



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_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)

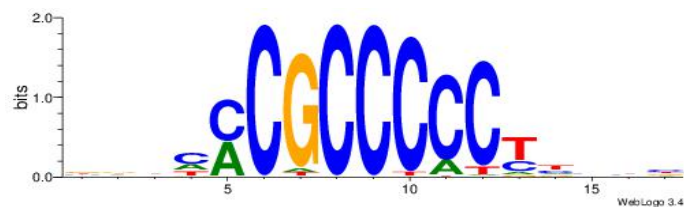
Motif ID:	UP00002
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

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

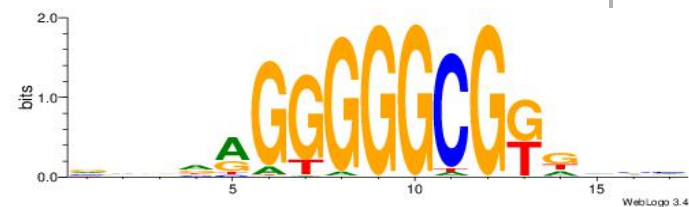
Original motif

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

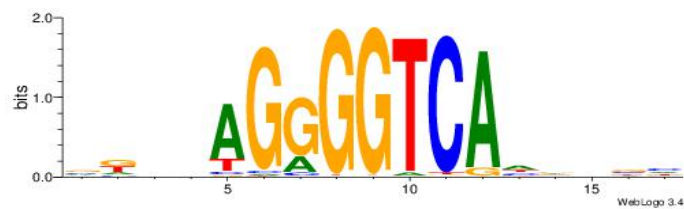
Alignment:

VKBBAGGGGTCAHDBBH

----AGRKGCCR-----

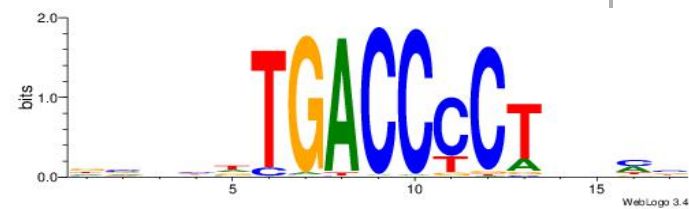
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



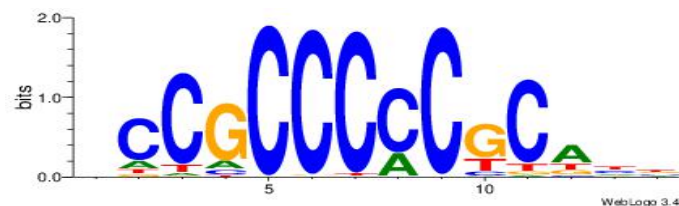
Motif ID: [UP00007](#)
Motif name: Egr1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0160089

Alignment:

VHTGCGGGGGCGGH
----AGRKGCCR--

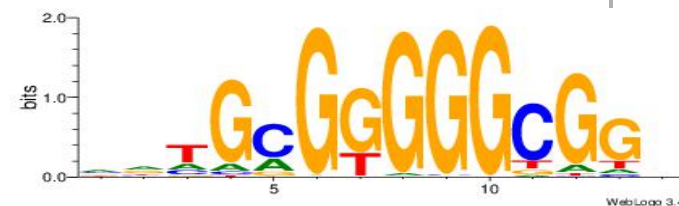
Original motif

Consensus sequence: HCCGCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



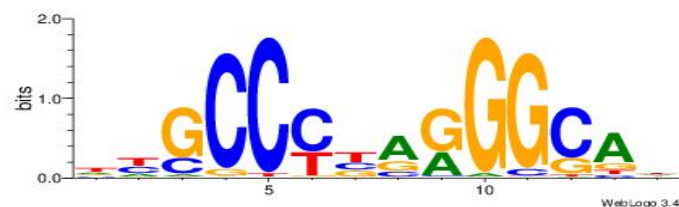
Motif ID: [UP00010](#)
Motif name: Tcfap2b_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward

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

Alignment:
 HTGCCMTVKGGCMD
 -KGCCYKCT-----

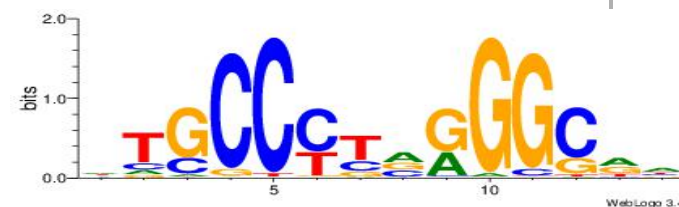
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

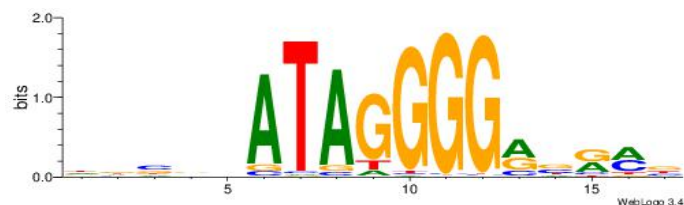
Consensus sequence: HTGCCMTVKGGCMD



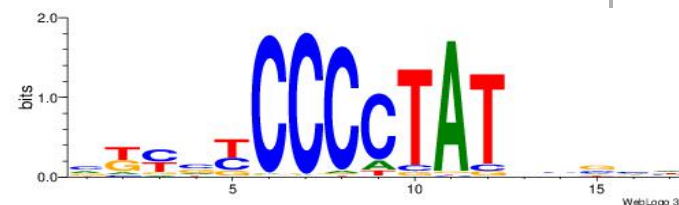
Motif ID: [UP00070](#)
 Motif name: Gcm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0267457

Alignment:
 DDBVHATAGGGGRBRMB
 -----AGRKGCCR--

Consensus sequence: DDBVHATAGGGGRBRMB



Consensus sequence: BYMBKCCCCTATDVBHD



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

Consensus sequence: CCCCDCCC



Consensus sequence: GGGDGGGG



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

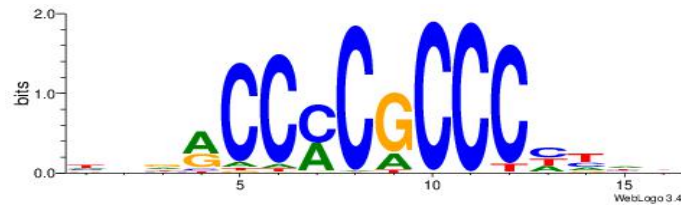
Alignment:

HBDRCCMCGCCCHHHD

-----CCCCDCCC-----

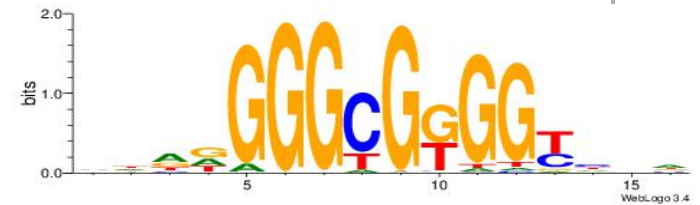
Original motif

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

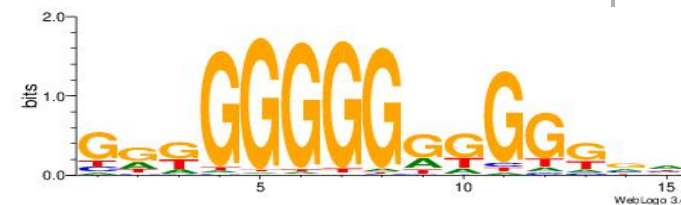
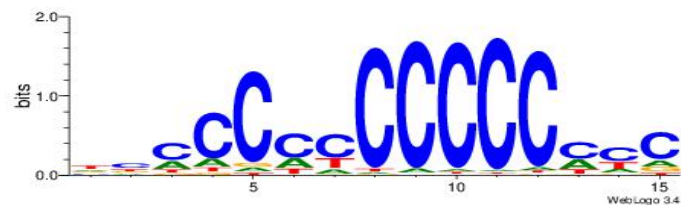
-----GGGDGGGG--

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

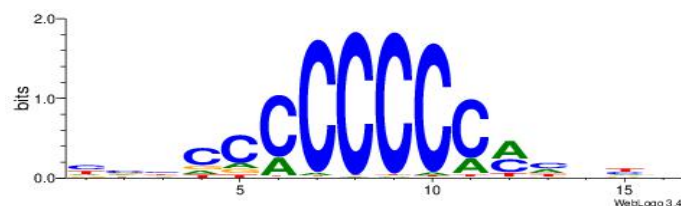


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.026633

Alignment:
 BHHDYGGGGGGGGBVD
 -----GGGDGGGG---

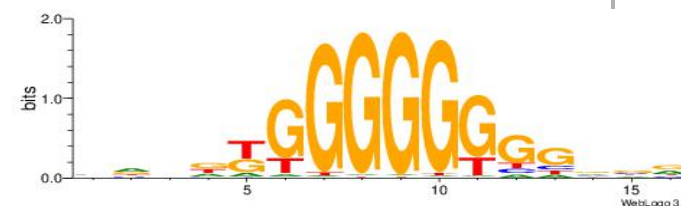
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



Motif ID: [UP00538](#)

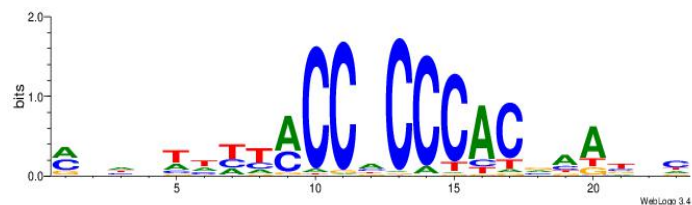
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0273225

Alignment:

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

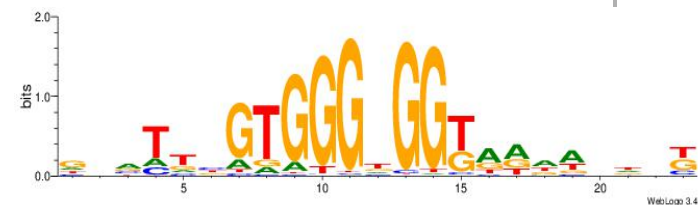
Original motif

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

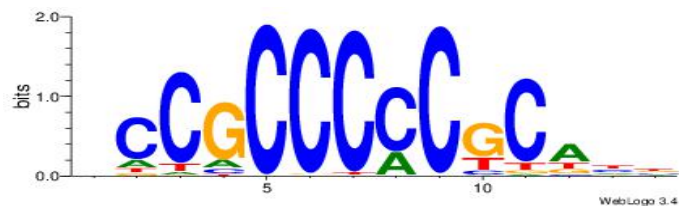
Alignment:

VHTGCGGGGGCGGH

-----GGGDGGGG--

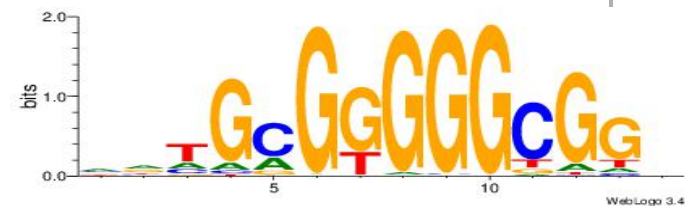
Original motif

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

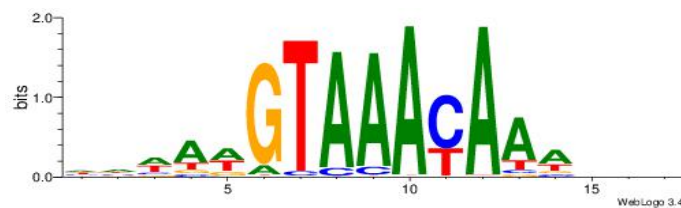
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	6
Similarity score:	0

Alignment:

```
HHWAWGTAAAYAAVDB
-----AAATAH-----
```

Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



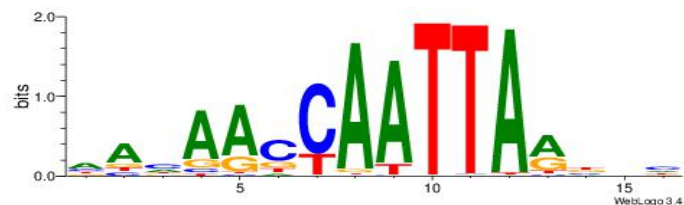
Motif ID:	UP00166
Motif name:	Barhl1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	6
Similarity score:	0.00310877

Alignment:

DDVKTAATTGGTTDTH
 ---DTATTT-----

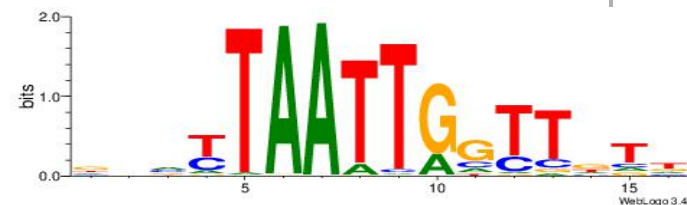
Original motif

Consensus sequence: HAHAAACCAATTARBDH



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:

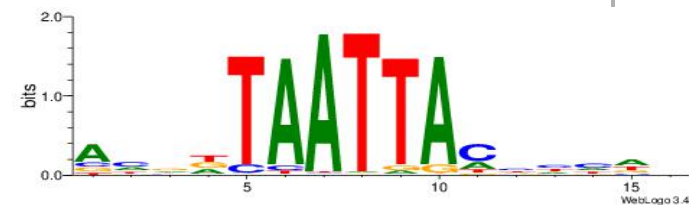
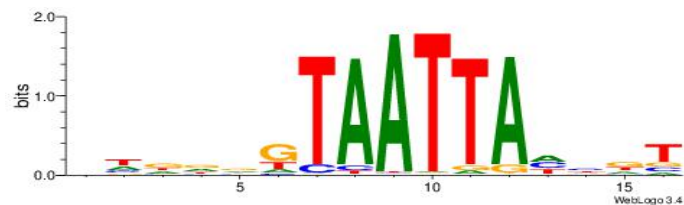
BHDDDGTAAATTAHHDT
 -----AAATAH---

