



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

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
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM254.txt	45	1
MEME-CHIP_DM254.txt	24	2
PScanChIP_DM254.txt	63	3
RSAT_peak-motifs_DM254.txt	39	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: AGRKGGCR



Reverse complement motif

Consensus sequence: KGCCYKCT



Best Matches for Motif ID 1 (Highest to Lowest)

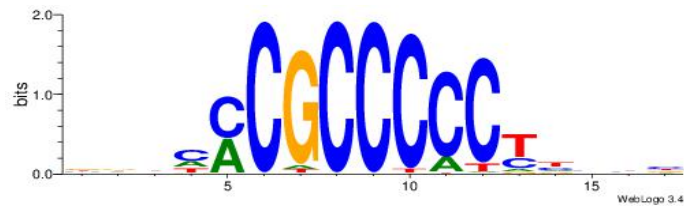
Motif ID:	UP00002
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

```
BVVHAGGGGGCGRDHBB  
----AGRKGGCR-----
```

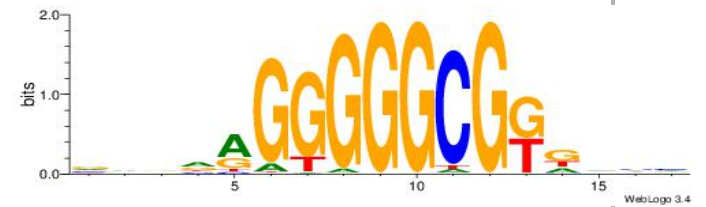
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



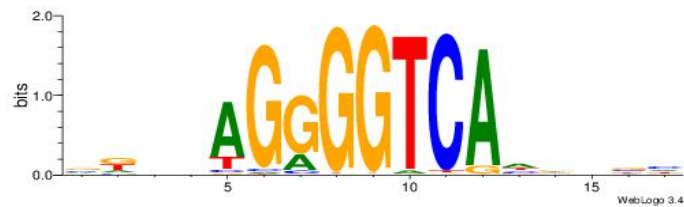
Motif ID: [UP00079](#)
Motif name: Esrra_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0152094

Alignment:

```
VKBBAGGGGTCAHDBBH  
----AGRKGCCR-----
```

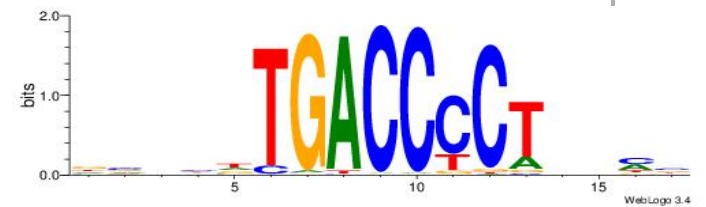
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



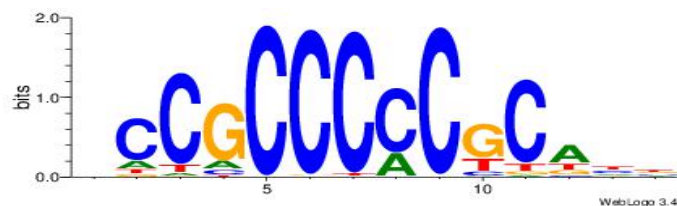
Motif ID: [UP00007](#)
Motif name: Egr1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0160089

Alignment:

```
VHTGCGGGGGCGGH  
----AGRKGCCR--
```

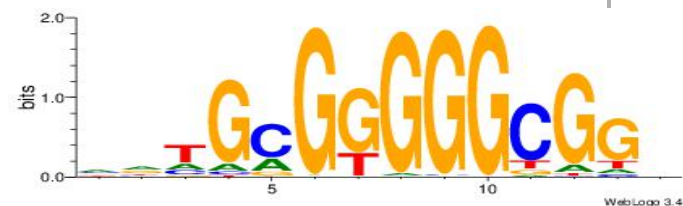
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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

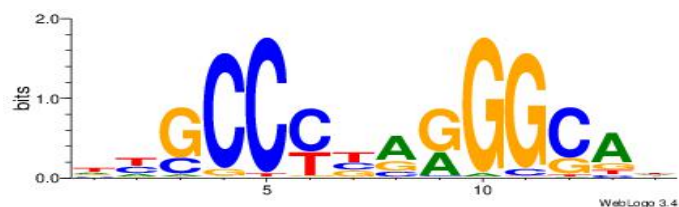
Position number: 6
Number of overlap: 8
Similarity score: 0.0244919

Alignment:

HTGCCMTVKGGCMD
-KGCCYKCT-----

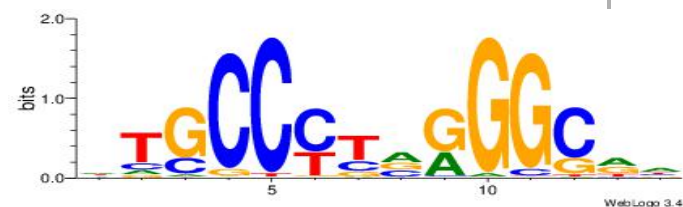
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



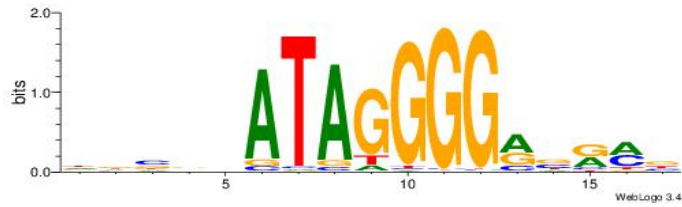
Motif ID: [UP00070](#)
Motif name: Gcm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0267457

Alignment:

DDBVHATAGGGGRBRMB
-----AGRKGGCR--

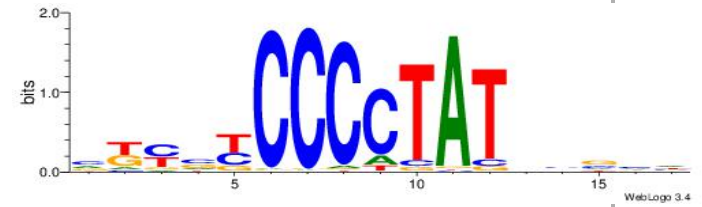
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



Dataset #: 1

Motif ID: 5

Motif name: Motif 5

Original motif

Consensus sequence: CCCCDCCC



Reverse complement motif

Consensus sequence: GGDGDDGG



Best Matches for Motif ID 5 (Highest to Lowest)

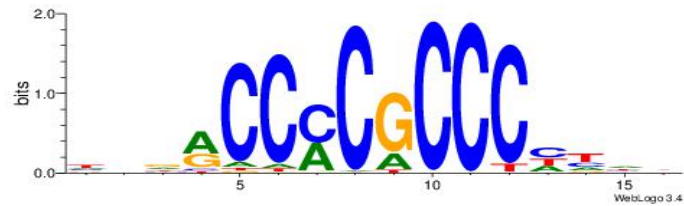
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0

Alignment:

HBDRCCMCGCCCHHHD
-----CCCCDCCC-----

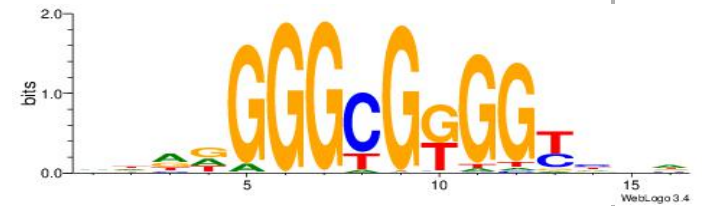
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0165797

Alignment:

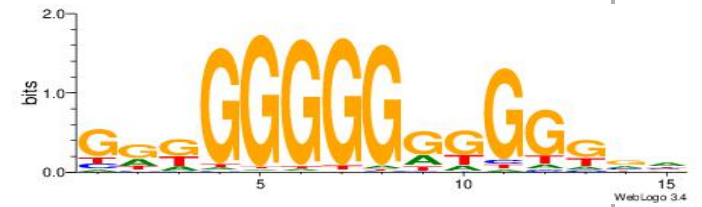
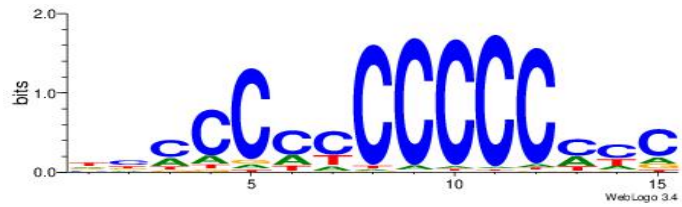
GKRGGGGGGGGGGBD
-----GGGDGGGG--

Original motif

Consensus sequence: DBCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

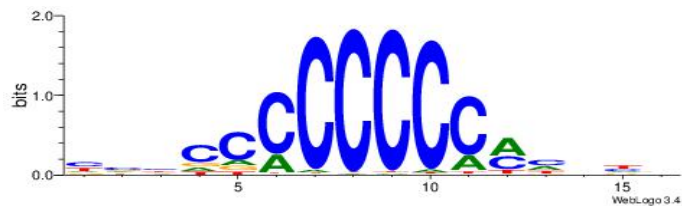


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.026633

Alignment:
 BHHDYGGGGGGGBVD
 -----GGGDGGGG---

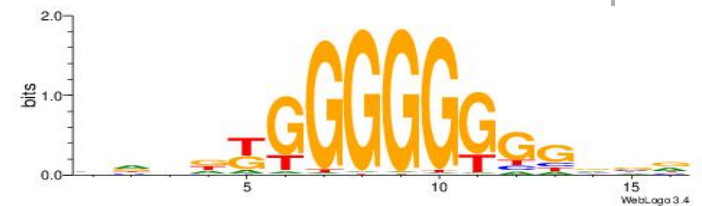
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGBVD



Motif ID: [UP00538](#)

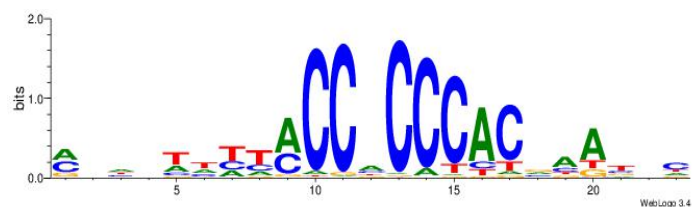
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0273225

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----CCCCDCCC-----

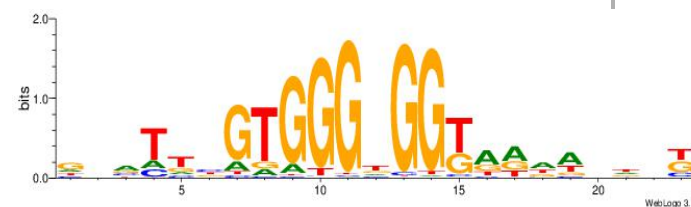
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8

Similarity score: 0.0364166

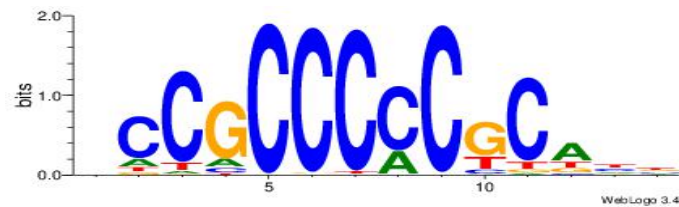
Alignment:

VHTGCGGGGGCGGH

-----GGGDGGGG-

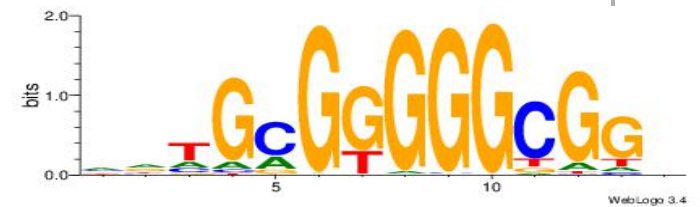
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Dataset #: 1

Motif ID: 8

Motif name: Motif 8

Original motif

Consensus sequence: AAATAH



Reverse complement motif

Consensus sequence: DTATTT



Best Matches for Motif ID 8 (Highest to Lowest)

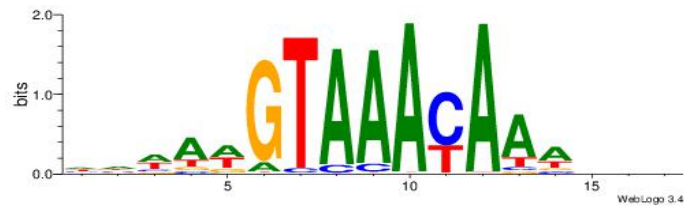
Motif ID: [UP00073](#)
Motif name: Foxa2_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0

Alignment:
 HHWAWGTAAAYAAVDB
 -----AAATAH-----

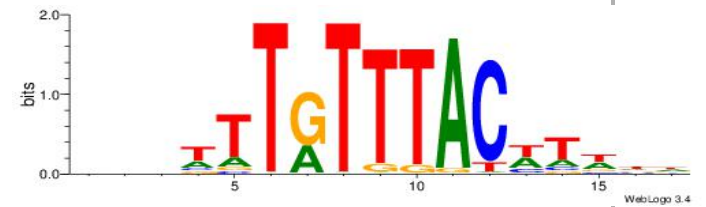
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



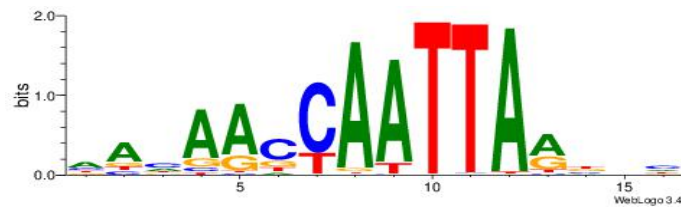
Motif ID: [UP00166](#)
 Motif name: Barhl1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.00310877

Alignment:

DDVKTAATTGGTTDTH
---DTATTT-----

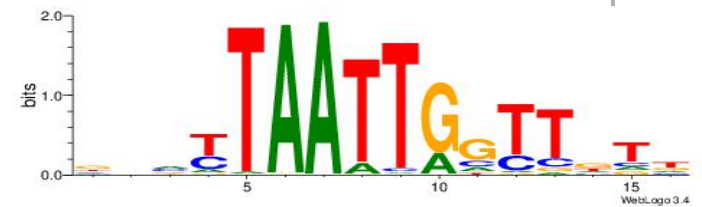
Original motif

Consensus sequence: HAHAACCAATTARBDH



Reverse complement motif

Consensus sequence: DDVKTAATTGGTTDTH



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: 4
Number of overlap: 6
Similarity score: 0.00420475

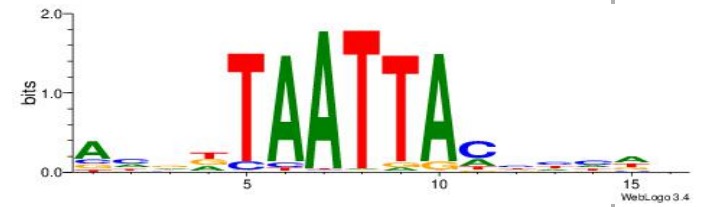
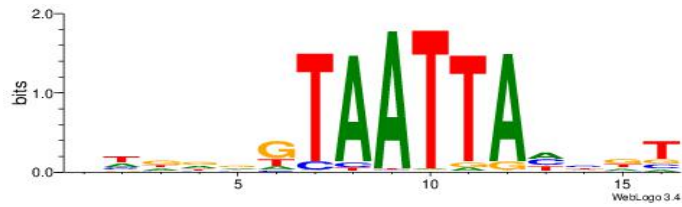
Alignment:
BHDDDGTAATTAHHDT
-----AAATAH---

