHHBH
 ---HBYGAGCTGGBB--

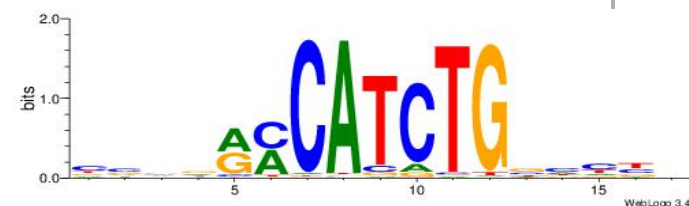
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBDDMYCATCTGVHHBH



Motif ID: [UP00007](#)

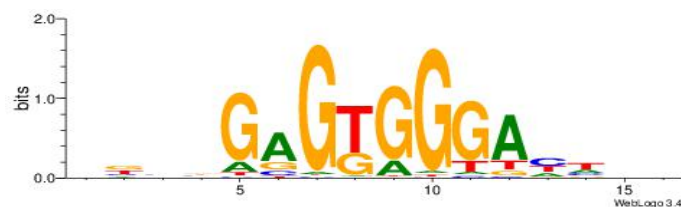
Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0184561

Alignment:

BHHDTCCTCACTCBDBV
 ---BBCCAGCTCMBD-

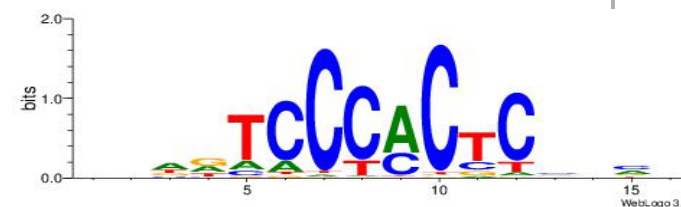
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



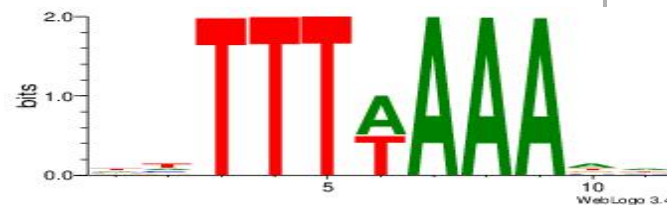
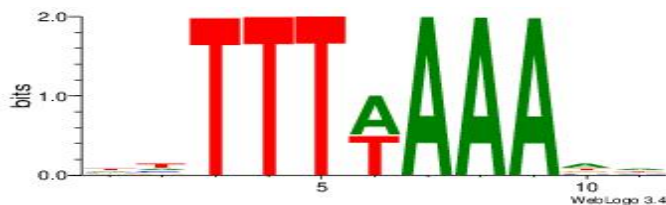
Dataset #: 4 Motif ID: 120 Motif name: wtTTTwAAAaw

Original motif

Consensus sequence: HHTTTWAAADD

Reverse complement motif

Consensus sequence: DDTTTWAAHH



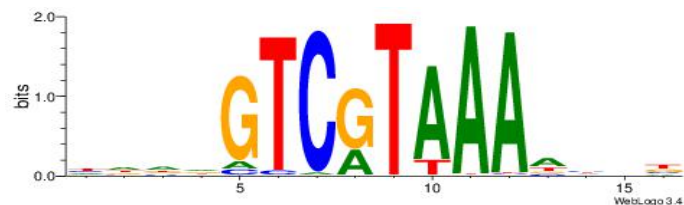
Best Matches for Motif ID 120 (Highest to Lowest)

Motif ID: [UP00245](#)
 Motif name: Hoxc10
 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: 0.00479174

Alignment:
 VBDDTTTACGACDDDH
 --DDTTTWAAAH--

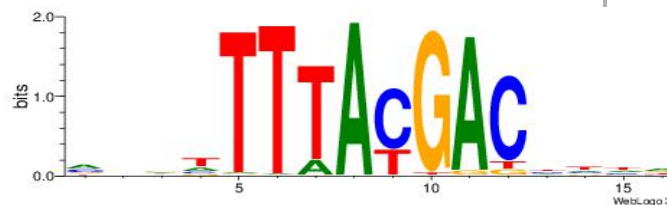
Original motif

Consensus sequence: HDDDGTCGTAAADHBB



Reverse complement motif

Consensus sequence: VBDDTTTACGACDDDH



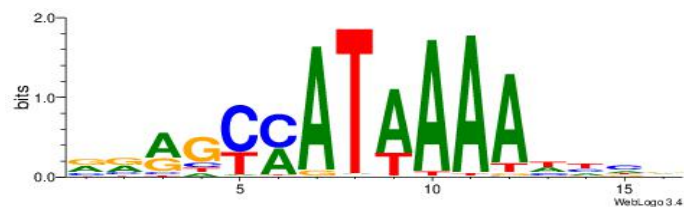
Motif ID: [UP00207](#)
 Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00518937

Alignment:

HDHHTTTTATRGCKMV
 --HHTTTWAAADD---

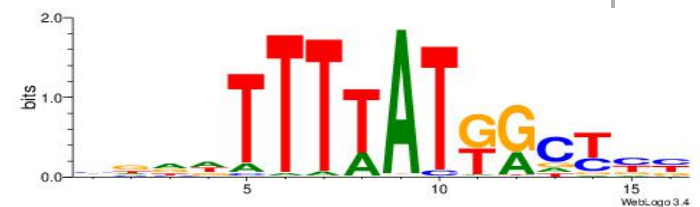
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID: [UP00173](#)
 Motif name: Hoxc13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

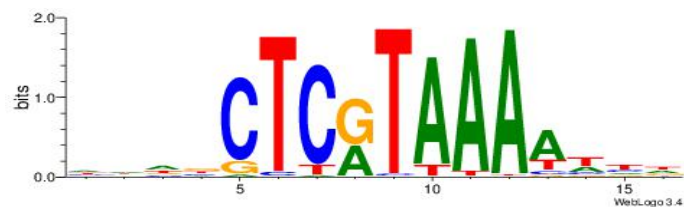
Number of overlap: 11
Similarity score: 0.00780549

Alignment:

DHWTTTTAMGAGBDHH
--HHTTTWAAADD--

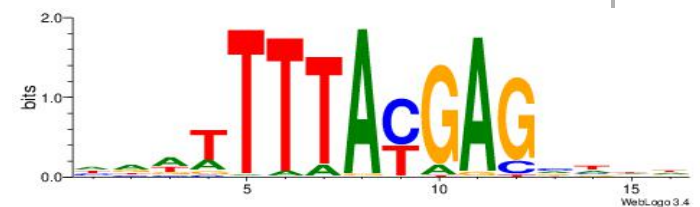
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH



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: 4
Number of overlap: 11
Similarity score: 0.00780612

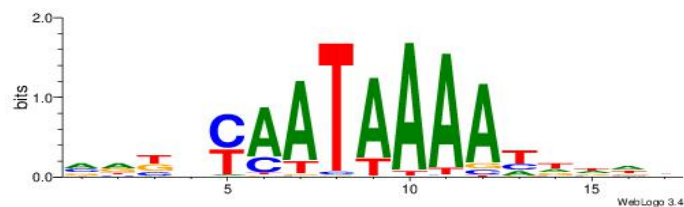
Alignment:

VDKVYAATAAAATDDDH
---HHTTTWAAADD---

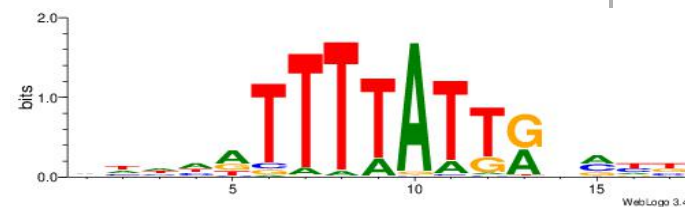
Original motif

Reverse complement motif

Consensus sequence: VDKVYAATAAAATDDDH



Consensus sequence: HDDDATTTTATTKVRDB



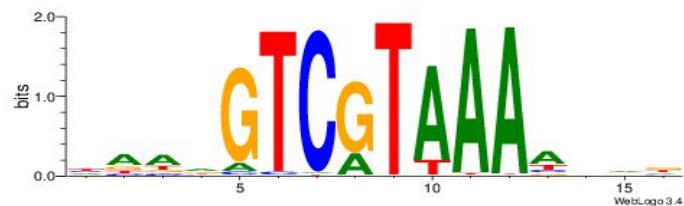
Motif ID: [UP00235](#)
Motif name: Hoxc11
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.00841397

Alignment:

HDHTTTTACGACDTTH
--DDTTTWAAAH---

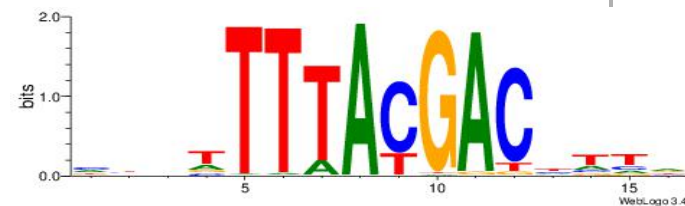
Original motif

Consensus sequence: HAADGTCGTAAAHDD



Reverse complement motif

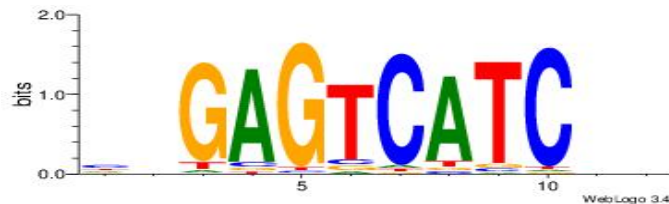
Consensus sequence: HDHTTTTACGACDTTH



Dataset #: 4 **Motif ID: 121** **Motif name: ctGAGTCATCkb**

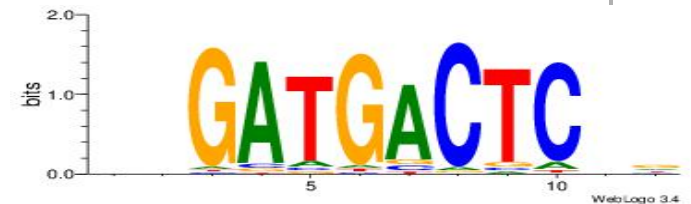
Original motif

Consensus sequence: HDGAGTCATCDB



Reverse complement motif

Consensus sequence: BHGATGACTCDD



Best Matches for Motif ID 121 (Highest to Lowest)

Motif ID:	UP00103
Motif name:	Jundm2_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:	12
Similarity score:	0.00741758

Alignment:

VDKDRTGASTCAYHDH

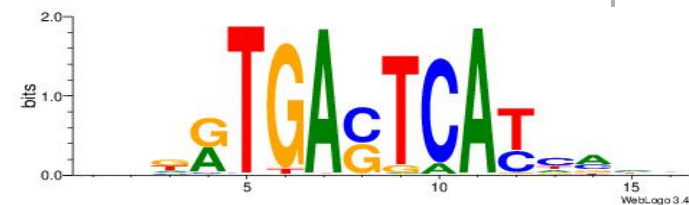
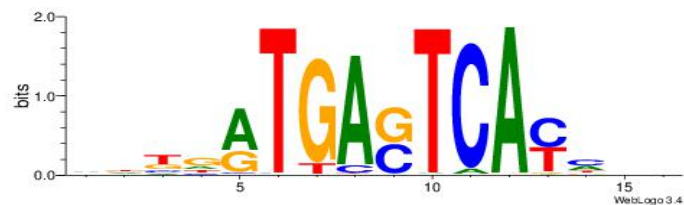
----HDGAGTCATCDB

Original motif

Consensus sequence: VDKDRTGASTCAYHDH

Reverse complement motif

Consensus sequence: HDDKTGASTCAKHRDB

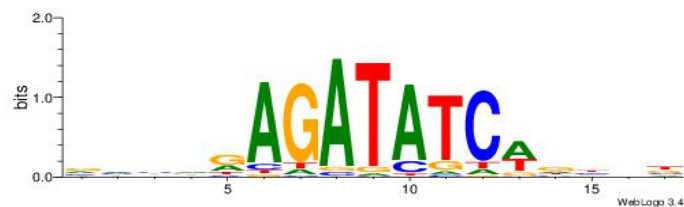


Motif ID: [UP00080](#)
 Motif name: Gata5_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00840436

Alignment:
 VVHHWGATATCTMHBBV
 ---BHGATGACTCDD--

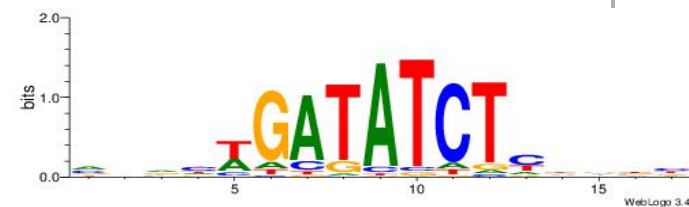
Original motif

Consensus sequence: VVBHRAGATATCWDHBB



Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV



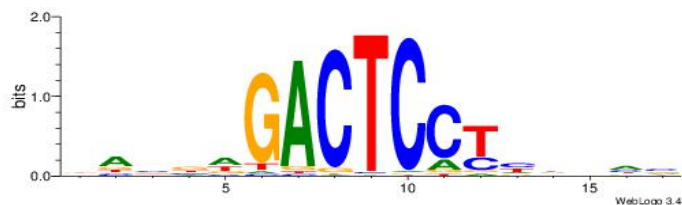
Motif ID: [UP00095](#)

Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0100045

Alignment:
 DABBWGACTCCTHDTVHV
 ---HDGAGTCATCDB--

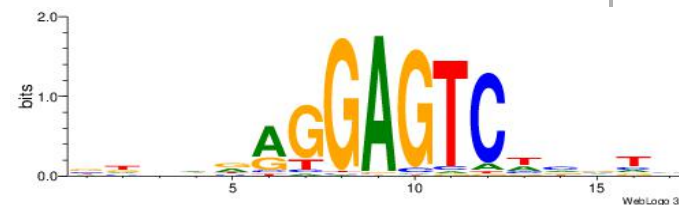
Original motif

Consensus sequence: DABBWGACTCCTHDTVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



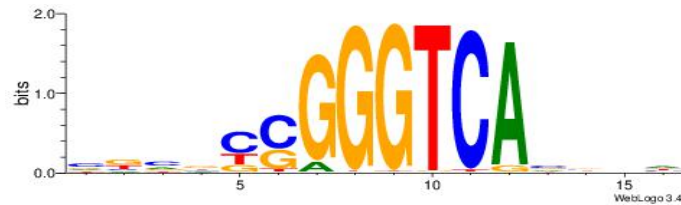
Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0129913