Original motif

Consensus sequence: BHDDDGTAAATTAHHDT

Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV

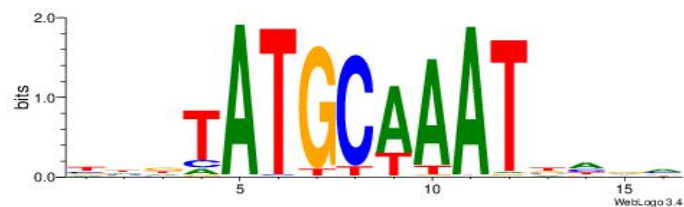


Motif ID: [UP00179](#)
 Motif name: Pou2f3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00508605

Alignment:
 BHD TATGCAAATBHDV
 -----AAATAH--

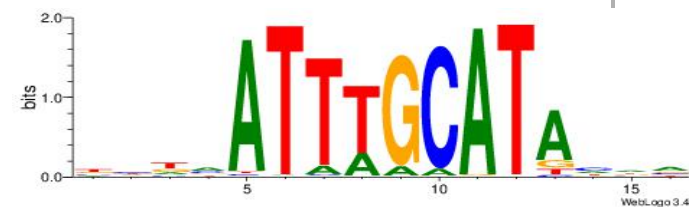
Original motif

Consensus sequence: BHD TATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



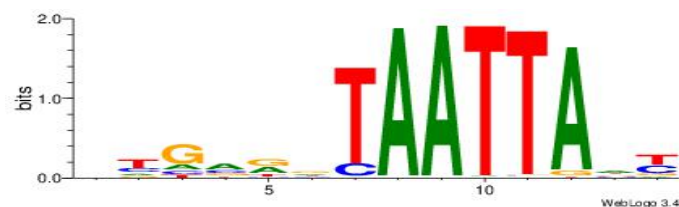
Motif ID: [UP00202](#)

Motif name: Dlx1
 Species: Mus musculus
 Matching format of first motif: 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---

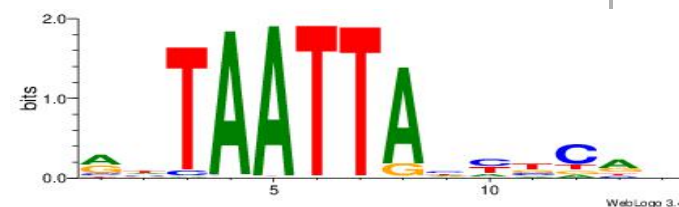
Original motif

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)

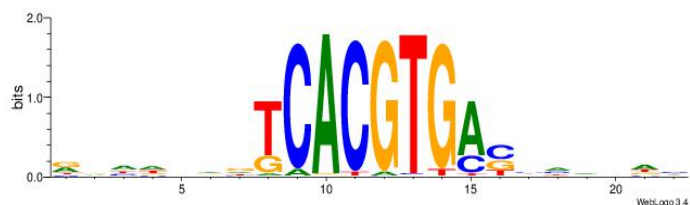
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0

Alignment:

DDHBHBSTCACGTGAHBBDDHMH
 -----CACGTR-----

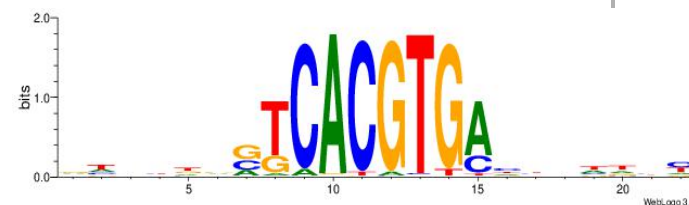
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDDHMH



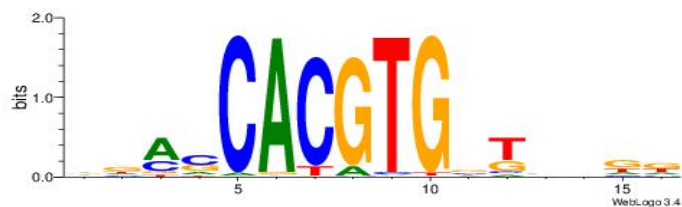
Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00504882

Alignment:

DDASCACGTGBTBVDD
 ----MACGTG-----

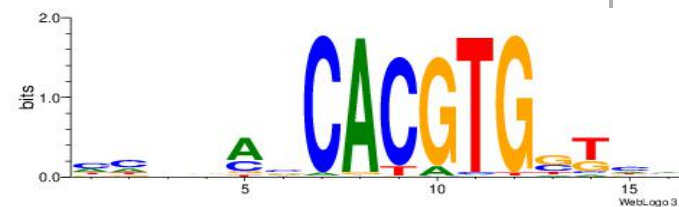
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



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

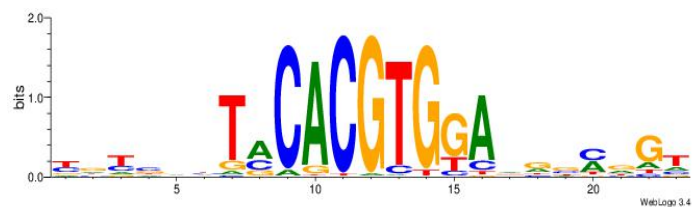
Number of overlap: 6
Similarity score: 0.0050835

Alignment:

ACHRBHDTCCACGTGYAHBMMH
-----CACGTR-----

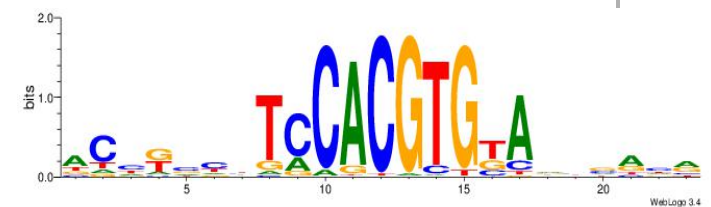
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



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

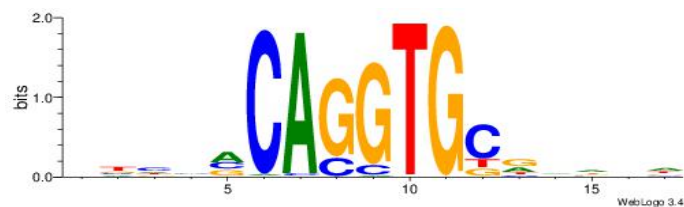
Alignment:

VBHHVCAGGTGCDVDHD
-----MACGTG-----

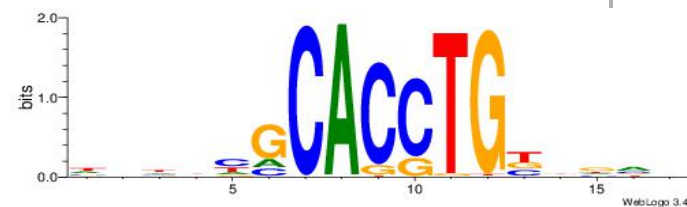
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