Original motif

Consensus sequence: BHDDDGTAATTAHHDT

Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV

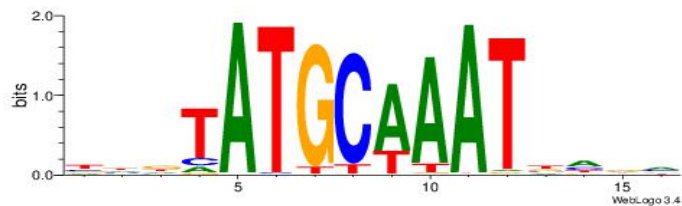


Motif ID: [UP00179](#)
 Motif name: Pou2f3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00508605

Alignment:
 BHDTATGCAAATBHDV
 -----AAATAH--

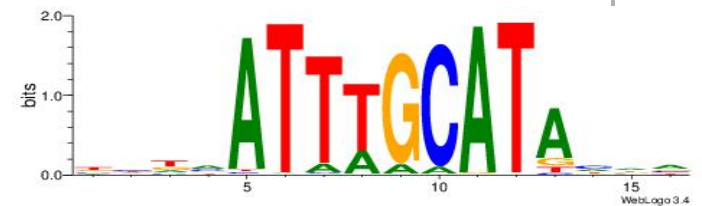
Original motif

Consensus sequence: BHDTATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



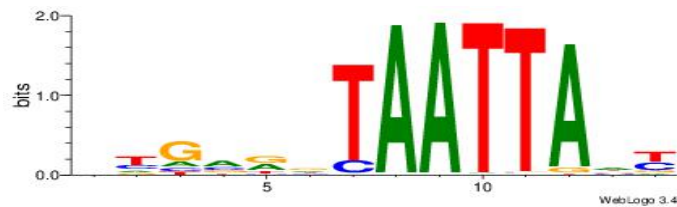
Motif ID: [UP00202](#)

Motif name: Dlx1
 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: 6
 Similarity score: 0.00517242

Alignment:
 BHGVRDTAATTADY
 -----DTATTT---

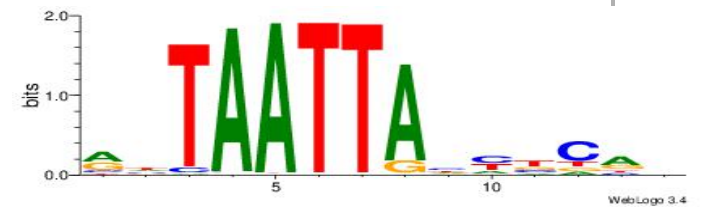
Original motif

Consensus sequence: BHGVRDTAATTADY



Reverse complement motif

Consensus sequence: MDTAATTAHMBCHB



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

Original motif
 Consensus sequence: CACGTR

Reverse complement motif
 Consensus sequence: MACGTG



Best Matches for Motif ID 20 (Highest to Lowest)

Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0

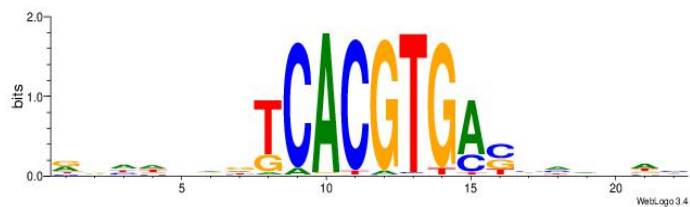
Alignment:

```

DDHBHBSTCACGTGAHBBDHMM
-----CACGTR-----
  
```

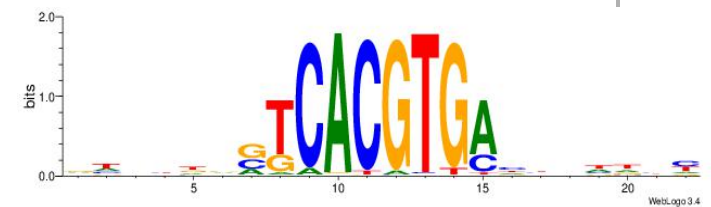
Original motif

Consensus sequence: RDHDBVDTCACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMM

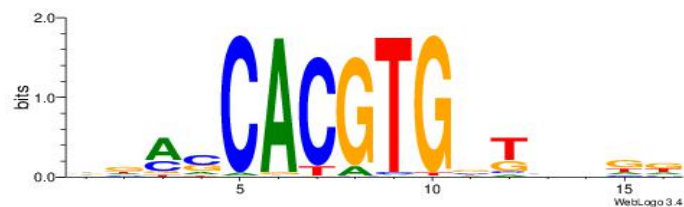


Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00504882

Alignment:
 HHVBABCACGTGSTHD
 -----CACGTR-----

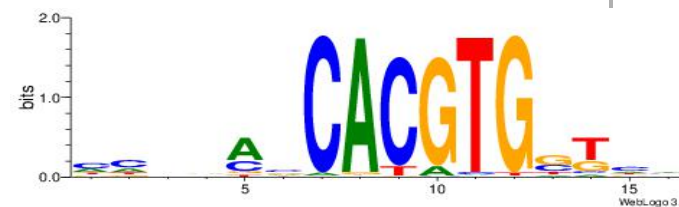
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9

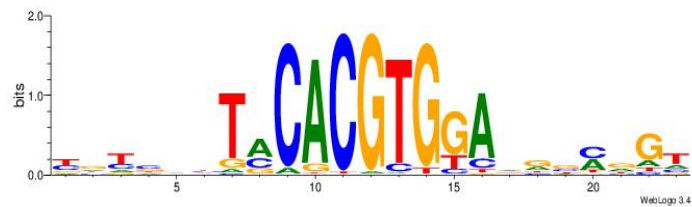
Number of overlap: 6
Similarity score: 0.0050835

Alignment:

YDYBDHTMCACGTGGADDBMDGT
-----MACGTG-----

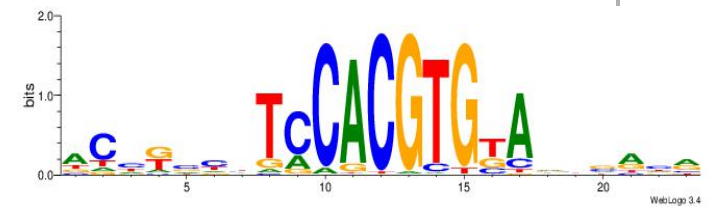
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBDHTCCACGTGYAHHBMHM



Motif ID: [UP00046](#)
Motif name: Tcfe2a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0336216

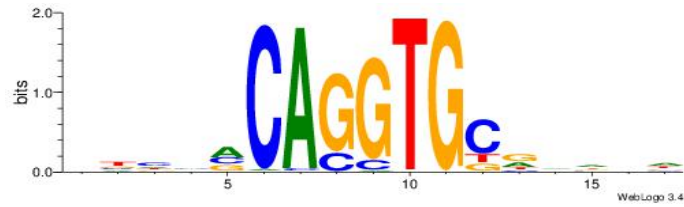
Alignment:

DHDBHGCACCTGBDDVB
-----CACGTR-----

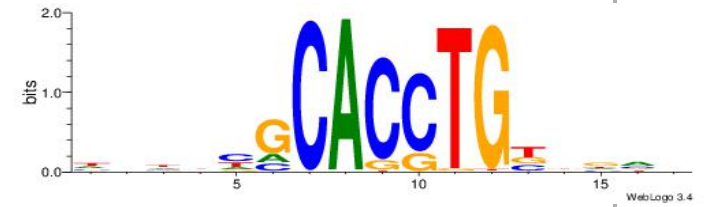
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



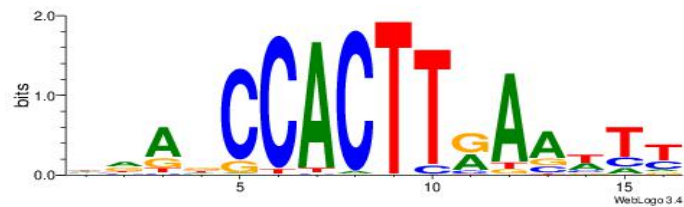
Motif ID: [UP00249](#)
Motif name: Nkx2-5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0339468

Alignment:

```
HDADCCACTTTRAAWTT  
-----CACGTR-----
```

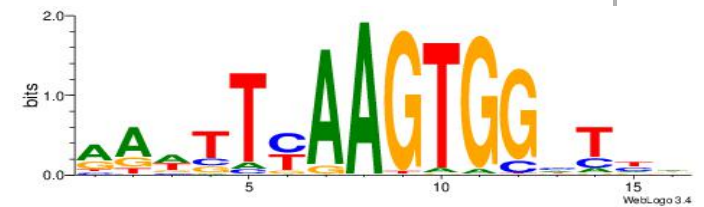
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Dataset #: 2 **Motif ID: 46** **Motif name: Motif 46**

Original motif

Consensus sequence: AGRKGGCR



Reverse complement motif

Consensus sequence: KGCCYKCT



Best Matches for Motif ID 46 (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:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

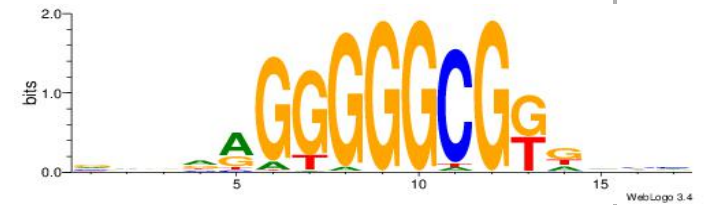
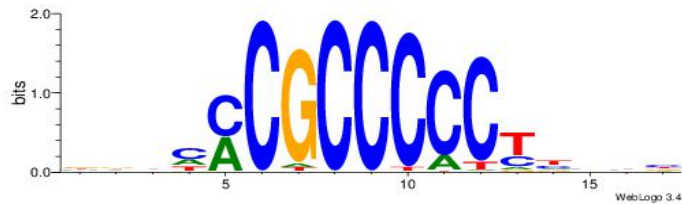
```
BVVHAGGGGGCGRDHHB  
-----AGRKGGCR-----
```

Original motif

Consensus sequence: BDHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

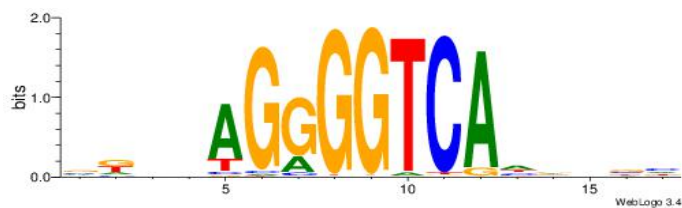


Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0154192

Alignment:
 VKBBAGGGGTCAHDBBH
 ----AGRKGGCR-----

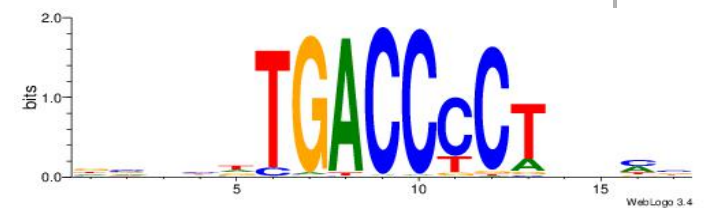
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00007](#)

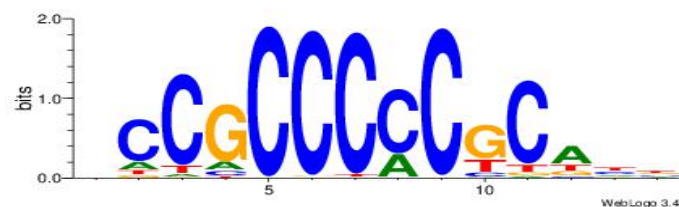
Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0160089

Alignment:

VHTGCGGGGGCGGH
 ----AGRKGGCR--

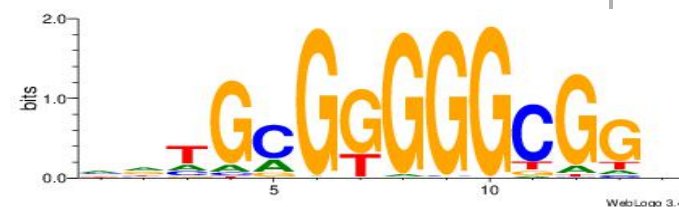
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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: 8

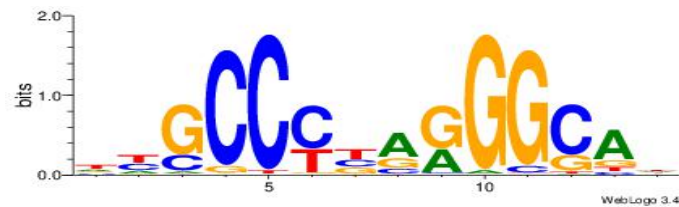
Similarity score: 0.0241611

Alignment:

HTGCCMTVKGGCMD
-KGCCYKCT-----

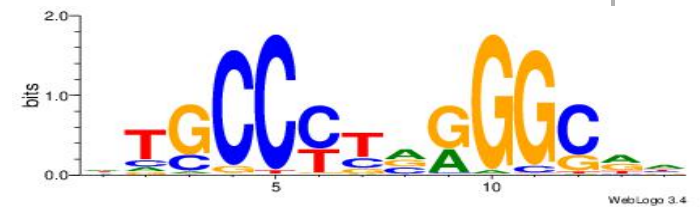
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



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: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0267457

Alignment:

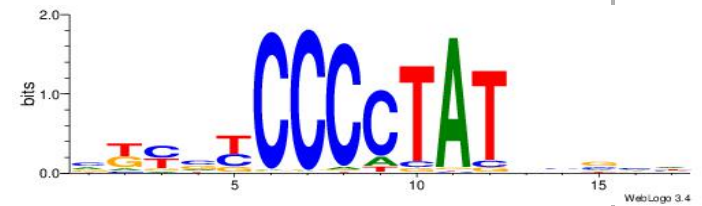
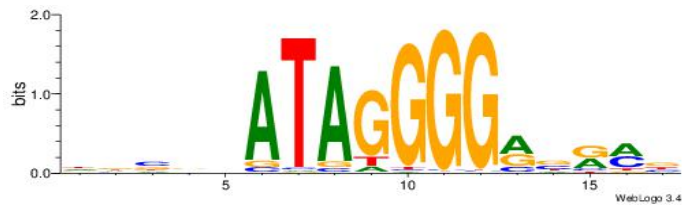
DDBVHATAGGGGRBRMB
-----AGRKGCCR--

Original motif

Consensus sequence: DDBVHATAGGGGRBRMB

Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



Dataset #: 2 Motif ID: 48 Motif name: Motif 48

Original motif

Consensus sequence: CCACYAGR



Reverse complement motif

Consensus sequence: MCTKGTGG



Best Matches for Motif ID 48 (Highest to Lowest)