Alignment:

HVBVTGACCCSGBVBV
BHGATGACTCDD----

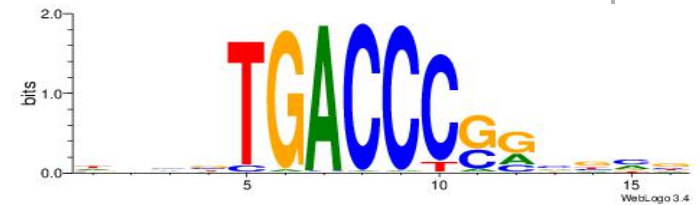
Original motif

Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID:	UP00199
Motif name:	Six4
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0138031

Alignment:

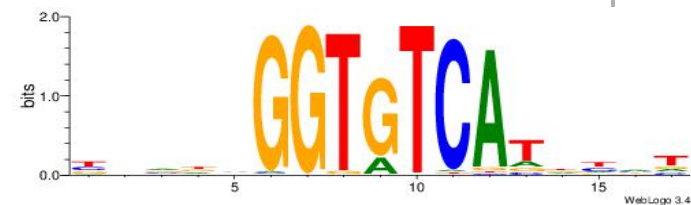
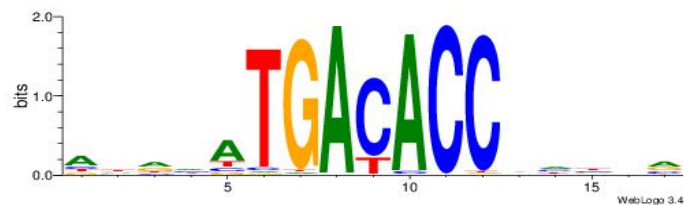
BBVHVGGTGTCA THDDT
----HDGAGTCATCDB-

Original motif

Consensus sequence: ADDHATGACACCBHBBV

Reverse complement motif

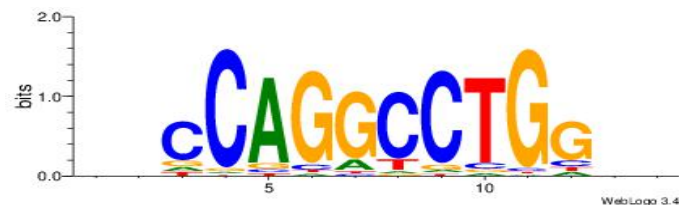
Consensus sequence: BBVHVGGTGTCA THDDT



Dataset #: 4 Motif ID: 122 Motif name: hsCCAGGCCTGGsr

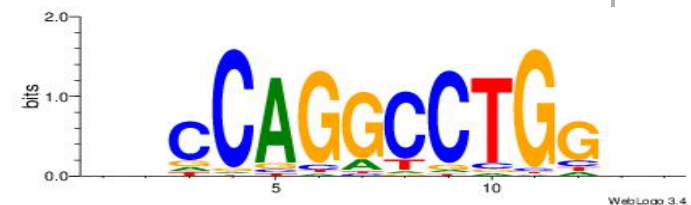
Original motif

Consensus sequence: HVCCAGGCCTGGBD



Reverse complement motif

Consensus sequence: HBCCAGGCCTGGVD



Best Matches for Motif ID 122 (Highest to Lowest)

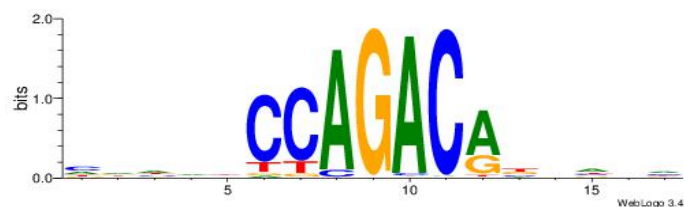
Motif ID:	UP00000
Motif name:	Smad3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0176735

Alignment:

HVHBVTGTCTGGDDHDD
HVCCAGGCCTGGBD---

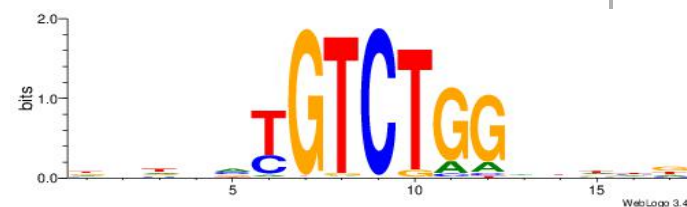
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID:	UP00079
Motif name:	Esrra_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:	0.0267861

Alignment:

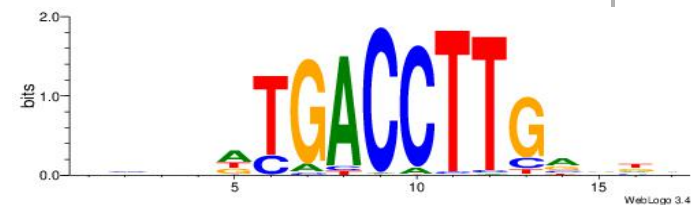
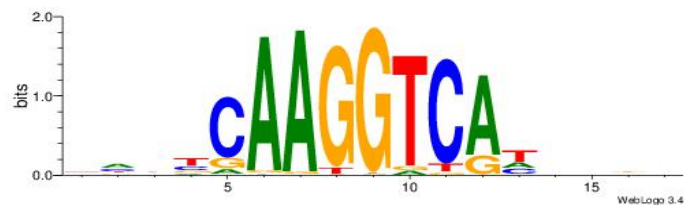
HHBVHTGACCTTGVDHD
-HVCCAGGCCTGGBD--

Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH

Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD

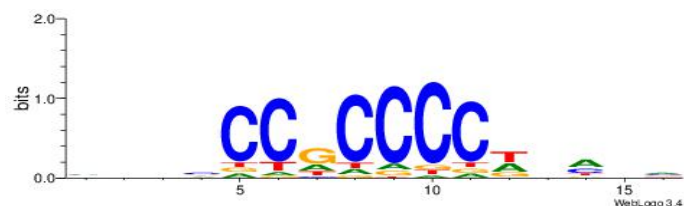


Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0286506

Alignment:
 BHHHWGGGGCGGBBVH
 HBCCAGGCCTGGVD--

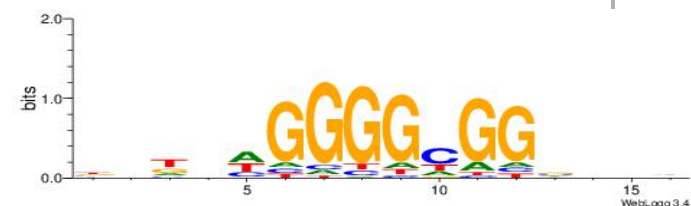
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00000](#)

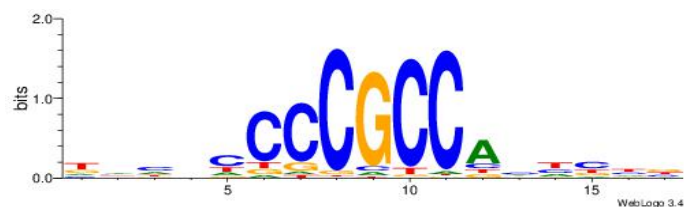
Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.030173

Alignment:

BHBHDTGGCGGGBDHD
 -HBCCAGGCCTGGVD--

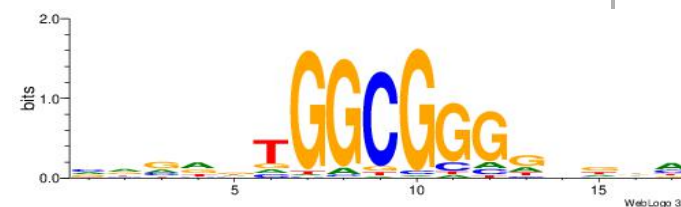
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



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

Similarity score: 0.0304555

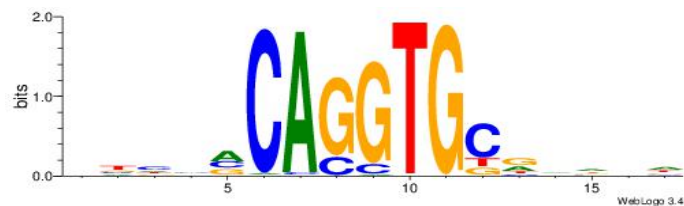
Alignment:

VBHHVCAGGTGCDVDHD

--HVCCAGGCCTGGBD--

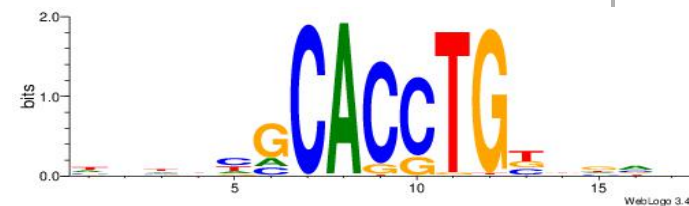
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

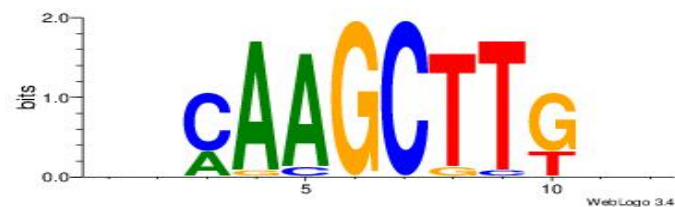
Consensus sequence: DHDBHGCACCTGBDDVB



Dataset #: 4 **Motif ID: 123** **Motif name: asMAAGCTTKst**

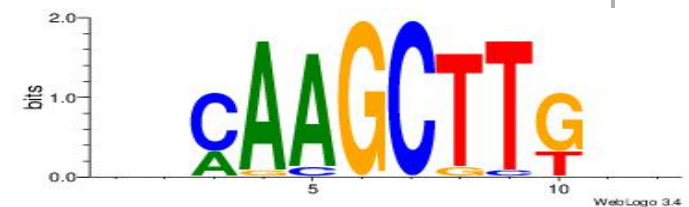
Original motif

Consensus sequence: HBCAAGCTTGVD



Reverse complement motif

Consensus sequence: DVCAAGCTTGBH



Best Matches for Motif ID 123 (Highest to Lowest)

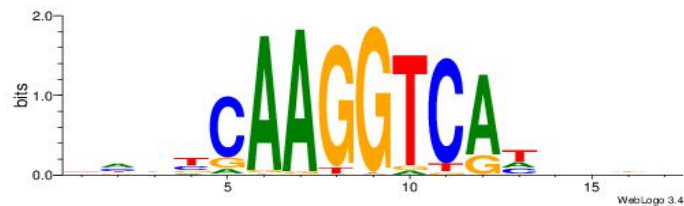
Motif ID:	UP00079
Motif name:	Esrra_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0208125

Alignment:
DHDBCAAGGTCAHVBDH
--DVCAAGCTTGBH---

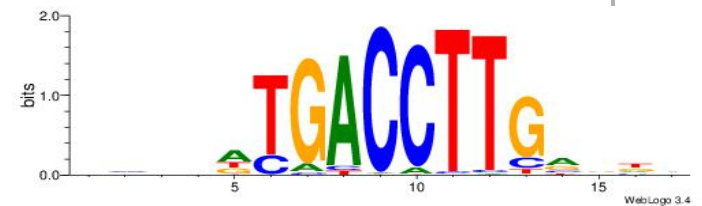
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



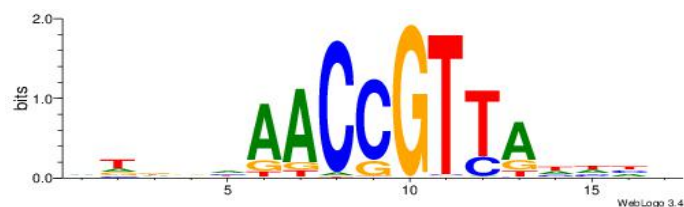
Motif ID:	UP00092
Motif name:	Myb_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0336071

Alignment:

DHHHTAACGGTTHHHDH
---HBCAAGCTTGVD--

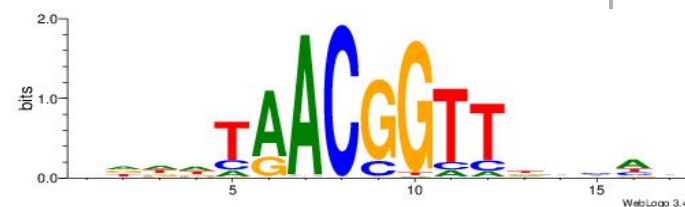
Original motif

Consensus sequence: HDDDHAACCGTTAHHHD



Reverse complement motif

Consensus sequence: DHHHTAACGGTTHHHDH



Motif ID:	UP00002
Motif name:	Sp4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0348053

Alignment:

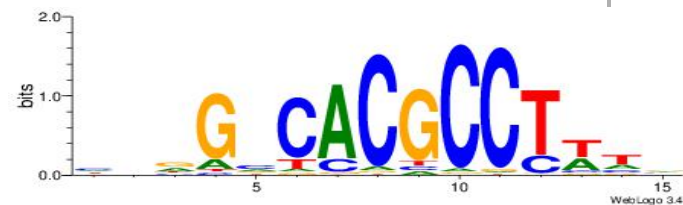
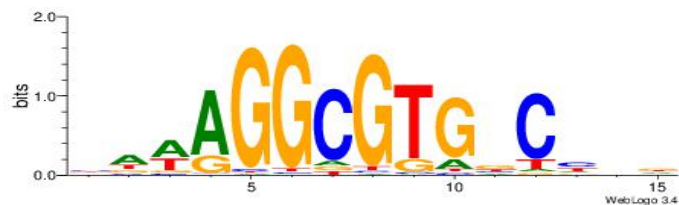
HHDGBCACGCCTWDB
---HBCAAGCTTGVD

Original motif

Consensus sequence: BDWAGGCGTG BCHHD

Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB

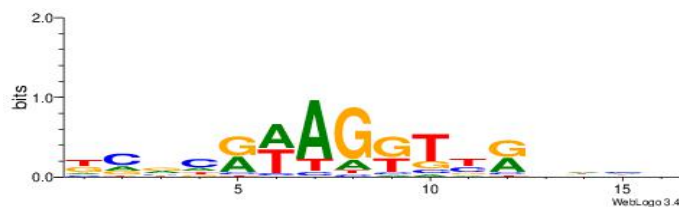


Motif ID: [UP00053](#)
 Motif name: Rxra_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0350725