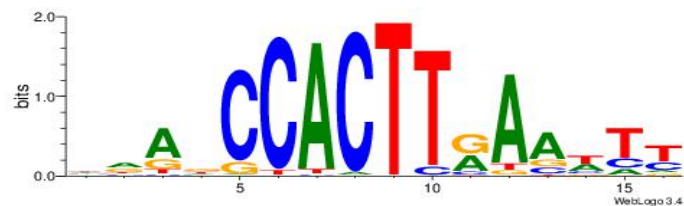
Motif ID: [UP00249](#)
Motif name: Nkx2-5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0339468

Alignment:

HDADCCACTTTRAAWTT
-----CACGTR-----

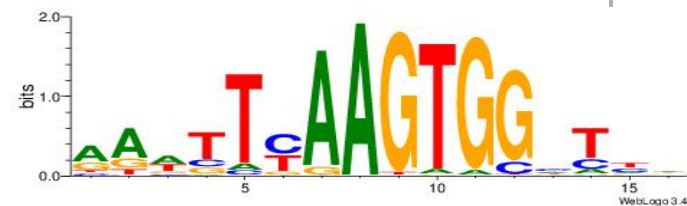
Original motif

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

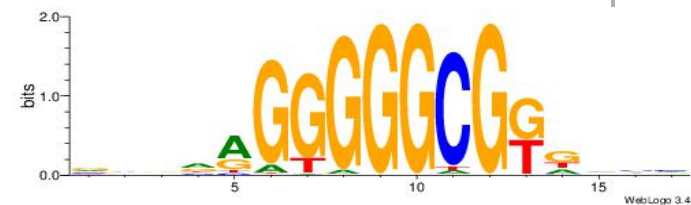
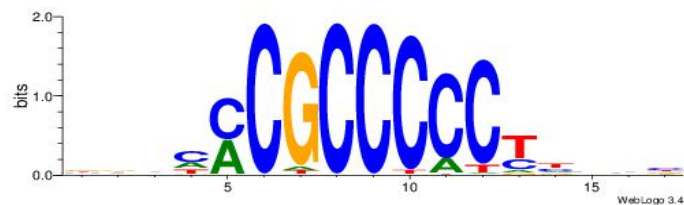
-----AGRKGGCR-----

Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

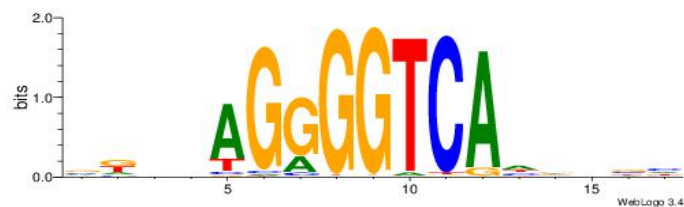


Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0154192

Alignment:
 VKBBAGGGGTCAHDBBH
 ----AGRKGCCR-----

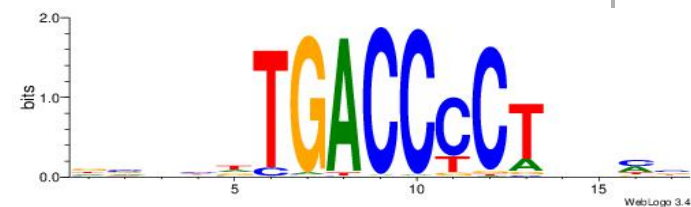
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00007](#)

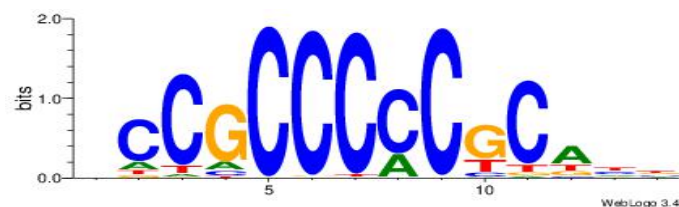
Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0160089

Alignment:

VHTGCGGGGGCGGH
 ----AGRKGCCR--

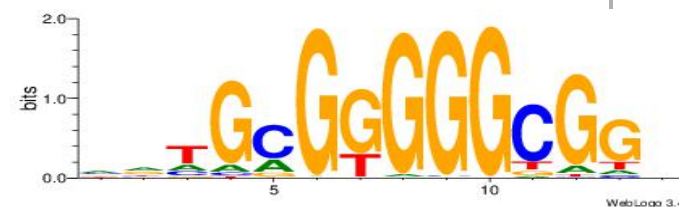
Original motif

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: Forward
 Position number: 2
 Number of overlap: 8

Similarity score: 0.0241611

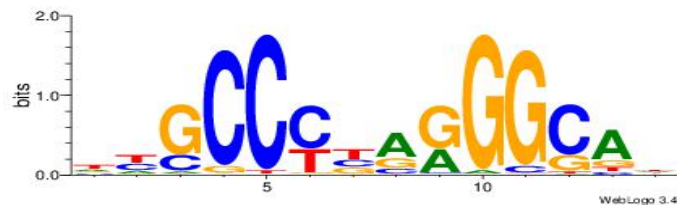
Alignment:

HTGCCMTVKGGCMD

-KGCCYKCT-----

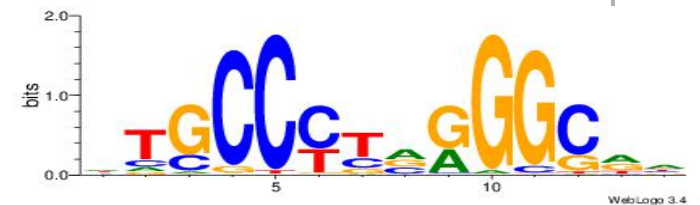
Original motif

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

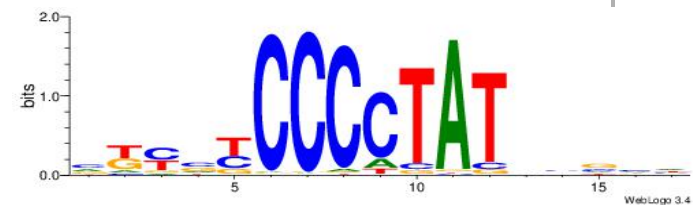
-----AGRKGCCR--

Original motif

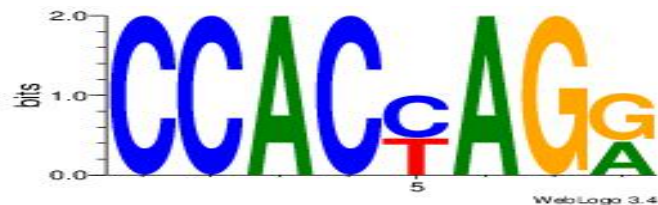
Consensus sequence: DDBVHATAGGGGRBRMB

Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



Original motif
Consensus sequence: CCACYAGR



Reverse complement motif
Consensus sequence: MCTKGTGG



Best Matches for Motif ID 48 (Highest to Lowest)