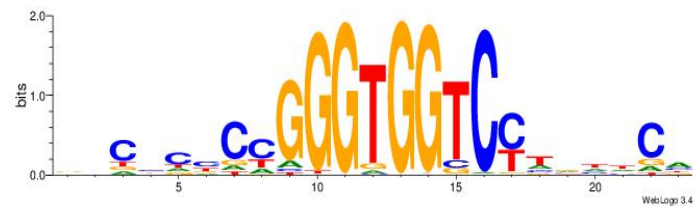
Motif ID:	UP00538
Motif name:	Gli1_v016060_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0

Alignment:

HGDHVHKGACCACCCGGBGBGDB
-----CCACYAGR-----

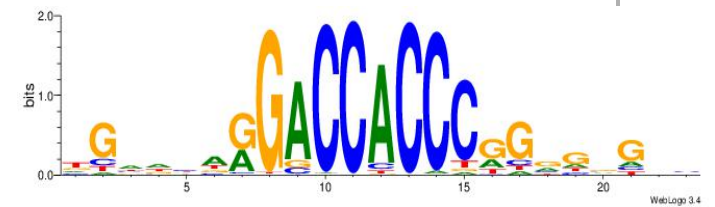
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID: [UP00539](#)
Motif name: Gli2_v015681_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 8
Similarity score: 0.000875703

Alignment:

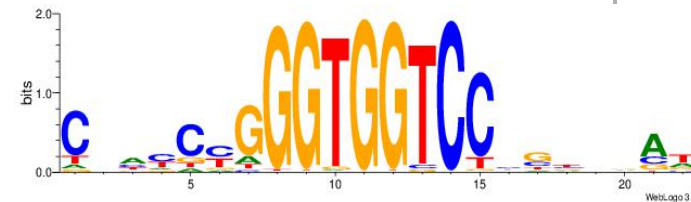
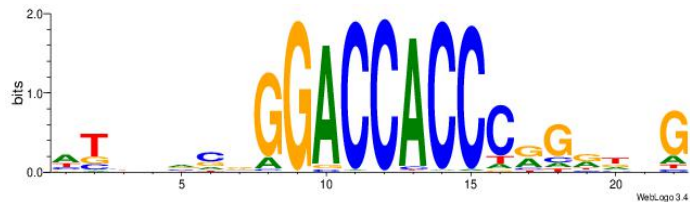
CBDMCMGGGTGGTCCHVBVBAH
----MCTKGTGG-----

Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG

Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

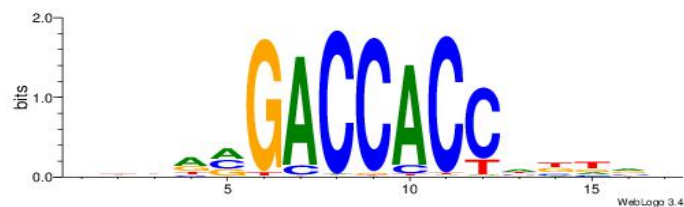


Motif ID: [UP00047](#)
 Motif name: Zbtb7b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.00261558

Alignment:
 BDDRVGACCACCHBDVB
 -----CCACYAGR--

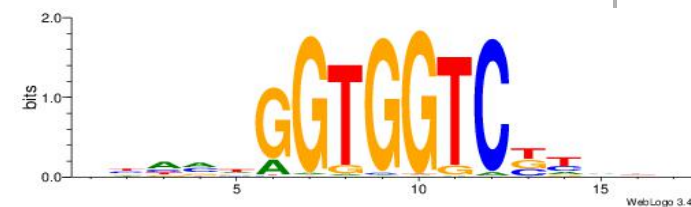
Original motif

Consensus sequence: BDDRVGACCACCHBDVB



Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



Motif ID: [UP00540](#)

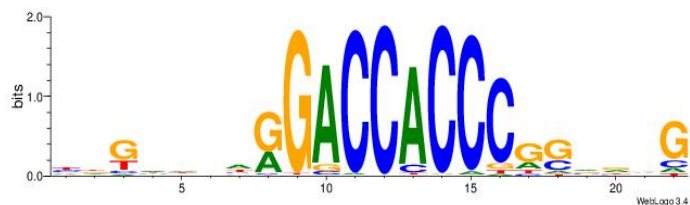
Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00296024

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 ----MCTKGTGG-----

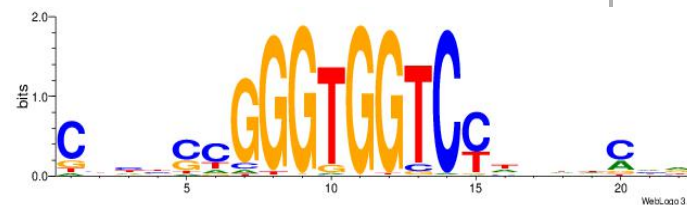
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



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

Similarity score: 0.0161251

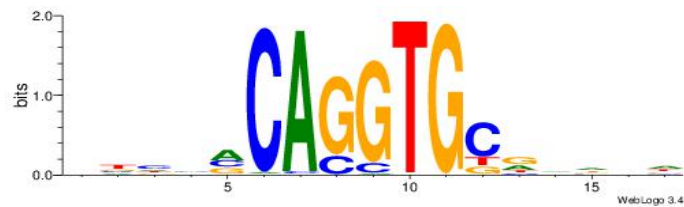
Alignment:

VBHHVCAGGTGCDVDHD

----MCTKGTGG-----

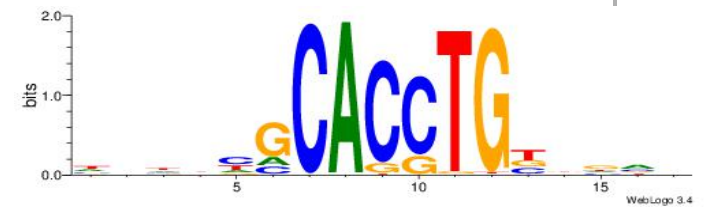
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Dataset #: 2 Motif ID: 65 Motif name: Motif 65

Original motif

Consensus sequence: ARAACA



Reverse complement motif

Consensus sequence: TGTTMT



Best Matches for Motif ID 65 (Highest to Lowest)

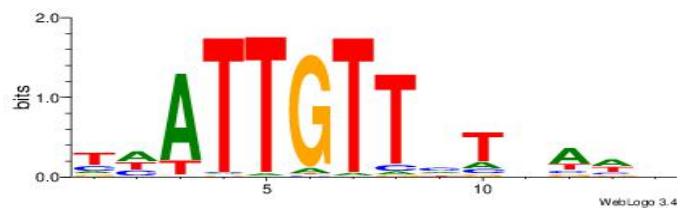
Motif ID: [UP00101](#)
Motif name: Sox12_primary
Species: Mus musculus
Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 6
Similarity score: 0

Alignment:
DWITHAVAACAATHA
-----ARAACA-----

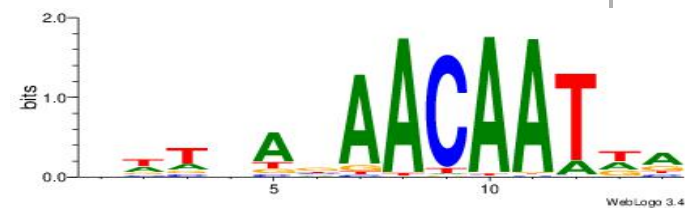
Original motif

Consensus sequence: THATTGTTVTHAWH



Reverse complement motif

Consensus sequence: DWTHAVAACAATHA



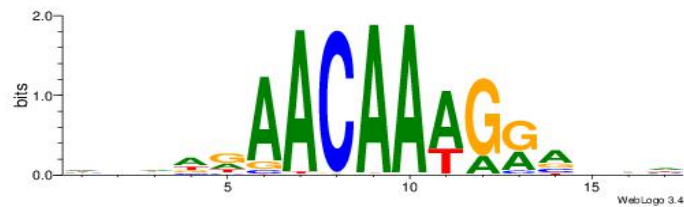
Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 6
Similarity score: 0.000395587

