



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

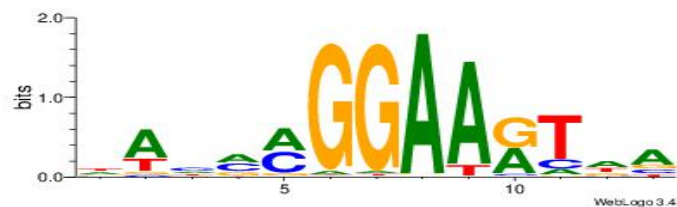
Alignment:

TDAMTTCCYYDTD

---MTTCCK----

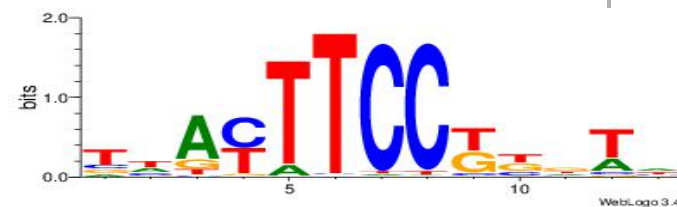
Original motif

Consensus sequence: DAHMMGGAARTDA



Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



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

Alignment:

BDAWGVGGAAGTDH

-----RGAAR---

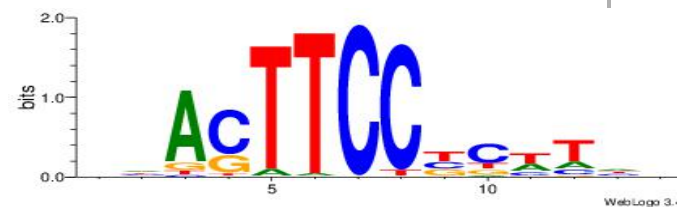
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



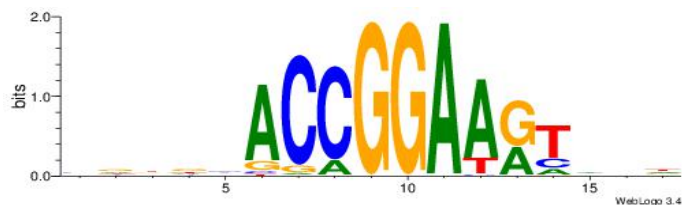
Motif ID: [UP00414](#)
Motif name: Ets1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 6
Similarity score: 0.00356242

Alignment:

DDBAMTTCCGGTDHDB
----MTTCK-----

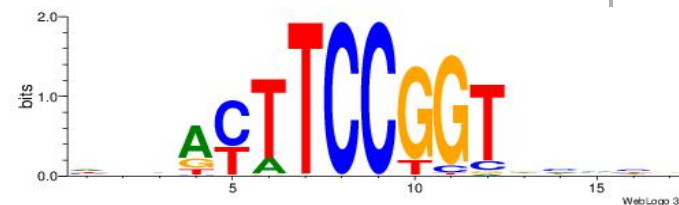
Original motif

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

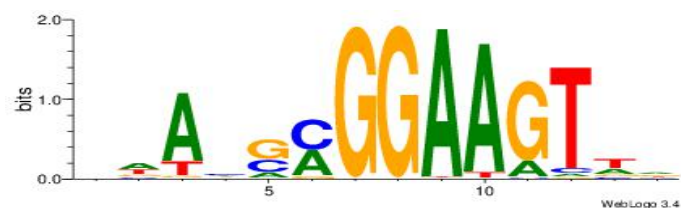
Position number: 4
Number of overlap: 6
Similarity score: 0.00439981

Alignment:

BWAHSMGGAAGTWD
-----RGAAR---

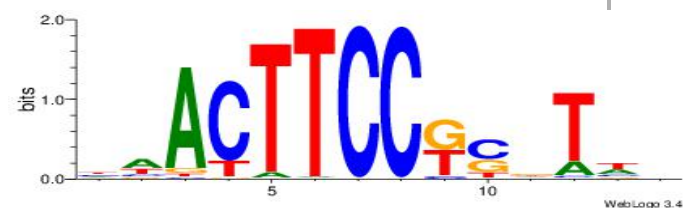
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



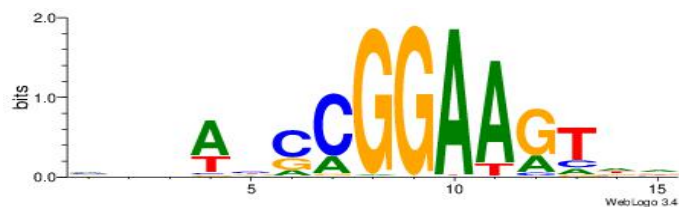
Motif ID: [UP00015](#)
Motif name: Ehf_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 6
Similarity score: 0.00655644

Alignment:

DDACTTCCGGBTHBB
---MTTCK-----

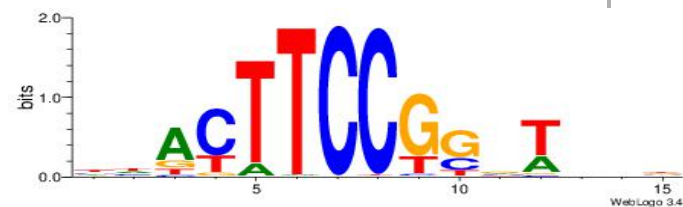
Original motif

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

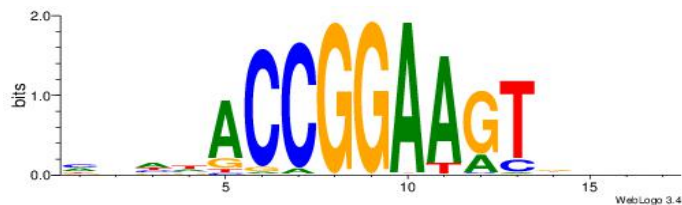
Alignment:

BHHHACTTCGGTHHBD

-----MTTCCK-----

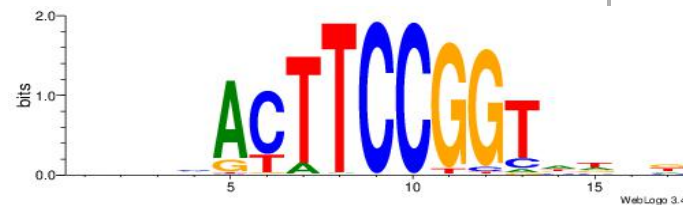
Original motif

Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif

Consensus sequence: BHHHACTTCGGTHHBD



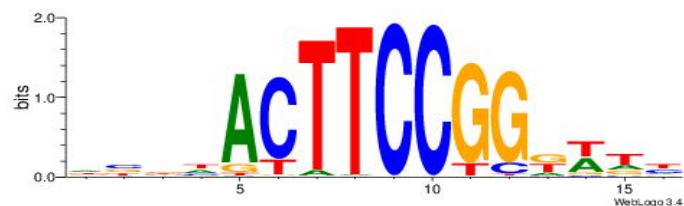
Motif ID: [UP00413](#)
Motif name: Elf4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.00896416

Alignment:

DBBHACTTCCGGKWTH
-----MTTCCK-----

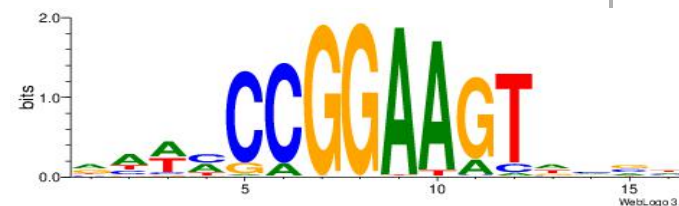
Original motif

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: Forward

Position number: 6
Number of overlap: 6
Similarity score: 0.00975526

Alignment:

VAAAGMGGAAAGTWD
-----RGAAR---

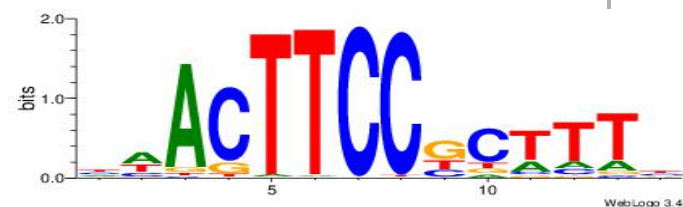
Original motif

Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCRCRCTTTB



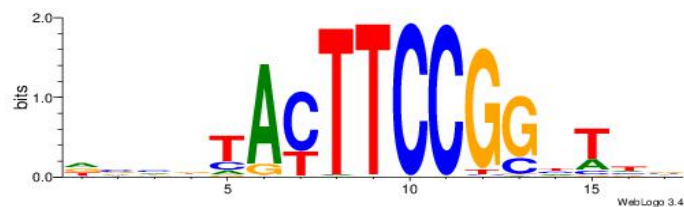
Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0103447

Alignment:

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

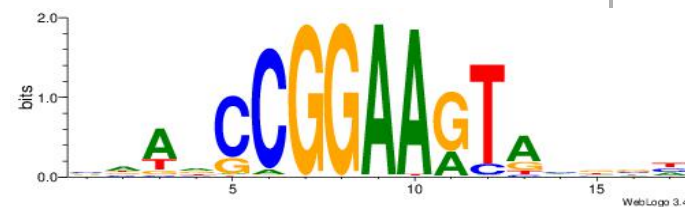
Original motif

Consensus sequence: DVHBTACTTCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



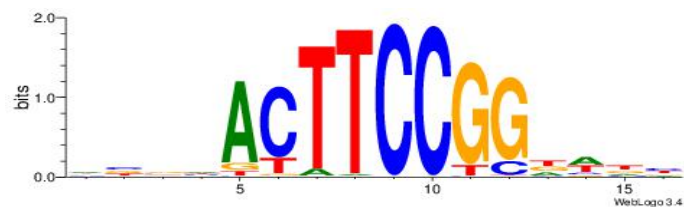
Motif ID: [UP00404](#)
Motif name: Elf2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.010491

Alignment:

```
DBBHACTTCGGDWDB  
-----MTTCCK-----
```

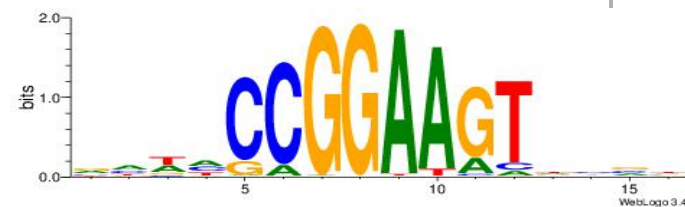
Original motif

Consensus sequence: DBBHACTTCGGDWDB



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:

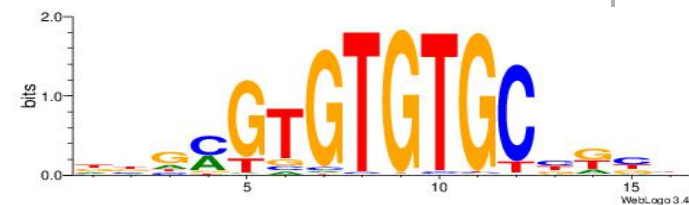
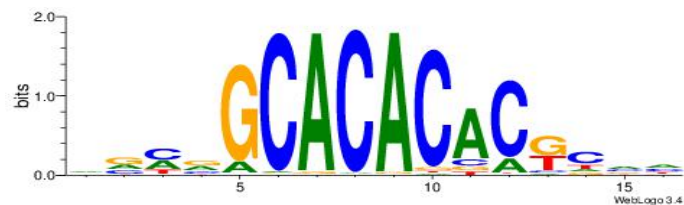
```
DVMVGCACACACKCVH
-----AMACA-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

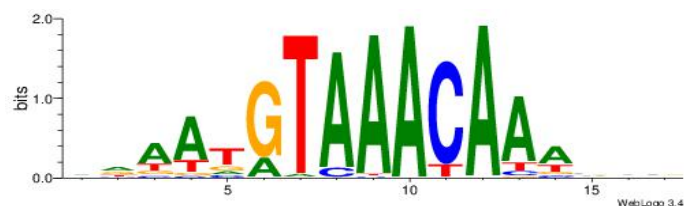


Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00605402

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

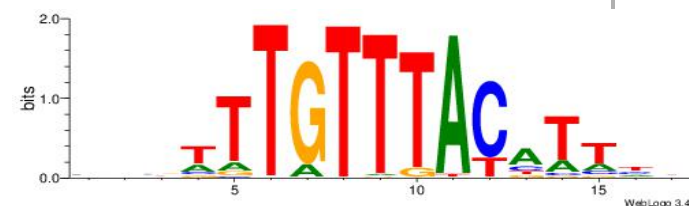
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00041](#)

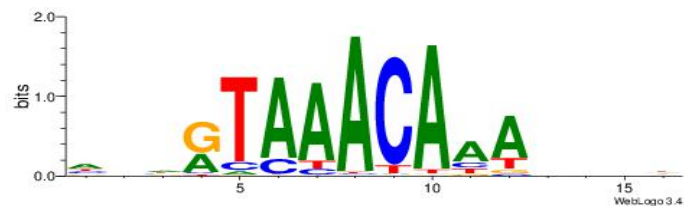
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.00753267

Alignment:

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

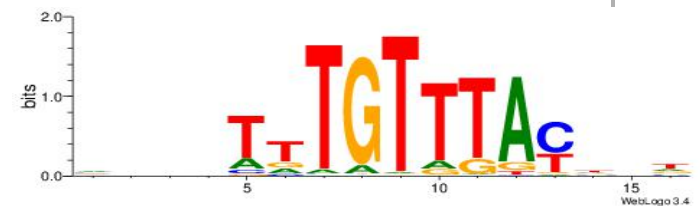
Original motif

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: Forward
 Position number: 8
 Number of overlap: 5

Similarity score: 0.00965634

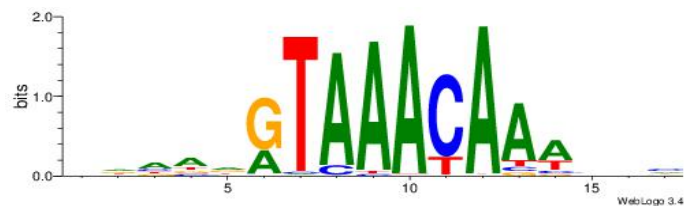
Alignment:

HDHADGTAAACAAVVH

-----AMACA-----

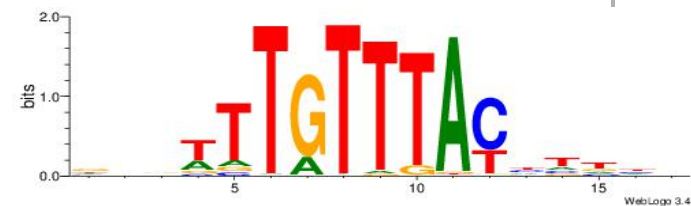
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00061](#)
Motif name: Foxl1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 5
Similarity score: 0.00989492

Alignment:

DWAATRTAAACAAWVVB

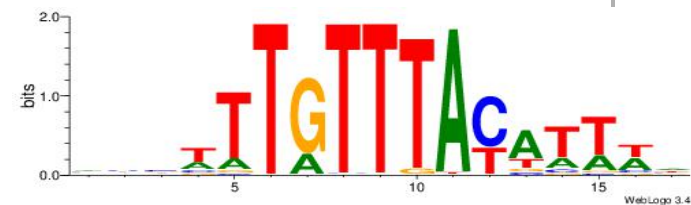
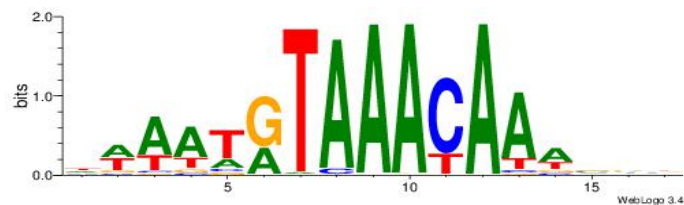
-----AMACA-----

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

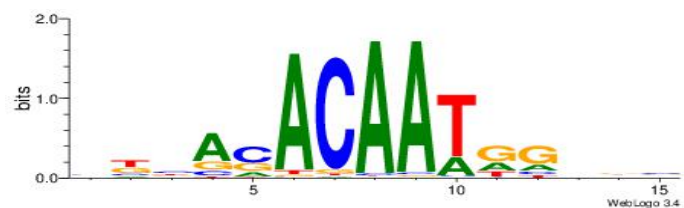
Consensus sequence: VVVWTTGTTTAMATTWD



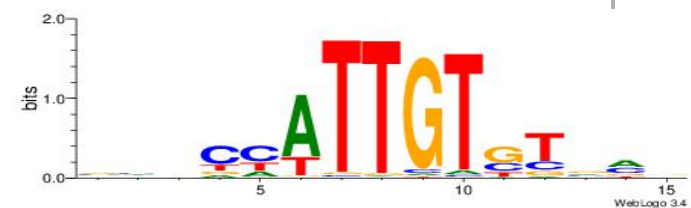
Motif ID: [UP000004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 5
 Similarity score: 0.0116453

Alignment:
 BBDCMATTGTSTBRB
 -----TGTRT---

Original motif
 Consensus sequence: BKBASACAATRGHBB



Reverse complement motif
 Consensus sequence: BBDCMATTGTSTBRB



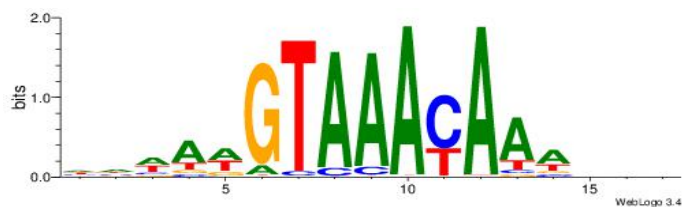
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.0143122

Alignment:

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

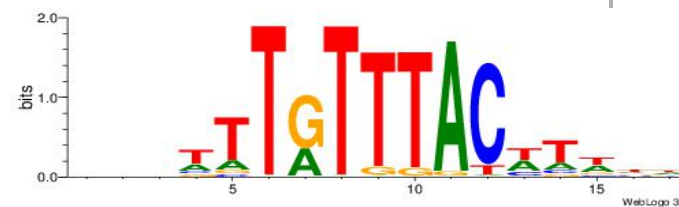
Original motif

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

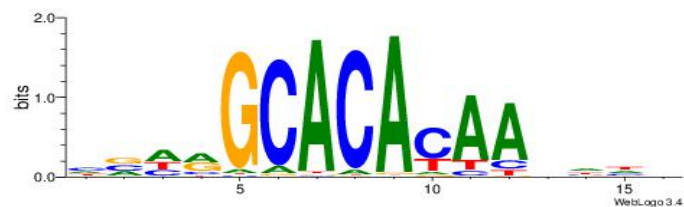
Number of overlap: 5
Similarity score: 0.0153228

Alignment:

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

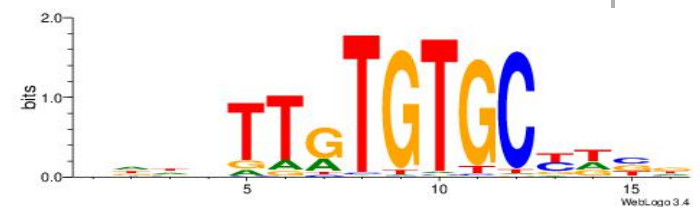
Original motif

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: Forward
Position number: 6
Number of overlap: 5
Similarity score: 0.024195

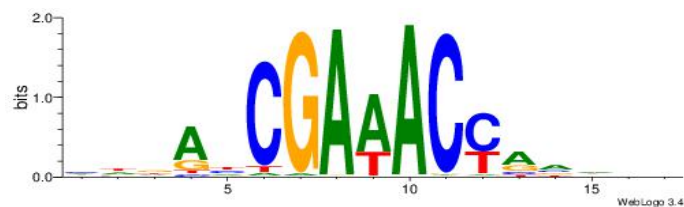
Alignment:

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

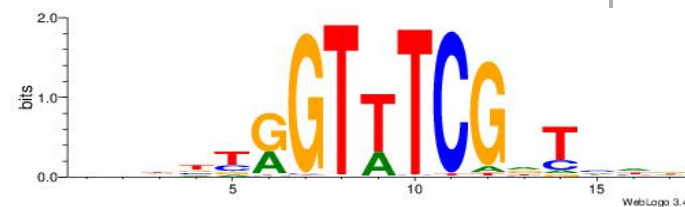
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD



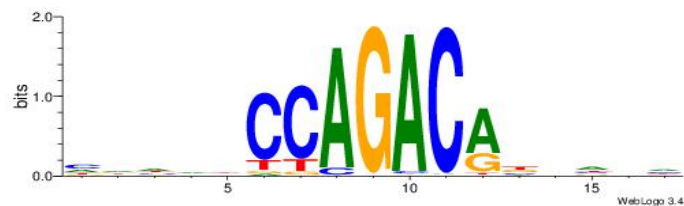
Motif ID: [UP00000](#)
Motif name: Smad3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 5
Similarity score: 0.0255974

Alignment:

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

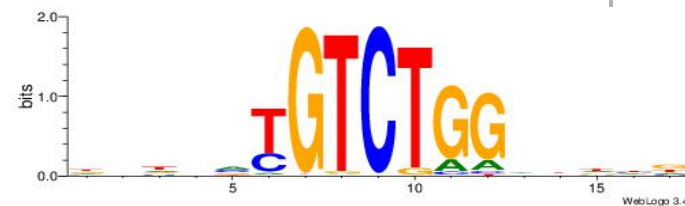
Original motif

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

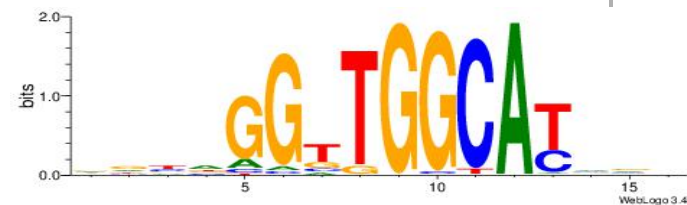
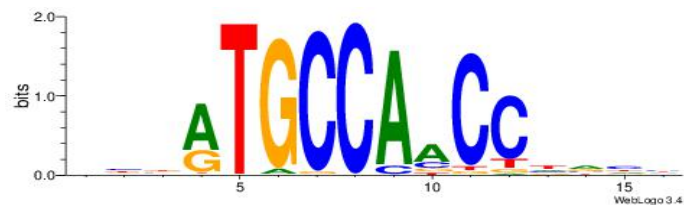
---AGSCWGG-----

Original motif

Consensus sequence: DBBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

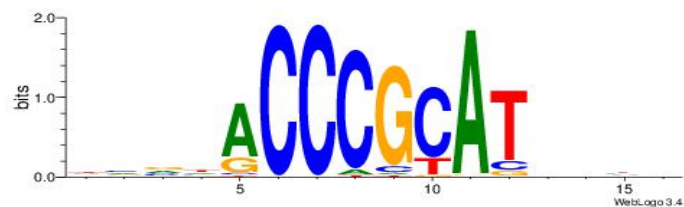


Motif ID: [UP00070](#)
 Motif name: Gcm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00560414

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

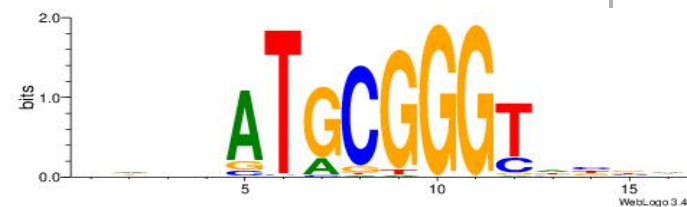
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



Motif ID: [UP00095](#)

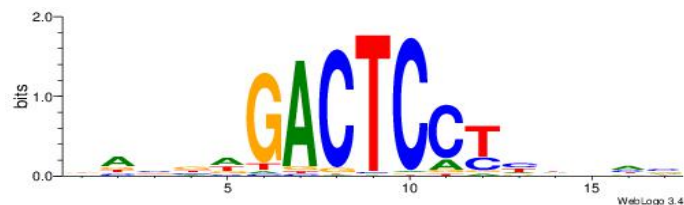
Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 7
 Similarity score: 0.0109149

Alignment:

VHBDDAGGAGTCWBBTD
 -----AGSCWGG--

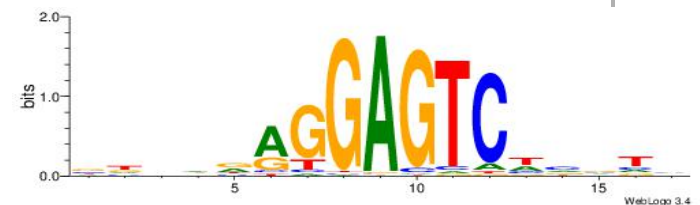
Original motif

Consensus sequence: DABBWGACTCCTHDTVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



Motif ID: [UP00006](#)
 Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 7

Similarity score: 0.0109242

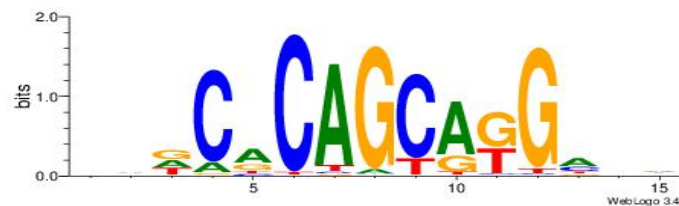
Alignment:

DVHCYTGCTGTGHDH

--CCWGSCT-----

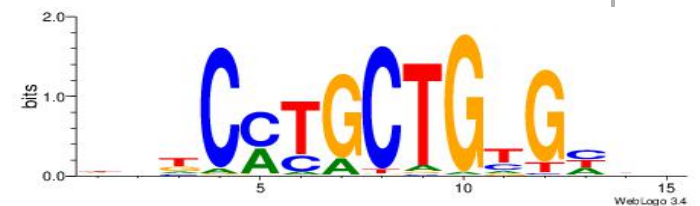
Original motif

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

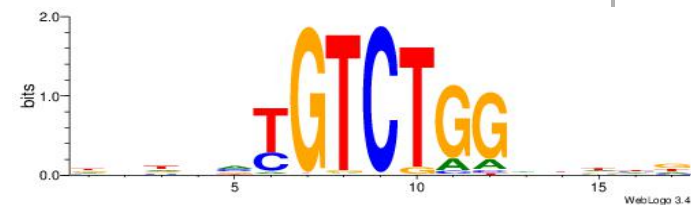
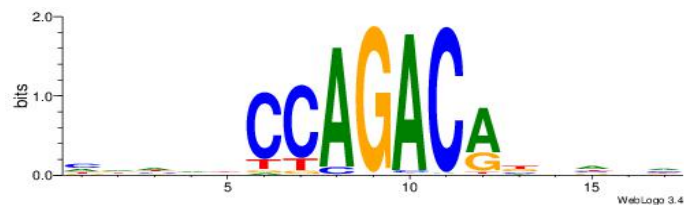
-----CCWGSCT-----

Original motif

Consensus sequence: HDHDDCCAGACABBHVH

Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD

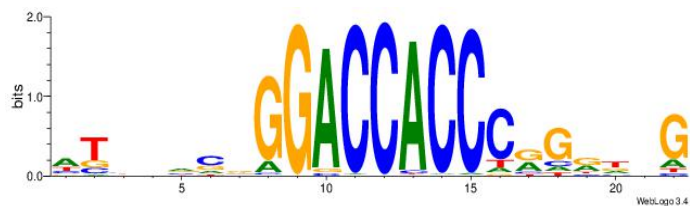


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0115258

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

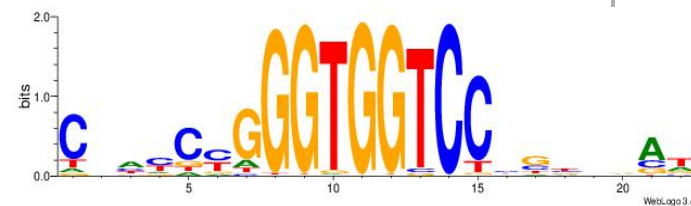
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVAH



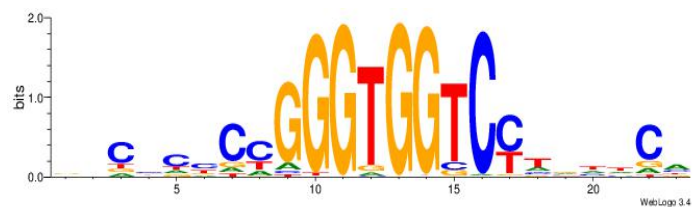
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.0117486

Alignment:

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

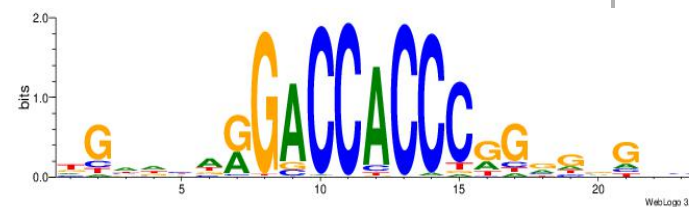
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCAACCGGBGBGDB

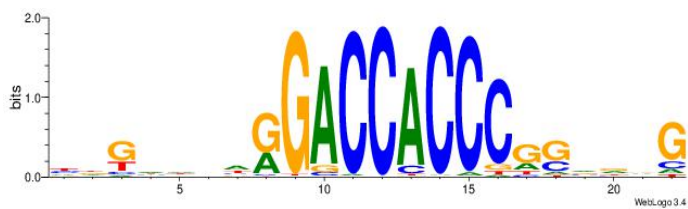


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

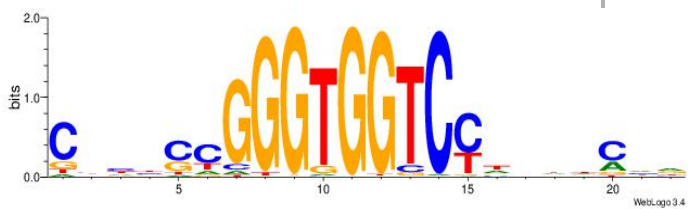
Number of overlap: 7
Similarity score: 0.0131676

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