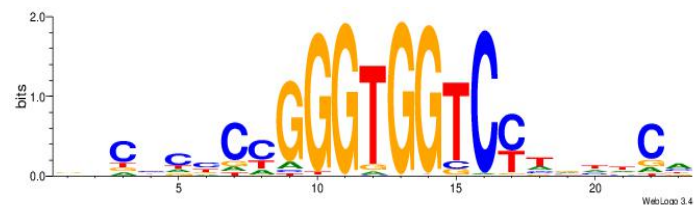
Motif ID:	UP00538
Motif name:	Gli1_v016060_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0

Alignment:

HGDHVKHGACCACCCGGBGBGDB
 -----CCACYAGR-----

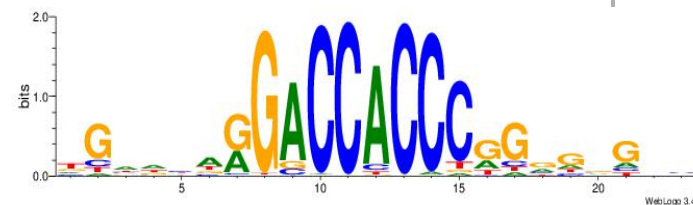
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCACCCGGBGBGDB



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:

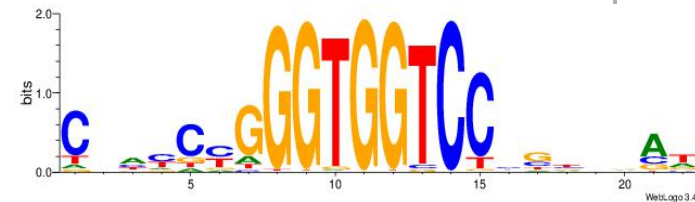
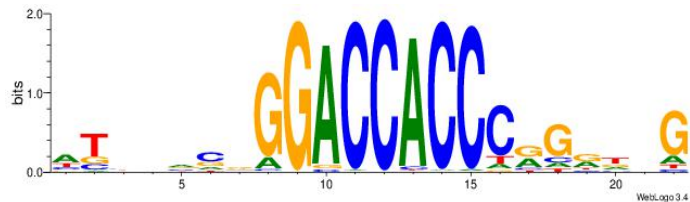
CBDMCMGGGTGGTCCHVBVBAH
 ----MCTKGTGG-----

Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG

Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH

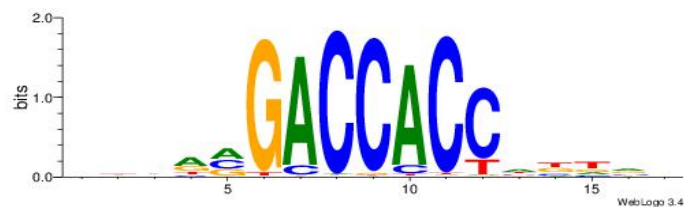


Motif ID: [UP00047](#)
 Motif name: Zbtb7b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.00261558

Alignment:
 BDDRVGACCACCHBDVB
 -----CCACYAGR--

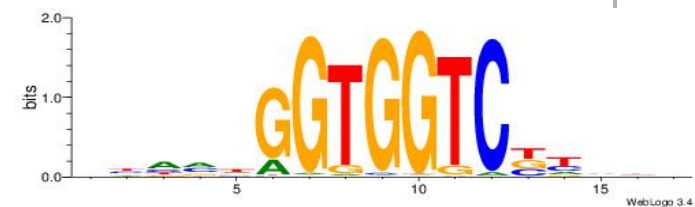
Original motif

Consensus sequence: BDDRVGACCACCHBDVB



Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



Motif ID: [UP00540](#)

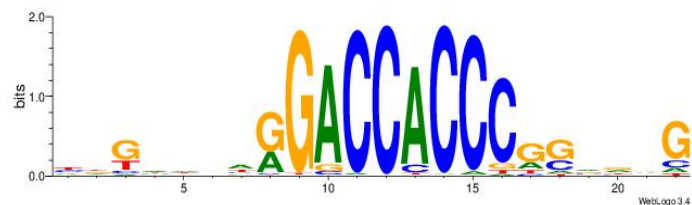
Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00296024

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 ----MCTKGTGG-----

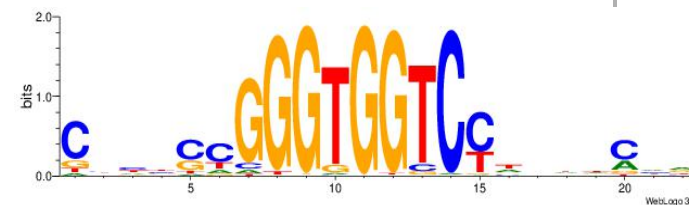
Original motif

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

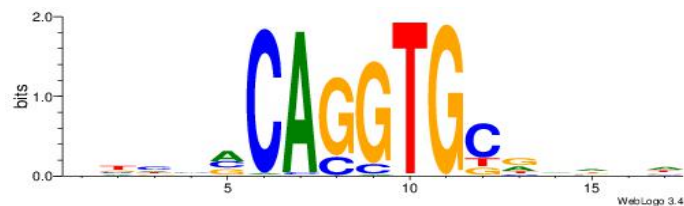
Alignment:

VBHHVCAGGTGCDVDHD

----MCTKGTGG-----

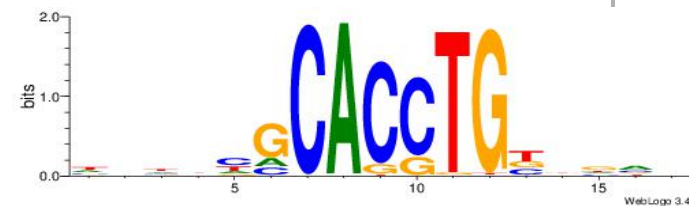
Original motif

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)

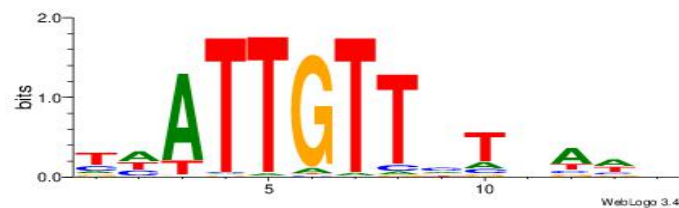
Motif ID:	UP00101
Motif name:	Sox12_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif

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

Alignment:
 DWTHAVAACAATHA
 -----ARAACA-----

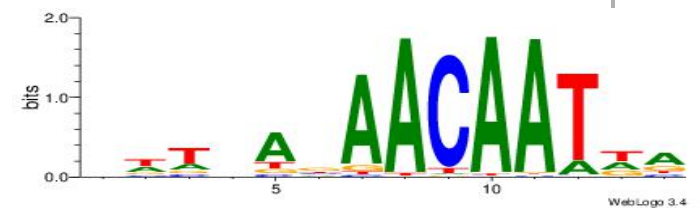
Original motif

Consensus sequence: THATTGTTVTHAWH



Reverse complement motif

Consensus sequence: DWTHAVAACAATHA



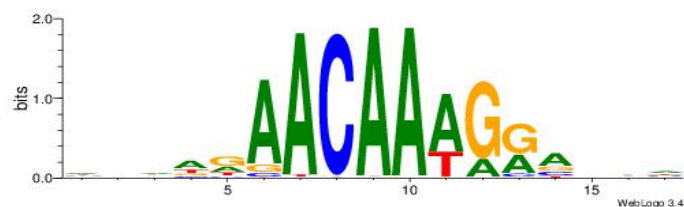
Motif ID:	UP00030
Motif name:	Sox11_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	6
Similarity score:	0.000395587