Alignment:

HBDDRAACAAAGRABHH
---ARAACA-----

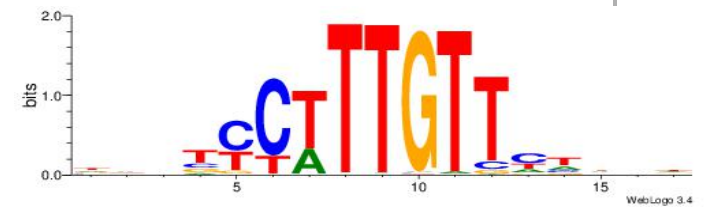
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 6
Similarity score: 0.00357565

Alignment:

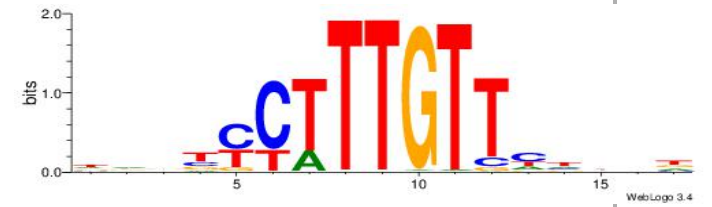
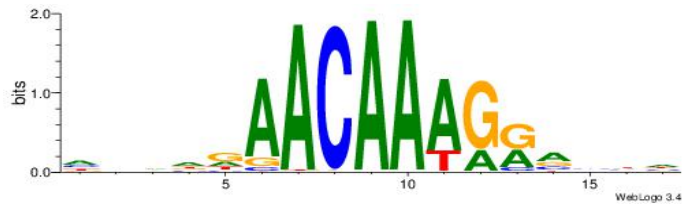
HBDDDAACAAAGRVBHH
---ARAACA-----

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

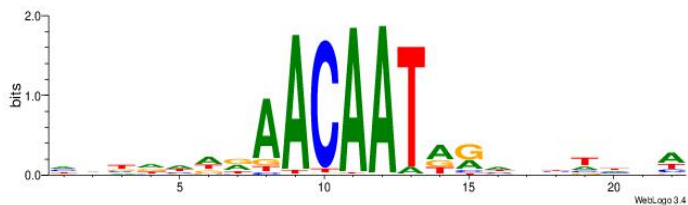
Consensus sequence: HHBBMCTTTGTTMDDVH



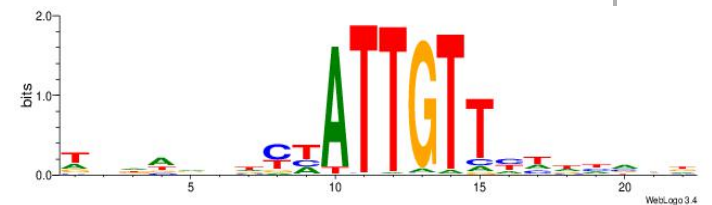
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00753019

Alignment:
 HHBDHDDAACAATDRHHHHHBW
 -----ARAACA-----

Original motif
 Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif
 Consensus sequence: WBHHHHMDATTGTTHDHDVHH



Motif ID: [UP00039](#)

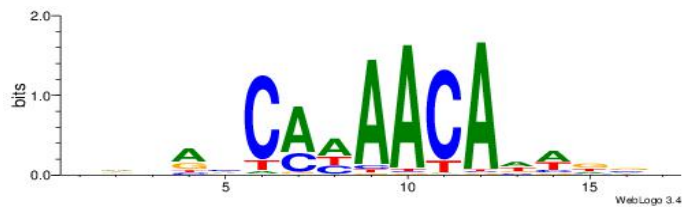
Motif name: Foxj3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0083324

Alignment:

DVHWDTGTTWTGDTBDH
 -----TGTTMT-----

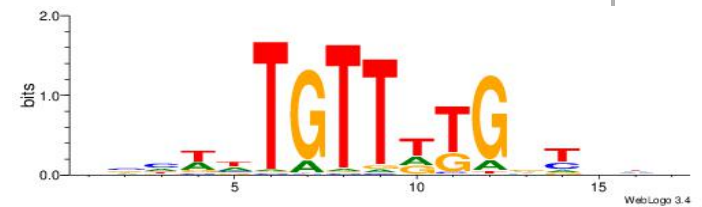
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



Dataset #: 3 Motif ID: 72 Motif name: ArntAhr

Original motif

Consensus sequence: YGCGTG

Reverse complement motif

Consensus sequence: CACGCM



Best Matches for Motif ID 72 (Highest to Lowest)

Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0

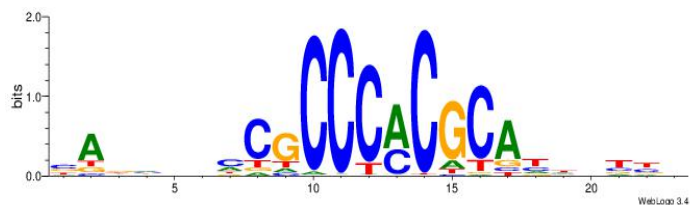
Alignment:

```

VVVDHHTGCGYGGGCGDHSVHHTB
-----YCGTG-----
  
```

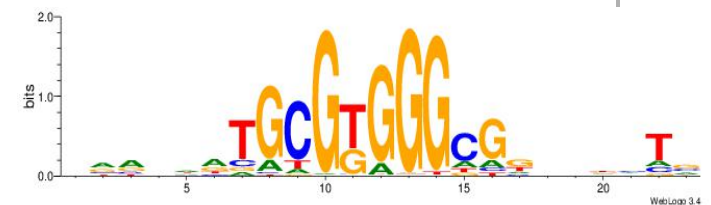
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB

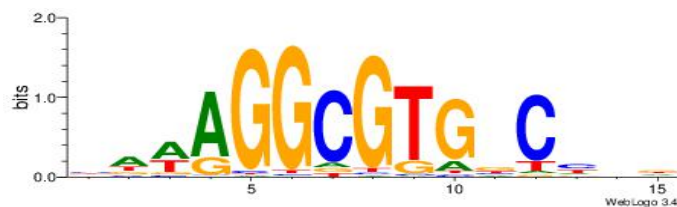


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

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

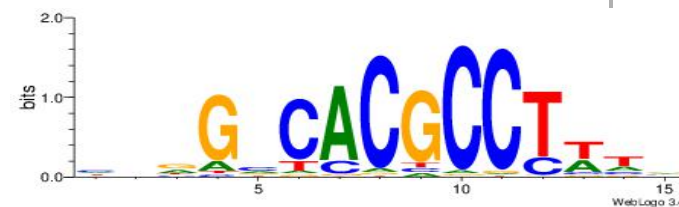
Original motif

Consensus sequence: BDWAGGCGTGBCHHH



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB

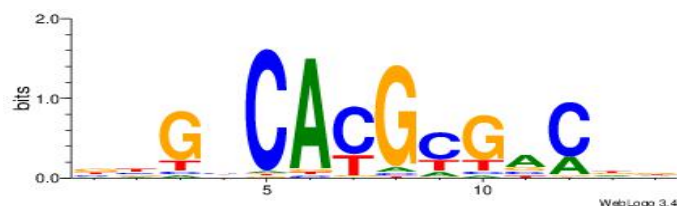


Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

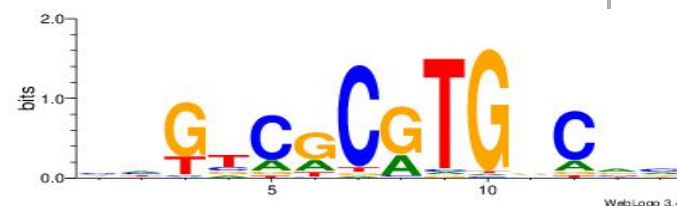
Number of overlap: 6
Similarity score: 0.00348048