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



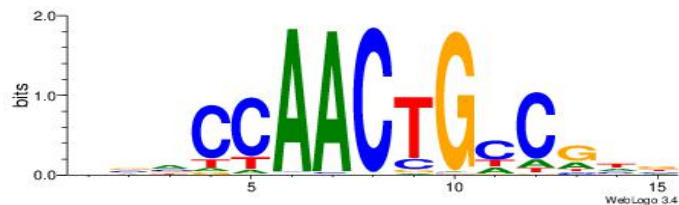
Motif ID: [UP00081](#)
Motif name: Mybl1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 7
Similarity score: 0.0136026

Alignment:
BHCGGCAGTTGGBBB
--AGSCWGG-----

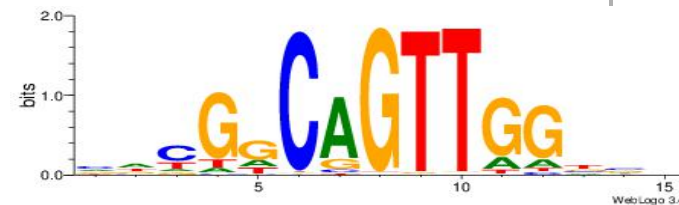
Original motif

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

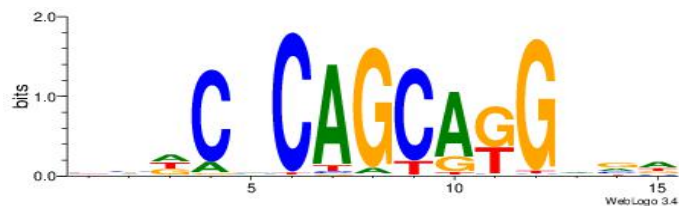
Alignment:

DVBCYTGCTGBGDDD

--CCWGSCT-----

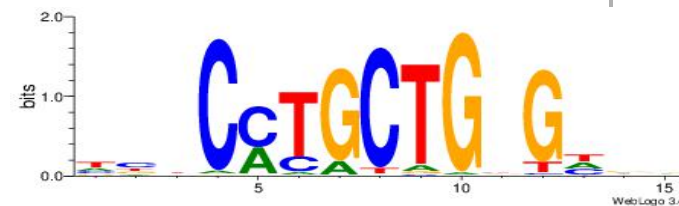
Original motif

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

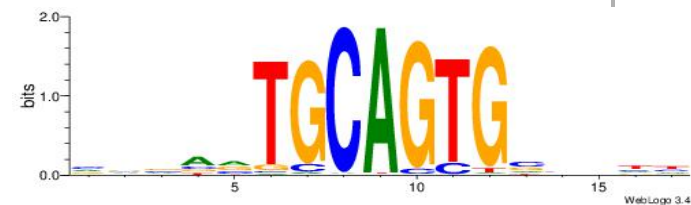
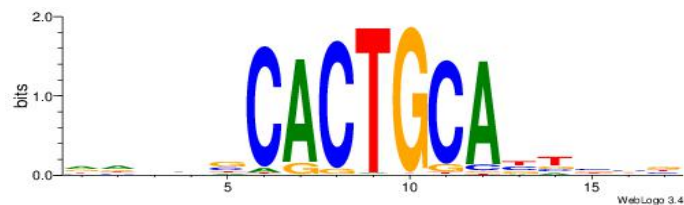
-----KCAGAG-----

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

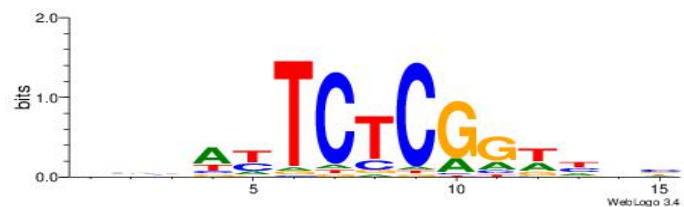


Motif ID: [UP00018](#)
 Motif name: Irf4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.00610915

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

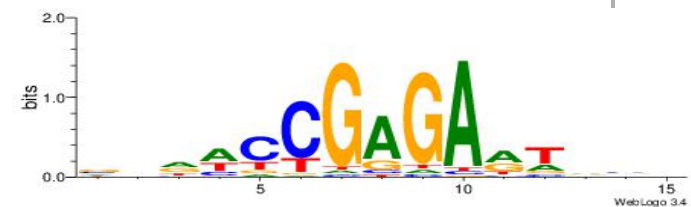
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [UP00095](#)

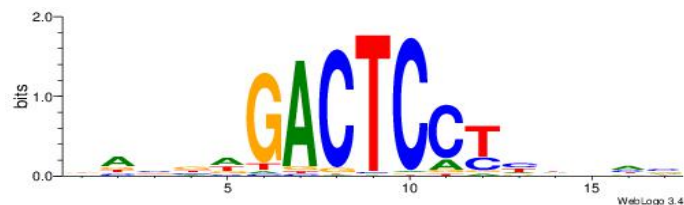
Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00648219

Alignment:

VHBDDAGGAGTCWBBTD
 ----KCAGAG-----

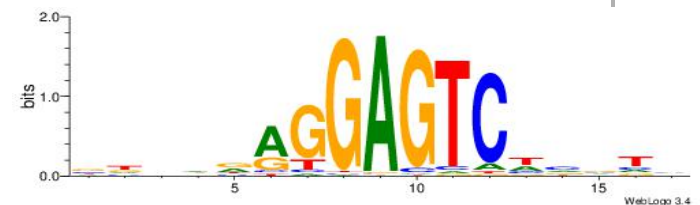
Original motif

Consensus sequence: DABBWGACTCCTHDTVHV



Reverse complement motif

Consensus sequence: VHBDDAGGAGTCWBBTD



Motif ID: [UP00006](#)
 Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 6

Similarity score: 0.00853125

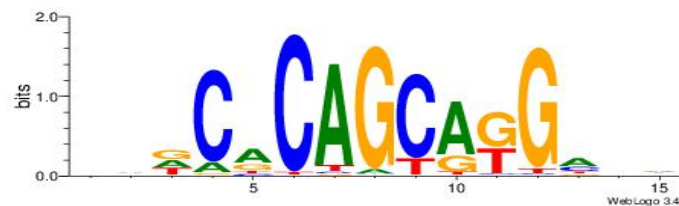
Alignment:

DDDCACAGCAKGHVD

--KCAGAG-----

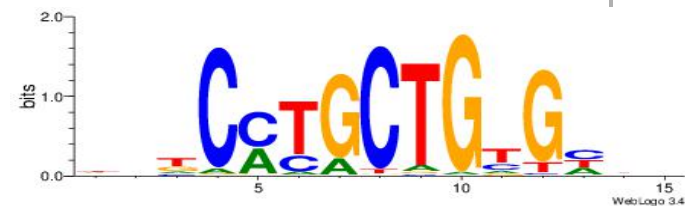
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCTGTGCTGHDH



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: Backward

Position number: 2

Number of overlap: 6

Similarity score: 0.00895004

Alignment:

BHHDTCCTACTCBDBV

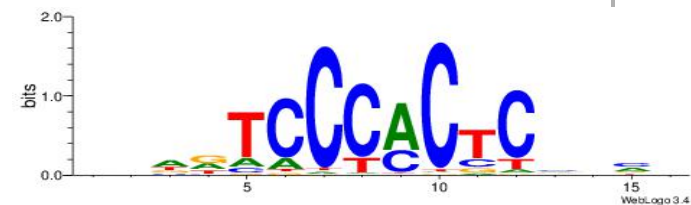
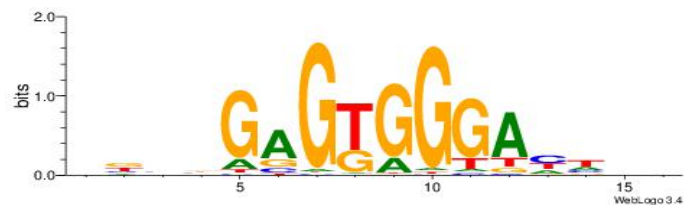
-----CTCTGY-

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

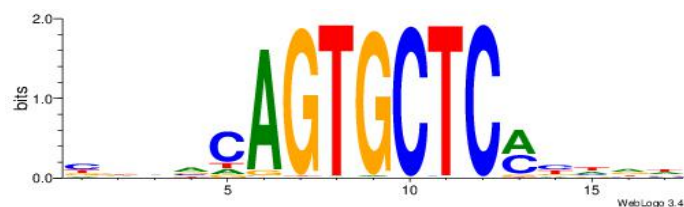
Consensus sequence: BHHDTCCTACTCBDBV



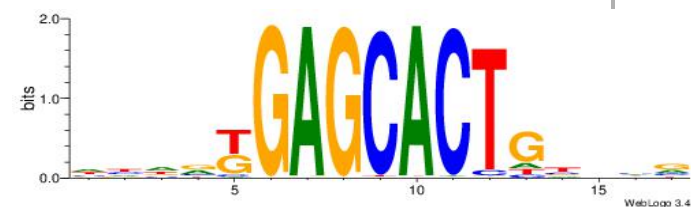
Motif ID: [UP00095](#)
 Motif name: Zfp691_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00955889

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

Original motif
 Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif
 Consensus sequence: DDHBYGAGCACTGBHHB



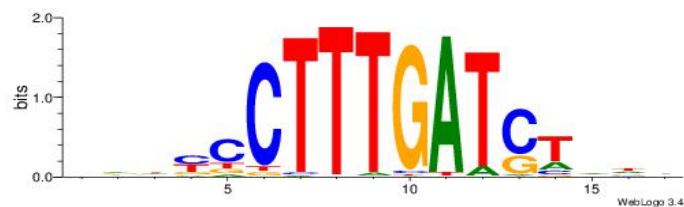
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0106184

Alignment:

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

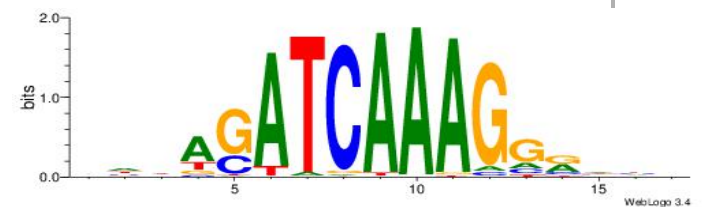
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



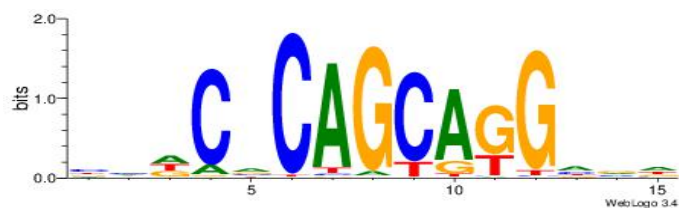
Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8

Number of overlap: 6
Similarity score: 0.0122635

Alignment:
BHDCVCAGCAGGHVD
--KCAGAG-----

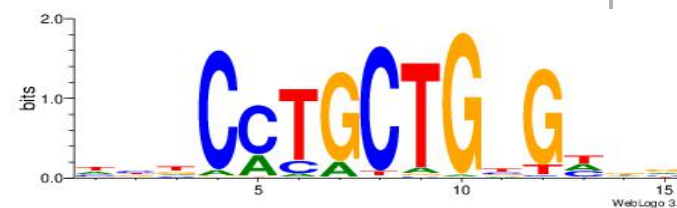
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



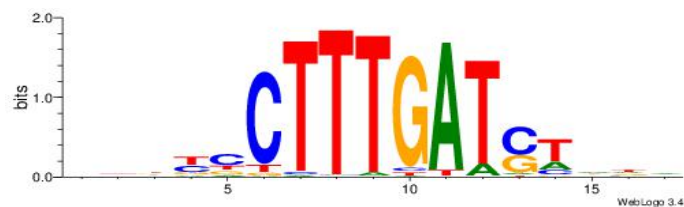
Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0131237

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

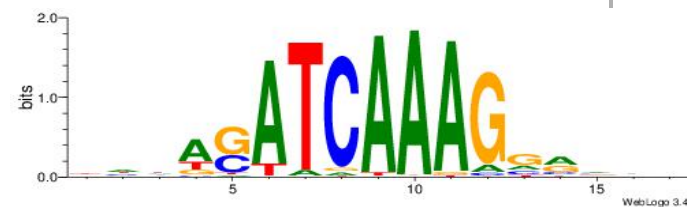
Original motif

Reverse complement motif

Consensus sequence: DDDYCCTTTGATSTDDV



Consensus sequence: BDDASATCAAAGGMDDD

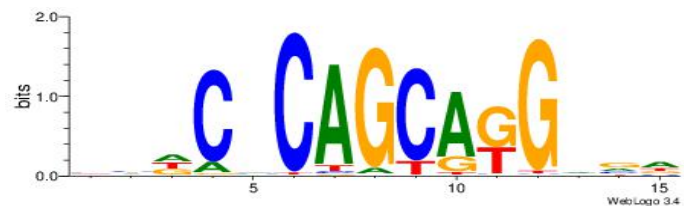


Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 6
Similarity score: 0.0136526

Alignment:
HHDCVCAGCAKGVVD
--KCAGAG-----

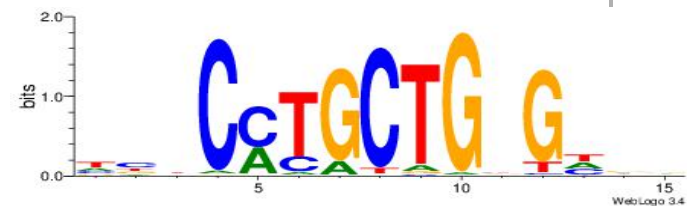
Original motif

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

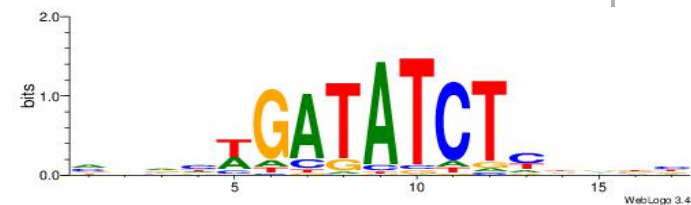
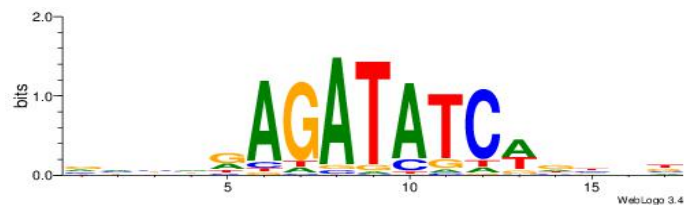
-----RARAT-----

Original motif

Consensus sequence: VVBHRAGATATCWDHBB

Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV

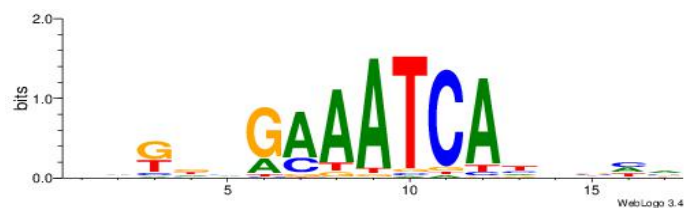


Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00279496

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

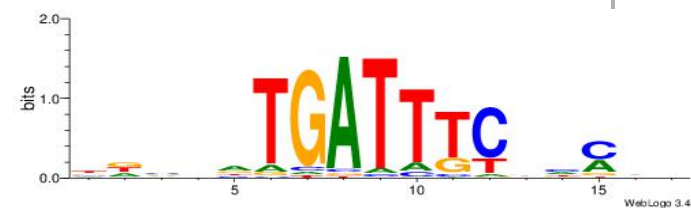
Original motif

Consensus sequence: DDKDHGAAATCAHHBH



Reverse complement motif

Consensus sequence: BDBDHTGATTTCDDHYD



Motif ID: [UP00032](#)

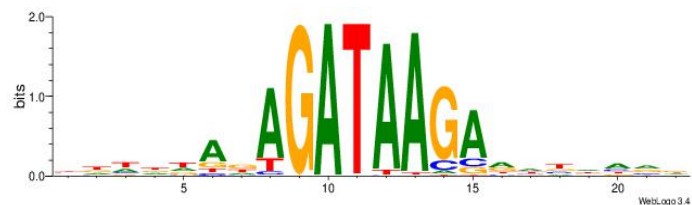
Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 12
 Number of overlap: 5
 Similarity score: 0.00967655

Alignment:

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

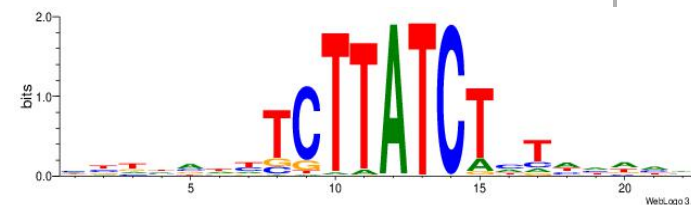
Original motif

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

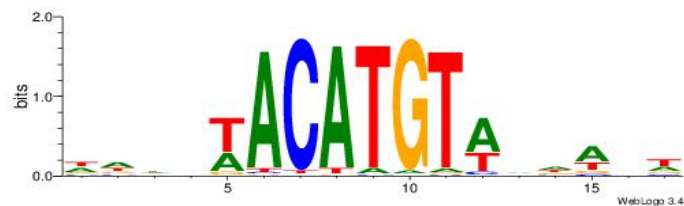
Alignment:

DDDHWACATGTWHDABW

-----ATKTM-----

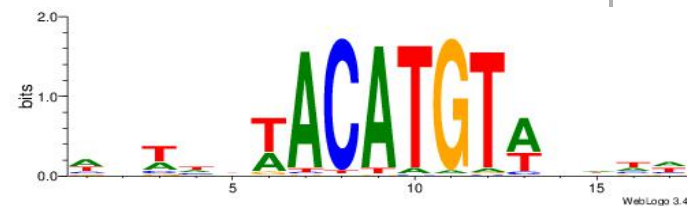
Original motif

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

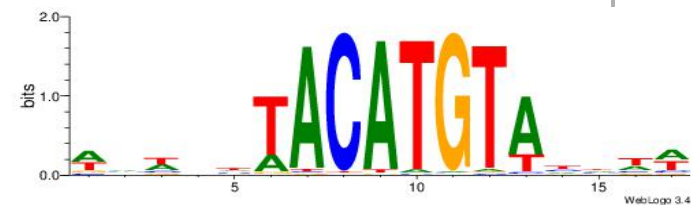
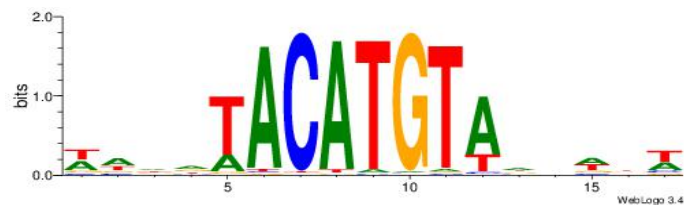
-----ATKTM-----

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WVWDDTACATGTADDW

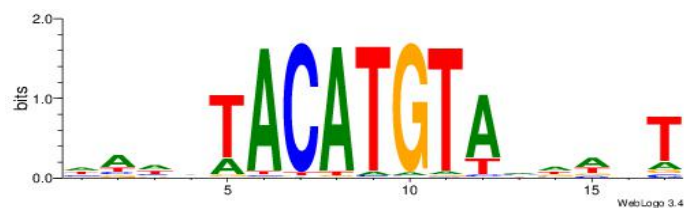


Motif ID: [UP00150](#)
 Motif name: Irx6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.0120601

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