Alignment:

HBDDRAACAAAGRABHH
---ARAACA-----

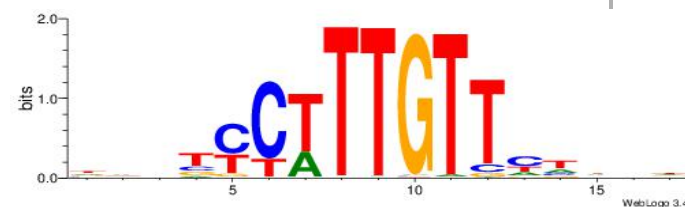
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID:	UP00062
Motif name:	Sox4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	6
Similarity score:	0.00357565

Alignment:

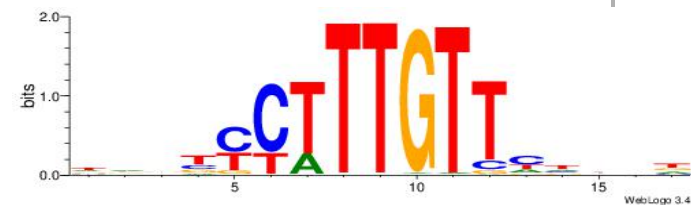
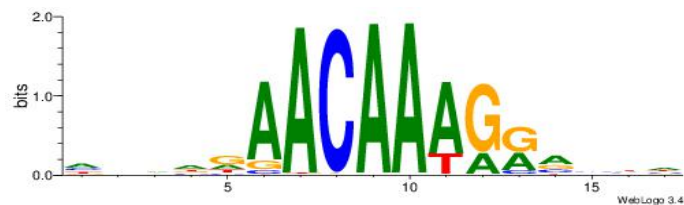
HHBBMCTTTGTTTHDDBH
-----TGTMT---

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH

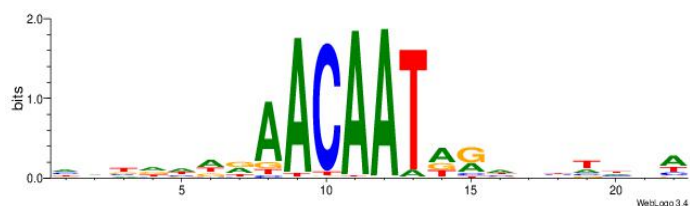


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00753019

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

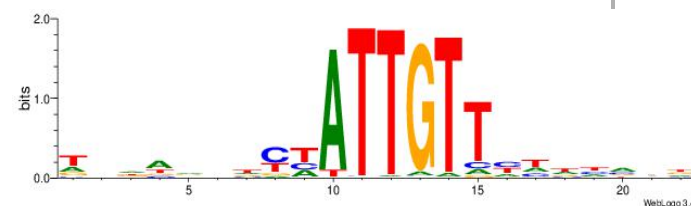
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00039](#)

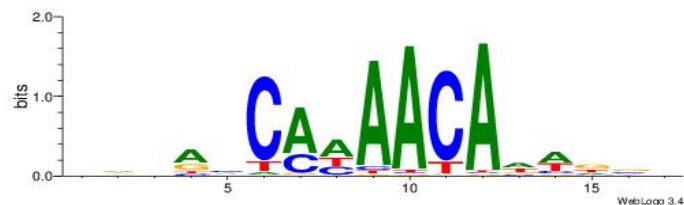
Motif name: Foxj3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0083324

Alignment:

DVHWDTGTTWTGDTBDH
 -----TGTMT-----

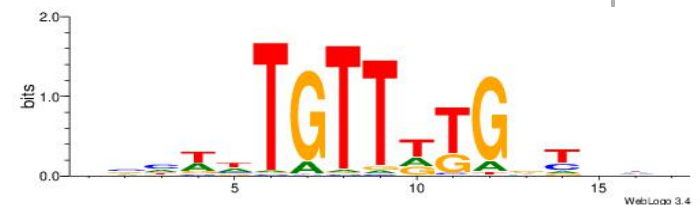
Original motif

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)

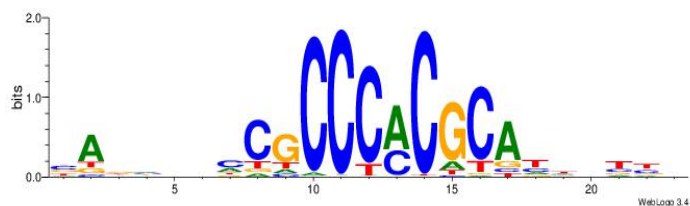
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0

Alignment:

VVVDHHTGCGYGGGCGDHHVHHTB
 -----YGCGTG-----

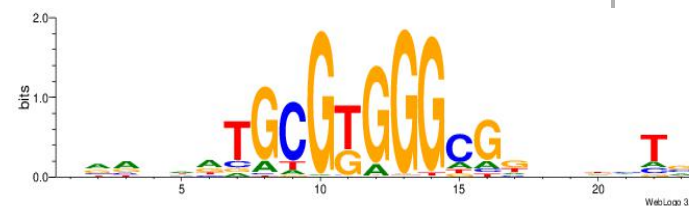
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



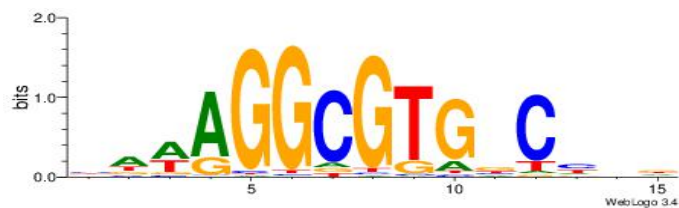
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

Alignment:

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

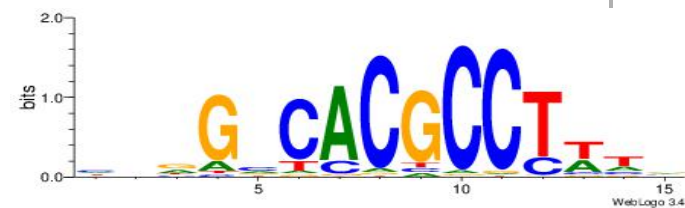
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



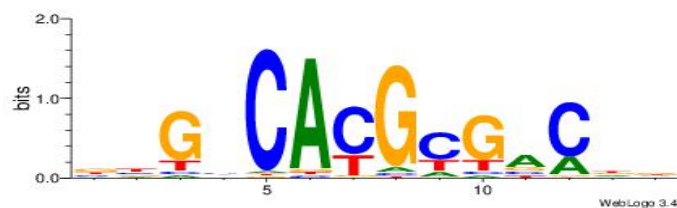
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