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

Original motif
Consensus sequence: BBGHCACGCGACDD



Reverse complement motif
Consensus sequence: HDGTCGCGTGDCVB



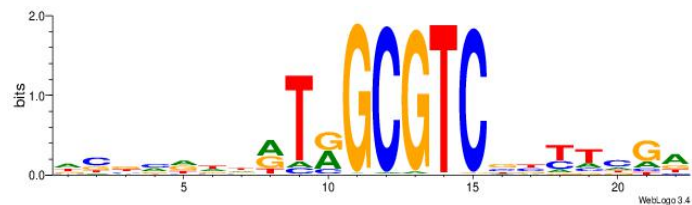
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 6
Similarity score: 0.00526158

Alignment:
TCDAMVBGACGCMKDDDVBBDD
-----CACGCM-----

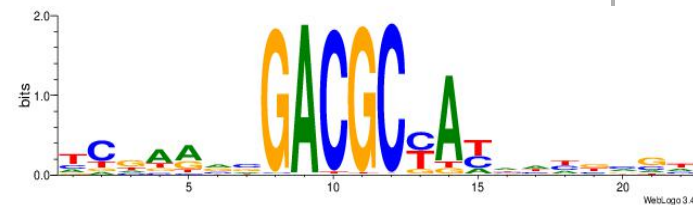
Original motif

Reverse complement motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Consensus sequence: TCDAMVBGACGCMAKDDDVBBDD



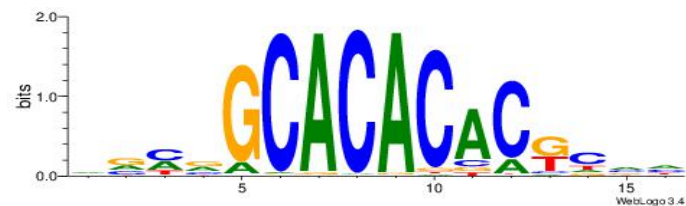
Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.00558171

Alignment:

```
HBGYGTGTGTGCVRVD  
---YCGTG-----
```

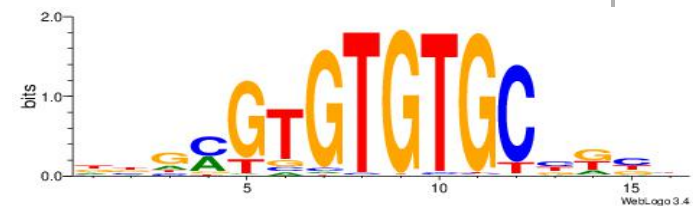
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Dataset #: 3 Motif ID: 101 Motif name: NFIC

Original motif

Consensus sequence: TTGGCD



Reverse complement motif

Consensus sequence: DGCCAA



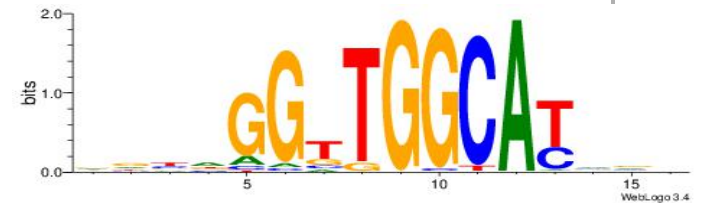
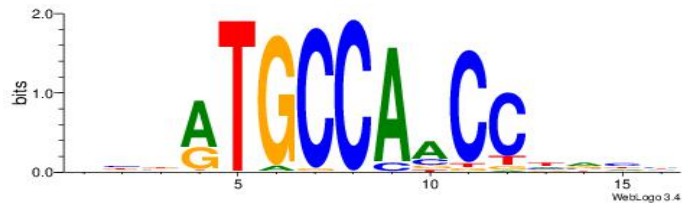
Best Matches for Motif ID 101 (Highest to Lowest)

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: 5
Number of overlap: 6
Similarity score: 0

Alignment:
DBBATGCCAACCHVHH
----DGCCAA-----

Original motif
Consensus sequence: DBBATGCCAACCHVHH

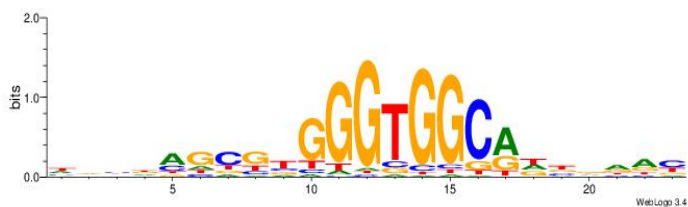
Reverse complement motif
Consensus sequence: DDBHGGTTGGCATVBD



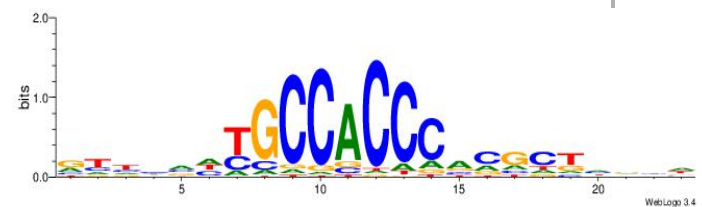
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0174701

Alignment:
 BDDHVDKGCCACCCVCGCTDBVH
 -----DGCCAA-----

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00003](#)

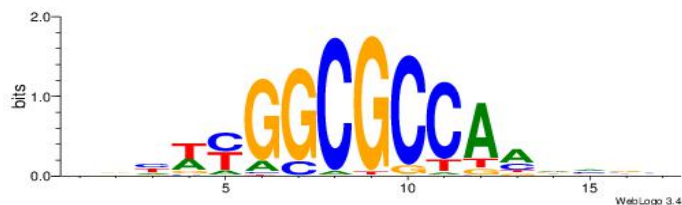
Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0231918

Alignment:

BBBDYTGGCGCCKWDBD
 ----TTGGCD-----

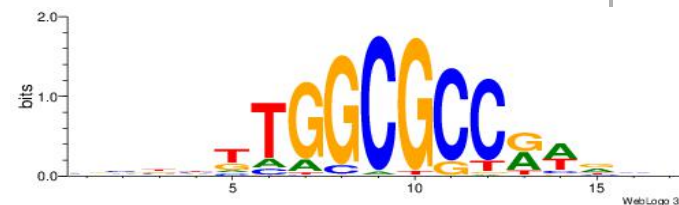
Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD



Motif ID: [UP00001](#)
 Motif name: E2F2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6

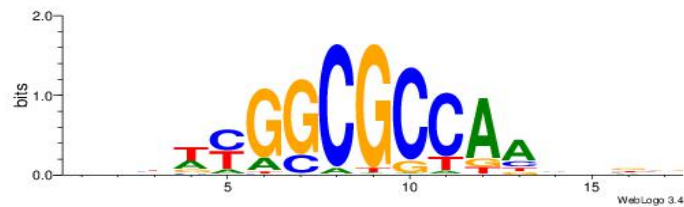
Similarity score: 0.0258343

Alignment:

BBBDTTGGCGCKWVVD
----TTGGCD-----

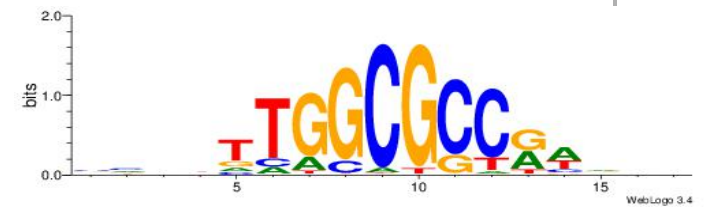
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDTTGGCGCKWVVD



Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 6
Similarity score: 0.0266372

Alignment:

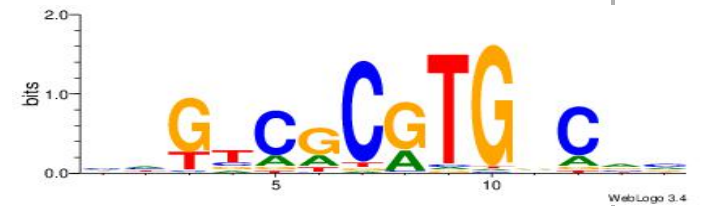
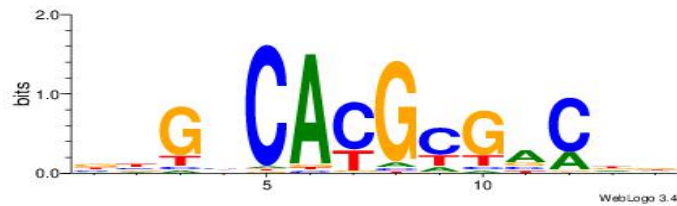
HDGTTCGCGTGDCVB
-----TTGGCD-

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTTCGCGTGDCVB



Dataset #: 3 Motif ID: 127 Motif name: YY1

Original motif

Consensus sequence: RCCATB



Reverse complement motif

Consensus sequence: BATGGM



Best Matches for Motif ID 127 (Highest to Lowest)

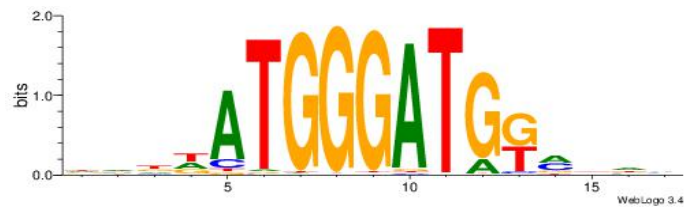
Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	6
Similarity score:	0

Alignment:

DVDDATGGGATGKMDDV
-----BATGGM----

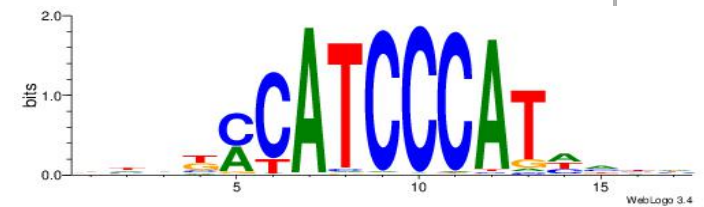
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



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: 6
Similarity score: 0.00378844

Alignment:

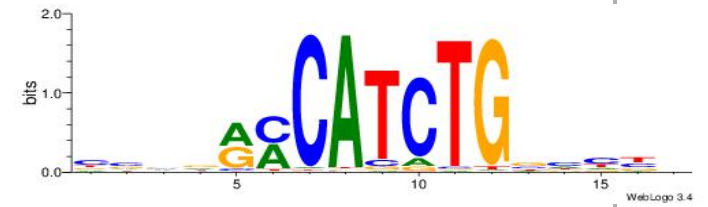
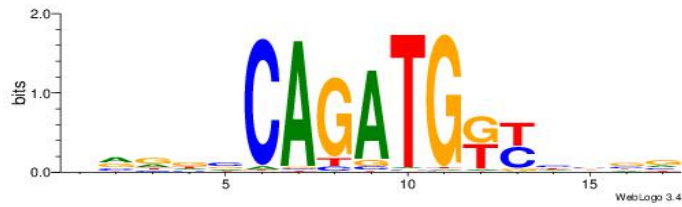
HVDDVCAGATGKYHBBV
-----BATGGM----

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH

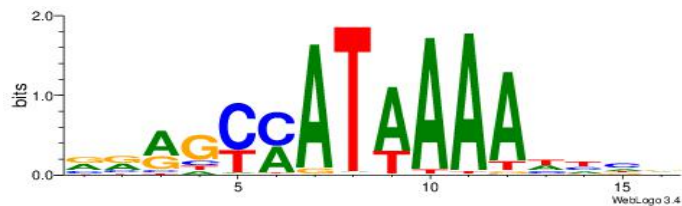


Motif ID: [UP00207](#)
 Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.0208704

Alignment:
 VRRGCMATAAAHHHD
 ---RCCATB-----

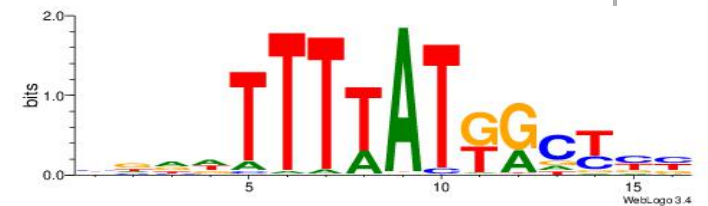
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



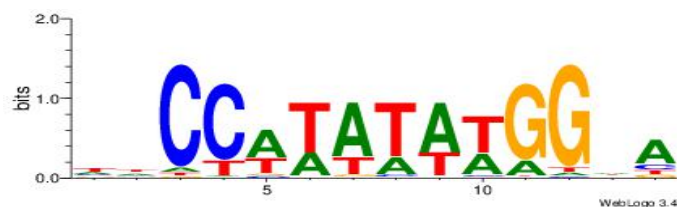
Motif ID: [UP00077](#)

Motif name: Srf_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: 6
 Similarity score: 0.023319

Alignment:
 HHCCWTATAWGGHA
 -----BATGGM-

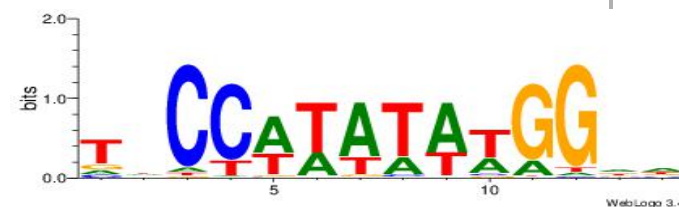
Original motif

Consensus sequence: HHCCWTATAWGGHA



Reverse complement motif

Consensus sequence: THCCWTATAWGGHH



Motif ID: [UP00213](#)
 Motif name: Hoxa9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 6

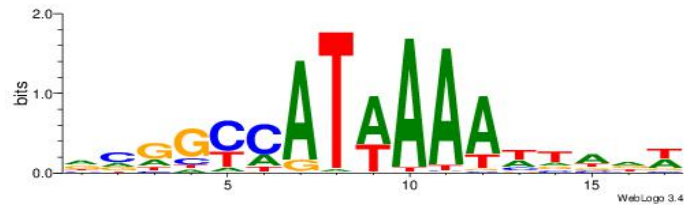
Similarity score: 0.0242984

Alignment:

DCGGYCATWAAAWTADW
---RCCATB-----

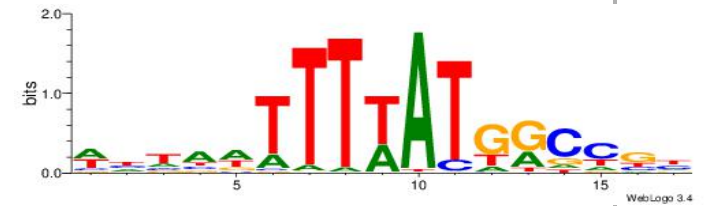
Original motif

Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



Results created by MOTIFSIM on 06-18-2018 16:50:38

Runtime: 1017.73 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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