Alignment:
 KCVCRWAGKTYRBDHD
 --DVCAAGCTTG BH--

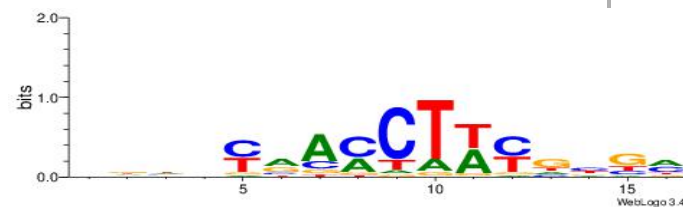
Original motif

Consensus sequence: KCVCRWAGKTYRBDHD



Reverse complement motif

Consensus sequence: DDDVMMAYCTWMGVGR



Motif ID: [UP00081](#)

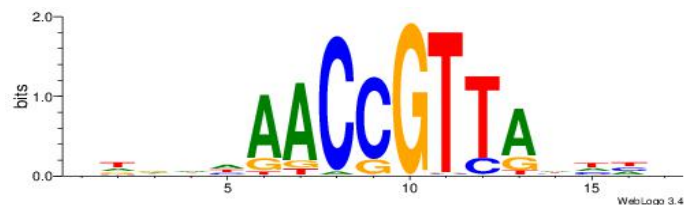
Motif name: Mybl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0350753

Alignment:

DHHHTAACGGTTHDHDH
 ---HBCAAGCTTGVD--

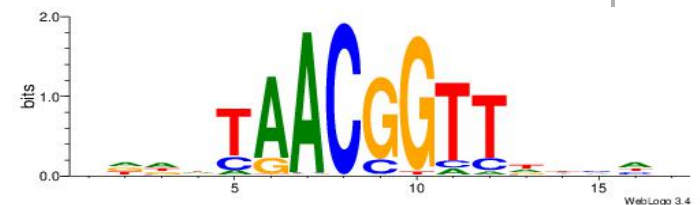
Original motif

Consensus sequence: HDDDHAACCGTTAHHHD



Reverse complement motif

Consensus sequence: DHHHTAACGGTTHDHDH



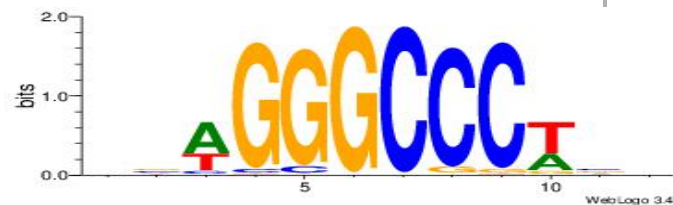
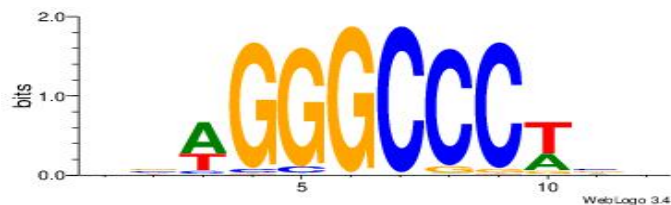
Dataset #: 4 Motif ID: 124 Motif name: cswGGGCCCwsg

Original motif

Consensus sequence: VVWGGGCCCWBB

Reverse complement motif

Consensus sequence: BBWGGGCCCWVV



Best Matches for Motif ID 124 (Highest to Lowest)

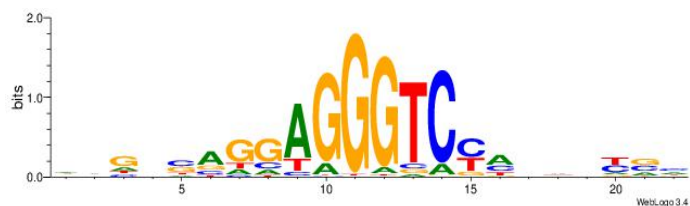
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 12
 Similarity score: 0.00677789

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
 -----VWGGGCCCWBB-----

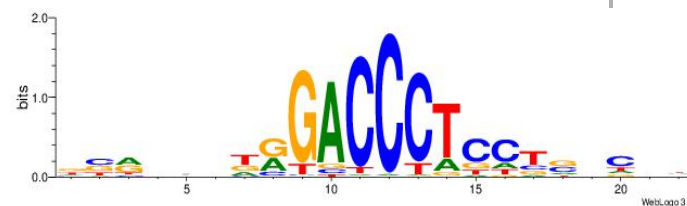
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



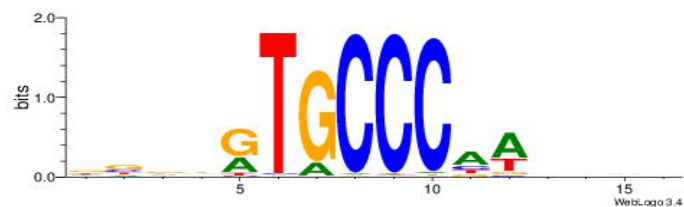
Motif ID: [UP00035](#)
 Motif name: Hic1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.00883058

Alignment:

VHHDWTGGGCAMDHBH
 ---VVGWGGGCCWBB-

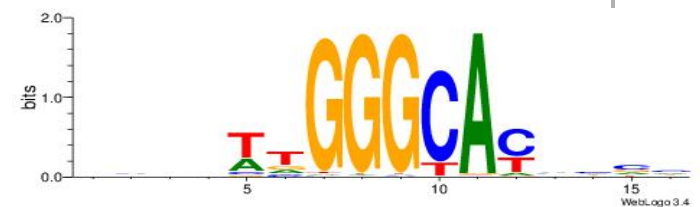
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3

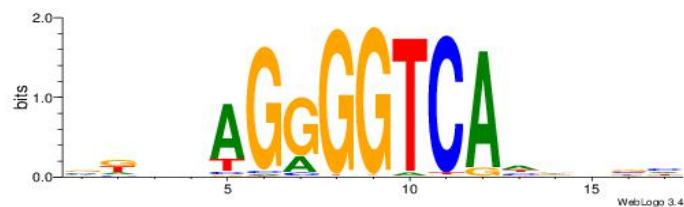
Number of overlap: 12
Similarity score: 0.0135862

Alignment:

VKBBAGGGGTCAHDBBH
--VVGWGGCCWBB---

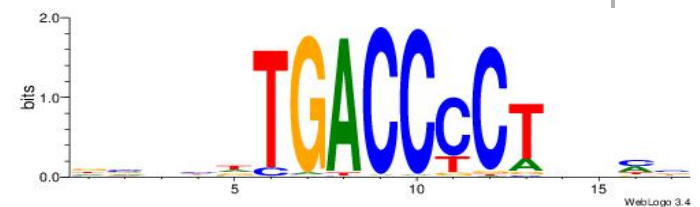
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



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: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0139879

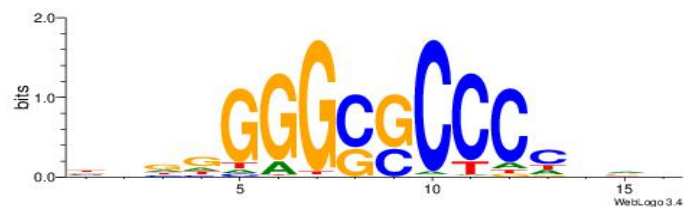
Alignment:

BHDGGGGSSCCCCBVV
-BBWGGGCCCWVV---

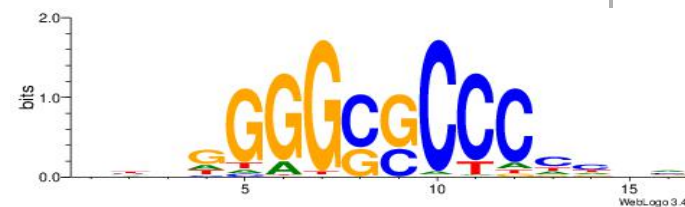
Original motif

Reverse complement motif

Consensus sequence: BHDGGGGSSCCCCBVV



Consensus sequence: VBVGGGGSSCCCCHHV



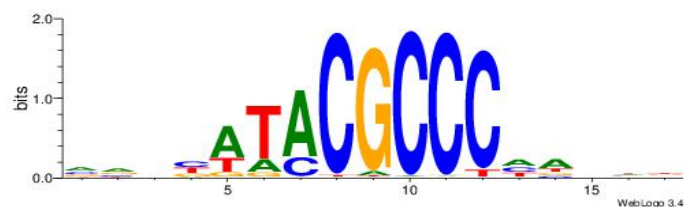
Motif ID: [UP00093](#)
Motif name: Klf7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0179108

Alignment:

DHDTHGGGCGTATBHBB
--VVGWGGCCCWBB---

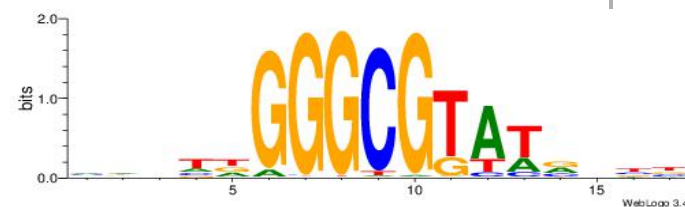
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

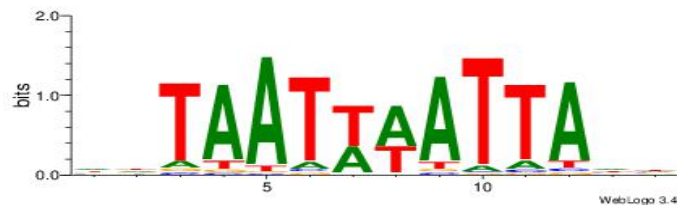
Consensus sequence: DHDTHGGGCGTATBHBB



Dataset #: 4 **Motif ID: 125** **Motif name: wwTAATwwATTaww**

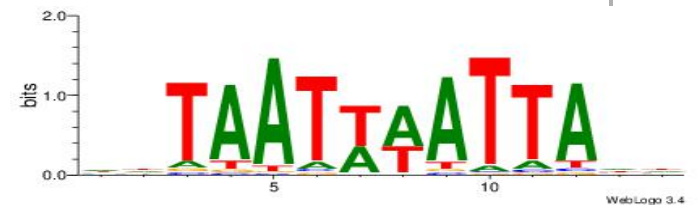
Original motif

Consensus sequence: DDTAATWWATTAAHH



Reverse complement motif

Consensus sequence: HHTAATWWATTADD



Best Matches for Motif ID 125 (Highest to Lowest)

Motif ID:	UP00105
Motif name:	Pou3f4
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0

Alignment:

BDDDTAATTAATTAHBD

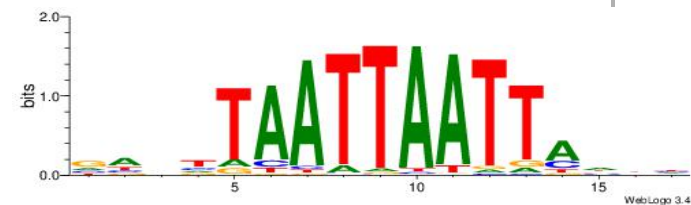
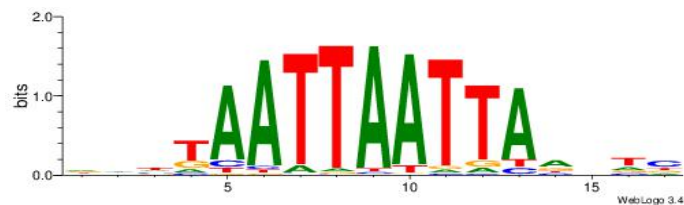
--DDTAATWWATTAAHH--

Original motif

Consensus sequence: DVHTAATTAATTADDDDB

Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD

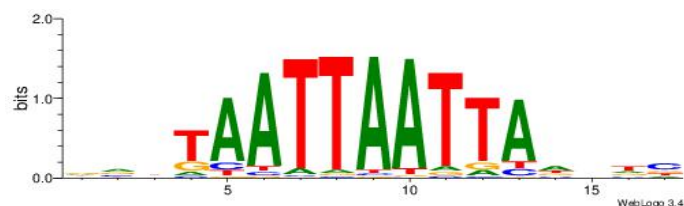


Motif ID: [UP00158](#)
 Motif name: Pou1f1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.000146898

Alignment:
 DVDTAATTAATTADDDDB
 -HHTAATWWATTADD--

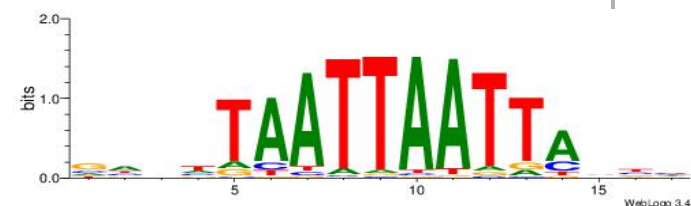
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



Motif ID: [UP00129](#)

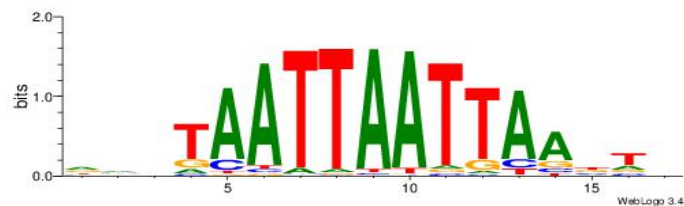
Motif name:	Pou3f1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.00623234

Alignment:

```
DAVTTAATTAATTAVBD
--DDTAATWWATTAAHH--
```

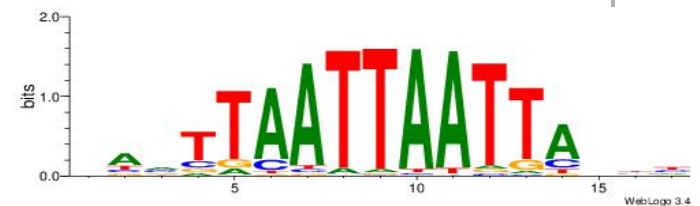
Original motif

Consensus sequence: DVBTAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



Motif ID:	UP00225
Motif name:	Hlx1
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: 0.00935009

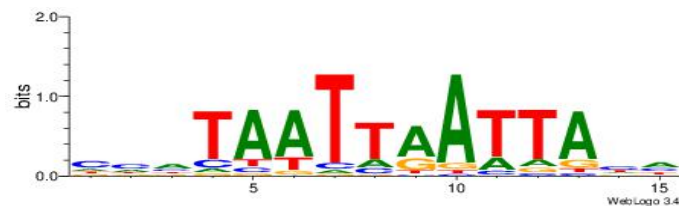
Alignment:

HDTAATTAATTAHDD

DDTAATWWATTAHH-

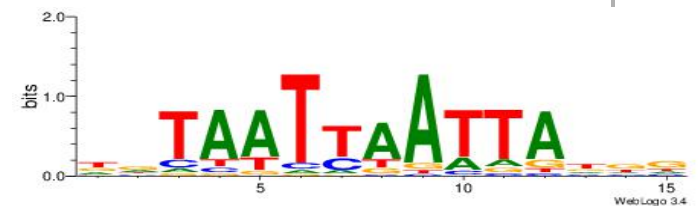
Original motif

Consensus sequence: HHHTAATTAATTAHH



Reverse complement motif

Consensus sequence: HDTAATTAATTAHDD



Motif ID: [UP00200](#)
Motif name: Nkx6-1_2825.2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0200997

Alignment:

VVTWATTAATTABBYC

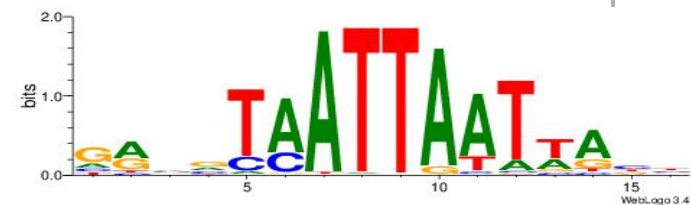
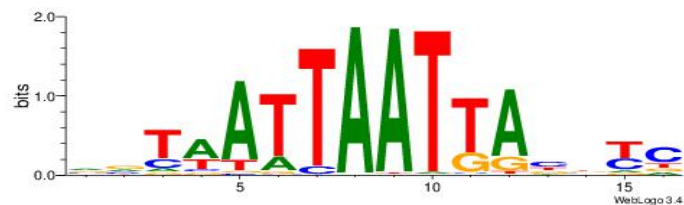
HHTAATWWATTADD--

Original motif

Consensus sequence: VVTWATTAATTABBYC

Reverse complement motif

Consensus sequence: GMVBTAATTAATWAVB



Dataset #: 4 **Motif ID: 126** **Motif name: yvTGCAGsCAcg**

Original motif

Consensus sequence: BVTGCAGSCABV



Reverse complement motif

Consensus sequence: VBTGSCTGCAVB



Best Matches for Motif ID 126 (Highest to Lowest)

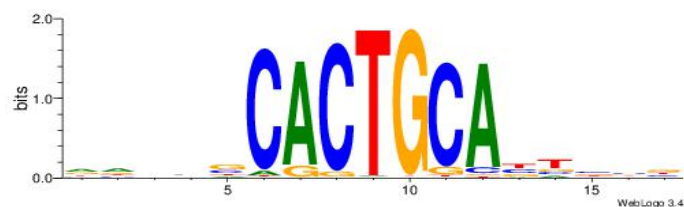
Motif ID:	UP00031
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0148057

Alignment:

BBBAVTGCAGTGBBVDD
---BVTGCAGSCABV--

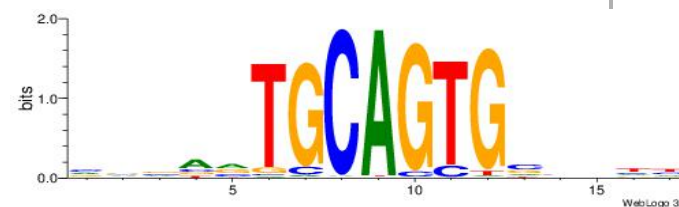
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID:	UP00000
Motif name:	Smad3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0155444

Alignment:

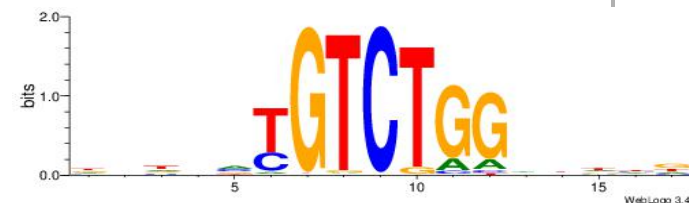
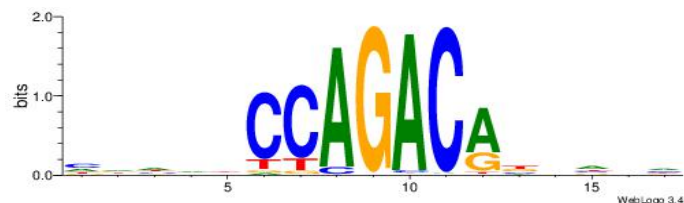
HVHBVTGTCTGGDDHDD
---VBTGSCTGCAVB--

Original motif

Consensus sequence: HDHDDCCAGACABBHVH

Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD

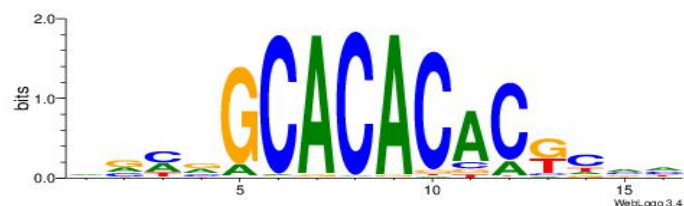


Motif ID: [UP00042](#)
 Motif name: Gm397_second
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0203202

Alignment:
 HBGYGTGTGTGCVRVD
 ---VBTGSCTGCAVB-

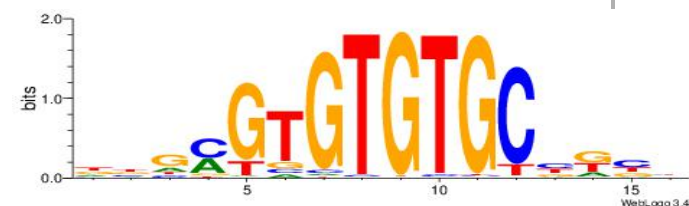
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Motif ID: [UP00000](#)

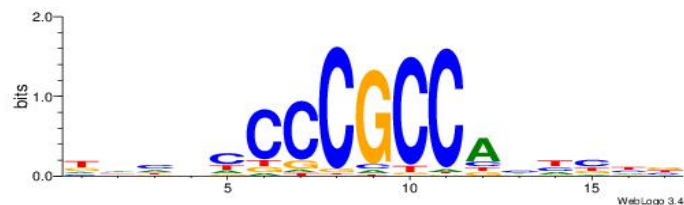
Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0217211

Alignment:

BHBHDTGGCGGGBDHD
 ---VBTGSCTGCAVB--

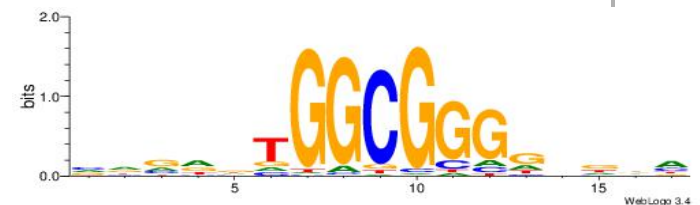
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12

Similarity score: 0.0221555

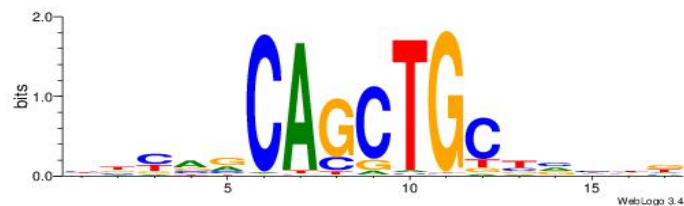
Alignment:

HHDVVGCAGCTGVBKVB

--BVTGCAGSCABV---

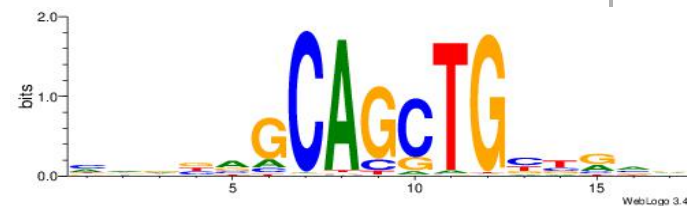
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



Dataset #: 4 **Motif ID: 127** **Motif name: rryCAGGGAyw**

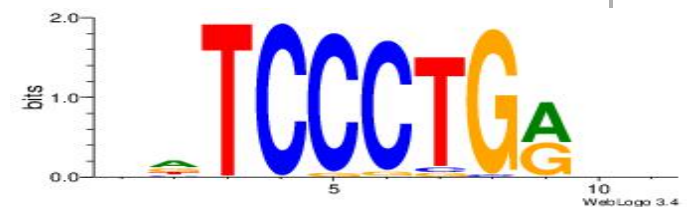
Original motif

Consensus sequence: DDYCAGGGAHD



Reverse complement motif

Consensus sequence: DHTCCCTGMDD



Best Matches for Motif ID 127 (Highest to Lowest)

Motif ID: [UP00031](#)
Motif name: Zbtb3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

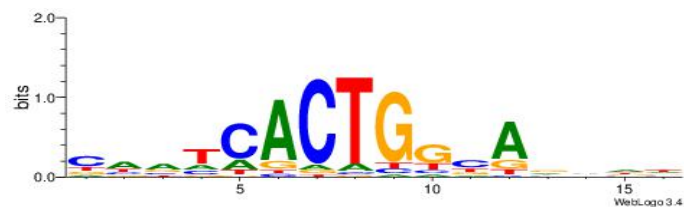
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.018701

Alignment:

```
DDHHTBCCAGTGABHG
-----DDYCAGGGAHD--
```

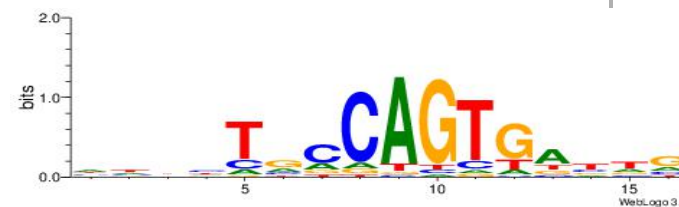
Original motif

Consensus sequence: CHVTCACTGGBADHDD



Reverse complement motif

Consensus sequence: DDHHTBCCAGTGABHG



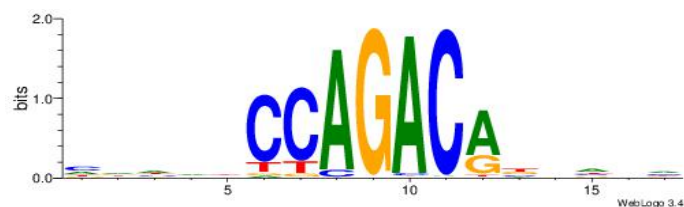
Motif ID:	UP000000
Motif name:	Smad3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0230154

Alignment:

HDHDDCCAGACABBHVH
---DDYCAGGGAHD---

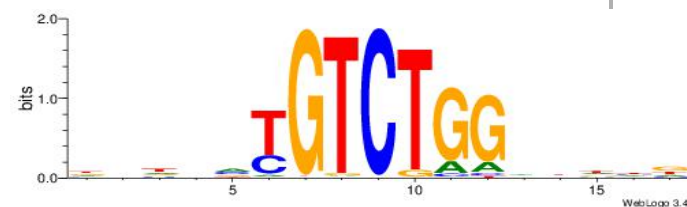
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



Motif ID:	UP00031
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0300205

Alignment:

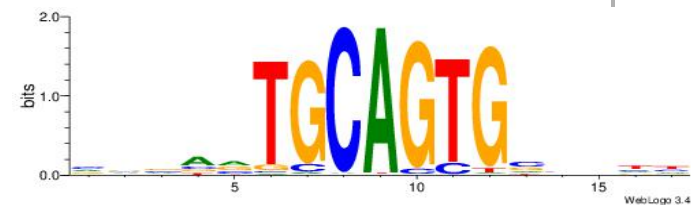
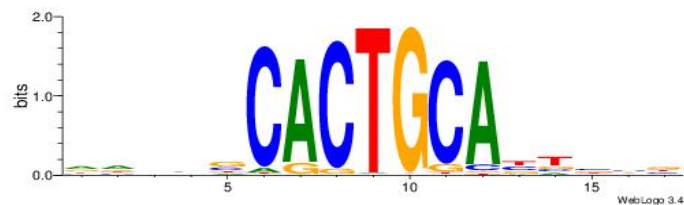
DDBBBCACTGCABTBBB
--DHTCCCTGMDD----

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



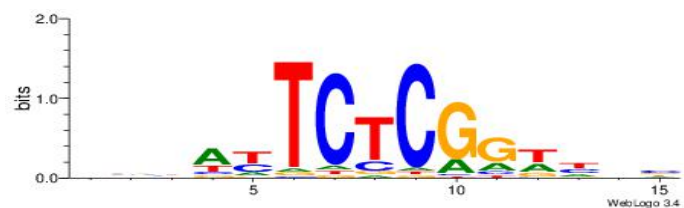
Motif ID: [UP00018](#)
 Motif name: Irf4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0316143

Alignment:

VVBAYTCTCGGWHDB
 ---DHTCCCTGMDD-

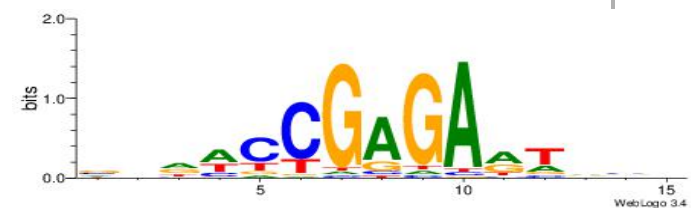
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [>UP00011](#)

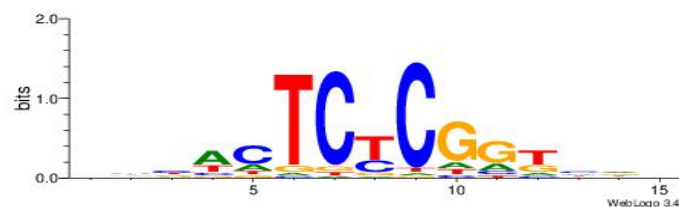
Motif name:	Irf6_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0321346

Alignment:

```
VBBACTCYCGGKHDV
---DHTCCCTGMDD-
```

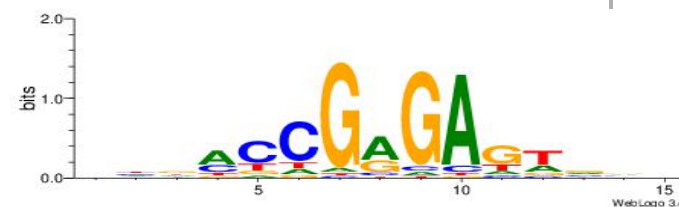
Original motif

Consensus sequence: VBBACTCYCGGKHDV



Reverse complement motif

Consensus sequence: VDDRCCGMGAGTBBB



Results created by MOTIFSIM on 11-19-2016 22:23:05

Runtime: 867.303 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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