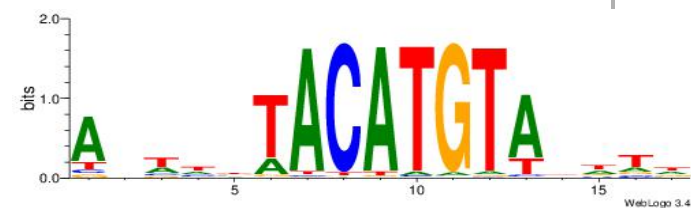
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



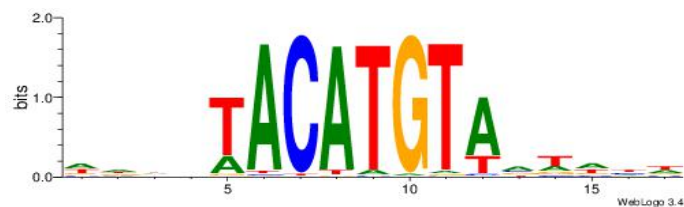
Motif ID: [UP00223](#)
 Motif name: Irx3_2226.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.0124884

Alignment:

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

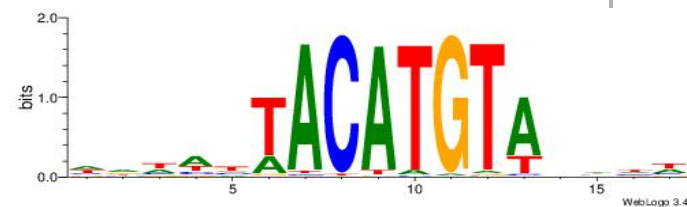
Original motif

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

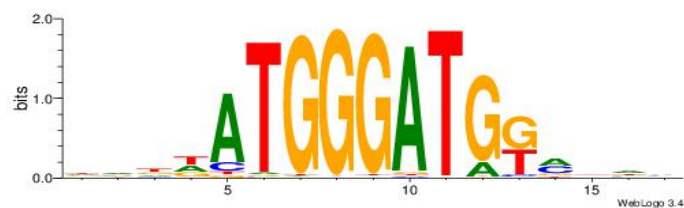
Number of overlap: 5
Similarity score: 0.0150044

Alignment:

DVDDATGGGATGKMDDV
-----ATKTM----

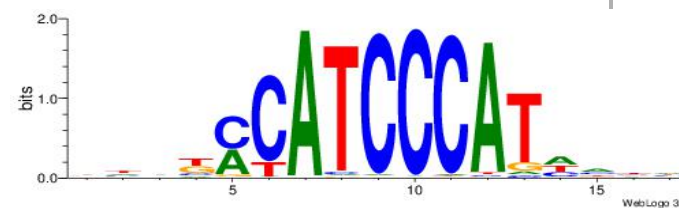
Original motif

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

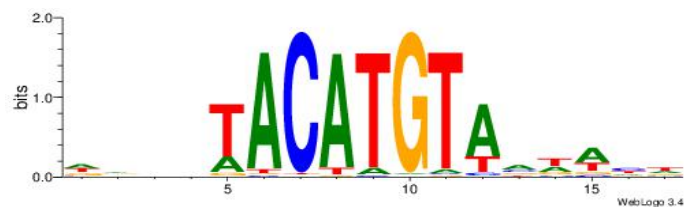
Alignment:

DDDDTACATGTAVWWHD
-----ATKTM-----

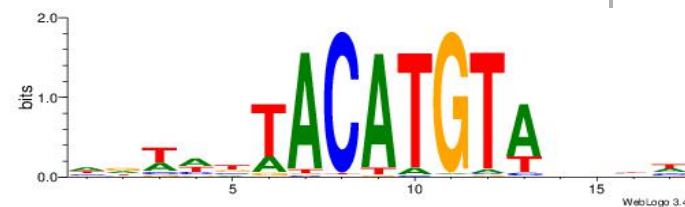
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVVWHHD



Consensus sequence: DDWWBTACATGTADDDD



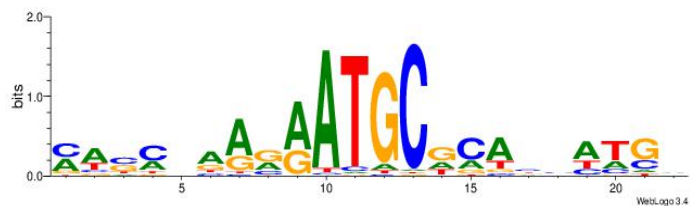
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 5
Similarity score: 0.0166075

Alignment:

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

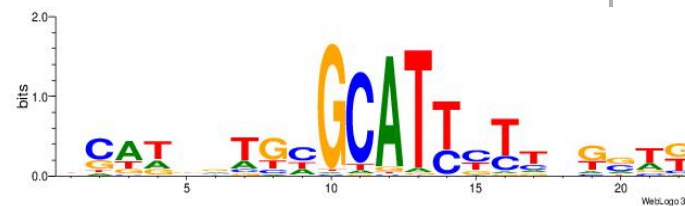
Original motif

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

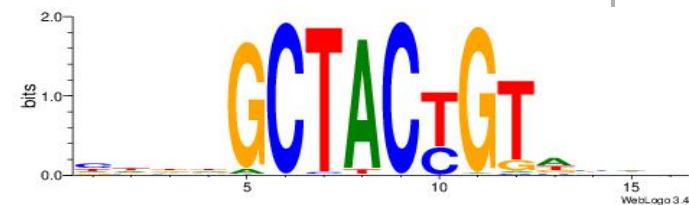
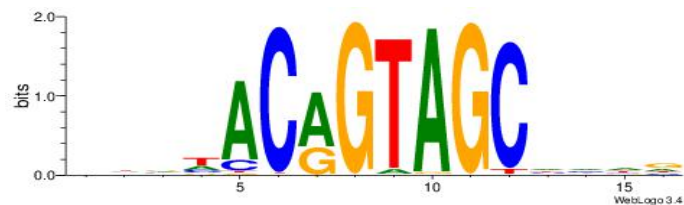
-----GCKGCTG-----

Original motif

Consensus sequence: HHVHACRGTAGCHHHD

Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH

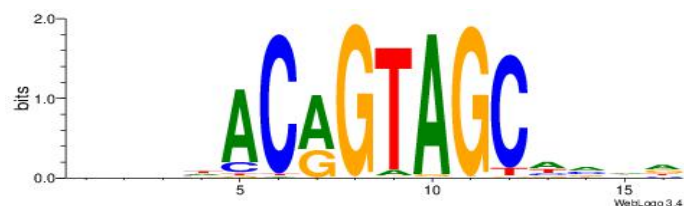


Motif ID: [UP00027](#)
 Motif name: Osr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00108105

Alignment:
 DHBHGCTACKGTHDHH
 ----GCKGCTG-----

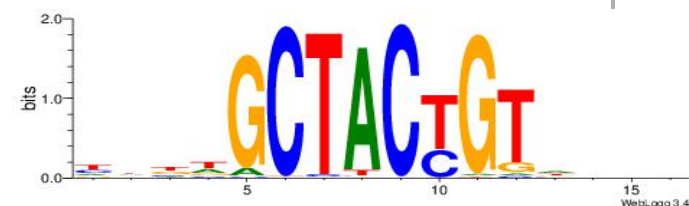
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00099](#)

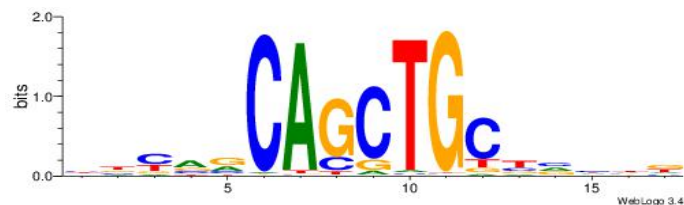
Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.00905497

Alignment:

BBYVVCAGCTGCBVHHD
 -----GCKGCGY---

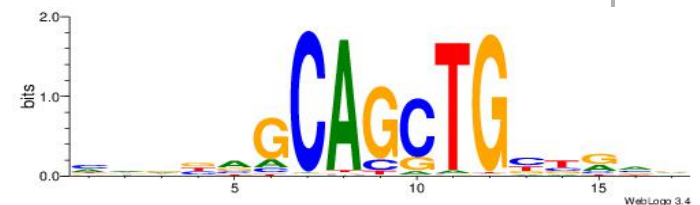
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 7

Similarity score: 0.0111061

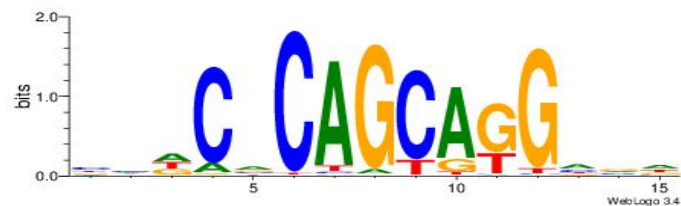
Alignment:

BHDCVCAGCAGGHVD

-----CMGCRGC----

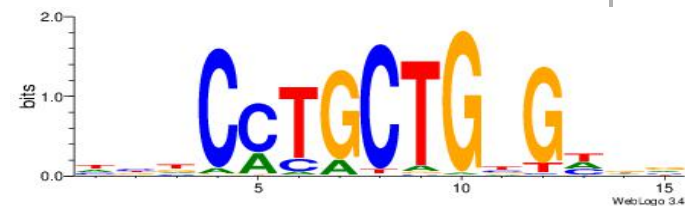
Original motif

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

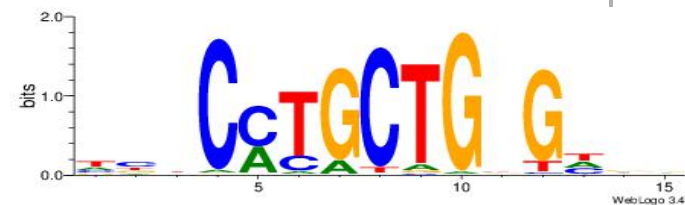
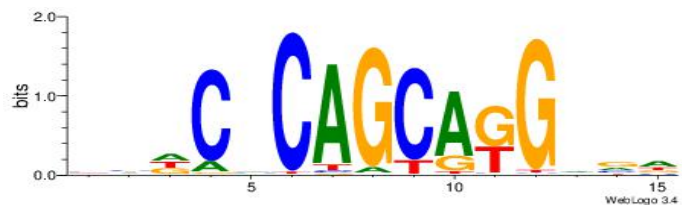
-----CMGCRGC----

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

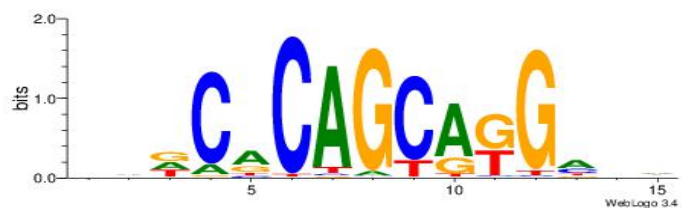
Consensus sequence: DVBCYTGCTGBGDDD



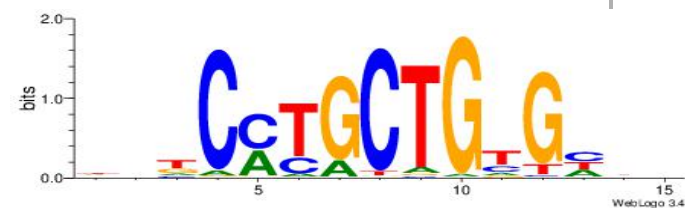
Motif ID: [UP00006](#)
 Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0137402

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

Original motif
 Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif
 Consensus sequence: DVHCYTGCTGTGHDH



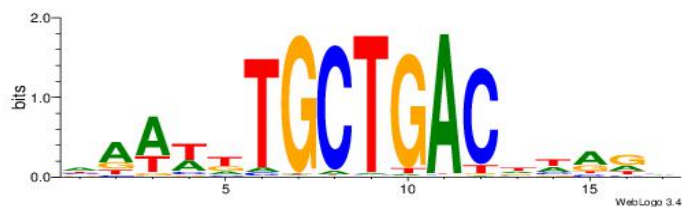
Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 7
 Similarity score: 0.0253076

Alignment:

DMTWDGTCAGCADWTTH
 -----CMGCRGC-----

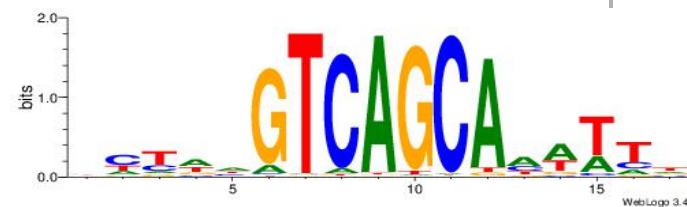
Original motif

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

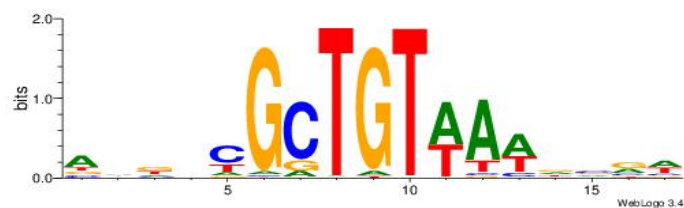
Number of overlap: 7
Similarity score: 0.0292668

Alignment:

WVHWTWACAGCGBHBT
-----CMGCRGC--

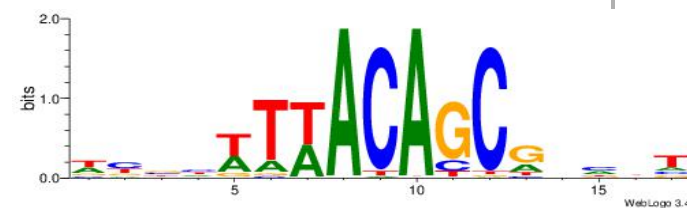
Original motif

Consensus sequence: AVDVCGCTGTWAWDVVW



Reverse complement motif

Consensus sequence: WVHWTWACAGCGBHBT



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

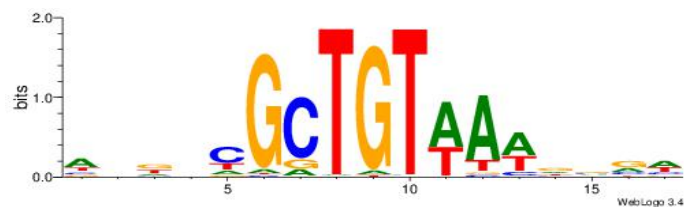
Alignment:

WVHWTWACAGCGHHVT
-----CMGCRGC--

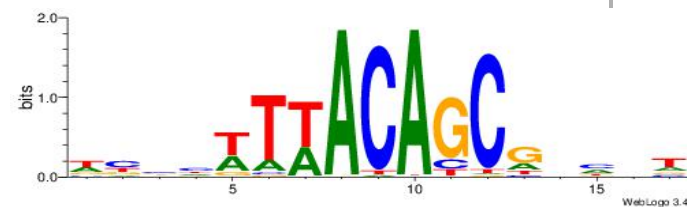
Original motif

Reverse complement motif

Consensus sequence: AVDHCGCTGTWAWDVVW



Consensus sequence: WVVHWTWACAGCGHHVT



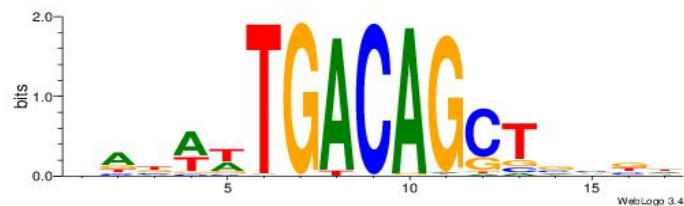
Motif ID: [UP00122](#)
Motif name: Tgif1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 7
Similarity score: 0.0332976

Alignment:

DABWWTGACAGCTVVBD
-----CMGCRGC---

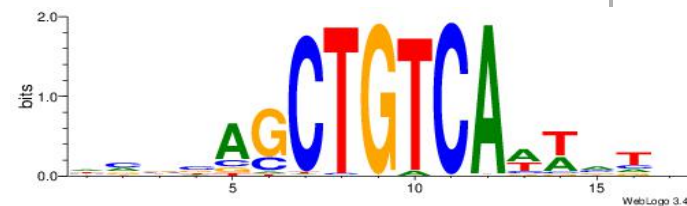
Original motif

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

Alignment:

DHHDGGGCGRGGKHBH

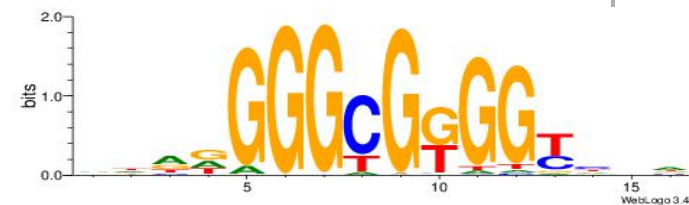
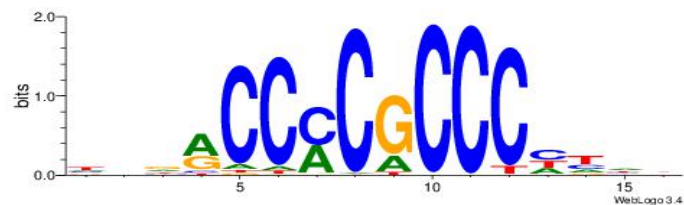
---GGGGMGGG-----

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

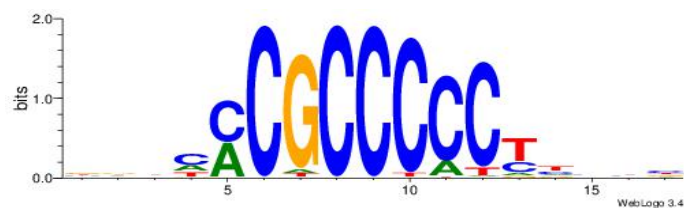


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00490878

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

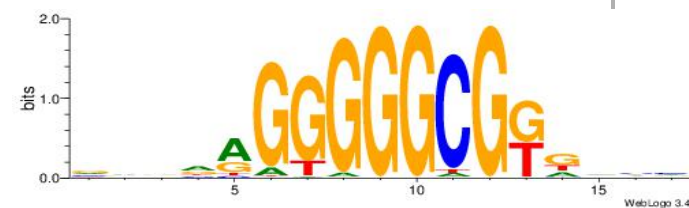
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00007](#)

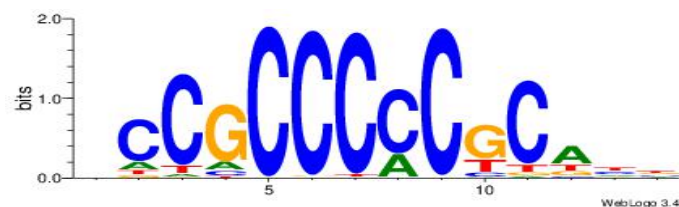
Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0101441

Alignment:

HCCGCCCCCGCAHB
 CCCRCCCC-----

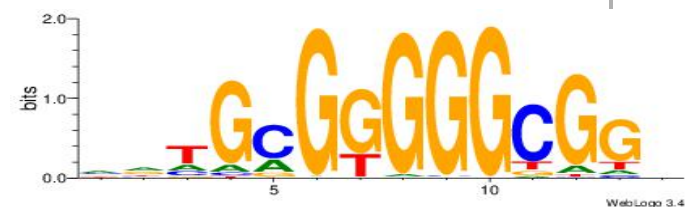
Original motif

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

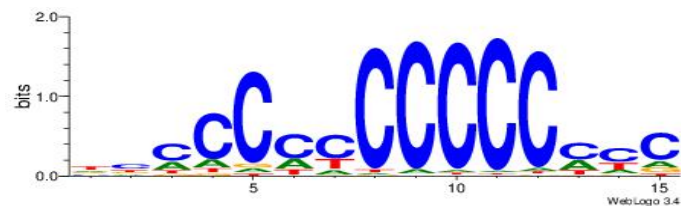
Alignment:

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

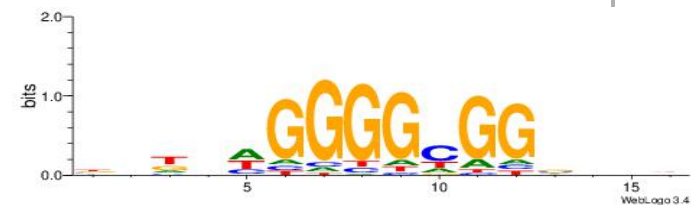
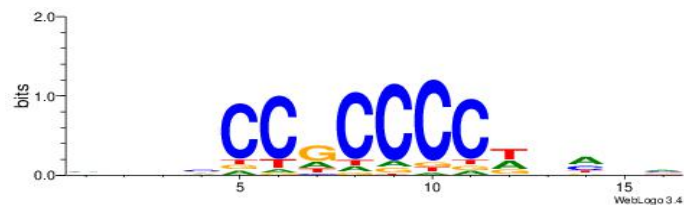
---CCCRCCCC-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



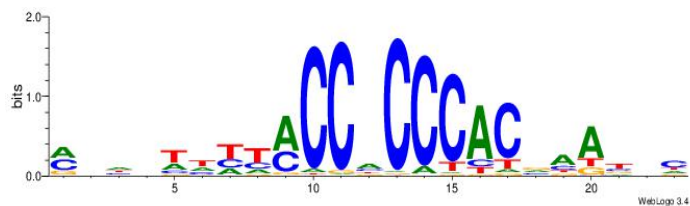
