



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	2
Number of top significant motifs:	10
Number of best matches:	10
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
MEME-ChIP_DM721.txt	11	1
PScanChIP_DM721.txt	37	2

RESULTS

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

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

Original motif

Consensus sequence: RGGGAAR



Reverse complement motif

Consensus sequence: MTTCCCK



Best Matches for Motif ID 1 (Highest to Lowest)

Motif ID:	UP00090
Motif name:	Elf3_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

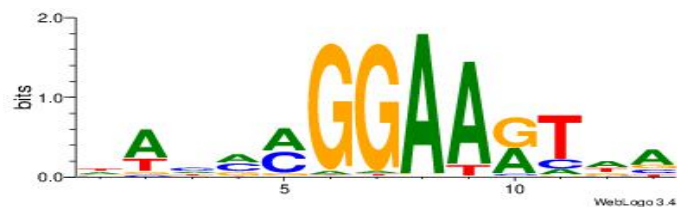
Alignment:

TDAMTTCCYYDTD

---MTTCCK----

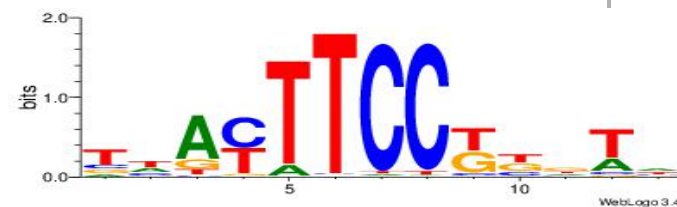
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



Motif ID: [UP00085](#)
Motif name: Sfpi1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.00351709

Alignment:

HDACTTCCBCWTDV

---MTTCK-----

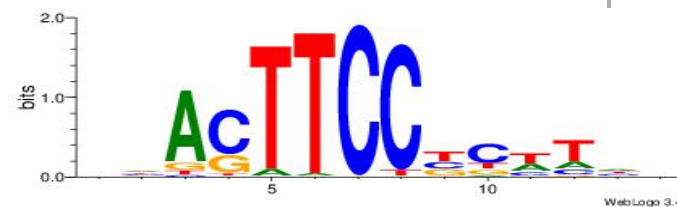
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



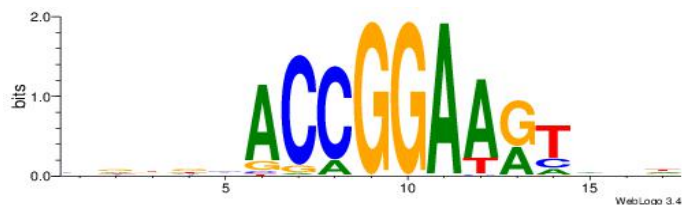
Motif ID: [UP00414](#)
 Motif name: Ets1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00356242

Alignment:

DDBAMTTCCGGTDHDB
 ----MTTCK-----

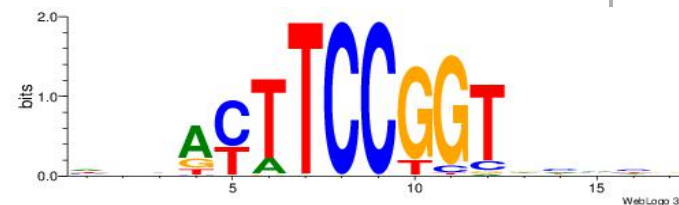
Original motif

Consensus sequence: BDDDHACCGGAARTVDD



Reverse complement motif

Consensus sequence: DDBAMTTCCGGTDHDB



Motif ID: [UP00409](#)
 Motif name: Elf5
 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: 0.00439981

Alignment:

BWAHSMGGAAGTWD
-----RGAAR---

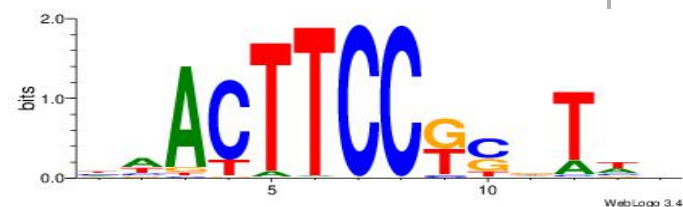
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



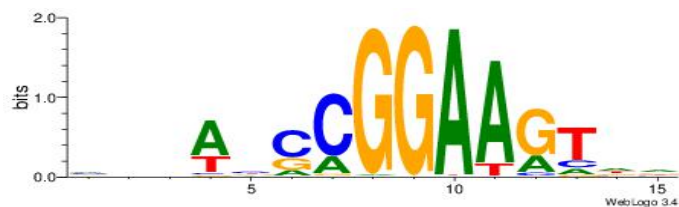
Motif ID: [UP00015](#)
Motif name: Ehf_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 6
Similarity score: 0.00655644

Alignment:

DDACTTCCGGBTHBB
---MTTCK-----

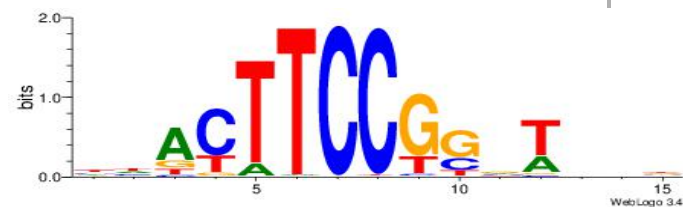
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



Motif ID: [UP00013](#)
Motif name: Gabpa_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.00663687

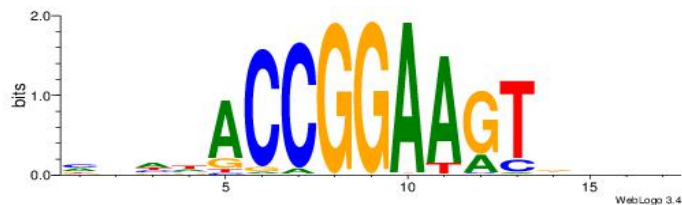
Alignment:

BHHHACTTCGGTHHBD

-----MTTCCK-----

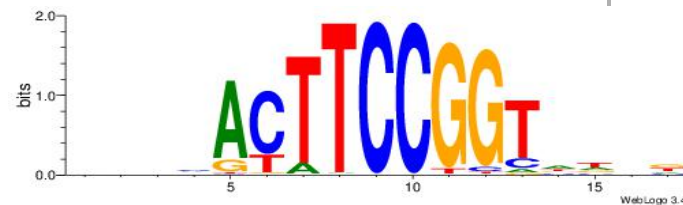
Original motif

Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif

Consensus sequence: BHHHACTTCGGTHHBD



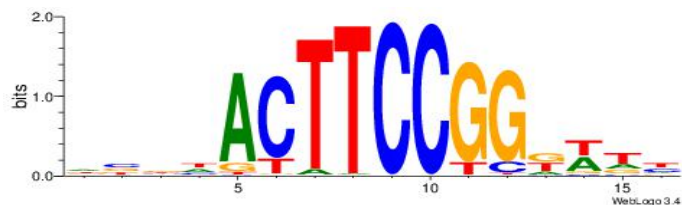
Motif ID: [UP00413](#)
Motif name: Elf4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.00896416

Alignment:

DBBHACTTCCGGKWTH
-----MTTCK-----

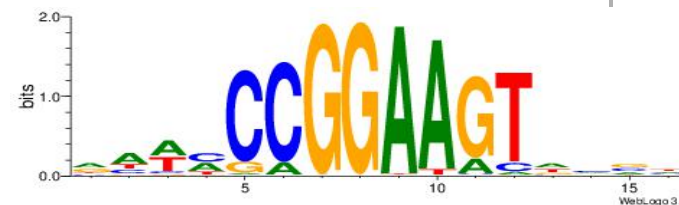
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



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: 4
Number of overlap: 6
Similarity score: 0.00975526

Alignment:

VAAAGMGAAGTWD
-----RGAAR---

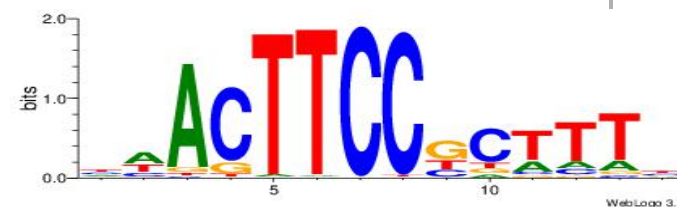
Original motif

Consensus sequence: VAAAGMGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCRCCTTTB



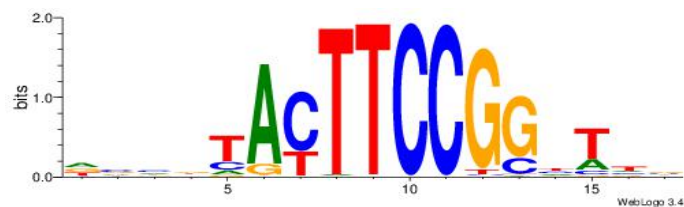
Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0103447

Alignment:

DVHBTACTTCCGGHTHB
-----MTTCCK-----

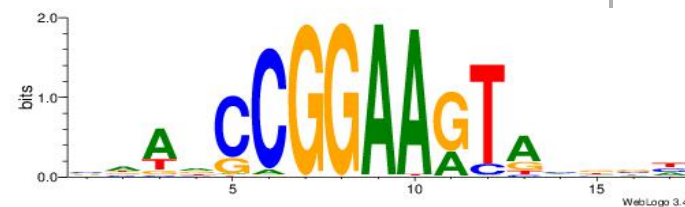
Original motif

Consensus sequence: DVHBTACTTCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Motif ID:

[UP00404](#)

Motif name:

Elf2

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:

6

Similarity score:

0.010491

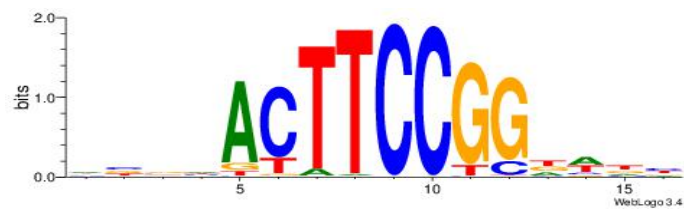
Alignment:

DBBHACTTCCGGDWDB

-----MTTCCK-----

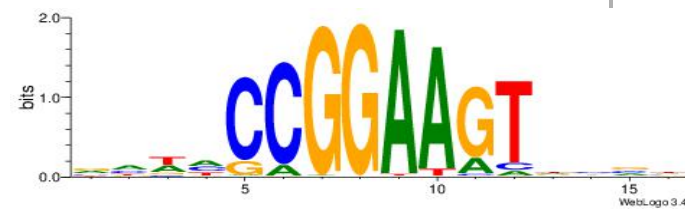
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Dataset #: 1 **Motif ID: 2** **Motif name: Motif 2**

Original motif

Consensus sequence: AMACA



Reverse complement motif

Consensus sequence: TGTRT



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:	7
Number of overlap:	5
Similarity score:	0

Alignment:

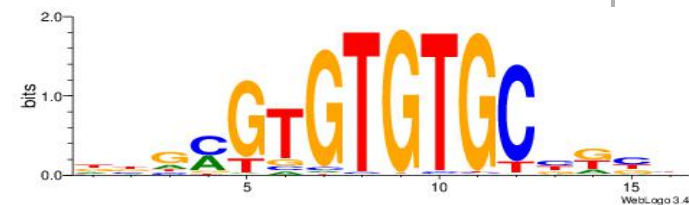
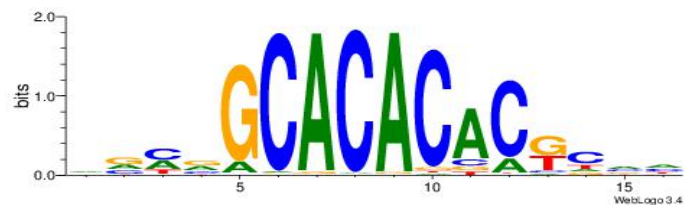
```
DVMVGCACACACKCVH
-----AMACA-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

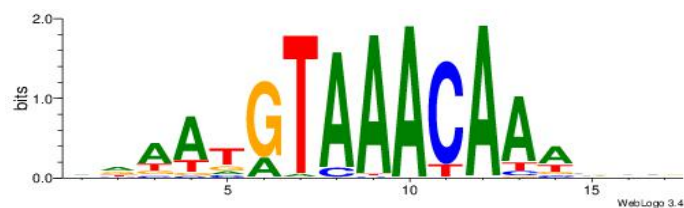


Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00605402

Alignment:
 DDAATGTAAACAAVVB
 -----AMACA-----

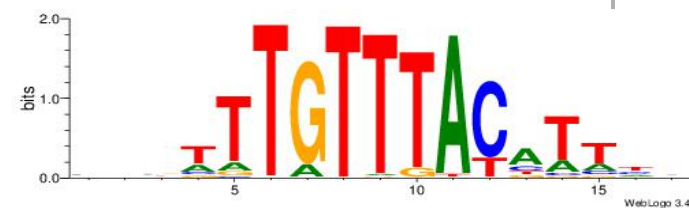
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00041](#)

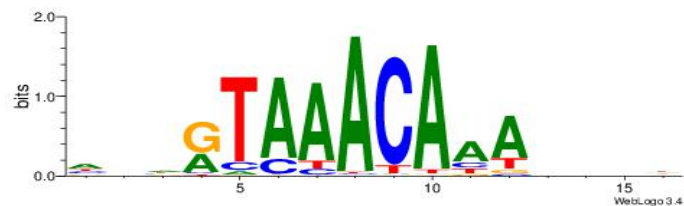
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.00753267

Alignment:

HDHRTAAACAAHDDD
 -----AMACA-----

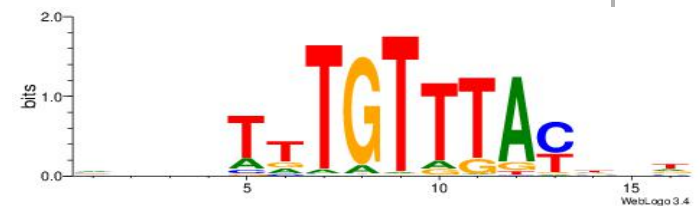
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 5

Similarity score: 0.00965634

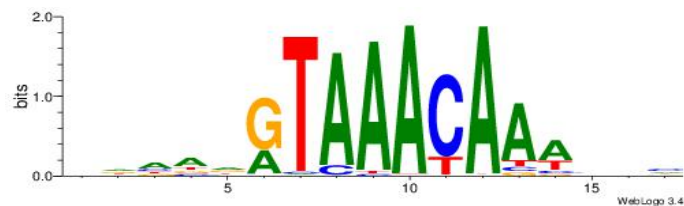
Alignment:

HDHADGTAAACAAVVH

-----AMACA-----

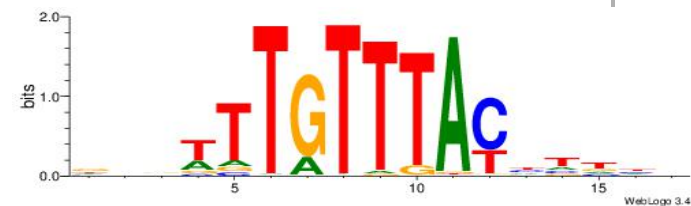
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



Motif ID: [UP00061](#)
Motif name: Foxl1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 5
Similarity score: 0.00989492

Alignment:

DWAATRTAAACAAWVVB

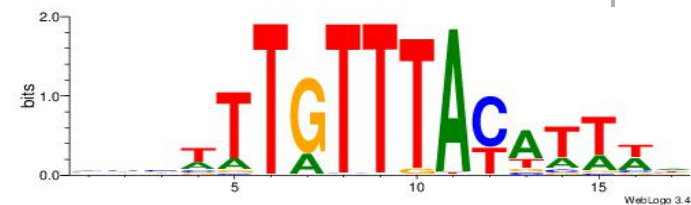
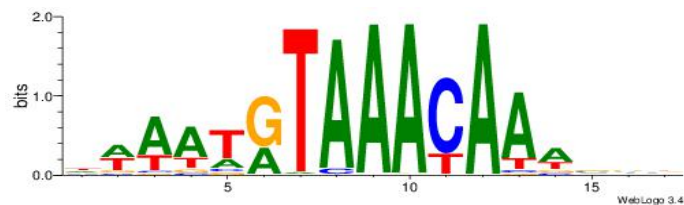
-----AMACA-----

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



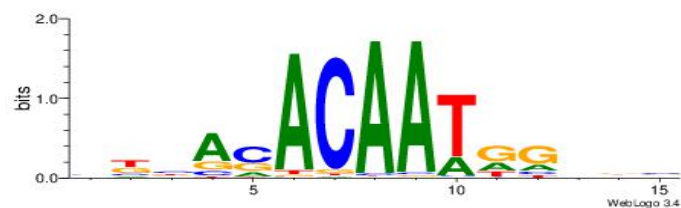
Motif ID: [UP000004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 5
 Similarity score: 0.0116453

Alignment:

BBDCMATTGTSTBRB
 -----TGTRT---

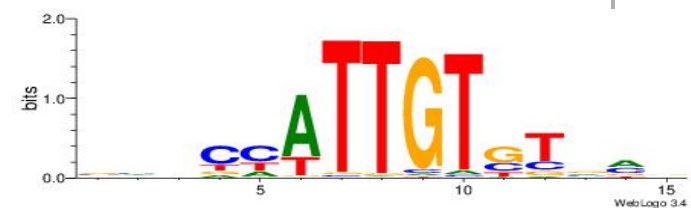
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



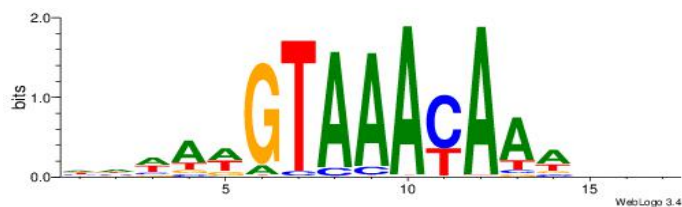
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.0143122

Alignment:

HHWAWGTAAAYAAVDB
 -----AMACA-----

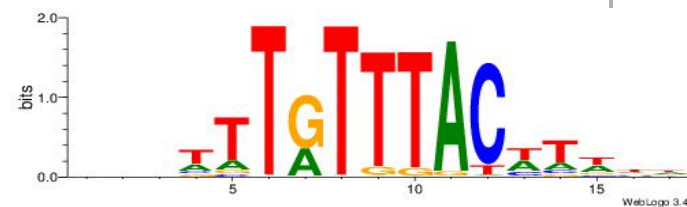
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



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: Forward
 Position number: 6

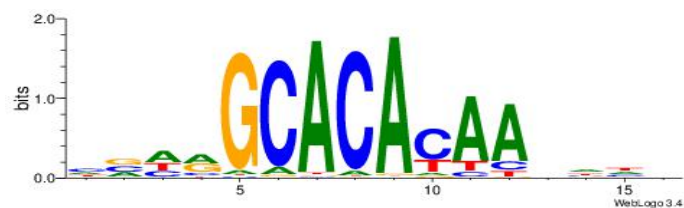
Number of overlap: 5
Similarity score: 0.0153228

Alignment:

BHHHTTGTGTGCKHVD
-----TGTRT-----

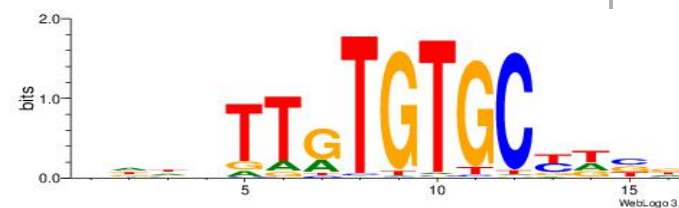
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



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: 8
Number of overlap: 5
Similarity score: 0.024195

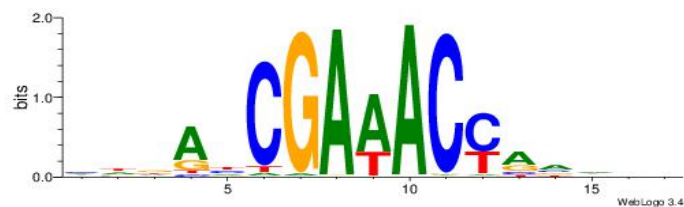
Alignment:

DHDBTKGTTTCGHTHDD
-----TGTRT-----

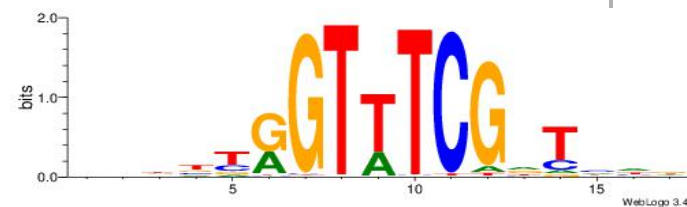
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD



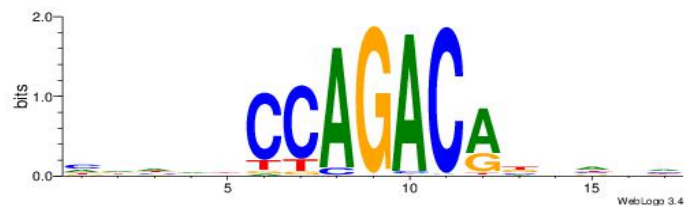
Motif ID: [UP00000](#)
Motif name: Smad3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 5
Similarity score: 0.0255974

Alignment:

HDHDDCCAGACABBHVH
-----AMACA-----

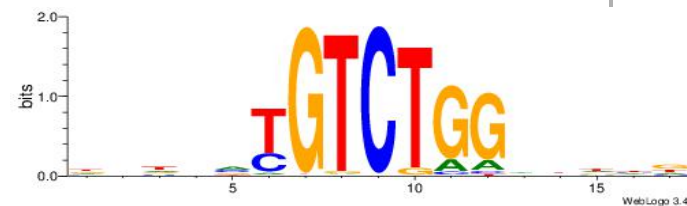
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



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

Original motif

Consensus sequence: AGSCWGG



Reverse complement motif

Consensus sequence: CCWGSCT



Best Matches for Motif ID 3 (Highest to Lowest)

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:	7
Number of overlap:	7
Similarity score:	0

Alignment:

DDBHGGTTGGCATVBD

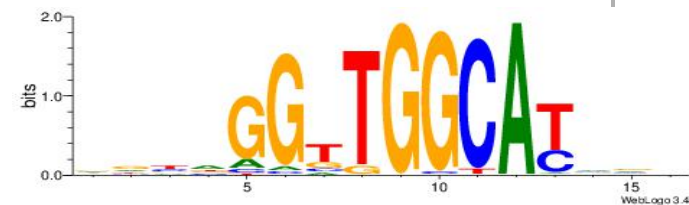
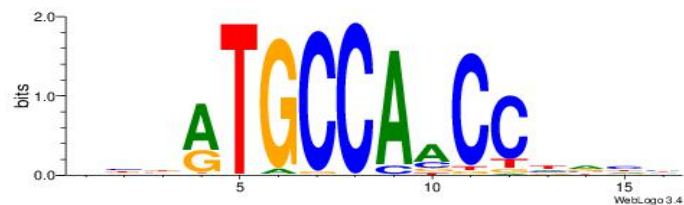
---AGSCWGG-----

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

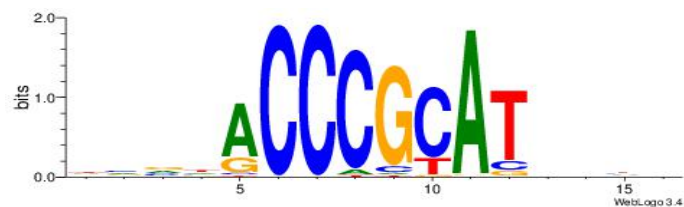


Motif ID: [UP00070](#)
 Motif name: Gcm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00560414

Alignment:
 DHDVATGCGGGTHVVH
 ----AGSCWGG-----

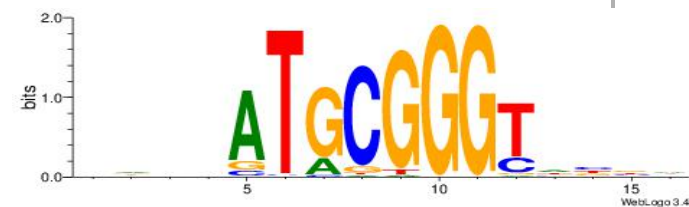
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



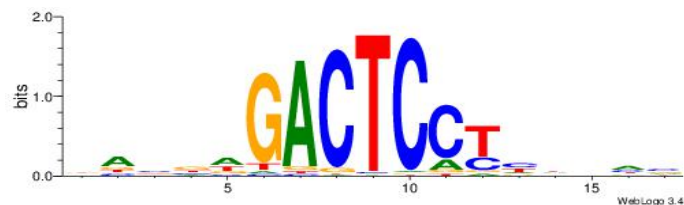
Motif ID: [UP00095](#)

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: 7
 Similarity score: 0.0109149

Alignment:
 DABBWGACTCCTHDVHV
 --CCWGSCT-----

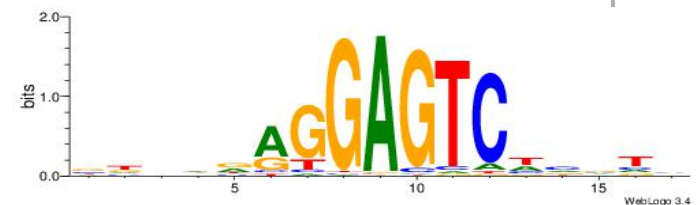
Original motif

Consensus sequence: DABBWGACTCCTHDVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



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: Backward
 Position number: 7
 Number of overlap: 7

Similarity score: 0.0109242

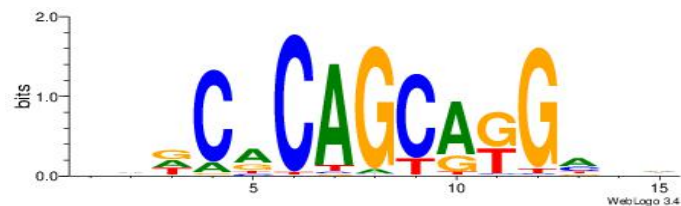
Alignment:

DVHCYTGCTGTGHDH

--CCWGSCT-----

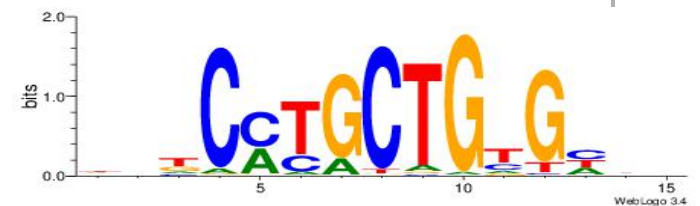
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP00000](#)
Motif name: Smad3_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: 7
Similarity score: 0.0114503

Alignment:

HDHDDCCAGACABBHVH

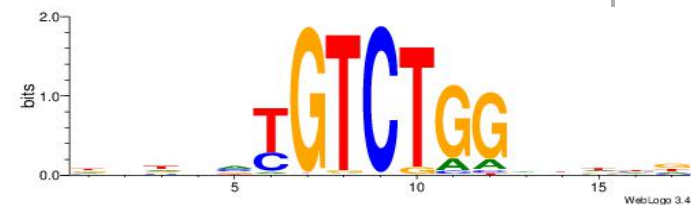
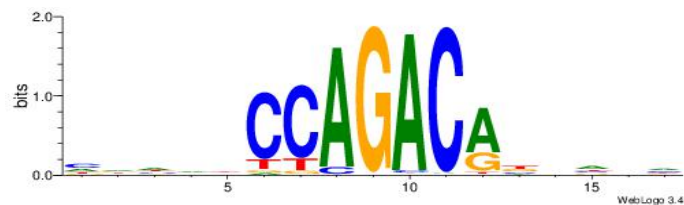
-----CCWGSCT-----

Original motif

Consensus sequence: HDHDDCCAGACABBHVH

Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD

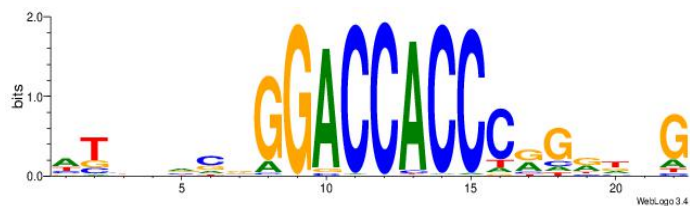


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0115258

Alignment:
 CBDMCMGGGTGGTCCHVBVAH
 -----AGSCWGG-----

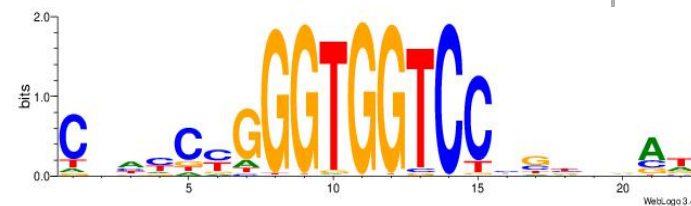
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVAH



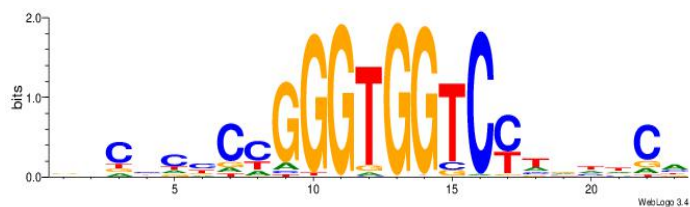
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 7
 Similarity score: 0.0117486

Alignment:

HGDHVKHGACCAACCGGBGBGDB
 -----CCWGSCT-----

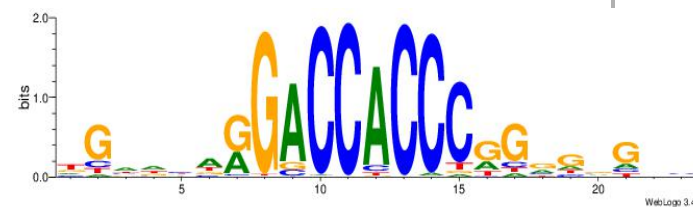
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCAACCGGBGBGDB

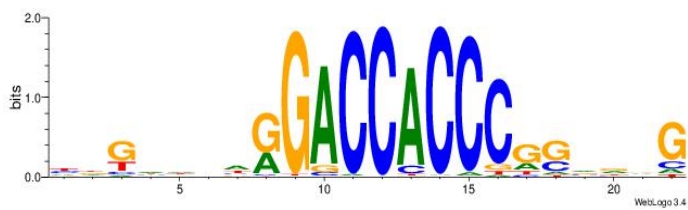


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

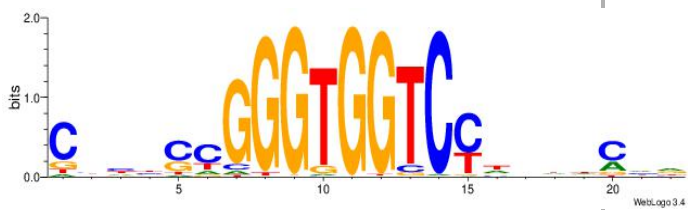
Number of overlap: 7
Similarity score: 0.0131676

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
-----AGSCWGG-----

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH

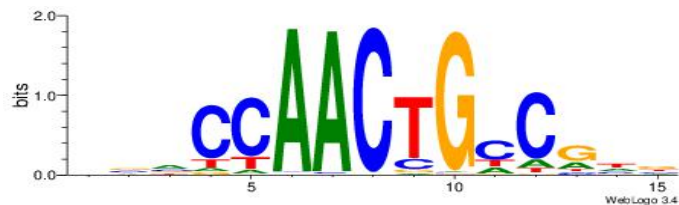


Motif ID: [UP00081](#)
Motif name: Mybl1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 7
Similarity score: 0.0136026

Alignment:
BHCGGCAGTTGGBBB
--AGSCWGG-----

Original motif
Reverse complement motif

Consensus sequence: BBVCCAAC TGCCGHB



Consensus sequence: BHCGGCAGTTGGBBB



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: 7
Number of overlap: 7
Similarity score: 0.0139558

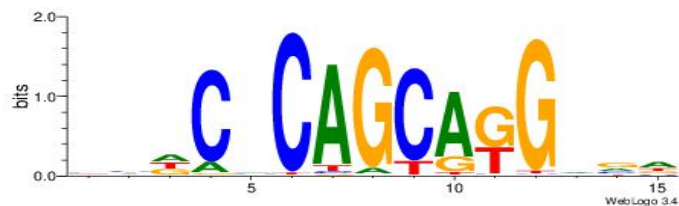
Alignment:

DVBCYTGCTGBGDDD

--CCWGSCT-----

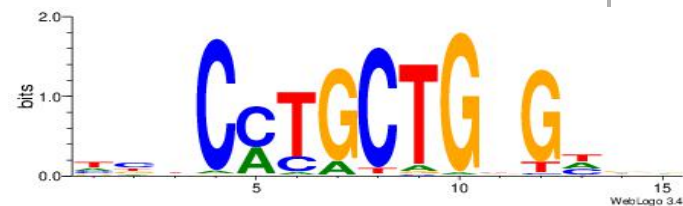
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



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

Original motif

Consensus sequence: CTCTGY



Reverse complement motif

Consensus sequence: KCAGAG



Best Matches for Motif ID 4 (Highest to Lowest)

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:	Forward
Position number:	7
Number of overlap:	6
Similarity score:	0

Alignment:

BBBAVTGCAGTGBBVDD

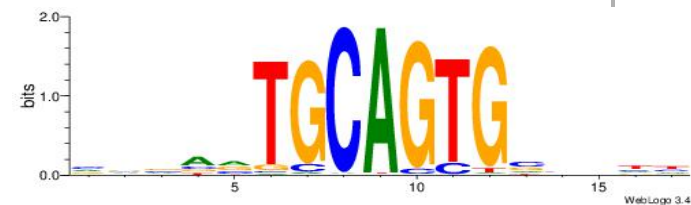
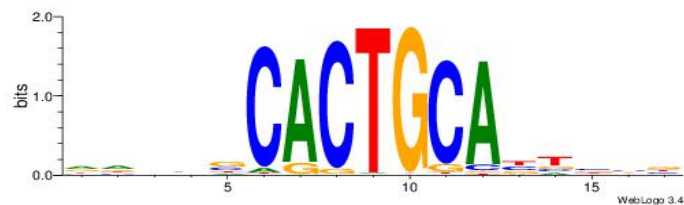
-----KCAGAG-----

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

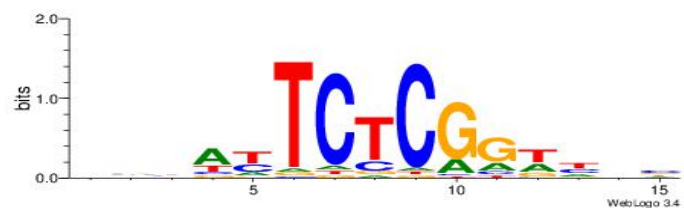


Motif ID: [UP00018](#)
 Motif name: Irf4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.00610915

Alignment:
 BHHWCCGAGAMTVVB
 ---KCAGAG-----

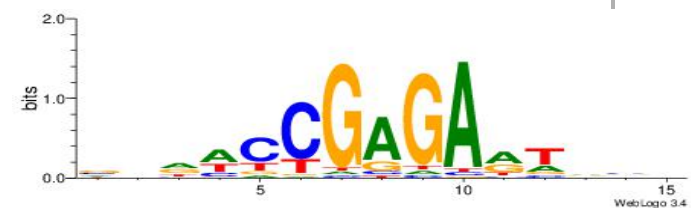
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [UP00095](#)

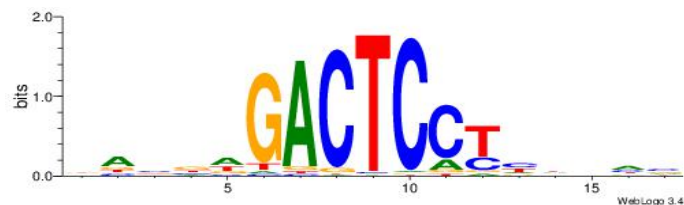
Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00648219

Alignment:

VHBDDAGGAGTCWBBTD
 ----KCAGAG-----

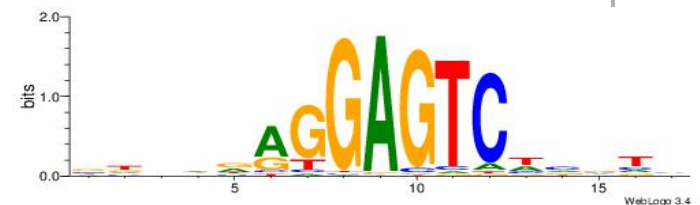
Original motif

Consensus sequence: DABBWGACTCCTHDTVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



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: 3
 Number of overlap: 6

Similarity score: 0.00853125

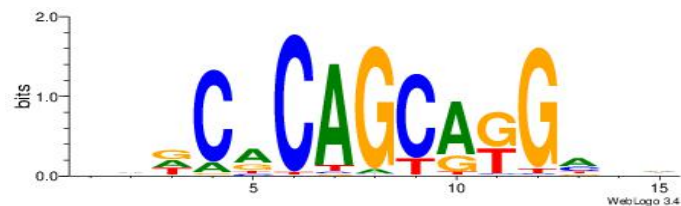
Alignment:

DVHCYTGCTGTGHDH

-----CTCTGY--

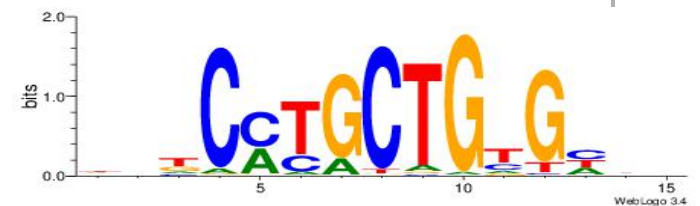
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



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: 10

Number of overlap: 6

Similarity score: 0.00895004

Alignment:

BHHDTCCTCACTCBDBV

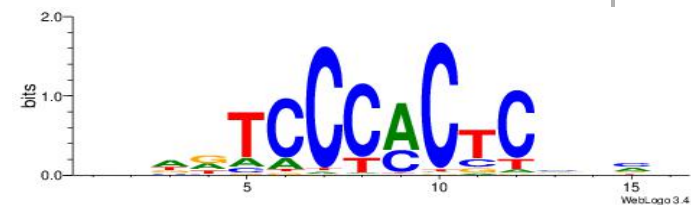
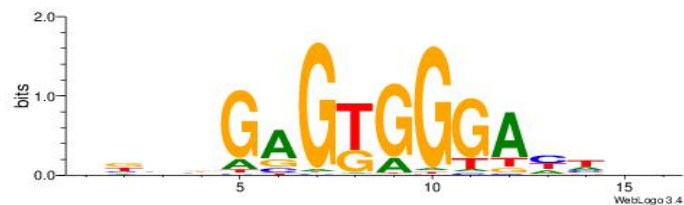
-----CTCTGY--

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

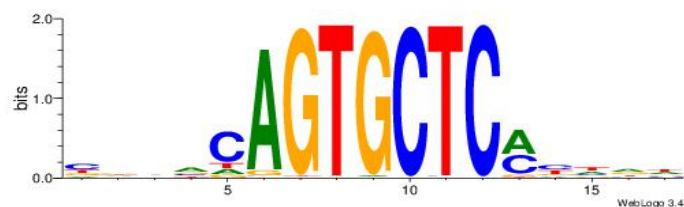
Consensus sequence: BHHDTCCTCACTCBDBV



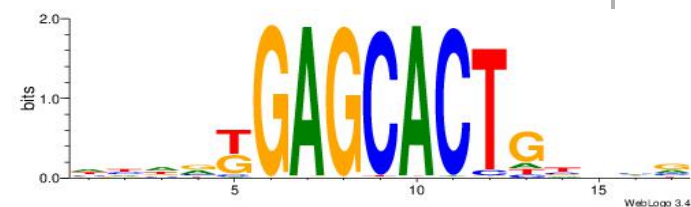
Motif ID: [UP00095](#)
 Motif name: Zfp691_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00955889

Alignment:
 DDHBYGAGCACTGBHHB
 -----CTCTGY---

Original motif
 Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif
 Consensus sequence: DDHBYGAGCACTGBHHB



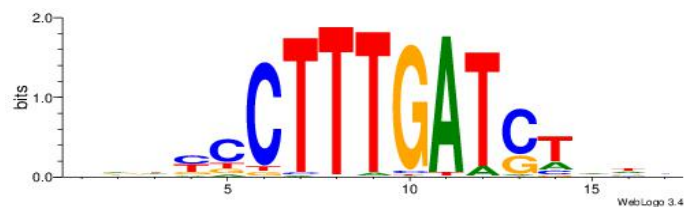
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0106184

Alignment:

VDDAGATCAAAGGKDDD
 -----KCAGAG-----

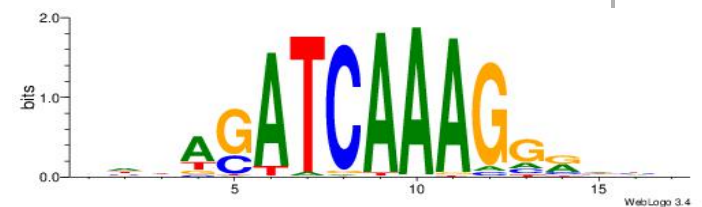
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



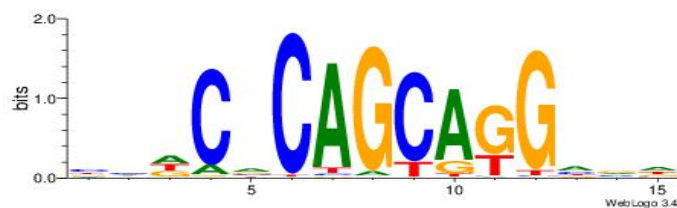
Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8

Number of overlap: 6
Similarity score: 0.0122635

Alignment:
BHDCVCAGCAGGHVD
--KCAGAG-----

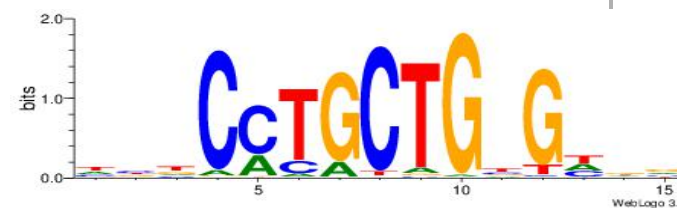
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



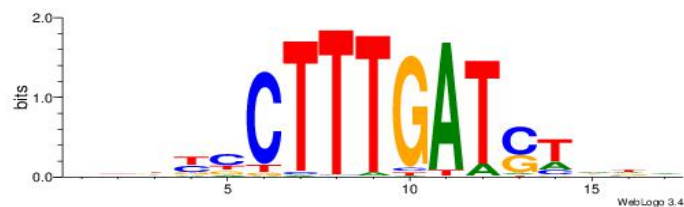
Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0131237

Alignment:
BDDASATCAAAGMDDD
-----KCAGAG-----

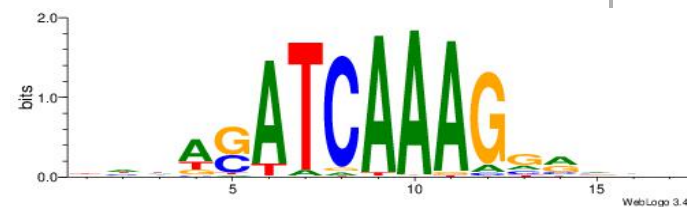
Original motif

Reverse complement motif

Consensus sequence: DDDYCCTTTGATSTDDV



Consensus sequence: BDDASATCAAAGGMDDD



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: 3
Number of overlap: 6
Similarity score: 0.0136526

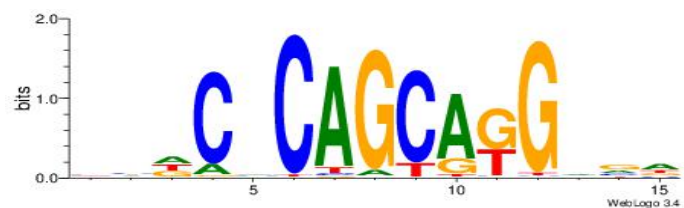
Alignment:

HHDCVCAGCAKGVVD

--KCAGAG-----

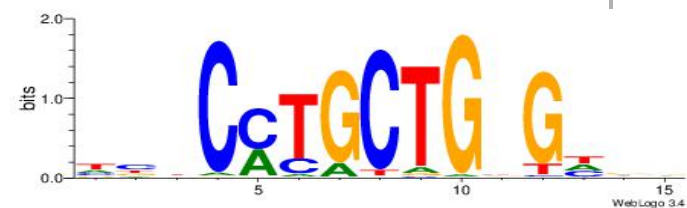
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



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

Original motif

Consensus sequence: ATKTM



Reverse complement motif

Consensus sequence: RARAT



Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID:	UP00080
Motif name:	Gata5_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	5
Similarity score:	0

Alignment:

VVBHRAGATATCWDHBB

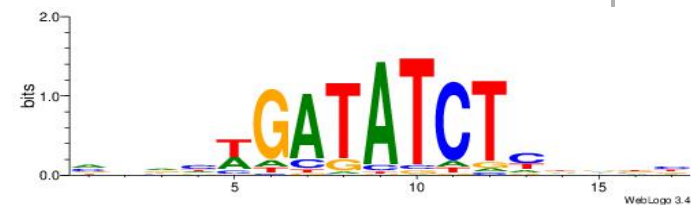
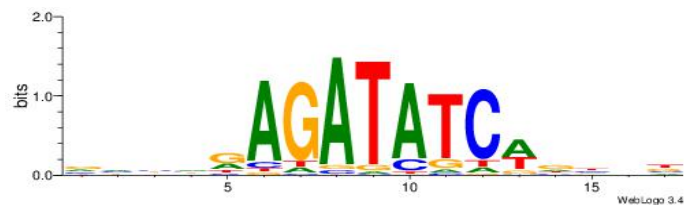
-----RARAT-----

Original motif

Consensus sequence: VVBHRAGATATCWDHBB

Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV

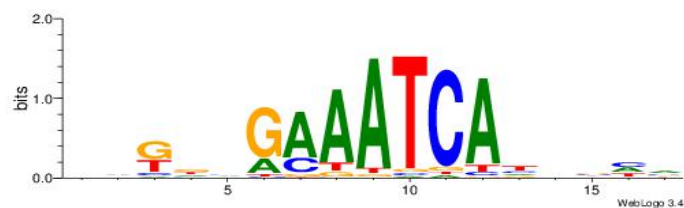


Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00279496

Alignment:
 DDKDHGAAATCAHHBH
 -----RARAT-----

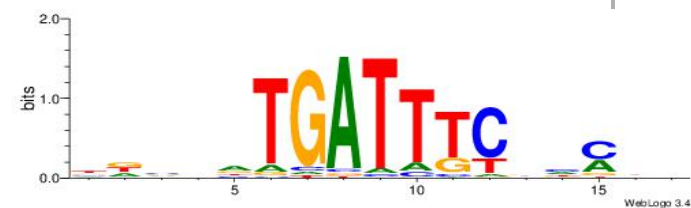
Original motif

Consensus sequence: DDKDHGAAATCAHHBH



Reverse complement motif

Consensus sequence: BDBDHTGATTTCDDHYD



Motif ID: [UP00032](#)

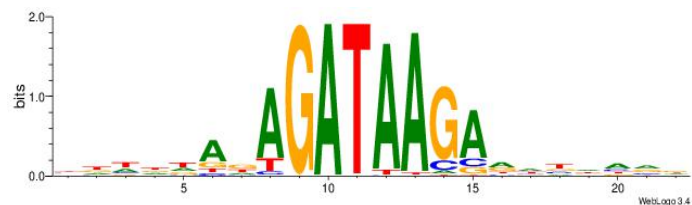
Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.00967655

Alignment:

BDHDDADAGATAAGADHBDHVD
 -----RARAT-----

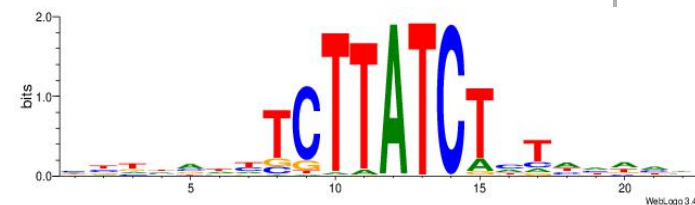
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHVD



Motif ID: [UP00250](#)
 Motif name: Irx5
 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: 5

Similarity score: 0.0116566

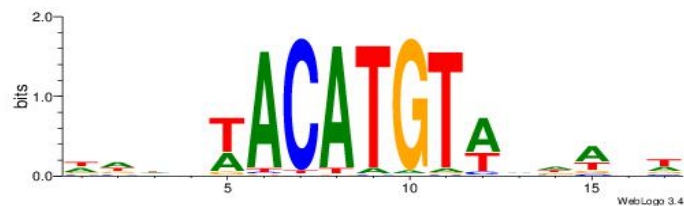
Alignment:

DDDHWACATGTWHDABW

-----ATKTM-----

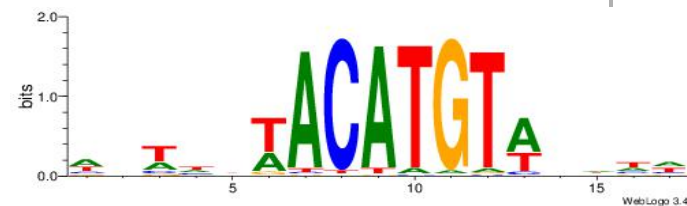
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDPWACATGTWHD



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: 5
Similarity score: 0.0120196

Alignment:

WDDDTACATGTADDWBW

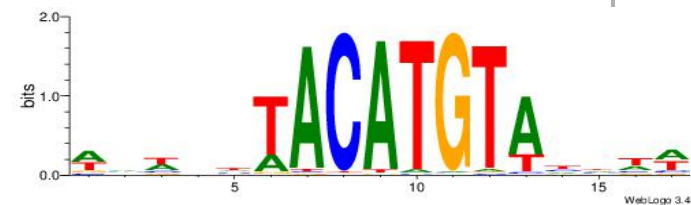
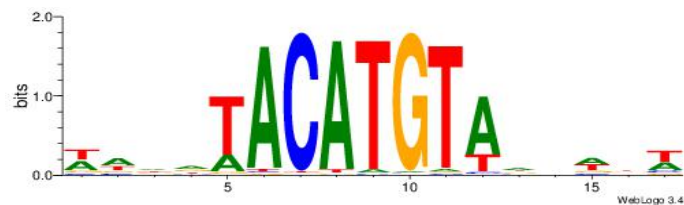
-----ATKTM-----

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WVWDDTACATGTADDW

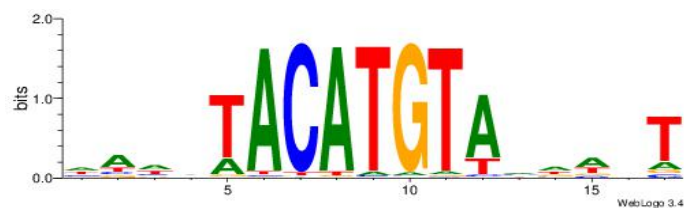


Motif ID: [UP00150](#)
 Motif name: Irx6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.0120601

Alignment:
 HAHDTACATGTAVDWHT
 -----ATKTM-----

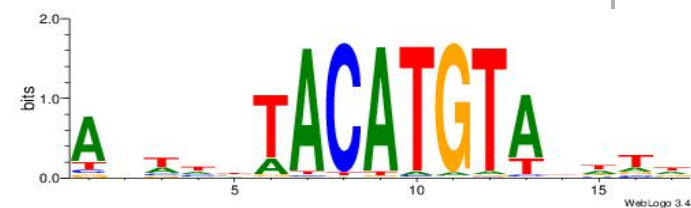
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



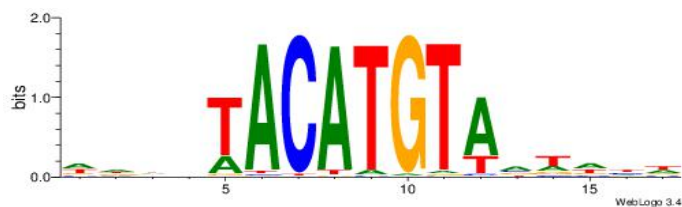
Motif ID: [UP00223](#)
 Motif name: Irx3_2226.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.0124884

Alignment:

DDDHTACATGTAVWDHD
 -----ATKTM-----

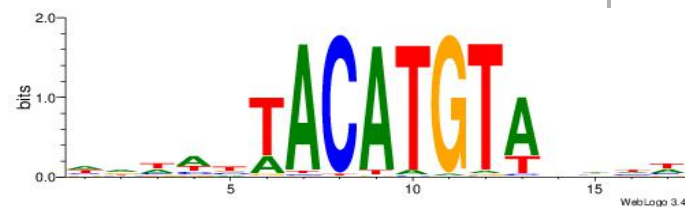
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



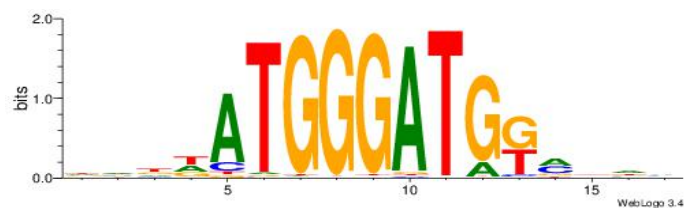
Motif ID: [UP00033](#)
 Motif name: Zfp410_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10

Number of overlap: 5
Similarity score: 0.0150044

Alignment:
DVDDATGGGATGKMDDV
-----ATKTM----

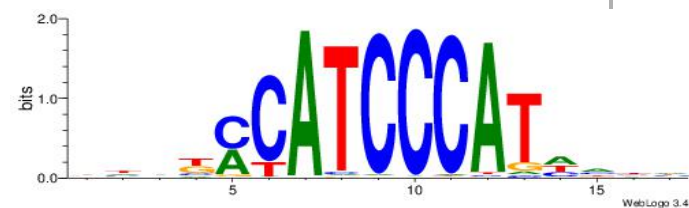
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



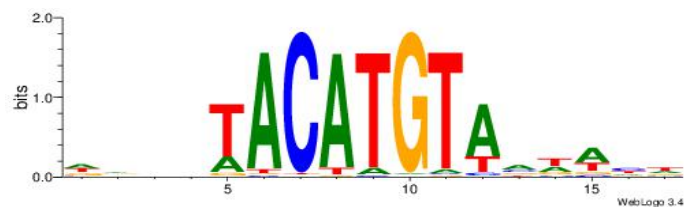
Motif ID: [UP00223](#)
Motif name: Irx3_0920.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 5
Similarity score: 0.0150192

Alignment:
DDDDTACATGTAVWWHD
-----ATKTM-----

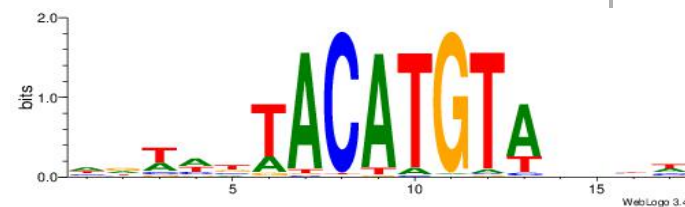
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVVWHHD



Consensus sequence: DDWWBTACATGTADDDD



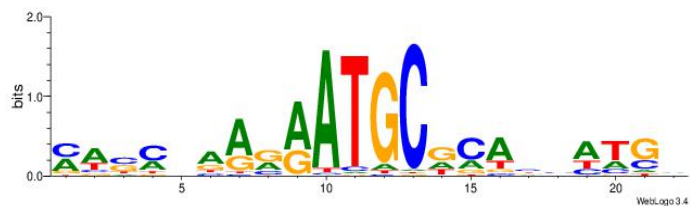
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 5
Similarity score: 0.0166075

Alignment:

```
MWSMBAARRATGCD CABHATGD  
-----RARAT-----
```

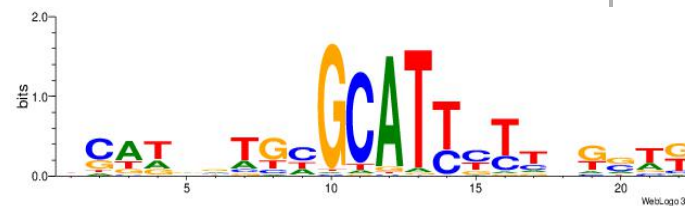
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

Original motif

Consensus sequence: CMGCRGC



Reverse complement motif

Consensus sequence: GCKGCTG



Best Matches for Motif ID 6 (Highest to Lowest)

Motif ID:	UP00052
Motif name:	Osr2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	7
Similarity score:	0

Alignment:

HHHHGCTACKGTHVHH

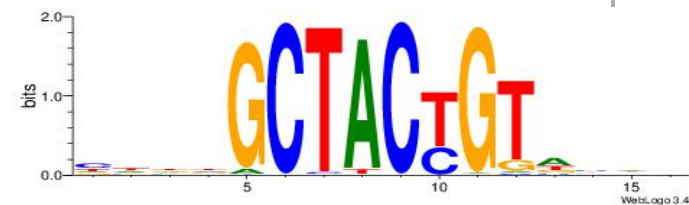
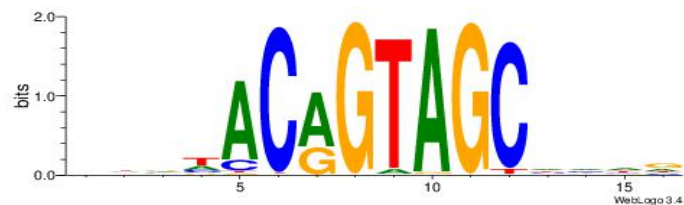
-----GCKGCTG-----

Original motif

Consensus sequence: HHVHACRGTAGCHHHD

Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH

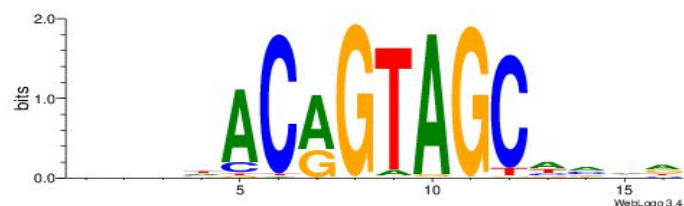


Motif ID: [UP00027](#)
 Motif name: Osr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00108105

Alignment:
 DHBHGCTACKGTHDHH
 ----GCKGCG-----

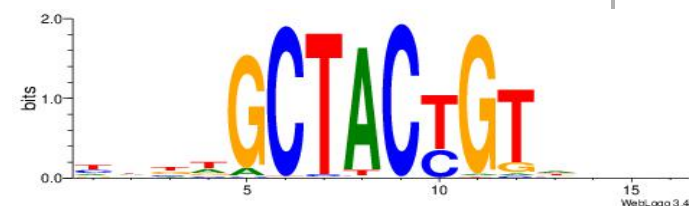
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00099](#)

Motif name:	Ascl2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	7
Similarity score:	0.00905497

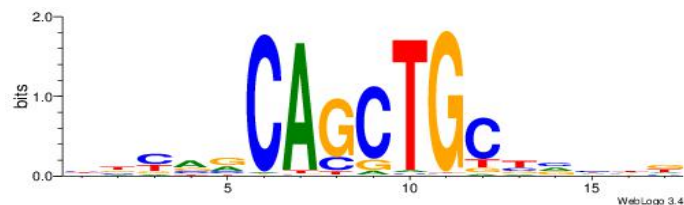
Alignment:

```

BBYVVCAGCTGCBVHHD
-----GCKGCYG----
```

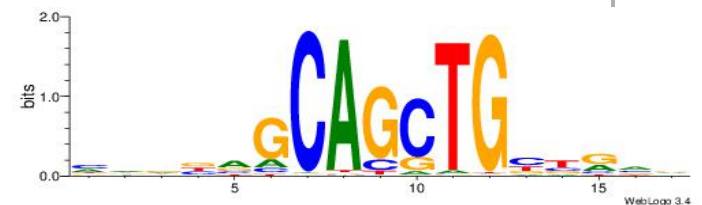
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



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:	6
Number of overlap:	7

Similarity score: 0.0111061

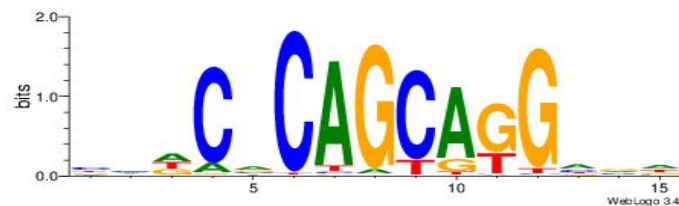
Alignment:

DVHCCTGCTGBGDDDB

---GCKGCTG-----

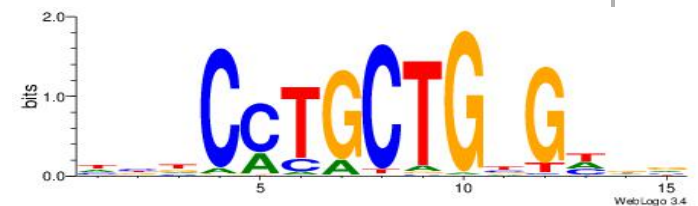
Original motif

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: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 7
Similarity score: 0.0126897

Alignment:

HHDCVCAGCAKGVVD

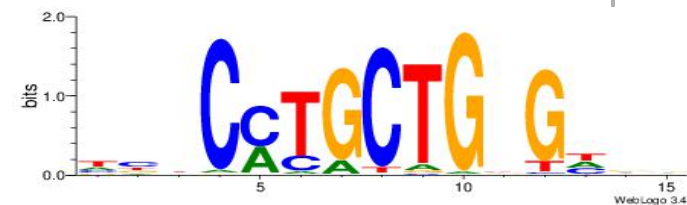
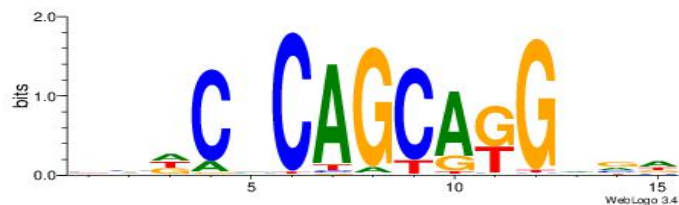
-----CMGCRGC---

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

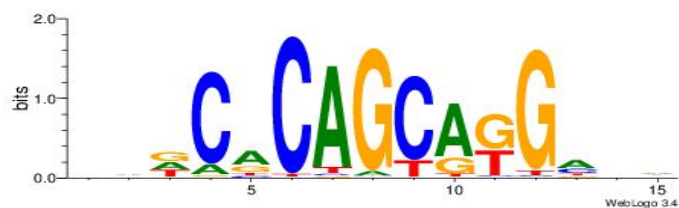
Consensus sequence: DVBCYTGCTGBGDDDB



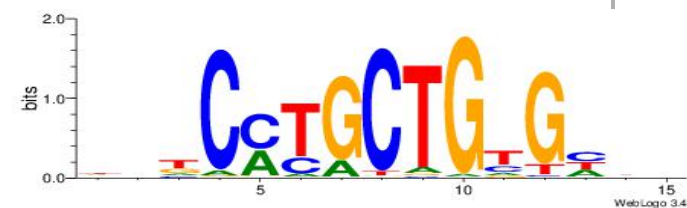
Motif ID: [UP00006](#)
 Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0137402

Alignment:
 DVHCYTGCTGTGHDH
 ---GCKGCG-----

Original motif
 Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif
 Consensus sequence: DVHCYTGCTGTGHDH



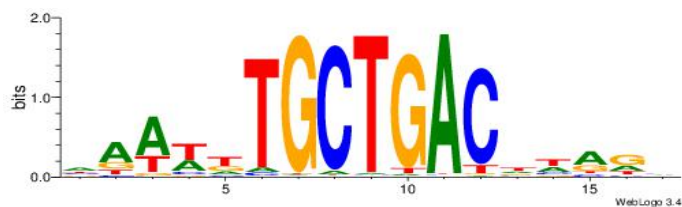
Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 7
 Similarity score: 0.0253076

Alignment:

DMTWDGTCAGCADWTTH
 -----CMGCRGC----

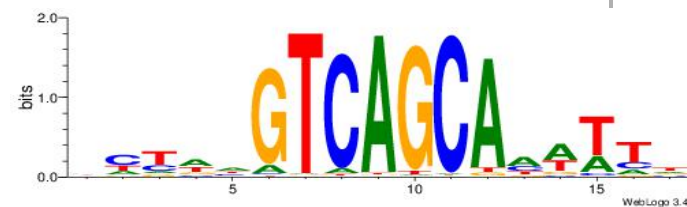
Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



Motif ID: [UP00193](#)
 Motif name: Rhox11_1765.2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9

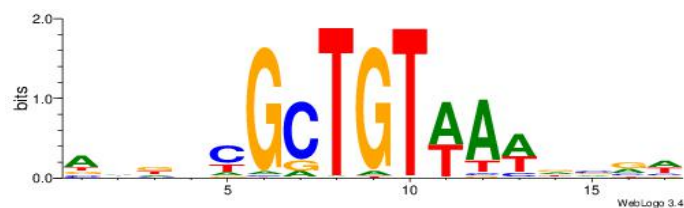
Number of overlap: 7
Similarity score: 0.0292668

Alignment:

WVVHWTWACAGCGBHBT
-----CMGCRGC--

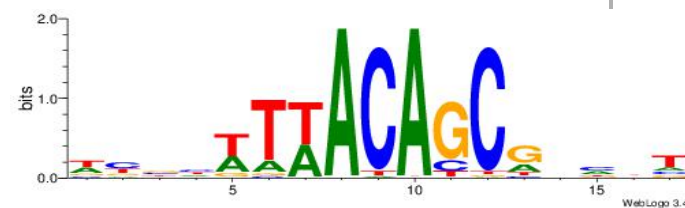
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

Consensus sequence: WVVHWTWACAGCGBHBT



Motif ID: [UP00193](#)
Motif name: RhoX11_2205.1
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: 7
Similarity score: 0.0298083

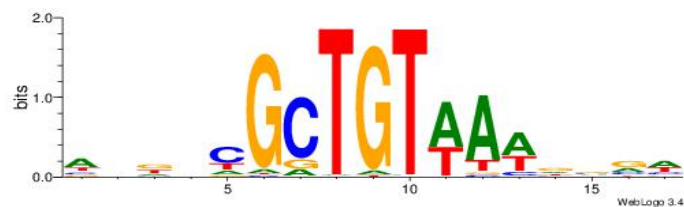
Alignment:

WVVHWTWACAGCGHHVT
-----CMGCRGC--

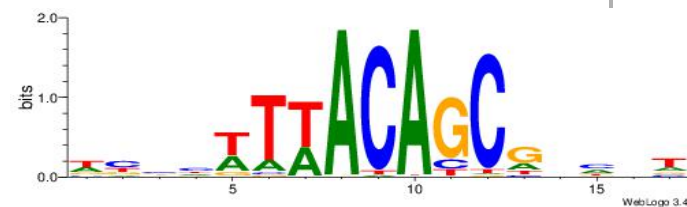
Original motif

Reverse complement motif

Consensus sequence: AVDHCGCTGTWAWDVVW



Consensus sequence: WVVHWTWACAGCGHHVT



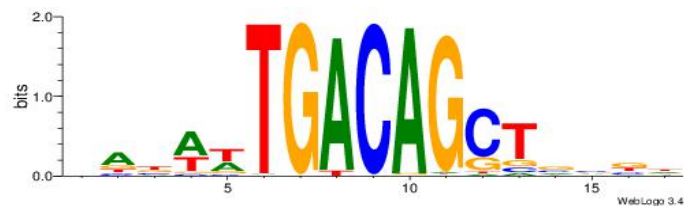
Motif ID: [UP00122](#)
Motif name: Tgif1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 7
Similarity score: 0.0332976

Alignment:

DABWWTGACAGCTVVBD
-----CMGCRGC---

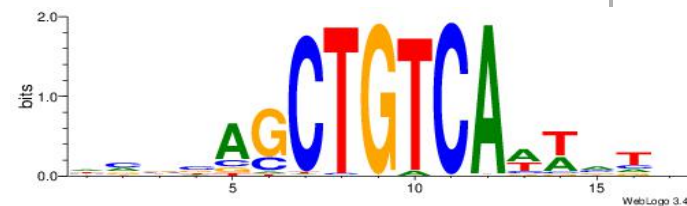
Original motif

Consensus sequence: DABWWTGACAGCTVVBD



Reverse complement motif

Consensus sequence: DBVVAGCTGTCAWWVTH



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

Original motif

Consensus sequence: CCCRCCCC



Reverse complement motif

Consensus sequence: GGGGMGGG



Best Matches for Motif ID 7 (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: 4
Number of overlap: 8
Similarity score: 0

Alignment:

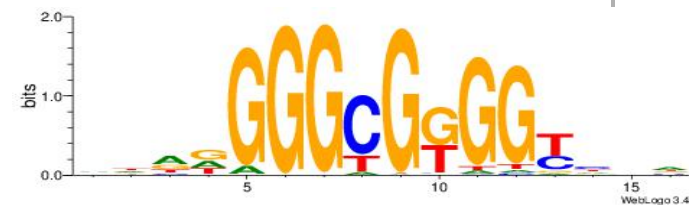
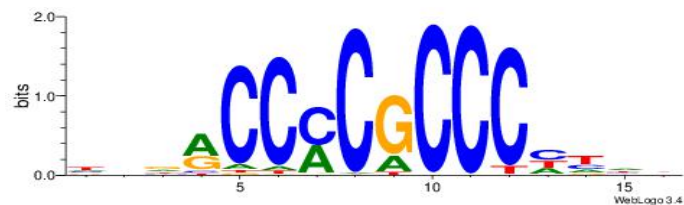
HBDRCCMCGCCCHHHD
-----CCCRCCCC---

Original motif

Consensus sequence: HBDRCCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

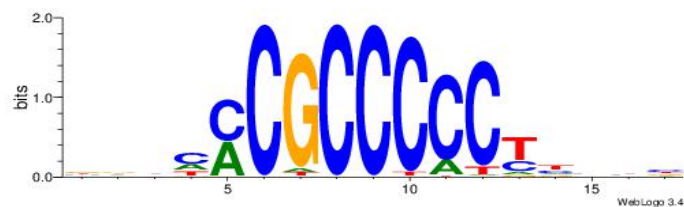


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00490878

Alignment:
 BVVHAGGGGGCGRDHBB
 -----GGGGMGGG---

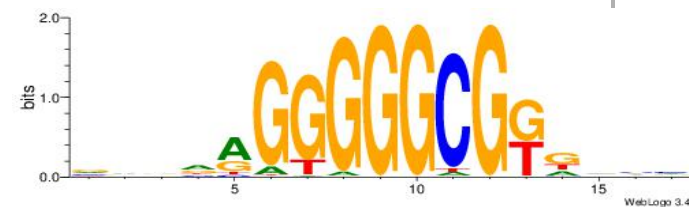
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00007](#)

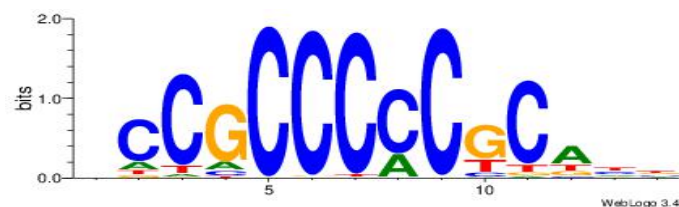
Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0101441

Alignment:

HCCGCCCCCGCAHB
 CCCRCCCC-----

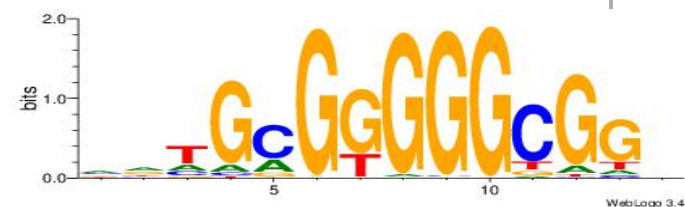
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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: 0.0106908

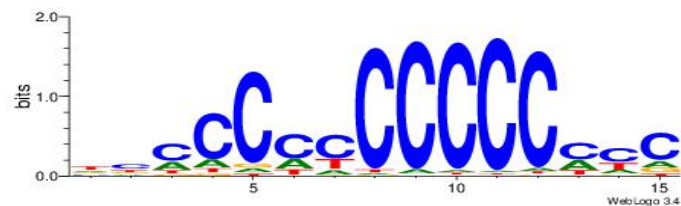
Alignment:

DBCCCCCCCCCMYC

---CCCRCCCC----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



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: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0152681

Alignment:

HBBBCCGCCCCWHHHV

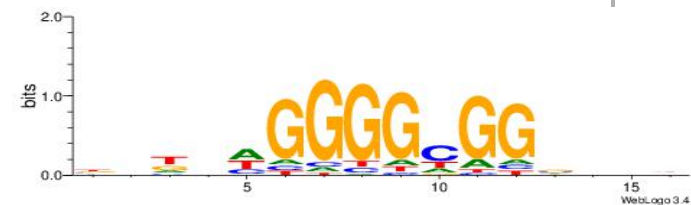
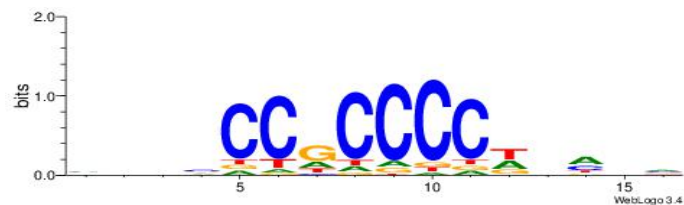
---CCCRCCCC-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



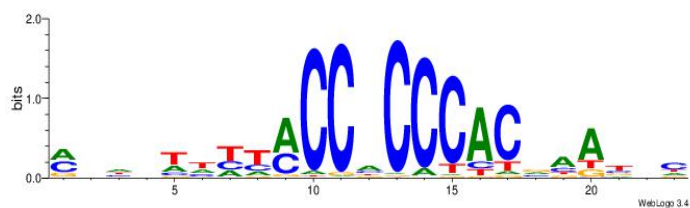
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0252184

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----CCCRCCCC-----

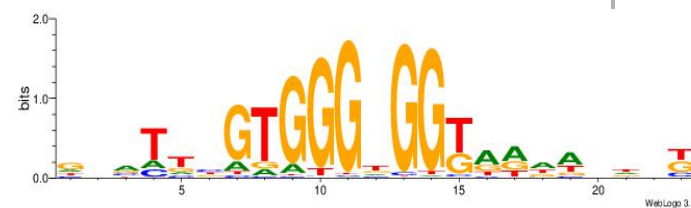
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



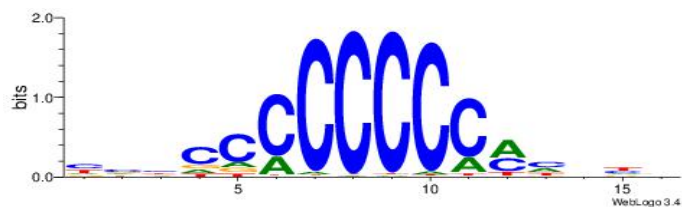
Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0258528

Alignment:

BHHDYGGGGGGGGBVD
 -----GGGGMGGG--

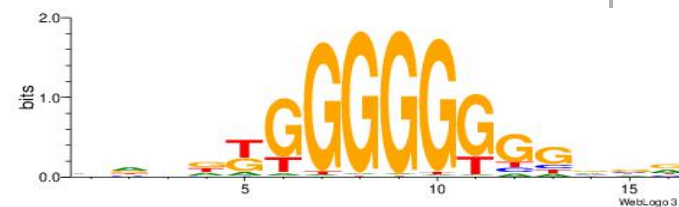
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



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: 6

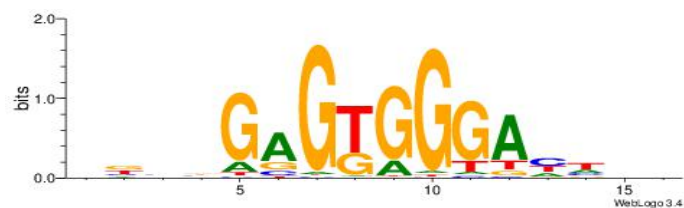
Number of overlap: 8
Similarity score: 0.0318239

Alignment:

BHHDTCCTACTCBDBV
-----CCCRCCCC---

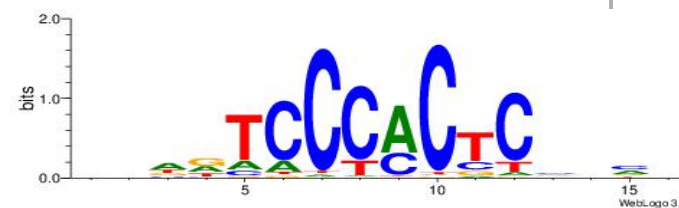
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTACTCBDBV



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: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0333599

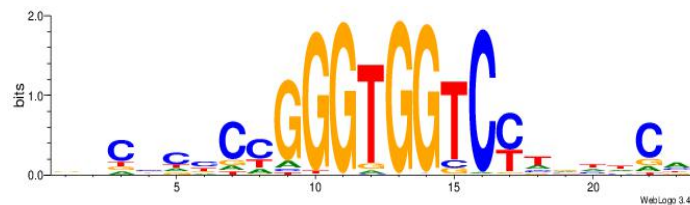
Alignment:

HGDHVKHGACCAACCGGBGBGDB
-----CCCRCCCC-----

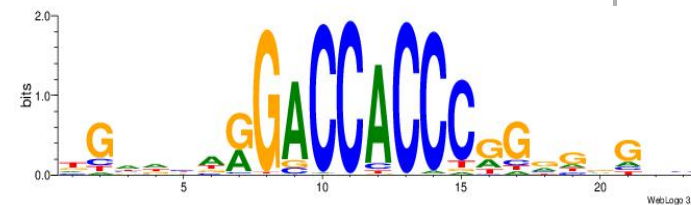
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



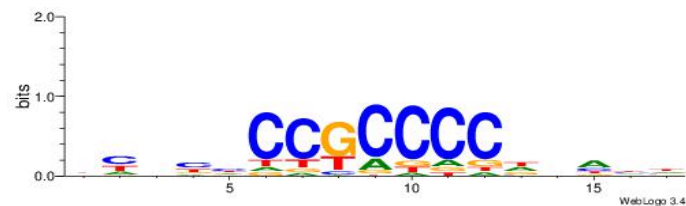
Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0336185

Alignment:

HHHHDGGGGCGGDBHDV
-----GGGGMGG-----

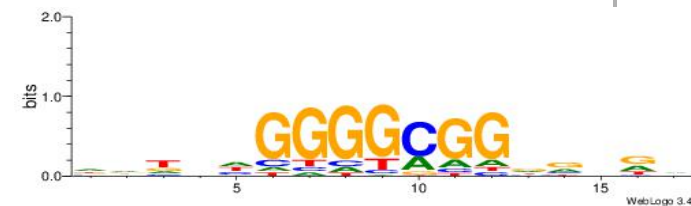
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

Original motif

Consensus sequence: CTGGGA



Reverse complement motif

Consensus sequence: TCCCAG



Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	6
Similarity score:	0

Alignment:

DVDDATGGGATGKMDDV

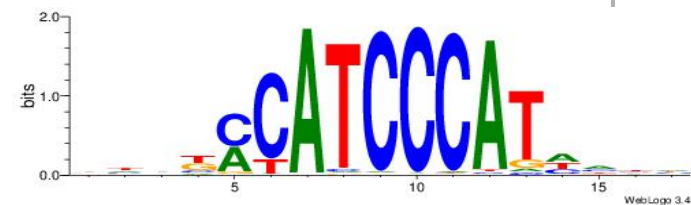
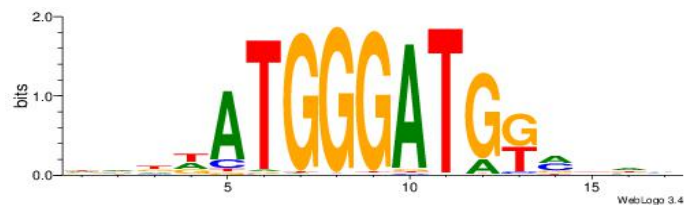
-----CTGGGA-----

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

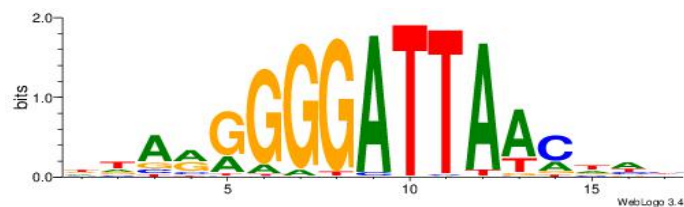


Motif ID: [UP00216](#)
 Motif name: Obox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.000600574

Alignment:
 DHDGTTAATCCCCKTDD
 -----TCCCAG----

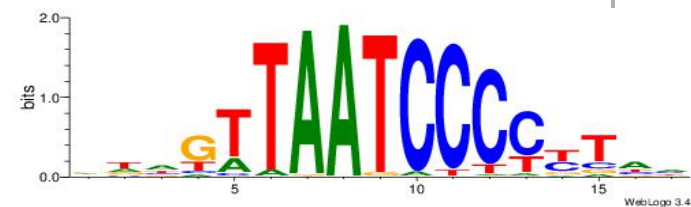
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



Motif ID: [UP00229](#)

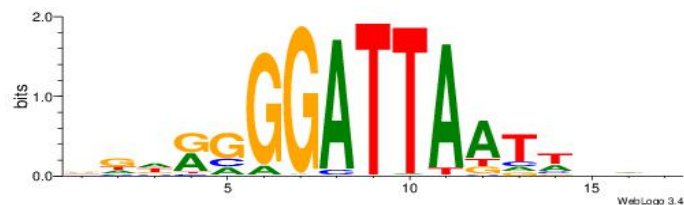
Motif name: Otx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 6
 Similarity score: 0.0140775

Alignment:

VHHWATTAATCCCMDHH
 -----TCCCAG--

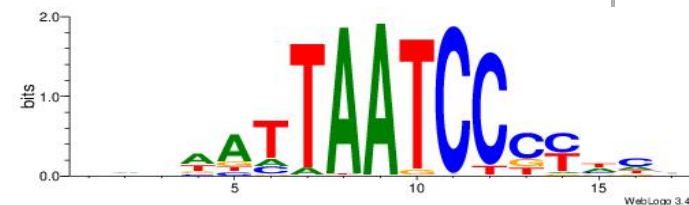
Original motif

Consensus sequence: DDRGGGATTAATWHHB



Reverse complement motif

Consensus sequence: VHHWATTAATCCCMDHH



Motif ID: [UP00160](#)
 Motif name: Obox3
 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: 0.0142192

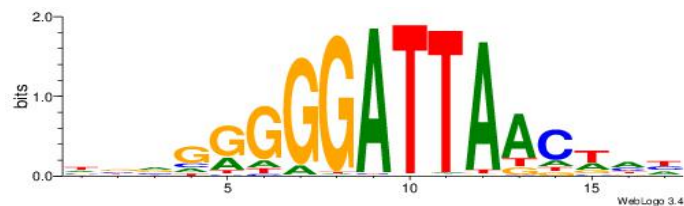
Alignment:

HHWGTTAATCCCCBBH

-----TCCCAG---

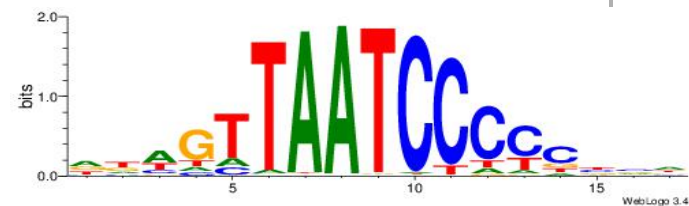
Original motif

Consensus sequence: HBVGGGGGATTAACWHH



Reverse complement motif

Consensus sequence: HHWGTTAATCCCCBBH



Motif ID: [UP00239](#)

Motif name: Obox2

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: 6

Similarity score: 0.0184594

Alignment:

HTARTTAATCCCCCKBD

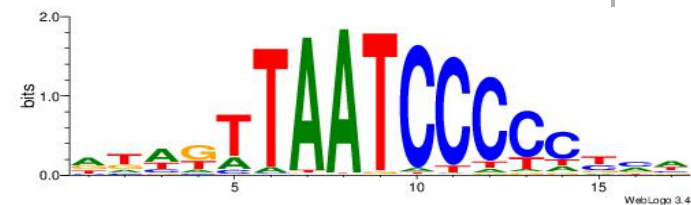
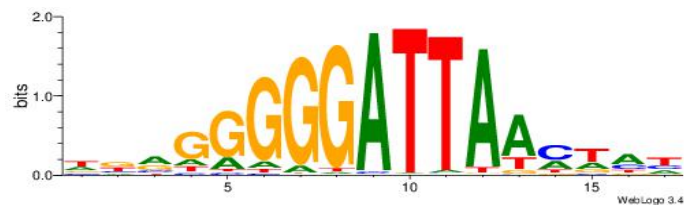
-----TCCCAG---

Original motif

Consensus sequence: DBRGGGGGATTAAMTAH

Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



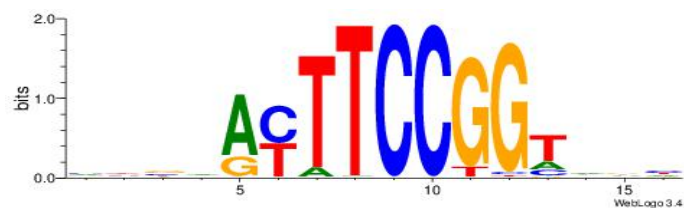
Motif ID: [UP00416](#)
 Motif name: Fli1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.018604

Alignment:

DHDACCGGAAKTBBVV
 ----CTGGGA-----

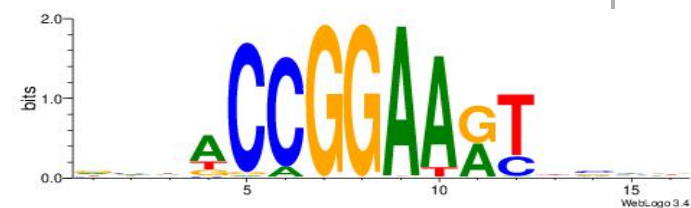
Original motif

Consensus sequence: VBBVAYTTCCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAAKTBBVV



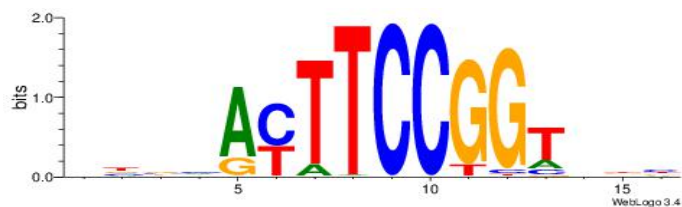
Motif ID: [UP00411](#)
 Motif name: Erg
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0196433

Alignment:

BDDACCGGAAKTVBVB
 -----CTGGGA-----

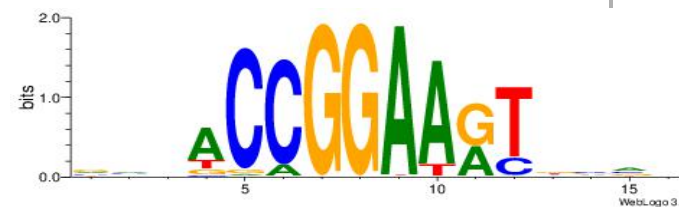
Original motif

Consensus sequence: VBBVAYTTCCGGTDDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



Motif ID: [UP00413](#)
 Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

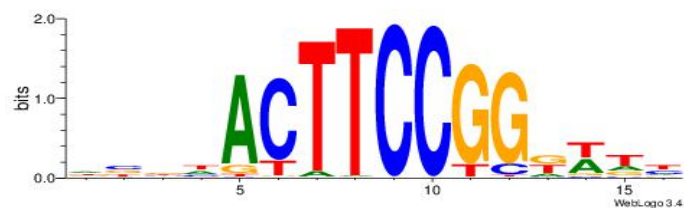
Number of overlap: 6
Similarity score: 0.0196806

Alignment:

HAWYCCGGAAGTHBBD
-----CTGGGA-----

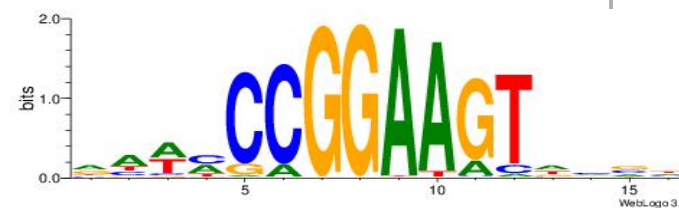
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00143](#)
Motif name: Dobox5
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: 6
Similarity score: 0.0199632

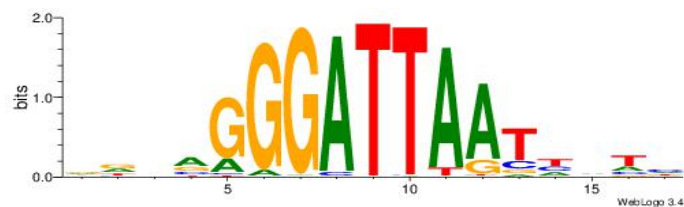
Alignment:

DDHVGGGATTAATHDTH
--CTGGGA-----

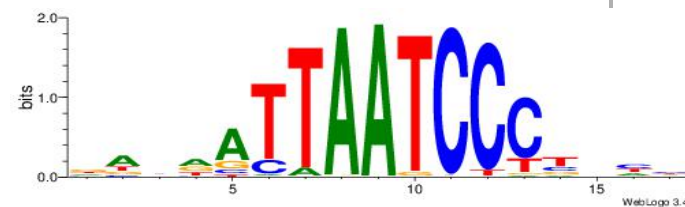
Original motif

Reverse complement motif

Consensus sequence: DDHVGGGATTAATHDTH



Consensus sequence: DADHATTAATCCCBHHH



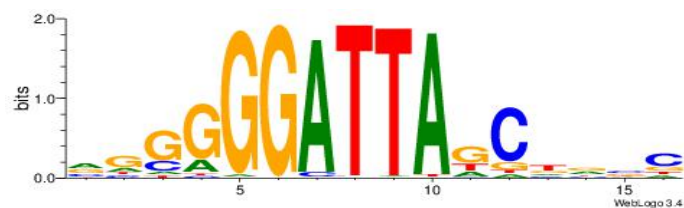
Motif ID: [UP00265](#)
Motif name: Pitx3
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0210625

Alignment:

GBHDGCTAATCCCCCB
-----TCCCAG--

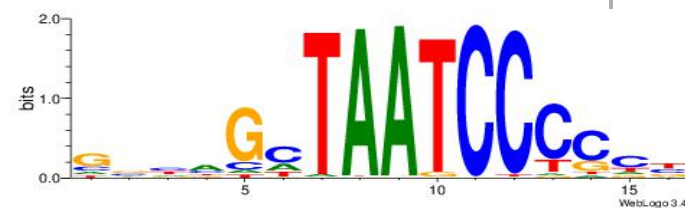
Original motif

Consensus sequence: VGGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



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

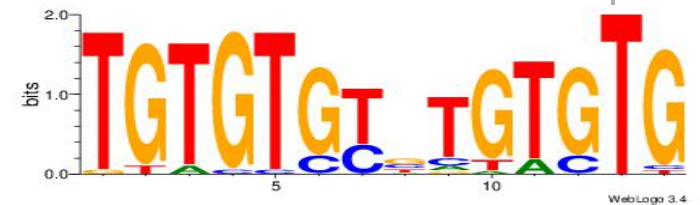
Original motif

Consensus sequence: CACACAVRCACACA



Reverse complement motif

Consensus sequence: TGTGTGKVTGTGTG



Best Matches for Motif ID 9 (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:	9
Number of overlap:	14
Similarity score:	0.0487588

Alignment:

```
VYWVVHCRCCACMCACGAHSBHH
-CACACAVRCACACA-----
```

Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

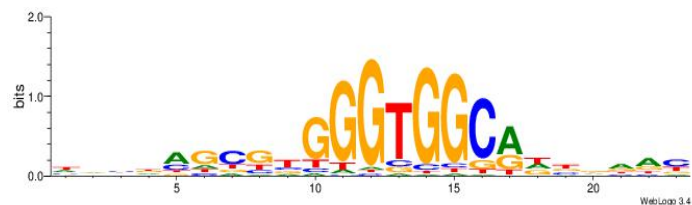
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 14
 Similarity score: 0.0503392

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 TGTGTGKVTGTGTG-----

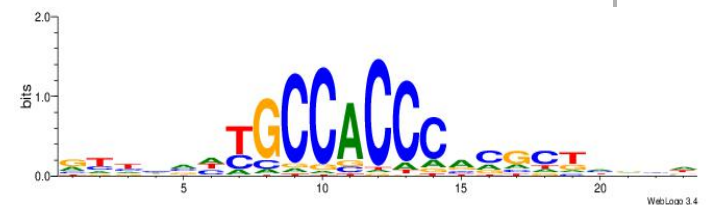
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



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: Forward
 Position number: 2
 Number of overlap: 14

Similarity score: 0.0506792

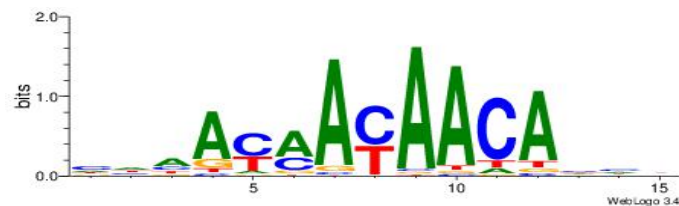
Alignment:

HDDTGTTKTTKTHHD

-TGTGTGKVTGTGTG

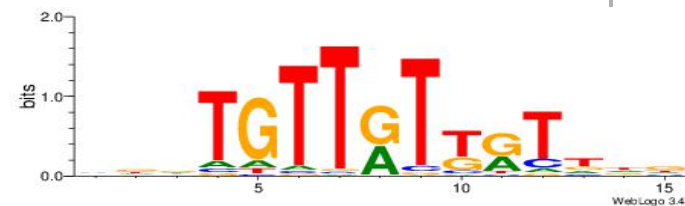
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00036](#)
Motif name: Myf6_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: 0.0516113

Alignment:

VVVRACAGVCBCDCC

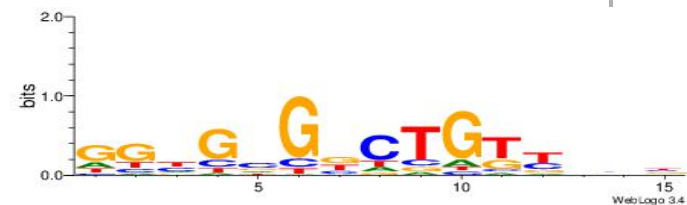
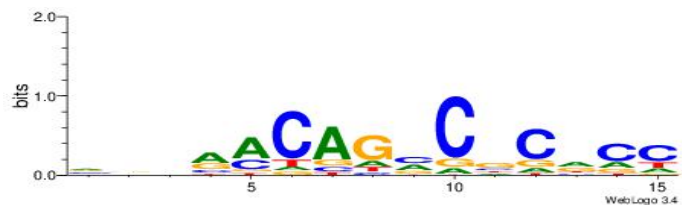
-CACACAVRCACACA

Original motif

Consensus sequence: VVVRACAGVCBCDCC

Reverse complement motif

Consensus sequence: GGDGBGVCTGTVVB

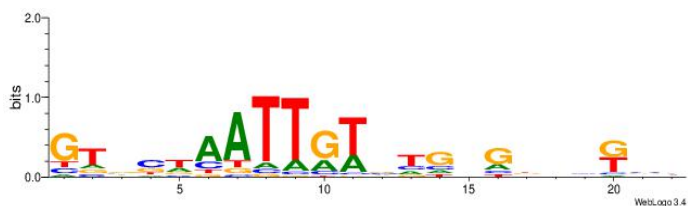


Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0523703

Alignment:
 GTVBDAATTGTVTGHGDDHKVB
 CACACAVRCACACA-----

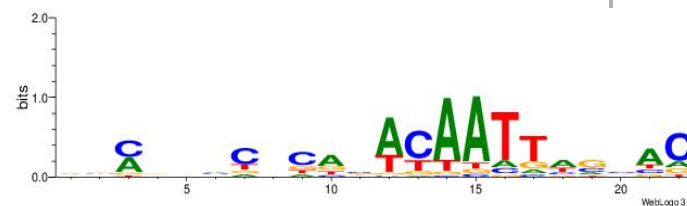
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



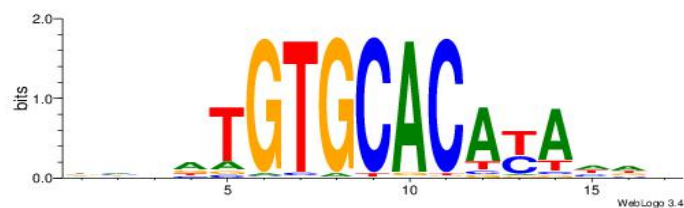
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary

Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0557355

Alignment:
DHVDTGTGCACAYAH DH
CACACAVRCACACA---

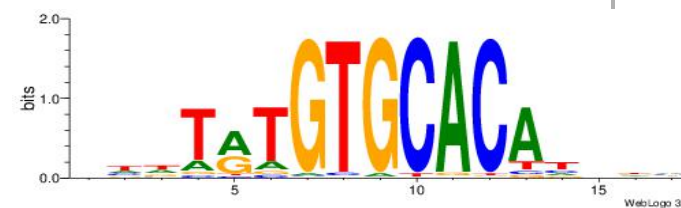
Original motif

Consensus sequence: DHVDTGTGCACAYAH DH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



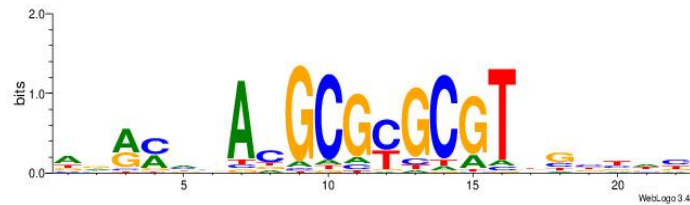
Motif ID: [UP00526](#)
Motif name: Foxn1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 14
Similarity score: 0.0578572

Alignment:

DDRMHBACGCGYGCGTDGBBDB
-CACACAVRCACACA-----

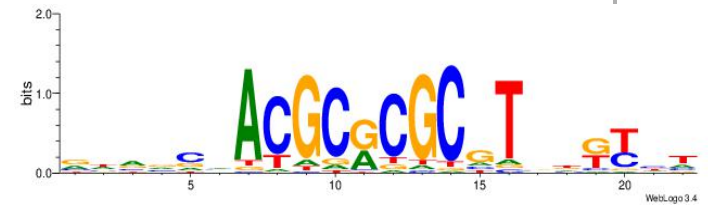
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Motif ID:	UP00400
Motif name:	Zif268
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0580046

Alignment:

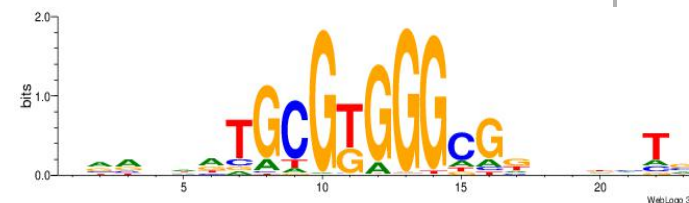
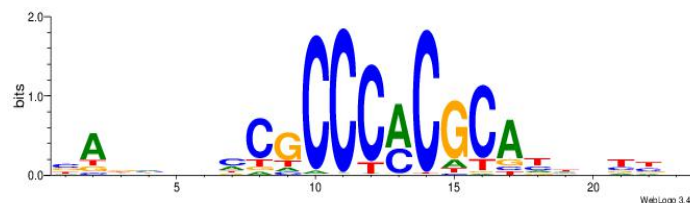
VVVDHHTGCGYGGGCGDHSVHHTB
-----TGTGTGKVTGTGTG----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB

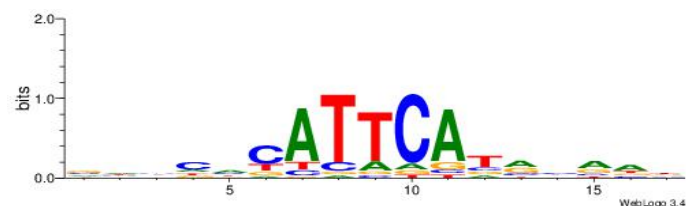


Motif ID: [UP00014](#)
 Motif name: Sox17_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0581238

Alignment:
 DDBDKATGAATGHDBHV
 --TGTGTGKVTGTGTG--

Original motif

Consensus sequence: VHBHHCATTCATRHVDD



Reverse complement motif

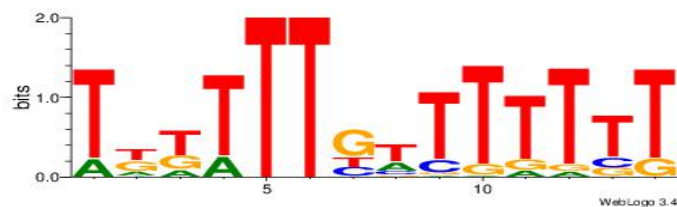
Consensus sequence: DDBDKATGAATGHDBHV



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

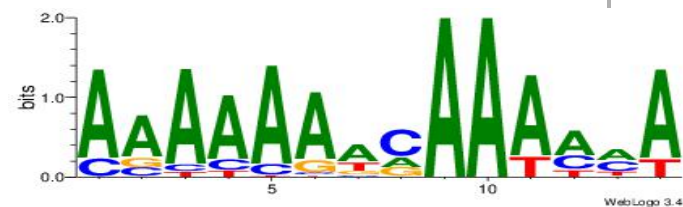
Original motif

Consensus sequence: TKKTTTGTTTTTTT



Reverse complement motif

Consensus sequence: AAAAAACAAARRA



Best Matches for Motif ID 10 (Highest to Lowest)

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:	3
Number of overlap:	14
Similarity score:	0.0319341

Alignment:

HDTYTTGTTWTKDDDT

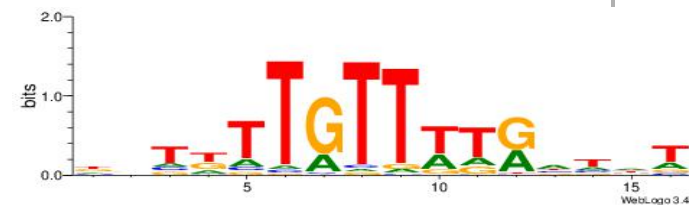
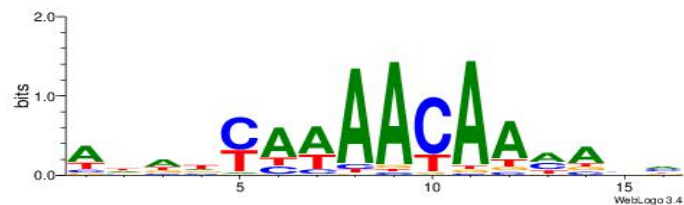
TKKTTTGTTTTTTT--

Original motif

Consensus sequence: ADDDYAWAACAAMAHH

Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT

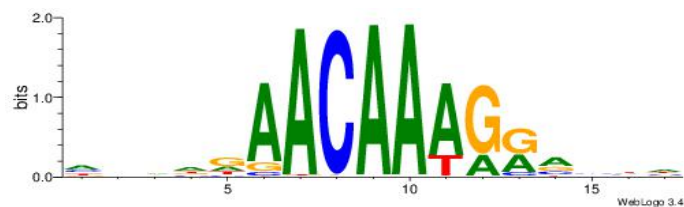


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0368361

Alignment:
 HBDDDAACAAAGRVBHH
 AAAAAACAAARRA---

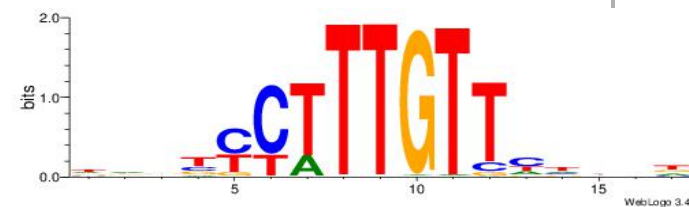
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



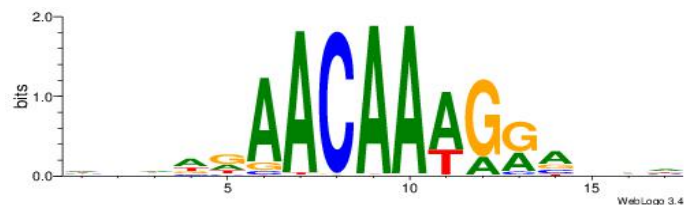
Motif ID: [UP00030](#)

Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0370295

Alignment:
 HBDDRAACAAAGRABHH
 AAAAAACAAARRA---

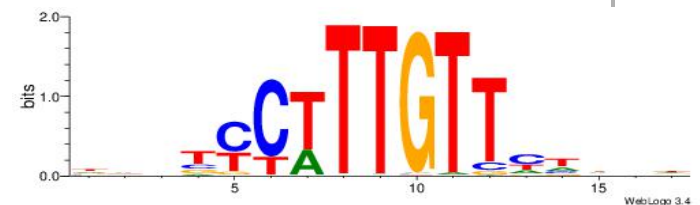
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



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: 3
 Number of overlap: 14

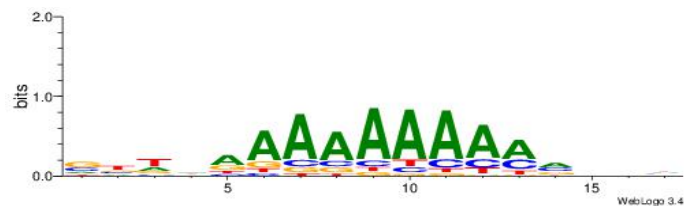
Similarity score: 0.038882

Alignment:

HHVBYTTTTTTTTDDVV
-TKKTTTGTTTTTTT--

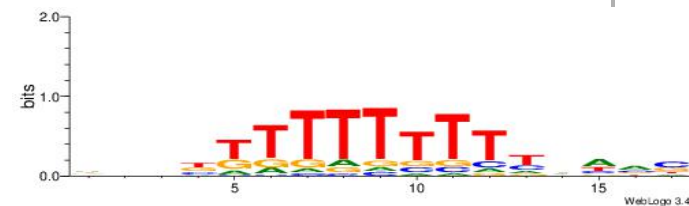
Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTTDDVV



Motif ID: [UP00101](#)
Motif name: Sox12_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: 14
Similarity score: 0.0402601

Alignment:

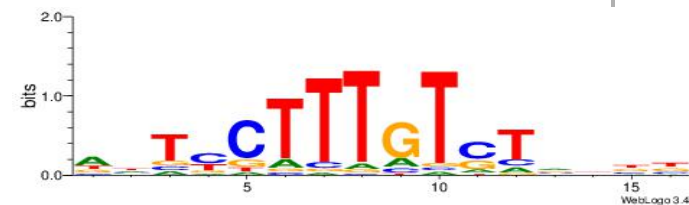
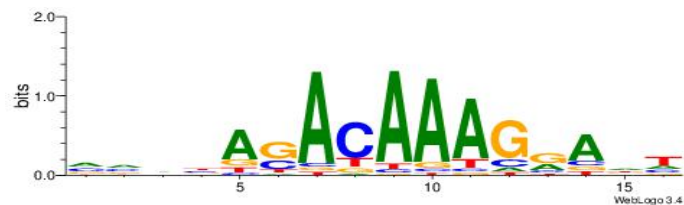
HDTMCTTTGTSTVDBB
AAAAAAACAAARRA--

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

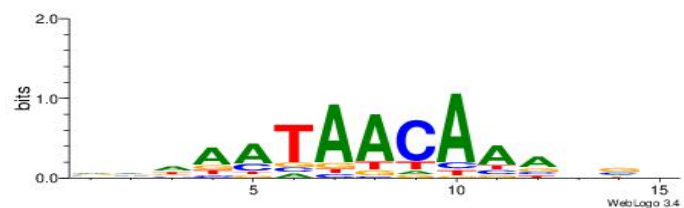
Consensus sequence: HDTMCTTTGTSTVDBB



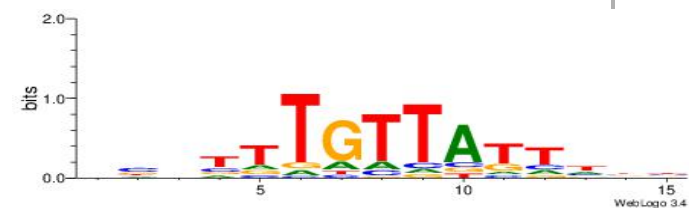
Motif ID: [UP00073](#)
 Motif name: Foxa2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0402844

Alignment:
 VVDAATAACAAAVVB
 -AAAAAACAARRA

Original motif
 Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif
 Consensus sequence: BVVTTTGTATTDBB



Motif ID: [UP00034](#)

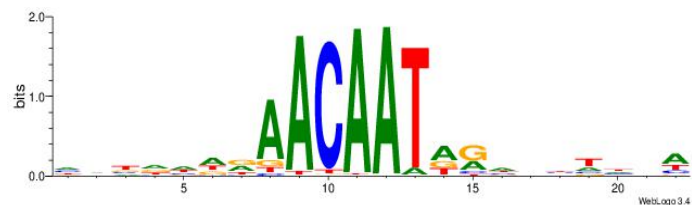
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 14
 Similarity score: 0.0409353

Alignment:

HHBDHDDAACAATDRHHHHHBW
 --AAAAAACAARRA-----

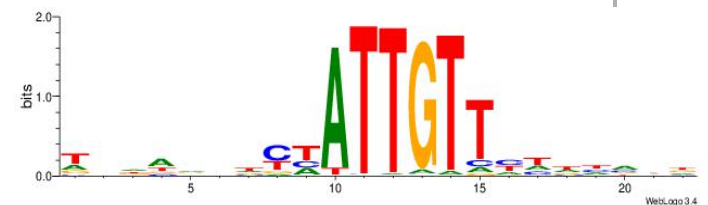
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



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: 2
 Number of overlap: 14

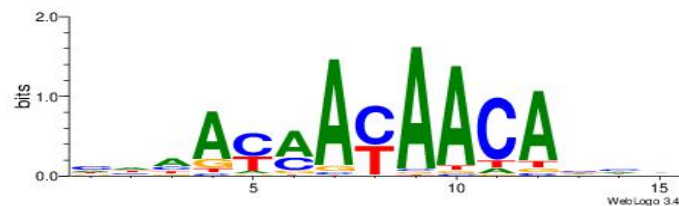
Similarity score: 0.0416172

Alignment:

HDDTGTTKTTKTHHD
-TKKTTTGTTTTTTT

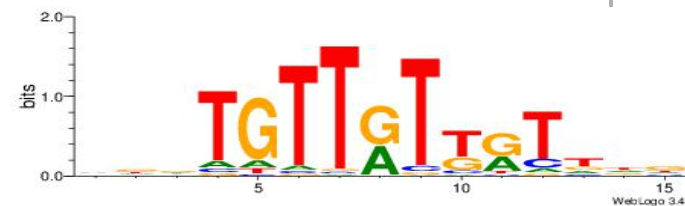
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



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: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0419017

Alignment:

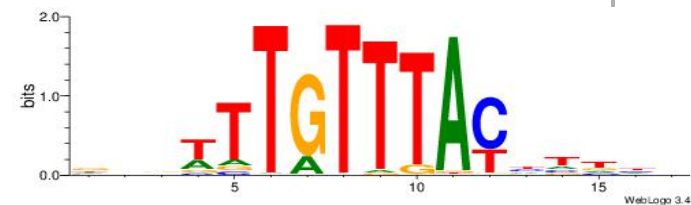
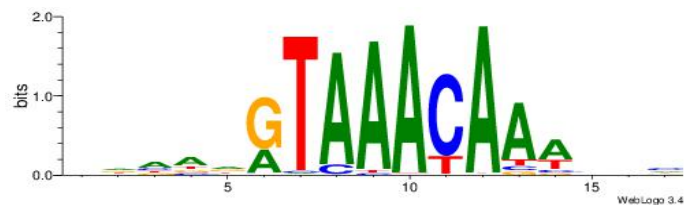
DVVT TTGTTTACDTHDH
---AAAAAACAARRA

Original motif

Consensus sequence: HDHADGTAAACAAVVH

Reverse complement motif

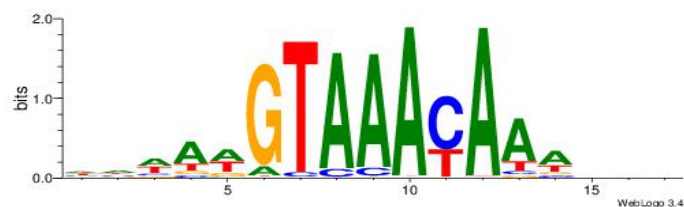
Consensus sequence: DVVT TTGTTTACDTHDH



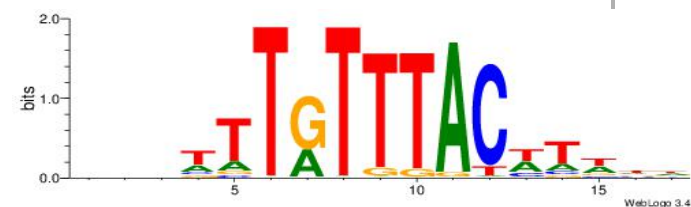
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0439168

Alignment:
 BDVTTTKTTTACWTWHH
 ---AAAAAACAAARRA

Original motif
 Consensus sequence: HHWAWGTAAAYAAVDB



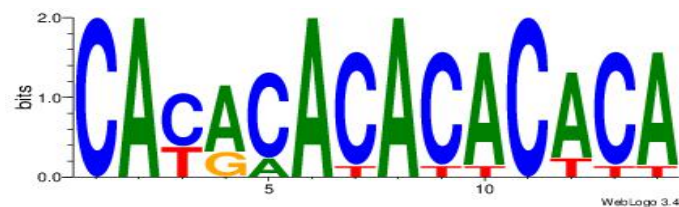
Reverse complement motif
 Consensus sequence: BDVTTTKTTTACWTWHH



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

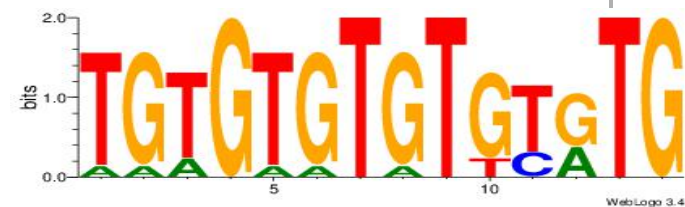
Original motif

Consensus sequence: CAYACACACACACA



Reverse complement motif

Consensus sequence: TGTGTGTGTGKTG



Best Matches for Motif ID 11 (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:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0235042

Alignment:

DVMVGCACACACKCVH

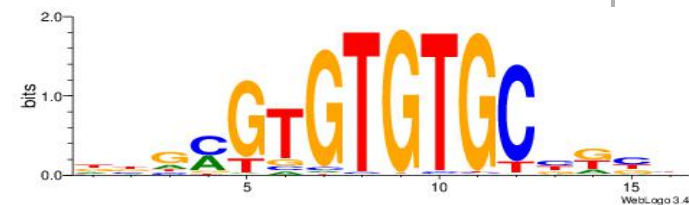
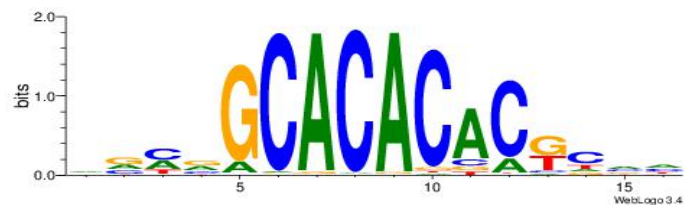
–CAYACACACACACA–

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

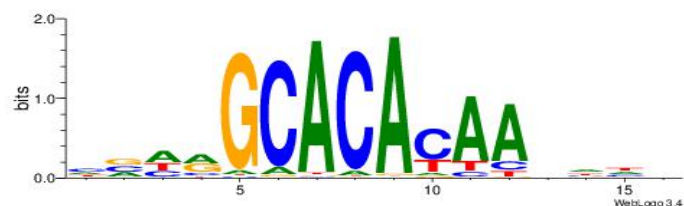


Motif ID: [UP00026](#)
 Motif name: Zscan4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0372612

Alignment:
 BHHHTTGTGTGCKHVD
 -TGTGTGTGTGKTG-

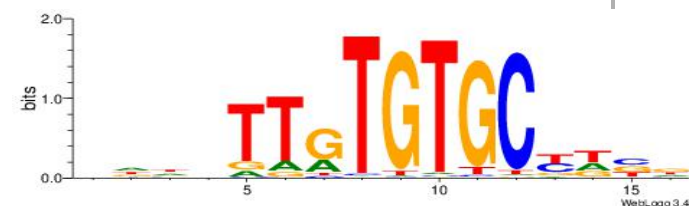
Original motif

Consensus sequence: HVHRGCACACAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00000](#)

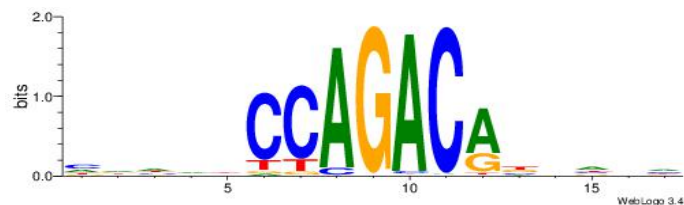
Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0446373

Alignment:

HVHBVTGTCTGGDDHDD
 ---TGTGTGTGTGKTG

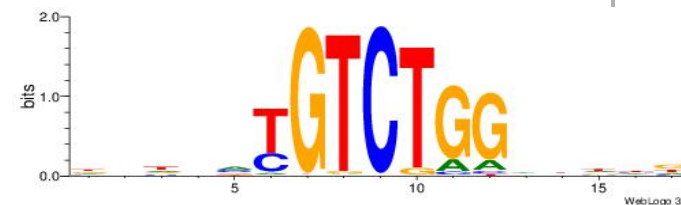
Original motif

Consensus sequence: HDHDDCCAGACABBHVH



Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD



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: 14

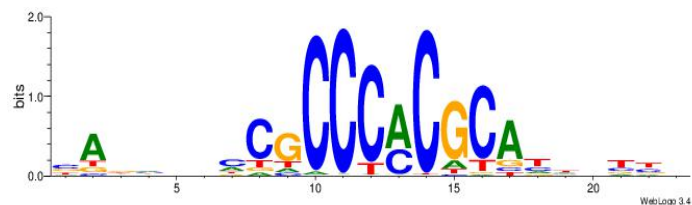
Similarity score: 0.0457169

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
---CAYACACACACA-----

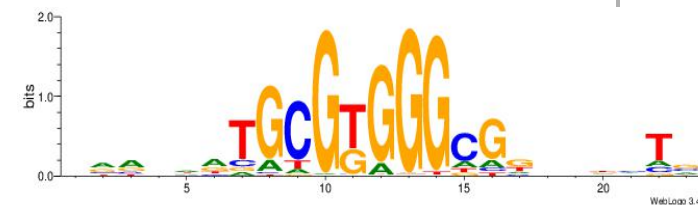
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



Motif ID: [UP00034](#)
Motif name: Sox7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0477221

Alignment:

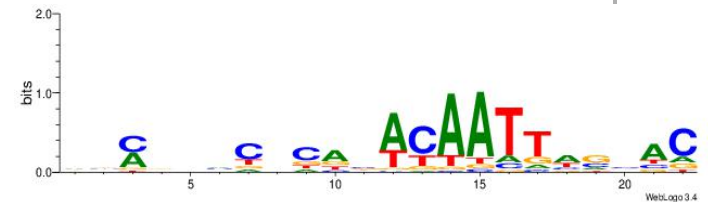
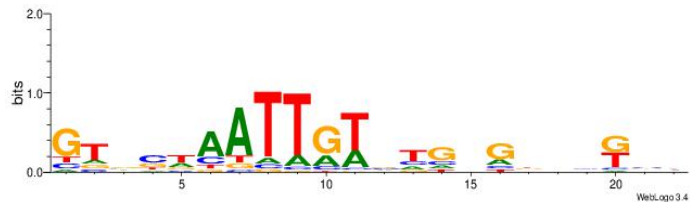
GTVBDAATTGTVTGHGDDHKVB
CAYACACACACACA-----

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

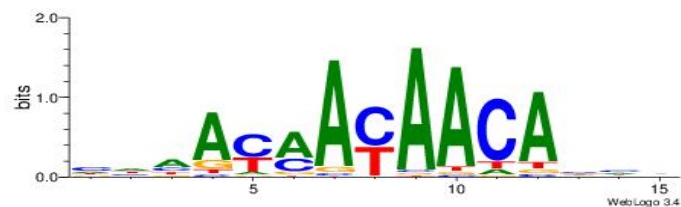


Motif ID: [UP00025](#)
 Motif name: Foxk1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0485483

Alignment:
 HDDTGTTKTTKTHHD
 -TGTGTGTGTGKTG

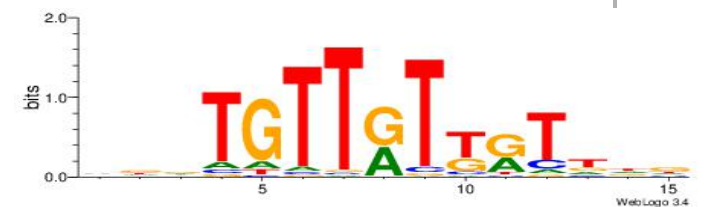
Original motif

Consensus sequence: HHHAYAAYAACAHHH



Reverse complement motif

Consensus sequence: HDDTGTTKTTKTHHD



Motif ID: [UP00041](#)

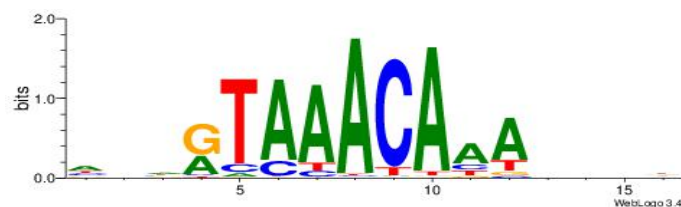
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0488633

Alignment:

HDHRTAAACAAHDDD
 CAYACACACACACA--

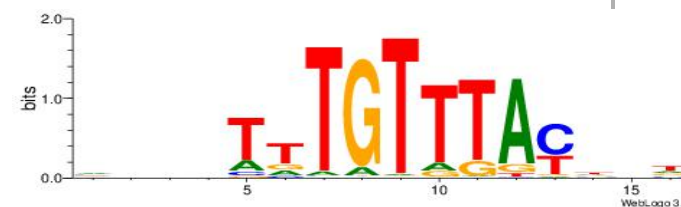
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



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: 14

Similarity score: 0.0489596

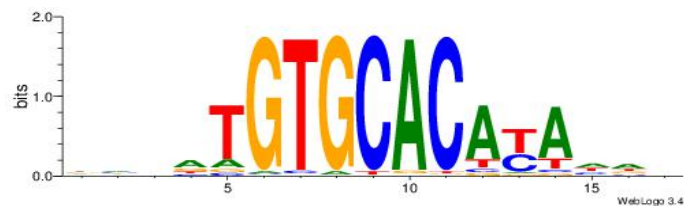
Alignment:

DHVDTGTGCACAYAHDH

--CAYACACACACACA--

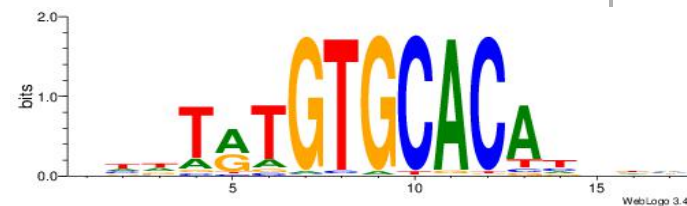
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



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: 0.0501133

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB

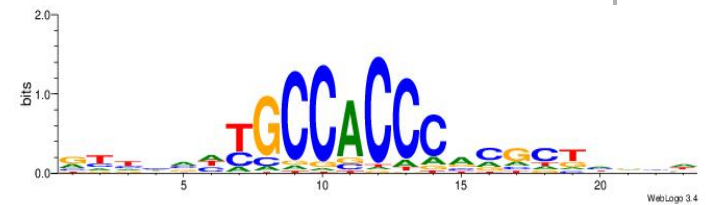
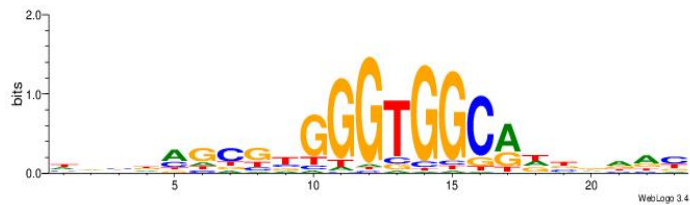
TGTGTGTGTGKTG-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

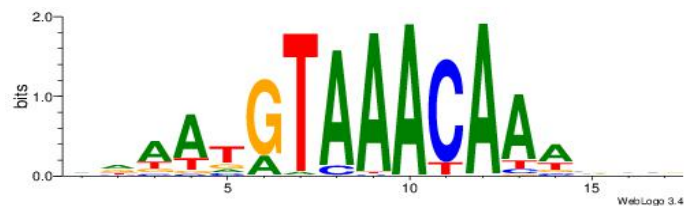
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



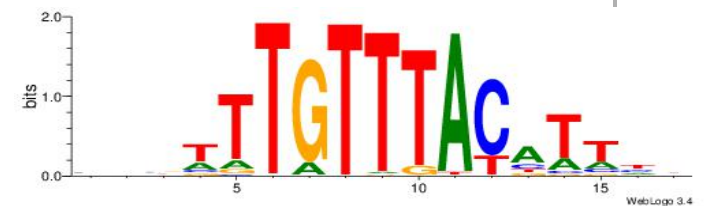
Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0518949

Alignment:
 DDAATGTAAACAAVVB
 --CAYACACACACA-

Original motif
 Consensus sequence: DDAATGTAAACAAVVB



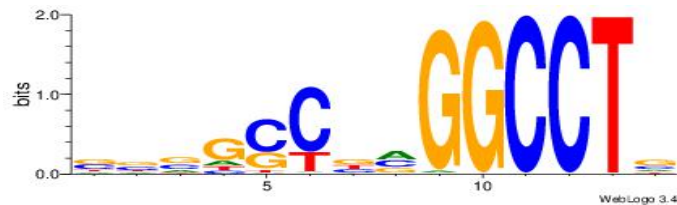
Reverse complement motif
 Consensus sequence: BBVTTTGTTCATTTDD



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

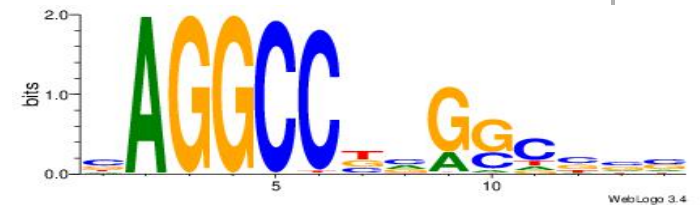
Original motif

Consensus sequence: BBVGCCBVGGCCTV



Reverse complement motif

Consensus sequence: VAGGCCBBGGCVBB



Best Matches for Motif ID 12 (Highest to Lowest)

Motif ID:	UP00005
Motif name:	Tcfap2a_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0596136

Alignment:

HHRCCBBWGGDCDB

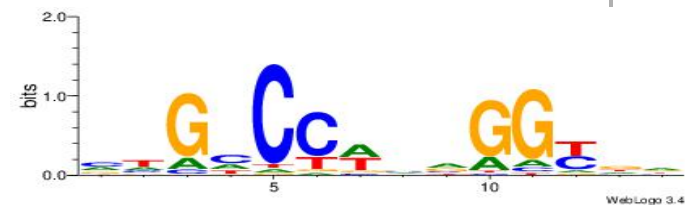
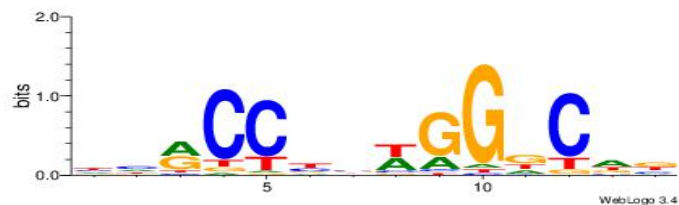
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



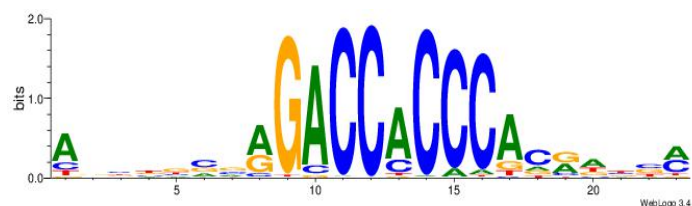
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 14
 Similarity score: 0.0603516

Alignment:

ABBBBVVRGACCACCCACRDBBM
 BBVGCCBVGGCCTV-----

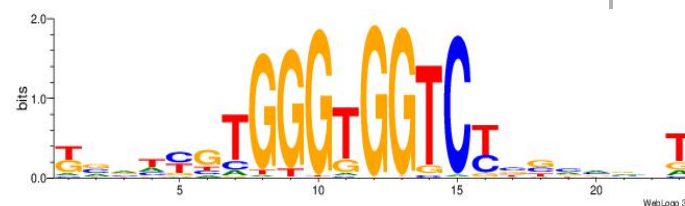
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

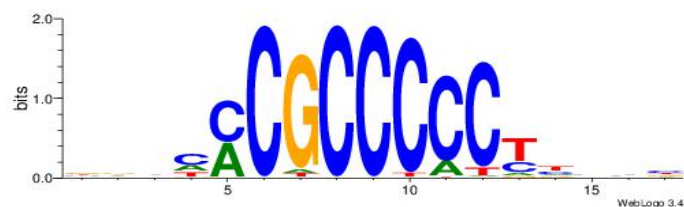
Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0604694

Alignment:

BDHMC G C C C C C T H V B B
 --- V A G G C C B B G G C V B B

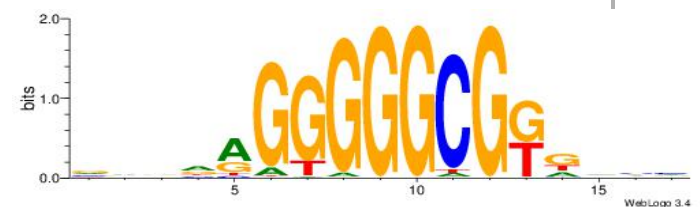
Original motif

Consensus sequence: BDHMC G C C C C C T H V B B



Reverse complement motif

Consensus sequence: B V V H A G G G G G C G R D H H B

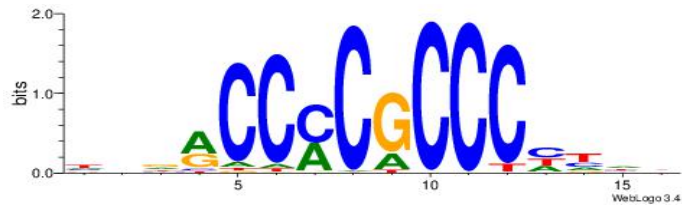


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14

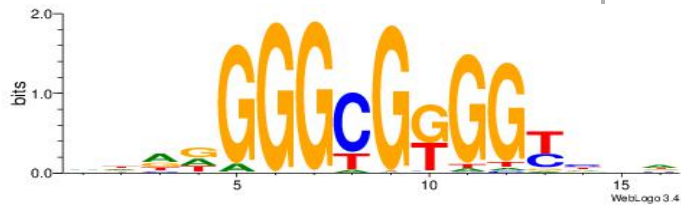
Similarity score: 0.0606067

Alignment:
HBDRCMCGCCCHHD
BBVGCCBVGGCTV--

Original motif
Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif
Consensus sequence: DHHDGGGCGRGGKHBH

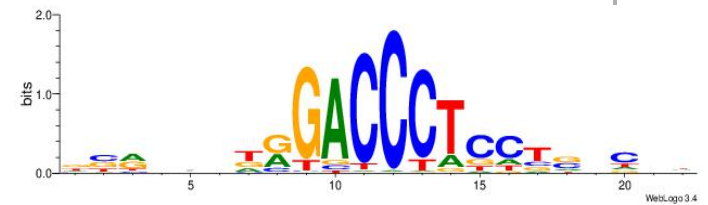
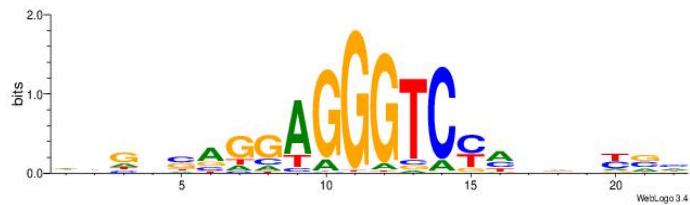


Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 14
Similarity score: 0.0606878

Alignment:
HVGVSAGGAGGGTCYHHHHYVH
-----VAGGCCBBGGCVBB

Original motif
Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



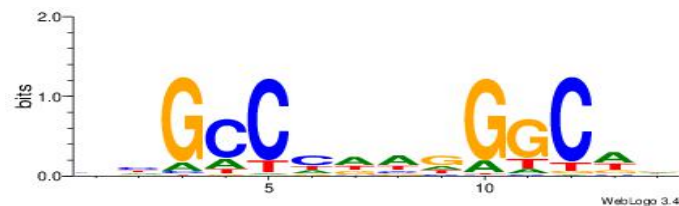
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0608063

Alignment:

HWGCCCTDGGGCDB
 VAGGCCBBGGCVBB

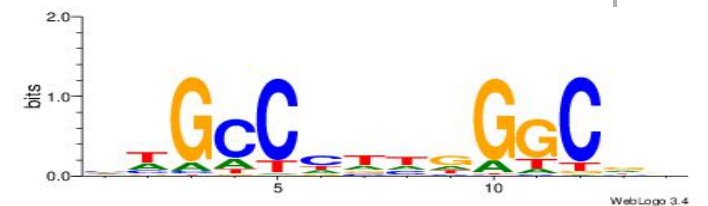
Original motif

Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif

Consensus sequence: HWGCCCTDGGGCDB



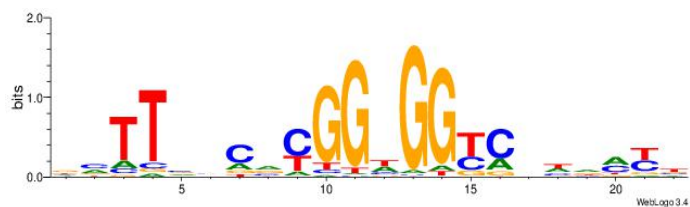
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0615001

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
 ----BBVGCCBVGGCCTV----

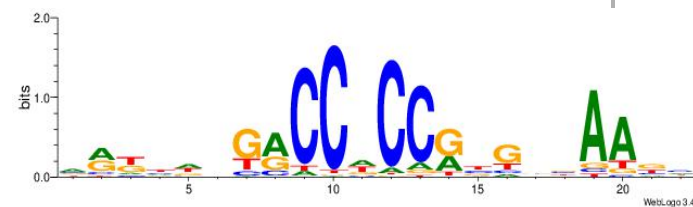
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAAVH



Motif ID: [UP00010](#)
 Motif name: Tcfap2b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2

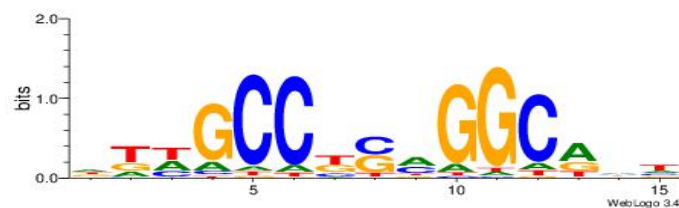
Number of overlap: 14
Similarity score: 0.0624288

Alignment:

HHKGCCYSRGGCWAD
-BBVGCCBVGGCCTV

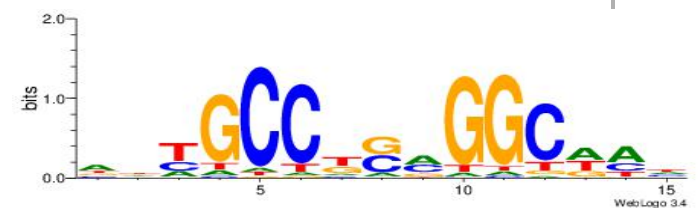
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



Motif ID: [UP00082](#)
Motif name: Zfp187_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: 14
Similarity score: 0.0627664

Alignment:

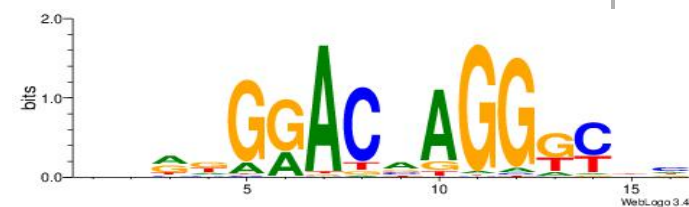
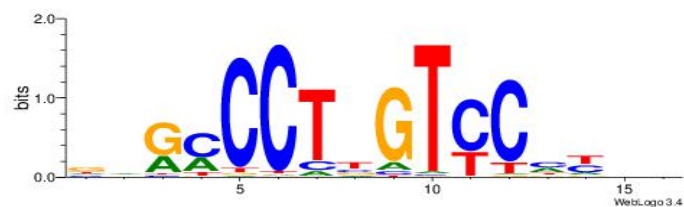
VHMDGGACVAGGRCDH
VAGGCCBBGGCVBB--

Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV

Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH

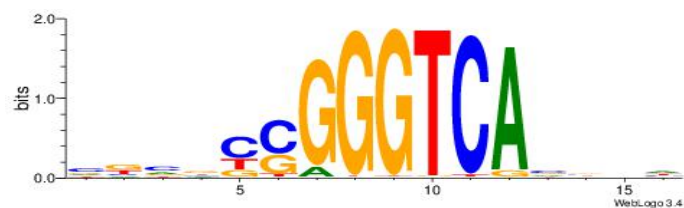


Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0636529

Alignment:
 HVBVTGACCCSGBVBV
 --VAGGCCBBGGCVBB

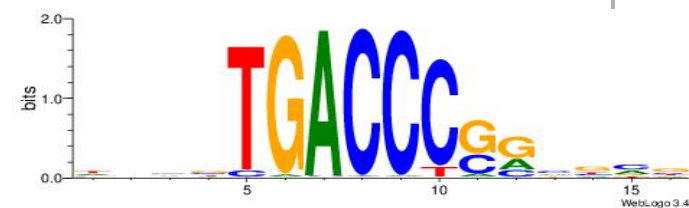
Original motif

Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif

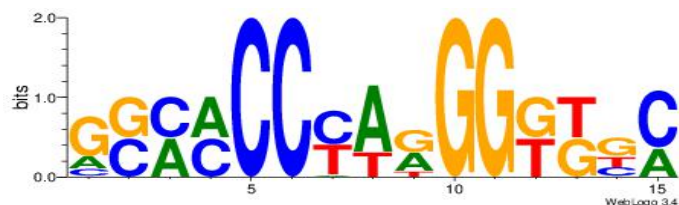
Consensus sequence: HVBVTGACCCSGBVBV



Dataset #: 2 **Motif ID: 13** **Motif name: Zfp423**

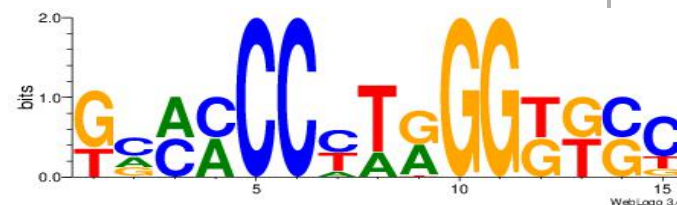
Original motif

Consensus sequence: GSMMCCYARGGKKKC



Reverse complement motif

Consensus sequence: GYRYCCMTKGGYRSC



Best Matches for Motif ID 13 (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:	1
Number of overlap:	15
Similarity score:	0.0178077

Alignment:

BMCCCCCGGGGGGB

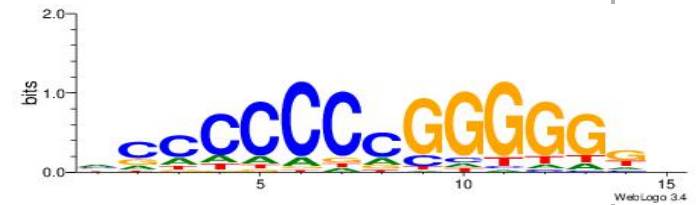
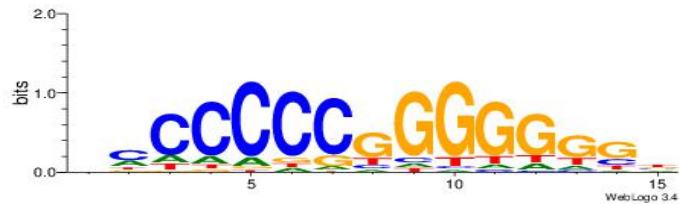
GSMMCCYARGGKKKC

Original motif

Consensus sequence: BMCCCCCGGGGGGB

Reverse complement motif

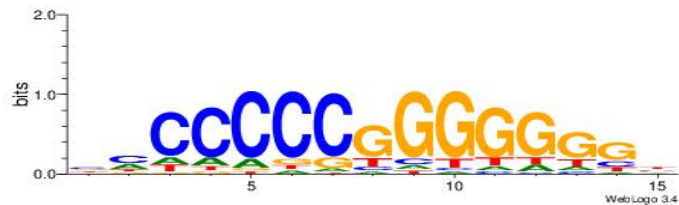
Consensus sequence: VCCCCCGGGGGRB



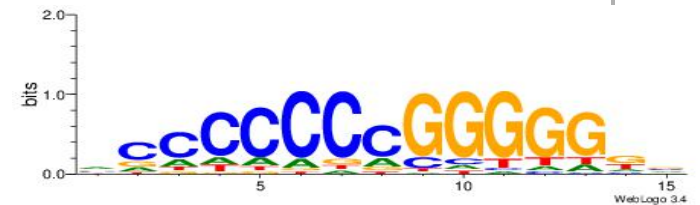
Motif ID: [UP00006](#)
 Motif name: Zic3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0213948

Alignment:
 BMCCCCCGGGGGGGB
 GSMCCYARGGKKKC

Original motif
 Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif
 Consensus sequence: VCCCCCGGGGGRB



Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary

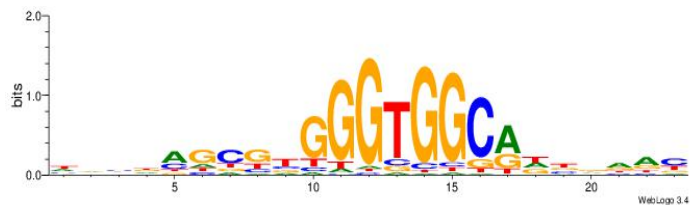
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0255241

Alignment:

BDDHVDKGCCACCCVCGCTDBVH
 -----GSMCCYARGGKKKC-

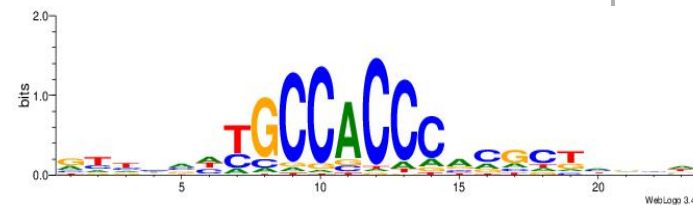
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



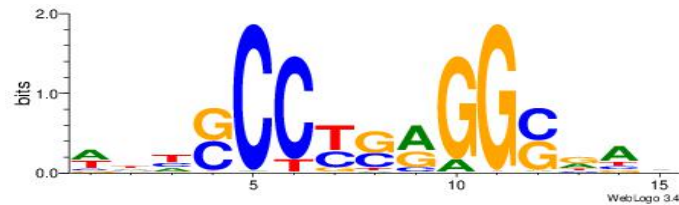
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0261399

Alignment:

WHHSCCYSRGGSDAD
GSMCCYARGGKKKC

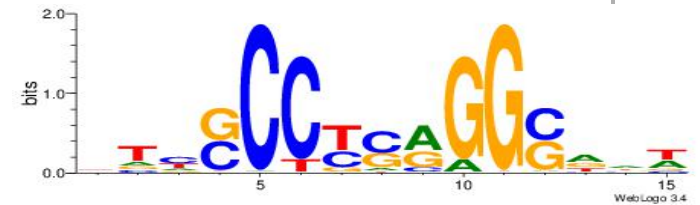
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



Motif ID:	UP00005
Motif name:	Tcfap2a_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0266201

Alignment:

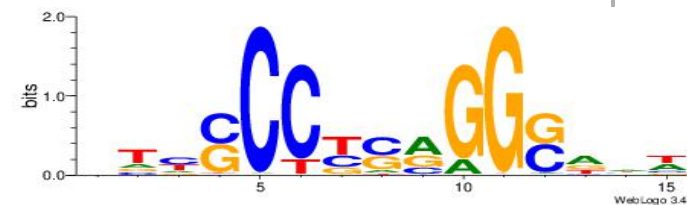
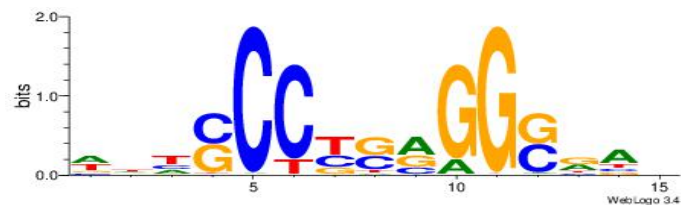
WDHSCCYSRGGSRAD
GSMCCYARGGKKKC

Original motif

Consensus sequence: WDHSCCYSRGGSRAD

Reverse complement motif

Consensus sequence: DTMSCKSMGGSHDW



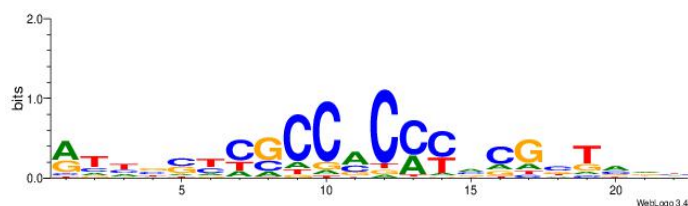
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 15
 Similarity score: 0.027503

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 -----GSMGCCYARGGKKKC

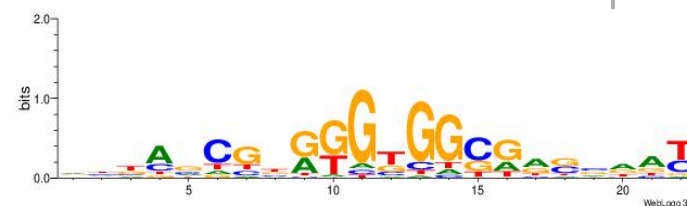
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00220](#)

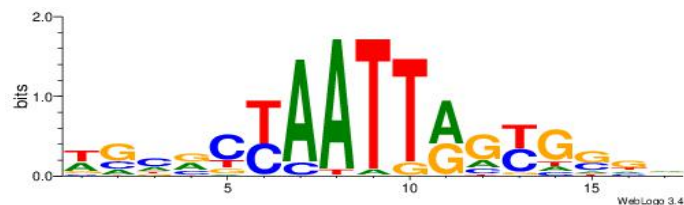
Motif name: Nkx1-1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0276935

Alignment:

WGHRCYAATTRGYGSDV
 -GYRYCCMTKGGYRSC-

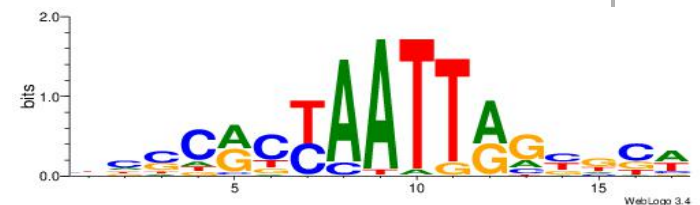
Original motif

Consensus sequence: WGHRCYAATTRGYGSDV



Reverse complement motif

Consensus sequence: BHSCMCKAATTMGMDCW

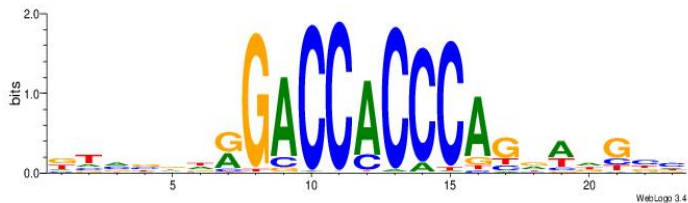


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15

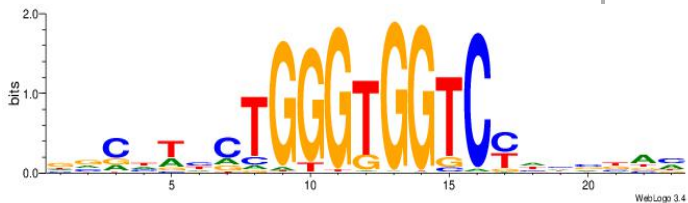
Similarity score: 0.0280481

Alignment:
DTVBD^{DR}GACCA^{CCC}AGDWDGBH
-----GSM^{CC}YARGGKKKC

Original motif
Consensus sequence: DTVBD^{DR}GACCA^{CCC}AGDWDGBH



Reverse complement motif
Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH

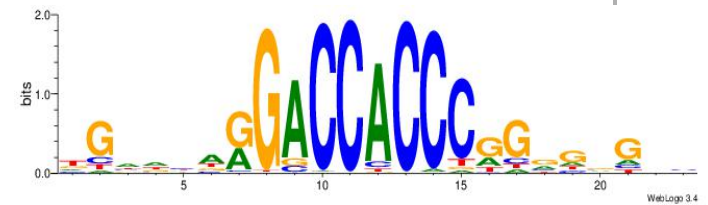
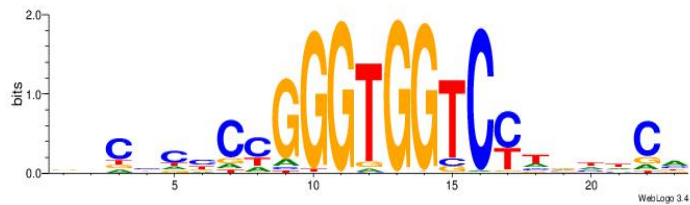


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 15
Similarity score: 0.0288797

Alignment:
HGDH^{VHK}GACCA^{CCC}GGBGBGDB
-----GSM^{CC}YARGGKKKC

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH

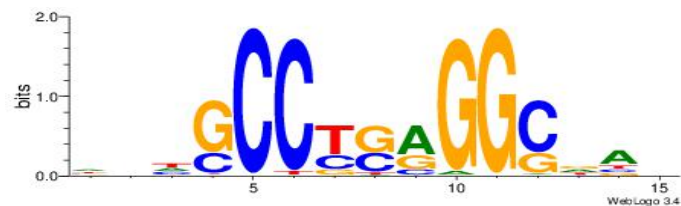
Reverse complement motif
Consensus sequence: HGDH^{VHK}GACCA^{CCC}GGBGBGDB



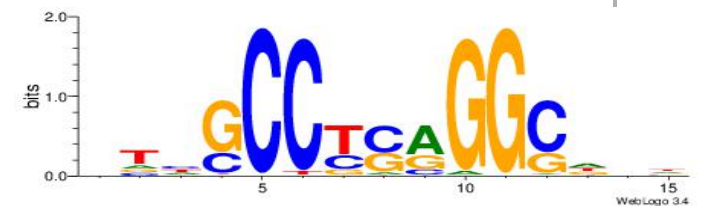
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.029693

Alignment:
 HHHGCCTSAGGCDAD
 GSMCCYARGGKKKC

Original motif
 Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif
 Consensus sequence: DTHGCCTSAGGCHHH



Dataset #: 2 **Motif ID: 14** **Motif name: ZEB1**

Original motif

Consensus sequence: CACCTD



Reverse complement motif

Consensus sequence: HAGGTG



Best Matches for Motif ID 14 (Highest to Lowest)

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:	4
Number of overlap:	6
Similarity score:	0

Alignment:

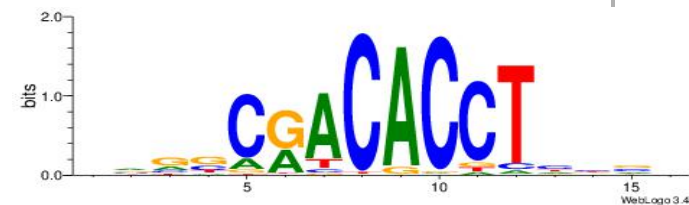
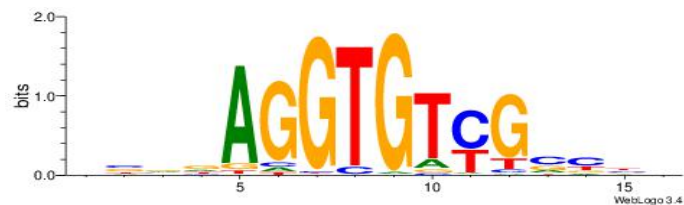
```
VVBVCKACACCTHVBV
-----CACCTD----
```

Original motif

Consensus sequence: VBV DAGGTGTYGVBBV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

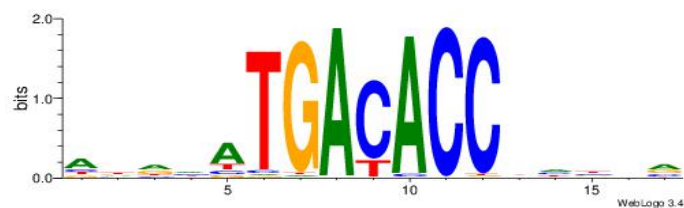


Motif ID: [UP00199](#)
 Motif name: Six4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.00433068

Alignment:
 BBVHVGGTGTCTHDDT
 ---HAGGTG-----

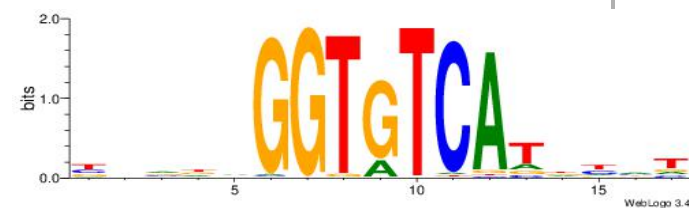
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTCTHDDT



Motif ID: [UP00068](#)

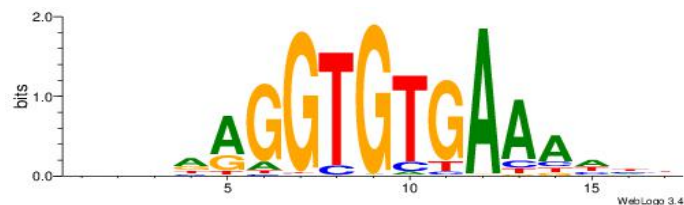
Motif name:	Eomes_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	6
Similarity score:	0.00524081

Alignment:

```
HHHTTTCACACCTDHBV
-----CACCTD----
```

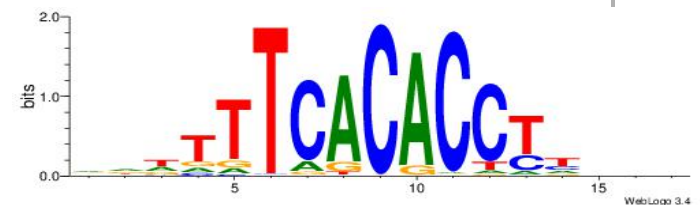
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



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: 0.00911301

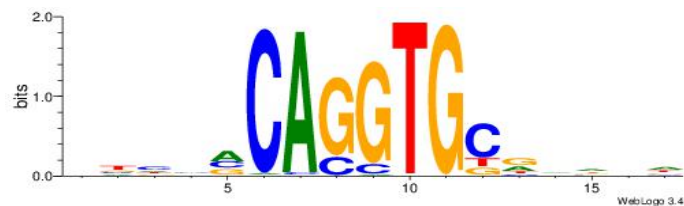
Alignment:

VBHHVCAGGTGCDVDHD

-----HAGGTG-----

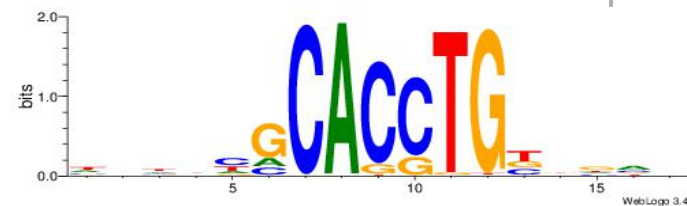
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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: 9
Number of overlap: 6
Similarity score: 0.0233556

Alignment:

BDDRVGACCACCHBDVB

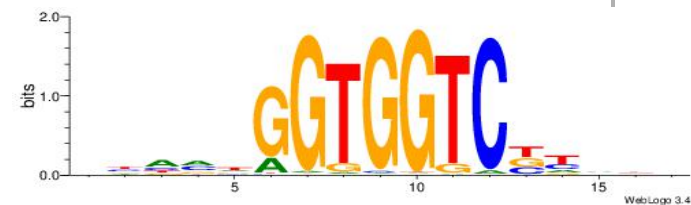
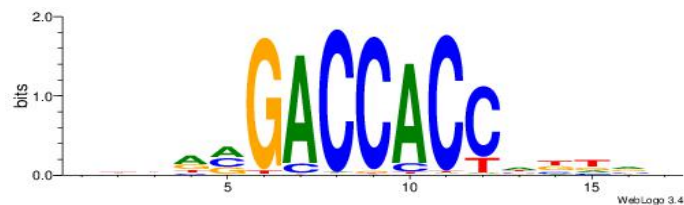
-----CACCTD---

Original motif

Consensus sequence: BDDRVGACCACCHBDVB

Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



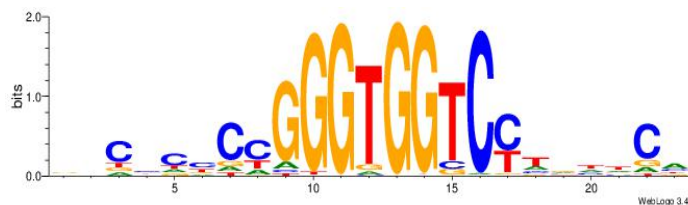
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 11
 Number of overlap: 6
 Similarity score: 0.0233928

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -----HAGGTG-----

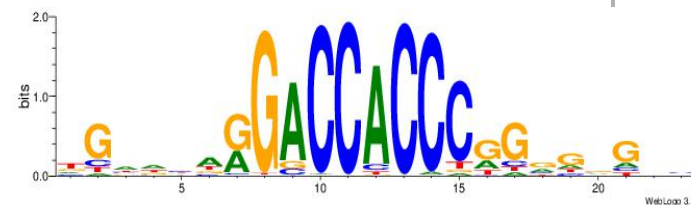
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



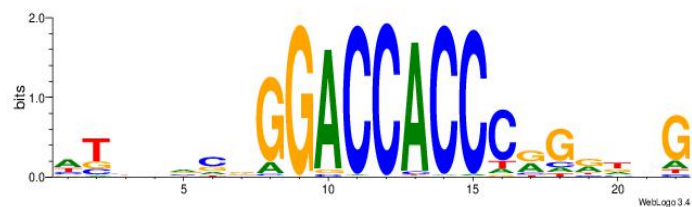
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12
 Number of overlap: 6
 Similarity score: 0.0254338

Alignment:

HTBVVVDGGACCACCCRGRDBG
 -----CACCTD-----

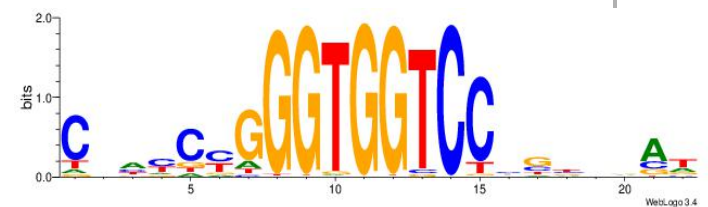
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCCHVBVBAH

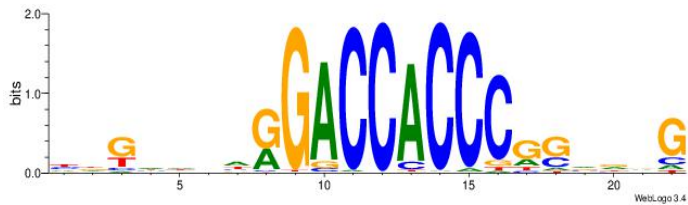


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 12

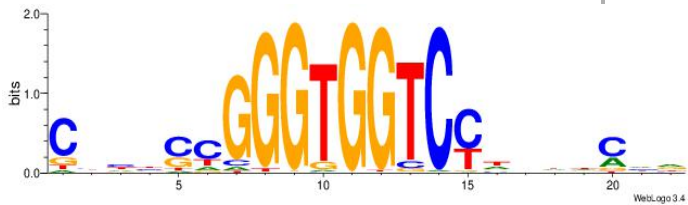
Number of overlap: 6
Similarity score: 0.0290143

Alignment:
HDGHHBHRGACCACCCGSVDVG
-----CACCTD-----

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



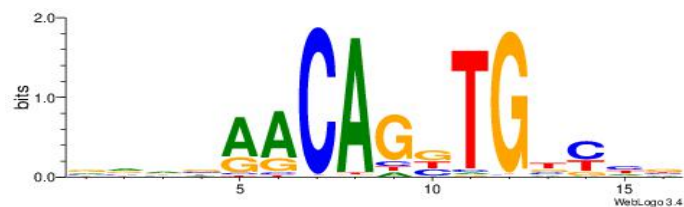
Motif ID: [UP00036](#)
Motif name: Myf6_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 6
Similarity score: 0.0309673

Alignment:
VVDBAACAGBTGBYHB
-----HAGGTG-----

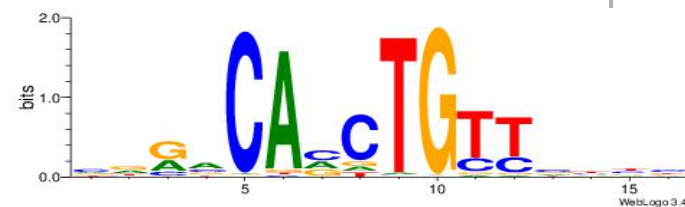
Original motif

Reverse complement motif

Consensus sequence: VVDBAACAGBTGBYHB



Consensus sequence: BDKVCABCTGTTBDBV



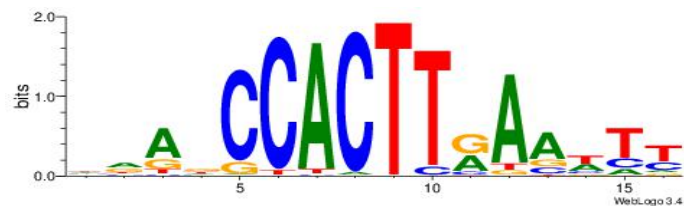
Motif ID: [UP00249](#)
Motif name: Nkx2-5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.031502

Alignment:

```
HDADCCACTTTRAAWTT
-----CACCTD-----
```

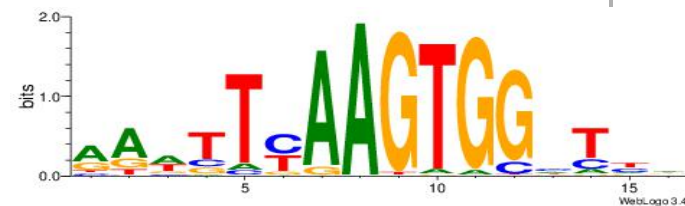
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

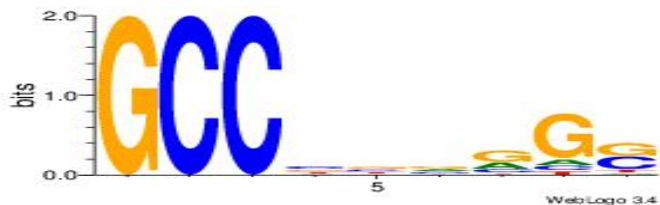
Consensus sequence: AAWTTMAAGTGGHTDH



Dataset #: 2 **Motif ID: 15** **Motif name: TFAP2A**

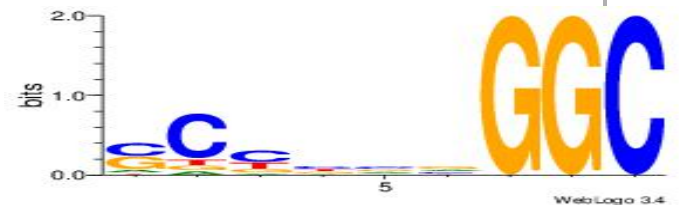
Original motif

Consensus sequence: GCCBBVRGS



Reverse complement motif

Consensus sequence: SCMVBGGC



Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID:	UP00010
Motif name:	Tcfap2b_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0115546

Alignment:

HHKGCCYSRGGCWAD

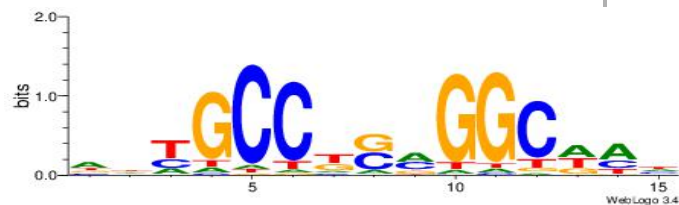
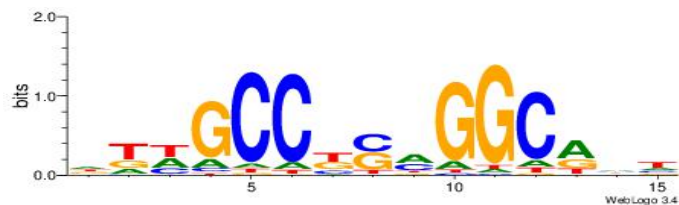
---GCCBBVRGS---

Original motif

Consensus sequence: DTWGCKSMGGCRHH

Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

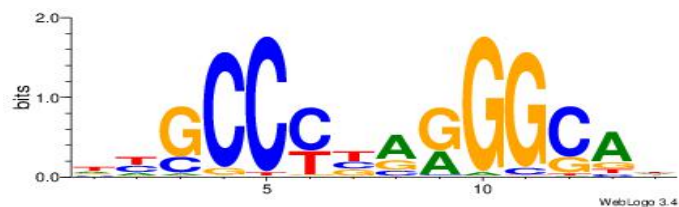


Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 9
 Similarity score: 0.0150447

Alignment:
 DYGCCYBARGGCAH
 --GCCBBVRGS---

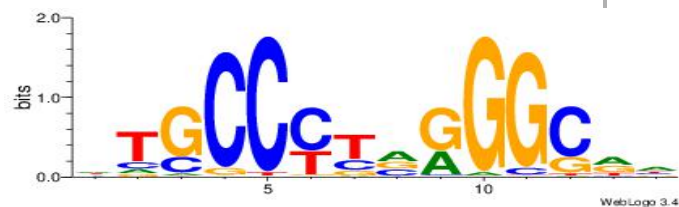
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



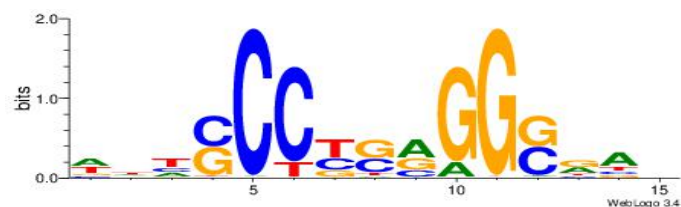
Motif ID: [UP00005](#)

Motif name: Tcfap2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0151527

Alignment:
 WDHSCCYSRGGSRAD
 ---GCCBBVRGS---

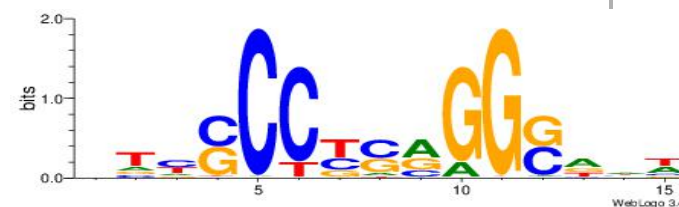
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



Motif ID: [UP00087](#)
 Motif name: Tcfap2c_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 9

Similarity score: 0.016909

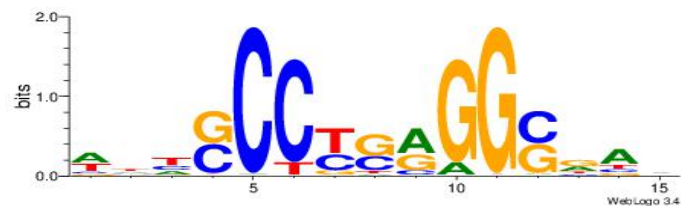
Alignment:

WHHSCCYSRGGSDAD

---GCCBBVRGS---

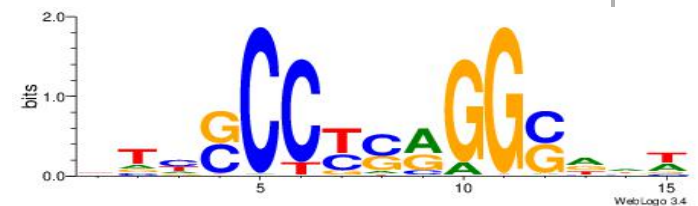
Original motif

Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif

Consensus sequence: DTHSCCKSMGGSHHW



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

Alignment:

BHGCCCDAGGGCWD

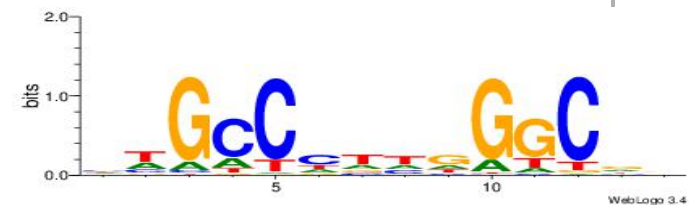
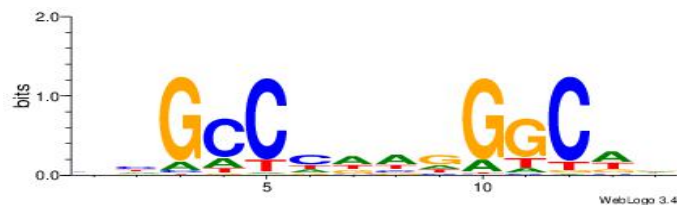
--GCCBBVRGS---

Original motif

Consensus sequence: BHGCCCDAGGGCWD

Reverse complement motif

Consensus sequence: HWGCCCTDGGGCDB



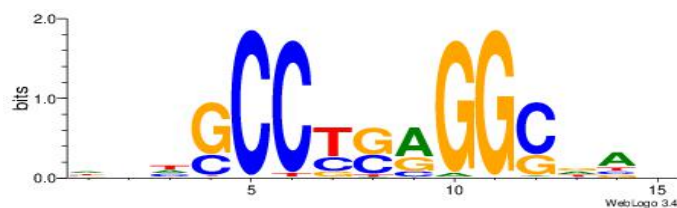
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0198854

Alignment:

HHHGCCTSAGGCDAD
 ---GCCBBVRGS---

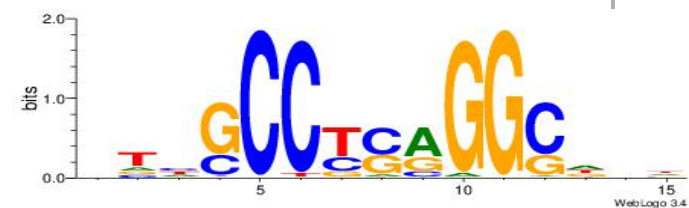
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



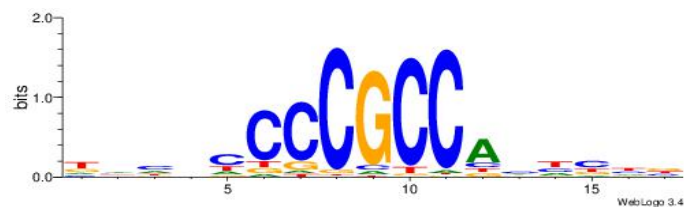
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 9
 Similarity score: 0.0203681

Alignment:

BHBHDTGGCGGGBDHD
 SCMVBBGGC-----

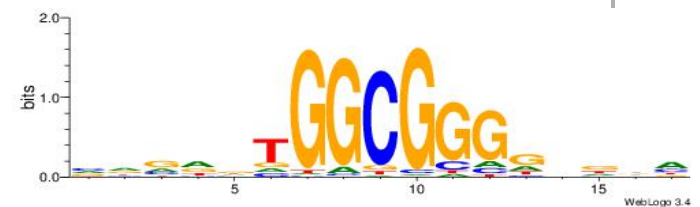
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

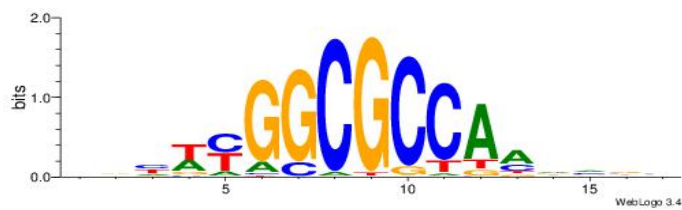


Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1

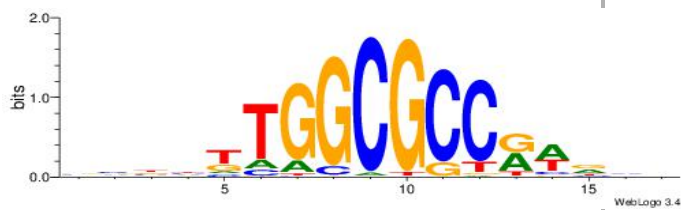
Number of overlap: 9
Similarity score: 0.0217064

Alignment:
BBBDYTGGCGCCKWDBD
SCMVBBGGC-----

Original motif
Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif
Consensus sequence: BBBDYTGGCGCCKWDBD



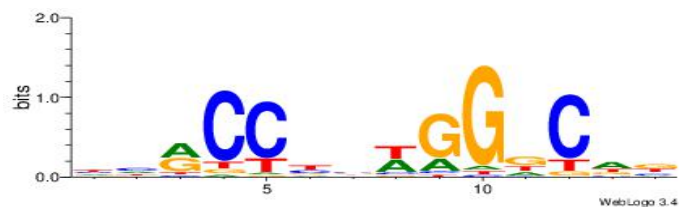
Motif ID: [UP00005](#)
Motif name: Tcfap2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0234775

Alignment:
HHRCCBBWGGDCDB
--GCCBBVRGS---

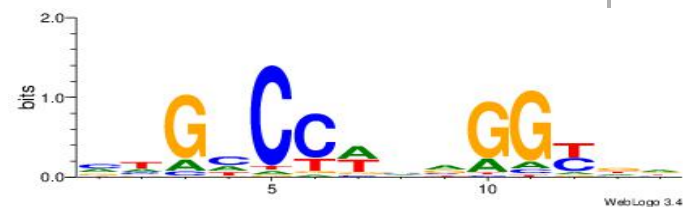
Original motif

Reverse complement motif

Consensus sequence: HHRCCBBWGGDCDB



Consensus sequence: BDGHCCWBVGKGDH



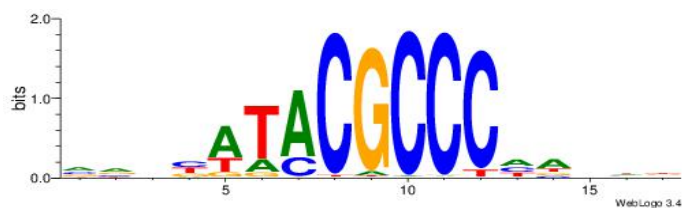
Motif ID: [UP00093](#)
Motif name: Klf7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.026642

Alignment:

```
VVDBATACGCCCHAHHD  
-----GCCBBVRGS
```

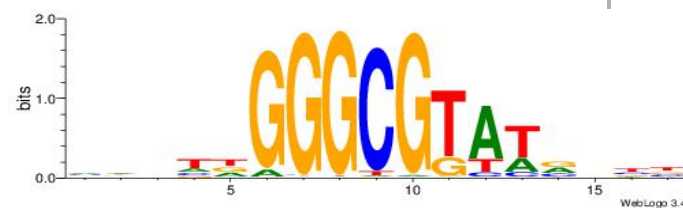
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

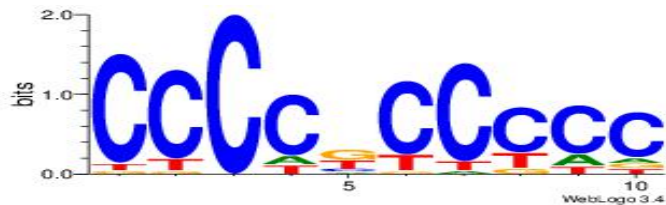
Consensus sequence: DHDTHGGGCGTATBHBB



Dataset #: 2 **Motif ID: 16** **Motif name: SP1**

Original motif

Consensus sequence: CCCCKCCCCC



Reverse complement motif

Consensus sequence: GGGGGYGGGG



Best Matches for Motif ID 16 (Highest to Lowest)

Motif ID: [UP00021](#)
Motif name: Zfp281_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0231018

Alignment:

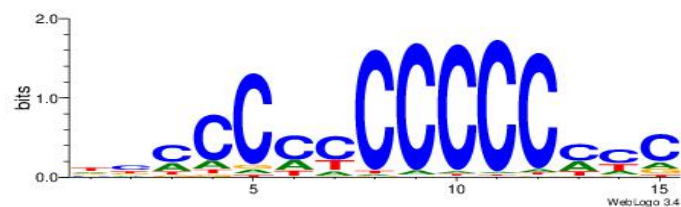
DBCCCCCCCCCMYC
--CCCCKCCCCC---

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

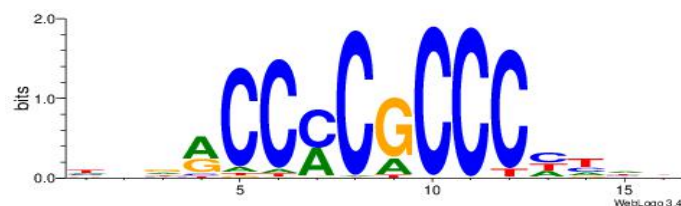


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0303207

Alignment:
 HBDRCMCGCCCHHD
 ----CCCCKCCCC--

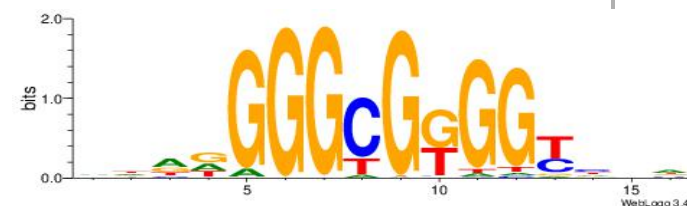
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00033](#)

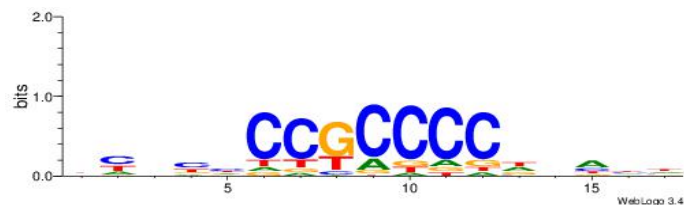
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0323007

Alignment:

HHHHDGGGGCGGDBHDV
 ----GGGGGYGGG---

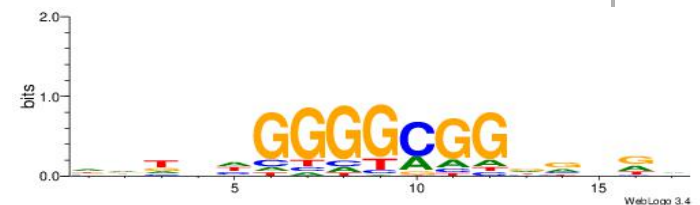
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

Similarity score: 0.0340973

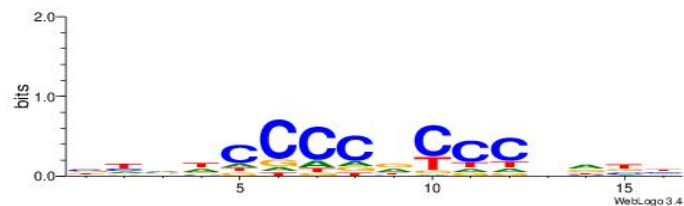
Alignment:

HVDVGGGHGGGGDBHB

--GGGGGYGGGG----

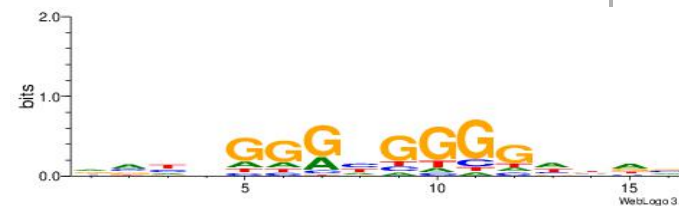
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH

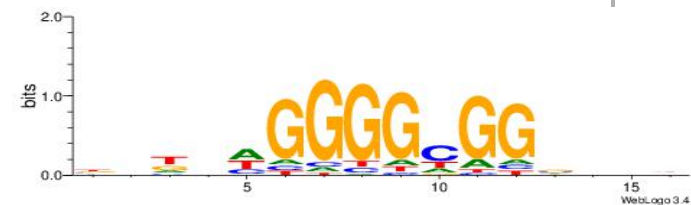
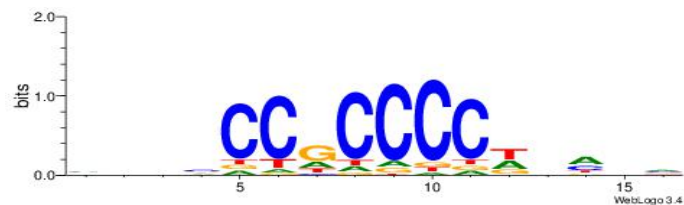
----GGGGGYGGGG--

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



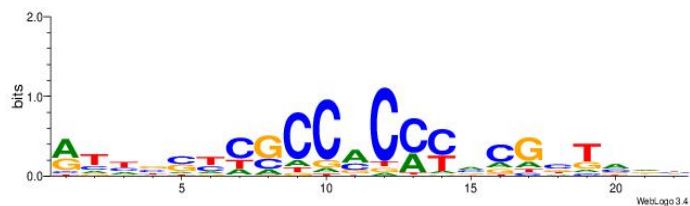
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0390437

Alignment:

HDBABCGBKRGYGGCGMSBHAK
 -----GGGGGYGGGG-----

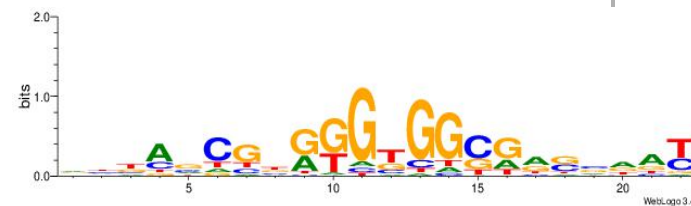
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



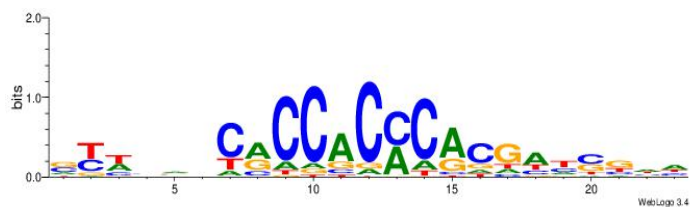
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0393358

Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
 -----GGGGGYGGGG-----

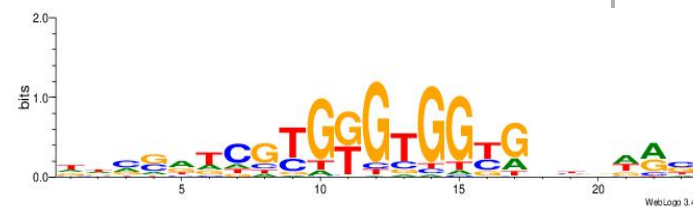
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

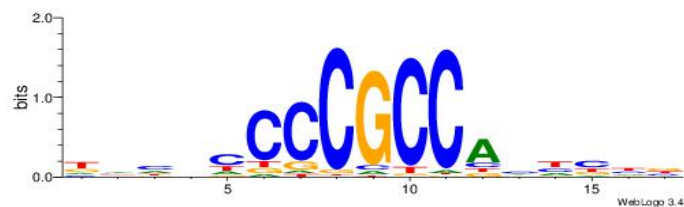
Number of overlap: 10
Similarity score: 0.0413863

Alignment:

DHHBCCCCGCCAHHBHB
----CCCCKCCCC--

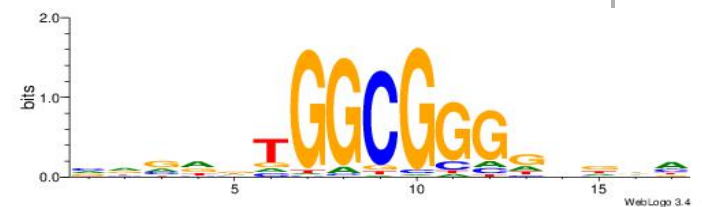
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0418947

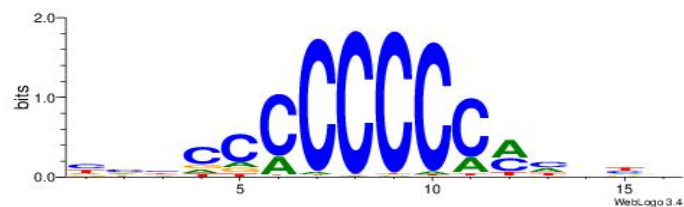
Alignment:

HVBCCCCCCCCMHHHB
---CCCCKCCCC--

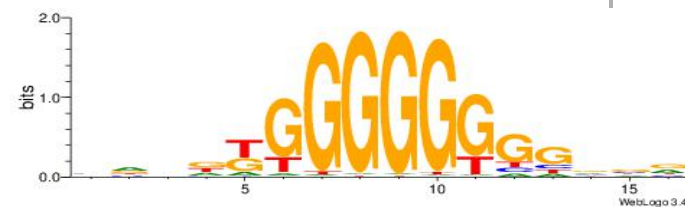
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



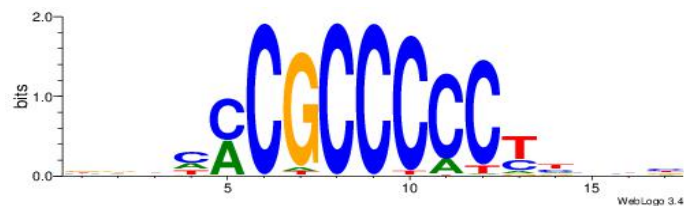
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0420708

Alignment:

BDHHMCGCCCCCTHVBB
--CCCCKCCCC-----

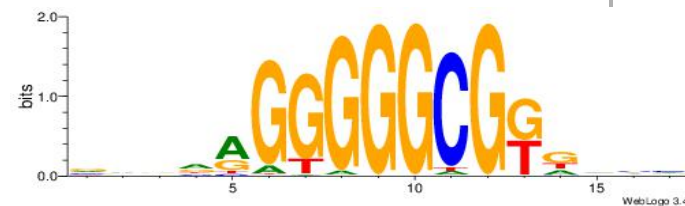
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGGCGRDHHB



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

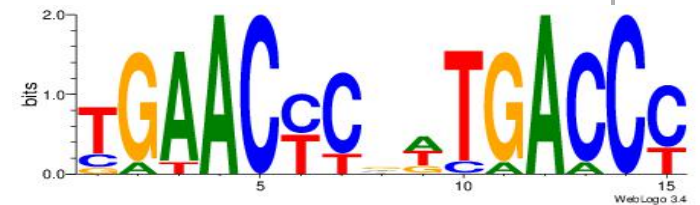
Original motif

Consensus sequence: GGGTCAWBGRGTTCA



Reverse complement motif

Consensus sequence: TGAACKCBWTGACCC



Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID:	UP00037
Motif name:	Zfp105_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:	15
Similarity score:	0.0631638

Alignment:

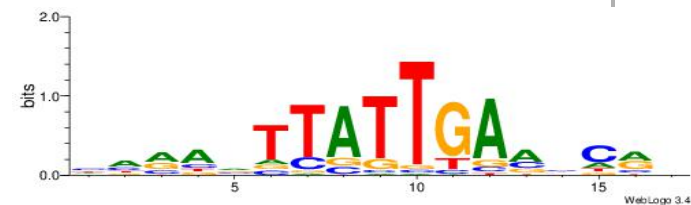
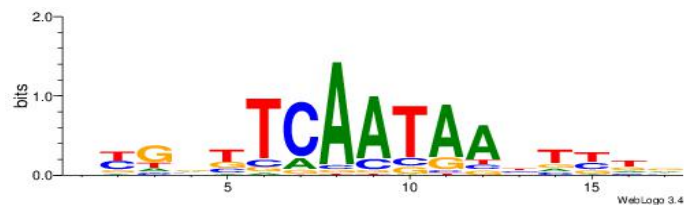
```
DYGVKTCAATAABTYDD
--GGGTCAWBGRGTTCA
```

Original motif

Consensus sequence: DYGVKTCAATAABTYDD

Reverse complement motif

Consensus sequence: HDMAVTTATTGARVCMH



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: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0639668

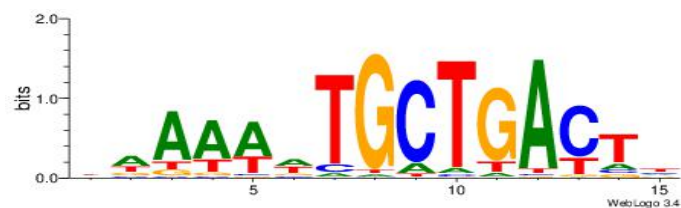
Alignment:

DWAAAWTGCTGACTH

TGAACKCBWTGACCC

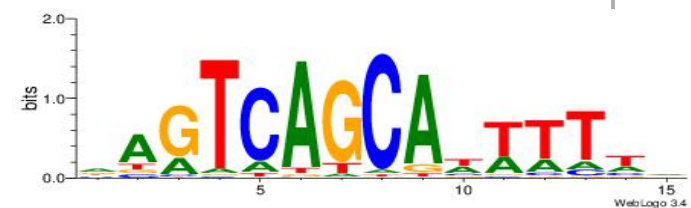
Original motif

Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



Motif ID: [UP00538](#)

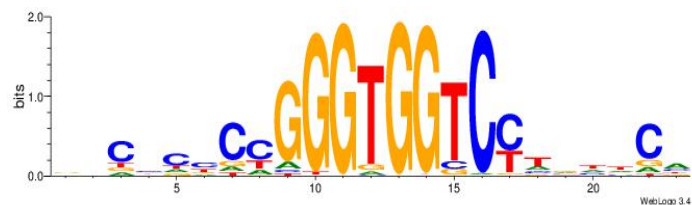
Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 15
 Similarity score: 0.0682816

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -----GGGTCAWBGRGTTCA

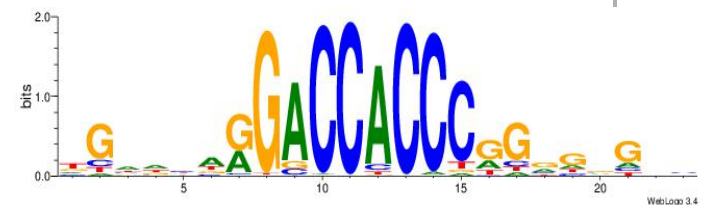
Original motif

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: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15

Similarity score: 0.06995

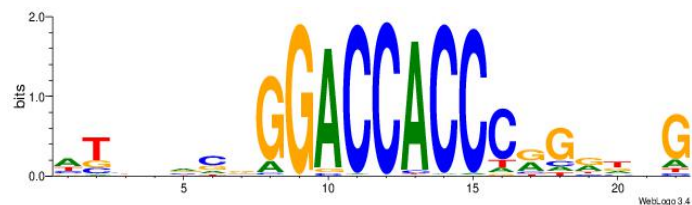
Alignment:

HTBVVVDGGACCACCCRGRDBG

-TGAACKCBWTGACCC-----

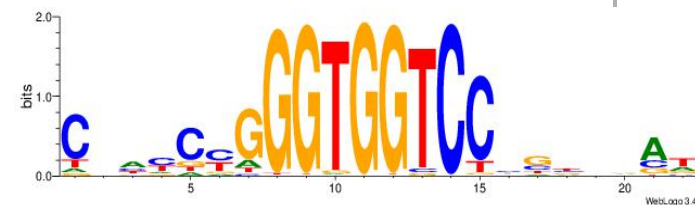
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



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: 15
Similarity score: 0.0711699

Alignment:

DVMHHDHKGACCCTCCTSVCBH

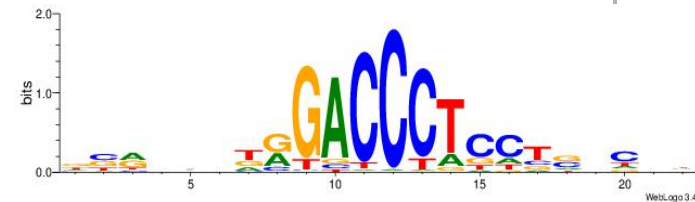
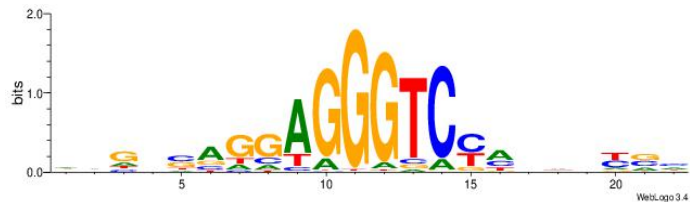
-----TGAACKCBWTGACCC

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

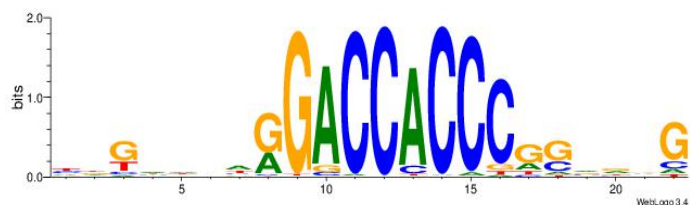


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.072162

Alignment:
 CVHBSCGGGTGGTCMHVHHCDH
 -----GGGTCAWBGRGTTCA-

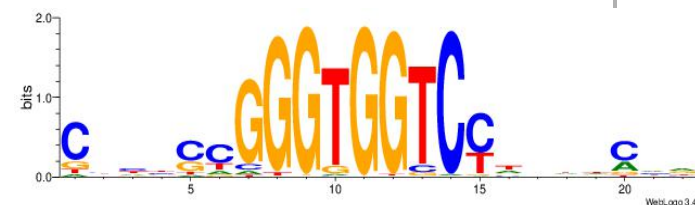
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00045](#)

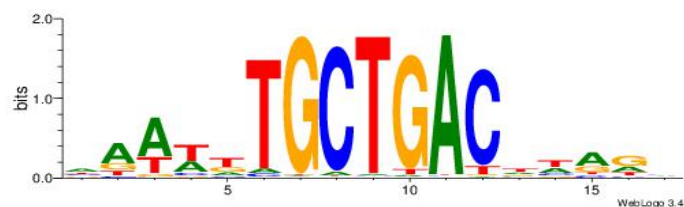
Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.562034

Alignment:

-HAAWDTGCTGACDWARH
 TGAACKCBWTGACCC---

Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH

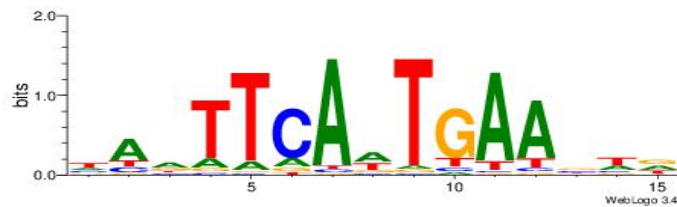


Motif ID: [UP00012](#)
 Motif name: Bbx_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14

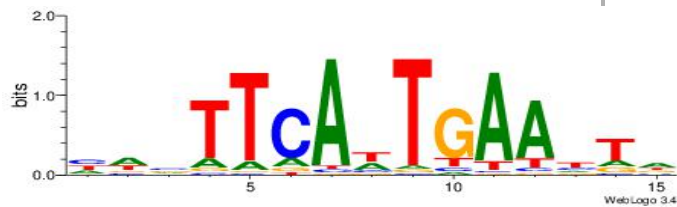
Similarity score: 0.562788

Alignment:
HWBTTCAWTGAADTH-
-GGGTCAWBGRGTTCA

Original motif
Consensus sequence: HADTTCAWTGAABWD



Reverse complement motif
Consensus sequence: HWBTTCAWTGAADTH

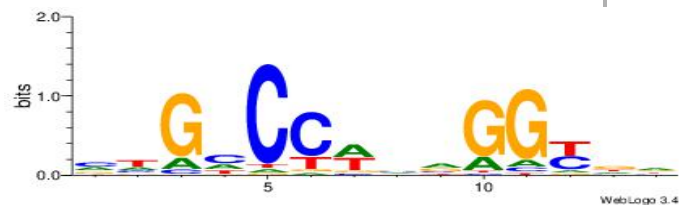
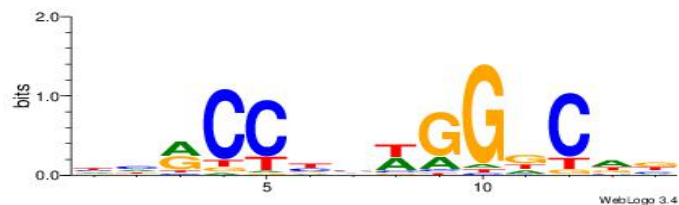


Motif ID: [UP00005](#)
Motif name: Tcfap2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.56549

Alignment:
-HHRCCBBWGGDCDB
GGGTCAWBGRGTTCA-

Original motif
Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif
Consensus sequence: BDGHCCWBVGKGDH



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: 14
 Similarity score: 0.565777

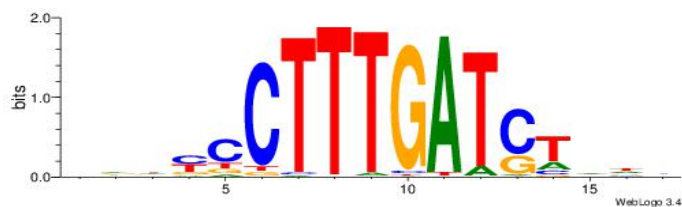
Alignment:

```

VDDAGATCAAAGGKDDD-
---GGGTCAWBGRGTTCA
  
```

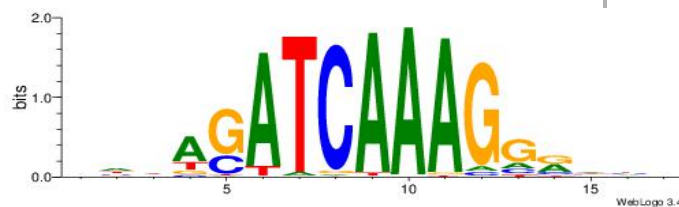
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

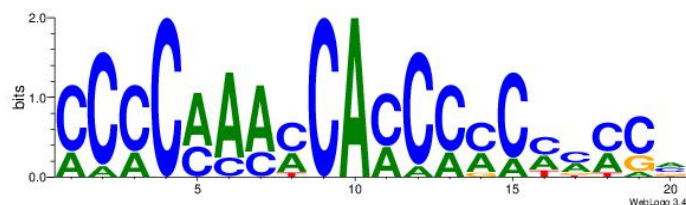
Consensus sequence: VDDAGATCAAAGKDDD



Dataset #: 2 Motif ID: 18 Motif name: RREB1

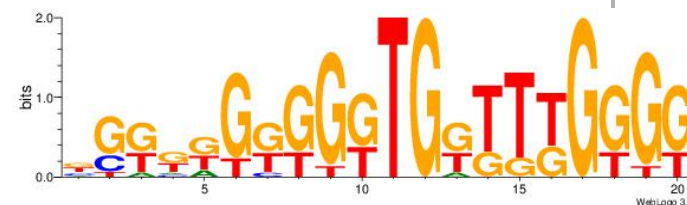
Original motif

Consensus sequence: CCCMAAMCAMCCMCMMMC



Reverse complement motif

Consensus sequence: BGRRRGRGGRTGRTTYGGG



Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID:	UP00540
Motif name:	Gli3_v015681_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:	20
Similarity score:	0.0443369

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT

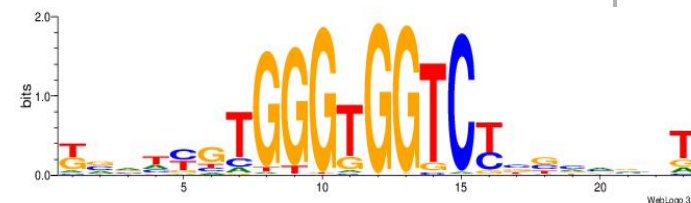
BGRRRGRGGRTGRTTYGGG---

Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM

Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



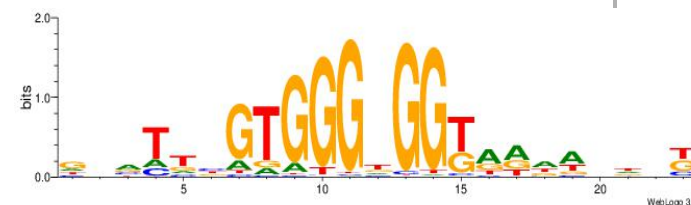
Alignment:

```
MHHHWHYTMCCCHCCACVAABVH
--CCCCMAAMCAMCCMCMMMCVC-
```

Consensus sequence: MHHWHYTMCHCCACVAABVH



Consensus sequence: DVTTVGTGGGHGGYAMHWHHHY



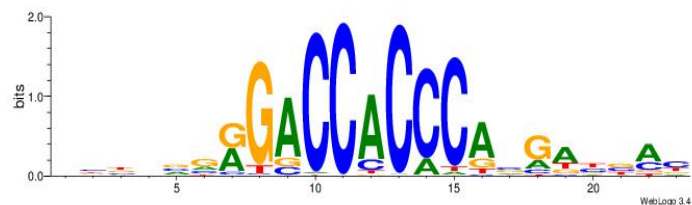
Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0546172

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
 -BGRRRGRGGRTGRTTYGGGG--

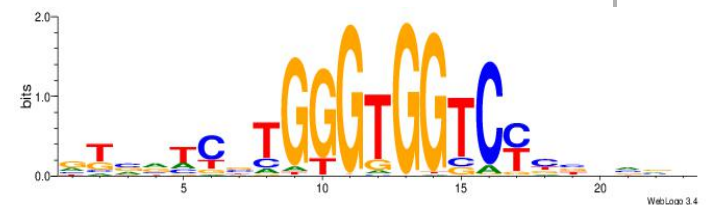
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

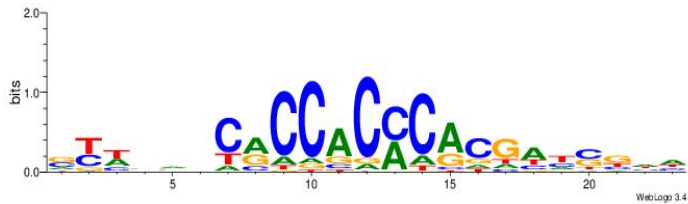


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20

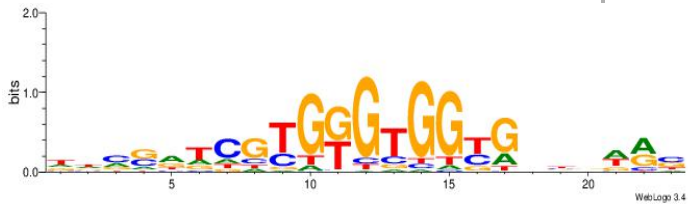
Similarity score: 0.055783

Alignment:
VYWVVHCRCCACMCACGAHSBHH
-CCCCMAAMCAMCCMCMMMCVCV--

Original motif
Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

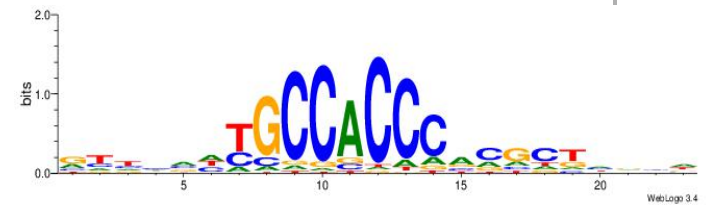
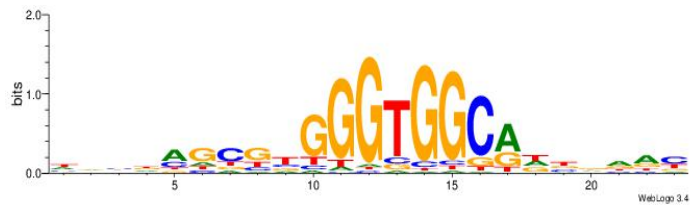


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.057969

Alignment:
HVBDAGCGBGGGTGGCRDBDDDB
--BGRRRGRGGRTGRTTYGGGG-

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



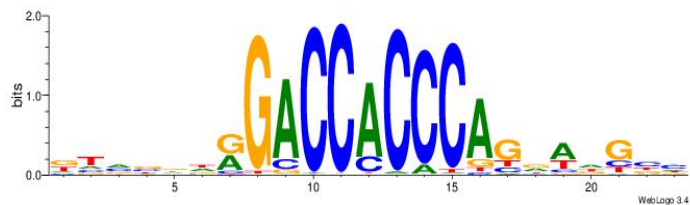
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0595101

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 --CCCCMAAMCAMCCMCMMMCVC--

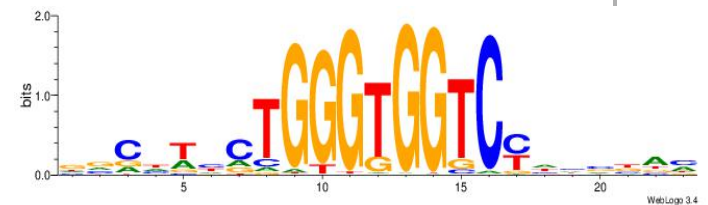
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



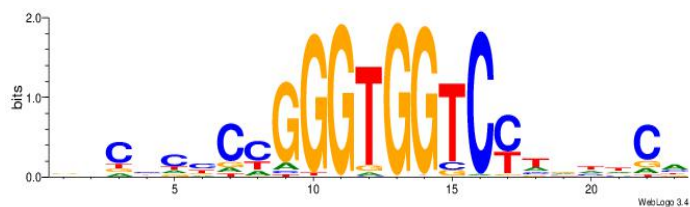
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0622003

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -BGRRRGRGGRTGRTTYGGGG--

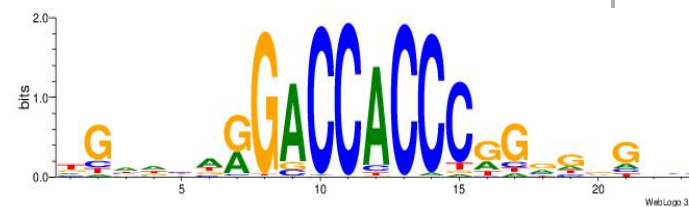
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

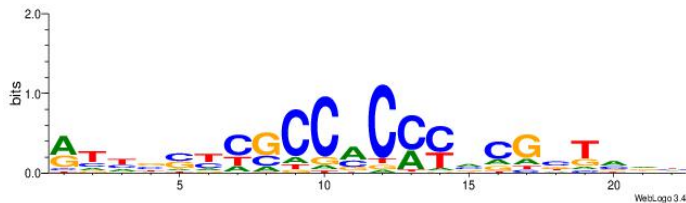


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2

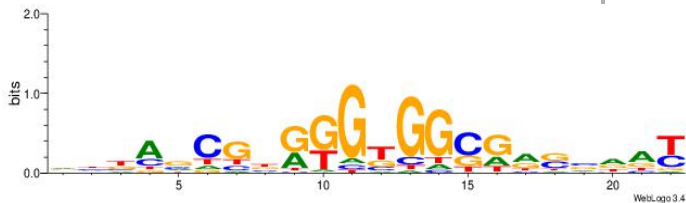
Number of overlap: 20
Similarity score: 0.0626951

Alignment:
RTHBSYCGCCMCMYVCGBTVDH
-CCCCMAAMCAMCCMCMMMCVCV-

Original motif
Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



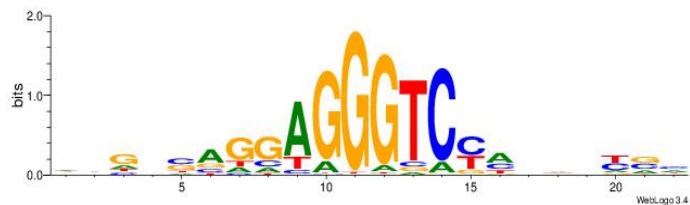
Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0631901

Alignment:
DVMHHDHKGACCCTCCTSVCBH
CCCCMAAMCAMCCMCMMMCVCV--

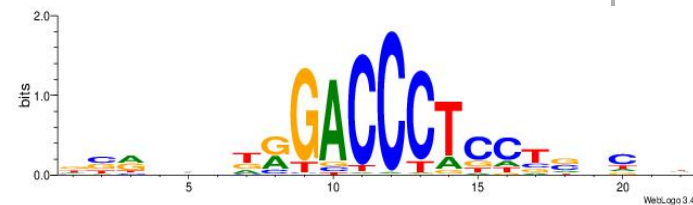
Original motif

Reverse complement motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



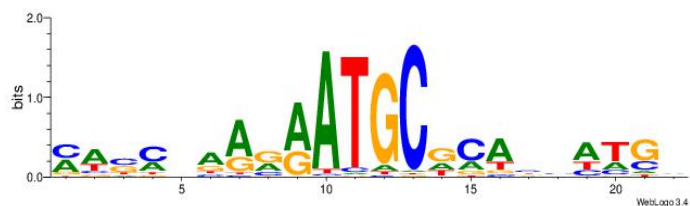
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.0673848

Alignment:

```
DCATDBTGHGCATKMTTBRSWR  
--BGRRRGRGGRTGRTTYGGGG
```

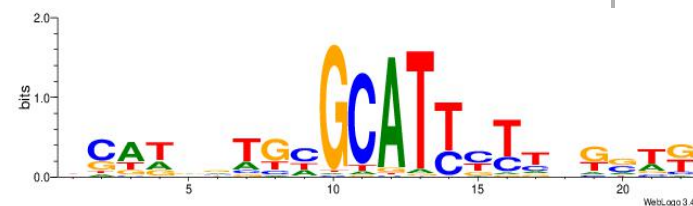
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

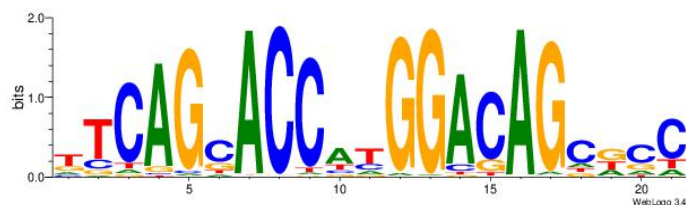
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

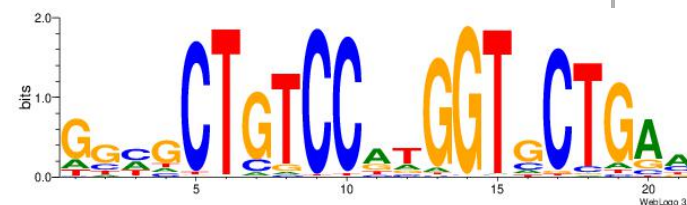
Original motif

Consensus sequence: TTCAGCACCATGGACAGCKCC



Reverse complement motif

Consensus sequence: GGYGCTGTCCATGGTGCTGAA



Best Matches for Motif ID 19 (Highest to Lowest)

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:	Forward
Position number:	3
Number of overlap:	21
Similarity score:	0.0699178

Alignment:

BBBDVVRGACCACCCAVGABBAB

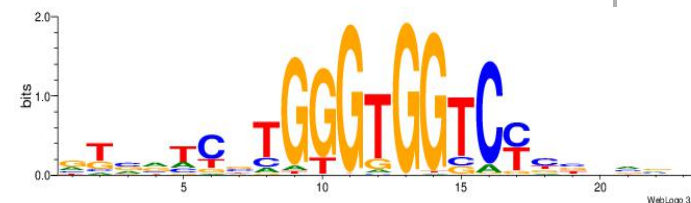
--TTCAGCACCATGGACAGCKCC

Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Alignment:

```
VMYDHDGMCCHCCKBGVVAAVH  
GGYGCTGTCCATGGTGCTGAA-
```

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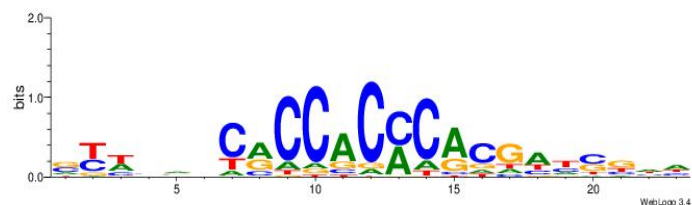
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.0740652

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -TTCAGCACCATGGACAGCKCC-

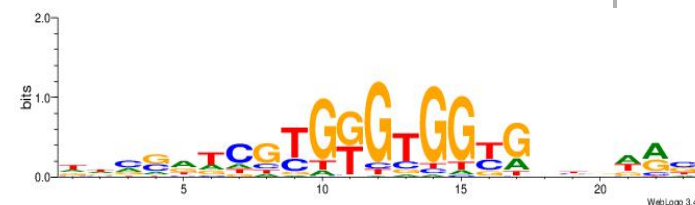
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



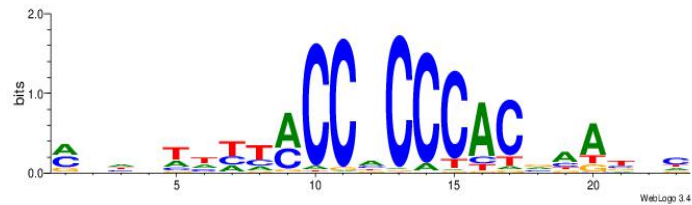
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0750152

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
--TTCAGCACCATGGACAGCKCC

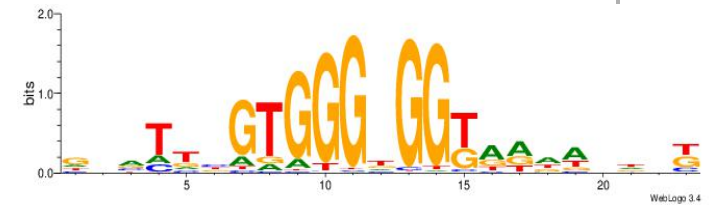
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Motif ID:	UP00538
Motif name:	Gli1_v016060_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:	21
Similarity score:	0.0751449

Alignment:

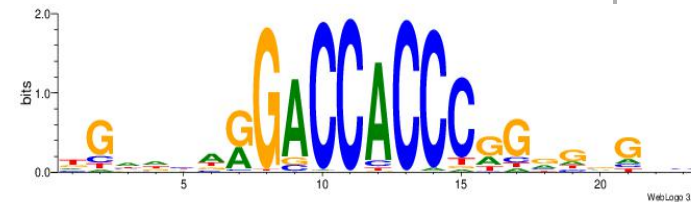
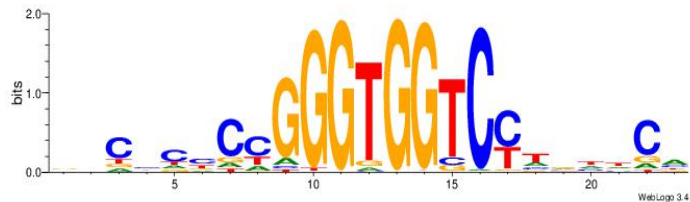
BHCBCBCCGGGTGGTCYHVHDCH
GGYGCTGTCCATGGTGCTGAA--

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

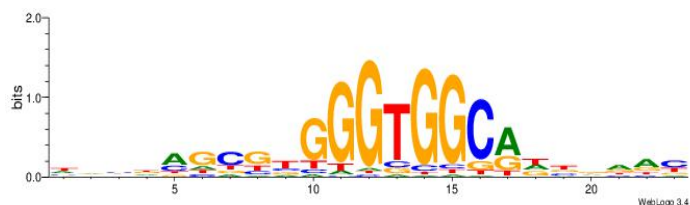
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



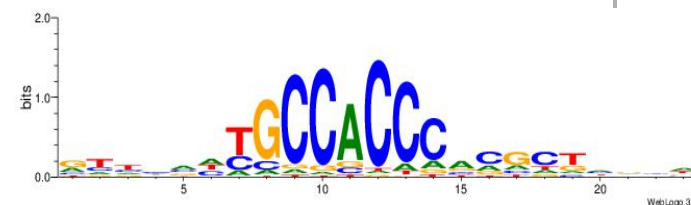
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.075832

Alignment:
 BDDHVDKGCCACCCVCGCTDBVH
 -TTCAGCACCATGGACAGCKCC-

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00539](#)

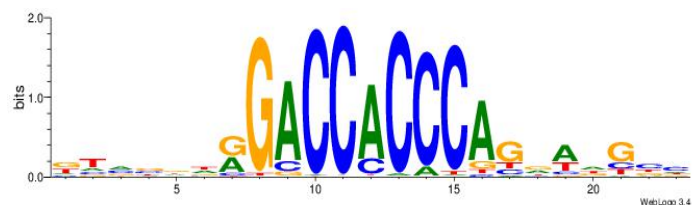
Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0773446

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 --TTCAGCACCATGGACAGCKCC

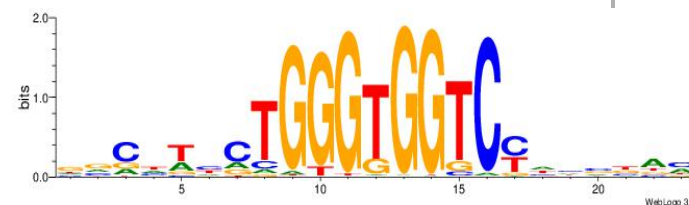
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAA



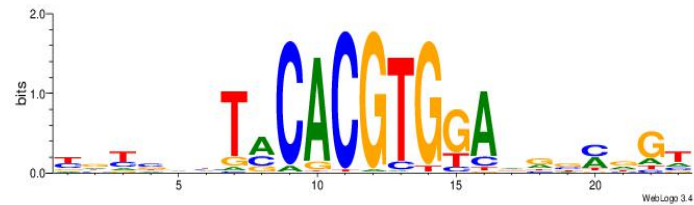
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 21
 Similarity score: 0.0775367

Alignment:

YDYBDHTMCACGTGGADDBMDGT
--TTCAGCACCATGGACAGCKCC

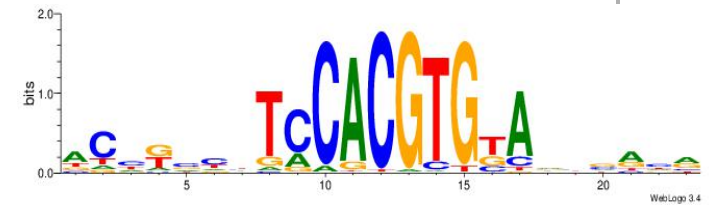
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



Motif ID:	UP00528
Motif name:	Foxm1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.077977

Alignment:

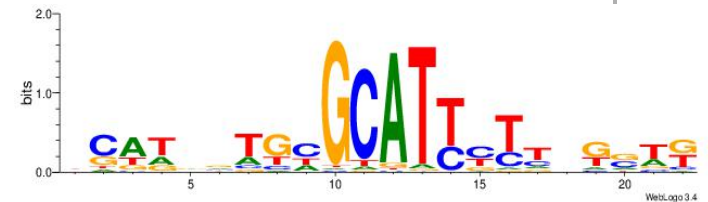
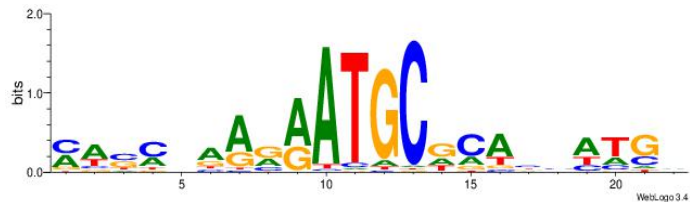
DCATDBTGHGCATKMTTBRSWR
-GGYGCTGTCCATGGTGCTGAA

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR

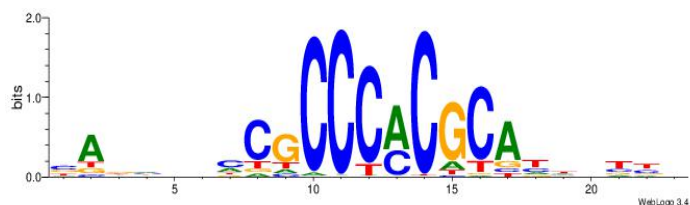


Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0785969

Alignment:
 BADHBDHCGCCCMCGCAHHDBBV
 --GGYGCTGTCCATGGTGCTGAA

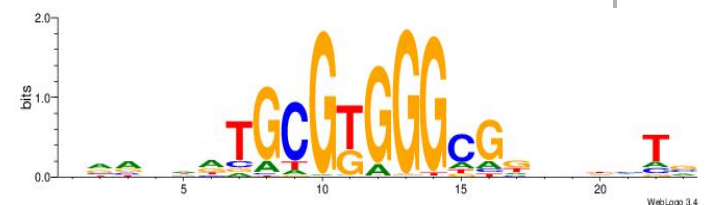
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

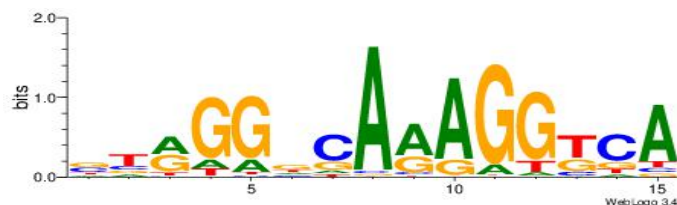
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



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

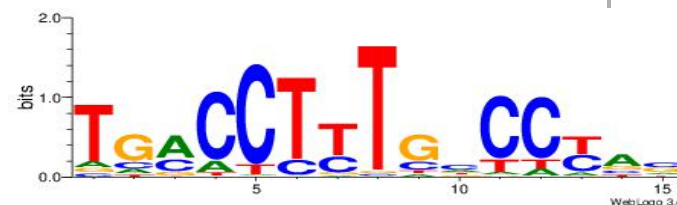
Original motif

Consensus sequence: BTRGGDCARAGGKCA



Reverse complement motif

Consensus sequence: TGRCCTKTGHCKAB



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:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0304954

Alignment:

VDDAGATCAAAGGKDDD

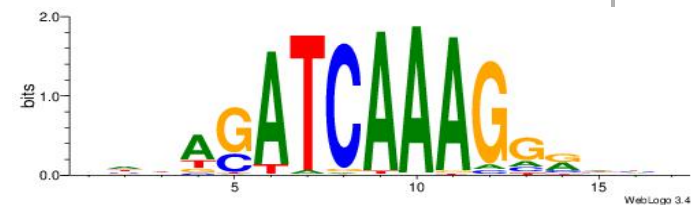
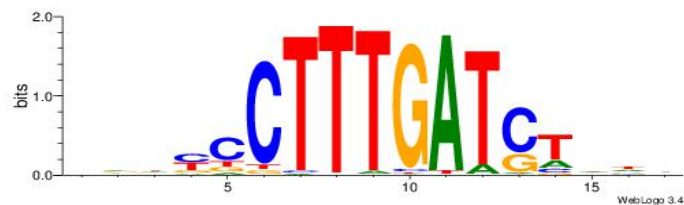
-BTRGGDCARAGGKCA-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

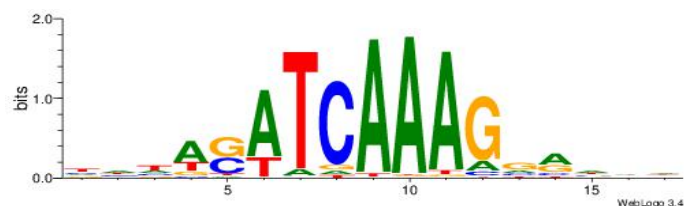


Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0319475

Alignment:
 HHHASATCAAAGVRHHH
 -BTRGGDCARAGGKCA-

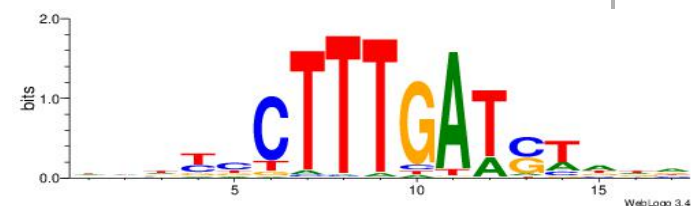
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00054](#)

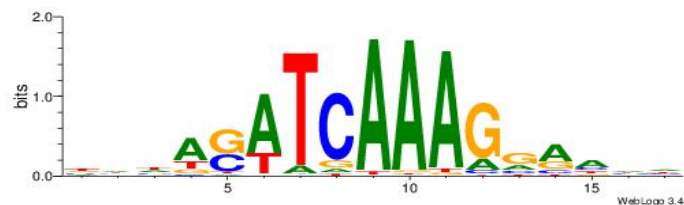
Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.032779

Alignment:

BHHASATCAAAGGAHHH
 -BTRGGDCARAGGKCA-

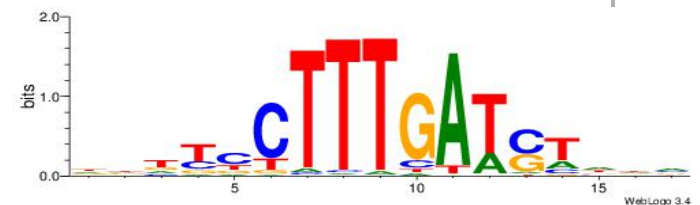
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV

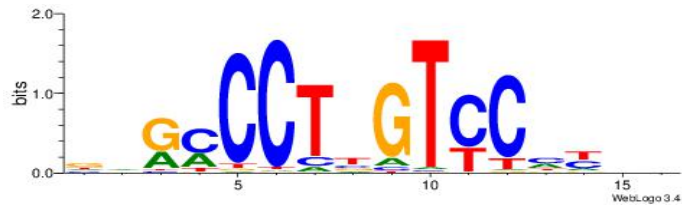


Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15

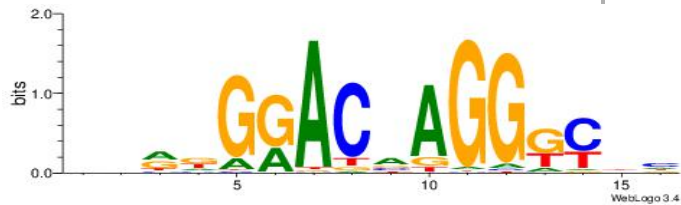
Similarity score: 0.0334185

Alignment:
VHMDGGACVAGGRCDH
BTRGGDCARAGGKCA-

Original motif
Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif
Consensus sequence: VHMDGGACVAGGRCDH

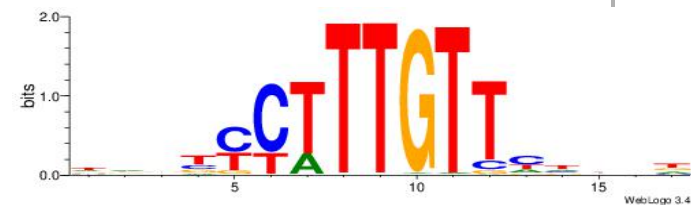
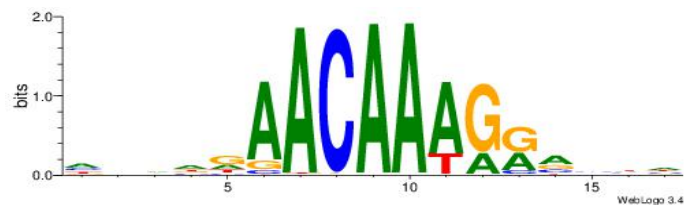


Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0352539

Alignment:
HBDDDAACAAAGRVBHH
-BTRGGDCARAGGKCA-

Original motif
Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif
Consensus sequence: HHBBMCTTTGTTHDDBH



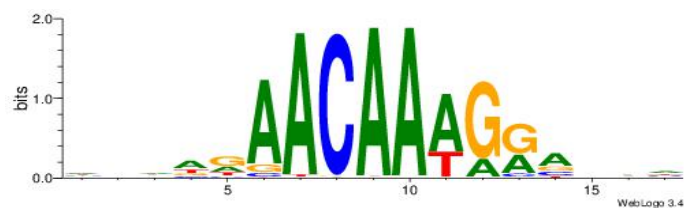
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0358782

Alignment:

HBDDRAACAAAGRABHH
 -BTRGGDCARAGGKCA-

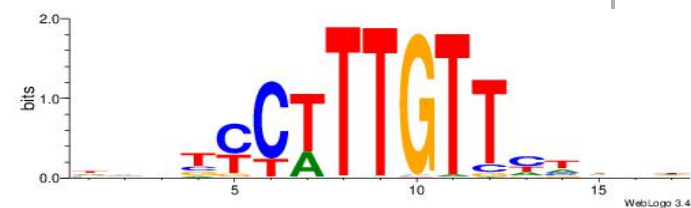
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



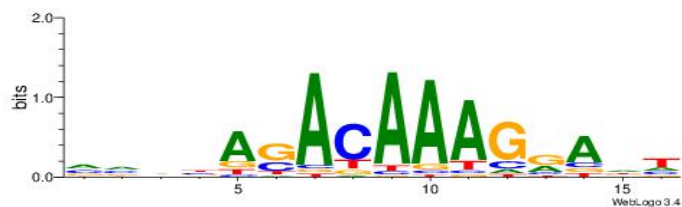
Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0374729

Alignment:

HDTMCTTTGTSTVDBB
 TGRCCCTKGHCCKAB-

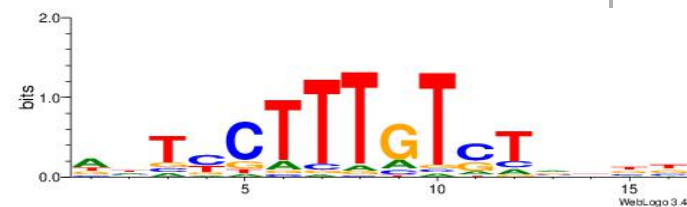
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB

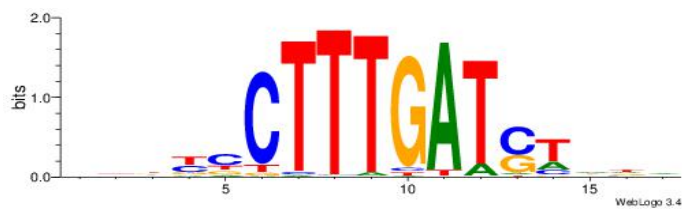


Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2

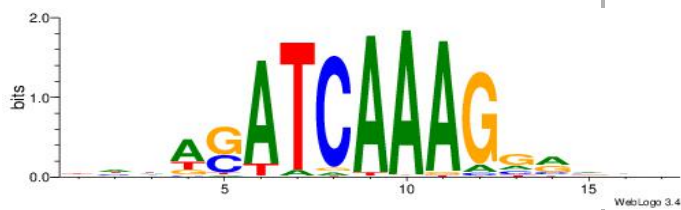
Number of overlap: 15
Similarity score: 0.0379757

Alignment:
BDDASATCAAAGGMDDD
-BTRGGDCARAGGKCA-

Original motif
Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif
Consensus sequence: BDDASATCAAAGGMDDD

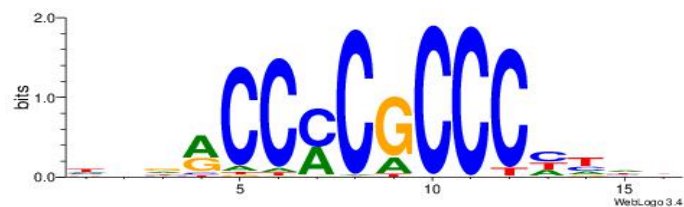


Motif ID: [UP00093](#)
Motif name: Klf7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0382733

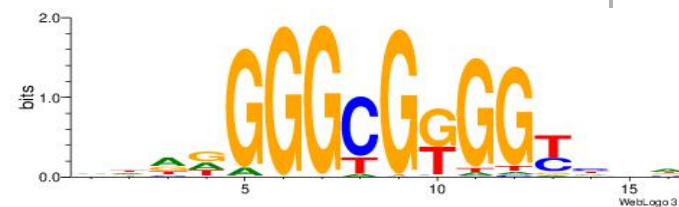
Alignment:
DHHDGGGCGRGGKHBH
BTRGGDCARAGGKCA-

Original motif Reverse complement motif

Consensus sequence: HBDRCMCGCCCHHHD



Consensus sequence: DHHDGGGCGRGGKHBH



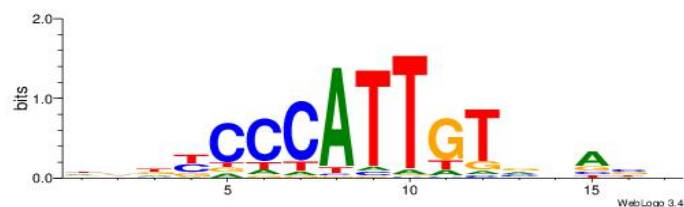
Motif ID: [UP00055](#)
Motif name: Hbp1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.0397168

Alignment:

HBTHVACAATGGGMDHD
BTRGGDCARAGGKCA--

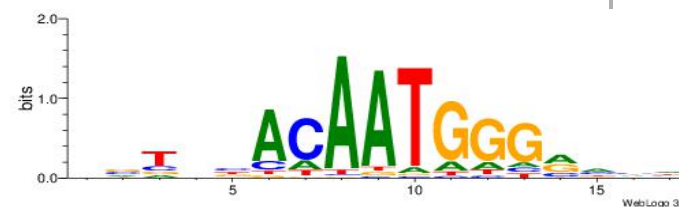
Original motif

Consensus sequence: DDDYCCCATTTGT



Reverse complement motif

Consensus sequence: HBTHVACAATGGGMDHD



Dataset #: 2 **Motif ID: 21** **Motif name: PLAG1**

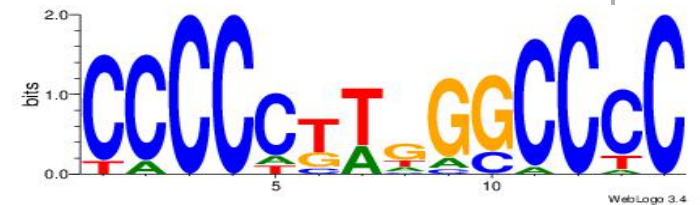
Original motif

Consensus sequence: GGGGCCCAAGGGGG



Reverse complement motif

Consensus sequence: CCCCTTGGGCCCC



Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID:	UP00102
Motif name:	Zic1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0499525

Alignment:

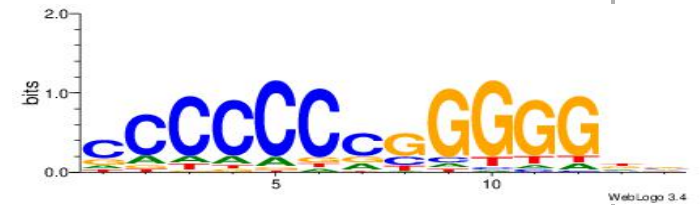
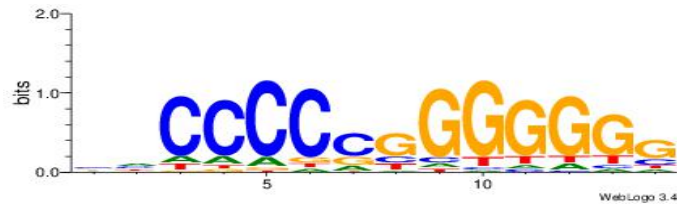
```
CCCCCCCCGGGGGHB  
CCCCCTTGGGCCCC
```

Original motif

Consensus sequence: BHCCCCGGGGGGG

Reverse complement motif

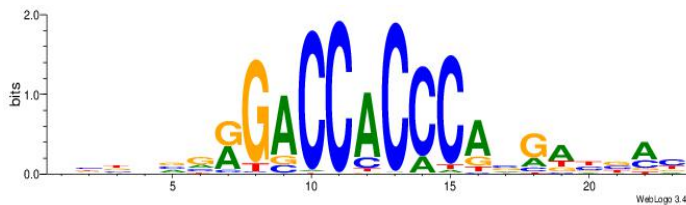
Consensus sequence: CCCCCCGGGGGHB



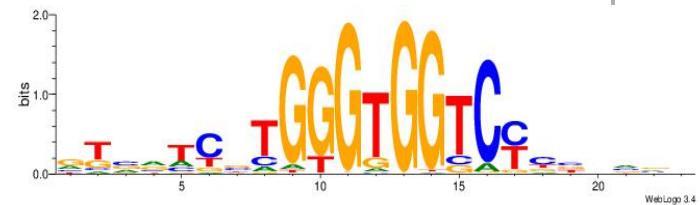
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0540613

Alignment:
 BTBVTCTGGGTGGTCMVVDVBB
 -----CCCCCTTGGGCCCC

Original motif
 Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif
 Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



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

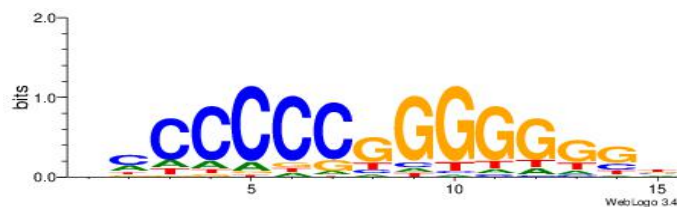
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0548411

Alignment:

BMCCCCCGGGGGGGB
 -CCCCCTTGGGCCCC

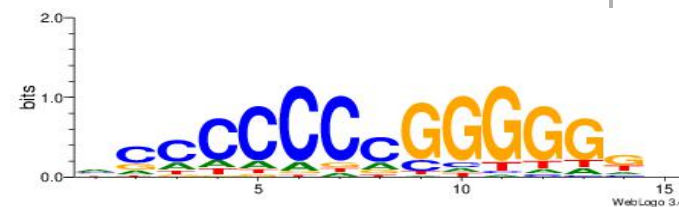
Original motif

Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGGRB



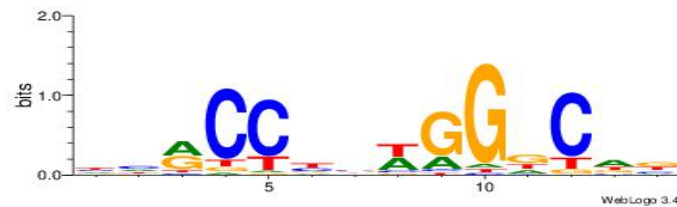
Motif ID: [UP00005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0556785

Alignment:

BDGHCCWBVGGKDH
GGGGCCCAAGGGGG

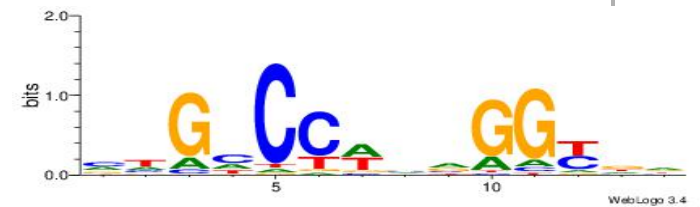
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



Motif ID:

[UP00006](#)

Motif name:

Zic3_primary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

Original Motif

Direction:

Backward

Position number:

1

Number of overlap:

14

Similarity score:

0.056976

Alignment:

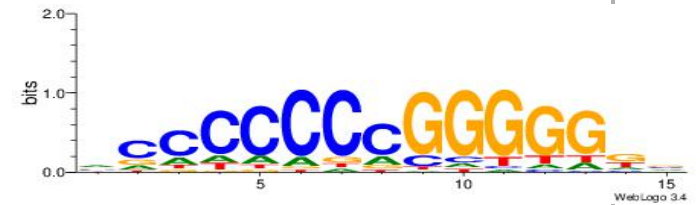
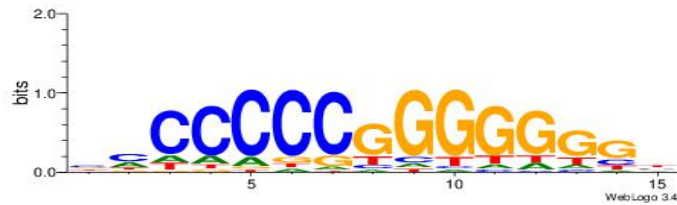
VCCCCCCCCGGGGGRB
-CCCCCTTGGGCCCC

Original motif

Consensus sequence: BMCCCCCGGGGGGGB

Reverse complement motif

Consensus sequence: VCCCCCCCCGGGGGRB

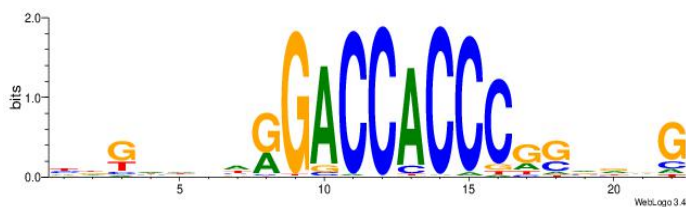


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0573495

Alignment:
 HDGHHBHRGACCACCCGSVDVG
 CCCCCTTGGGCCCC-----

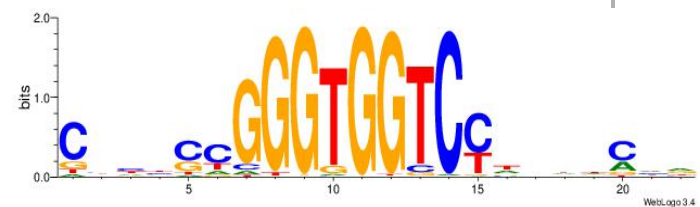
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00540](#)

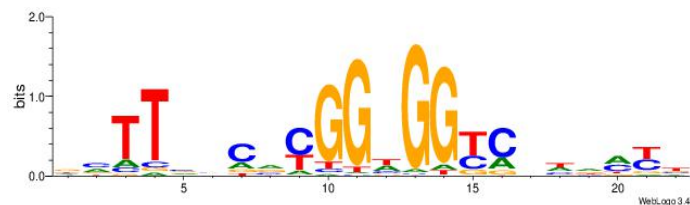
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0579022

Alignment:

VMYDHDGMCCCHCKBGVVAHVH
 -----CCCCCTTGGGCCCC

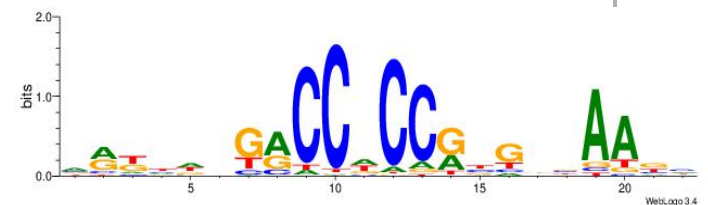
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



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: 9
 Number of overlap: 14

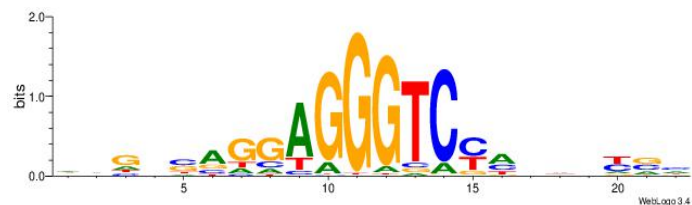
Similarity score: 0.0580662

Alignment:

DVMHHDHKGACCCTCCTSVCBH
CCCCCTTGGGCCCC-----

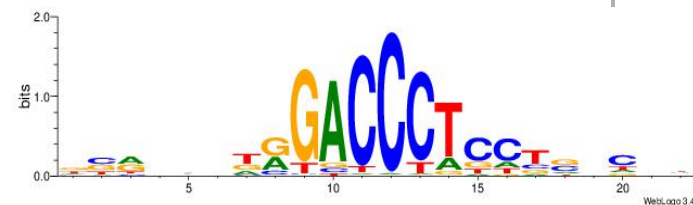
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



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: 1
Number of overlap: 14
Similarity score: 0.0597453

Alignment:

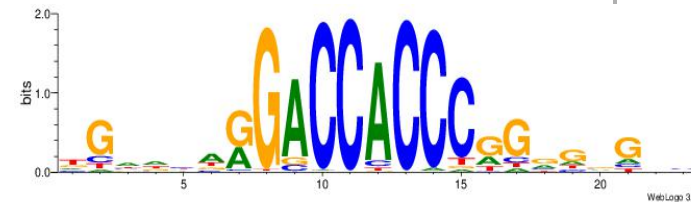
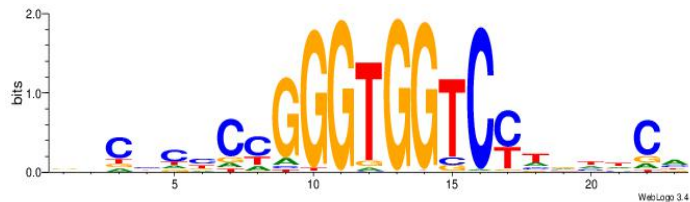
HGDHVKHGACCACCCGGBGBGDB
-----CCCCCTTGGGCCCC

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

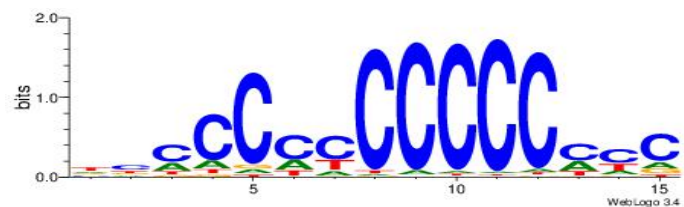
Consensus sequence: HGDHVKHGACCACCCGGBGBGDB



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: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0598088

Alignment:
 DBCCCCCCCCCMYC
 -CCCCCTTGGGCCCC

Original motif
 Consensus sequence: DBCCCCCCCCCMYC



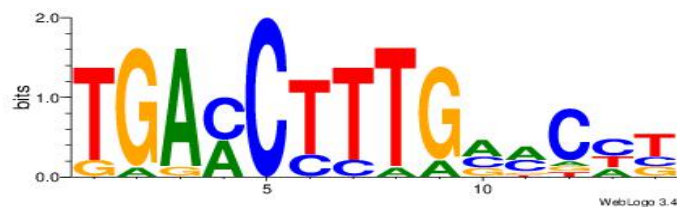
Reverse complement motif
 Consensus sequence: GKRGGGGGGGGGBD



Dataset #: 2 Motif ID: 22 Motif name: NR2F1

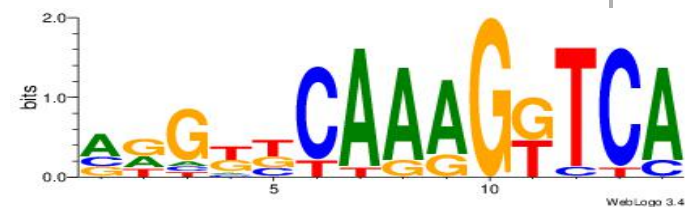
Original motif

Consensus sequence: TGAMCTTTGMMCYT



Reverse complement motif

Consensus sequence: AKGY YCAAAGRTCA



Best Matches for Motif ID 22 (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

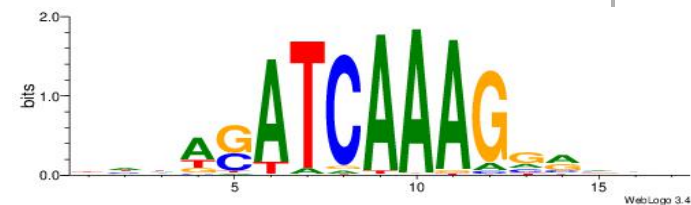
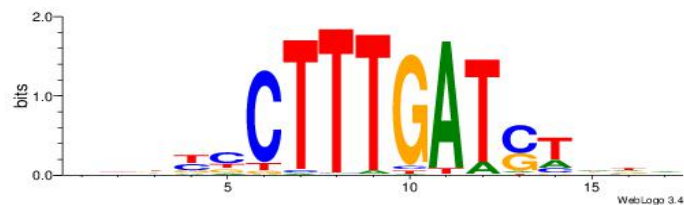
-TGAMCTTTGMMCYT--

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDD

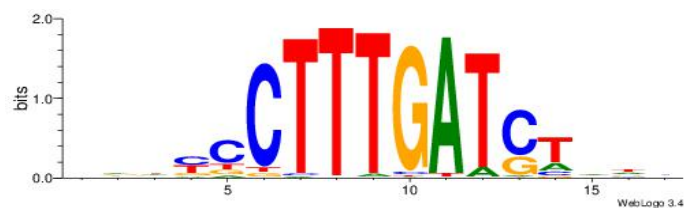


Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0453449

Alignment:
 VDDAGATCAAAGGKDDD
 --AKGY YCAAAGRTCA--

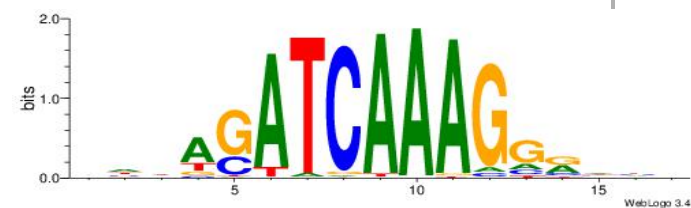
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00539](#)

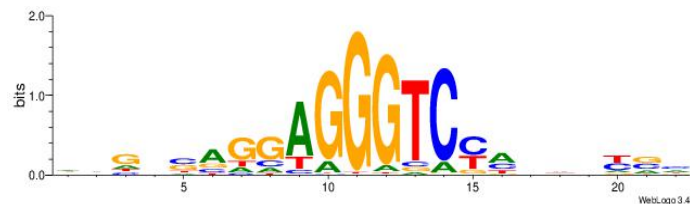
Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 14
 Similarity score: 0.0461358

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 -----TGAMCTTTGMMCYT-

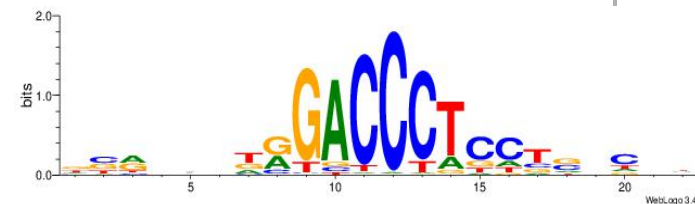
Original motif

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

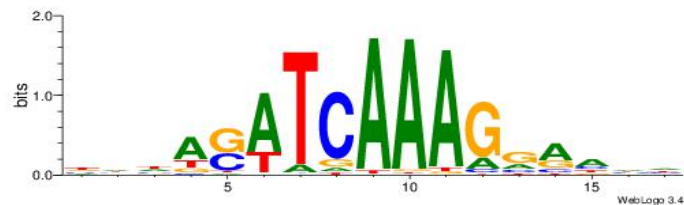
Alignment:

BHHASATCAAAGGAHHH

--AKGYTCAAAGRTCA--

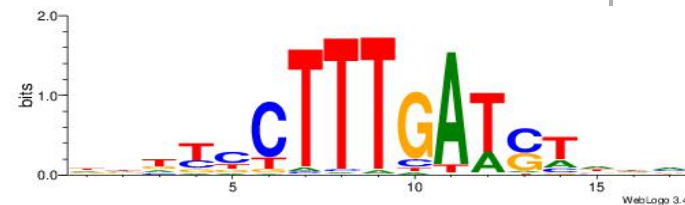
Original motif

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

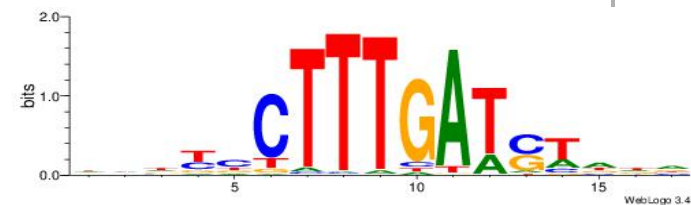
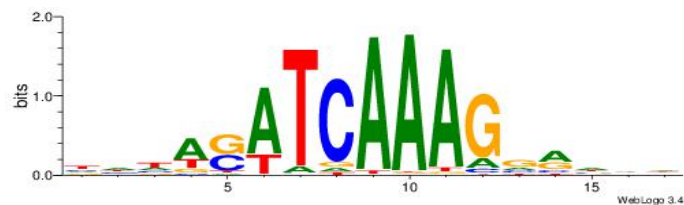
--AKGYTCAAAGRTCA--

Original motif

Consensus sequence: HHHASATCAAAGVRHHH

Reverse complement motif

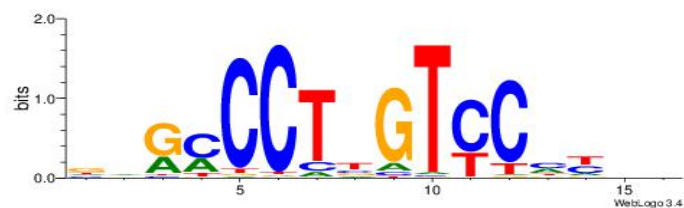
Consensus sequence: HHHKVCTTTGATSTHHH



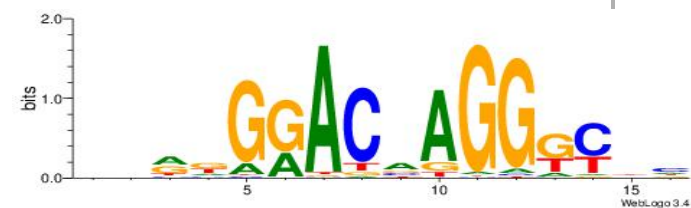
Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0480188

Alignment:
 DDGMCCTBGTCCHYHV
 TGAMCTTTGMMCCT--

Original motif
 Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif
 Consensus sequence: VHMDGGACVAGGRCDH



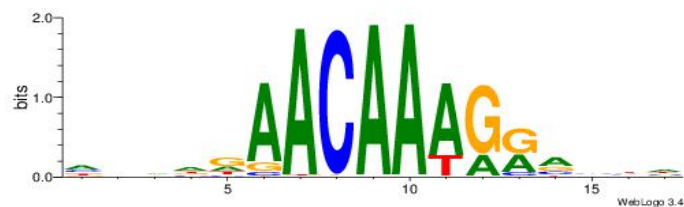
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0495447

Alignment:

HHBBMCTTTGTTHDDBH
 -TGAMCTTTGMMCYT--

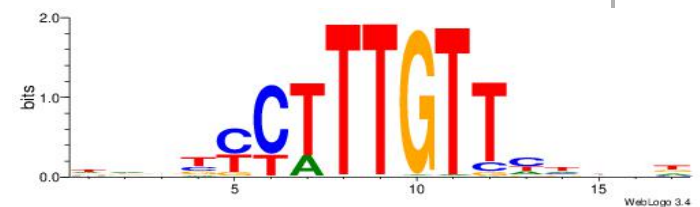
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

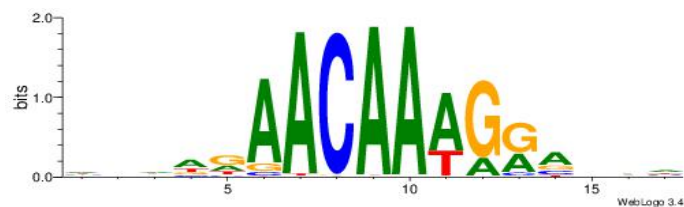
Number of overlap: 14
Similarity score: 0.0499033

Alignment:

HHBTMCTTTGTTMDDVH
-TGAMCTTTGMMCYT--

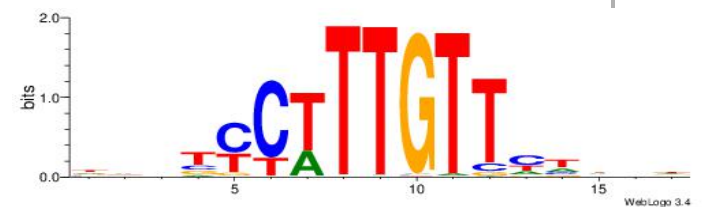
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



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: 1
Number of overlap: 14
Similarity score: 0.0511534

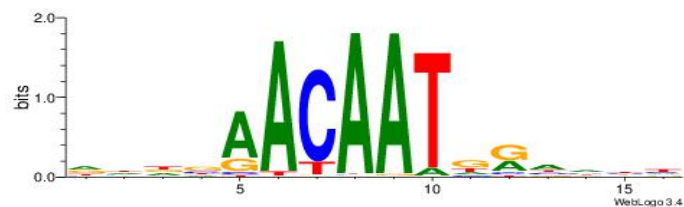
Alignment:

DHDBAACAATDRHHHH
--TGAMCTTTGMMCYT

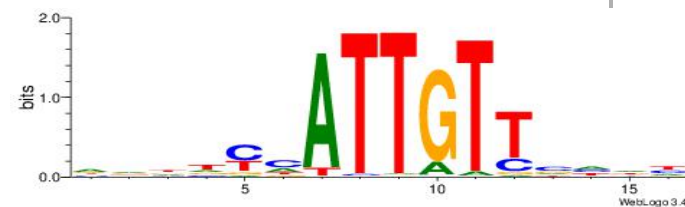
Original motif

Reverse complement motif

Consensus sequence: DHDBAACAATDRHHHH



Consensus sequence: HHHHMHATTGTTBDHD



Motif ID: [UP00005](#)
Motif name: Tcfap2a_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: 0.0516973

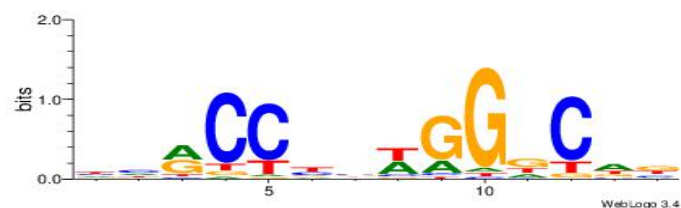
Alignment:

BDGHCCWBVGKDH

AKGY YCAAAGRTCA

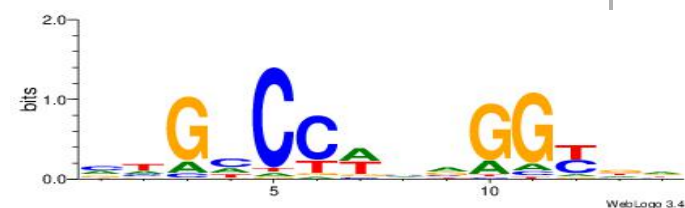
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



Dataset #: 2

Motif ID: 23

Motif name: MZF1_1-4

Original motif

Consensus sequence: BGGGGA



Reverse complement motif

Consensus sequence: TCCCCV



Best Matches for Motif ID 23 (Highest to Lowest)

Motif ID: [UP00176](#)
Motif name: Crx
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: 6
Similarity score: 0

Alignment:

YBWDGGGGATTARCCD

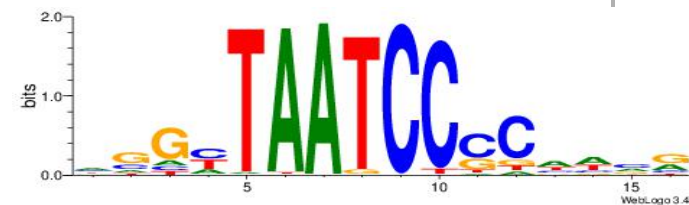
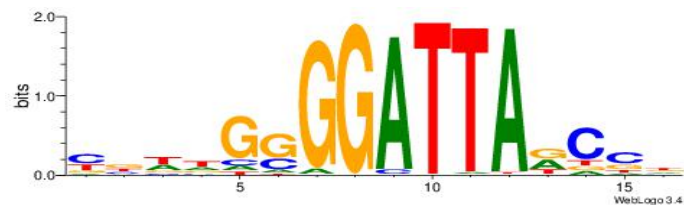
---BGGGGA-----

Original motif

Consensus sequence: YBWDGGGGATTARCCD

Reverse complement motif

Consensus sequence: DGGMTAATCCCCDWBK

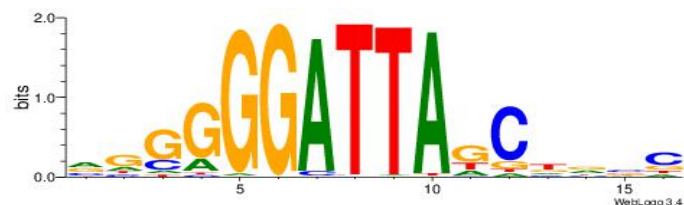


Motif ID: [UP00265](#)
 Motif name: Pitx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 6
 Similarity score: 0.00193291

Alignment:
 GBHDGCTAATCCCCCB
 -----TCCCCV-

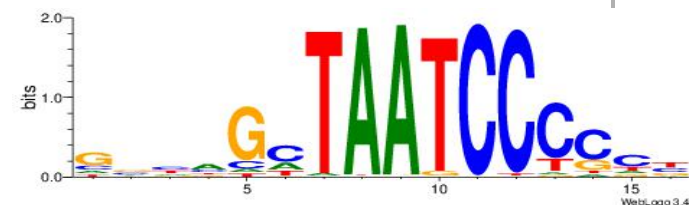
Original motif

Consensus sequence: VGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



Motif ID: [UP00239](#)

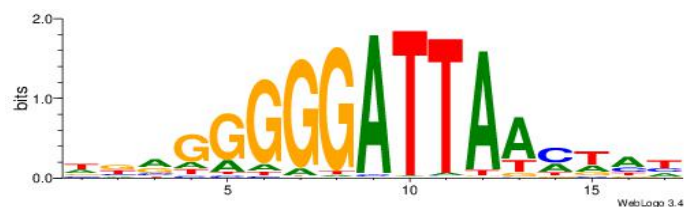
Motif name: Obox2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00284735

Alignment:

HTARTTAATCCCCCKBD
 -----TCCCCV---

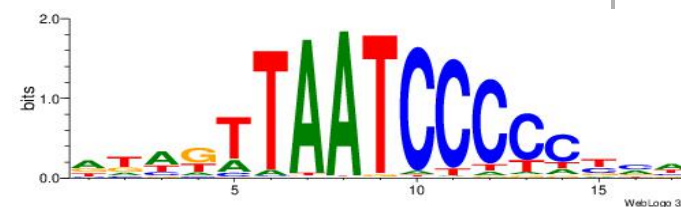
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



Motif ID: [UP00216](#)
 Motif name: Obox1
 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: 6

Similarity score: 0.00461976

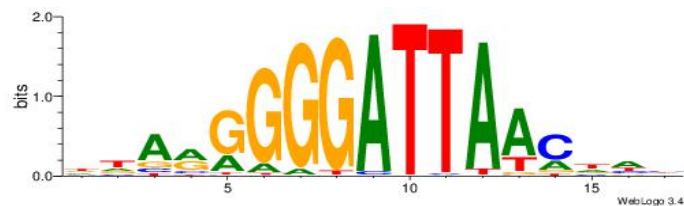
Alignment:

DHDGTTAATCCCCKTDD

-----TCCCV---

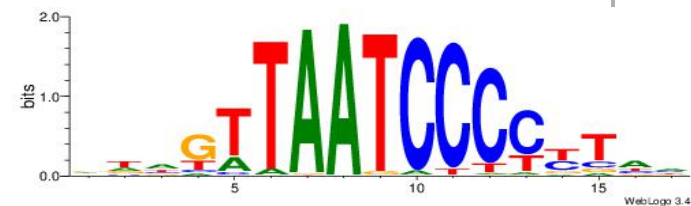
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



Motif ID: [UP00160](#)

Motif name: Obox3

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: 0.00641818

Alignment:

HHWGTTAATCCCCBBH

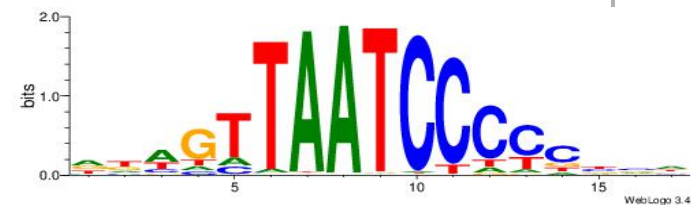
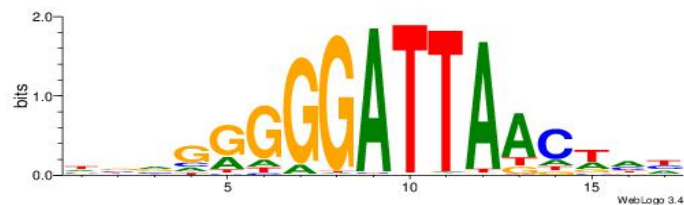
-----TCCCV---

Original motif

Consensus sequence: HBVGGGGGATTAACWHH

Reverse complement motif

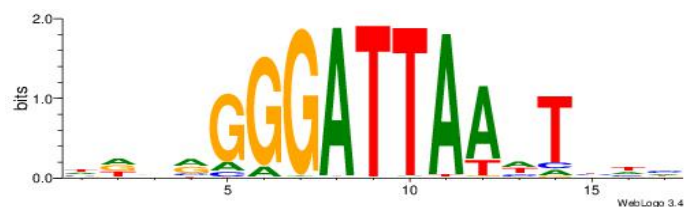
Consensus sequence: HHWGTTAATCCCCBBH



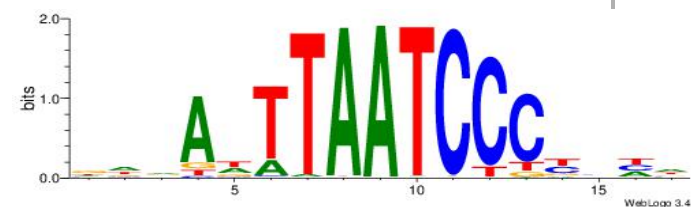
Motif ID: [UP00208](#)
 Motif name: Obox5_2284.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 6
 Similarity score: 0.0110256

Alignment:
 HDVRGGGATTAAHTHHH
 --BGGGA-----

Original motif
 Consensus sequence: HDVRGGGATTAAHTHHH



Reverse complement motif
 Consensus sequence: DHHAHTTAATCCCKVDH



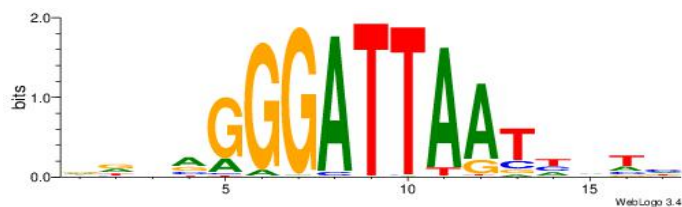
Motif ID: [UP00143](#)
 Motif name: Dobox5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 6
 Similarity score: 0.0136568

Alignment:

DDHVGGGATTAATHDTH
 --BGGGGA-----

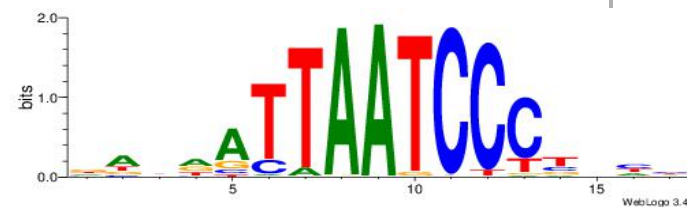
Original motif

Consensus sequence: DDHVGGGATTAATHDTH



Reverse complement motif

Consensus sequence: DADHATTAATCCCBHHH

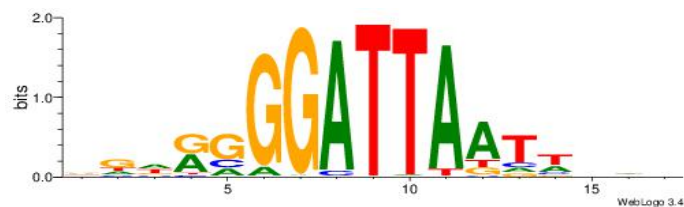


Motif ID: [UP00229](#)
 Motif name: Otx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10

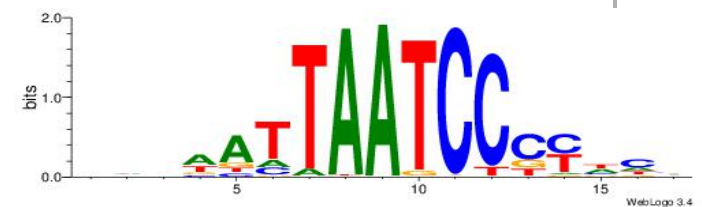
Number of overlap: 6
Similarity score: 0.0138939

Alignment:
DDDRGGGATTAATWHHB
--BGGGA-----

Original motif
Consensus sequence: DDDRGGGATTAATWHHB



Reverse complement motif
Consensus sequence: VHHWATTAATCCCMDHH



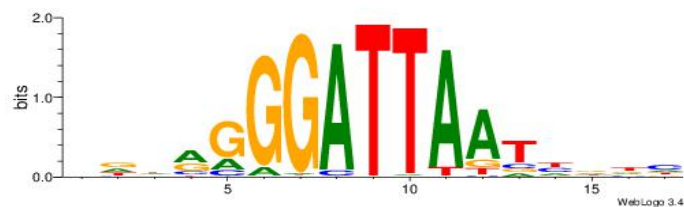
Motif ID: [UP00267](#)
Motif name: Otx2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 6
Similarity score: 0.016387

Alignment:
DDDRGGGATTAATHDDH
--BGGGA-----

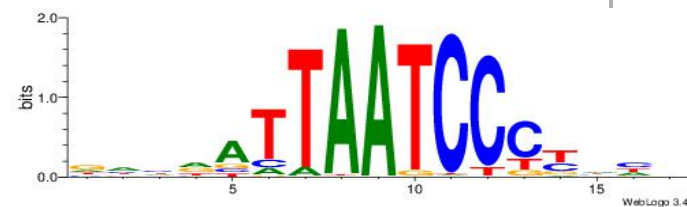
Original motif

Reverse complement motif

Consensus sequence: DDRGGGATTAATHDDH



Consensus sequence: DDHHATTAATCCCKDHD



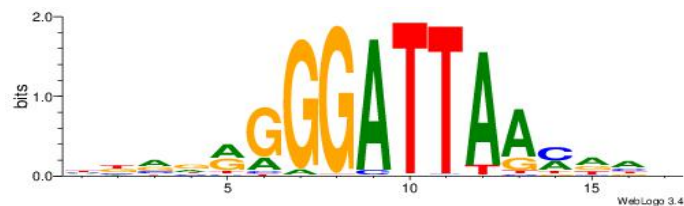
Motif ID: [UP00153](#)
Motif name: Pitx1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 6
Similarity score: 0.0164951

Alignment:

HBVDRGGGATTAAMDHH
---BGGGA-----

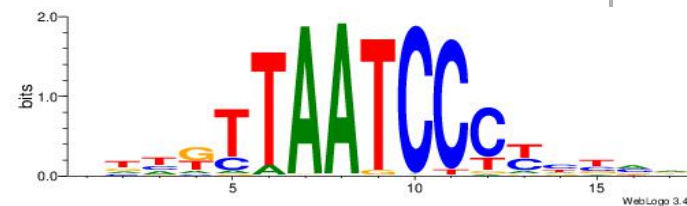
Original motif

Consensus sequence: HBVDRGGGATTAAMDHH



Reverse complement motif

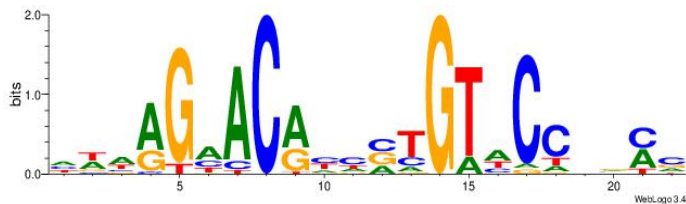
Consensus sequence: HHDRTTAATCCCKHBVH



Dataset #: 2 **Motif ID: 24** **Motif name: Ar**

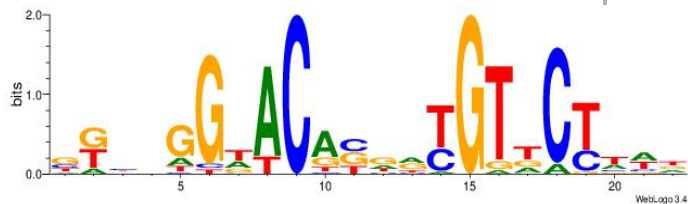
Original motif

Consensus sequence: HWDAGHACRHHVTGTHCCHVMV



Reverse complement motif

Consensus sequence: VRVDGGHACAVDDKGTHTCTDWH



Best Matches for Motif ID 24 (Highest to Lowest)

Motif ID:	UP00032
Motif name:	Gata3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	22
Similarity score:	0.0676991

Alignment:

HBHDVBWGATHBTATCRVBHHH

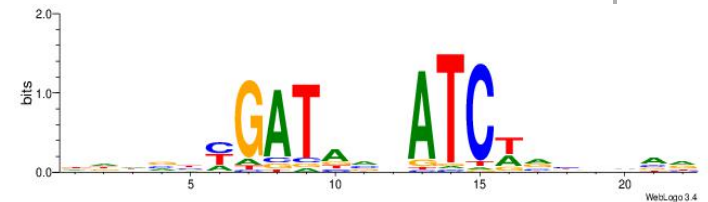
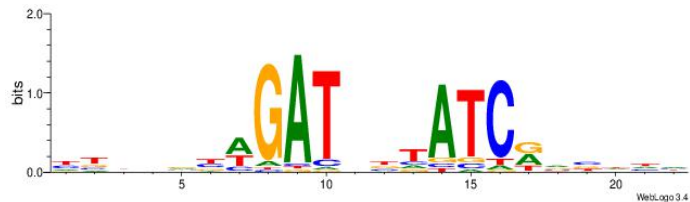
HWDAGHACRHHVTGTHCCHVMV

Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH

Reverse complement motif

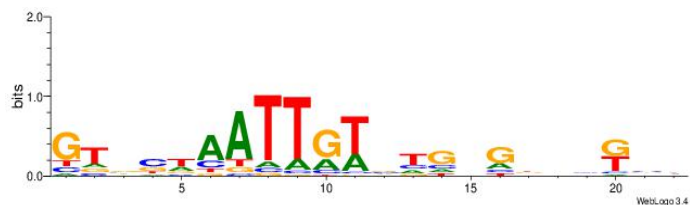
Consensus sequence: HHHBBMGATAVHATCWVVDHVH



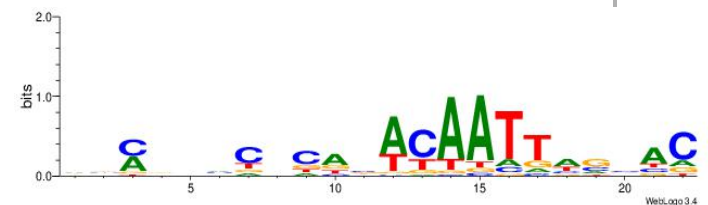
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0692146

Alignment:
 VVYDDDCHCAVACAATTDBVAC
 VRVDGGHACAVDDKGTHTDWH

Original motif
 Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif
 Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary

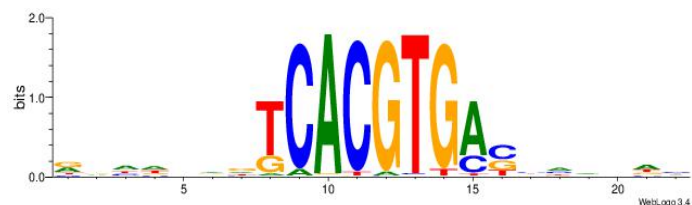
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0695612

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 VRVDGGHACAVDDKGTHTDWH

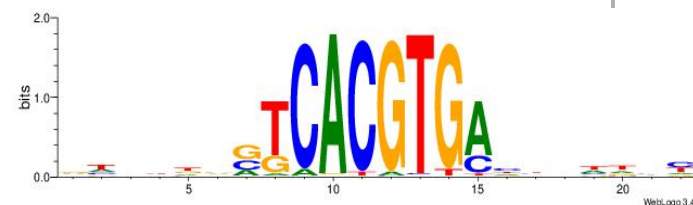
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



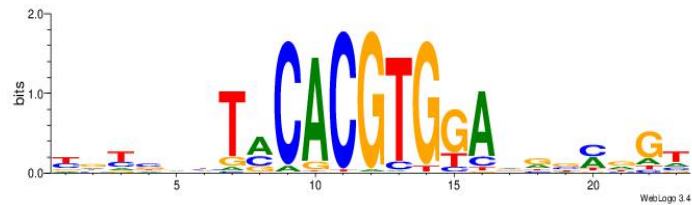
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0771346

Alignment:

YDYBDHTMCACGTGGADDBMDGT
-HWDAGHACRHHVTGTHCCHVMV

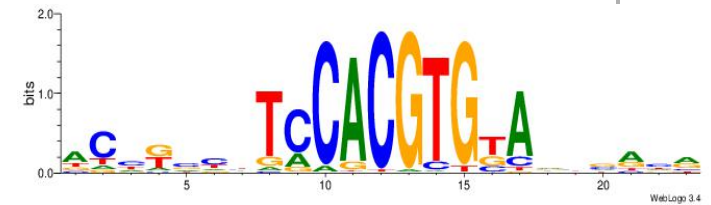
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



Motif ID:	UP00526
Motif name:	Foxn1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	22
Similarity score:	0.0772045

Alignment:

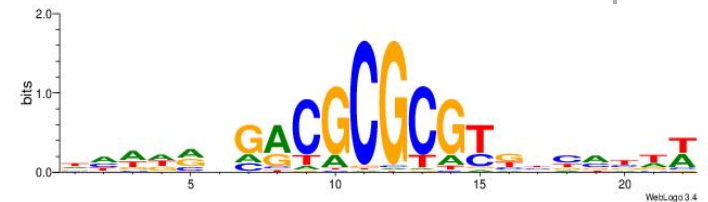
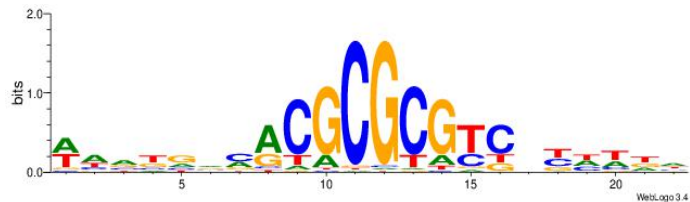
HDWHMHGACGCGCGTRBVVBHW
VRVDGGHACAVDDKGTHTDWH

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

Reverse complement motif

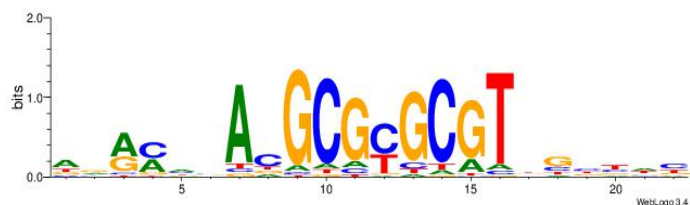
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



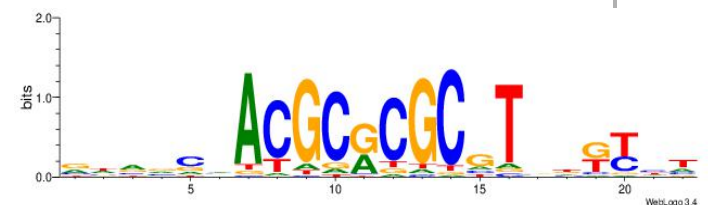
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.077433

Alignment:
 DDRMHBACGCGYGCGTDGBBDB
 VRVDGGHACAVDDKGTHTDWH

Original motif
 Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif
 Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Motif ID: [UP00540](#)

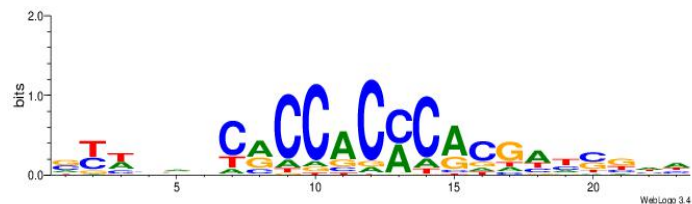
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 22
 Similarity score: 0.0776897

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -HWDAGHACRHHVTGTHCCHVMV

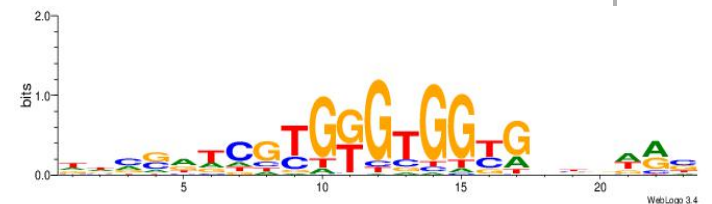
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

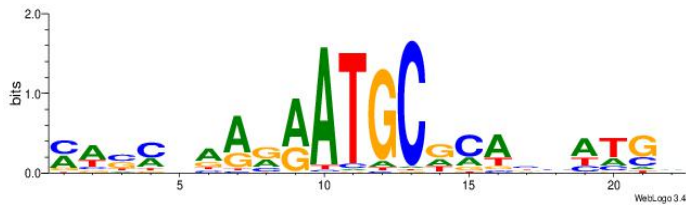


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 22

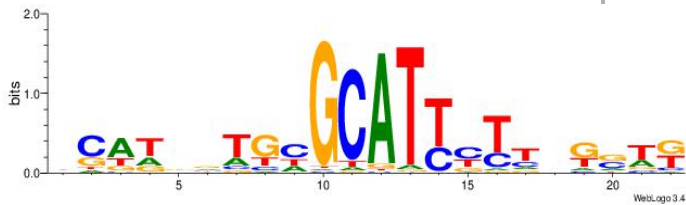
Similarity score: 0.0787977

Alignment:
MWSMBAARRATGCD CABHATGD
HWDAGHACRHHVTGTHCCHVMV

Original motif
Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
Consensus sequence: DCATDBTGHGCATKMTTBRSWR

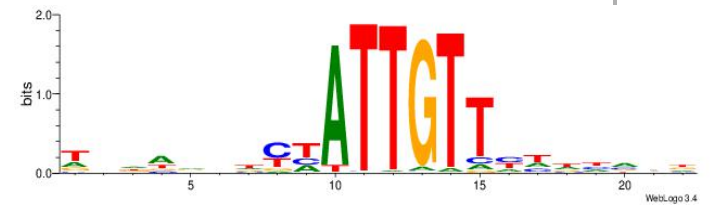
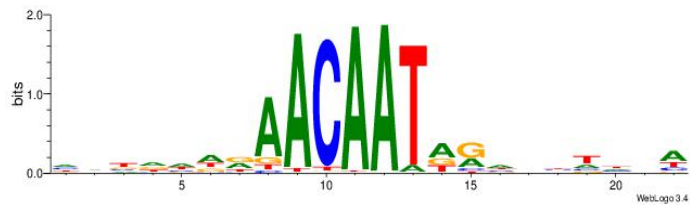


Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 22
Similarity score: 0.0792723

Alignment:
HHBDHDDAACAATDRHHHHHBW
HWDAGHACRHHVTGTHCCHVMV

Original motif
Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTT HDHDVHH



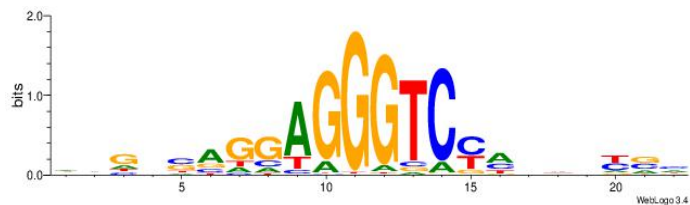
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0799314

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
 HWDAGHACRHHVTGTHCCHVMV

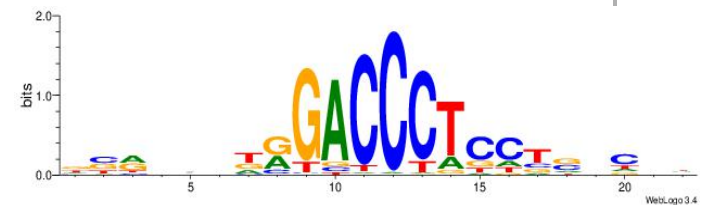
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Dataset #: 2 **Motif ID: 25** **Motif name: Arnt**

Original motif

Consensus sequence: CACGTG



Reverse complement motif

Consensus sequence: CACGTG



Best Matches for Motif ID 25 (Highest to Lowest)

Motif ID:	UP00050
Motif name:	Bhlhb2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	6
Similarity score:	0

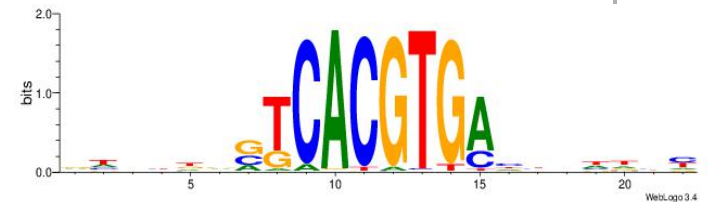
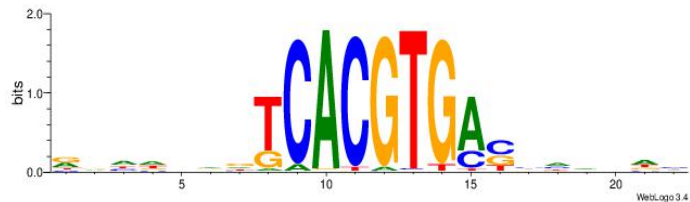
Alignment:
RDHDBVDTACGTGASBHVHDH
-----CACGTG-----

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH

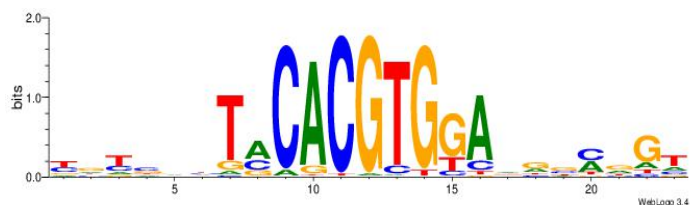


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.0026425

Alignment:
 YDYBDHTMCACGTGGADDBMDGT
 -----CACGTG-----

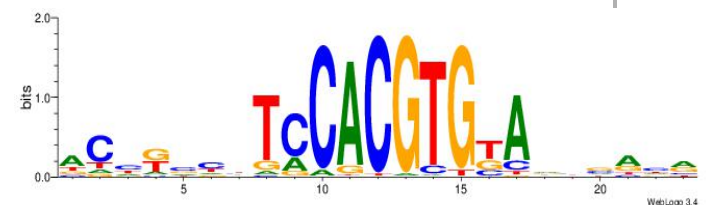
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



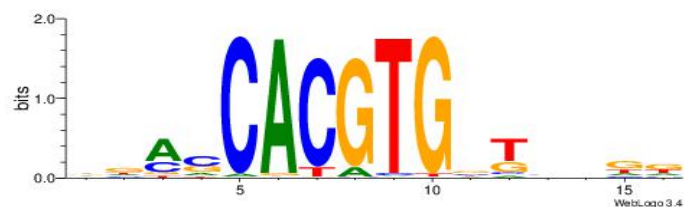
Motif ID: [UP00060](#)

Motif name:	Max_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:	0.0044422

Alignment:
HHVBABCACGTGSTHD
-----CACGTG----

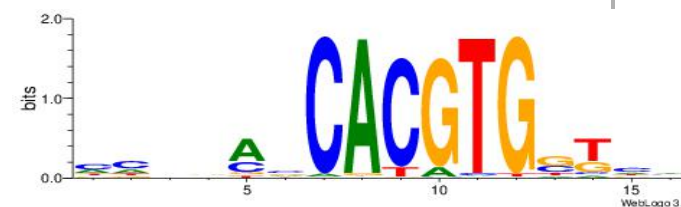
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



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:	Forward
Position number:	7
Number of overlap:	6

Similarity score: 0.0342153

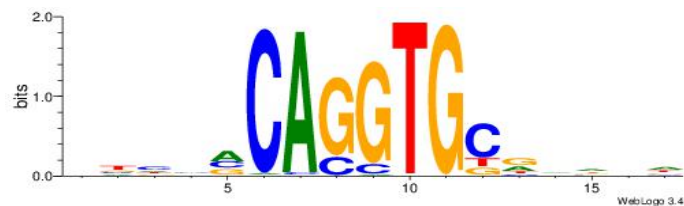
Alignment:

DHDBHGCACCTGBDDVB

-----CACGTG-----

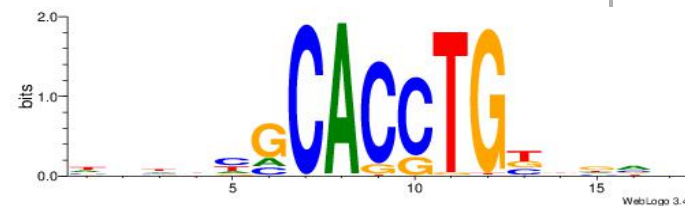
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00097](#)

Motif name: Mtf1_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 9

Number of overlap: 6

Similarity score: 0.0471928

Alignment:

HDYTTGCACACGDHBH

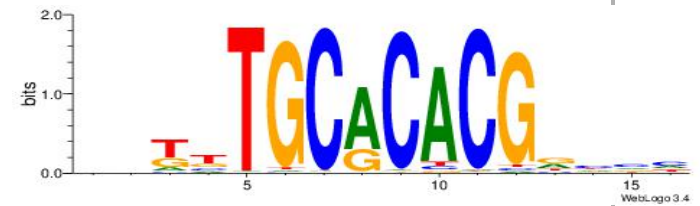
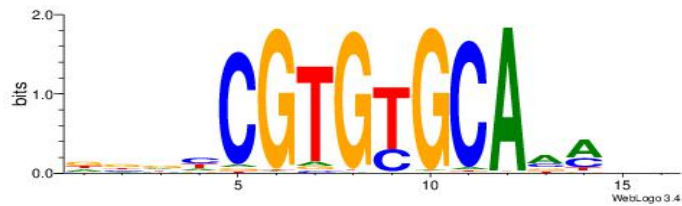
-----CACGTG--

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

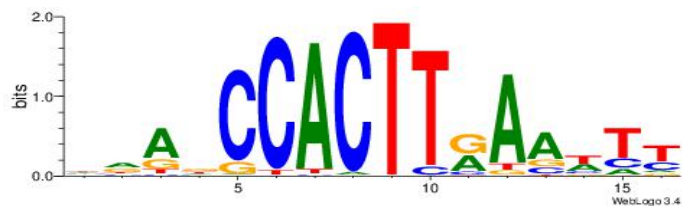
Consensus sequence: HDYTTGCACACGDHBH



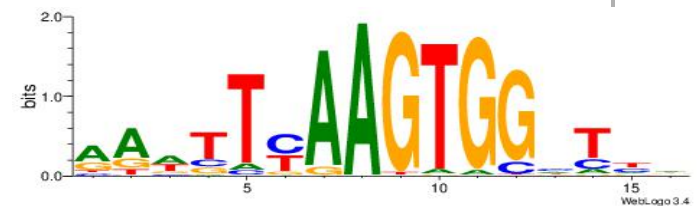
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0482749

Alignment:
 HDADCCACTTTRAAWTT
 -----CACGTG-----

Original motif
 Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif
 Consensus sequence: AAWTTMAAGTGGHTDH



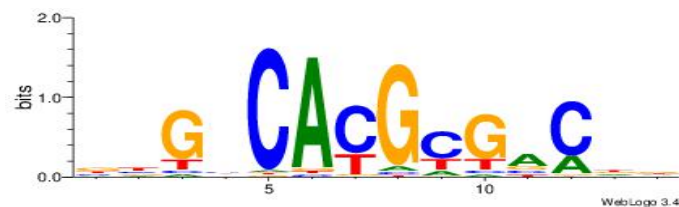
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0485437

Alignment:

BBGHCACGCGACDD
 ----CACGTG-----

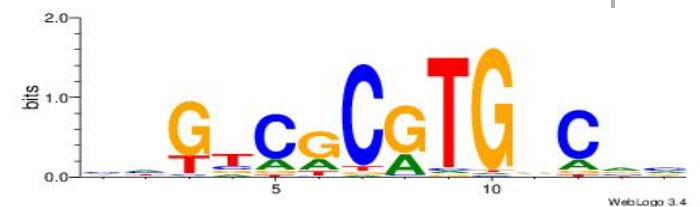
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7

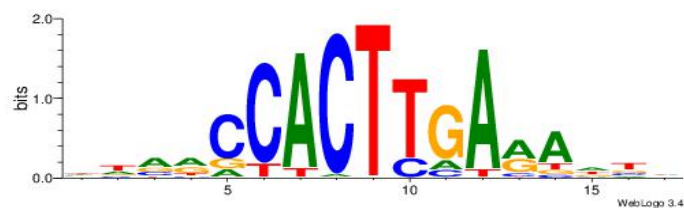
Number of overlap: 6
Similarity score: 0.0497234

Alignment:

DVDTKTCAAGTGGKBDH
-----CACGTG-----

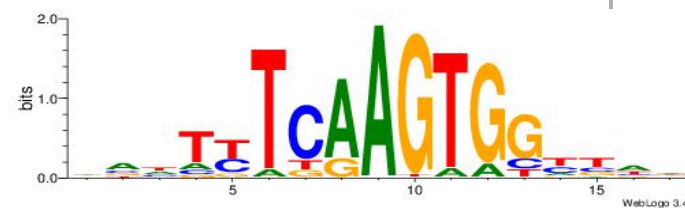
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00165](#)
Motif name: Titf1
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: 0.0498919

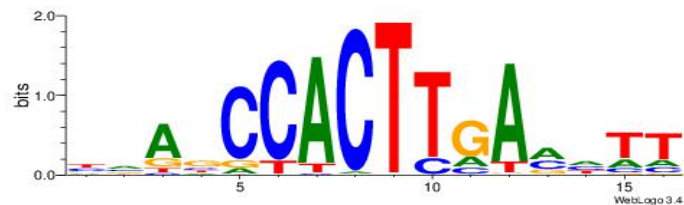
Alignment:

AAHYTCAAGTGGTBV
-----CACGTG-----

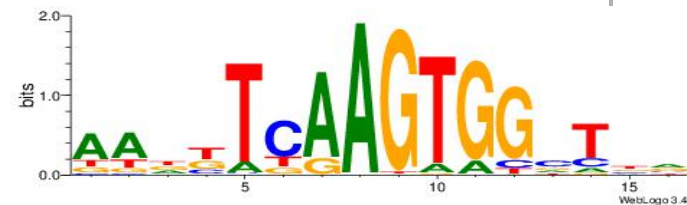
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



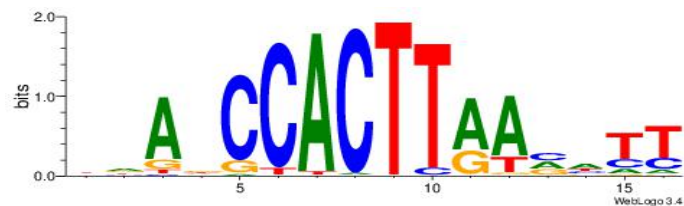
Motif ID: [UP00147](#)
Motif name: Nkx2-6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.0544601

Alignment:

DDADCCACTTAAVHTT
-----CACGTG-----

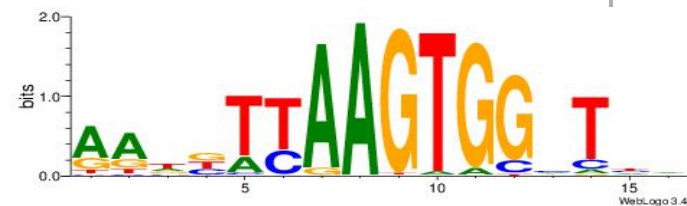
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



Dataset #: 2 **Motif ID: 26** **Motif name: ArntAhr**

Original motif

Consensus sequence: YGCGTG



Reverse complement motif

Consensus sequence: CACGCM



Best Matches for Motif ID 26 (Highest to Lowest)

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

Alignment:

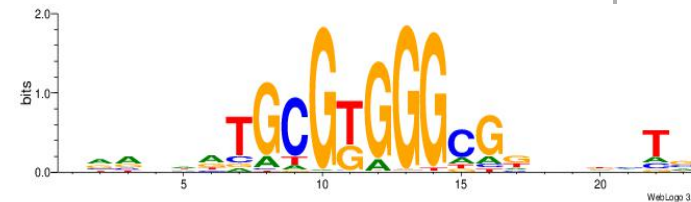
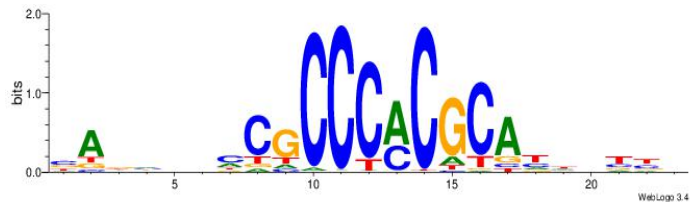
```
VVVDHHTGCGYGGGCGDHSVHHTB
-----YGCGTG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB

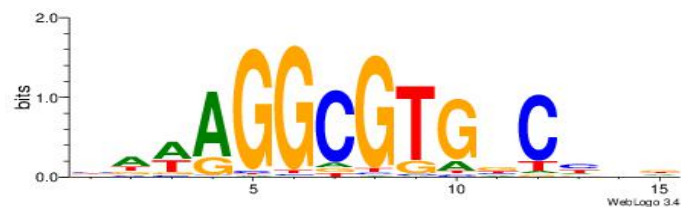


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

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

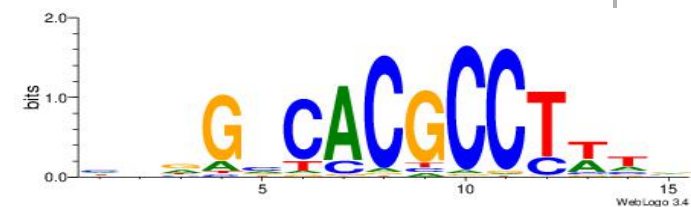
Original motif

Consensus sequence: BDWAGGCGTGBCBHHD



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:

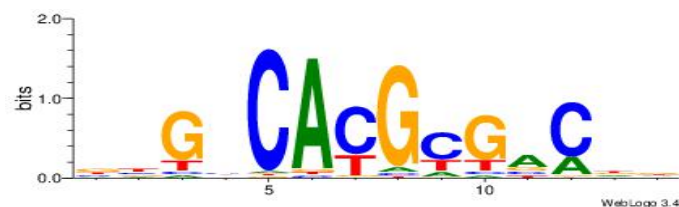
```

HDGTCGCGTGDCVB
----YGCGTG-----

```

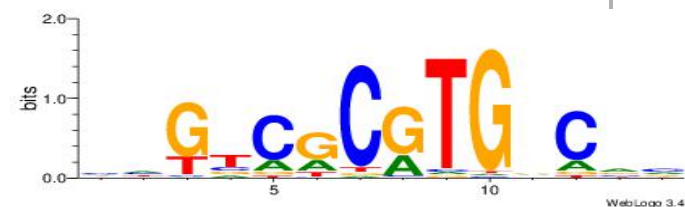
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB

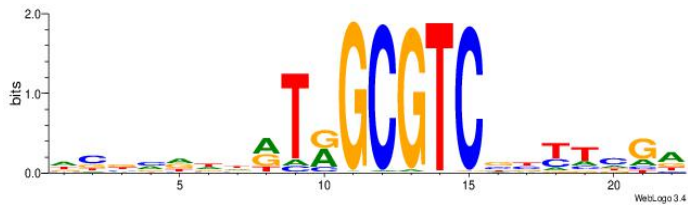


Motif ID:	UP00527
Motif name:	Foxn4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	6

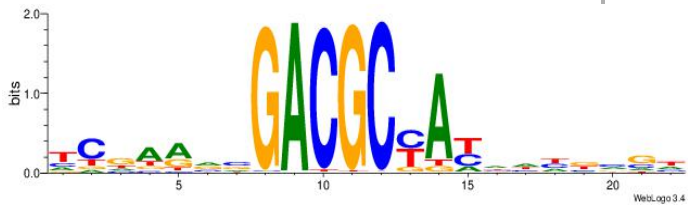
Similarity score: 0.00526158

Alignment:
TCDAMVBGACGCMACDDDVBBDD
-----CACGCM-----

Original motif
Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif
Consensus sequence: TCDAMVBGACGCMACDDDVBBDD



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

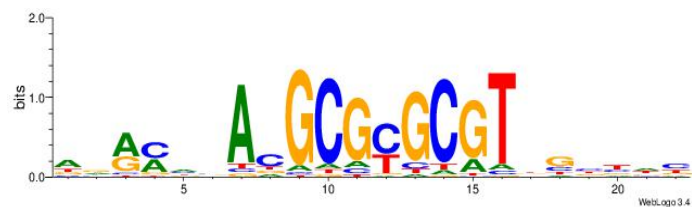
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0123233

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -----YGCGTG-----

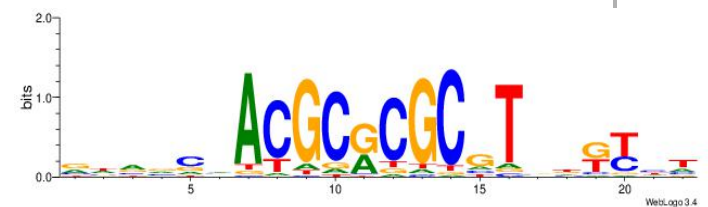
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



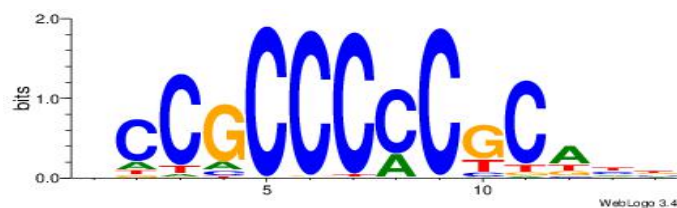
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3

Number of overlap: 6
Similarity score: 0.0141579

Alignment:
HCCGCCCCCGCAHB
-----CACGCM--

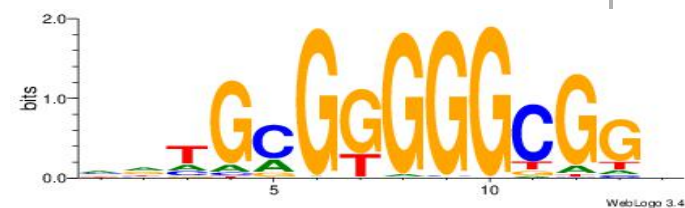
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



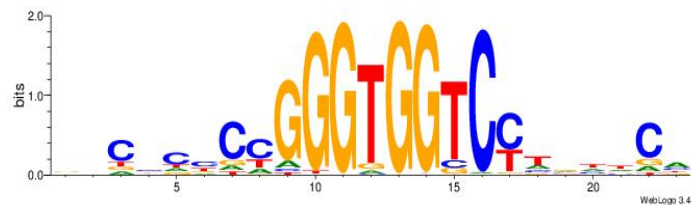
Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 6
Similarity score: 0.0144485

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
-----YGCGTG-----

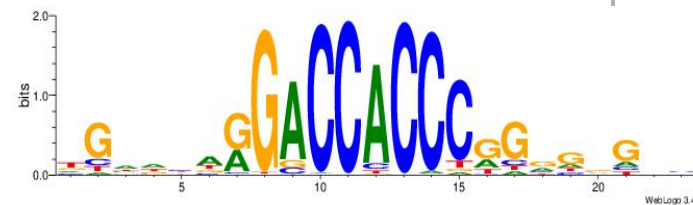
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



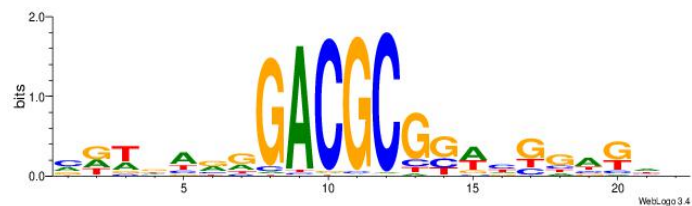
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.0172109

Alignment:

```
VHYTCCDWCCGCGTCMMTHWHV  
-----YGCGTG-----
```

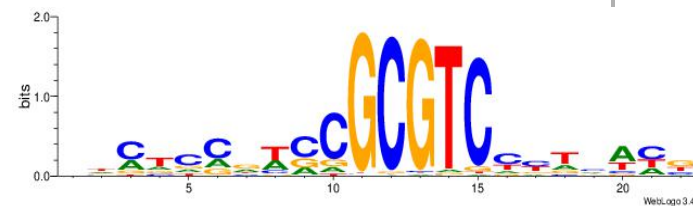
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 2 **Motif ID: 27** **Motif name: E2F1**

Original motif

Consensus sequence: TTTSGCGC



Reverse complement motif

Consensus sequence: GCGCSAAA



Best Matches for Motif ID 27 (Highest to Lowest)

Motif ID:	UP00001
Motif name:	E2F2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0

Alignment:

BBBDTTGGCGCCKWVVD

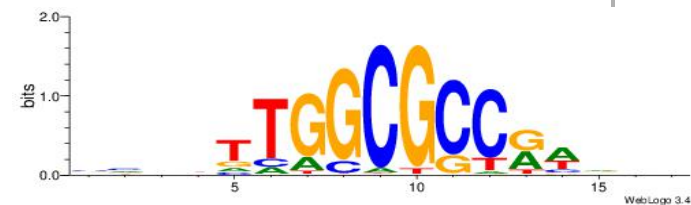
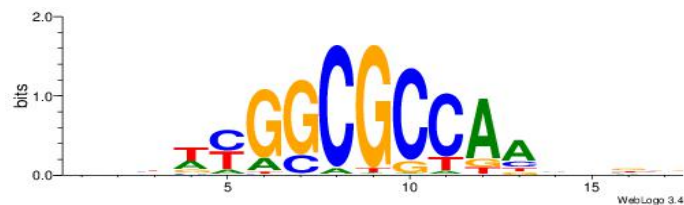
---TTTSGCGC-----

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD

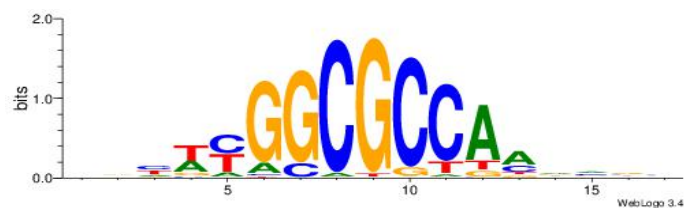


Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00182028

Alignment:
 HBHWYGGCGCCAMDVB
 -----GCGCSAAA---

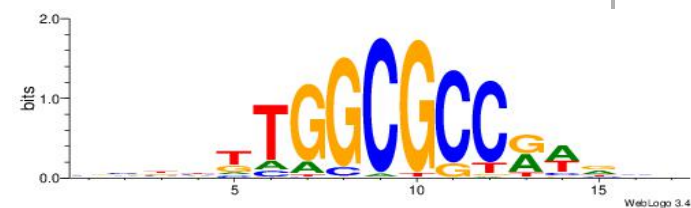
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00072](#)

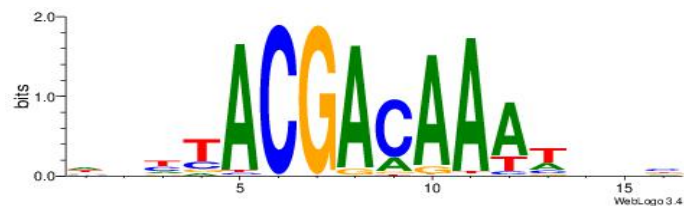
Motif name: IRC900814_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0237639

Alignment:

DDHTACGACAAWDDDB
 ----GCGCSAAA----

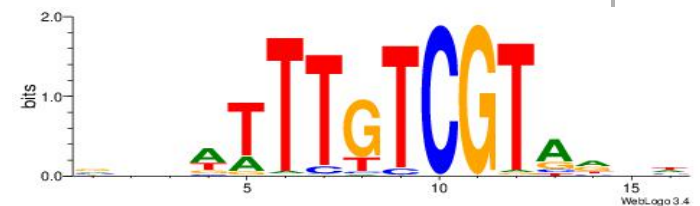
Original motif

Consensus sequence: DDHTACGACAAWDDDB



Reverse complement motif

Consensus sequence: BHDWTTTGTCTAHDDB



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

Similarity score: 0.0275636

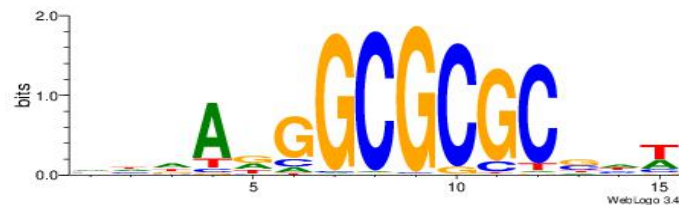
Alignment:

WHSGCGCGCCHTDHB

-----GCGCSAAA--

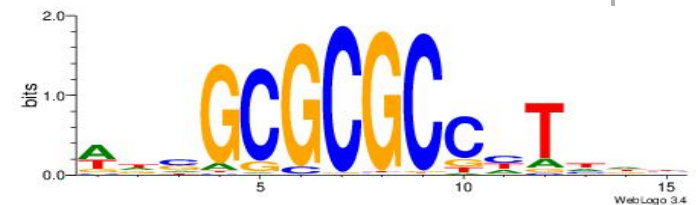
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.028109

Alignment:

DMMDGMGCGCGCGCHD

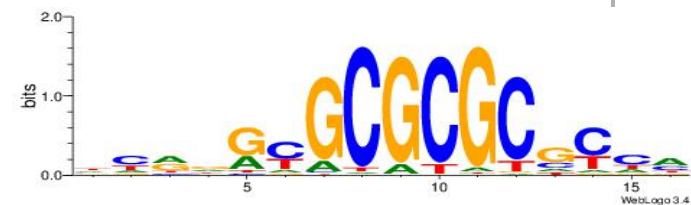
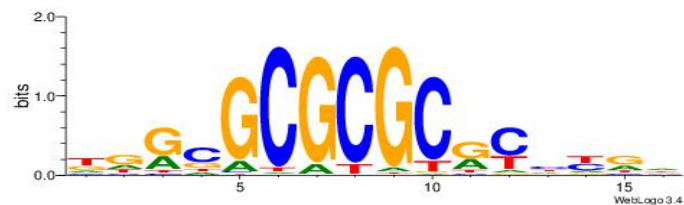
-----GCGCSAAA

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

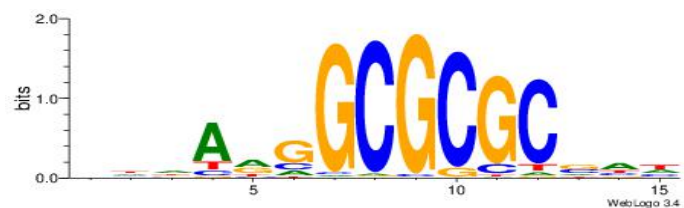
Consensus sequence: DMMDGMGCGCGCGCHD



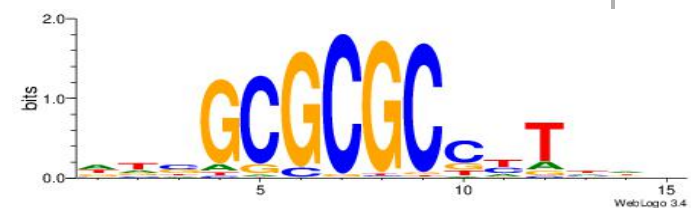
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0296302

Alignment:
 VHDARGGCGCGCVHH
 --TTTSGCGC-----

Original motif
 Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif
 Consensus sequence: HHVGC GCGCCKTDHB



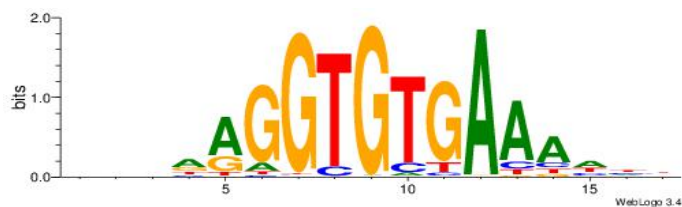
Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0348969

Alignment:

BVHDAGGTGTGAAHHH
 -----GCGCSAAA----

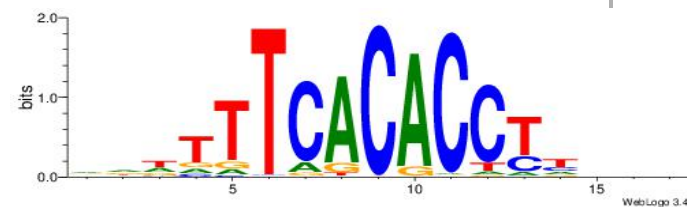
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



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: 8

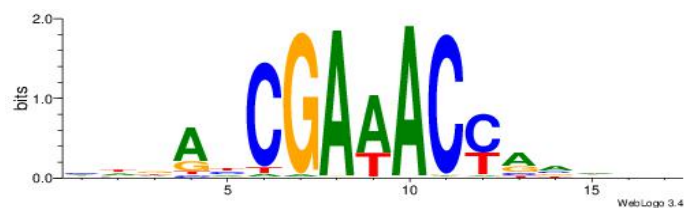
Number of overlap: 8
Similarity score: 0.0368278

Alignment:

DHDBTKGTTTCGHTHDD
-----TTTSGCGC--

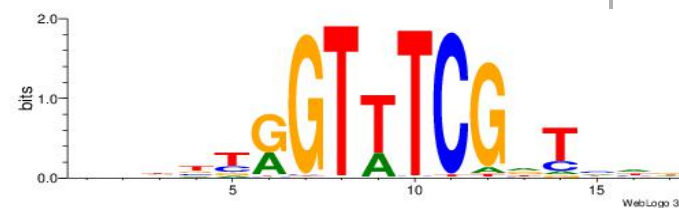
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Motif ID: [UP00049](#)
Motif name: Sp100_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: 0.0383813

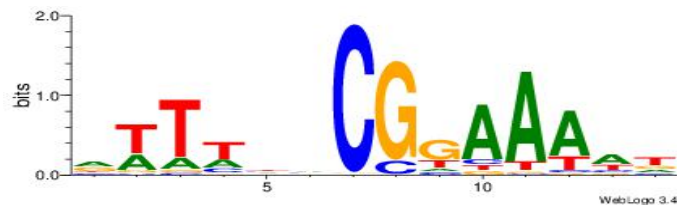
Alignment:

DWTTTCCGHHWAWD
-----GCGCSAAA-

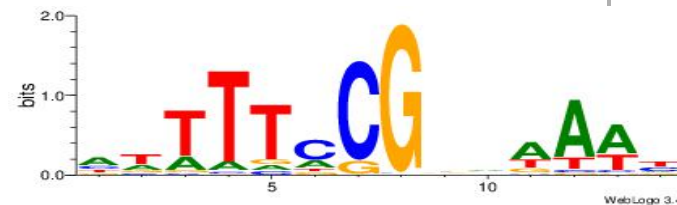
Original motif

Reverse complement motif

Consensus sequence: DWTWHHCGGAAAWD



Consensus sequence: DWTTTCCGHHWAWD



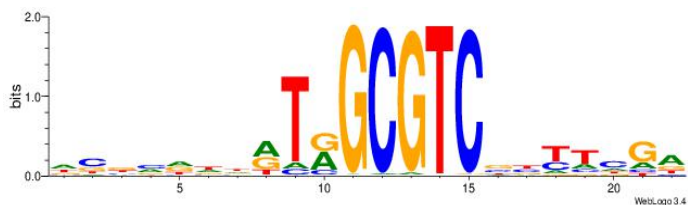
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0406002

Alignment:

```
TCDAMVBGACGCMKDDDVBBB  
-----GCGCSAAA-----
```

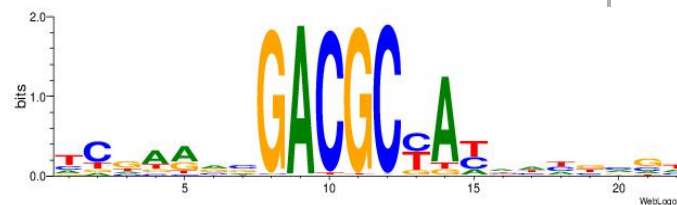
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBB



Dataset #: 2 **Motif ID: 28** **Motif name: Egr1**

Original motif

Consensus sequence: HGCGTGGGCGK



Reverse complement motif

Consensus sequence: YCGCCCACGCH



Best Matches for Motif ID 28 (Highest to Lowest)

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

Alignment:

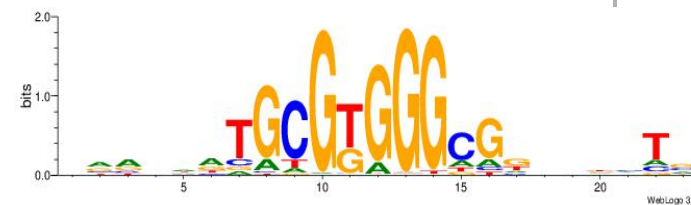
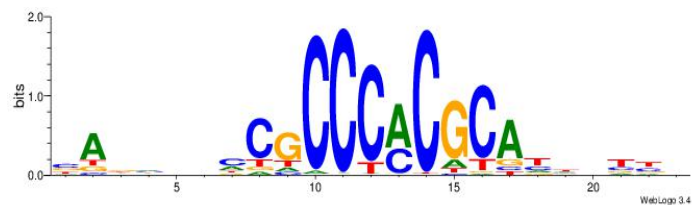
```
VVVDHHTGCGYGGGCGDHHVHHTB
-----HGCGTGGGCGK-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB

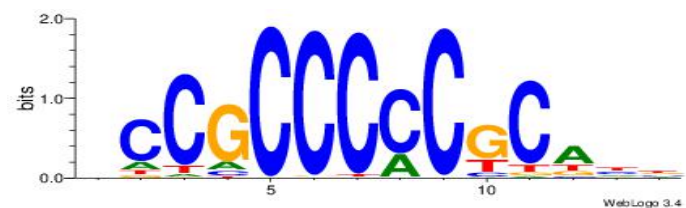


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00727533

Alignment:
 HCCGCCCCCGCAHB
 -YCGCCCACGCH--

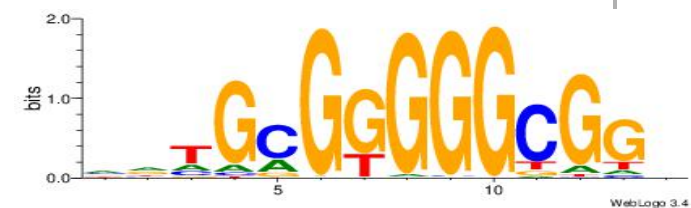
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00538](#)

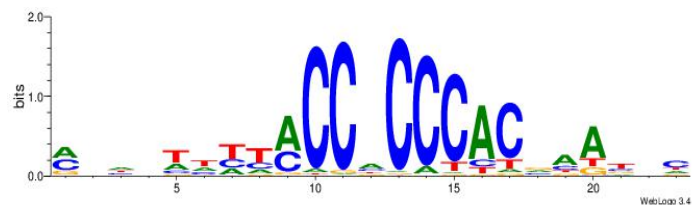
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0262579

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----YCGCCCACGCH---

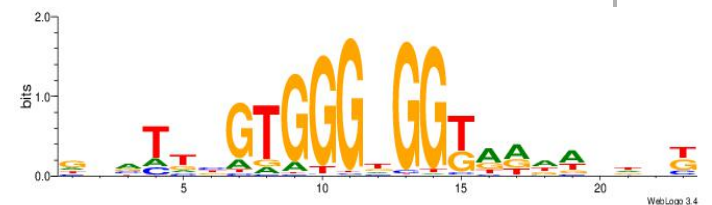
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

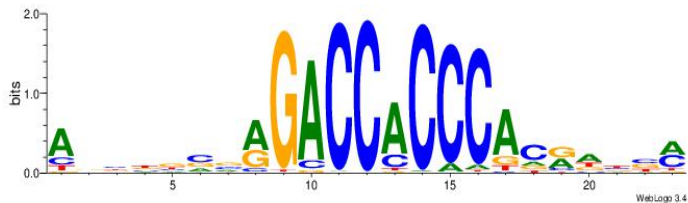


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11

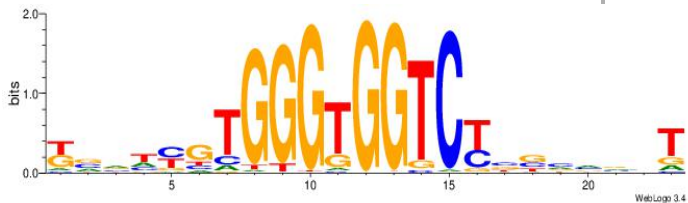
Similarity score: 0.0297053

Alignment:
YBVDMGTGGGTGGTCKVVBVBBT
--HCGGTGGGCGK-----

Original motif
Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif
Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT

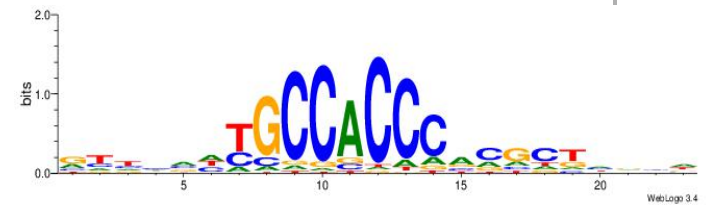
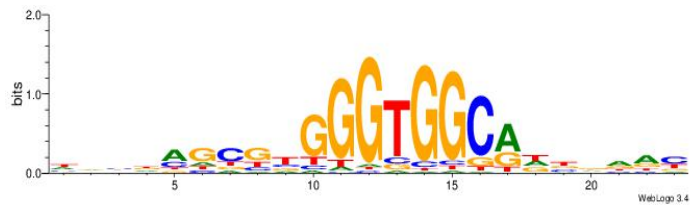


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0318144

Alignment:
HVBDAGCGBGGGTGGCRDBDDDB
----HCGGTGGGCGK-----

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

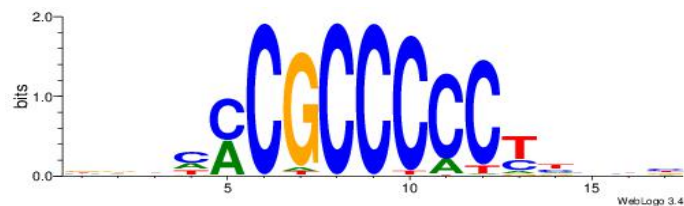
Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



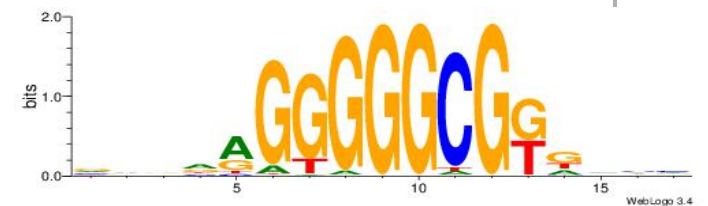
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0345009

Alignment:
 BVVHAGGGGGCGRDHHB
 --HGCGTGGGCGK----

Original motif
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif
 Consensus sequence: BVVHAGGGGGCGRDHHB



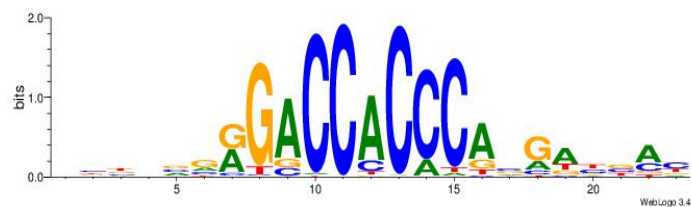
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0353502

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
 ---HGCCTGGGCGK-----

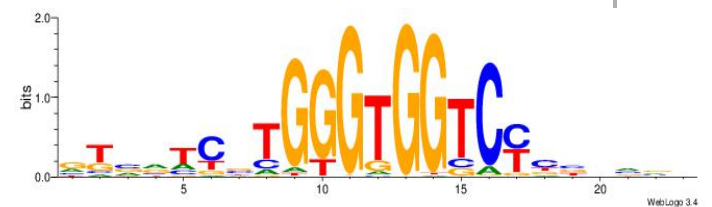
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



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: 3

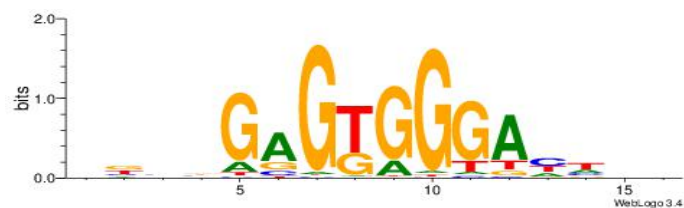
Number of overlap: 11
Similarity score: 0.0360229

Alignment:

BHHDTCCTCACTCBDBV
--YCGCCCACGCH---

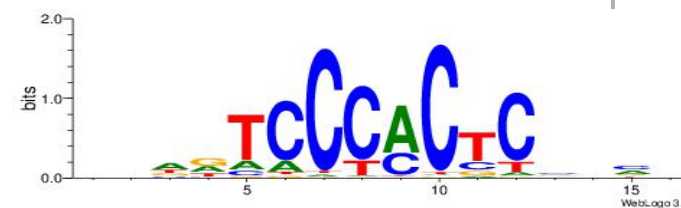
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



Motif ID: [UP00540](#)
Motif name: Gli3_v016060_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: 11
Similarity score: 0.0362743

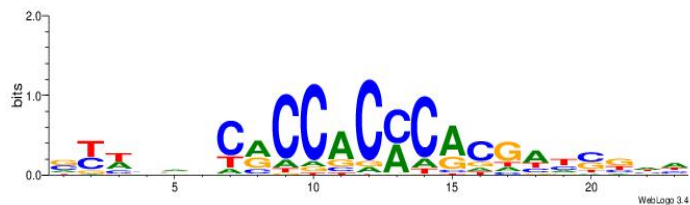
Alignment:

VYWVVHCRCCACMCACGAHSBHH
-----YCGCCCACGCH-----

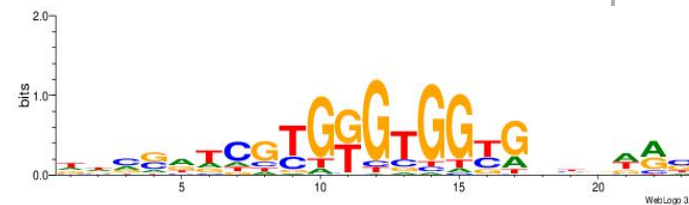
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



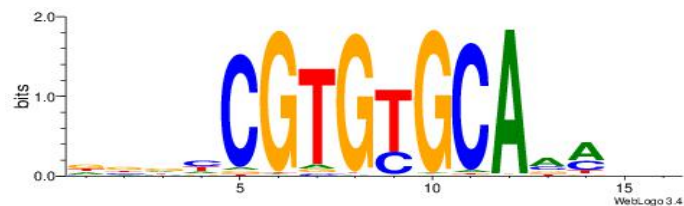
Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0386944

Alignment:

```
HDYTTGCACACGDHBH  
---YCGCCCACGCH--
```

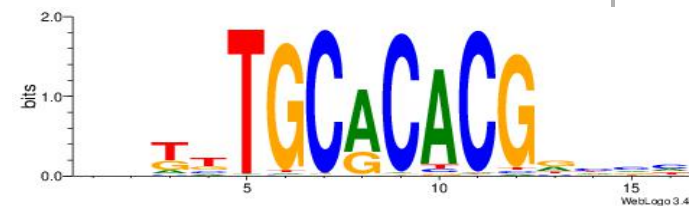
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

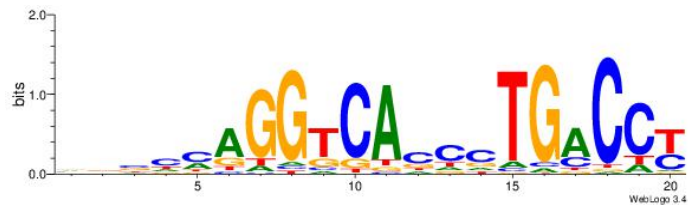
Consensus sequence: HDYTTGCACACGDHBH



Dataset #: 2 **Motif ID: 29** **Motif name: ESR1**

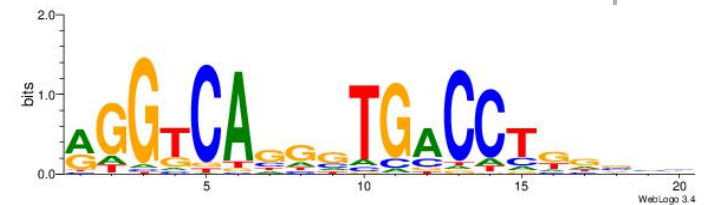
Original motif

Consensus sequence: VDBHMAGGTCACCCTGACCY



Reverse complement motif

Consensus sequence: MGGTCAGGGTGACCTRDBHV



Best Matches for Motif ID 29 (Highest to Lowest)

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:	4
Number of overlap:	20
Similarity score:	0.0658405

Alignment:

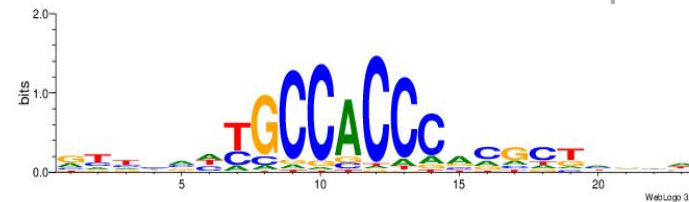
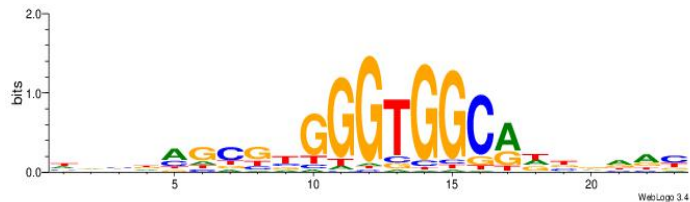
```
BDDHVDKGCCACCCVCGCTDBVH
VDBHMAGGTCACCCTGACCY---
```

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



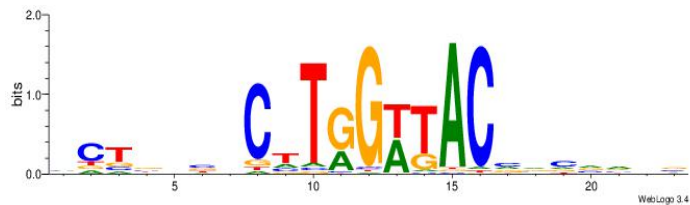
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0689748

Alignment:

VCTBHBVCTTGGWTACVVVVVDB
 VDBHMAGGTCACCCTGACCY---

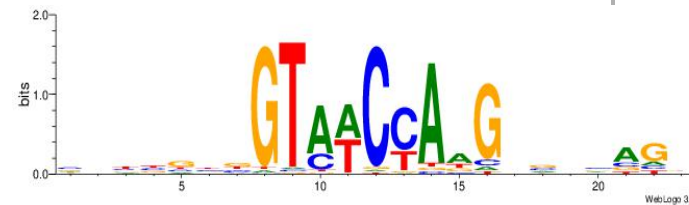
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary

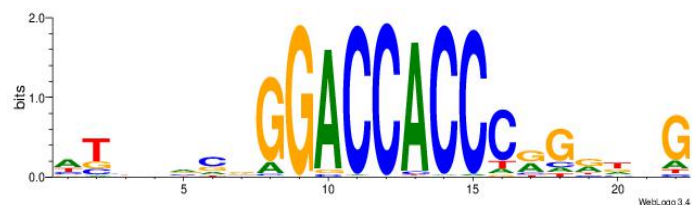
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0701247

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 MGGTCAGGGTGACCTRDBHV--

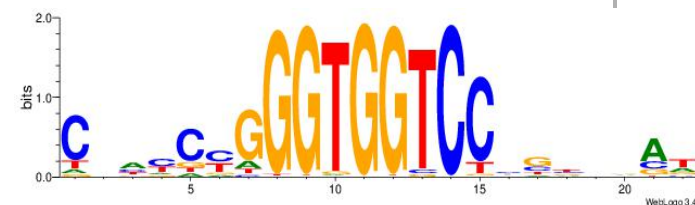
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



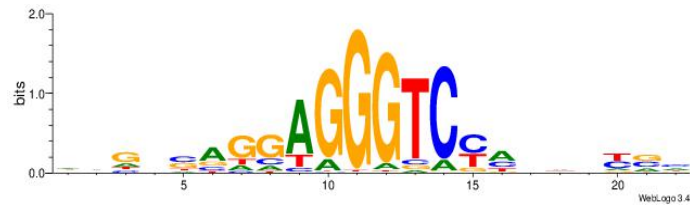
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0711267

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
MGGTCAGGGTGACCTRDBHV--

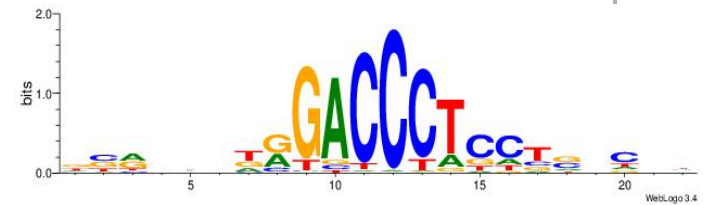
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



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:	2
Number of overlap:	20
Similarity score:	0.0742427

Alignment:

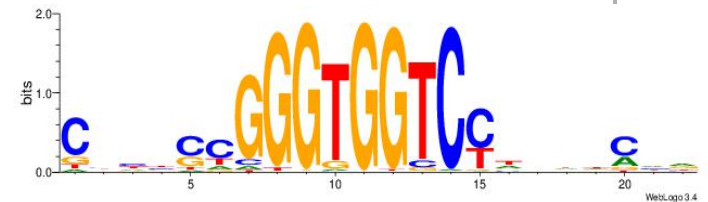
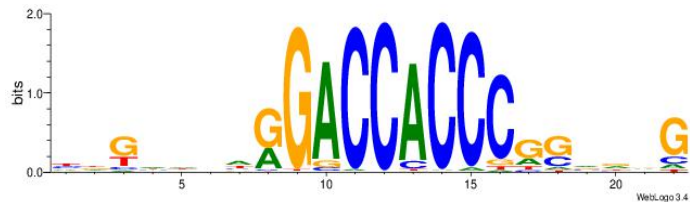
CVHBSCGGGTGGTCMHVHHCDH
-VDBHMAGGTCACCCTGACCY-

Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG

Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



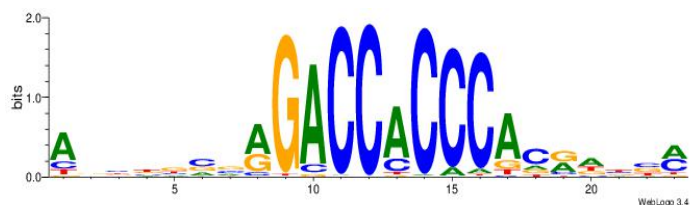
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0747053

Alignment:

ABBBBVVRGACCACCCACRDBBM
 --VDBHMAGGTCACCCTGACCY-

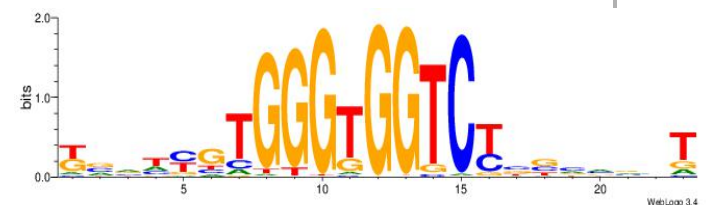
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00538](#)

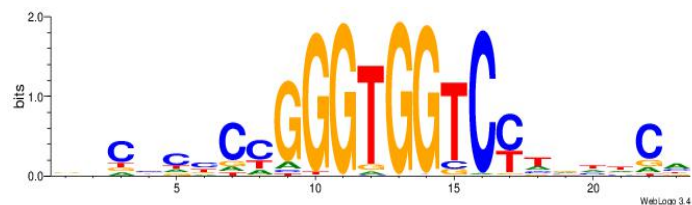
Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0749165

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 ---VDBHMAGGTCACCCTGACCY

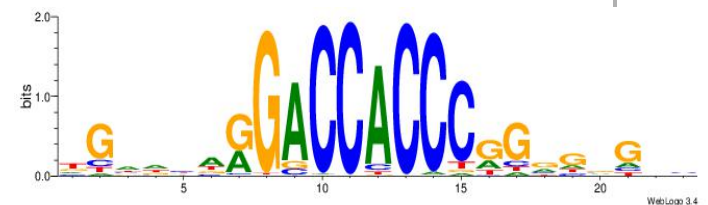
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

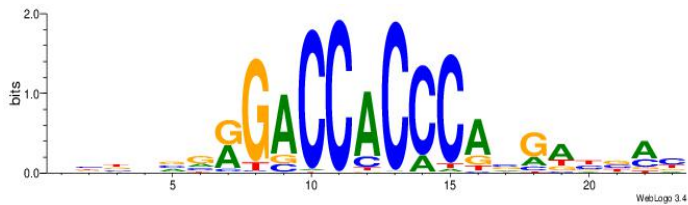


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 20

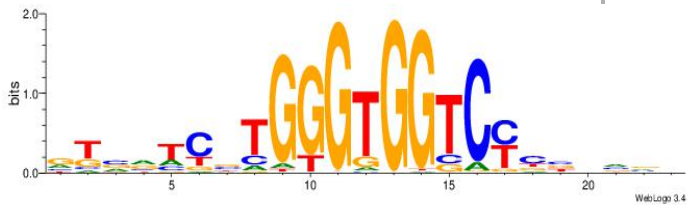
Similarity score: 0.0759307

Alignment:
BBBDVVRGACCACCCAVGABBAB
-VDBHMAGGTCACCCTGACCY--

Original motif
Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

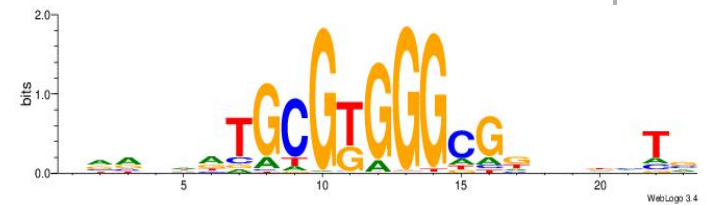
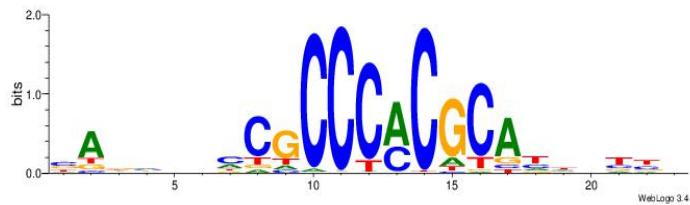


Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0762689

Alignment:
VVVDHHTGCGYGGGCGDHVHHTB
-MGGTCAGGGTGACCTRDBHV--

Original motif
Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

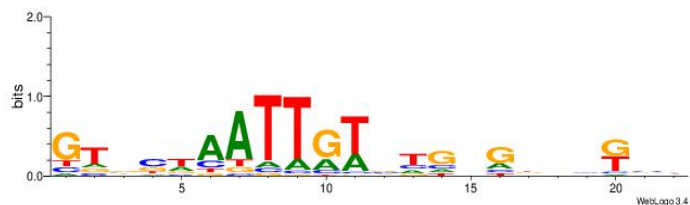
Reverse complement motif
Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB



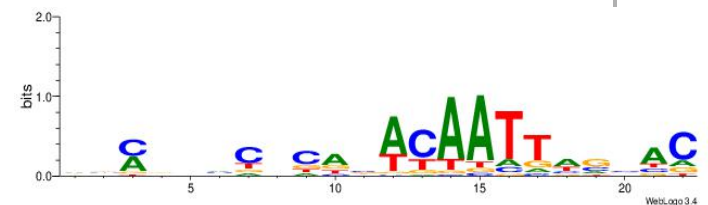
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0780113

Alignment:
 GTVBDAATTGTVTGHGDDHKVB
 VDBHMAGGTCACCCTGACCY--

Original motif
 Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



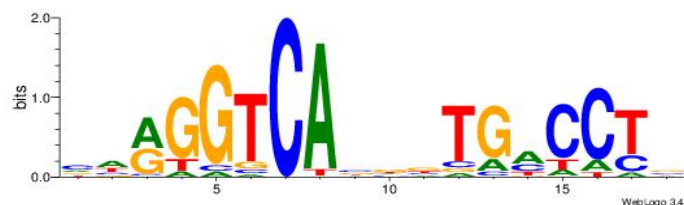
Reverse complement motif
 Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Dataset #: 2 Motif ID: 30 Motif name: ESR2

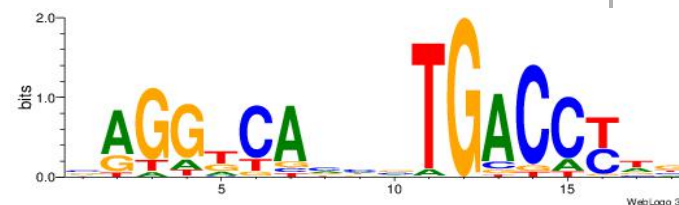
Original motif

Consensus sequence: VHRGGTCABDBTGM CCTB



Reverse complement motif

Consensus sequence: BAGGYCABHBTGACCKHV



Best Matches for Motif ID 30 (Highest to Lowest)

Motif ID:	UP00034
Motif name:	Sox7_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0443894

Alignment:

GTVBDAATTGTVTGHGDDHKVB

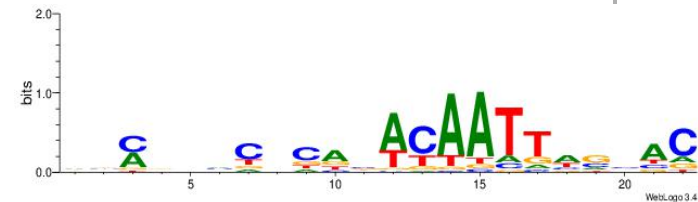
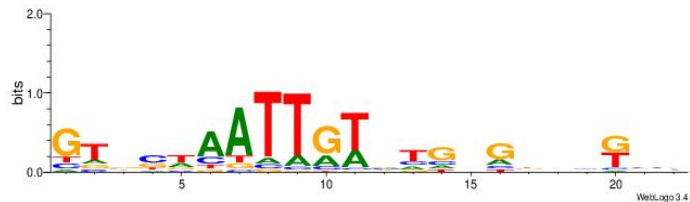
---VHRGGTCABDBTGM CCTB-

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

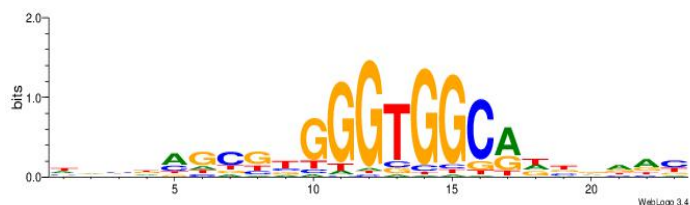


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.049219

Alignment:
 BDDHVDKGCCACCCVCGCTDBVH
 ---VHRGGTCABDBTGMCTB--

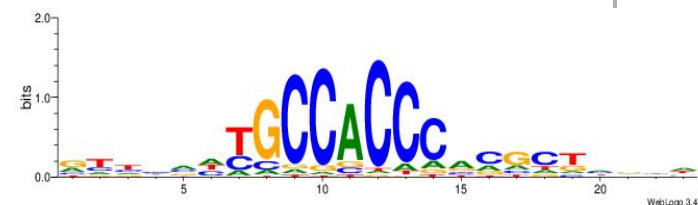
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00050](#)

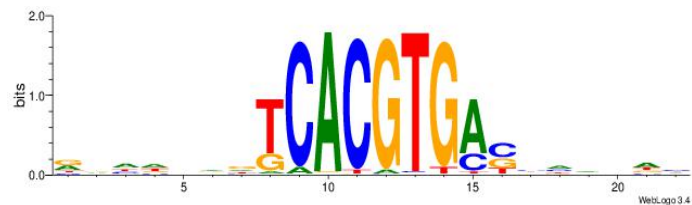
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0509182

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 --VHRGGTCABDBTGMCTB--

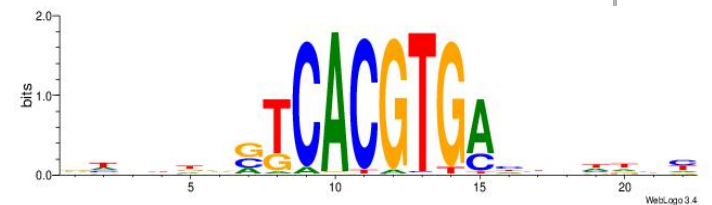
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM

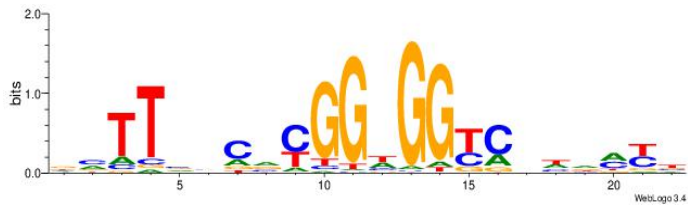


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 18

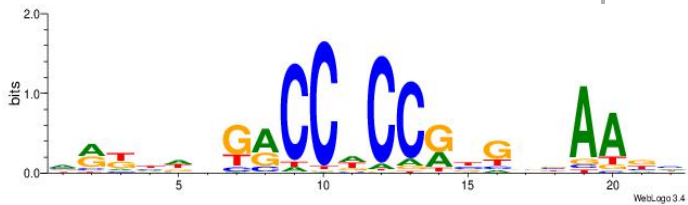
Similarity score: 0.0527075

Alignment:
DVTTVVCVYGGHGGYCHHDMYB
-BAGGYCABHBTGACCKHV---

Original motif
Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif
Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH

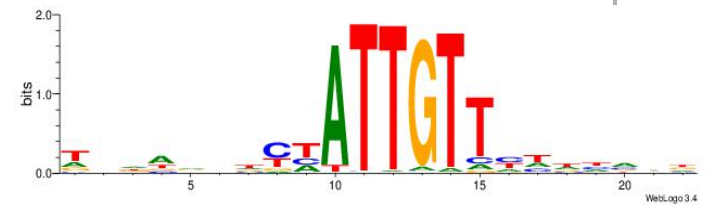
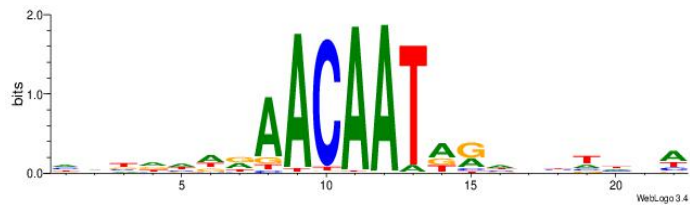


Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.0541044

Alignment:
WBHHHHHMDATTGTTHDHDVHH
-BAGGYCABHBTGACCKHV---

Original motif
Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



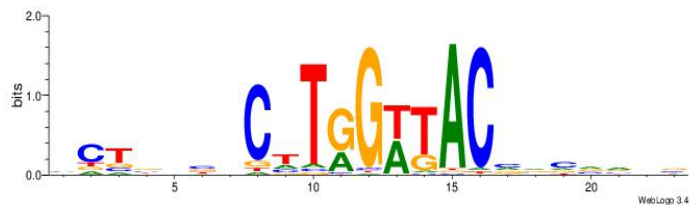
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0541108

Alignment:

VCTBHBVCTTGGWTACVVVVVDB
 --BAGGYCABHBTGACCKHV---

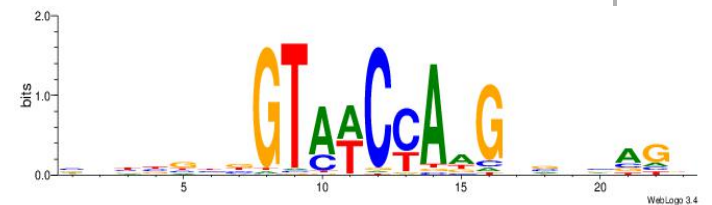
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



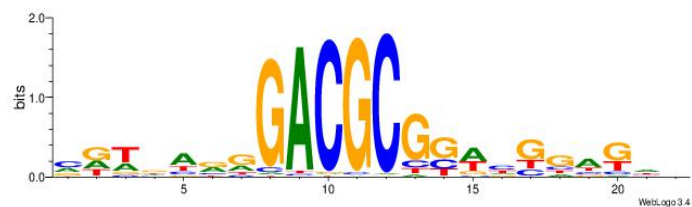
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0543733

Alignment:

VDWDARRGACGCGGWHGGAHV
 ---VHRGGTCABDBTGMCTB-

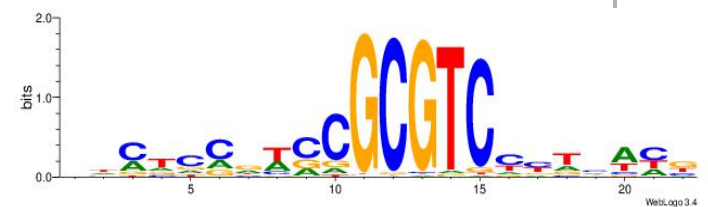
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV

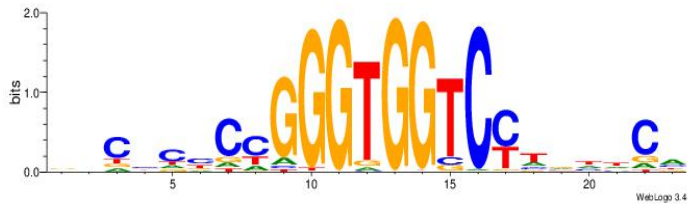


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5

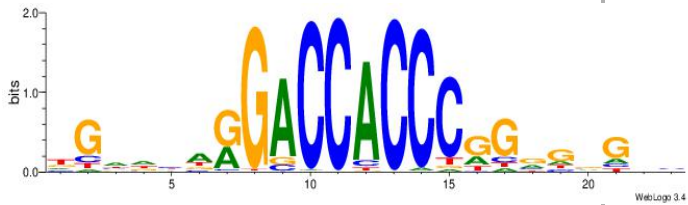
Number of overlap: 18
Similarity score: 0.0548087

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
-BAGGYCABHBTGACCKHV-----

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif
Consensus sequence: HGDHVKHKGACCACCCGGBGBGDB



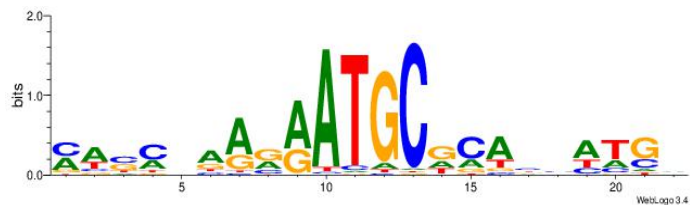
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 18
Similarity score: 0.055453

Alignment:
DCATDBTGHGCATKMTTBRSWR
----VHRGGTCABDBTGMCTB

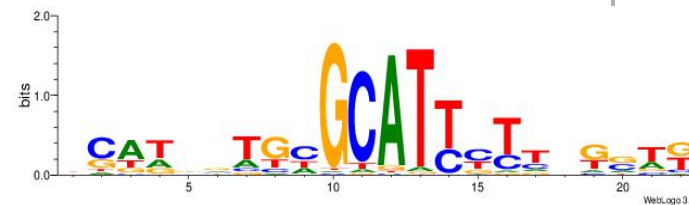
Original motif

Reverse complement motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



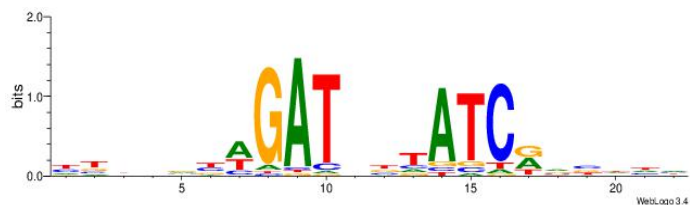
Motif ID: [UP00032](#)
Motif name: Gata3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 18
Similarity score: 0.0566426

Alignment:

HBHDVBWGATHBTATCRVBHHH
-VHRGGTCABDBTGMCTB---

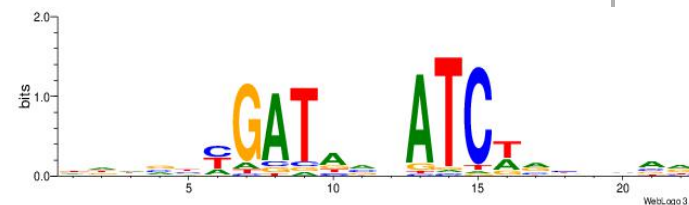
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



Dataset #: 2 **Motif ID: 31** **Motif name: Esrrb**

Original motif

Consensus sequence: CACGTG



Reverse complement motif

Consensus sequence: CACGTG



Best Matches for Motif ID 31 (Highest to Lowest)

Motif ID:	UP00050
Motif name:	Bhlhb2_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	6
Similarity score:	0

Alignment:

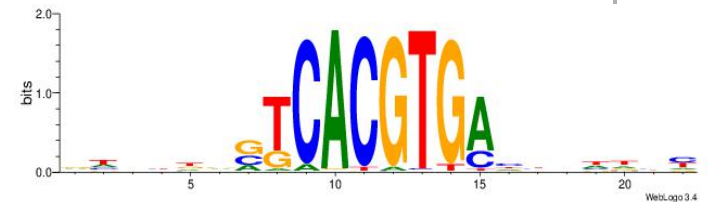
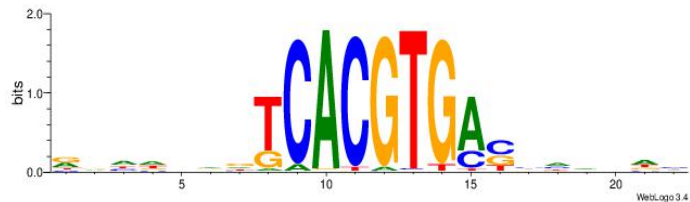
```
RDHDBVDTACGTGASBHVHDH
-----CACGTG-----
```

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH

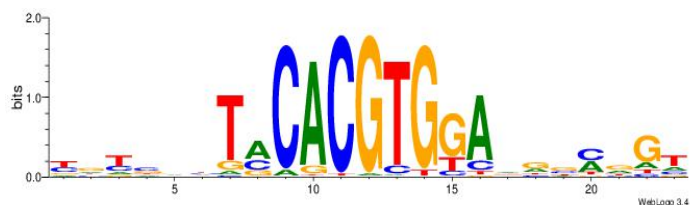


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.0026425

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----CACGTG-----

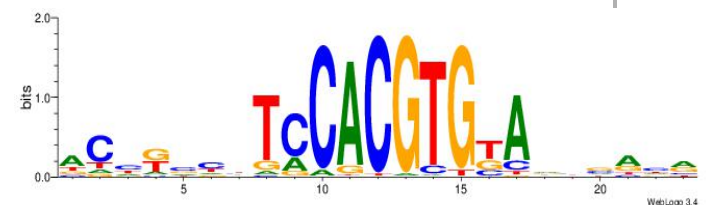
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00060](#)

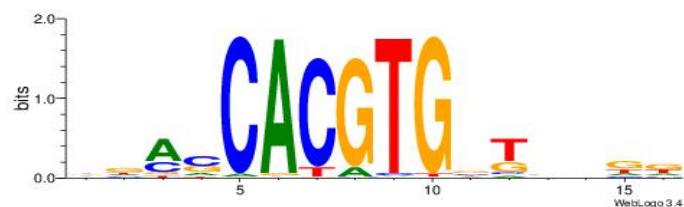
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	6
Similarity score:	0.0044422

Alignment:

```
DDASCACGTGBTBVDD
----CACGTG-----
```

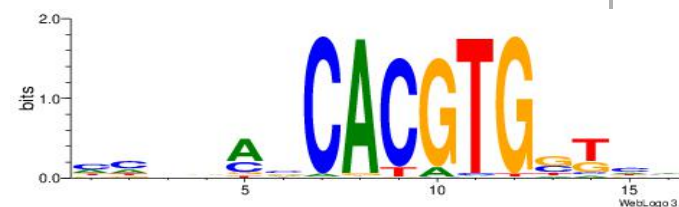
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



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:	Forward
Position number:	7
Number of overlap:	6

Similarity score: 0.0342153

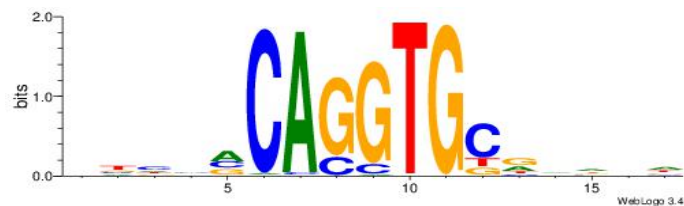
Alignment:

DHDBHGCACCTGBDDVB

-----CACGTG-----

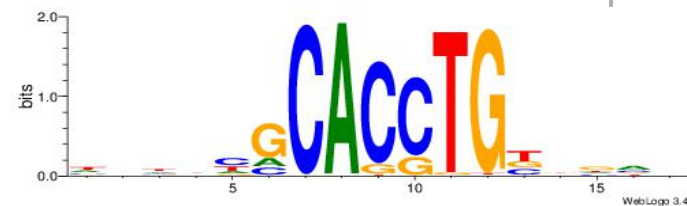
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00097](#)

Motif name: Mtf1_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 9

Number of overlap: 6

Similarity score: 0.0471928

Alignment:

HDYTTGCACACGDHBH

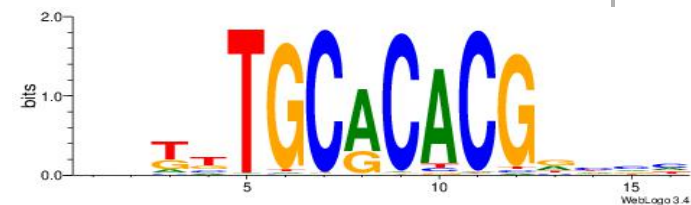
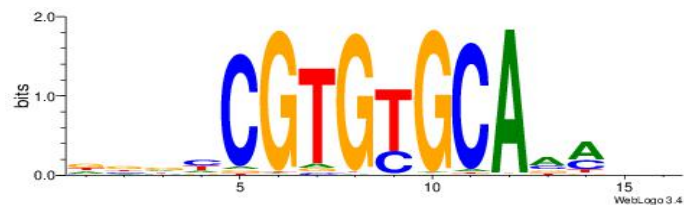
-----CACGTG--

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

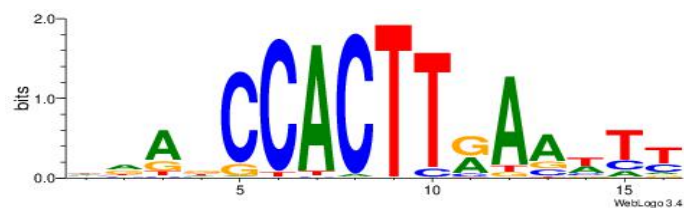
Consensus sequence: HDYTTGCACACGDHBH



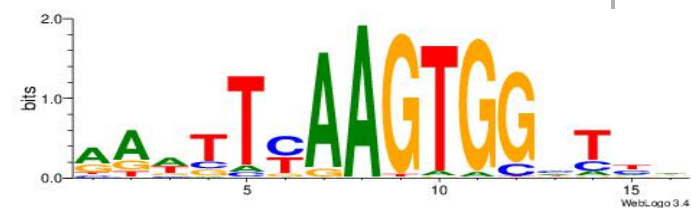
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0482749

Alignment:
 HDADCCACTTTRAAWTT
 -----CACGTG-----

Original motif
 Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif
 Consensus sequence: AAWTTMAAGTGGHTDH

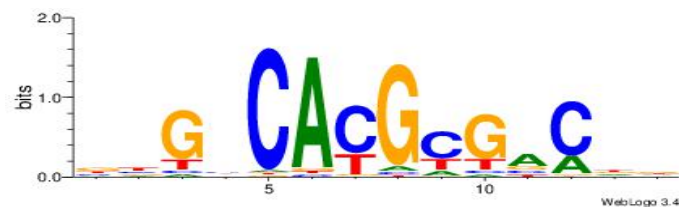


Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.0485437

Alignment:
 BBGHCACGCGACDD
 ----CACGTG----

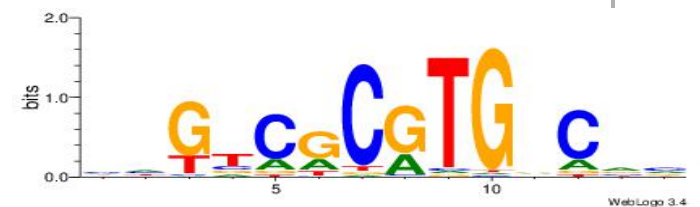
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



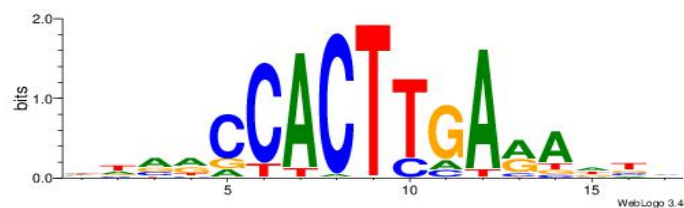
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7

Number of overlap: 6
Similarity score: 0.0497234

Alignment:
DVDTKTCAAGTGGKBDH
-----CACGTG-----

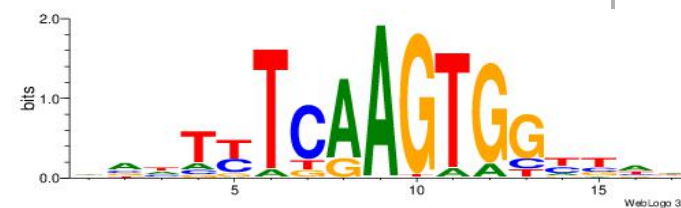
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



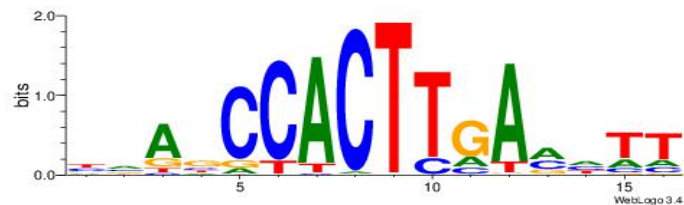
Motif ID: [UP00165](#)
Motif name: Titf1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0498919

Alignment:
AAHYTCAAGTGGTBV
-----CACGTG-----

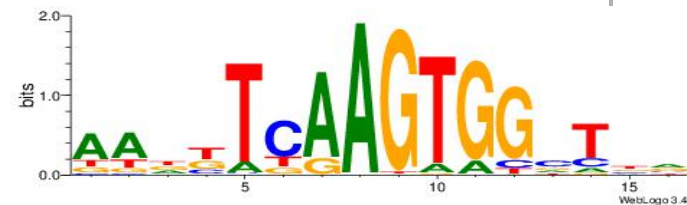
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



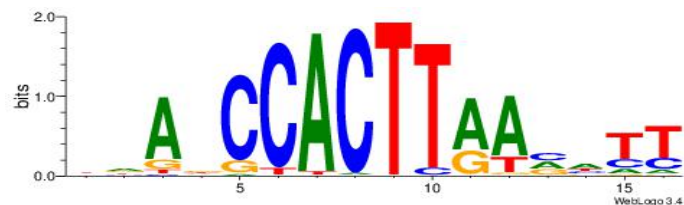
Motif ID: [UP00147](#)
Motif name: Nkx2-6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.0544601

Alignment:

DDADCCACTTAAVHTT
-----CACGTG-----

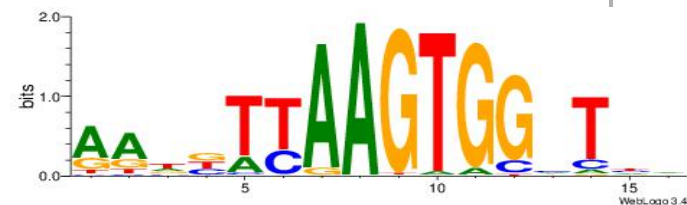
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

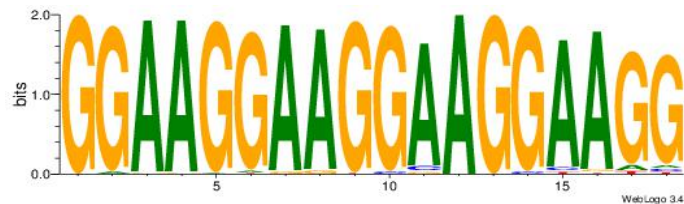
Consensus sequence: AAHVTTAAGTGGHTDD



Dataset #: 2 **Motif ID: 32** **Motif name: EWSR1-FLI1**

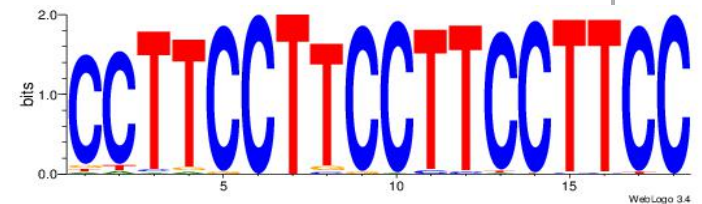
Original motif

Consensus sequence: GGAAGGAAGGAAGGAAGG



Reverse complement motif

Consensus sequence: CCTTCCTTCCTTCCTTC



Best Matches for Motif ID 32 (Highest to Lowest)

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:	3
Number of overlap:	14
Similarity score:	0.0442834

Alignment:

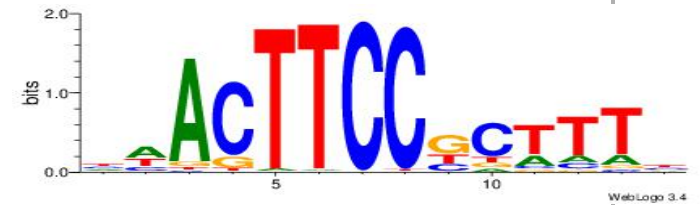
```
-----VAAAGMGGAAAGTWD  
GGAAGGAAGGAAGGAAGG--
```

Original motif

Consensus sequence: VAAAGMGGAAAGTWD

Reverse complement motif

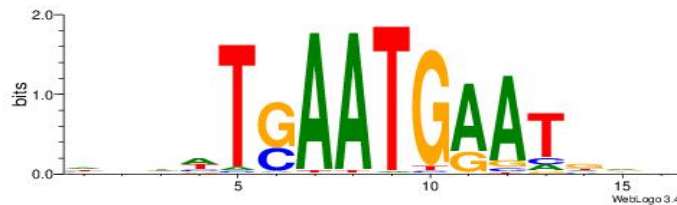
Consensus sequence: DWACTTCCRCTTTB



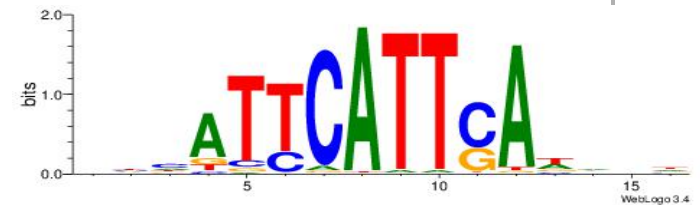
Motif ID: [UP00055](#)
 Motif name: Hbp1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0466226

Alignment:
 ----VDHATTCATTSAWDDH
 CCTTCCTTCCTTCCTTCC----

Original motif
 Consensus sequence: HHDWTSATGAATDDB



Reverse complement motif
 Consensus sequence: VDHATTCATTSAWDDH



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:	3
Number of overlap:	14
Similarity score:	0.047846

Alignment:

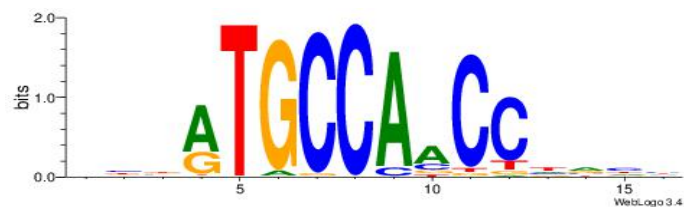
```

-----DDBHGGTTGGCATVBD
GGAAGGAAGGAAGGAAGG--

```

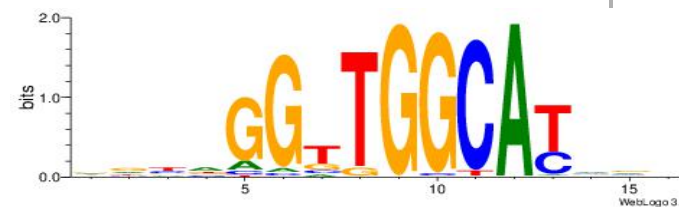
Original motif

Consensus sequence: DBBATGCCAACCHVHH



Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD



Motif ID:	UP00090
Motif name:	Elf3_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:	13
Similarity score:	0.539121

Alignment:

```
-----TDAMTTCCYYDTD  
CCTTCCTTCCTTCCTTCC---
```

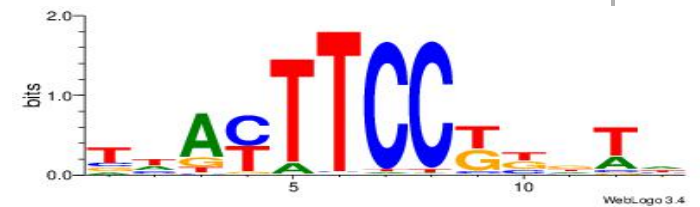
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



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:	5
Number of overlap:	13
Similarity score:	0.547912

Alignment:

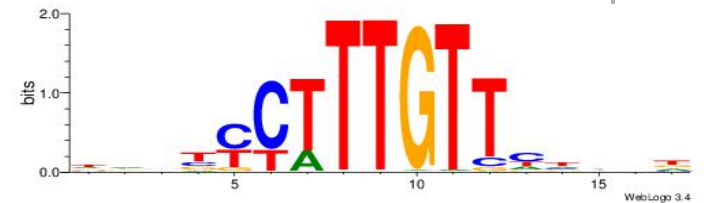
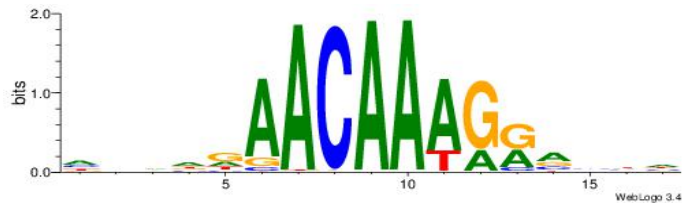
```
HHBBMCTTTGTTHDDBH-----  
-----CCTTCCTTCCTTCCTTCC
```

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 13
 Similarity score: 0.548284

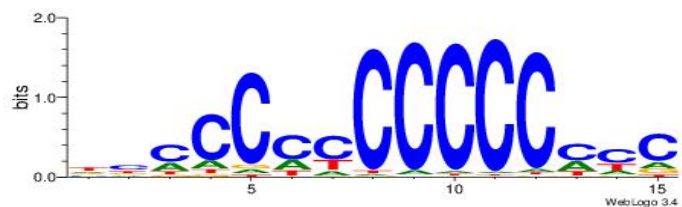
Alignment:

```

-----GKRGGGGGGGGGGBD
GGAAGGAAGGAAGGAAGG--
  
```

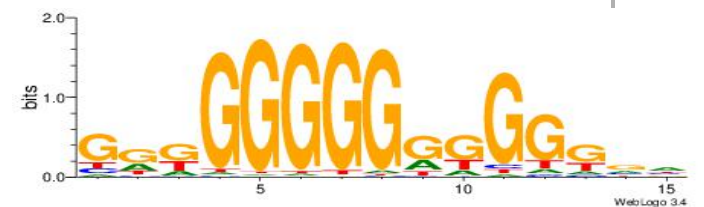
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00030](#)

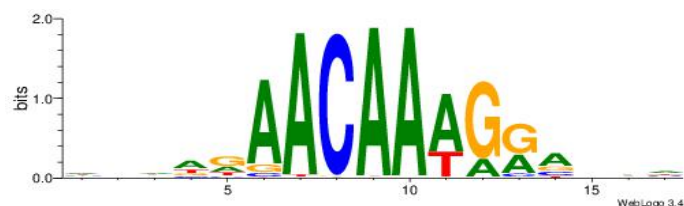
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.54837

Alignment:

-----HHBTMCTTTGTTMDDVH
CCTTCCTTCCTTCCTTCC-----

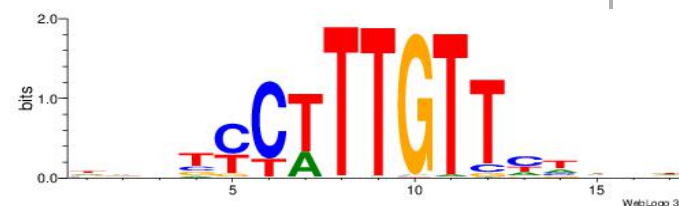
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



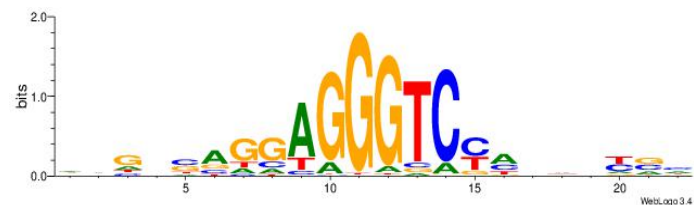
Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 1.04069

Alignment:

HVGVSAGGAGGGTCYHHHHYVH-----
 -----GGAAGGAAGGAAGGAAGG-----

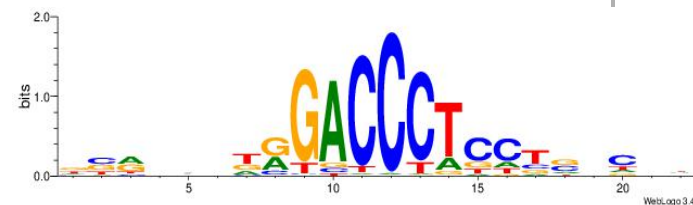
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID:	UP00409
Motif name:	Elf5
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:	12
Similarity score:	1.04159

Alignment:

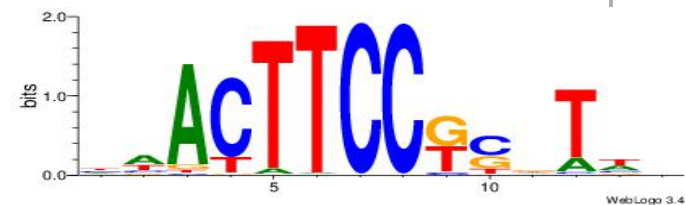
-----BWAHSMGGAAGTWD
 GGAAGGAAGGAAGGAAGG--

Original motif

Consensus sequence: BWAHSMGGAAGTWD

Reverse complement motif

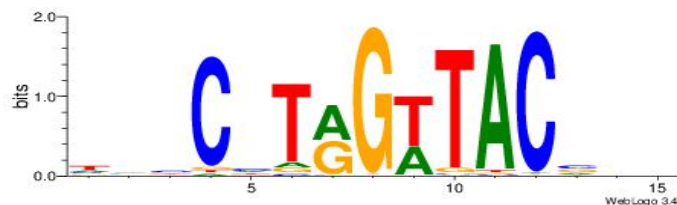
Consensus sequence: DWACTTCCRSDTWV



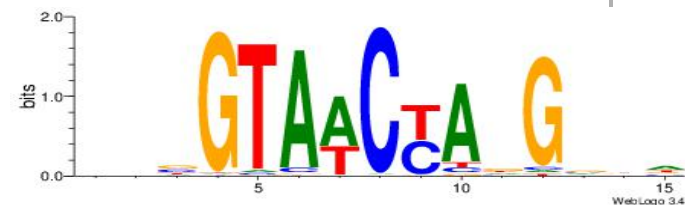
Motif ID: [UP00056](#)
 Motif name: Rfx4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 12
 Similarity score: 1.04349

Alignment:
 -----HHBCHTRGWTACVVH
 GGAAGGAAGGAAGGAAGG-----

Original motif
 Consensus sequence: HHBCHTRGWTACVVH



Reverse complement motif
 Consensus sequence: HVVGTAWCKADGBHH



Dataset #: 2 Motif ID: 33 Motif name: HIF1AARNT

Original motif

Consensus sequence: VBACGTGV



Reverse complement motif

Consensus sequence: VCACGTBV



Best Matches for Motif ID 33 (Highest to Lowest)

Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0

Alignment:

HDYTTGCACACGDHBH

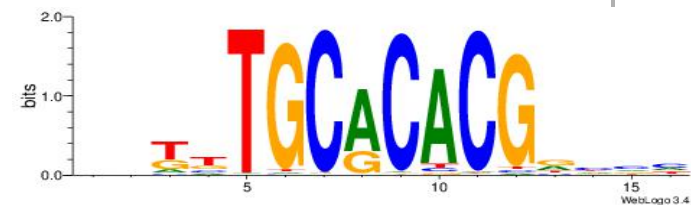
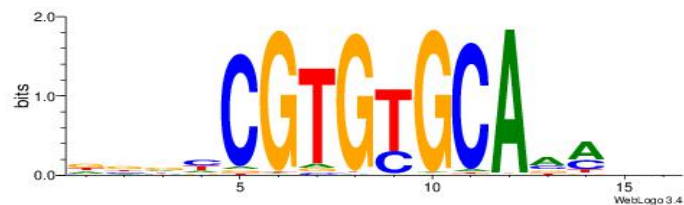
-----VCACGTBV-

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH

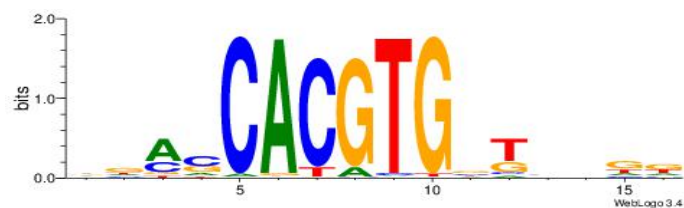


Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000574345

Alignment:
 HHVBABCACGTGSTHD
 -----VCACGTBV---

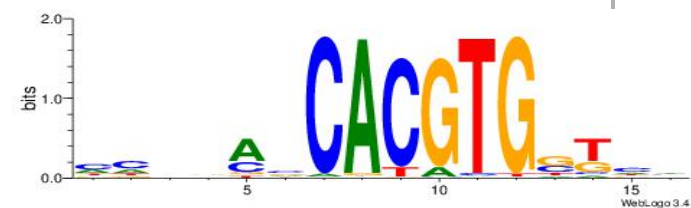
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)

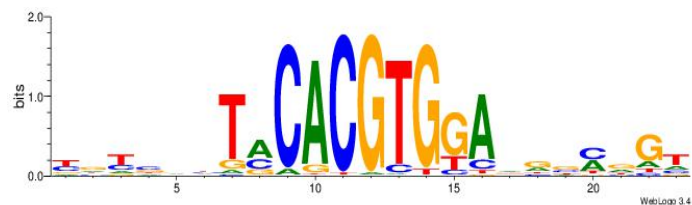
Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.00642455

Alignment:

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

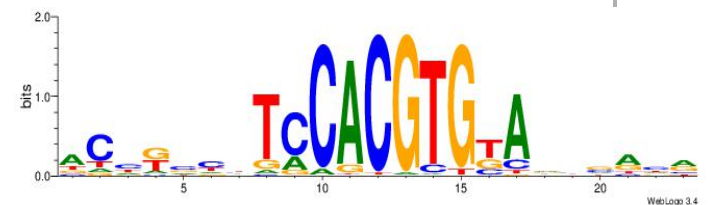
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



Motif ID: [UP00084](#)
 Motif name: Gmeb1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8

Similarity score: 0.0131171

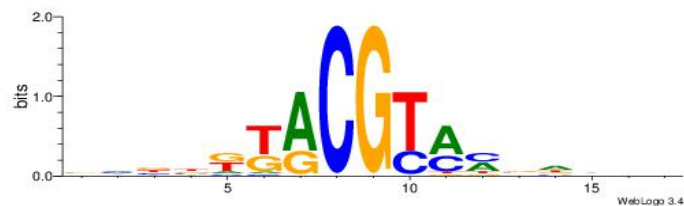
Alignment:

BVVDVRYACGTRYVBHB

-----VBACGTGV-----

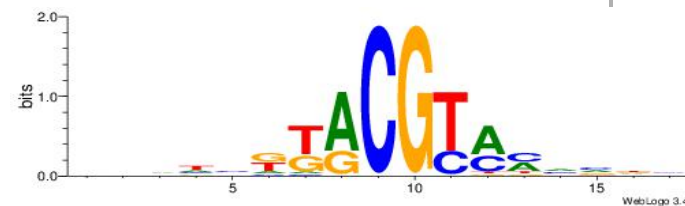
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



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

Alignment:

RDHDBVDTACGTGASBHVHDH

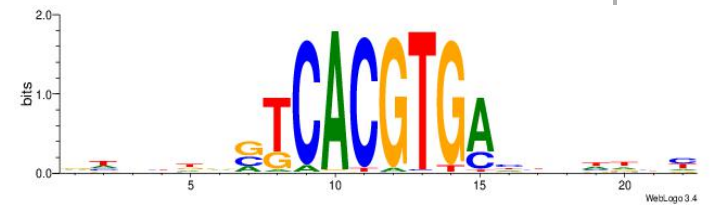
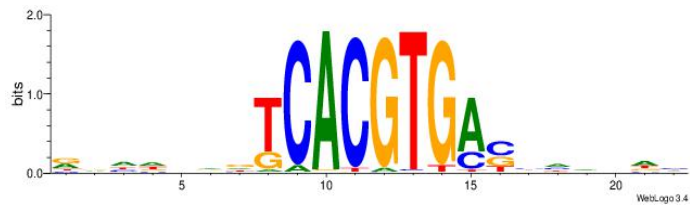
-----VCACGTBV-----

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

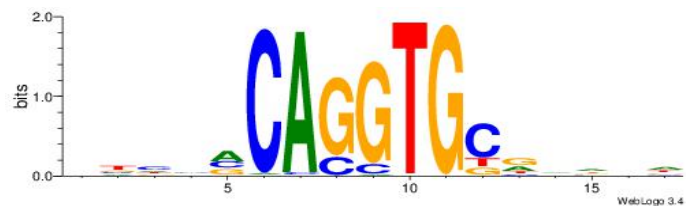
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



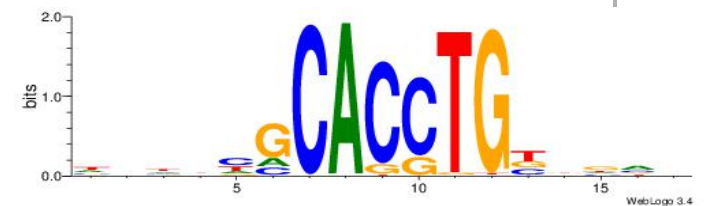
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0184296

Alignment:
 VBHHVCAGGTGCDVDHD
 ----VBACGTGV-----

Original motif
 Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
 Consensus sequence: DHDBHGCACCTGBDDVB



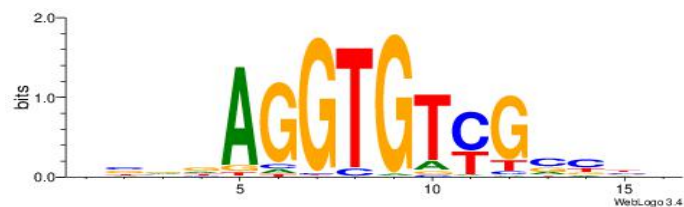
Motif ID: [UP00068](#)
 Motif name: Eomes_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV
 -----VCACGTBV--

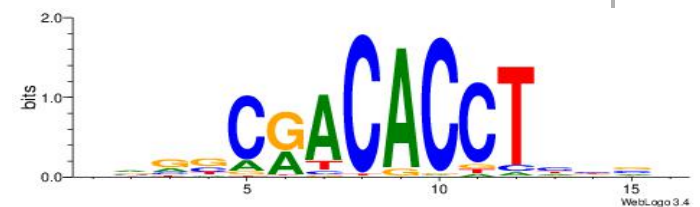
Original motif

Consensus sequence: VBVDAGGTGTGYVBBV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV



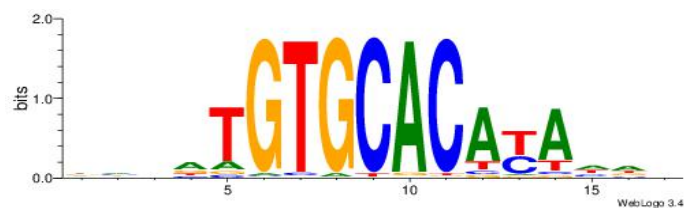
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9

Number of overlap: 8
Similarity score: 0.0189568

Alignment:
DHVDTGTGCACAYAHDH
-VBACGTGV-----

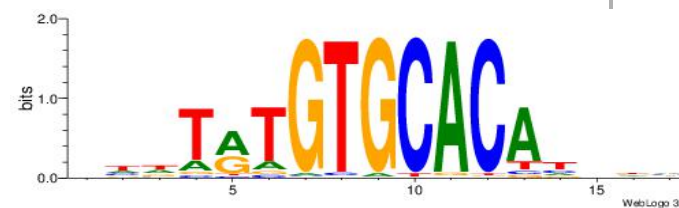
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



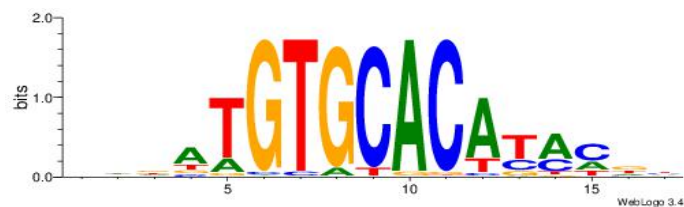
Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0198987

Alignment:
HHRTATGTGCACATHHD
--VBACGTGV-----

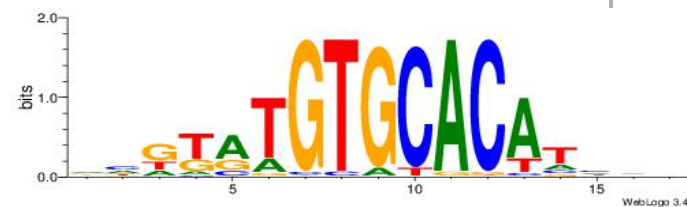
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.021967

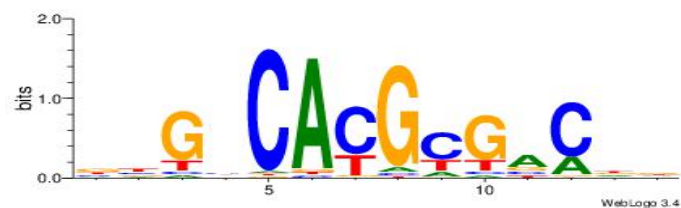
Alignment:

BBGHCACGCGACDD

---VCACGTBV---

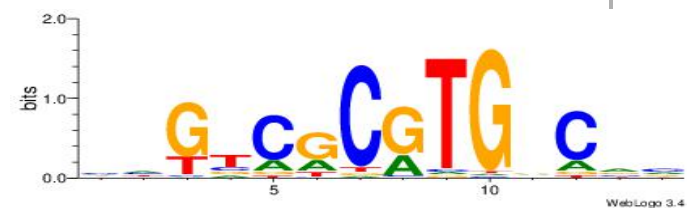
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

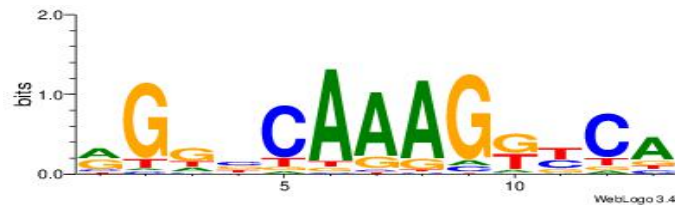
Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 2 **Motif ID: 34** **Motif name: HNF4A**

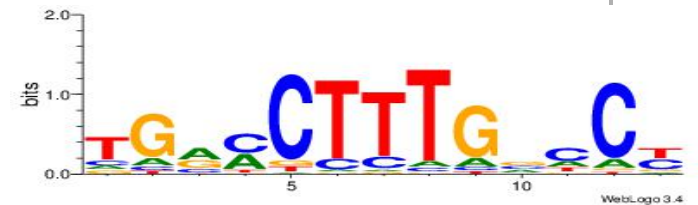
Original motif

Consensus sequence: RGGBCAAAGKYCA



Reverse complement motif

Consensus sequence: TGM YCTTTGBCKK



Best Matches for Motif ID 34 (Highest to Lowest)

Motif ID:	UP00058
Motif name:	Tcf3_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:	0.0357776

Alignment:

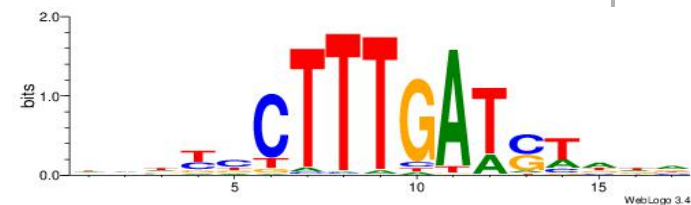
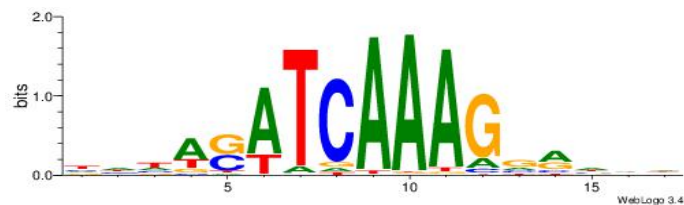
```
HHHASATCAAAGVRHHH
---RGGBCAAAGKYCA--
```

Original motif

Consensus sequence: HHHASATCAAAGVRHHH

Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH

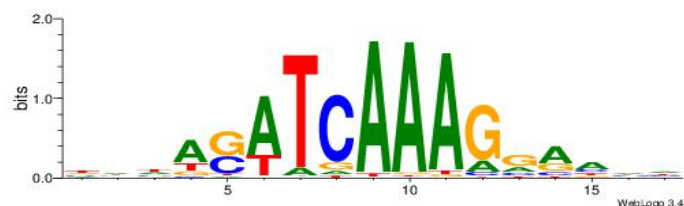


Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0357792

Alignment:
 BHHASATCAAAGGAHHH
 ---RGGBCAAAGKYCA-

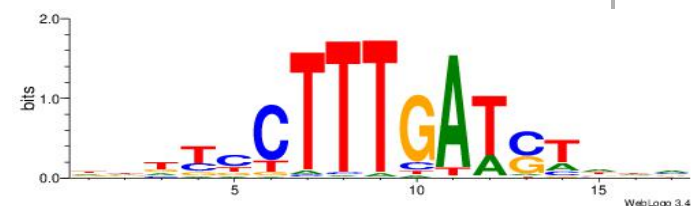
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



Motif ID: [UP00067](#)

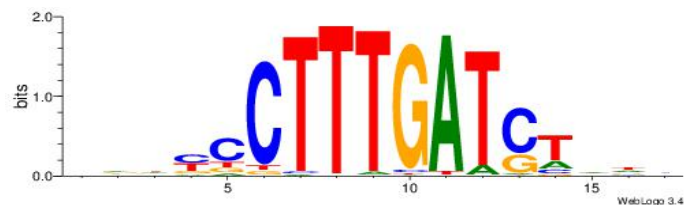
Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 13
 Similarity score: 0.0359011

Alignment:

VDDAGATCAAAGGKDDD
 ---RGGBCAAAGKYCA-

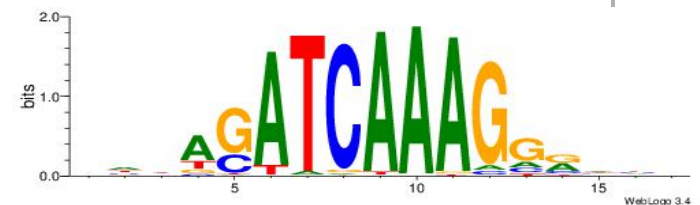
Original motif

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: Backward
 Position number: 2
 Number of overlap: 13

Similarity score: 0.0360786

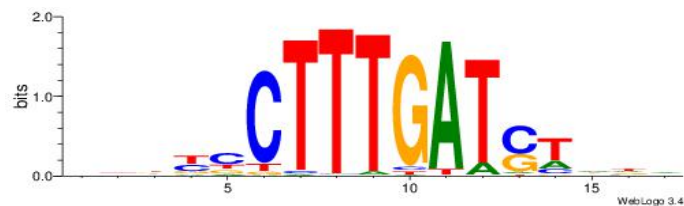
Alignment:

BDDASATCAAAGGMDDD

---RGGBCAAAGKYCA-

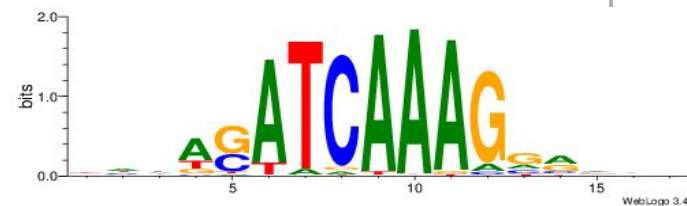
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



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: 4
Number of overlap: 13
Similarity score: 0.0405764

Alignment:

HVDDVCAGATGKYHBBV

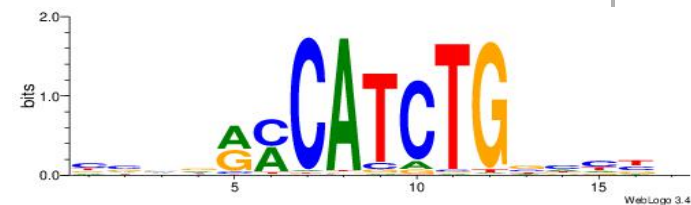
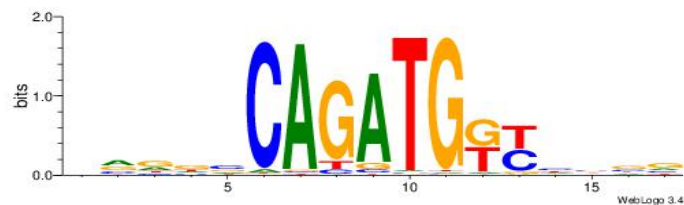
-RGGBCAAAGKYCA---

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

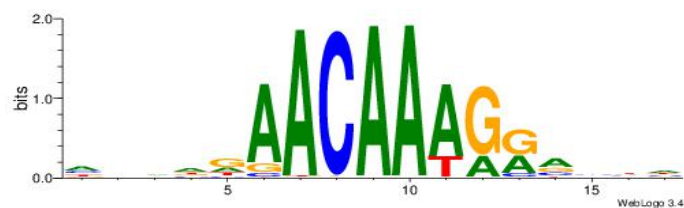
Consensus sequence: VBBDMYCATCTGVHBBH



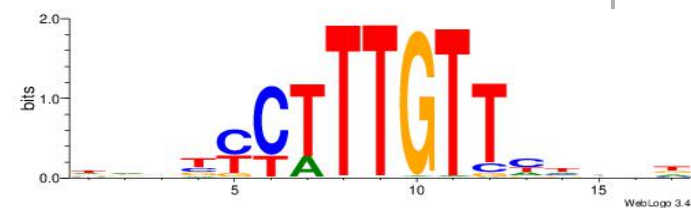
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0409915

Alignment:
 HHBBMCTTTGTTHDDBH
 -TGM YCTTTGBCK---

Original motif
 Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif
 Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00101](#)

Motif name:	Sox12_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:	13
Similarity score:	0.0413218

Alignment:

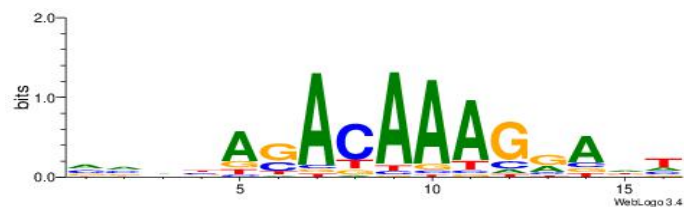
```

HDTMCTTTGTSTVDBB
TGM YCTTTGBCK---

```

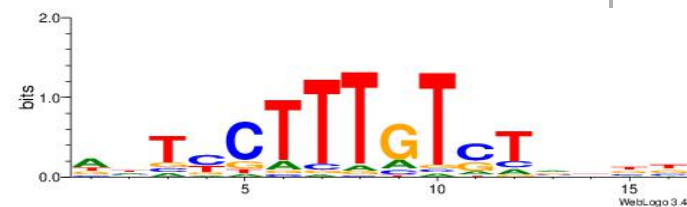
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



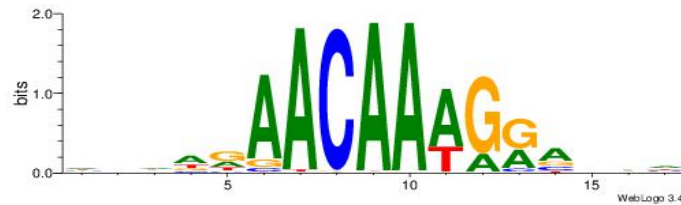
Motif ID:	UP00030
Motif name:	Sox11_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0421105

Alignment:

HHBTMCTTTGTTMDDVH
-TGMCTTTGBCK---

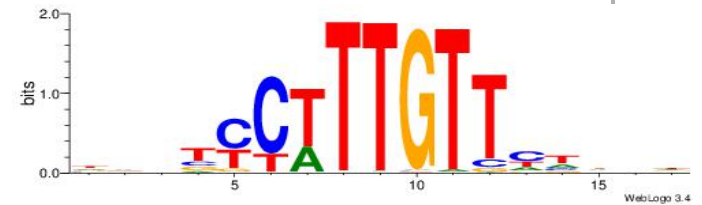
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID:	UP00086
Motif name:	Irf3_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:	13
Similarity score:	0.0442004

Alignment:

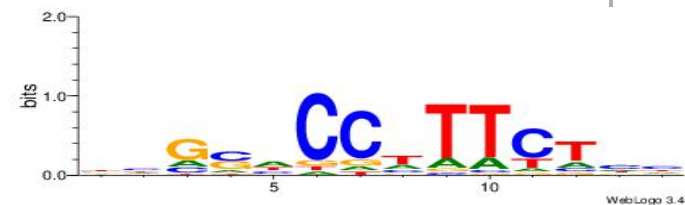
DDAGAADGGDSCDV
RGGBCAAAGKYCA-

Original motif

Consensus sequence: DDAGAADGGDSCDV

Reverse complement motif

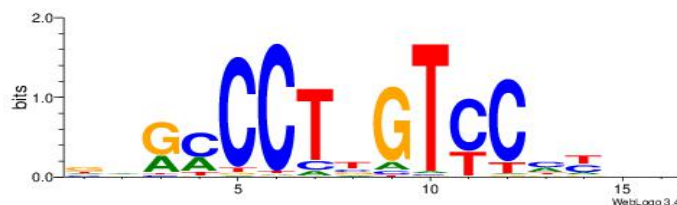
Consensus sequence: BHGSDCCDTTCTHH



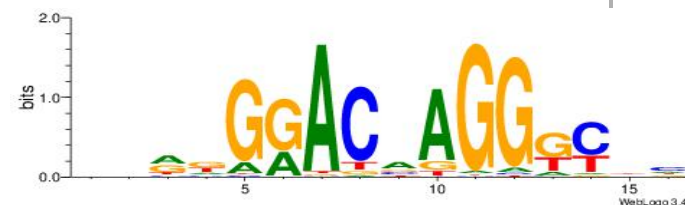
Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 13
 Similarity score: 0.0446884

Alignment:
 VHMDGGACVAGGRCDH
 ---RGGBCAAAGKYCA

Original motif
 Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif
 Consensus sequence: VHMDGGACVAGGRCDH



Dataset #: 2 Motif ID: 35 Motif name: INSM1

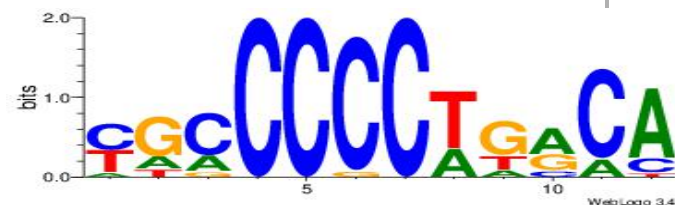
Original motif

Consensus sequence: TGYCAGGGGGCR



Reverse complement motif

Consensus sequence: MGCCCCCTGMCA



Best Matches for Motif ID 35 (Highest to Lowest)

Motif ID:	UP00022
Motif name:	Zfp740_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:	12
Similarity score:	0.00085101

Alignment:

HVKDCCGGGGGGWADDD

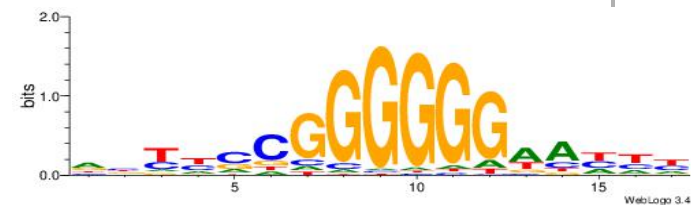
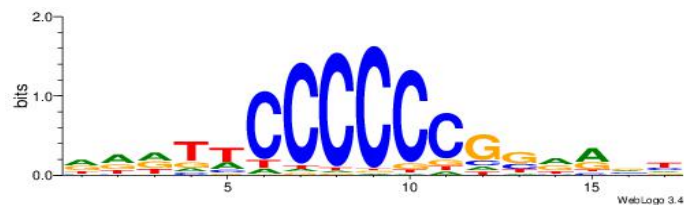
--TGYCAGGGGGCR---

Original motif

Consensus sequence: DDDTWCCCCCGGDRVH

Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD

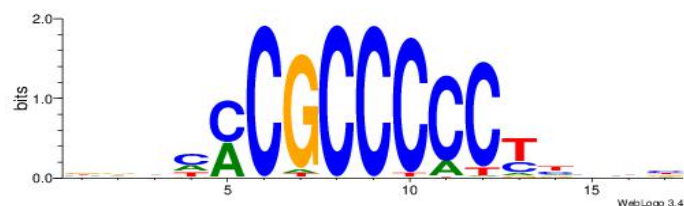


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 12
 Similarity score: 0.00406431

Alignment:
 BVVHAGGGGGCGRDHBB
 TGYCAGGGGGCR-----

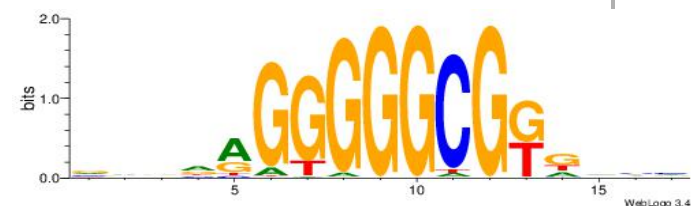
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00047](#)

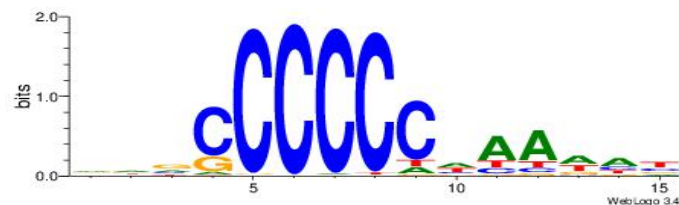
Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.00486866

Alignment:

VHWTTGGGGGGVDD
 --TGYCAGGGGGCR--

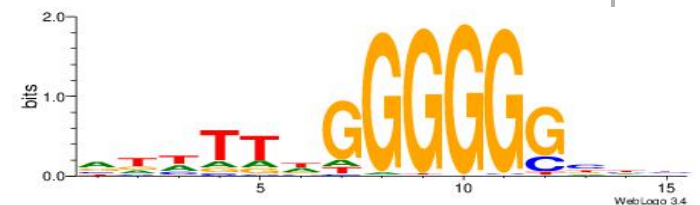
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTGGGGGGVDD

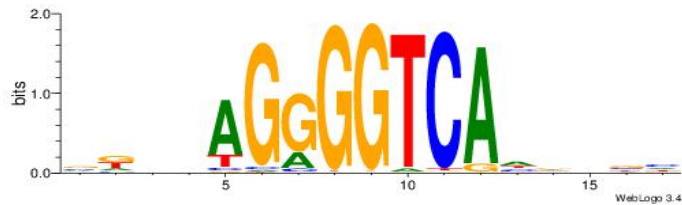


Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 12

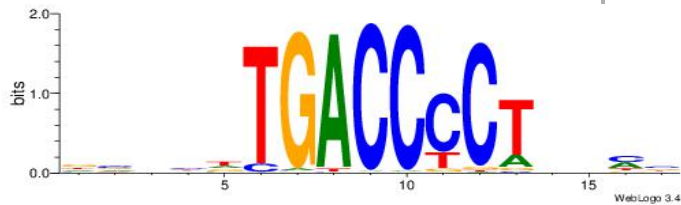
Similarity score: 0.00862553

Alignment:
VKBBAGGGGTCAHDBBH
TGYCAGGGGGCR-----

Original motif
Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif
Consensus sequence: DBBHHTGACCCCTBBYV

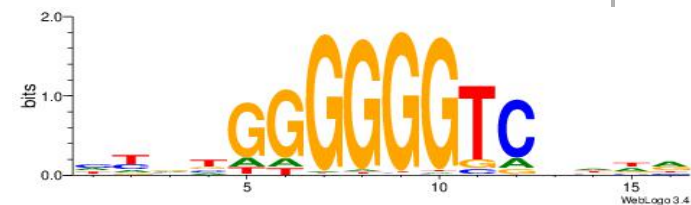
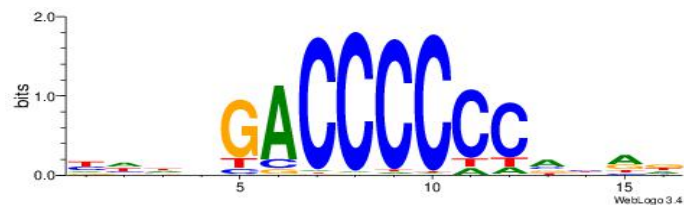


Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.00936306

Alignment:
HKBBGGGGGGTGVHHH
-TGYCAGGGGGCR---

Original motif
Consensus sequence: HHHVGACCCCCCVBRD

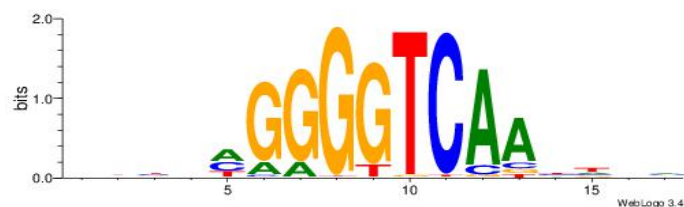
Reverse complement motif
Consensus sequence: HKBBGGGGGGTGVHHH



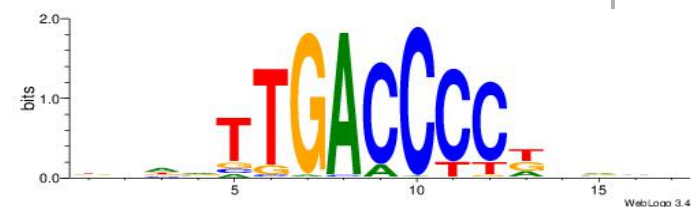
Motif ID: [UP00066](#)
 Motif name: Hnf4a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0123592

Alignment:
 BDBVMGGGGTCAABHDV
 TGYCAGGGGGCR-----

Original motif
 Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif
 Consensus sequence: BHHVTTGACCCCYVVD



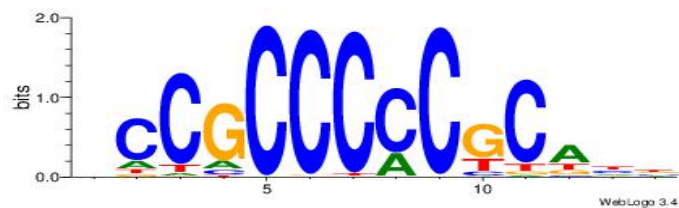
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0155167

Alignment:

HCCGCCCCCGCAHB
 --MGCCCCCTGMCA

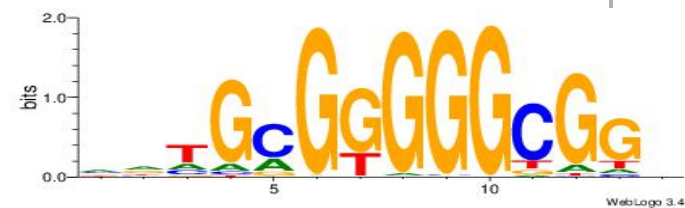
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH

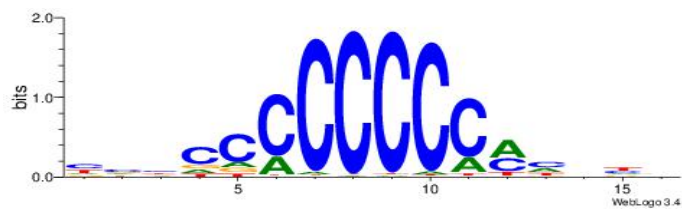


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2

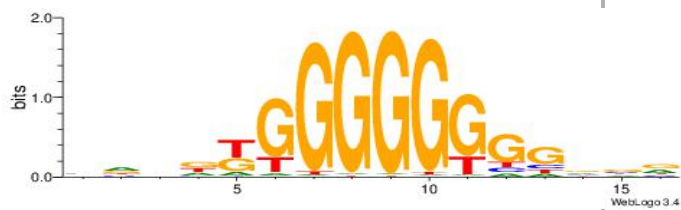
Number of overlap: 12
Similarity score: 0.0176638

Alignment:
HVBCCCCCCCCMHHHB
---MGCCCCCTGMCA-

Original motif
Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif
Consensus sequence: BHHDYGGGGGGGGGBVD

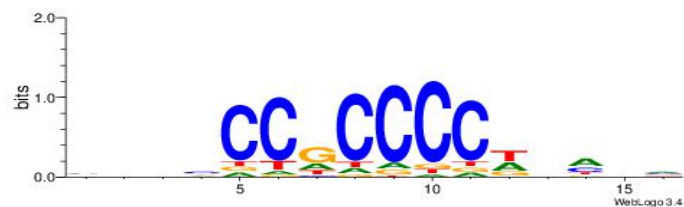


Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0182432

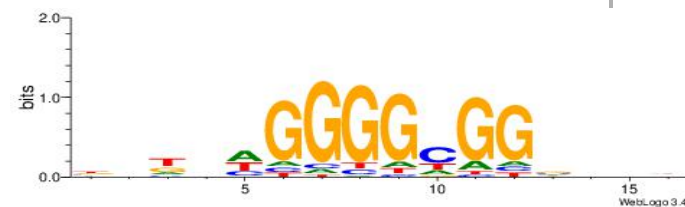
Alignment:
BHHHWGGGGCGGBBVH
TGYCAGGGGGGCR----

Original motif Reverse complement motif

Consensus sequence: HBBBCCGCCCCWHHHV



Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00070](#)
Motif name: Gcm1_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: 12
Similarity score: 0.0200587

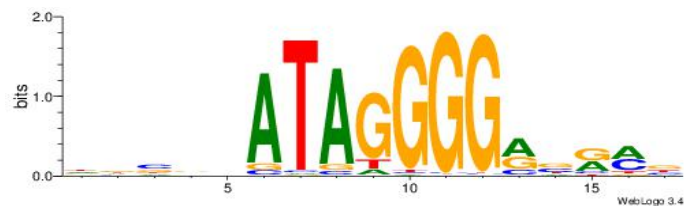
Alignment:

BYMBKCCCCTATDVBHD

--MGCCCCCTGMCA---

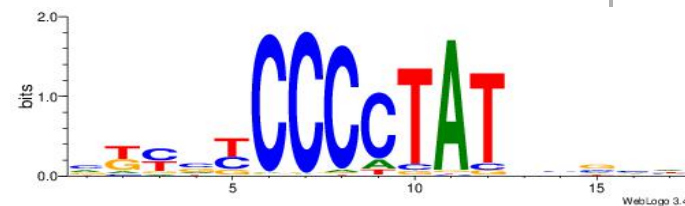
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

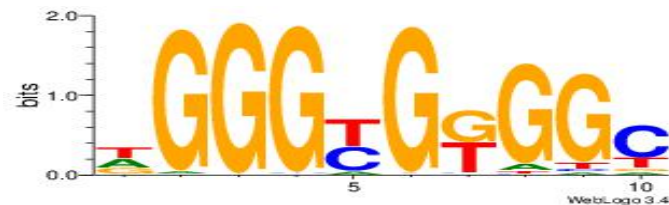
Consensus sequence: BYMBKCCCCTATDVBHD



Dataset #: 2 **Motif ID: 36** **Motif name: Klf4**

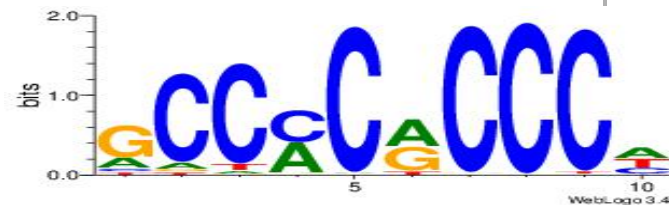
Original motif

Consensus sequence: DGGGYGKGCC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 36 (Highest to Lowest)

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

Alignment:

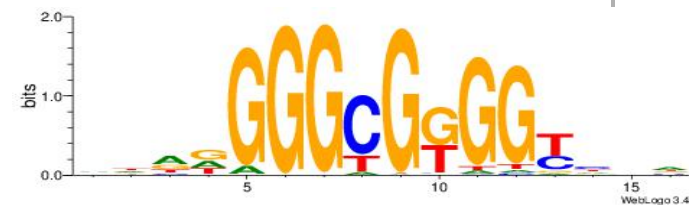
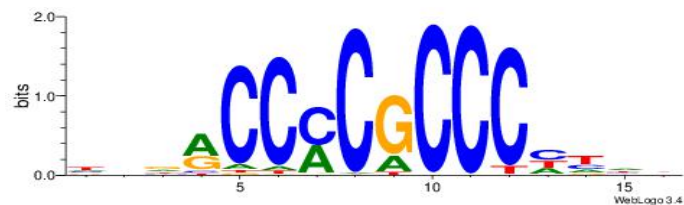
```
DHHDGGGCGRGGKHBH
---DGGGYGKGCC---
```

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

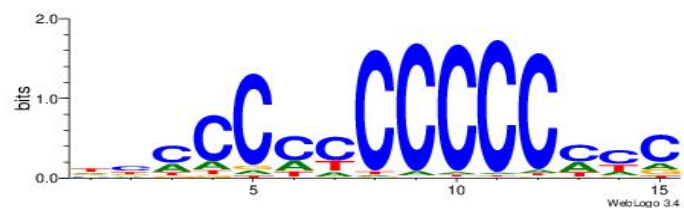


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0153308

Alignment:
 DBCCCCCCCCCMYC
 ---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00002](#)

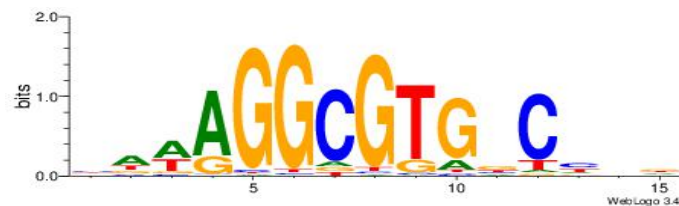
Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0186791

Alignment:

BDWAGGCGTGBCHHD
 --DGGGYGKGGC---

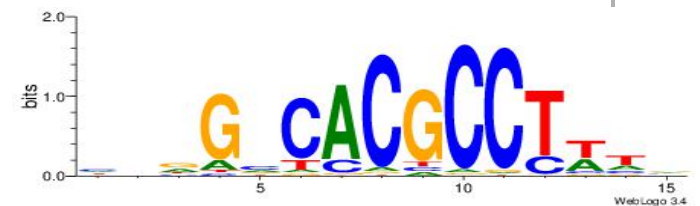
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10

Similarity score: 0.0218399

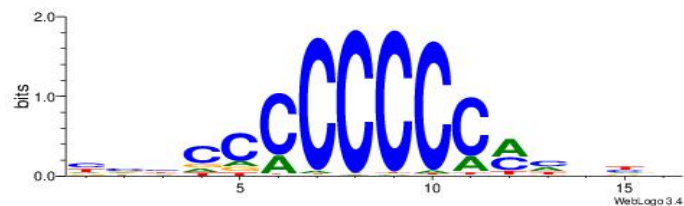
Alignment:

HVBCCCCCCCCMHHHB

--GCCYCMCCCD----

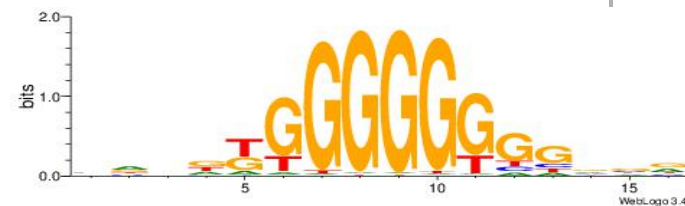
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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

Alignment:

VHTGCGGGGGCGGH

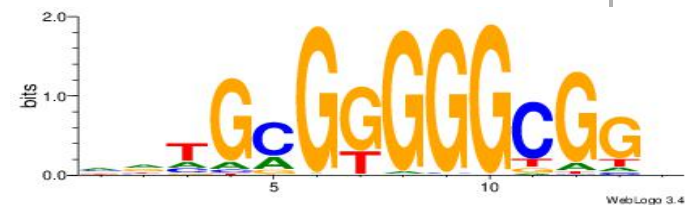
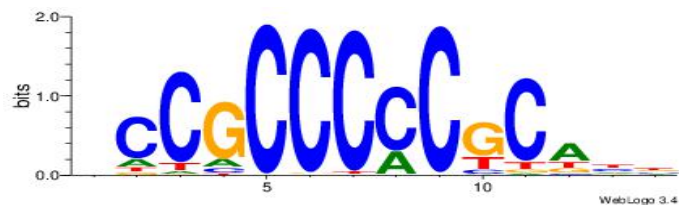
GCCYCMCCCD----

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

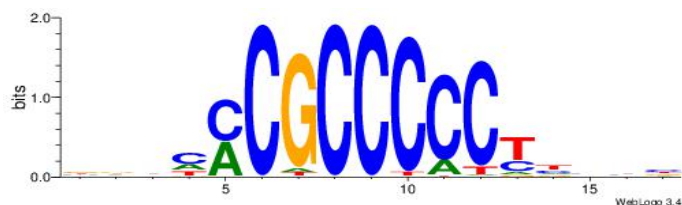
Consensus sequence: VHTGCGGGGGCGGH



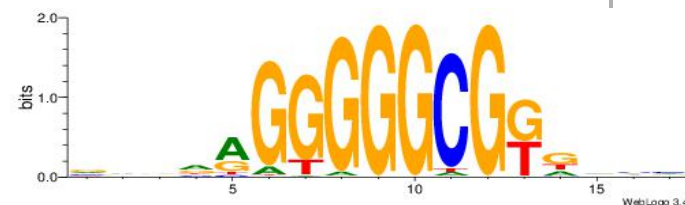
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0299159

Alignment:
 BVVHAGGGGGCGRDHBB
 -----DGGGYGKGGC-

Original motif
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif
 Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00000](#)

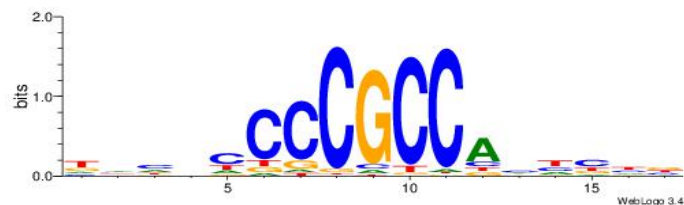
Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0308595

Alignment:

BHBHDTGGCGGGGBDHD
 ----DGGGYGKGGC---

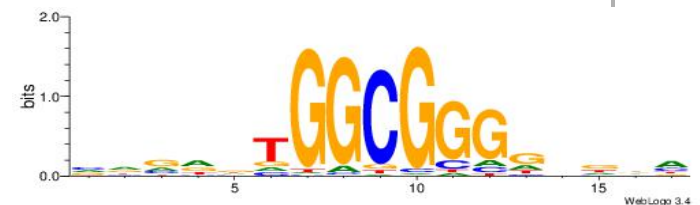
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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: 1
 Number of overlap: 10

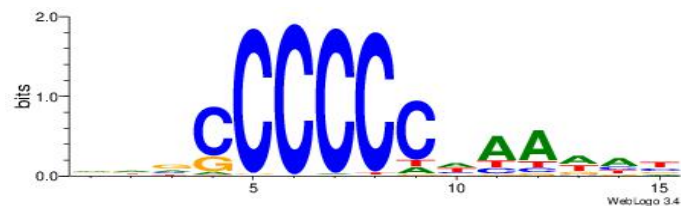
Similarity score: 0.0345891

Alignment:

DDVCCCCCCHAAWHB
GCCYCMCCCD-----

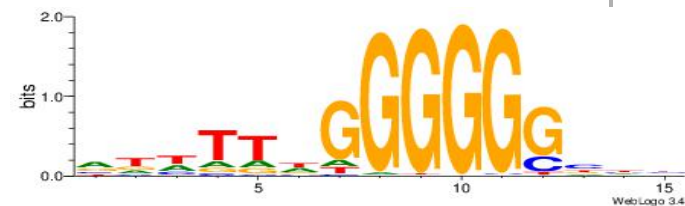
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0346735

Alignment:

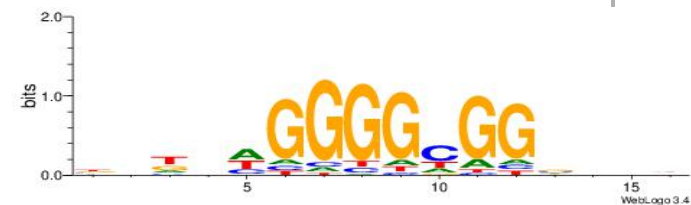
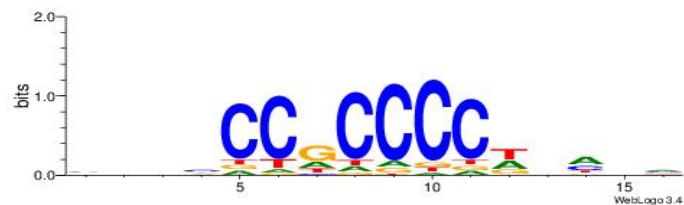
HBBBCCGCCCCWHHHV
--GCCYCMCCCD-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



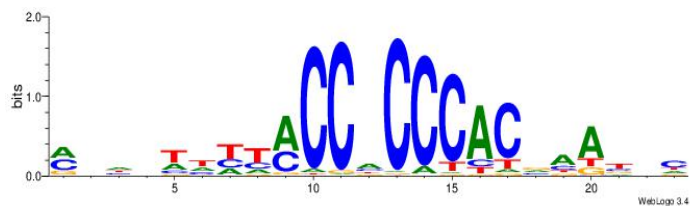
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.0351496

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----GCCYCMCCCD-----

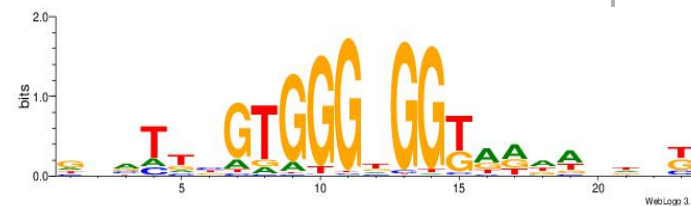
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Dataset #: 2 **Motif ID: 37** **Motif name: MIZF**

Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



Best Matches for Motif ID 37 (Highest to Lowest)

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

Alignment:

DWACTTCCRCTTTB

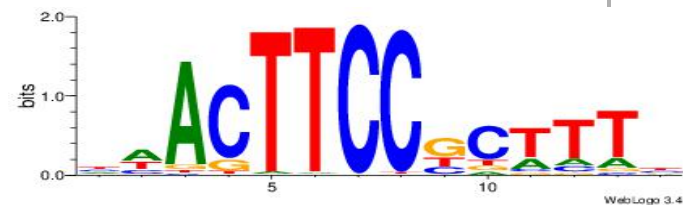
BAACGTCCGC-----

Original motif

Consensus sequence: 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: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00379999

Alignment:
 DWACTTCCRSDTWV
 BAACGTCCGC-----

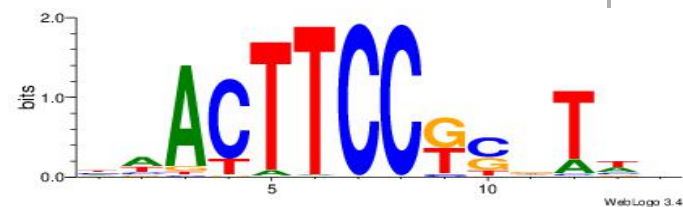
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)

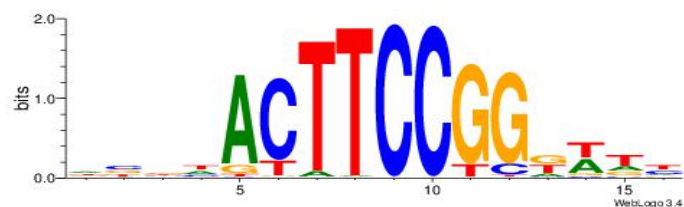
Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWTH
 --BAACGTCCGC----

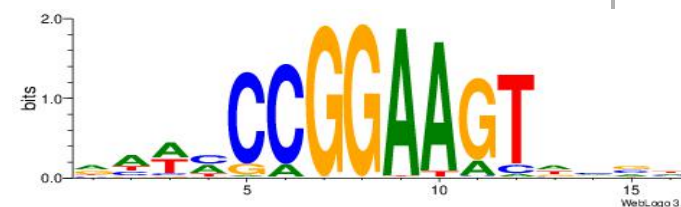
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00404](#)
 Motif name: Elf2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10

Similarity score: 0.0128348

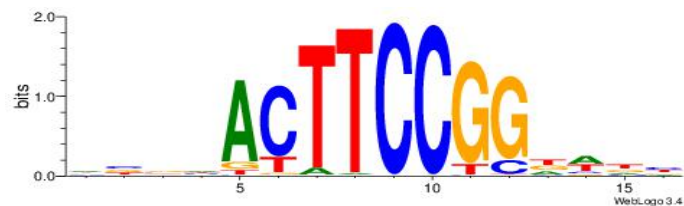
Alignment:

DBBHACTTCCGGDWDB

--BAACGTCCGC----

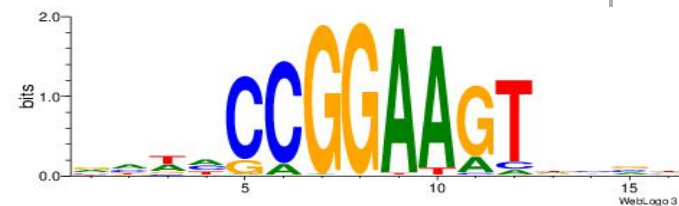
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Motif ID: [UP00085](#)

Motif name: Sfp1_primary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 5

Number of overlap: 10

Similarity score: 0.0141516

Alignment:

HDACTTCCBCWTDV

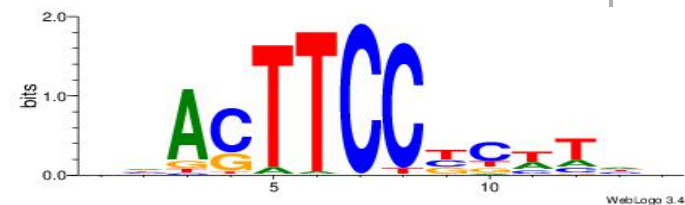
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



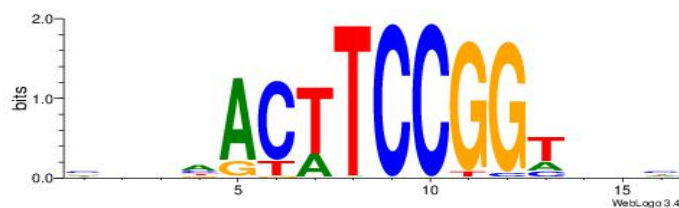
Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0144665

Alignment:

DVHACCGGAAGTHDDV
 ----GCGGACGTTV--

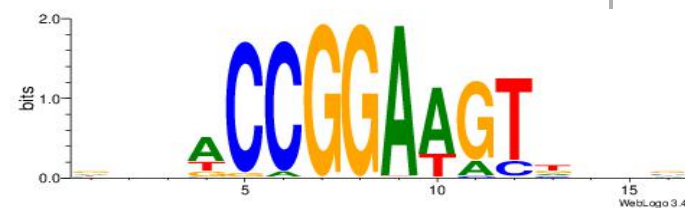
Original motif

Consensus sequence: VDHHA^{CTT}CCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



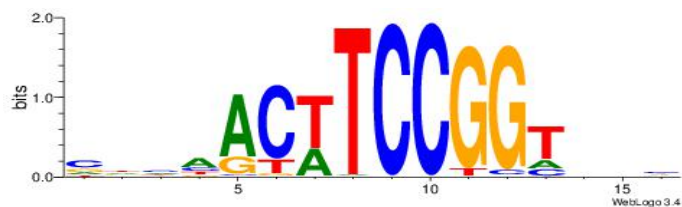
Motif ID: [UP00412](#)
 Motif name: Etv5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0155825

Alignment:

DHHACCGGAWGTTDDV
 ----GCGGACGTTV--

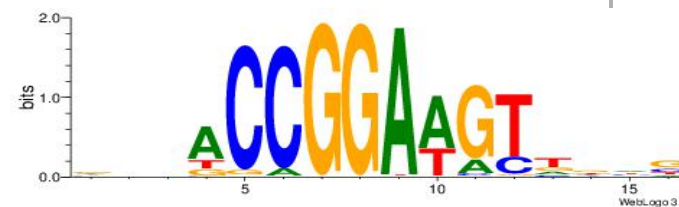
Original motif

Consensus sequence: VDHAACWTCCGGTHHH



Reverse complement motif

Consensus sequence: DHHACCGGAWGTTDDV



Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6

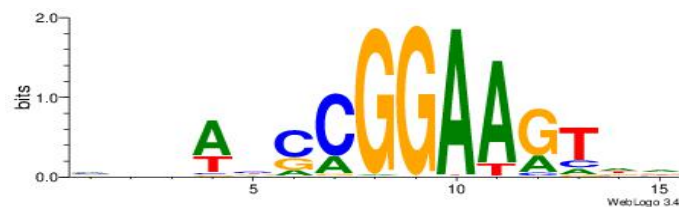
Number of overlap: 10
Similarity score: 0.0162018

Alignment:

VBDABCCGGAAGTDD
-----GCGGACGTTV

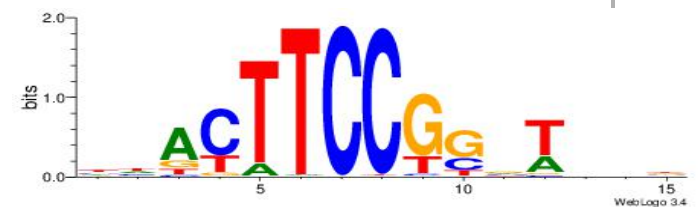
Original motif

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: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0171234

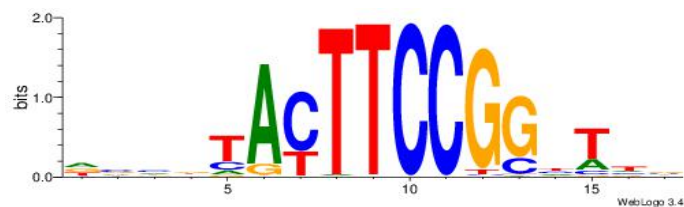
Alignment:

DVHBTACTTCCGGHTHB
---BAACGTCCGC----

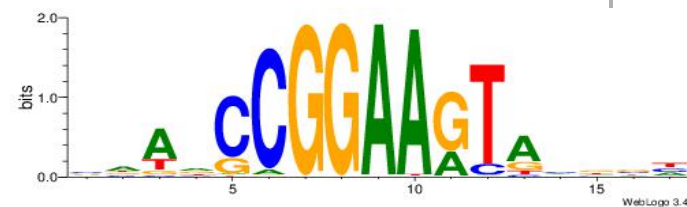
Original motif

Reverse complement motif

Consensus sequence: DVHBTACTTCCGGHTHB



Consensus sequence: BHAHCCGGAAGTABDVD



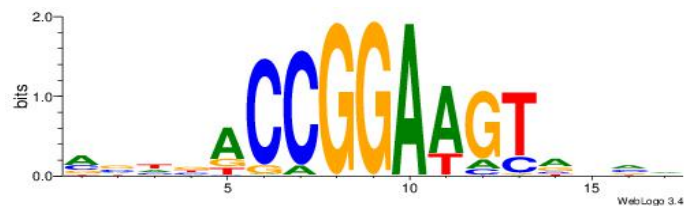
Motif ID: [UP00421](#)
Motif name: Etv1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0184147

Alignment:

MVHBACCGGAAGTVDVH
-----GCGGACGTTV--

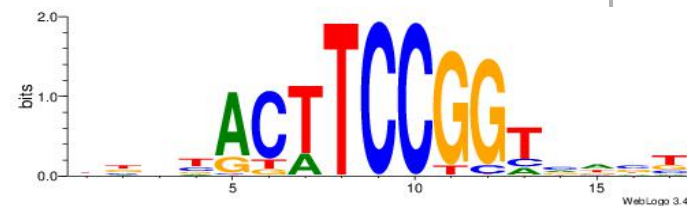
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 2 **Motif ID: 38** **Motif name: Myc**

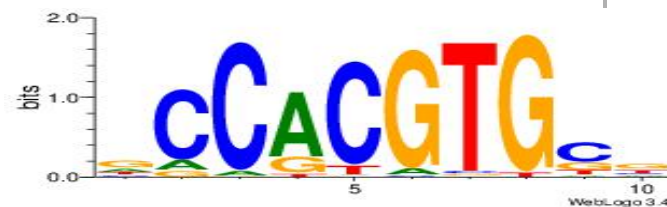
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



Best Matches for Motif ID 38 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

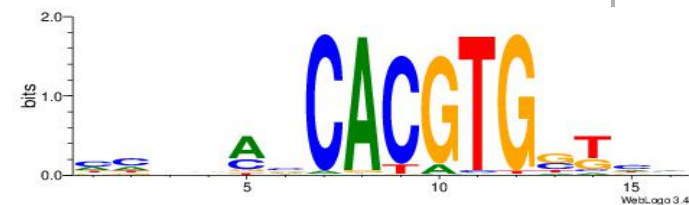
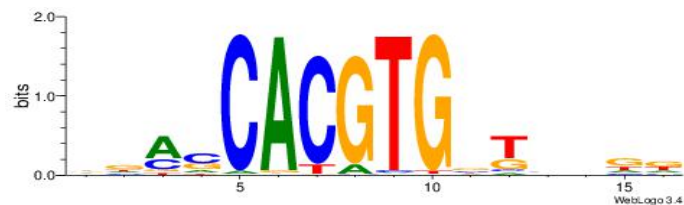
--VGCACGTGGH----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

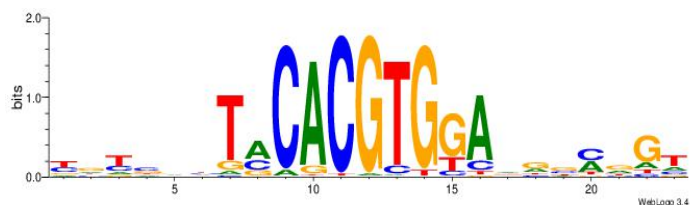


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.00631885

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

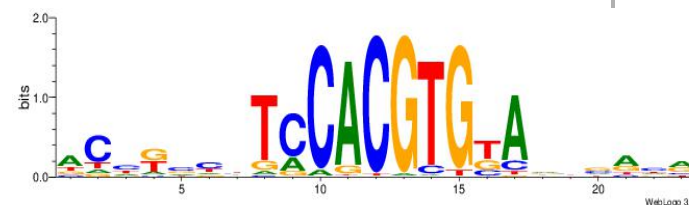
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

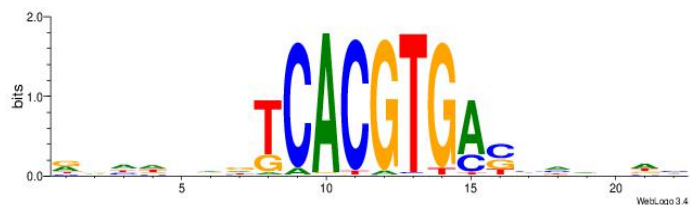
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00821668

Alignment:

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

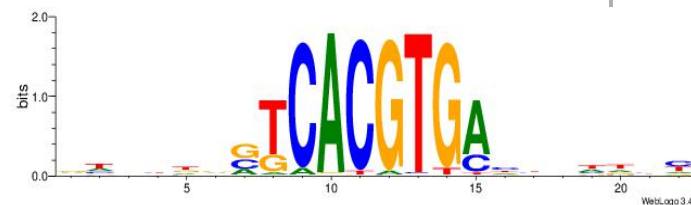
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM

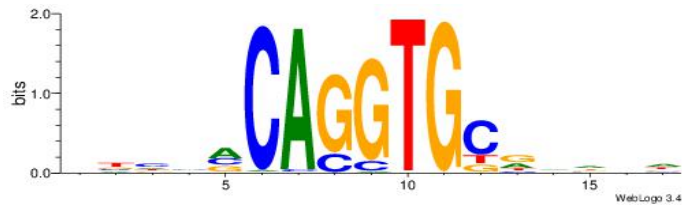


Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10

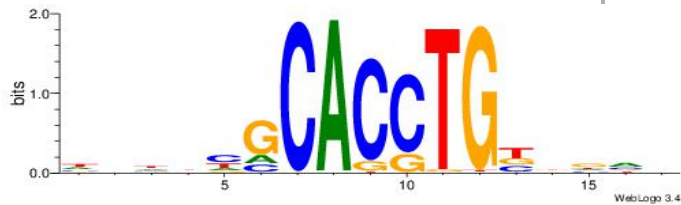
Similarity score: 0.0140005

Alignment:
DHDBHGCACCTGBDDVB
----VGCACGTGGH----

Original motif
Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
Consensus sequence: DHDBHGCACCTGBDDVB

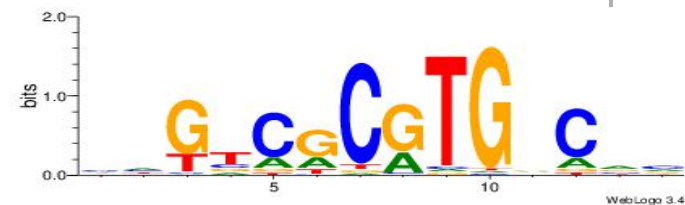
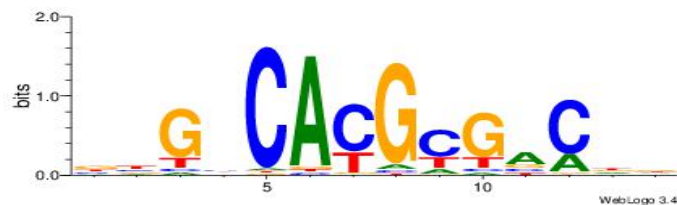


Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0308912

Alignment:
BBGHCACGCGACDD
--VGCACGTGGH--

Original motif
Consensus sequence: BBGHCACGCGACDD

Reverse complement motif
Consensus sequence: HDGTGCGGTGDCVB



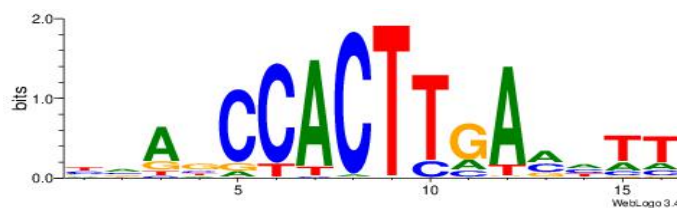
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0311723

Alignment:

BVABCCACTTGAMHTT
 ---DCCACGTGCV---

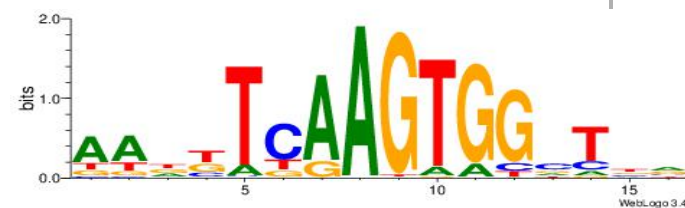
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



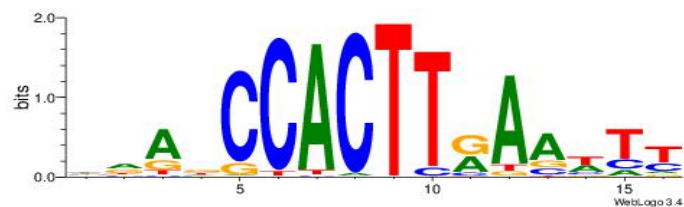
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT
 ---DCCACGTGCV---

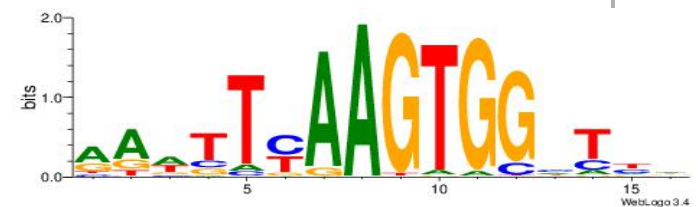
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

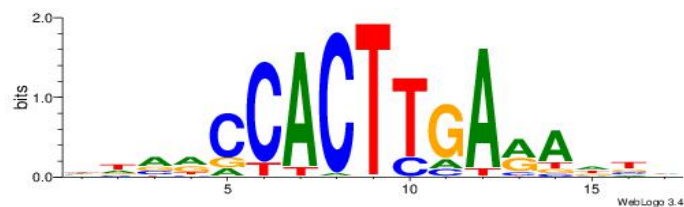
Number of overlap: 10
Similarity score: 0.0334845

Alignment:

HDVRCCACTTGARADBD
---DCCACGTGCV----

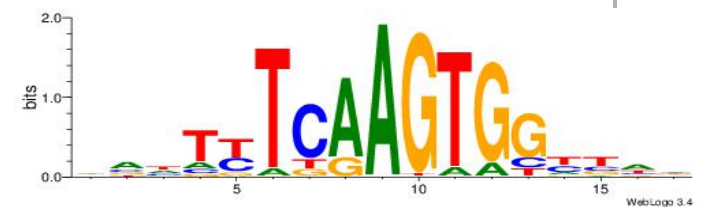
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00147](#)
Motif name: Nkx2-6
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: 0.0345548

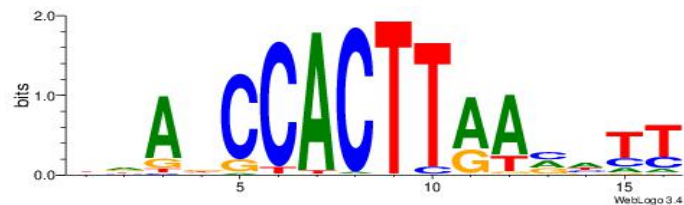
Alignment:

DDADCCACTTAAVHTT
---DCCACGTGCV---

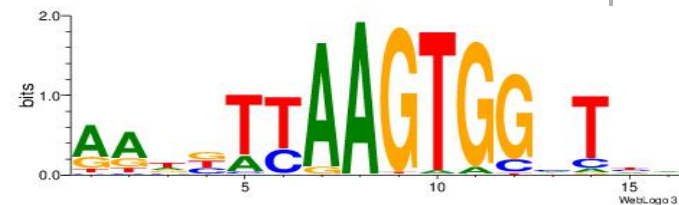
Original motif

Reverse complement motif

Consensus sequence: DDADCCACTTAAVHTT



Consensus sequence: AAHVTTAAGTGGHTDD



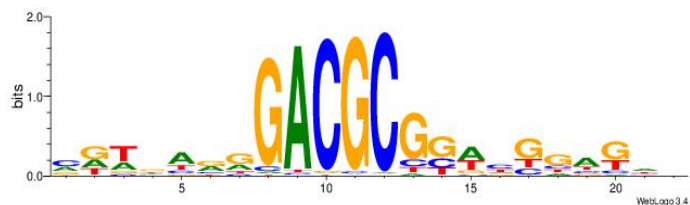
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0363818

Alignment:

```
VDWDARRGACGCGGWHGGAHV  
-----VGCACGTGGH-----
```

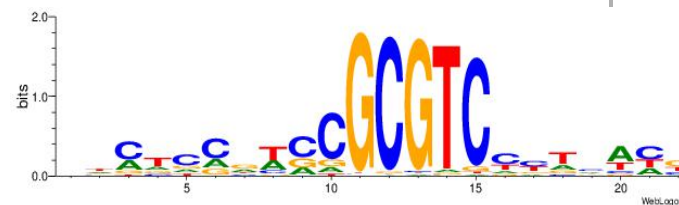
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 2 **Motif ID: 39** **Motif name: MYCMAX**

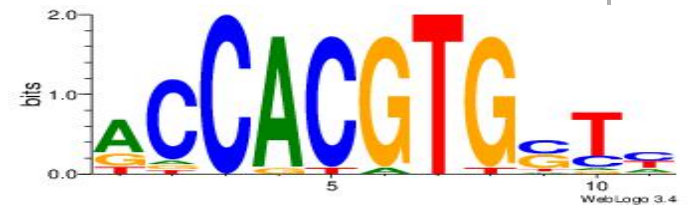
Original motif

Consensus sequence: RASCACGTGGT



Reverse complement motif

Consensus sequence: ACCACGTGSTM



Best Matches for Motif ID 39 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0

Alignment:

HHVBABCACGTGSTHD

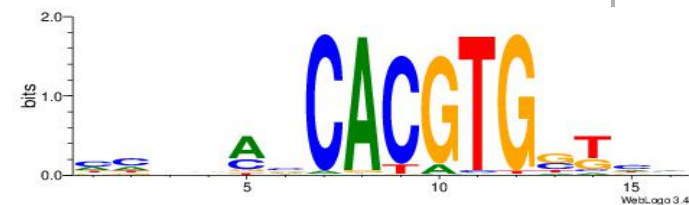
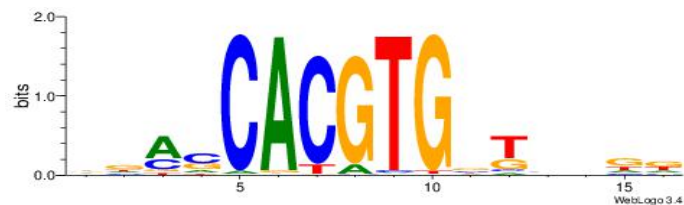
---RASCACGTGGT---

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



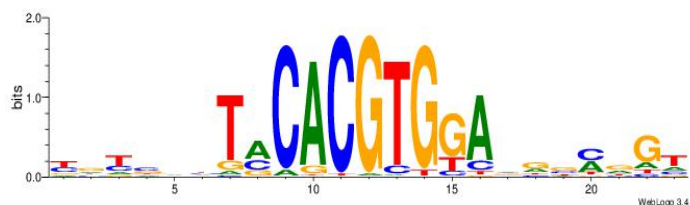
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.025477

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----ACCACGTGSTM-----

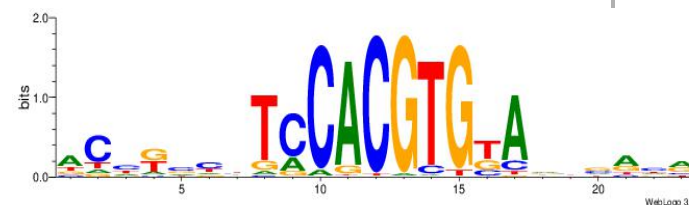
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

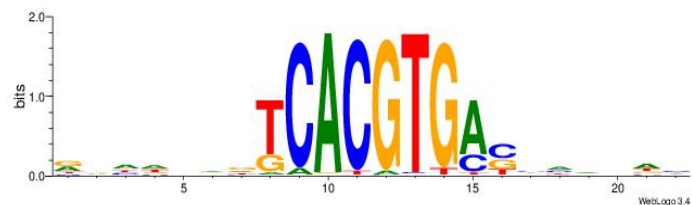
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.033078

Alignment:

RDHDBVDTACGTGASBHVHDH
 -----RASCACGTGGT-----

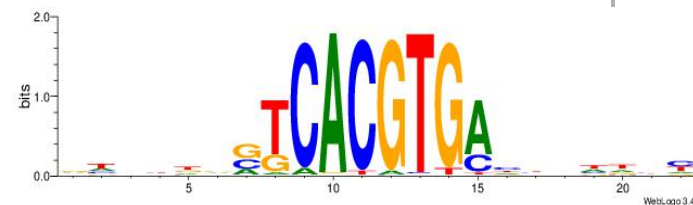
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11

Similarity score: 0.0375583

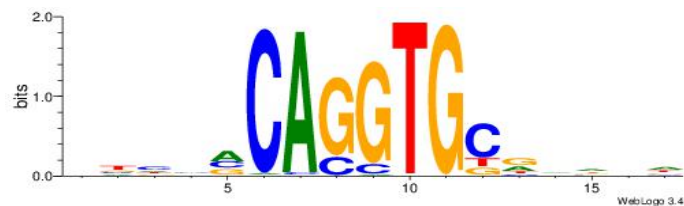
Alignment:

VBHHVCAGGTGCDVDHD

---ACCACGTGSTM---

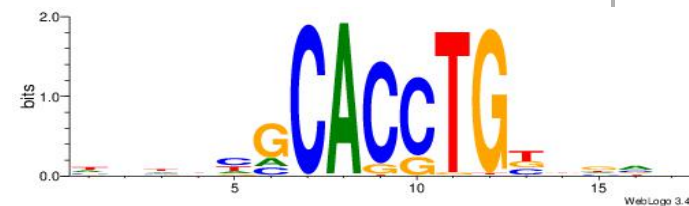
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0452419

Alignment:

HVDDVCAGATGKYHBBV

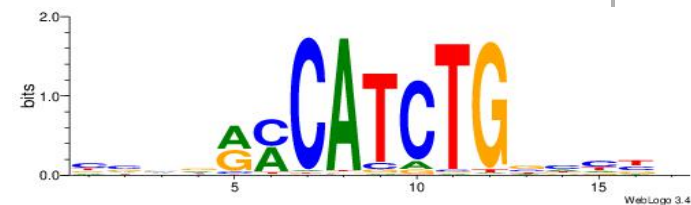
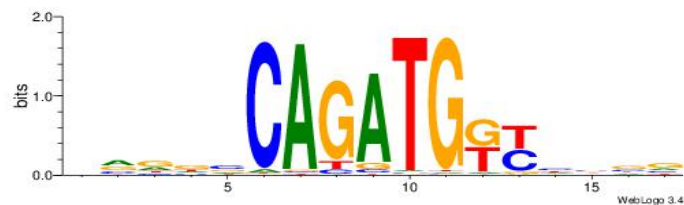
--RASCACGTGGT----

Original motif

Consensus sequence: HVDDVCAGATGKYHBBV

Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



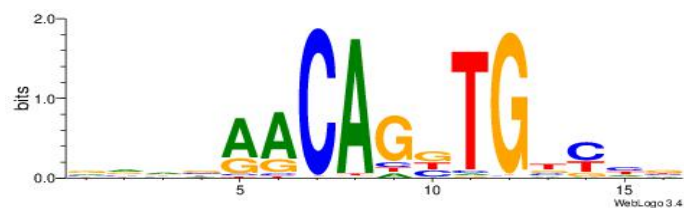
Motif ID: [UP00036](#)
 Motif name: Myf6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0471968

Alignment:

VVDBAACAGBTGBYHB
 ---RASCACGTGGT--

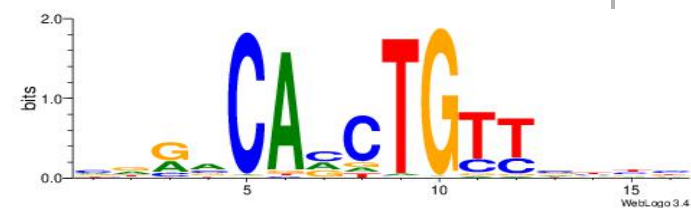
Original motif

Consensus sequence: VVDBAACAGBTGBYHB



Reverse complement motif

Consensus sequence: BDKVCABCTGTTBDBV



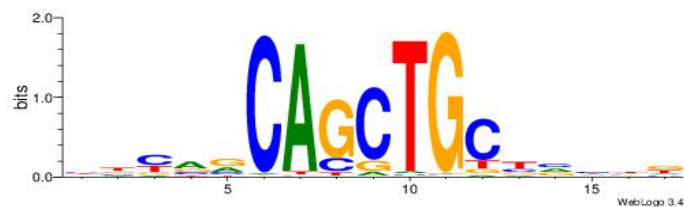
Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0504418

Alignment:

HHDVVGCAGCTGVBKVB
 ---RASCACGTGGT---

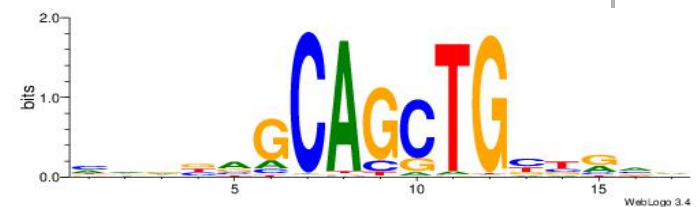
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



Motif ID: [UP00084](#)
 Motif name: Gmeb1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

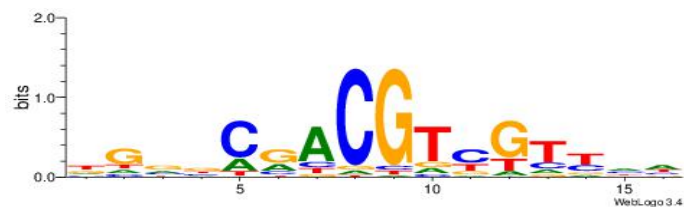
Number of overlap: 11
Similarity score: 0.0522039

Alignment:

HHMACKACGTMGBVCD
---ACCACGTGSTM--

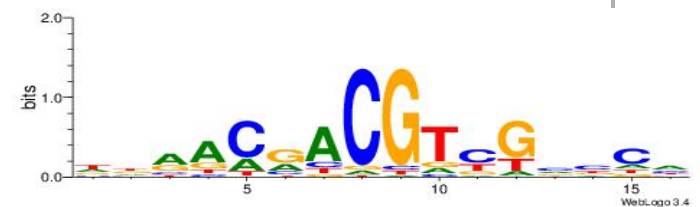
Original motif

Consensus sequence: DGVBCRACGTYGTYHH



Reverse complement motif

Consensus sequence: HHMACKACGTMGBVCD



Motif ID: [UP00165](#)
Motif name: Titf1
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: 0.0554094

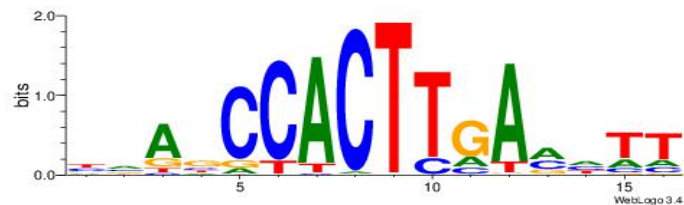
Alignment:

BVABCCACTTGAMHTT
---ACCACGTGSTM--

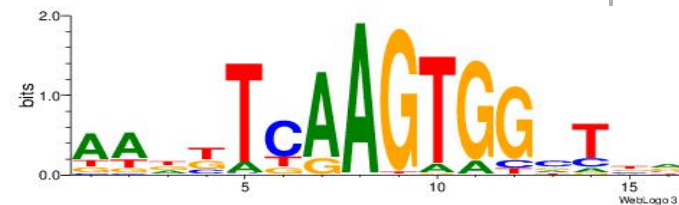
Original motif

Reverse complement motif

Consensus sequence: BVABCCACTTGAMHTT



Consensus sequence: AAHYTCAAGTGGBTBV



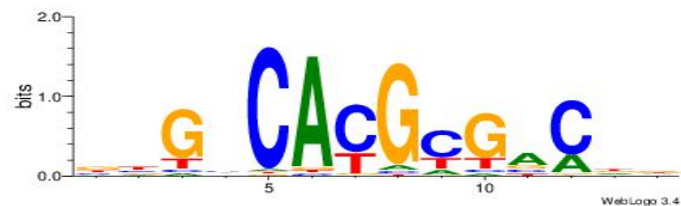
Motif ID: [UP00060](#)
Motif name: Max_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0557594

Alignment:

HDGTCGCGTGDCVB
-RASCACGTGGT--

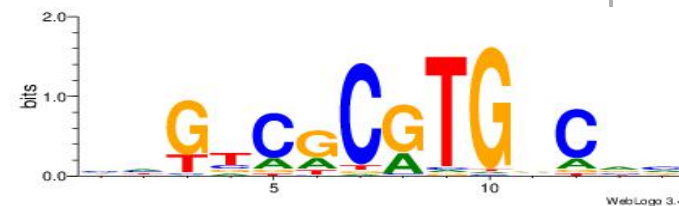
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 2 **Motif ID: 40** **Motif name: Mycn**

Original motif

Consensus sequence: HSCACGTGGC



Reverse complement motif

Consensus sequence: GCCACGTGSD



Best Matches for Motif ID 40 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

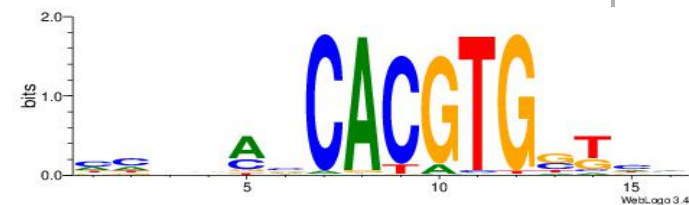
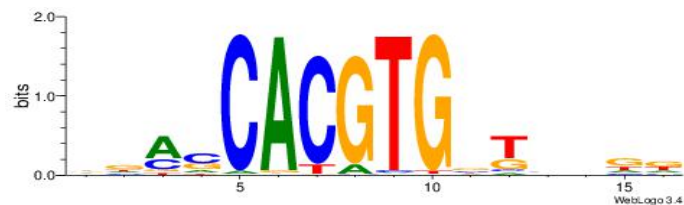
--HSCACGTGGC----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



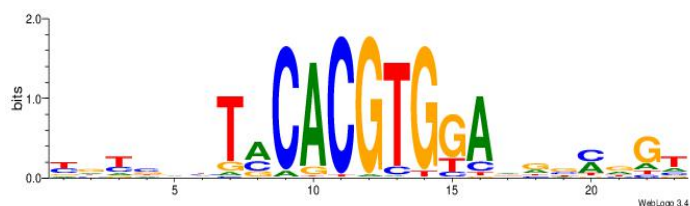
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:

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

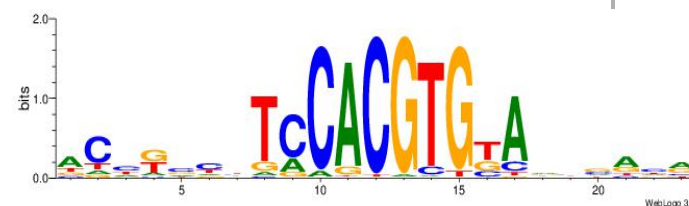
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

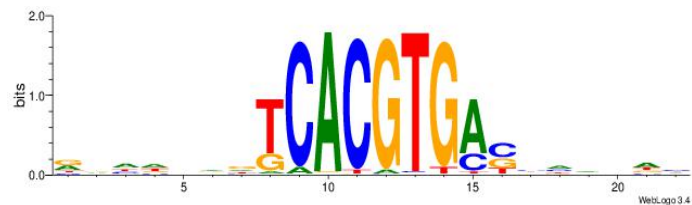
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0132858

Alignment:

DDHBHBSTCACGTGAHBBDHHM
 -----GCCACGTGSD-----

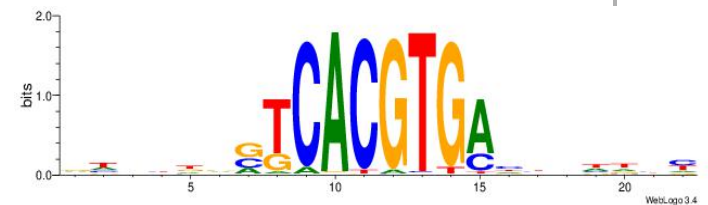
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



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: Backward
 Position number: 5
 Number of overlap: 10

Similarity score: 0.0227933

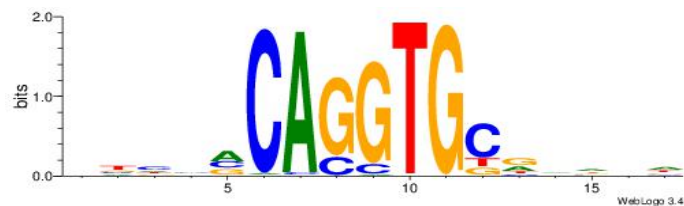
Alignment:

VBHHVCAGGTGCDVDHD

---GCCACGTGSD----

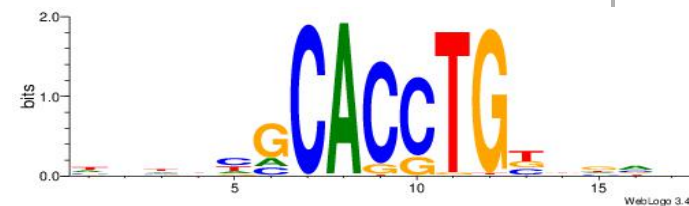
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

BBGHCACGCGACDD

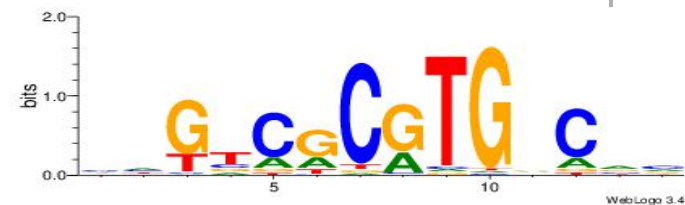
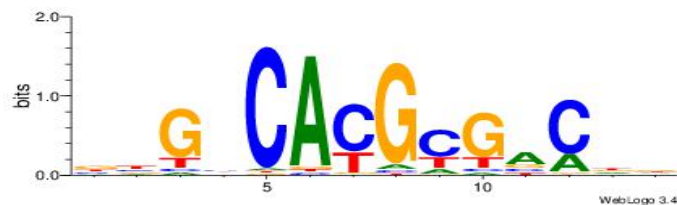
--HSCACGTGGC--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



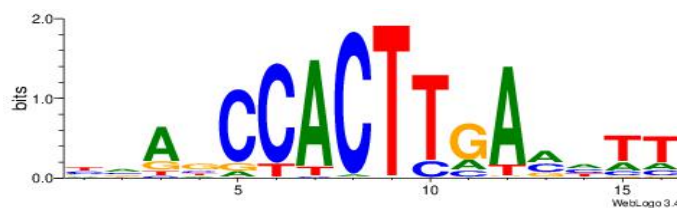
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0344833

Alignment:

BVABCCACTTGAMHTT
 ---GCCACGTGSD---

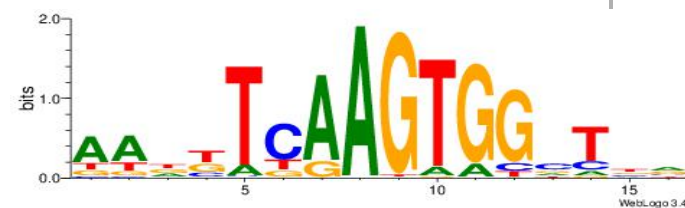
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGTBTV



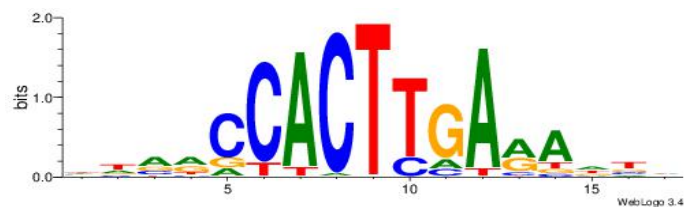
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.035228

Alignment:

HDVRCCACTTGARADBD
 ---GCCACGTGSD----

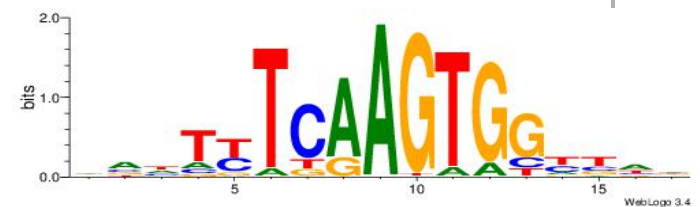
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00084](#)
 Motif name: Gmeb1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

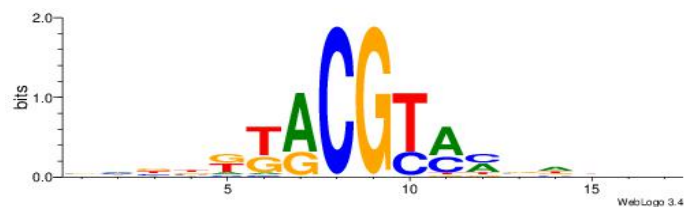
Number of overlap: 10
Similarity score: 0.0358581

Alignment:

BVVDVRYACGTRYVBHB
----GCCACGTGSD---

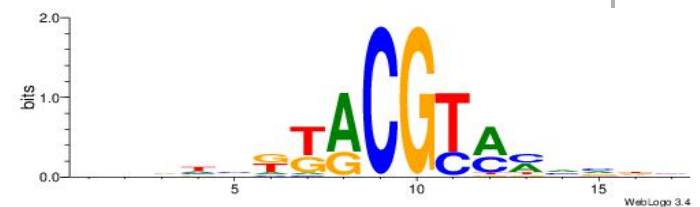
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



Motif ID: [UP00084](#)
Motif name: Gmeb1_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: 0.03725

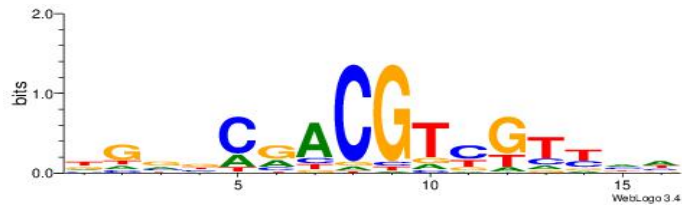
Alignment:

HHMACKACGTMGBVCD
---HSCACGTGGC---

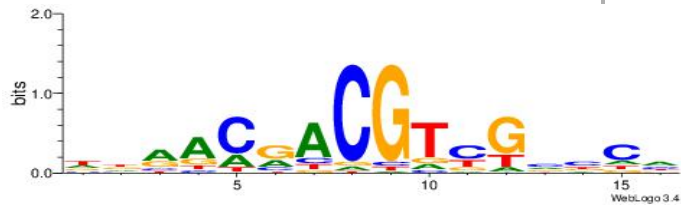
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYHH



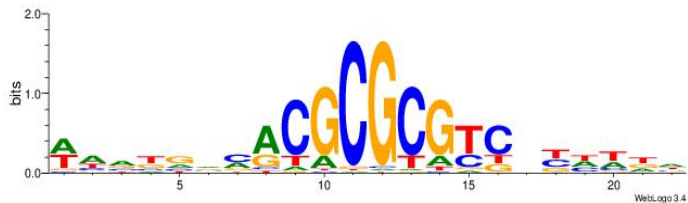
Consensus sequence: HHMACKACGTMGBVCD



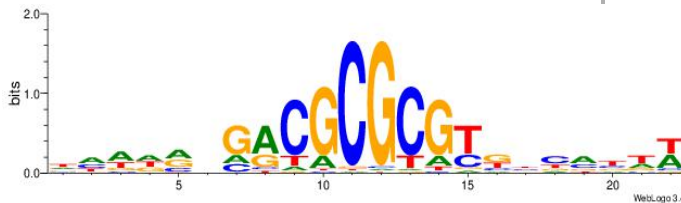
Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0383187

Alignment:
WHVBVVMACGCGCGTCDYHWDH
-----HSCACGTGGC-----

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 2 **Motif ID: 41** **Motif name: MZF1_5-13**

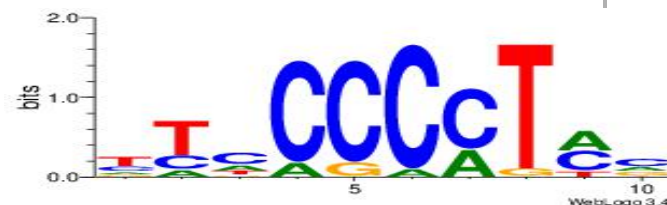
Original motif

Consensus sequence: BKAGGGGDAD



Reverse complement motif

Consensus sequence: BTHCCCCTYB



Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID:	UP00022
Motif name:	Zfp740_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:	10
Similarity score:	0.0090535

Alignment:

DDDTWCCCCCGGDRVH

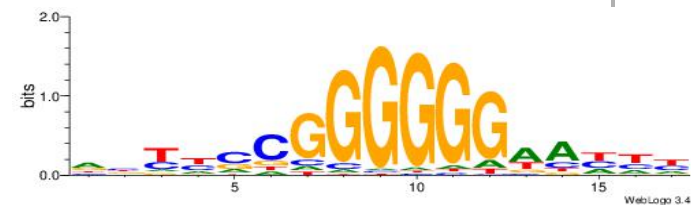
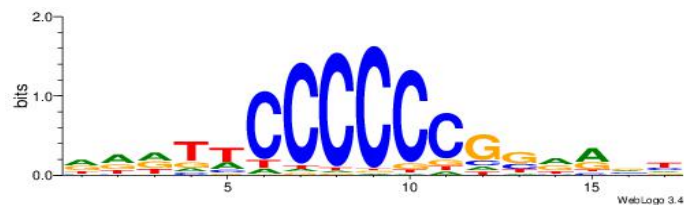
---BTHCCCCTYB----

Original motif

Consensus sequence: DDDTWCCCCCGGDRVH

Reverse complement motif

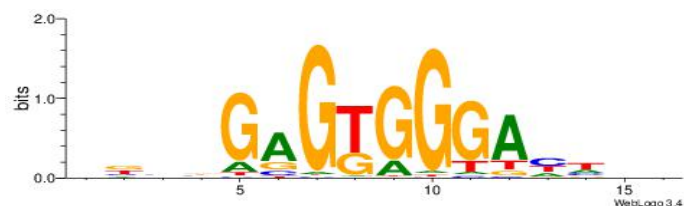
Consensus sequence: HVKDCCGGGGGGWADDD



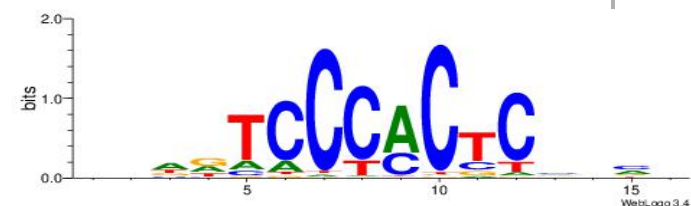
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.00910178

Alignment:
 BBHBGAGTGGGAHHDB
 ---BKAGGGGDAD---

Original motif
 Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif
 Consensus sequence: BHHDTCCCACTCBDBV



Motif ID: [UP00070](#)

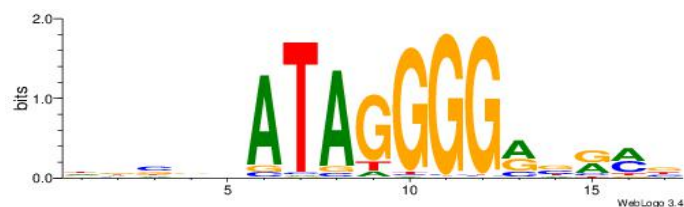
Motif name: Gcm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0101177

Alignment:

DDBVHATAGGGGRBRMB
 -----BKAGGGGDAD--

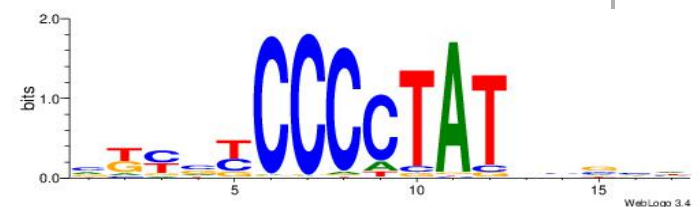
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD

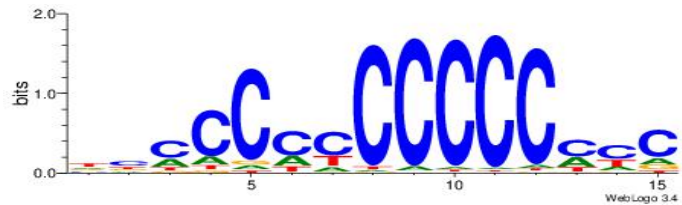


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 10

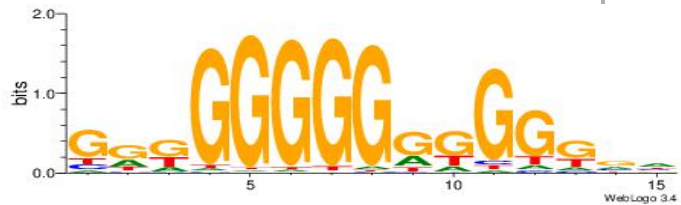
Similarity score: 0.0103225

Alignment:
GKRGGGGGGGGGGBD
BKAGGGGDAD-----

Original motif
Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif
Consensus sequence: GKRGGGGGGGGGGBD

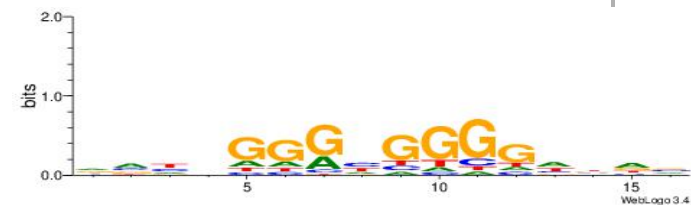
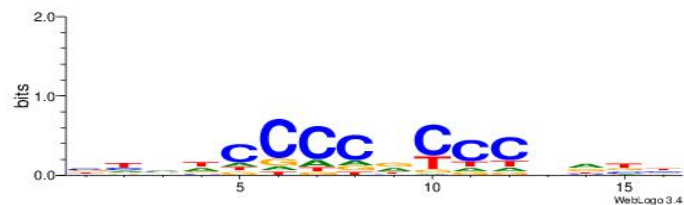


Motif ID: [UP00099](#)
Motif name: Ascl2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0126235

Alignment:
HVDVGGGHGGGGDBHB
-----BKAGGGGDAD-

Original motif
Consensus sequence: BHVDCCCCDCCCBDBH

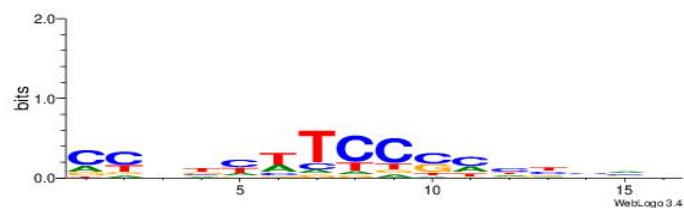
Reverse complement motif
Consensus sequence: HVDVGGGHGGGGDBHB



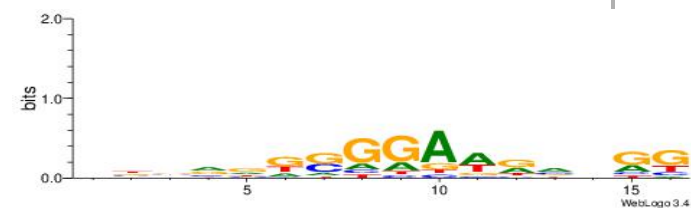
Motif ID: [UP00013](#)
 Motif name: Gabpa_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.013531

Alignment:
 DBVVDRSGGAWKVHKG
 -BKAGGGGDAD-----

Original motif
 Consensus sequence: CYDBYWTCCTSMHBVVH



Reverse complement motif
 Consensus sequence: DBVVDRSGGAWKVHKG



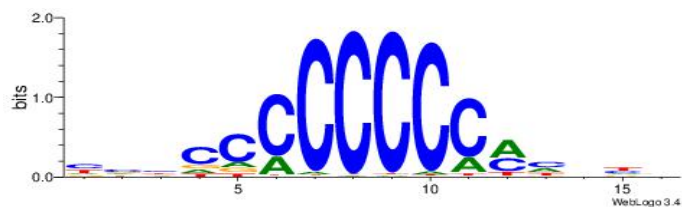
Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0152996

Alignment:

BHHDYGGGGGGGGBVD
 ---BKAGGGGDAD---

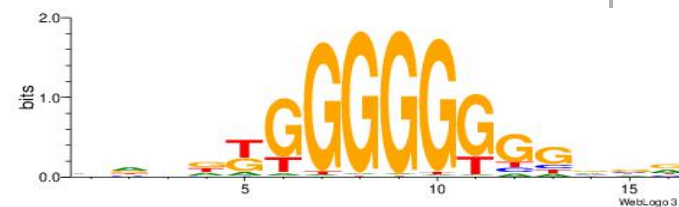
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD

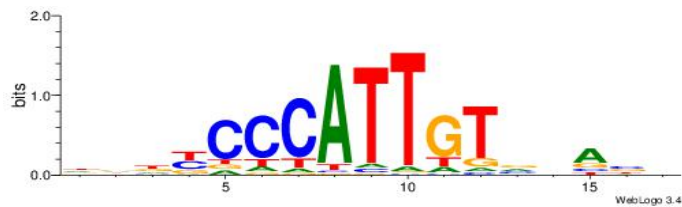


Motif ID: [UP00055](#)
 Motif name: Hbp1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2

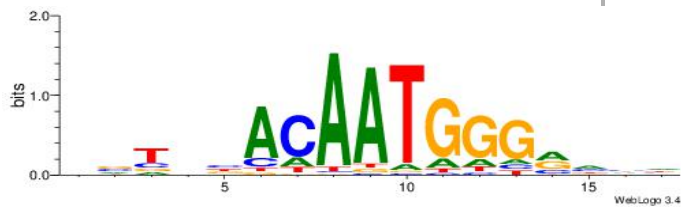
Number of overlap: 10
Similarity score: 0.0176527

Alignment:
DDDYCCCATTGTVHABH
-BTHCCCCTYB-----

Original motif
Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif
Consensus sequence: HBTHVACAATGGGMDHD



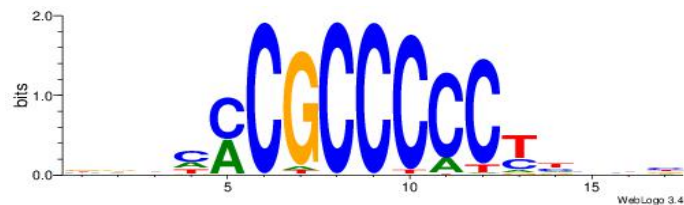
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0183345

Alignment:
BDHHMCGCCCCCTHVBB
-----BTHCCCCTYB--

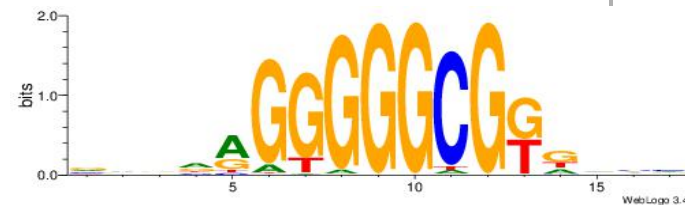
Original motif

Reverse complement motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Consensus sequence: BVVHAGGGGGCGRDHHB



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: 1
Number of overlap: 10
Similarity score: 0.019782

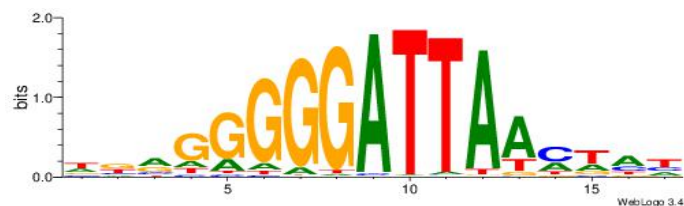
Alignment:

DBRGGGGGATTAAMTAH

BKAGGGGDAD-----

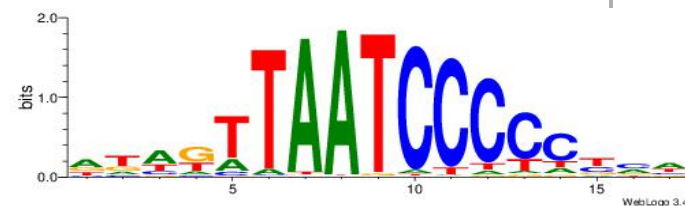
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



Dataset #: 2 Motif ID: 42 Motif name: NFKB1

Original motif

Consensus sequence: GGGGRTTCCCC



Reverse complement motif

Consensus sequence: GGGGAATCCCC



Best Matches for Motif ID 42 (Highest to Lowest)

Motif ID:	UP00021
Motif name:	Zfp281_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:	11
Similarity score:	0.0371794

Alignment:

VDDAHTGGGGGTHWYYD

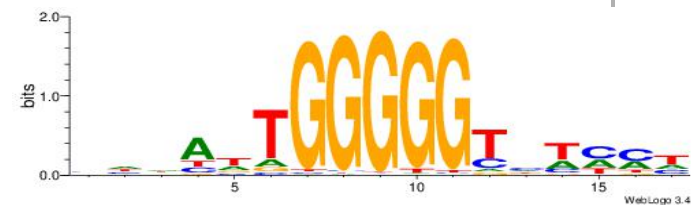
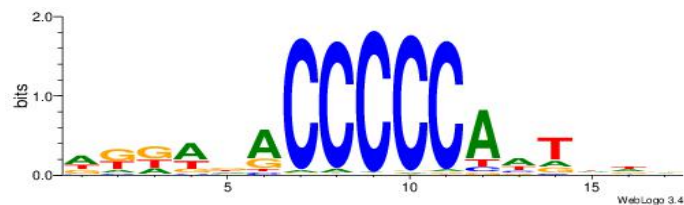
-----GGGGRITCCCC

Original motif

Consensus sequence: DKKWDACCCCAHTDDV

Reverse complement motif

Consensus sequence: VDDAHTGGGGGTHWYYD

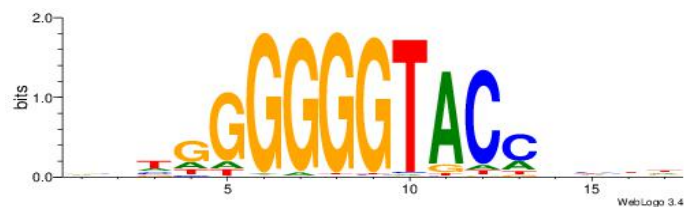


Motif ID: [UP00088](#)
 Motif name: Plagl1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0407901

Alignment:
 DBHGGGGGGTACCHHHD
 ----GGGGRITCCCC--

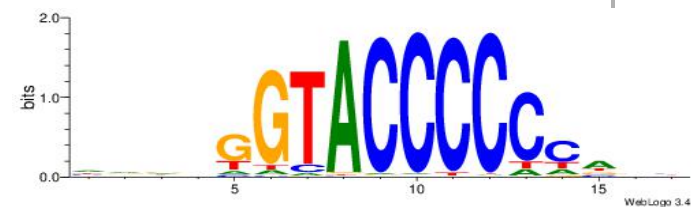
Original motif

Consensus sequence: DBHGGGGGGTACCHHHD



Reverse complement motif

Consensus sequence: DHDDGGTACCCCCCHBH



Motif ID: [UP00088](#)

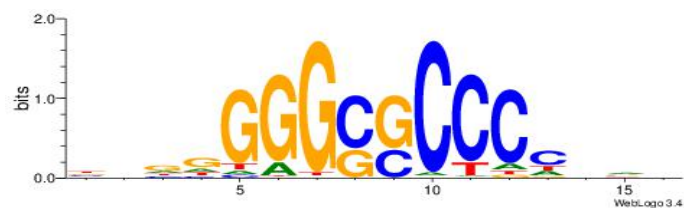
Motif name: Plagl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0459696

Alignment:

BHDGGGGSSCCCCBVV
 --GGGRTTCCCC--

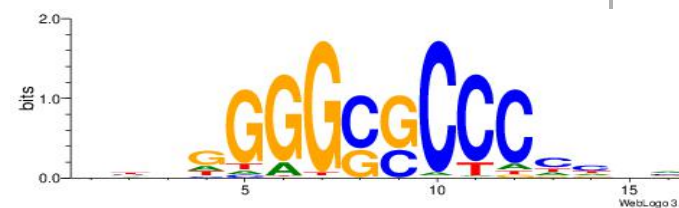
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHHV



Motif ID: [UP00176](#)
 Motif name: Crx
 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: 11

Similarity score: 0.0464973

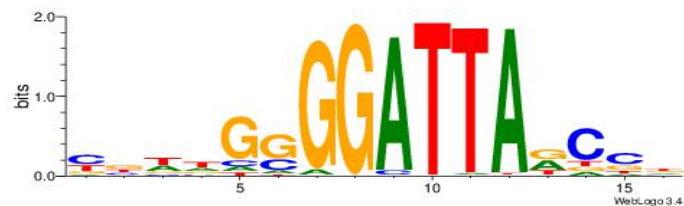
Alignment:

DGGMTAATCCCCDWBK

-GGGGAAKCCCC----

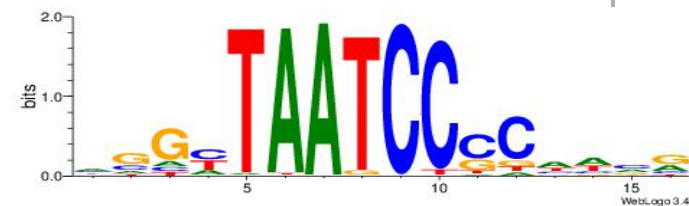
Original motif

Consensus sequence: YBWDGGGGATTARCCD



Reverse complement motif

Consensus sequence: DGGMTAATCCCCDWBK



Motif ID: [UP00265](#)

Motif name: Pitx3

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: 0.048533

Alignment:

GBHDGCTAATCCCCCB

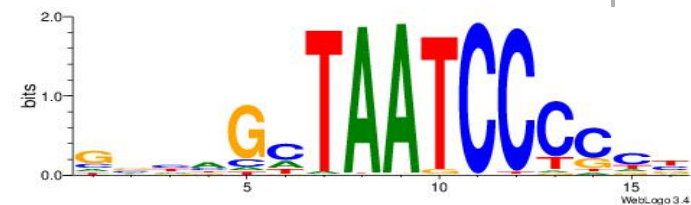
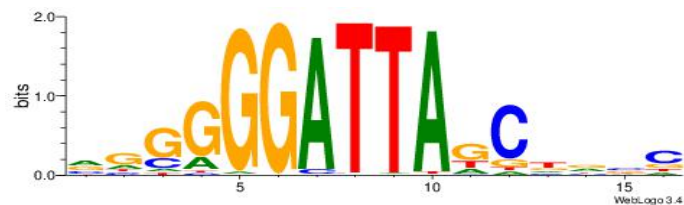
---GGGGAAKCCCC--

Original motif

Consensus sequence: VGGGGGATTAGCDDBC

Reverse complement motif

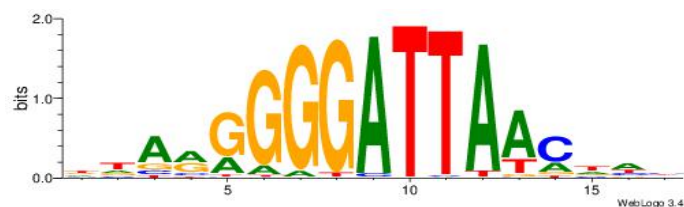
Consensus sequence: GBHDGCTAATCCCCCB



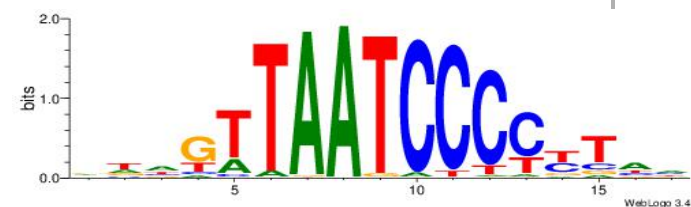
Motif ID: [UP00216](#)
 Motif name: Obox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0502644

Alignment:
 DHDGTTAATCCCCKTDD
 --GGGGAACCCC----

Original motif
 Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif
 Consensus sequence: DHDGTTAATCCCCKTDD



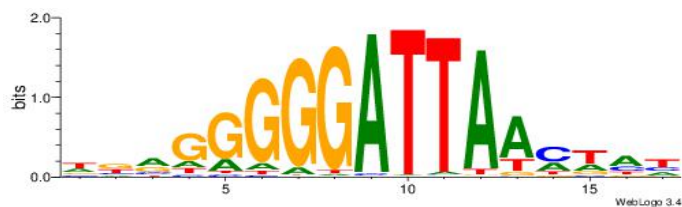
Motif ID: [UP00239](#)
 Motif name: Obox2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0515498

Alignment:

HTARTTAATCCCCCKBD
 --GGGGAACKCCC-----

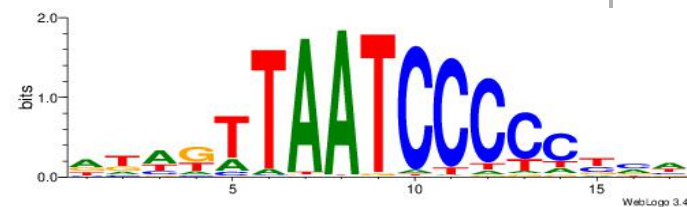
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD

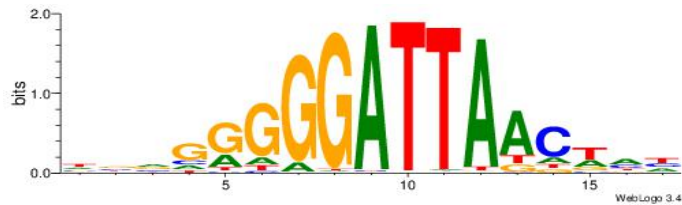


Motif ID: [UP00160](#)
 Motif name: Obox3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

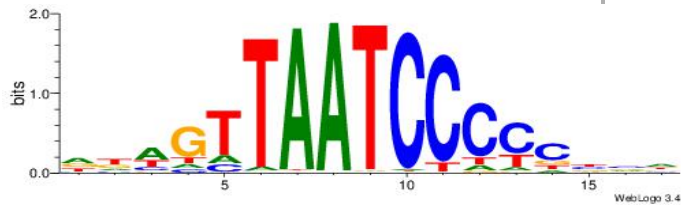
Number of overlap: 11
Similarity score: 0.0520605

Alignment:
HHWGTTAATCCCCBBH
--GGGGAACCCC----

Original motif
Consensus sequence: HBVGGGGGATTAACWHH



Reverse complement motif
Consensus sequence: HHWGTTAATCCCCBBH

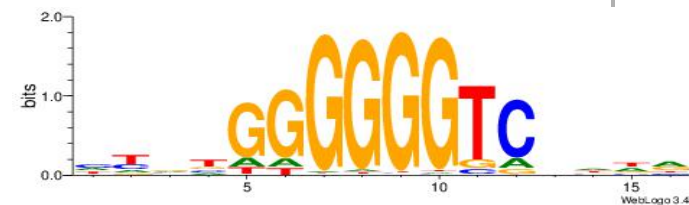
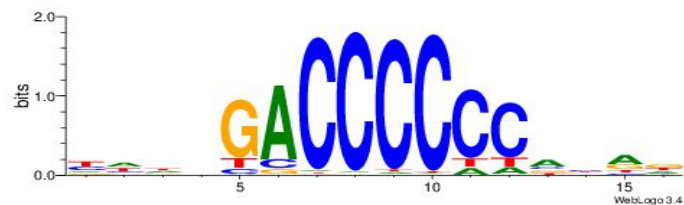


Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.052761

Alignment:
HHHVGACCCCCVBRD
-----GGGGRTTCCCC

Original motif
Consensus sequence: HHHVGACCCCCVBRD

Reverse complement motif
Consensus sequence: HKBBGGGGGGTCVHHH

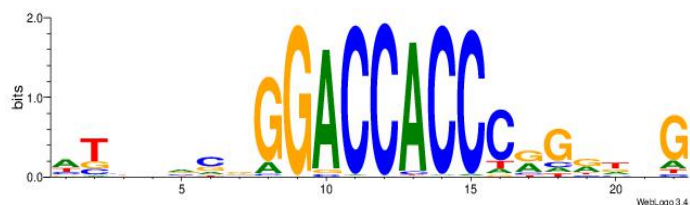


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0555704

Alignment:
 CBDMCMGGGTGGTCCHVBVBAH
 -----GGGGAACCCCC-----

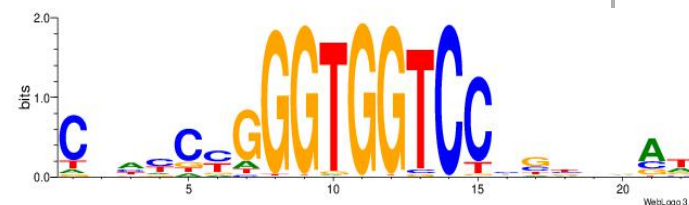
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

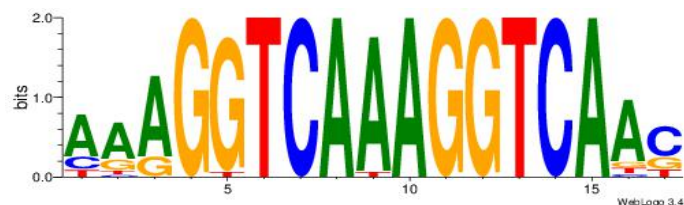
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Dataset #: 2 **Motif ID: 43** **Motif name: NR1H2RXRA**

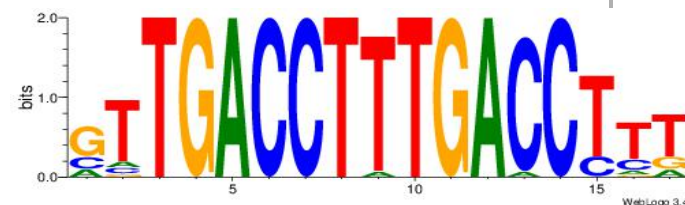
Original motif

Consensus sequence: AAAGGTCAAAGGTCAAC



Reverse complement motif

Consensus sequence: GTTGACCTTTGACCTTT



Best Matches for Motif ID 43 (Highest to Lowest)

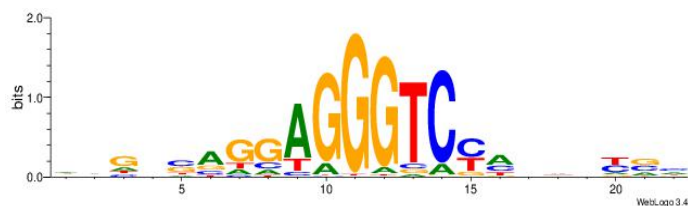
Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0538452

Alignment:

```
DVMHHDHKGACCCTCCTSVCBH  
-----GTTGACCTTTGACCTTT
```

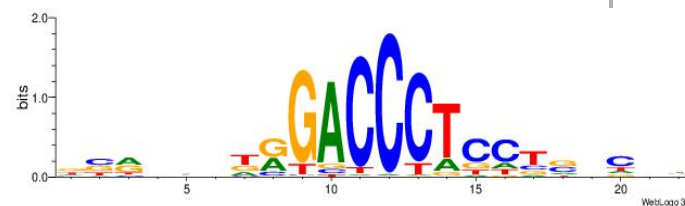
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



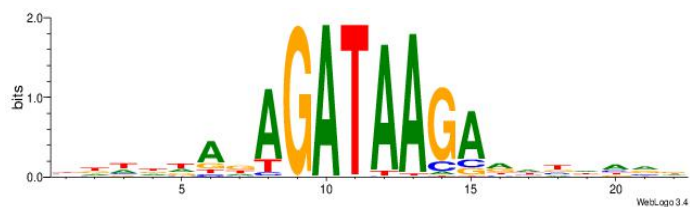
Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0545098

Alignment:

BDHDDADAGATAAGADHBDHVD
 -----AAAGGTCAAAGGTCAAC

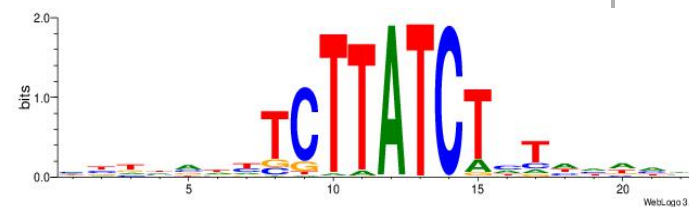
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



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

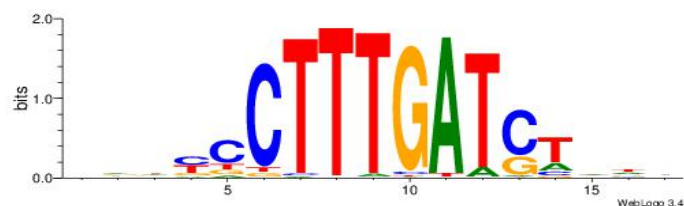
Number of overlap: 16
Similarity score: 0.521114

Alignment:

VDDAGATCAAAGGKDDD-
-AAAGGTCAAAGGTCAAC

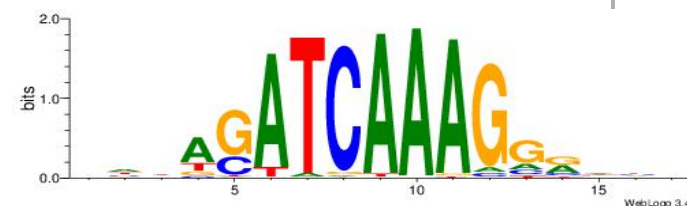
Original motif

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:

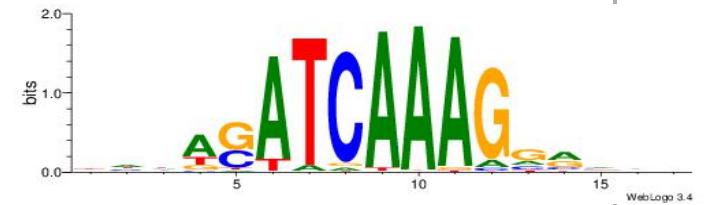
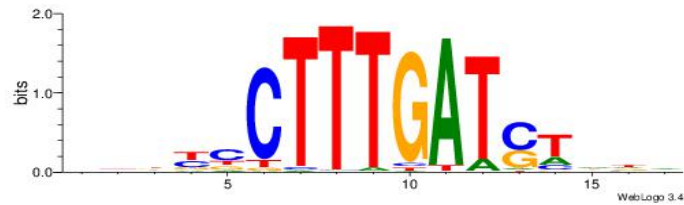
BDDASATCAAAGGMDDD-
-GTTGACCTTTGACCTTT

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

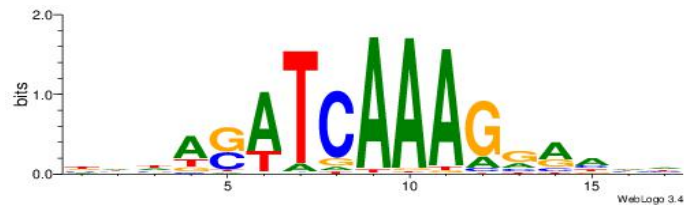
Consensus sequence: BDDASATCAAAGGMDDD



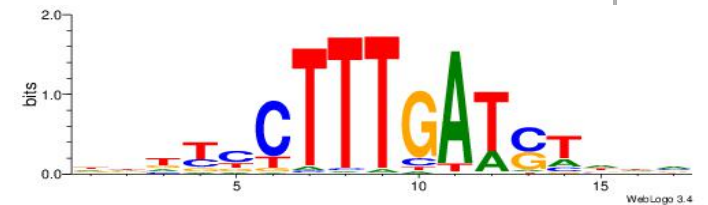
Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.531154

Alignment:
 -BHHSATCAAAGGAHHH
 AAAGGTCAAAGGTCAAC-

Original motif
 Consensus sequence: BHHSATCAAAGGAHHH



Reverse complement motif
 Consensus sequence: HHHTCCTTTGATSTHHV



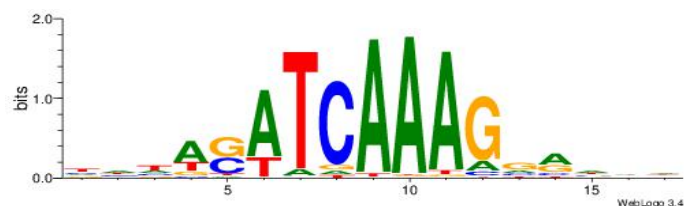
Motif ID: [UP00058](#)
 Motif name: Tcf3_primary

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: 0.531876

Alignment:
 -HHHASATCAAAGVRHHH
 AAAGGTCAAAGGTCAAC-

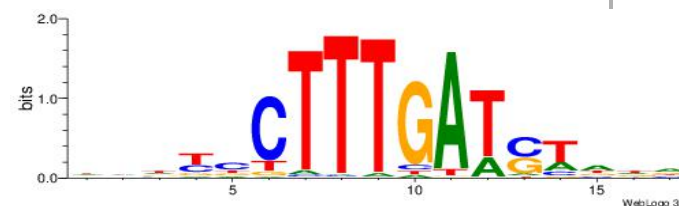
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



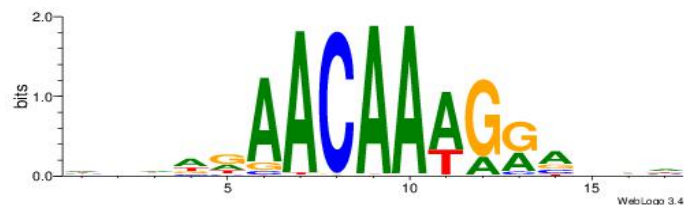
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.544403

Alignment:

-HBDDRAACAAAGRABHH
AAAGGTCAAAGGTCAAC-

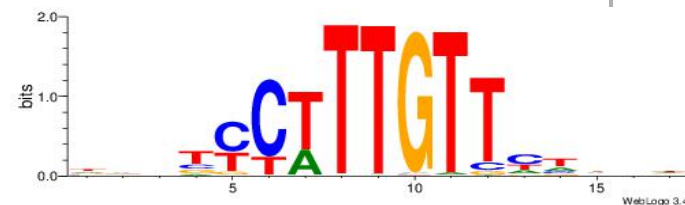
Original motif

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:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.544565

Alignment:

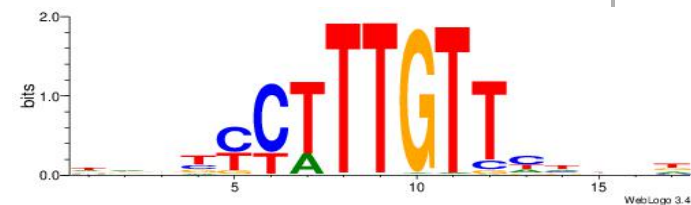
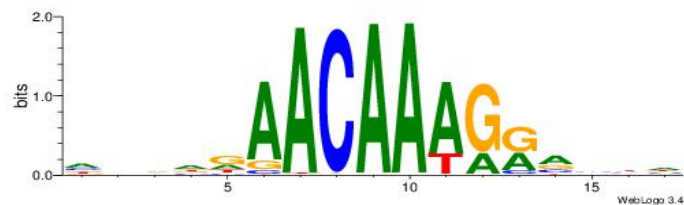
-HHBBMCTTTGTTTHDDBH
GTTGACCTTTGACCTTT-

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH

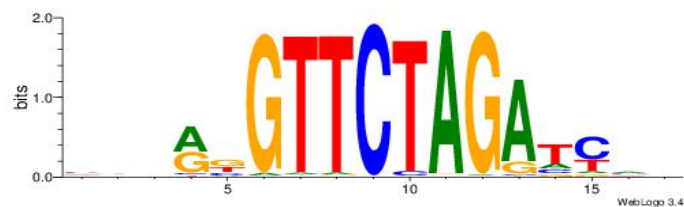


Motif ID: [UP00019](#)
 Motif name: Zbtb12_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.550511

Alignment:
 -BBGATCTAGAACBKHDB
 GTTGACCTTTGACCTTT-

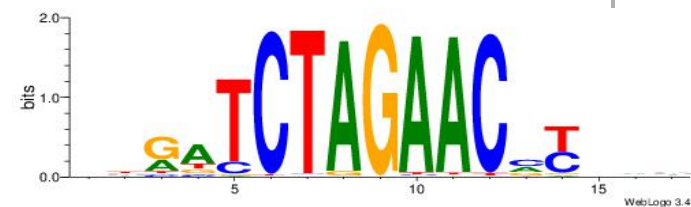
Original motif

Consensus sequence: BDHRBGTTCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



Motif ID: [UP00046](#)

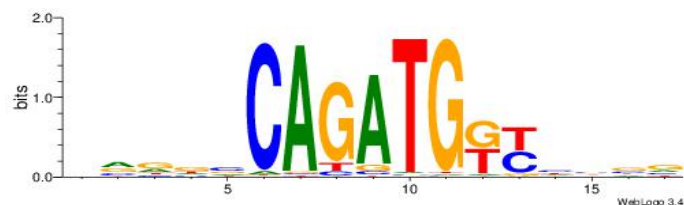
Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.552064

Alignment:

HVDDVCAGATGKYHBBV-
 -AAAGGTCAAAGGTCAAC

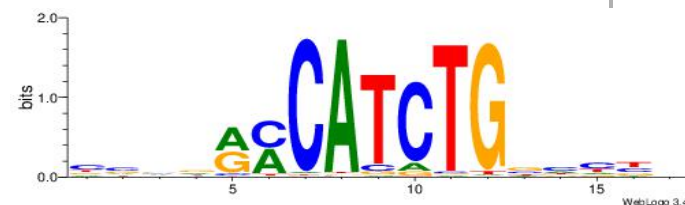
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHBBH



Dataset #: 2 Motif ID: 44 Motif name: NR4A2

Original motif

Consensus sequence: AAGGTCAC



Reverse complement motif

Consensus sequence: GTGACCTT



Best Matches for Motif ID 44 (Highest to Lowest)

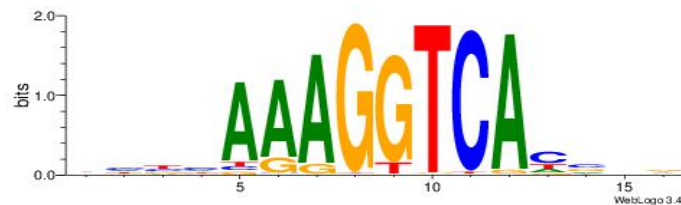
Motif ID: [UP00048](#)
Motif name: Rara
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0

Alignment:

DHBHAAAGGTCACVHD
-----AAGGTCAC---

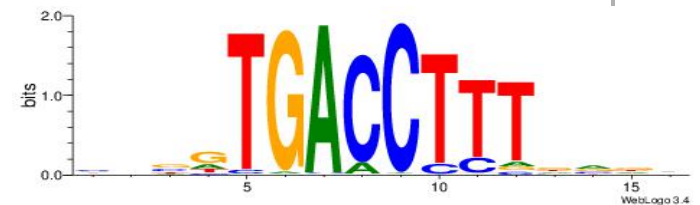
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



Motif ID: [UP00009](#)
Motif name: Nr2f2_primary
Species: Mus musculus
Matching format of first motif: Original Motif

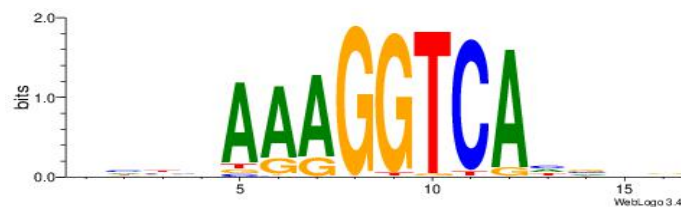
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0074527

Alignment:

```
DHBHAAAGGTCAHVHB
-----AAGGTCAC---
```

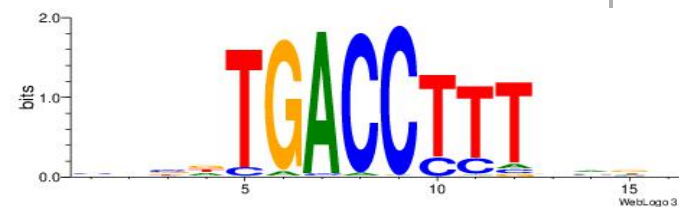
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



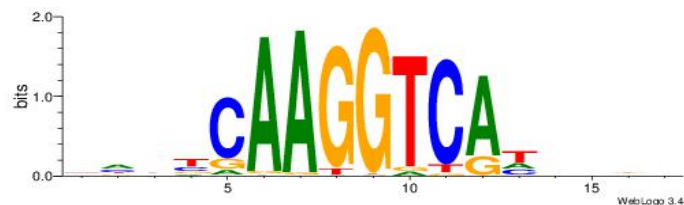
Motif ID:	UP00079
Motif name:	Esrra_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.01542

Alignment:

DHDBCAAGGTCAHVBDH
-----AAGGTCAC-----

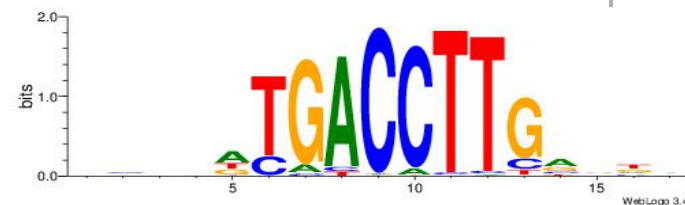
Original motif

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:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0395644

Alignment:

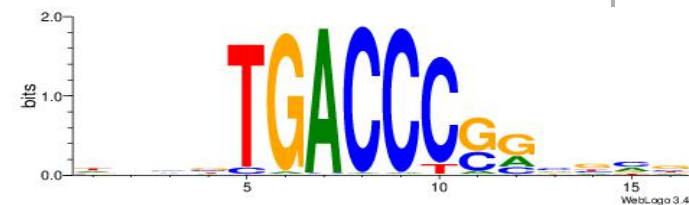
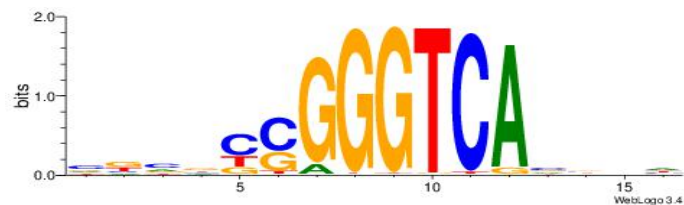
VBVBCSGGGTCAVBBH
-----AAGGTCAC---

Original motif

Consensus sequence: VBVBCSGGGTCAVBBH

Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV

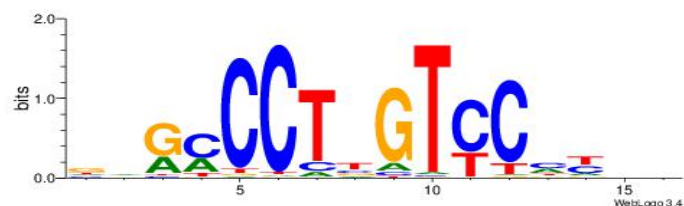


Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0407874

Alignment:
 DDGMCCTBGTCCHYHV
 GTGACCTT-----

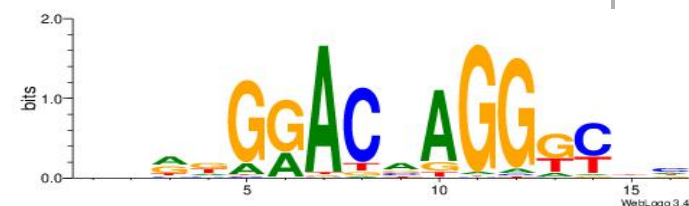
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



Motif ID: [UP00053](#)

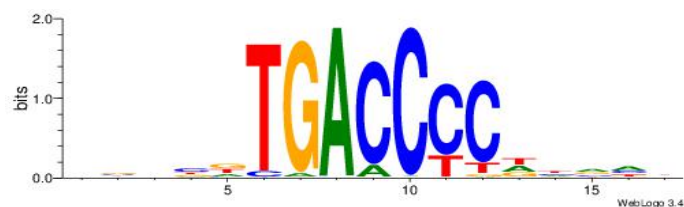
Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0422933

Alignment:

DBHBDTGACCCCDHVHB
 ----GTGACCTT-----

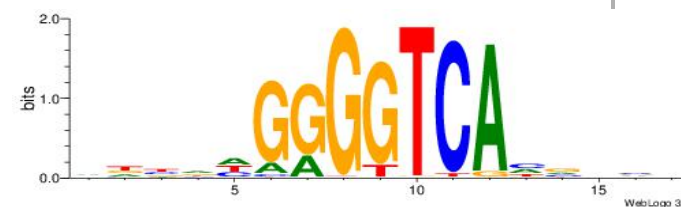
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



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: Backward
 Position number: 5
 Number of overlap: 8

Similarity score: 0.0447444

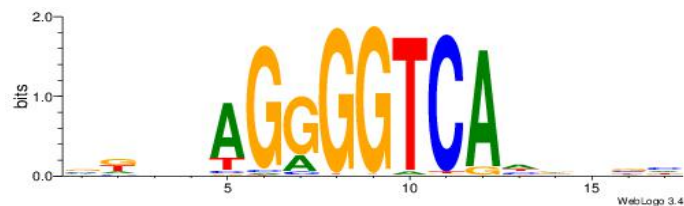
Alignment:

VKBBAGGGGTCAHDBBH

-----AAGGTCAC-----

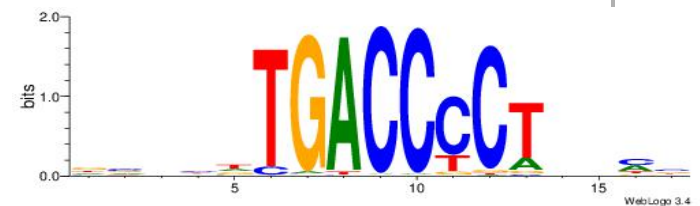
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00066](#)
Motif name: Hnf4a_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: 0.0481418

Alignment:

BBHHAAAGTCCAMTHH

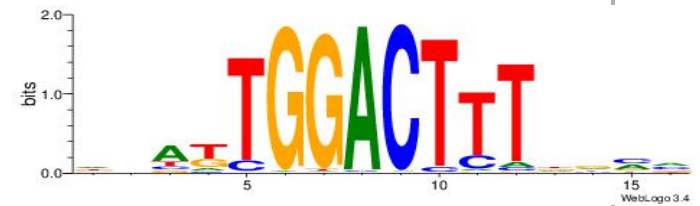
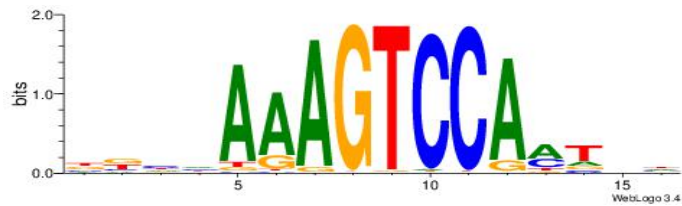
-----AAGGTCAC---

Original motif

Consensus sequence: BBHHAAAGTCCAMTHH

Reverse complement motif

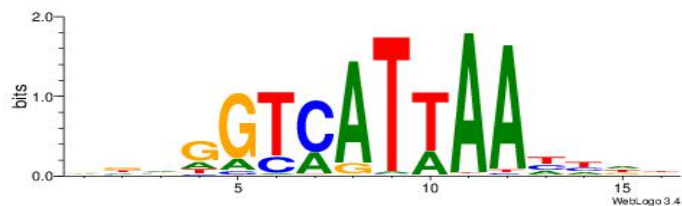
Consensus sequence: HHAYTGGACTTTTHDBV



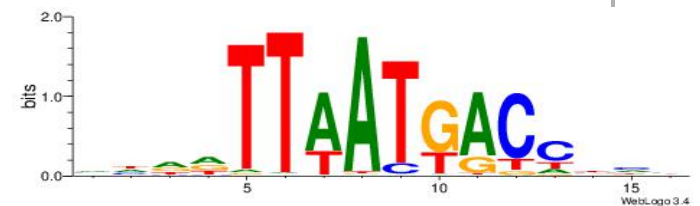
Motif ID: [UP00197](#)
 Motif name: Hoxc9
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0497679

Alignment:
 VDHHTTAATGACCBHV
 -----GTGACCTT-

Original motif
 Consensus sequence: VDVGGTCATTAAHHDB



Reverse complement motif
 Consensus sequence: VDHHTTAATGACCBHV



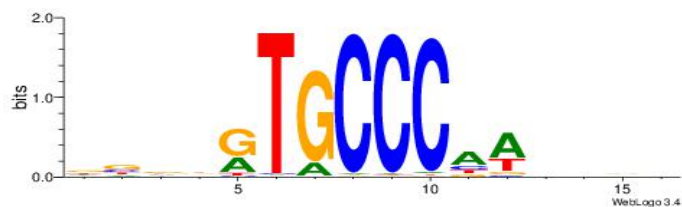
Motif ID: [UP00035](#)
 Motif name: Hic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0500062

Alignment:

DBDDRTGCCCCAWDHDV
 ----GTGACCTT----

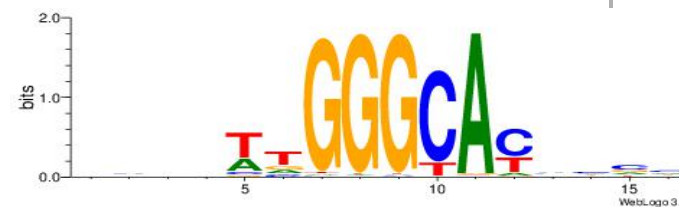
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



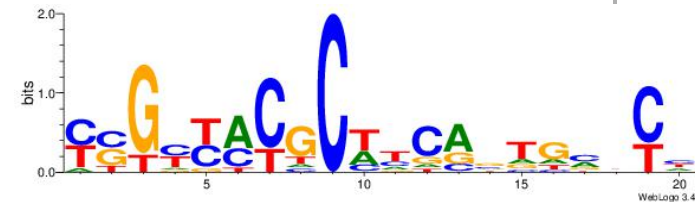
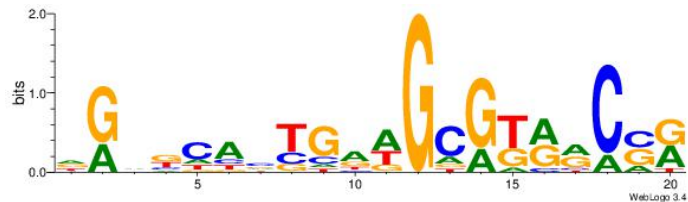
Dataset #: 2 Motif ID: 45 Motif name: Pax5

Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR

Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBCD



Best Matches for Motif ID 45 (Highest to Lowest)

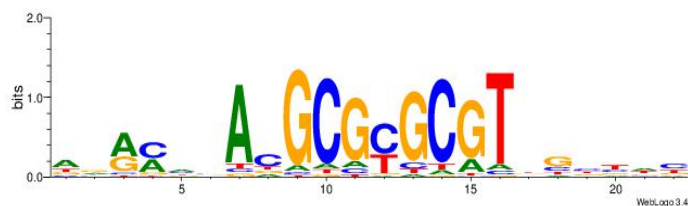
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0499537

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -DGVBCABTGDWGCGRRCR-

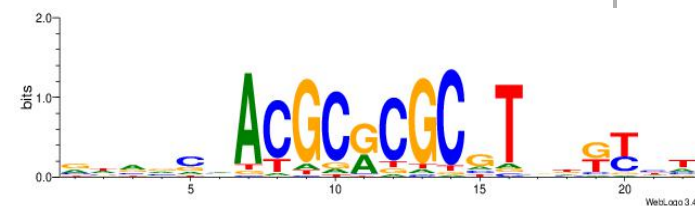
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



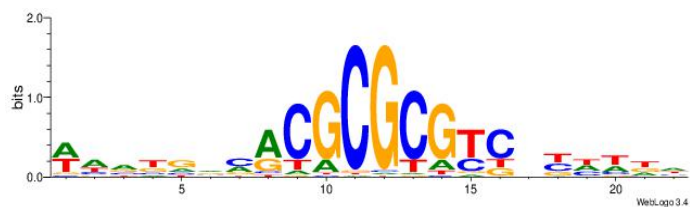
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0520196

Alignment:

HDWHMHGACGCGCGTRBVVBHW
 DGVBCABTGDWGCGRRCRCSR--

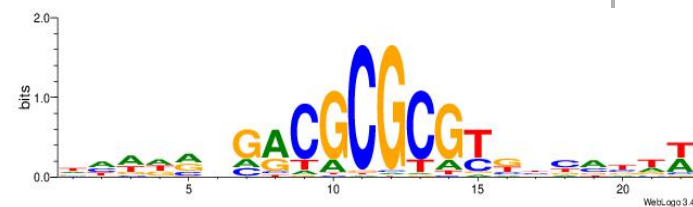
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW

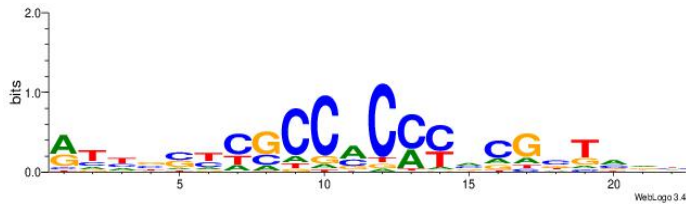


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2

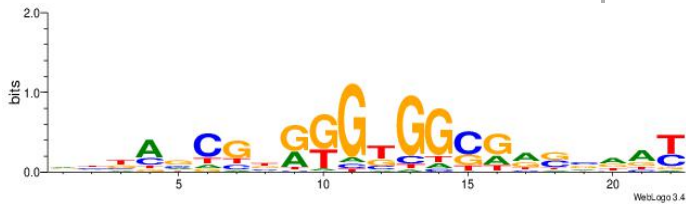
Number of overlap: 20
Similarity score: 0.0542764

Alignment:
HDBABCGBKRGYGGCGMSBHAK
-DGVBCABTGDWGCGRRCR-

Original motif
Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



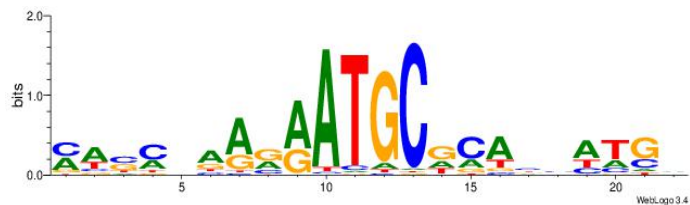
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.0560636

Alignment:
DCATDBTGHGCATKMTTBRWR
--MSGKKRCGCWDCABTGBCD

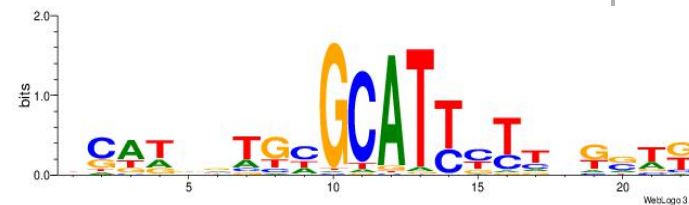
Original motif

Reverse complement motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



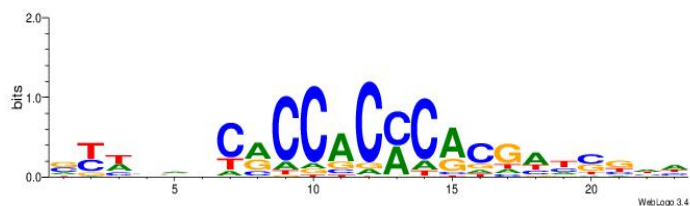
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0595671

Alignment:

VYWVVHCRCCACMCACGAHSBHH
DGVBCABTGDWGCGRRCRCSR---

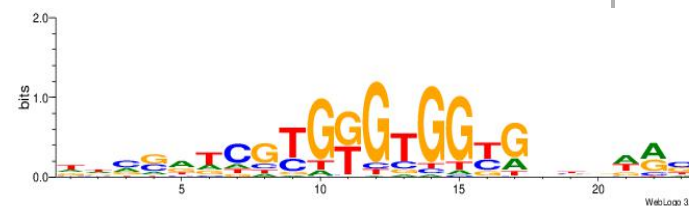
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Motif ID: [UP00528](#)

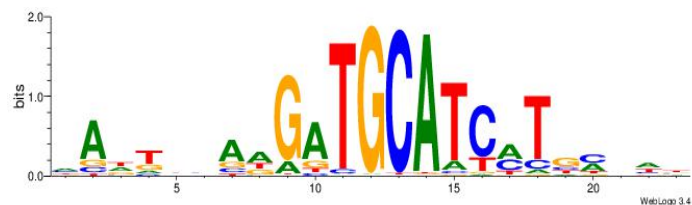
Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0602559

Alignment:

HADTBVADGATGCATCMTGMVHB
 DGVBCABTGDWGCGRRCR---

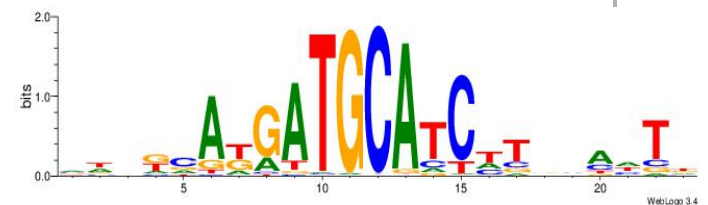
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH

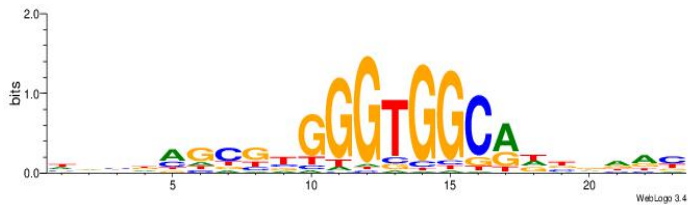


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20

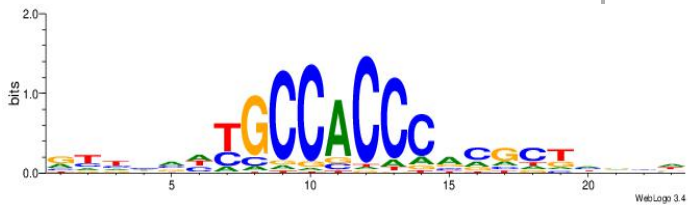
Similarity score: 0.0607506

Alignment:
HVBDAGCGBGGGTGGCRDBDDDB
DGVBCABTGDWCGKRRCSR---

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH

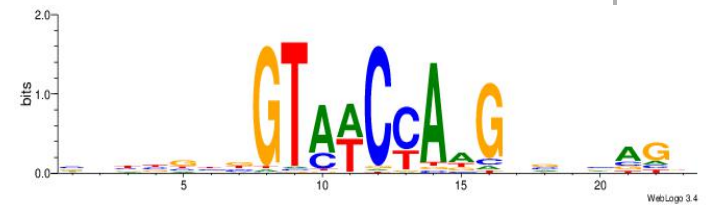
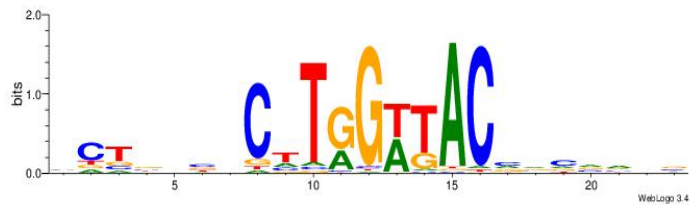


Motif ID: [UP00098](#)
Motif name: Rfx3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 20
Similarity score: 0.0611227

Alignment:
BDBBVVGTAWCCAAGVBHBAGB
MSGKKRCGCWDCABTGBBCD---

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB

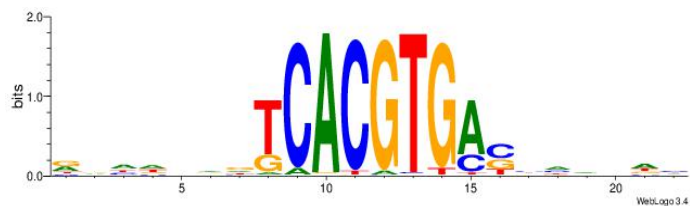
Reverse complement motif
Consensus sequence: BDBBVVGTAWCCAAGVBHBAGB



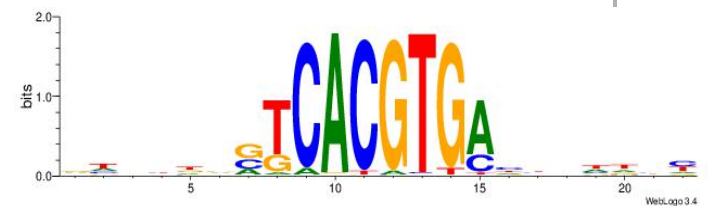
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0611361

Alignment:
 RDHDBVDTACGTGASBHVHDH
 --MSGKKRCGCWDCABTGBBCD

Original motif
 Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif
 Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



Motif ID: [UP00034](#)

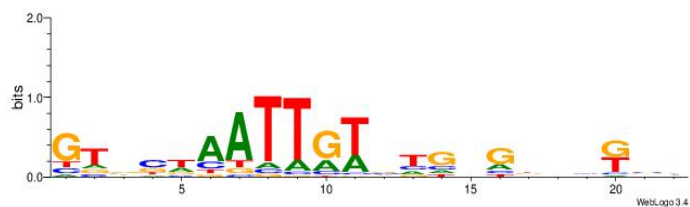
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.061403

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 DGVBCABTGDWGCGRRCR--

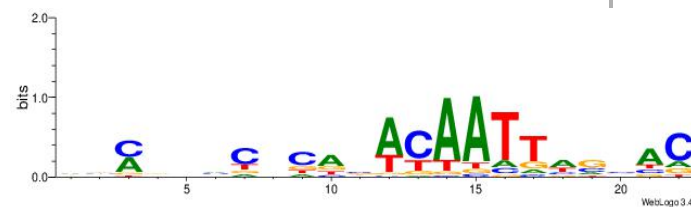
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Dataset #: 2 Motif ID: 46 Motif name: RORA_1

Original motif

Consensus sequence: AWVDAGGTCA



Reverse complement motif

Consensus sequence: TGACCTDVWT



Best Matches for Motif ID 46 (Highest to Lowest)

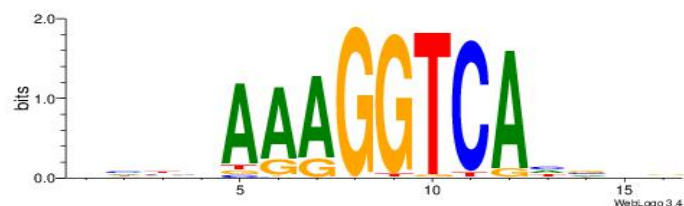
Motif ID: [UP00009](#)
Motif name: Nr2f2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0154749

Alignment:

DHBHAAAGGTCAHVHB
--AWVDAGGTCA----

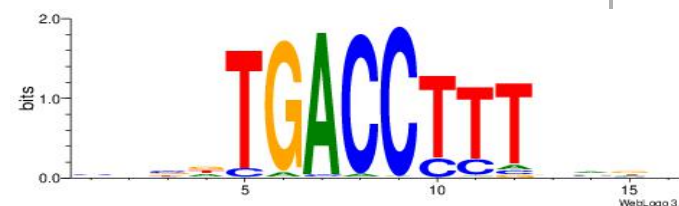
Original motif

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

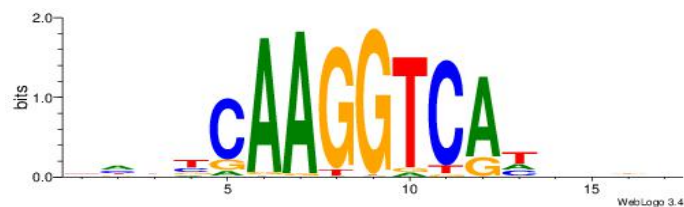
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0176661

Alignment:

```
HHBVHTGACCTTGVDHD
-----TGACCTDVWT--
```

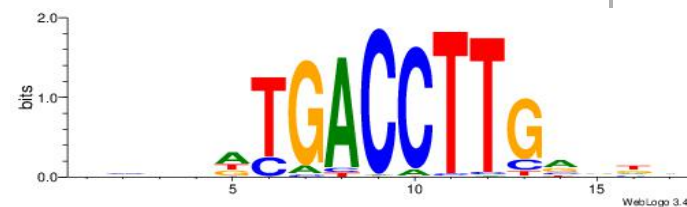
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



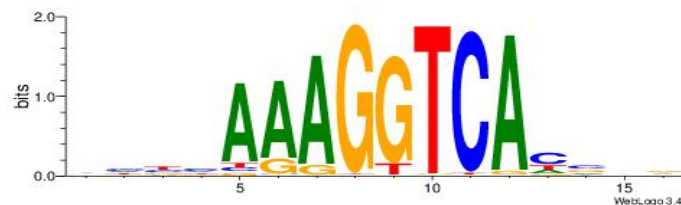
Motif ID:	UP00048
Motif name:	Rara
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0189599

Alignment:

DHBHAAAGGTCACVHD
--AWVDAGGTCA----

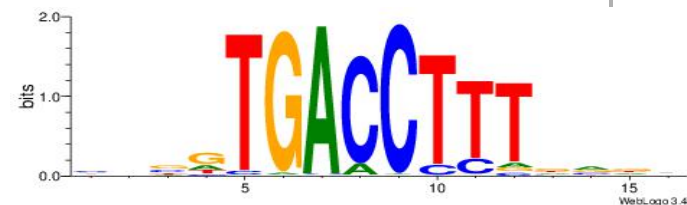
Original motif

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:

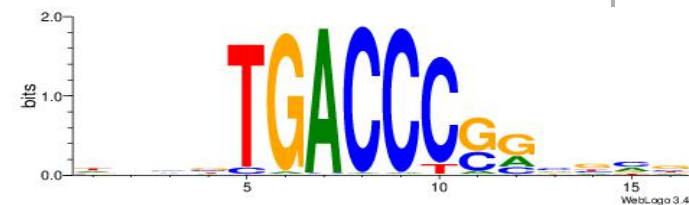
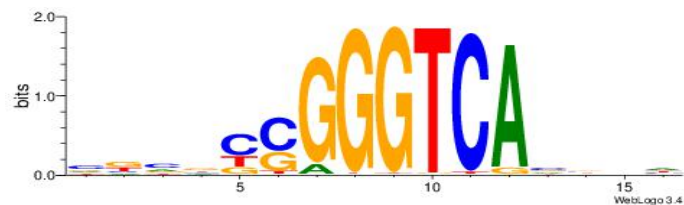
VBVBCSGGGTCAVBBH
--AWVDAGGTCA----

Original motif

Consensus sequence: VBVBCSGGGTCAVBBH

Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV

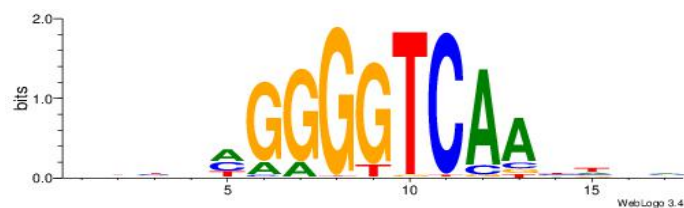


Motif ID: [UP00066](#)
 Motif name: Hnf4a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0341771

Alignment:
 BDBVMGGGGTCAABHDV
 --AWVDAGGTCA-----

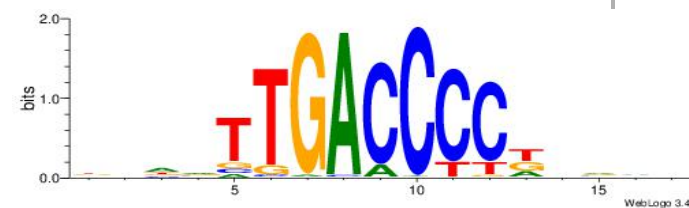
Original motif

Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD



Motif ID: [UP00053](#)

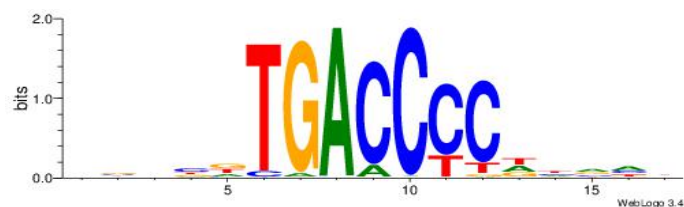
Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0363566

Alignment:

DBHBDTGACCCCDHVHB
 -----TGACCTDVWT--

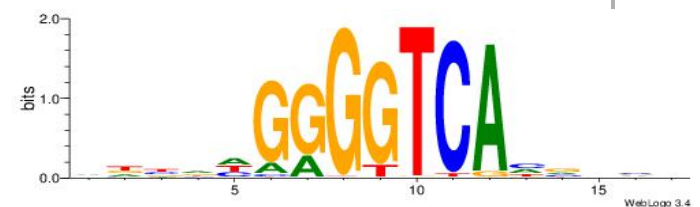
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHBD



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: 10

Similarity score: 0.0391284

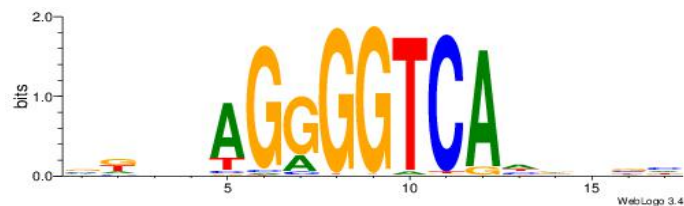
Alignment:

VKBBAGGGGTCAHDBBH

--AWVDAGGTCA-----

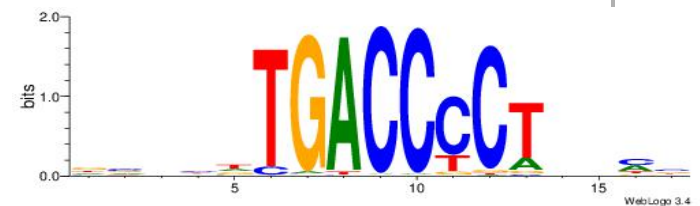
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



Motif ID: [UP00035](#)
Motif name: Hic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0444205

Alignment:

DBDDRTGCCCAWDHDV

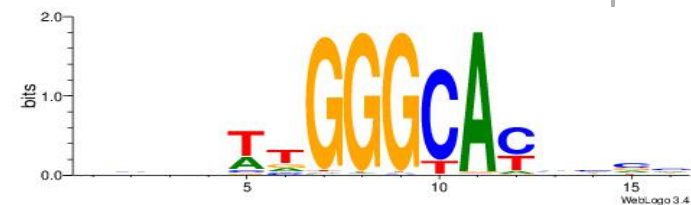
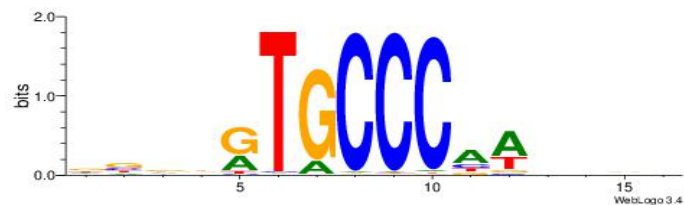
-----TGACCTDVWT-

Original motif

Consensus sequence: DBDDRTGCCCAWDHDV

Reverse complement motif

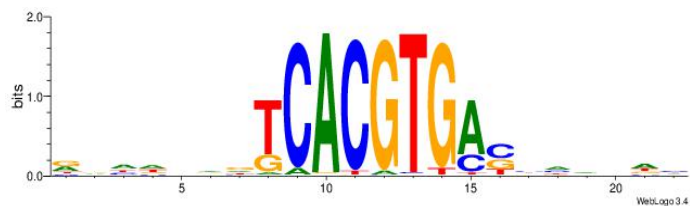
Consensus sequence: VHHDWTGGGCAMDHBH



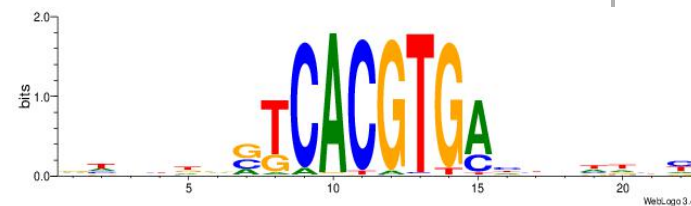
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.0461434

Alignment:
 DDHBHBSTCACGTGAHBBDHMH
 AWVDAGGTCA-----

Original motif
 Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif
 Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



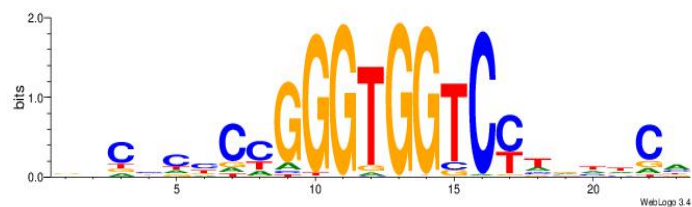
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0489571

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -----TGACCTDVWT--

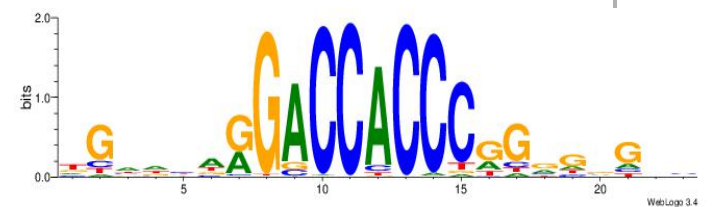
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



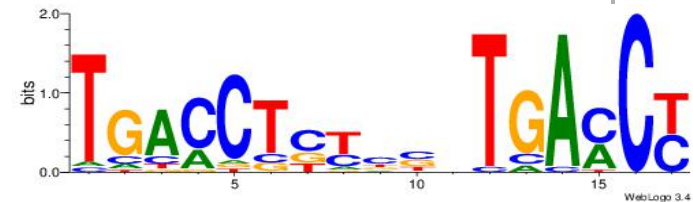
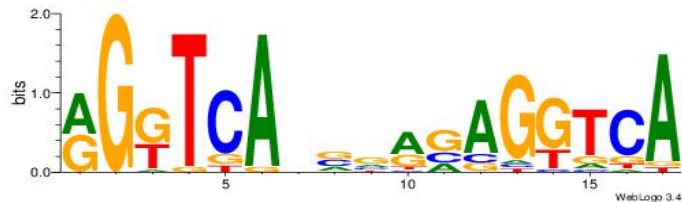
Dataset #: 2 Motif ID: 47 Motif name: RXRRAR_DR5

Original motif

Consensus sequence: RGKTCABVVRGAGGTCA

Reverse complement motif

Consensus sequence: TGACCTCKVVBGTGAYCK



Best Matches for Motif ID 47 (Highest to Lowest)

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: 1
 Number of overlap: 17
 Similarity score: 0.0585087

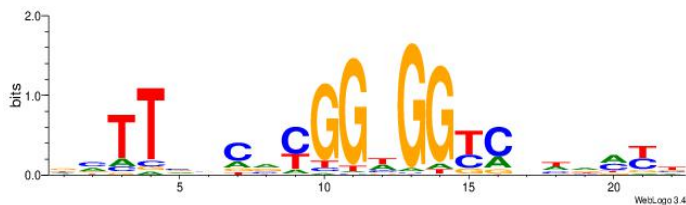
Alignment:

```

DVTTVVCVYGGHGGYCHHDMYB
RGKTCABVVRGAGGTCA-----
  
```

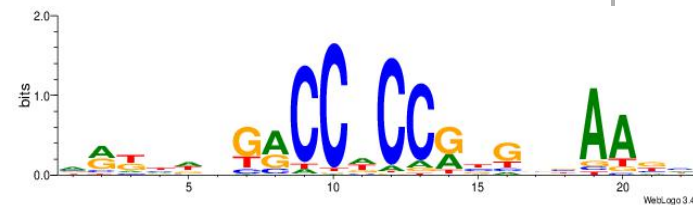
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH



Motif ID: [UP00034](#)

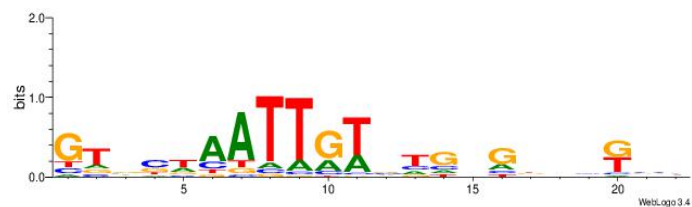
Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0709955

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 -----RGKTCABVVRGAGGTCA

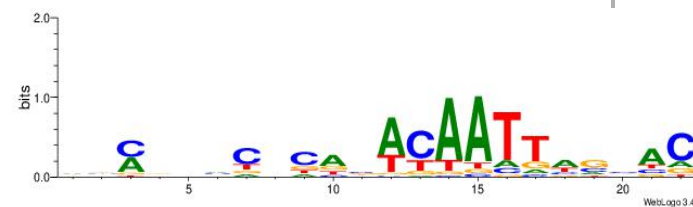
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



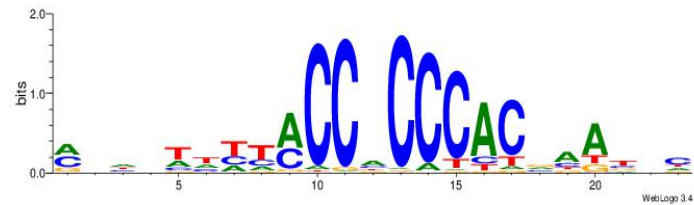
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.075055

Alignment:

DVVTTVGTGGGHGGYAMHWHHHY
RGKTCABVVRGAGGTCA-----

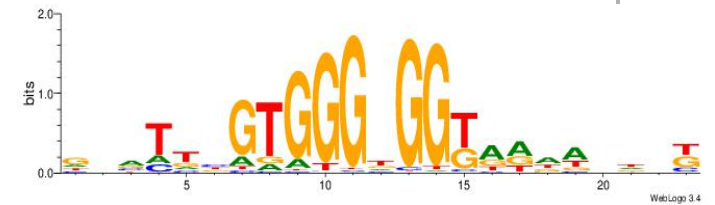
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



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:	Forward
Position number:	7
Number of overlap:	17
Similarity score:	0.0758824

Alignment:

BBBDVVRGACCACCAVGABBAB
-----RGKTCABVVRGAGGTCA

Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

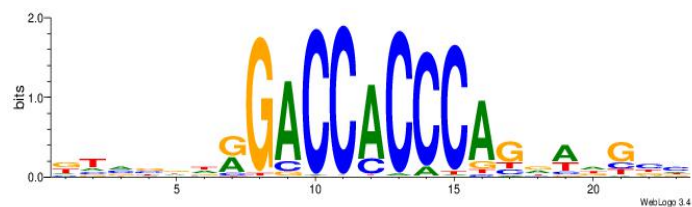
Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0760211

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 -----RGKTCABVVRGAGGTCA

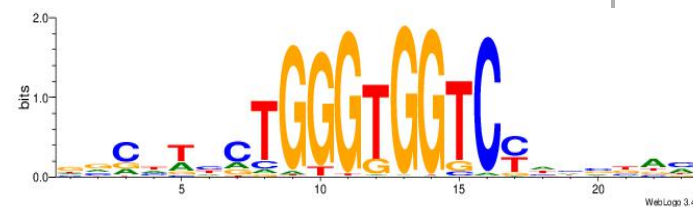
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAA



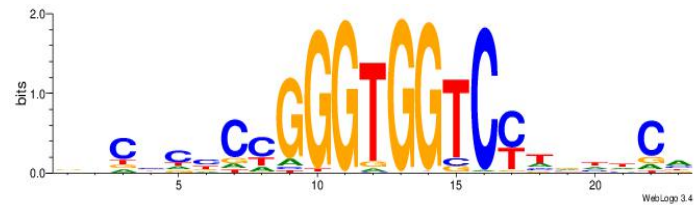
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 17
 Similarity score: 0.0763398

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
TGACCTCKVVBGTGAYCK-----

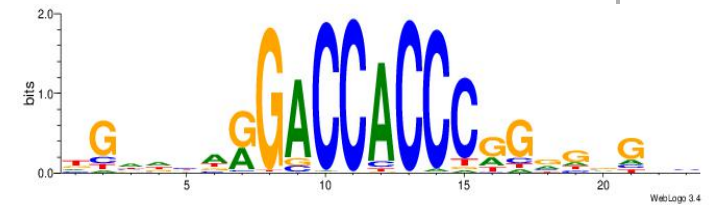
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



Motif ID:	UP00539
Motif name:	Gli2_v016060_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0768658

Alignment:

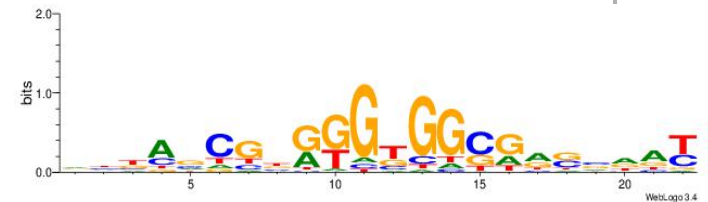
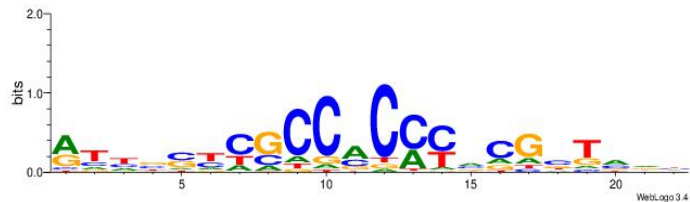
HDBABCGBKRGYGGCGMSBHAK
RGKTCABVVRGAGGTCA-----

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK

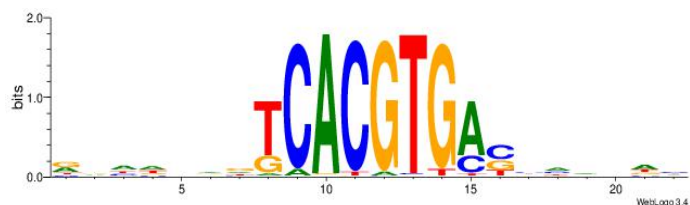


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 17
 Similarity score: 0.0784072

Alignment:
 DDHBHBSTCACGTGAHBBDHMH
 ----RGKTCABVVRGAGGTCA-

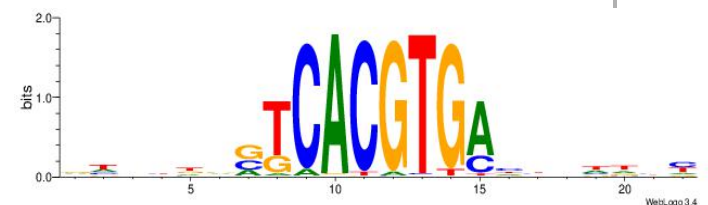
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



Motif ID: [UP00538](#)

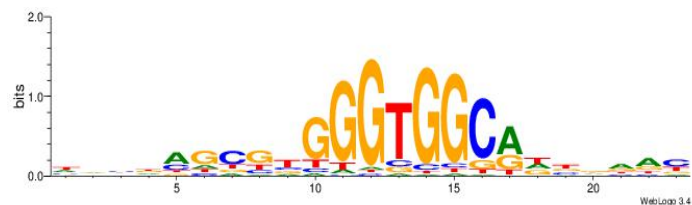
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0794665

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 RGKTCABVVRGAGGTCA-----

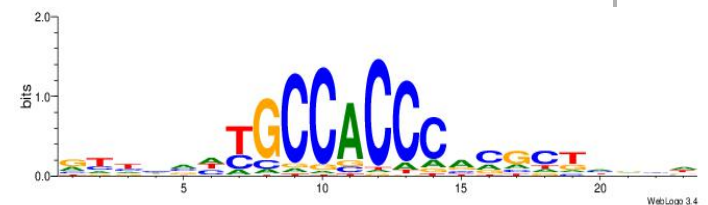
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



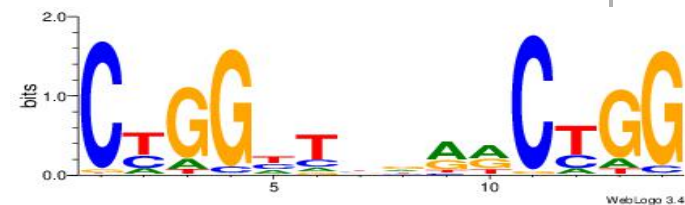
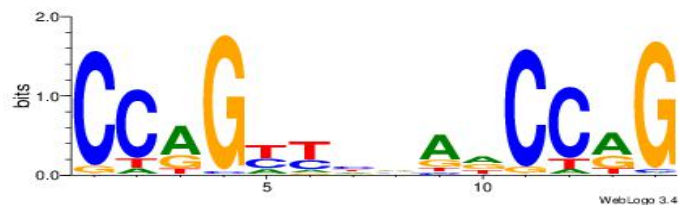
Dataset #: 2 Motif ID: 48 Motif name: Tcfcp2l1

Original motif

Consensus sequence: CCAGYYHVADCCRG

Reverse complement motif

Consensus sequence: CKGGDTBDMMCTGG



Best Matches for Motif ID 48 (Highest to Lowest)

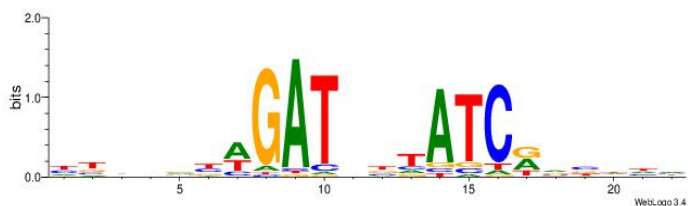
Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0527249

Alignment:

HBHDVBWGATHBTATCRVBHHH
 ----CCAGYYHVADCCRG----

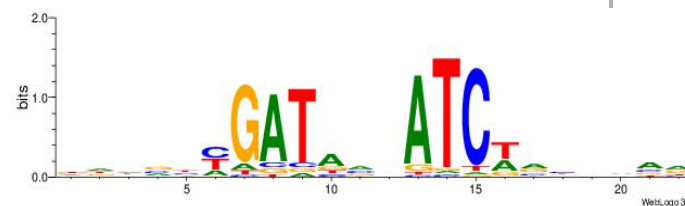
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



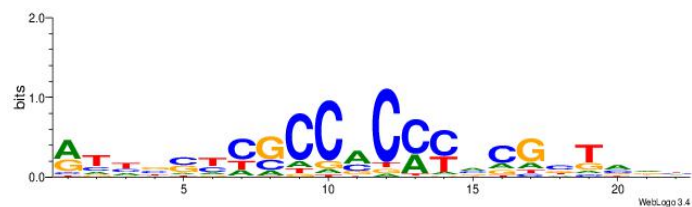
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0551691

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 -----CCAGYYHVADCCRG

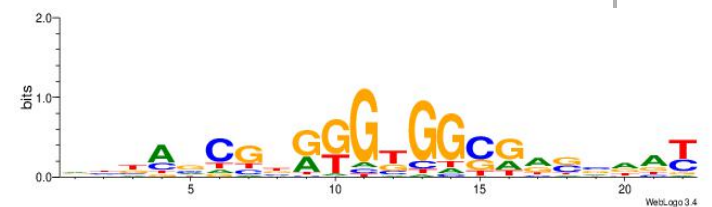
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1

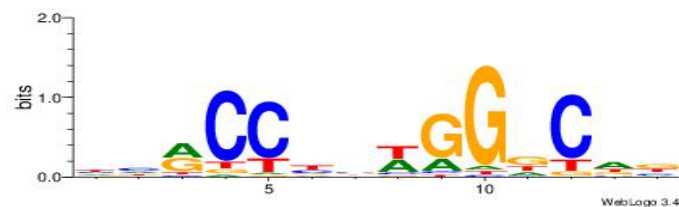
Number of overlap: 14
Similarity score: 0.0560983

Alignment:

HHRCCBBWGGDCDB
CCAGYYHVADCCRG

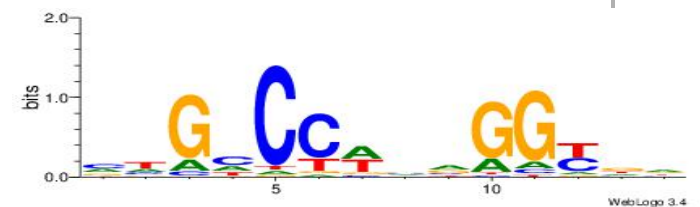
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGKGDH



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: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0566467

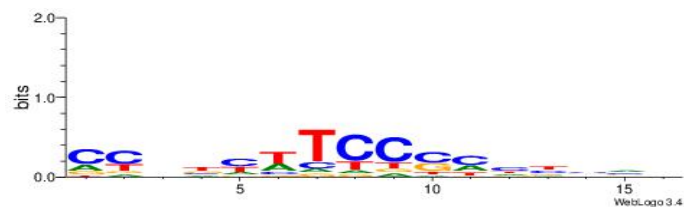
Alignment:

CYDBYWTCCSMHBVVH
CCAGYYHVADCCRG--

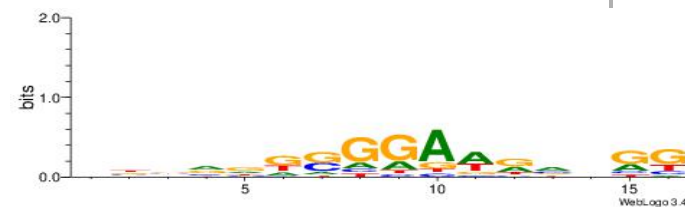
Original motif

Reverse complement motif

Consensus sequence: CYDBYWTCCSMHBVVH



Consensus sequence: DBVVD RSGGAWKVHKG

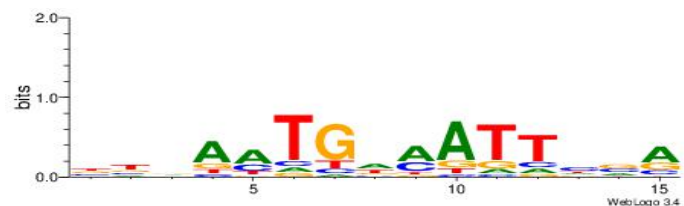


Motif ID: [UP00075](#)
Motif name: Sox15_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0577636

Alignment:
BBVAATGDMATTHVA
-CCAGYYHVADCCRG

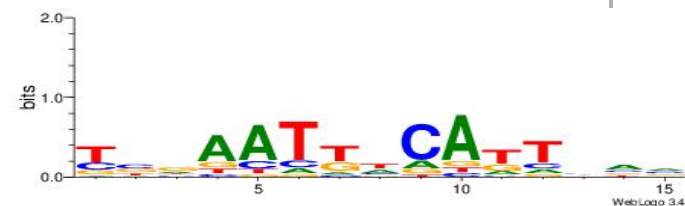
Original motif

Consensus sequence: BBVAATGDMATTHVA



Reverse complement motif

Consensus sequence: TVDAATYDCATTVVV



Motif ID: [UP00096](#)

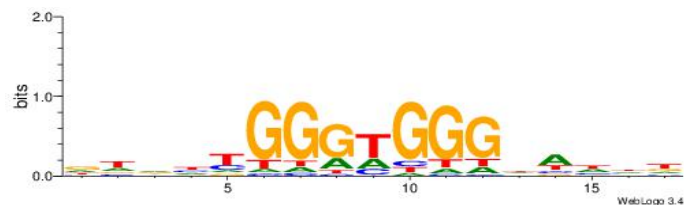
Motif name: Sox13_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0587893

Alignment:

DDDHTGGGTGGGHAHHD
 ---CKGGDTBDMCTGG

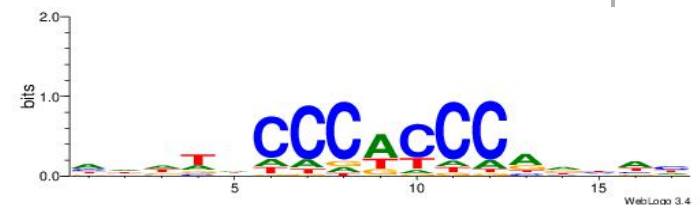
Original motif

Consensus sequence: DDDHTGGGTGGGHAHHD



Reverse complement motif

Consensus sequence: DHHTHCCCACCCAHHDDH

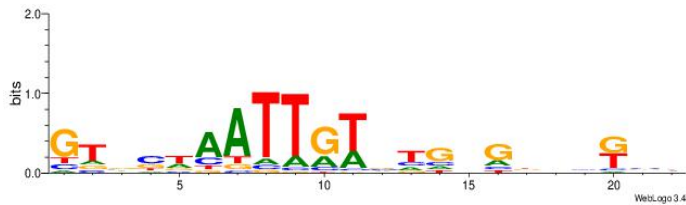


Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14

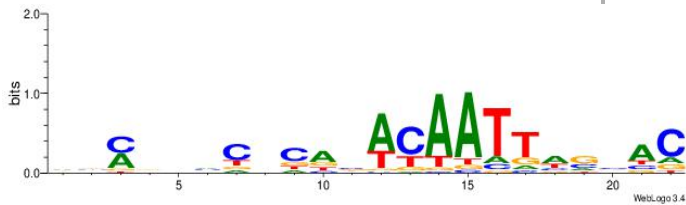
Similarity score: 0.0590238

Alignment:
VYDDDDCHCAVACAATTDBVAC
--CCAGYYHVADCCRG-----

Original motif
Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif
Consensus sequence: VVYDDDDCHCAVACAATTDBVAC

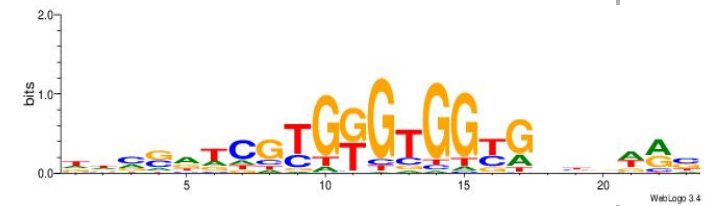
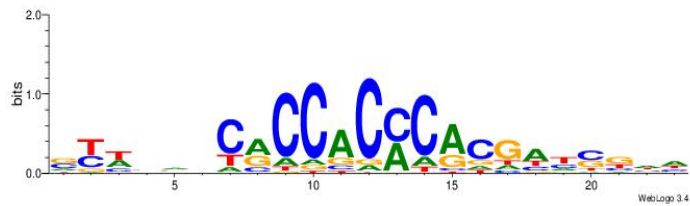


Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 14
Similarity score: 0.0596904

Alignment:
VYWVVHCRCCACMCACGAHSBHH
-----CCAGYYHVADCCRG-

Original motif
Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



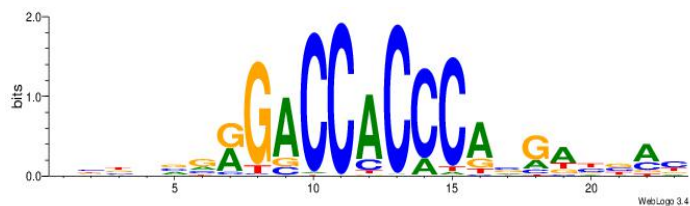
Motif ID:	UP00538
Motif name:	Gli1_v015681_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0597695

Alignment:

BBBDVVRGACCACCCAVGABBAB
-----CCAGYYHVADCCRG

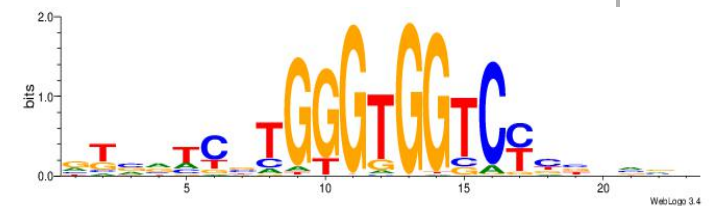
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVCVTGGGTGGTCMVVDVBB



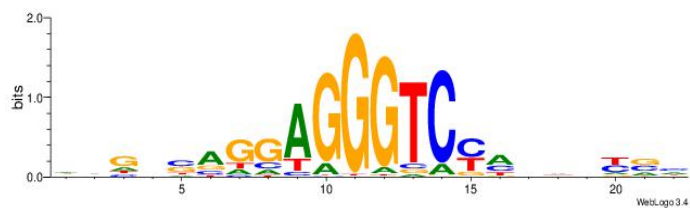
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0598357

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
 -----CKGGDTBDMMCTGG-

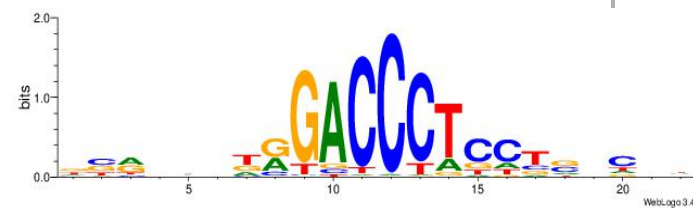
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



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 Runtime: 667.125 seconds

MOTIFSIM is written by Ngoc Tam L. Tran
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