Number of overlap: 6
Similarity score: 0.00348048

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

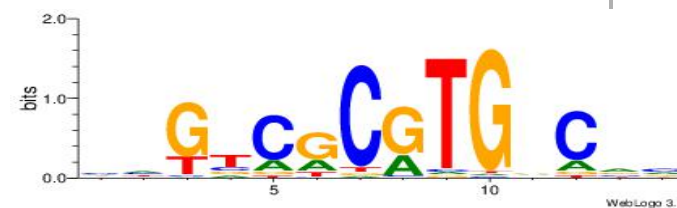
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



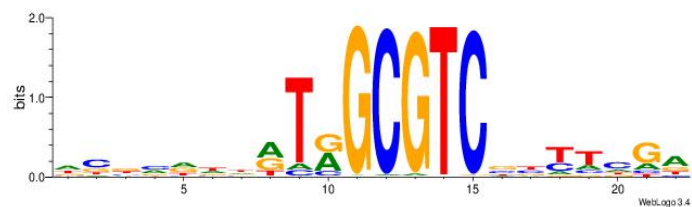
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 6
Similarity score: 0.00526158

Alignment:
TCDAMVBGACGCMACDDDDVBBD
-----CACGCM-----

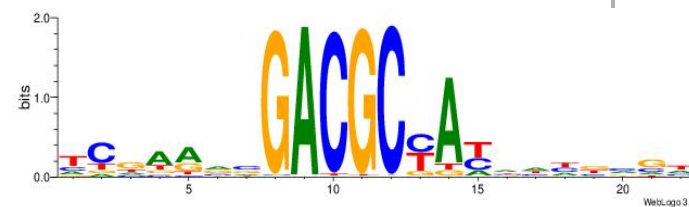
Original motif

Reverse complement motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Consensus sequence: TCDAMVBGACGCGMAKDDDVBBDD



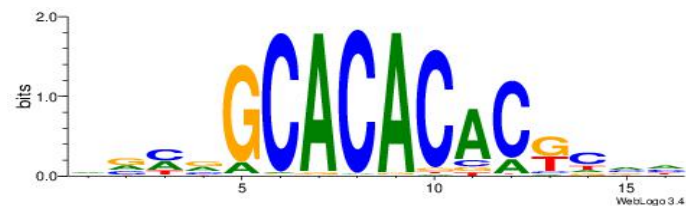
Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.00558171

Alignment:

HBGYGTGTGTGCVRVD
---YGCGTG-----

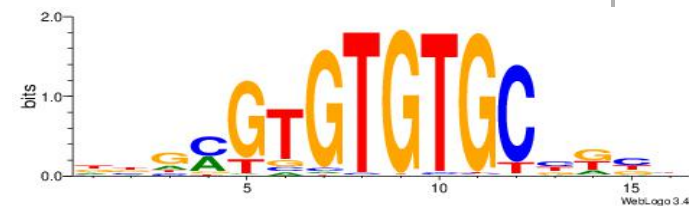
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



Dataset #: 3 **Motif ID: 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: Backward
Position number: 7
Number of overlap: 6
Similarity score: 0

Alignment:

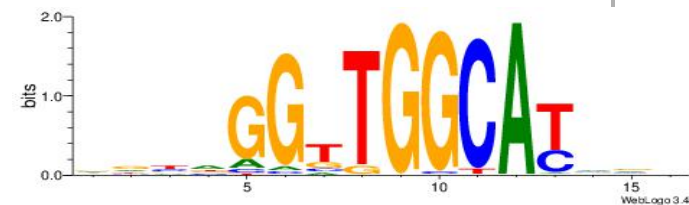
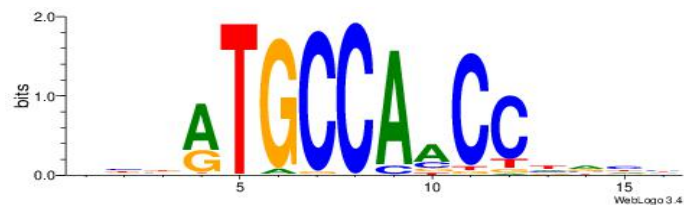
```
DBBATGCCAACCHVHH  
-----DGCCAA-----
```

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

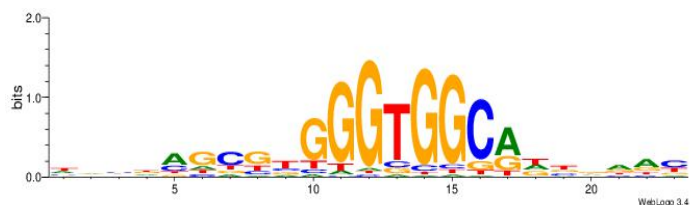


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 12
 Number of overlap: 6
 Similarity score: 0.0174701

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

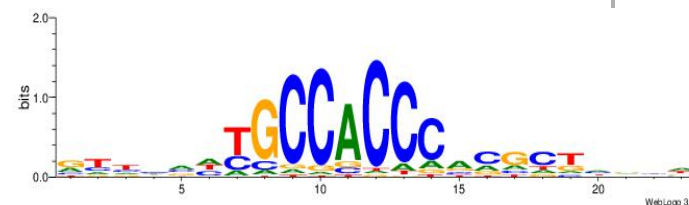
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00003](#)

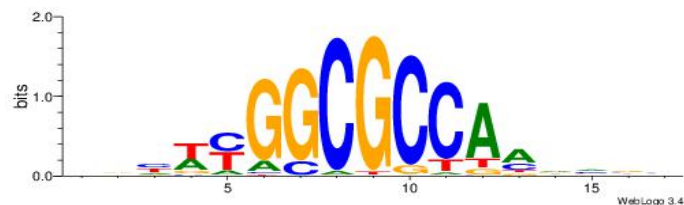
Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0231918

Alignment:

BBBDYTGGCGCKWDBD
 ----TTGGCD-----

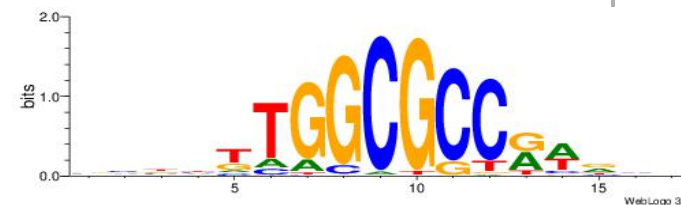
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



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

Similarity score: 0.0258343

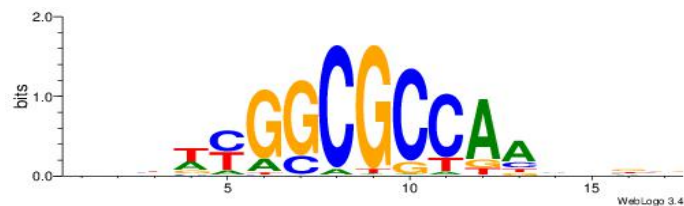
Alignment:

BBBDTTGGCGCCKWVVD

----TTGGCD-----

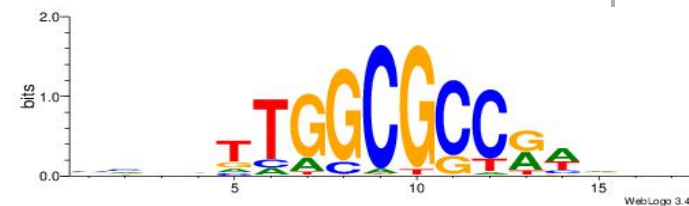
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD



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:

HDGTCGCGTGDCVB

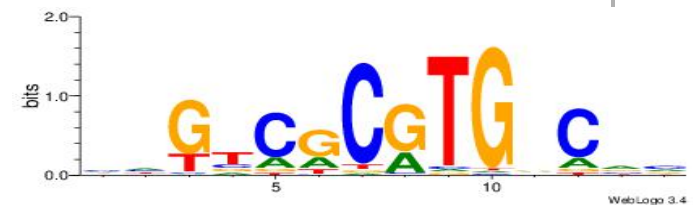
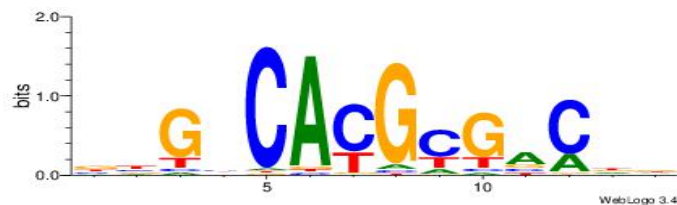
-----TTGGCD-

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



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)

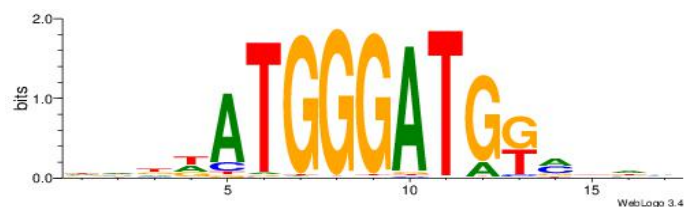
Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	6
Similarity score:	0

Alignment:

DVDDATGGGATGKMDDV
-----BATGGM----

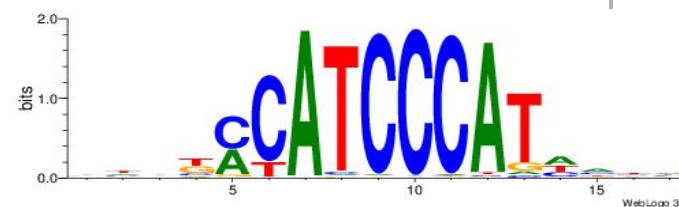
Original motif

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:

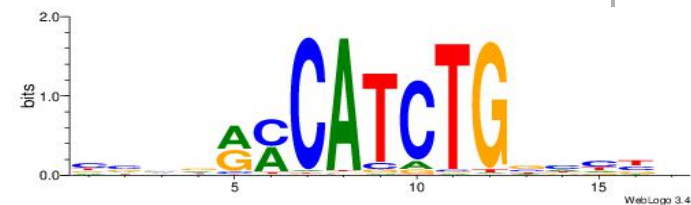
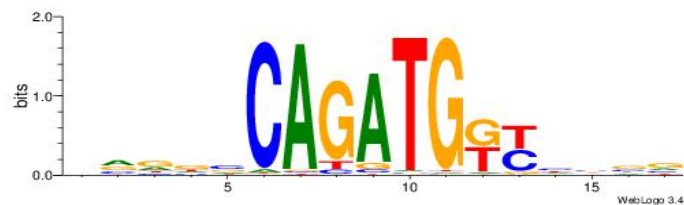
HVDDVCAGATGKYHBBV
-----BATGGM----

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHHBH

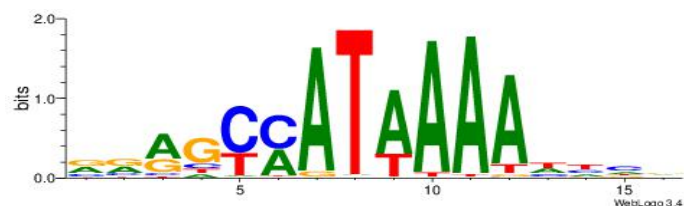


Motif ID: [UP00207](#)
 Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.0208704

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

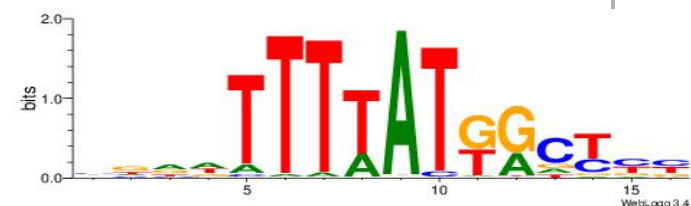
Original motif

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:	Backward
Position number:	2
Number of overlap:	6
Similarity score:	0.023319

Alignment:

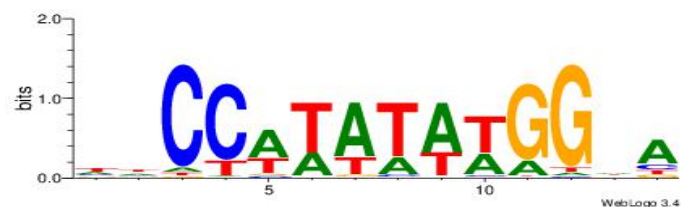
```

HHCCWTATAWGGHA
-----BATGGM-

```

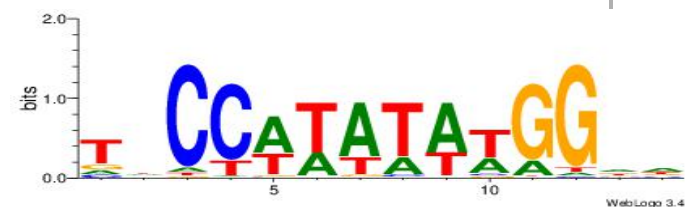
Original motif

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

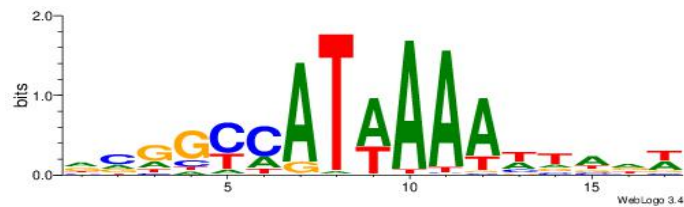
Alignment:

DCGGYCATWAAAWTADW

---RCCATB-----

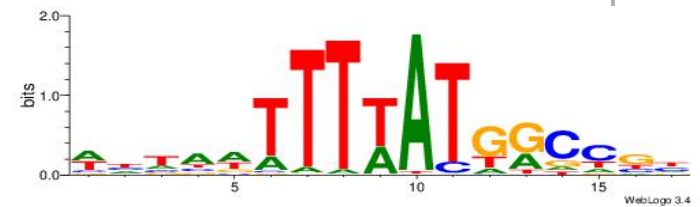
Original motif

Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



Results created by MOTIFSIM on 11-19-2016 22:45:25

Runtime: 1028.98 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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