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0252184

Alignment:

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

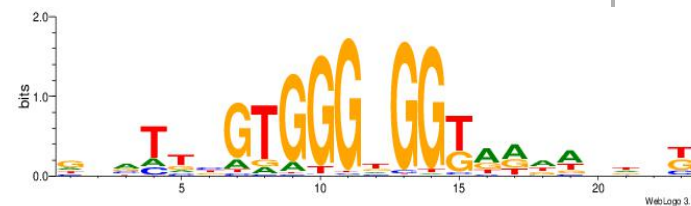
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



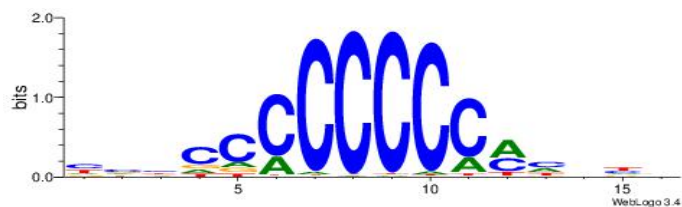
Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0258528

Alignment:

HVBCCCCCCCCMHHHB
 --CCCRCCCC-----

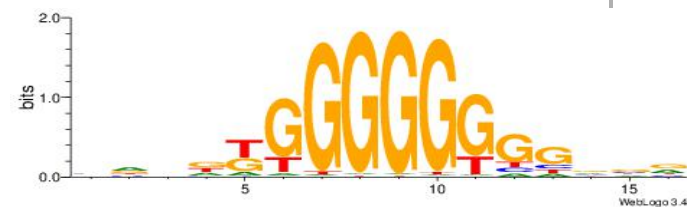
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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

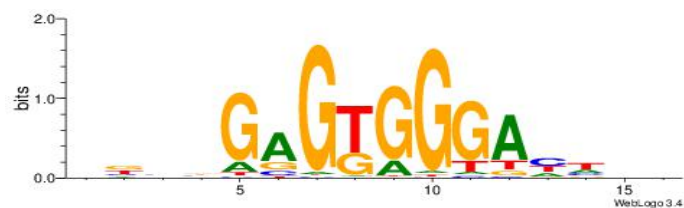
Number of overlap: 8
Similarity score: 0.0318239

Alignment:

BHHDTCCTCACTCBDBV
-----CCCRCCCC---

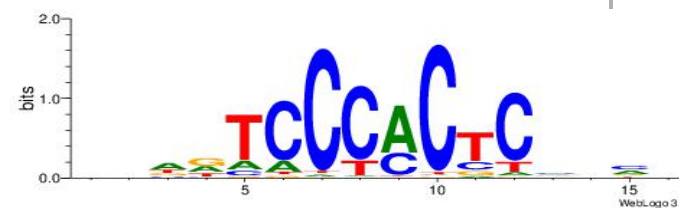
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



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

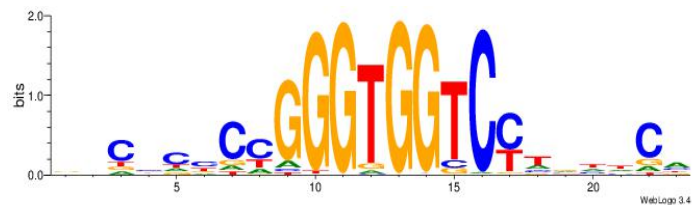
Alignment:

HGDHVVHKGACCAACCGGBGBGDB
-----CCCRCCCC-----

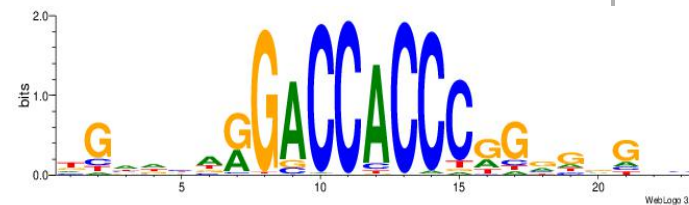
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



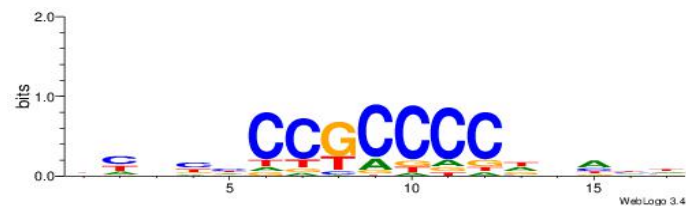
Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0336185

Alignment:

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

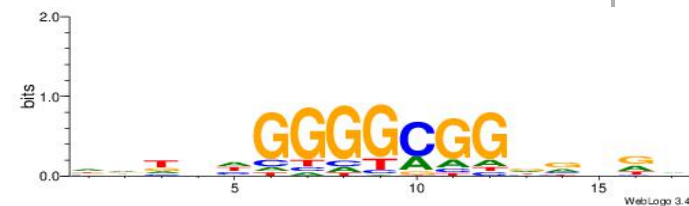
Original motif

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:

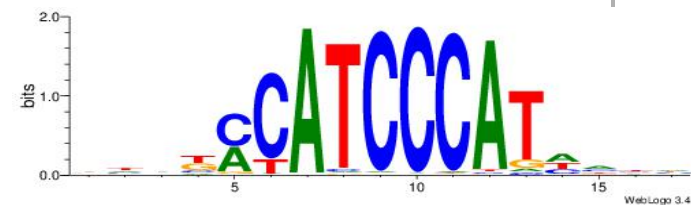
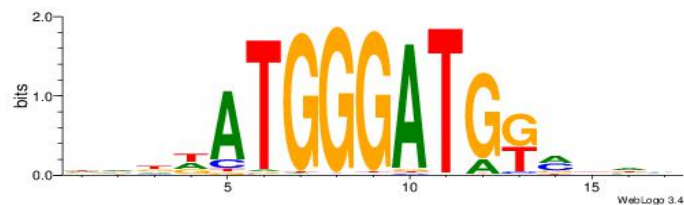
```
DVDDATGGGATGKMDDV
-----CTGGGA-----
```

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

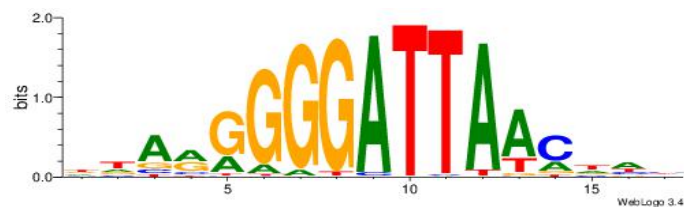


Motif ID: [UP00216](#)
 Motif name: Obox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.000600574

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

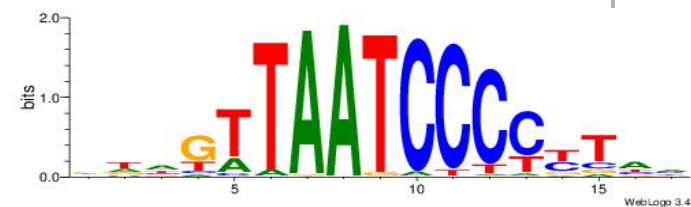
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



Motif ID: [UP00229](#)

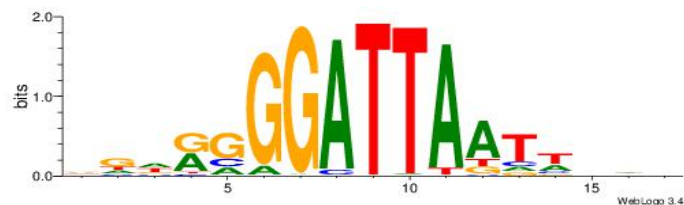
Motif name: Otx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 6
 Similarity score: 0.0140775

Alignment:

VHHWATTAATCCCMDHH
 -----TCCCAG--

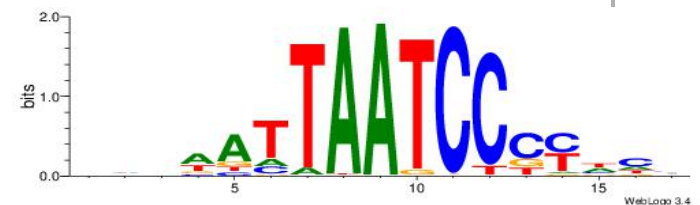
Original motif

Consensus sequence: DDRGGGATTAATWHHB



Reverse complement motif

Consensus sequence: VHHWATTAATCCCMDHH

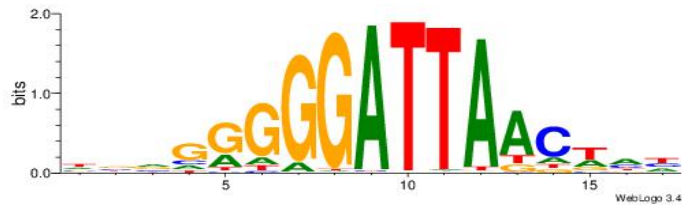


Motif ID: [UP00160](#)
 Motif name: Obox3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6

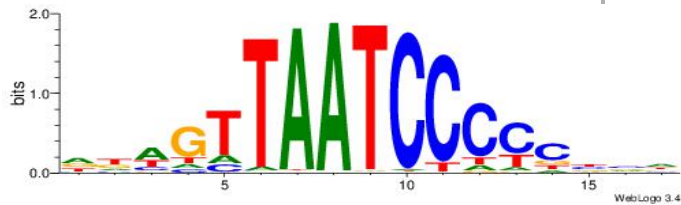
Similarity score: 0.0142192

Alignment:
HHWGTTAATCCCCBBH
-----TCCCAG----

Original motif
Consensus sequence: HBVGGGGGATTAACWHH



Reverse complement motif
Consensus sequence: HHWGTTAATCCCCBBH

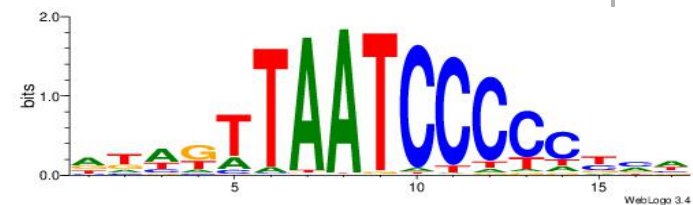
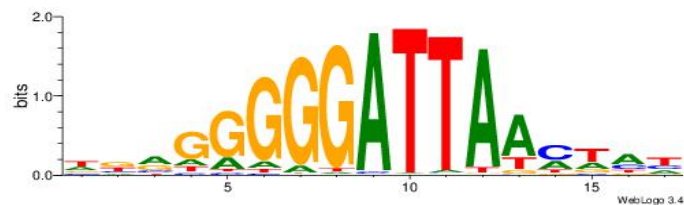


Motif ID: [UP00239](#)
Motif name: Obox2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 6
Similarity score: 0.0184594

Alignment:
HTARTTAATCCCCCKBD
-----TCCCAG----

Original motif
Consensus sequence: DBRGGGGGATTAAMTAH

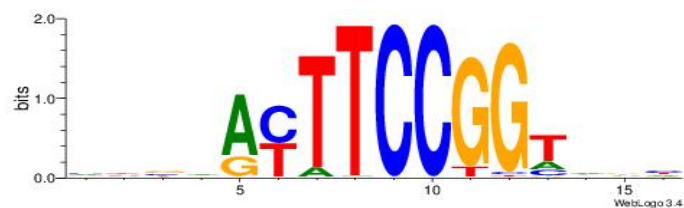
Reverse complement motif
Consensus sequence: HTARTTAATCCCCCKBD



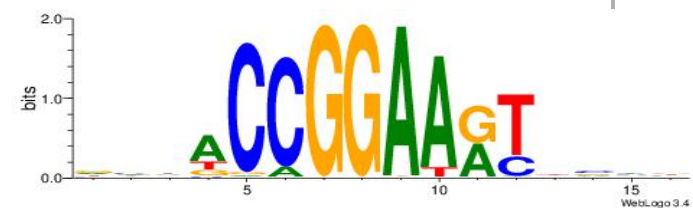
Motif ID: [UP00416](#)
 Motif name: Fli1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.018604

Alignment:
 DHDACCGGAAKTBBVV
 ----CTGGGA-----

Original motif
 Consensus sequence: VBBVAYTTCCGGTDDH



Reverse complement motif
 Consensus sequence: DHDACCGGAAKTBBVV



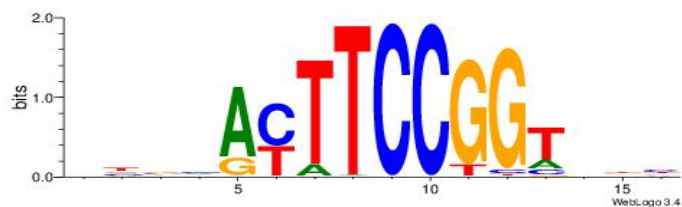
Motif ID: [UP00411](#)
 Motif name: Erg
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0196433

Alignment:

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

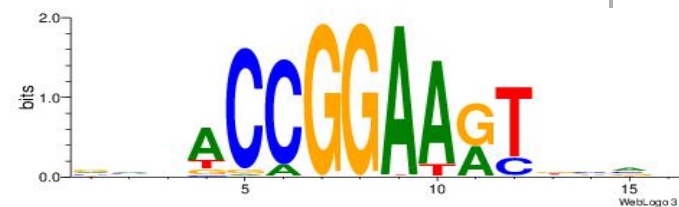
Original motif

Consensus sequence: VBBVAYTTCCGGTDDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



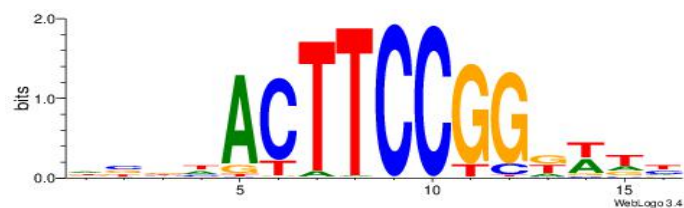
Motif ID: [UP00413](#)
 Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

Number of overlap: 6
Similarity score: 0.0196806

Alignment:
HAWYCCGGAAGTHBBD
-----CTGGGA-----

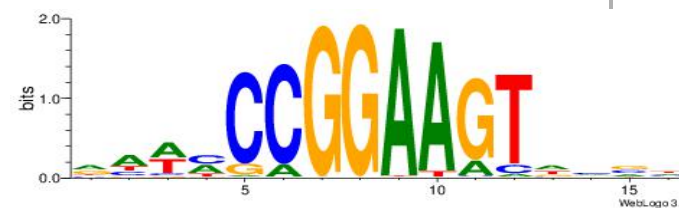
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



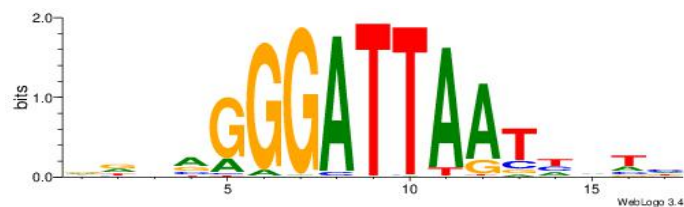
Motif ID: [UP00143](#)
Motif name: Dobox5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 6
Similarity score: 0.0199632

Alignment:
DDHVGGGATTAATHDTH
--CTGGGA-----

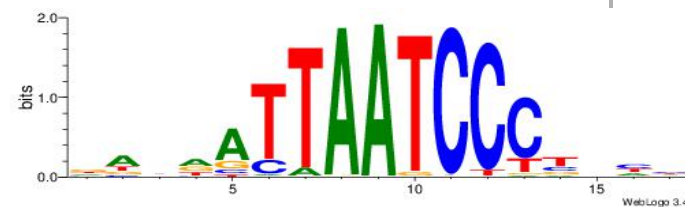
Original motif

Reverse complement motif

Consensus sequence: DDHVGGGATTAATHDTH



Consensus sequence: DADHATTAATCCCBHHH



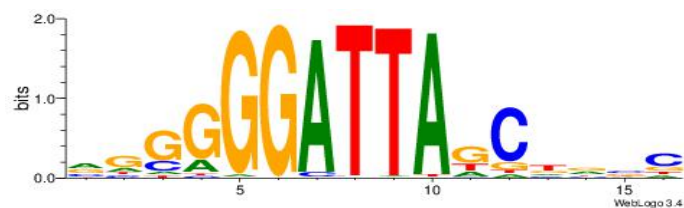
Motif ID: [UP00265](#)
Motif name: Pitx3
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0210625

Alignment:

GBHDGCTAATCCCCCB
-----TCCCAG--

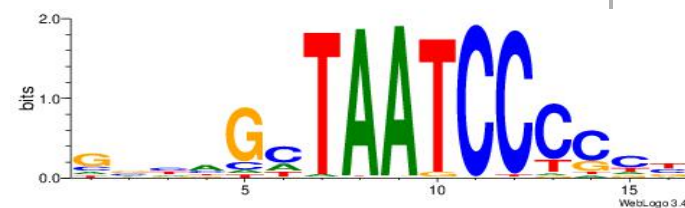
Original motif

Consensus sequence: VGGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



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

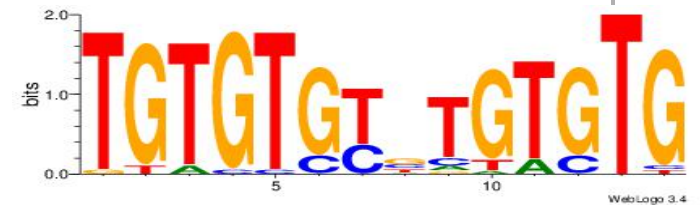
Original motif

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:

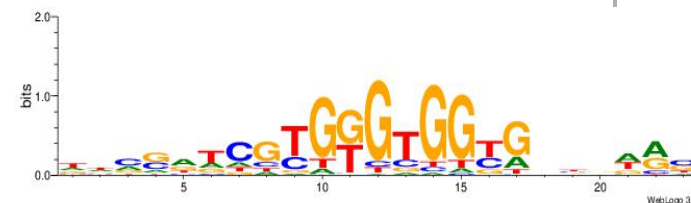
```
VYWVVHCRCCACMCACGAHSBHH
-CACACAVRCACACA-----
```

Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



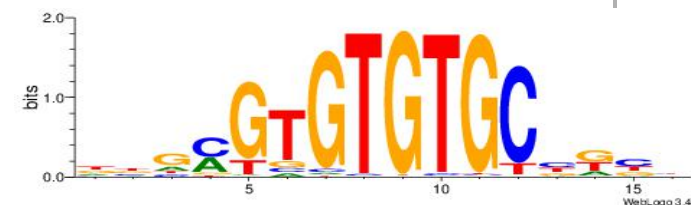
Alignment:

```
HBGYGTGTGTGCVRVD
-TGTGTGKVTGTGTG-
```

Consensus sequence: DVMVGCACACKCVH



Consensus sequence: HBGYGTGTGTGCVRVD



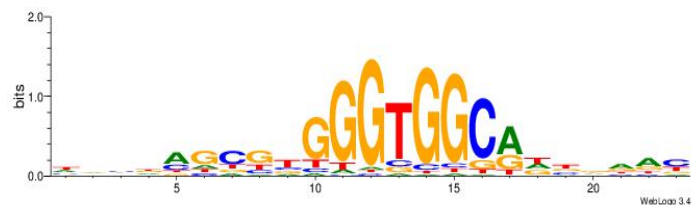
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 14
 Similarity score: 0.0503392

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 TGTGTGKVTGTGTG-----

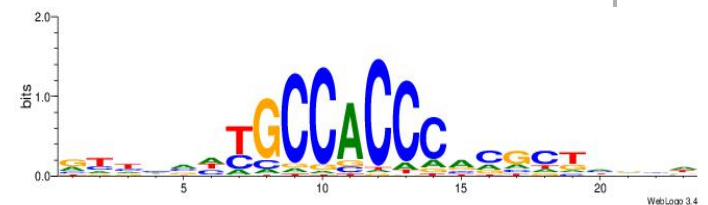
Original motif

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: Backward
 Position number: 1
 Number of overlap: 14

Similarity score: 0.0506792

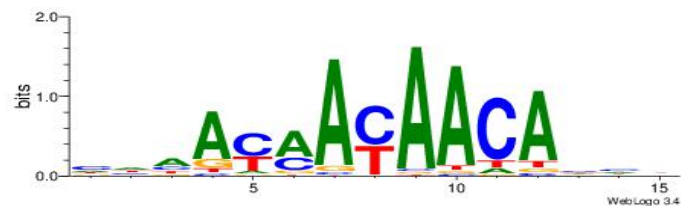
Alignment:

HDDTGTTKTTKTHHD

-TGTGTGKVTGTGTG

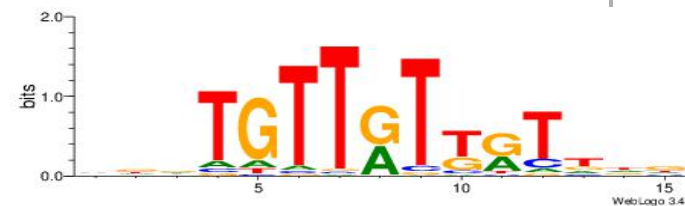
Original motif

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

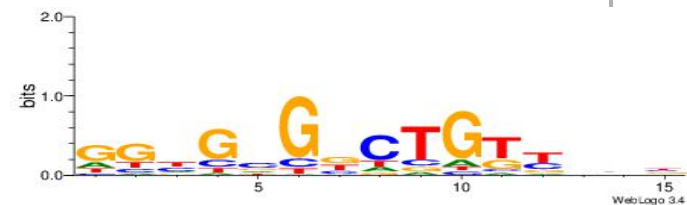
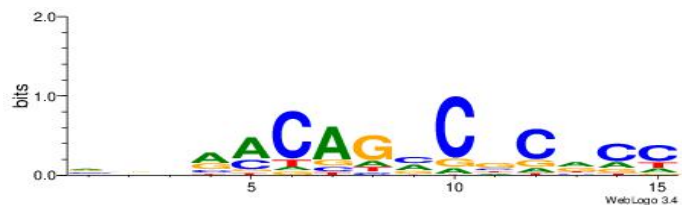
-CACACAVRCACACA

Original motif

Consensus sequence: VVVRACAGVCBCDCC

Reverse complement motif

Consensus sequence: GGDGBGVCTGTVVB



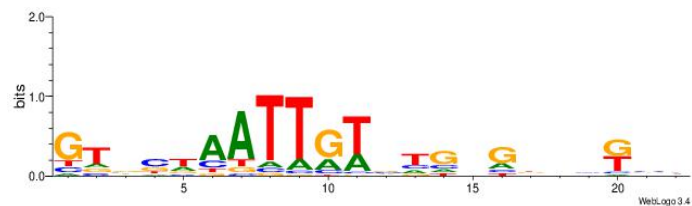
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0523703

Alignment:

VVYDDDCHCAVACAATTDBVAC
 CACACAVRCACACA-----

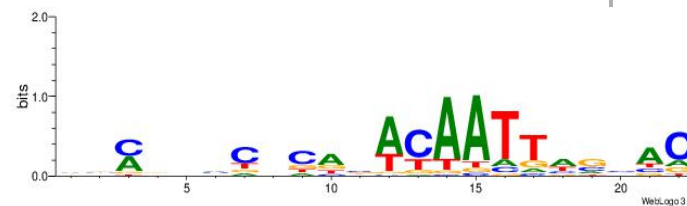
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



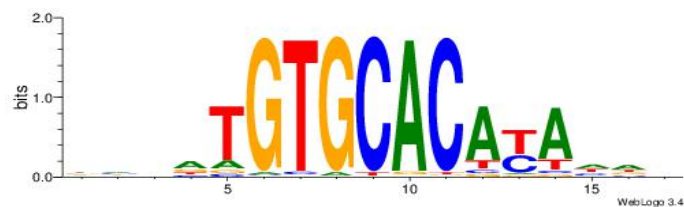
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0557355

Alignment:

DHVDTGTGCACAYAHDH
 CACACAVRCACACA---

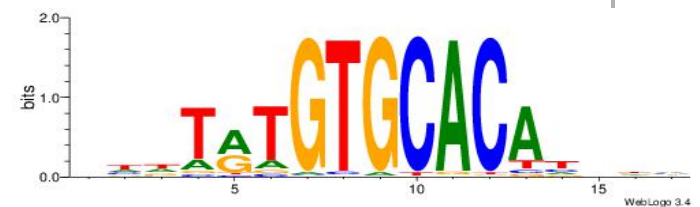
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



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: Forward
 Position number: 2

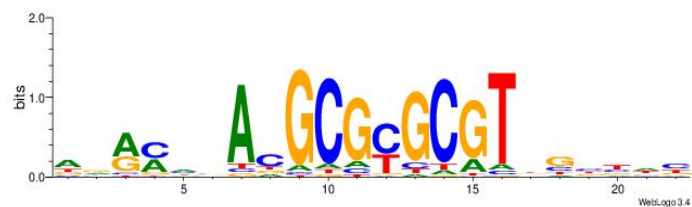
Number of overlap: 14
Similarity score: 0.0578572

Alignment:

DDRMHBACGCGYGCGTDGBBDB
-CACACAVRCACACA-----

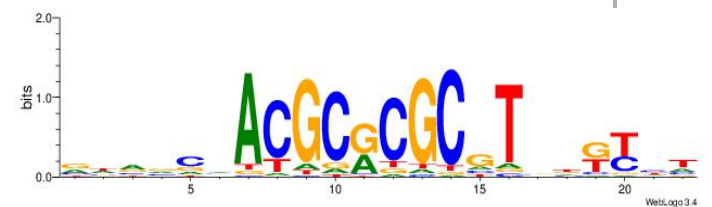
Original motif

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

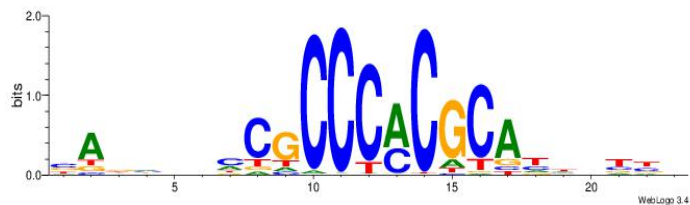
Alignment:

VVVDHHTGCGYGGGCGDHVHHTB
-----TGTGTGKVTGTGTG---

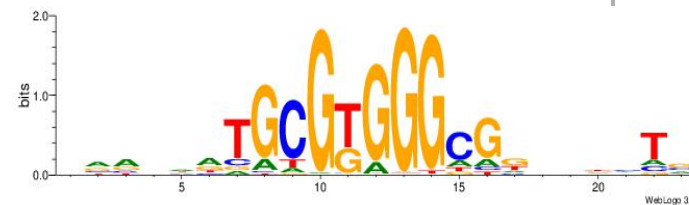
Original motif

Reverse complement motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB



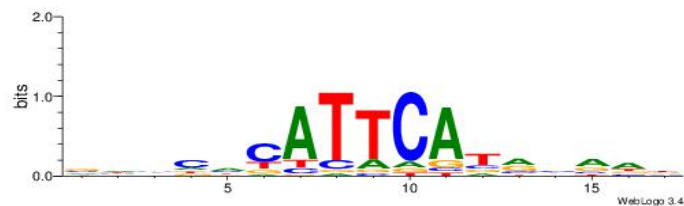
Motif ID: [UP00014](#)
Motif name: Sox17_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0581238

Alignment:

DDBDKATGAATGHDBHV
--TGTGTGKVTGTGTG--

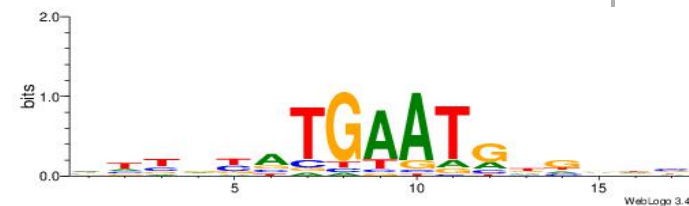
Original motif

Consensus sequence: VHBHHCATTCATRHVDD



Reverse complement motif

Consensus sequence: DDBDKATGAATGHDBHV



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

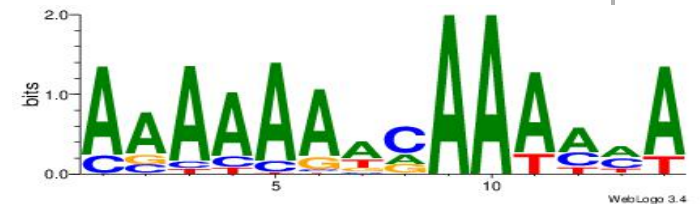
Original motif

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:

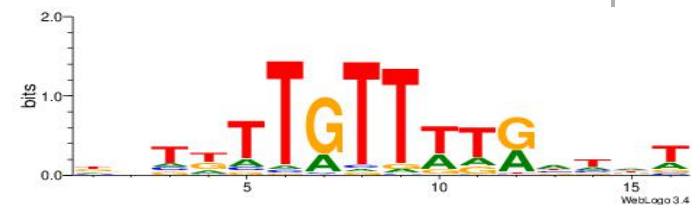
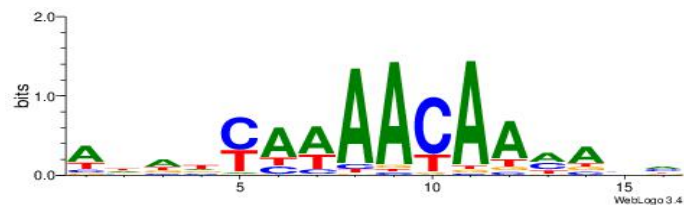
```
HDTYTTGTTWTKDDDT
TKKTTTGTTTTTTT--
```

Original motif

Consensus sequence: ADDDYAWAACAAMAHH

Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT

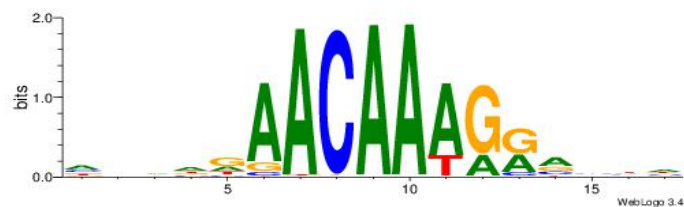


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0368361

Alignment:
 HBDDDAACAAAGRVBHH
 AAAAAACAAARRA---

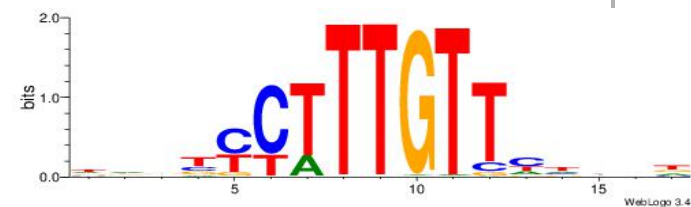
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



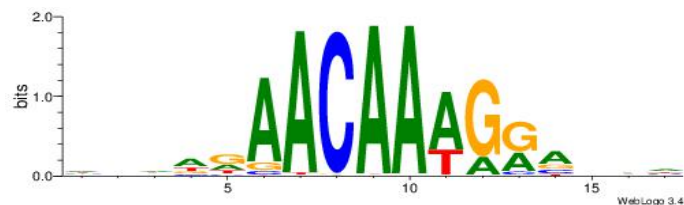
Motif ID: [UP00030](#)

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---

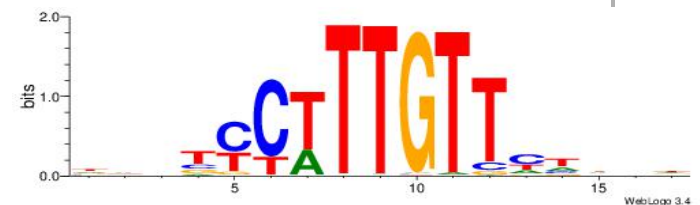
Original motif

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

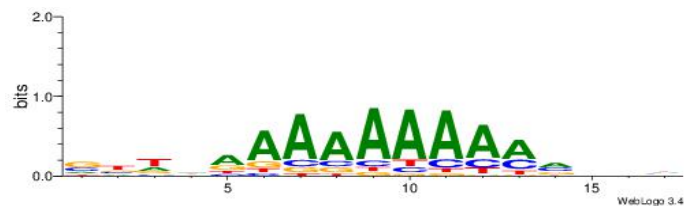
Similarity score: 0.038882

Alignment:

HHVBYTTTTTTTDDVV
-TKKTTTGTTTTTT--

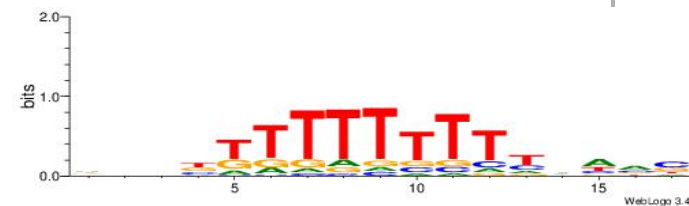
Original motif

Consensus sequence: VBDDAAAAAAMVBHH



Reverse complement motif

Consensus sequence: HHVBYTTTTTTTDDVV



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:

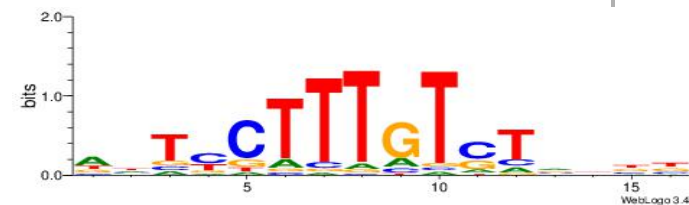
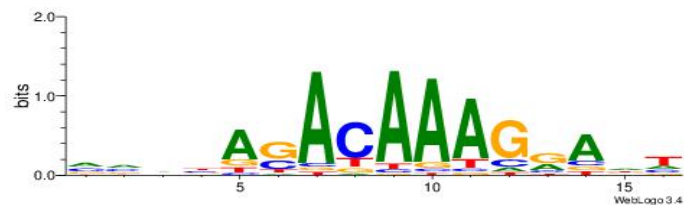
HDTMCTTTGTSTVDBB
AAAAAACAAARRA--

Original motif

Consensus sequence: VVDBASACAAAGRADH

Reverse complement motif

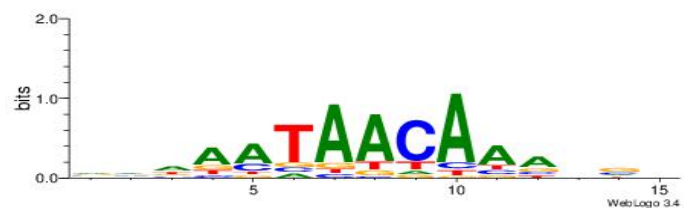
Consensus sequence: HDTMCTTTGTSTVDBB



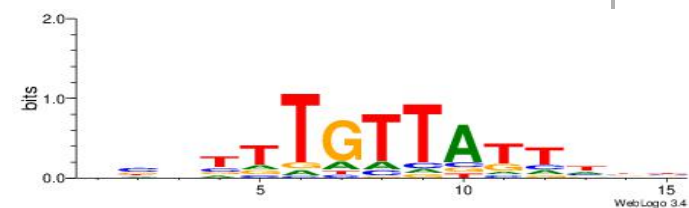
Motif ID: [UP00073](#)
 Motif name: Foxa2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0402844

Alignment:
 VVDAATAACAAAVVB
 -AAAAAACAARRA

Original motif
 Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif
 Consensus sequence: BVVTTTGGTATTDBB



Motif ID: [UP00034](#)

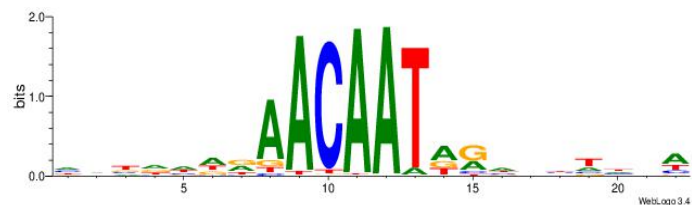
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 14
 Similarity score: 0.0409353

Alignment:

HHBDHDDAACAATDRHHHHHBW
 --AAAAAAACAAARRA-----

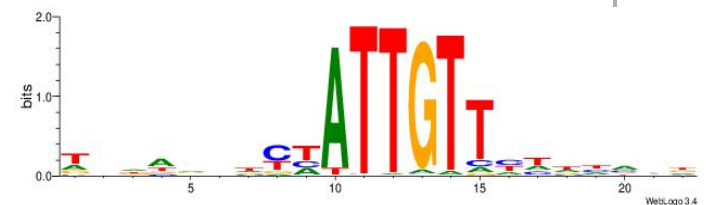
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



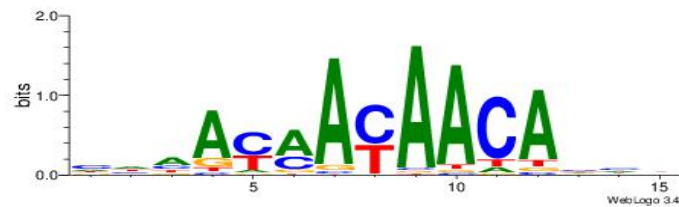
Motif ID: [UP00025](#)
 Motif name: Foxk1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0416172

Alignment:

```
HHHAYAAAYAACAHHH  
-TKKTTTGT TTTTTT
```

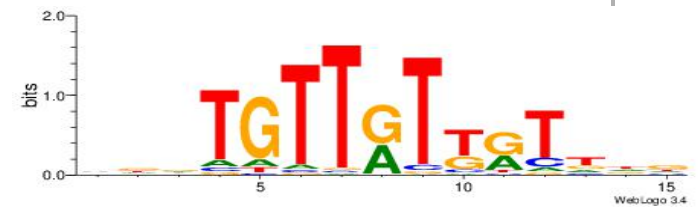
Original motif

Consensus sequence: HHHAYAAAYAACAHHH



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:

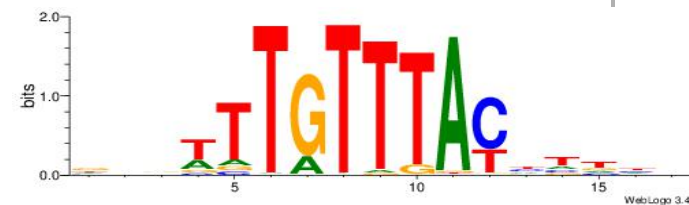
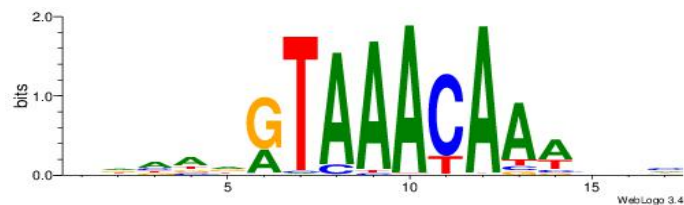
```
HDHADGTAAACAAAVVH  
---AAAAAAACAAARRA
```

Original motif

Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGT TTTACDTHDH

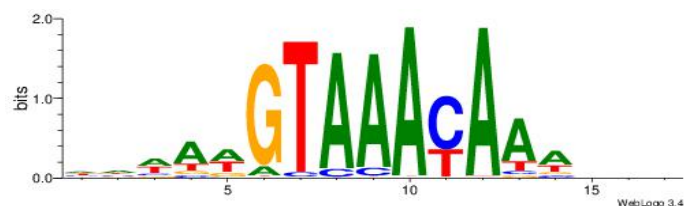


Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0439168

Alignment:
 HHWAWGTAAAYAAVDB
 ---AAAAAACAAARRA

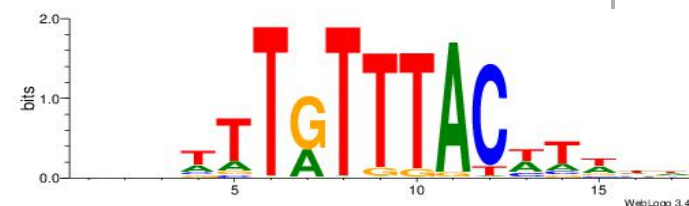
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

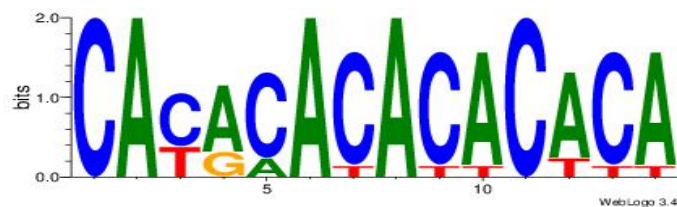
Consensus sequence: BDVTTTCTTTACWTWHH



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

Original motif

Consensus sequence: CAYACACACACACA



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

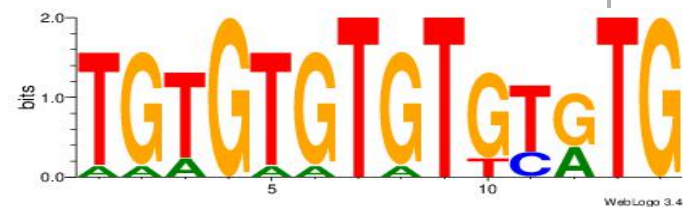
–CAYACACACACACA–

Original motif

Consensus sequence: DVMVGCACACACKCVH

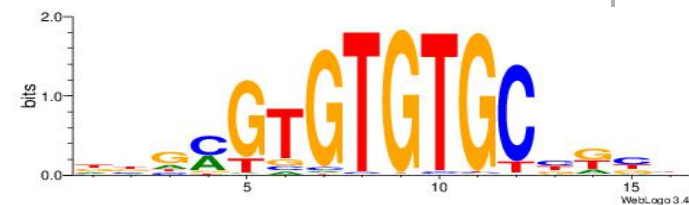
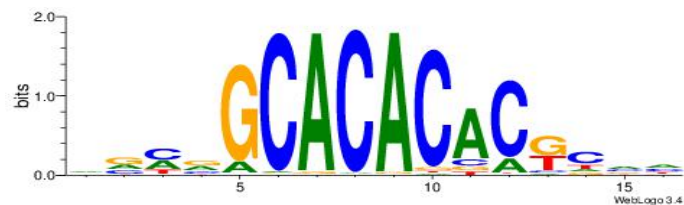
Reverse complement motif

Consensus sequence: TGTGTGTGTGKTG



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

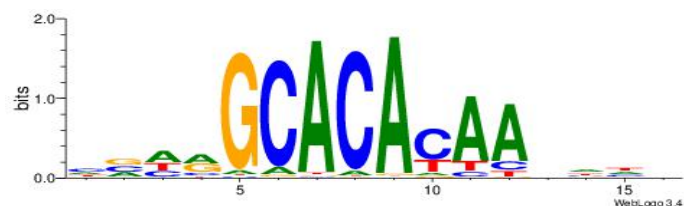


Motif ID: [UP00026](#)
 Motif name: Zscan4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0372612

Alignment:
 BHHHTTGTGTGCKHVD
 -TGTGTGTGTGKTG-

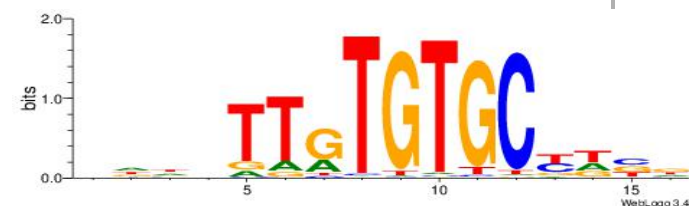
Original motif

Consensus sequence: HVHRGCACACAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00000](#)

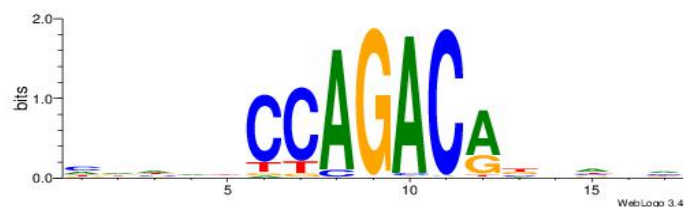
Motif name: Smad3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0446373

Alignment:

HVHBVTGTCTGGDDHDD
 ---TGTGTGTGTGKTG

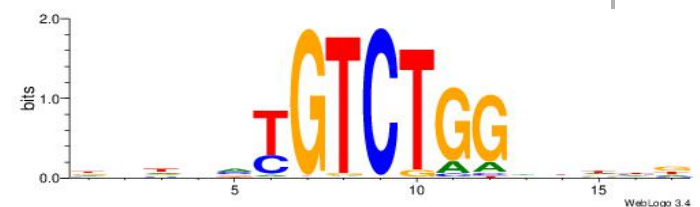
Original motif

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

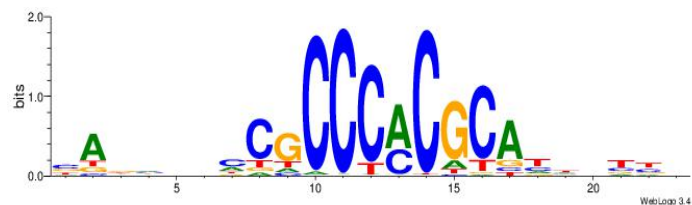
Similarity score: 0.0457169

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
---CAYACACACACA-----

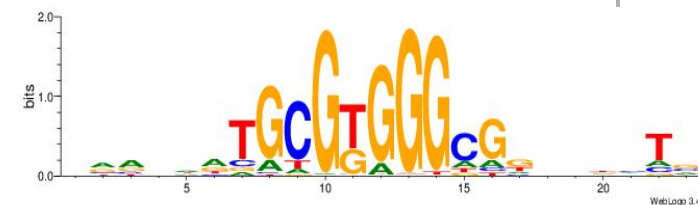
Original motif

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:

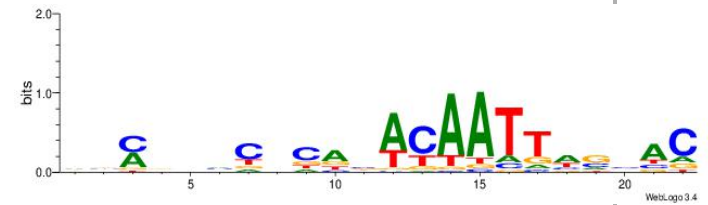
GTVBDAATTGTVTGHGDDHKVB
CAYACACACACACA-----

Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB

Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Alignment:

```
HDDTGTTKTTKTHHD
-TGTGTGTGTGKTG
```

Motif ID: [UP00041](#)

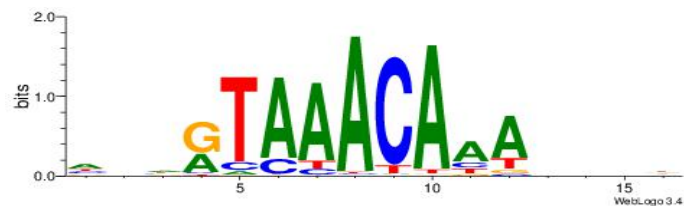
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0488633

Alignment:

HDHRTAAACAAHDDD
 CAYACACACACACA--

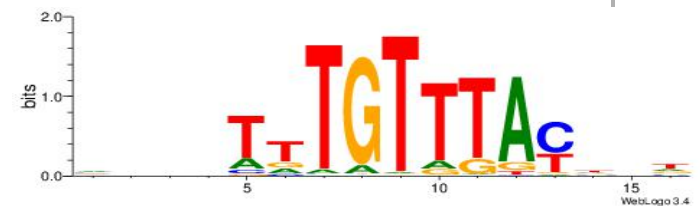
Original motif

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

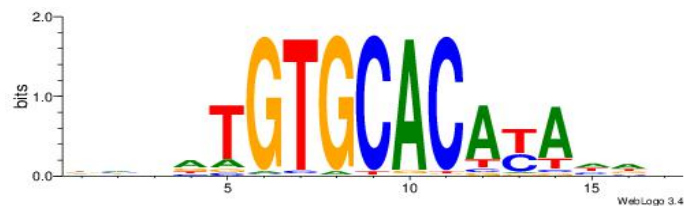
Alignment:

DHVDTGTGCACAYAHDH

--CAYACACACACACA--

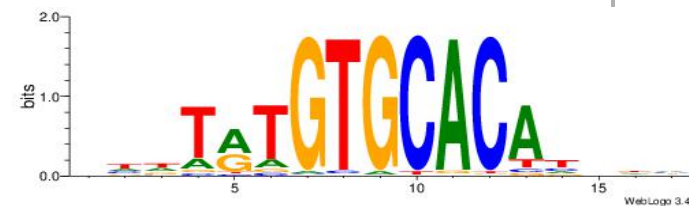
Original motif

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

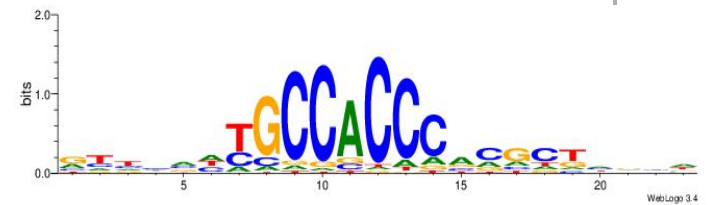
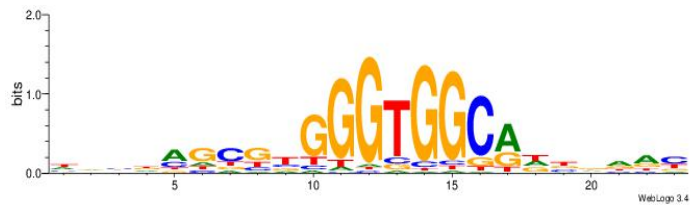
TGTGTGTGTGKTG-----

Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif

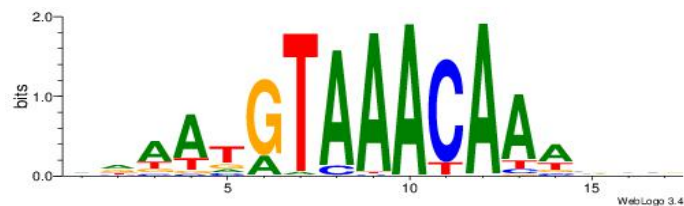
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



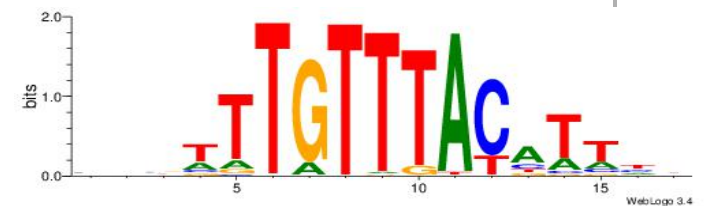
Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0518949

Alignment:
 DDAATGTAAACAAVVB
 --CAYACACACACA-

Original motif
 Consensus sequence: DDAATGTAAACAAVVB



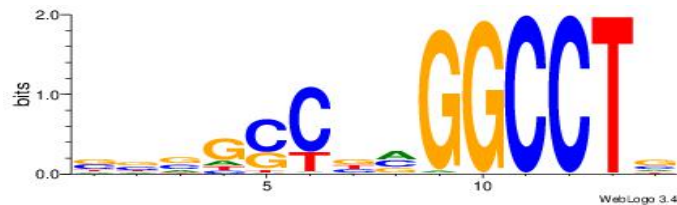
Reverse complement motif
 Consensus sequence: BBVTTTGTTCATTTDD



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

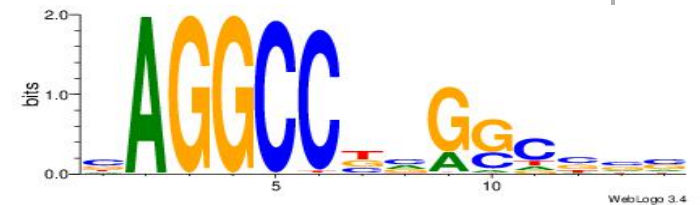
Original motif

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

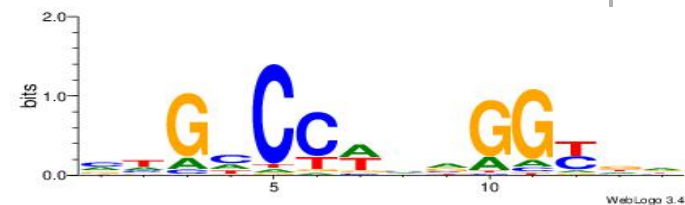
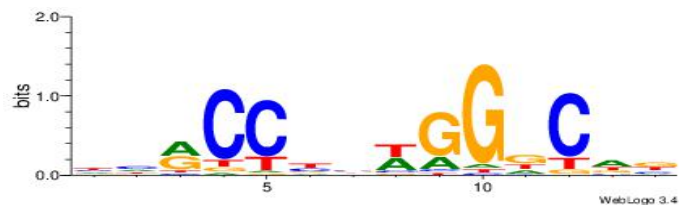
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



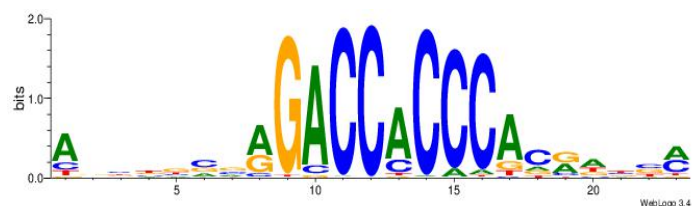
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0603516

Alignment:

ABBBBVVRGACCACCCACRDBBM
 BBVGCCBVGGCCTV-----

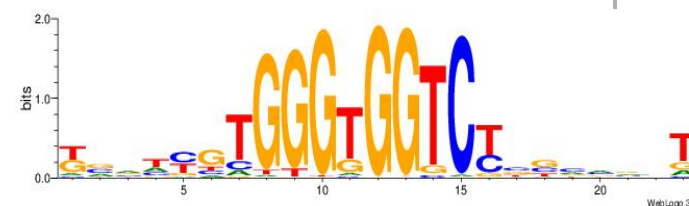
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

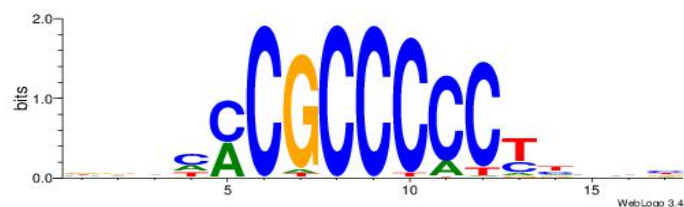
Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0604694

Alignment:

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

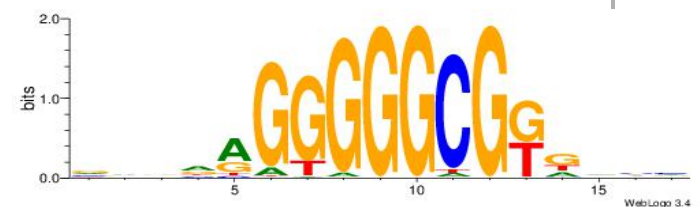
Original motif

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

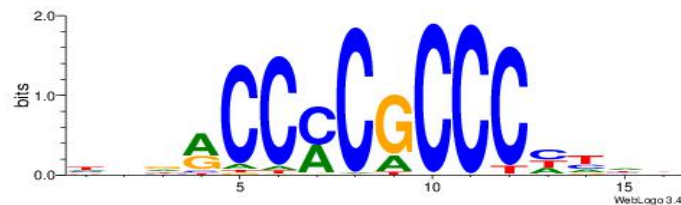
Alignment:

HBDRCMCGCCCHHD

BBVGCCBVGGCTV--

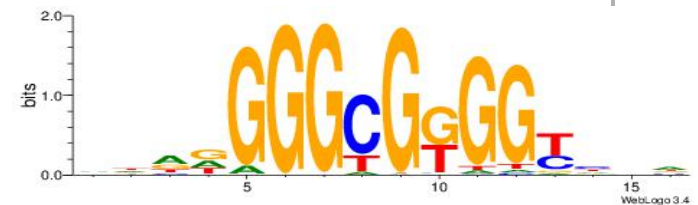
Original motif

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

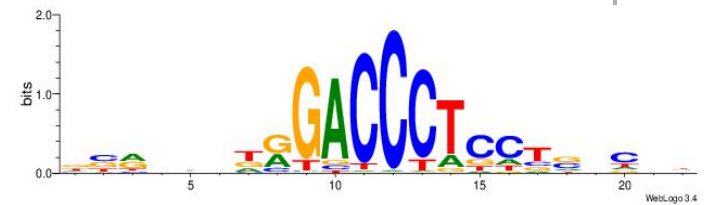
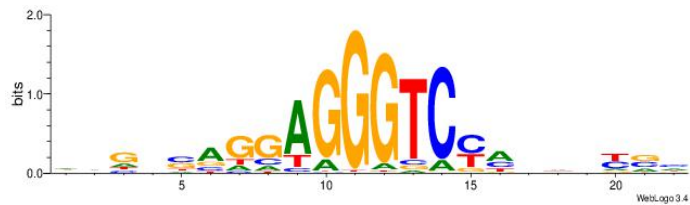
-----VAGGCCBBGGCVBB

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

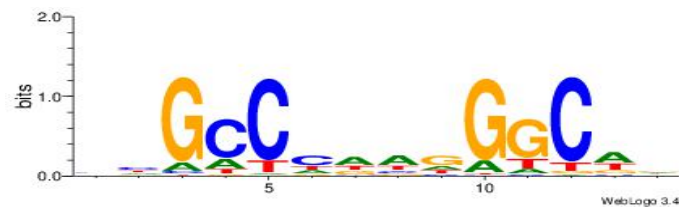
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



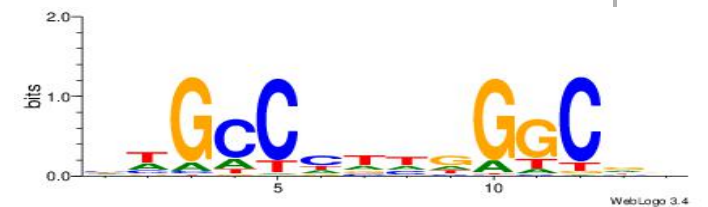
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0608063

Alignment:
 HWGCCCTDGGGCDB
 VAGGCCBBGGCVBB

Original motif
 Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif
 Consensus sequence: HWGCCCTDGGGCDB

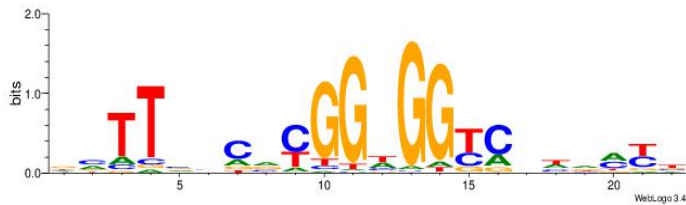


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary

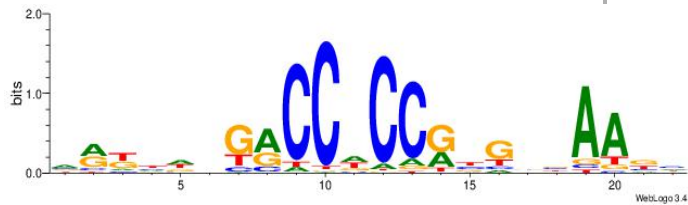
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0615001

Alignment:
DVTTVVCVYGGHGGYCHHDMYB
----BBVGCCBVGGCCTV----

Original motif
Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif
Consensus sequence: VMYDHDGMCCHCCKBGVVAHV



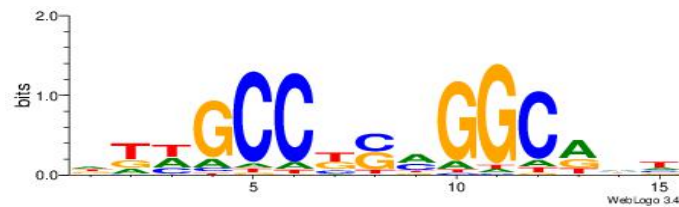
Motif ID: [UP00010](#)
Motif name: Tcfap2b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0624288

Alignment:

HHKGCCYSRGGCWAD
-BBVGCCBVGGCCTV

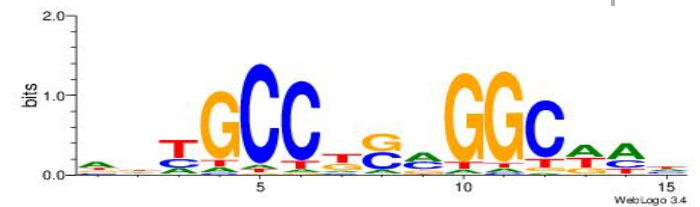
Original motif

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:

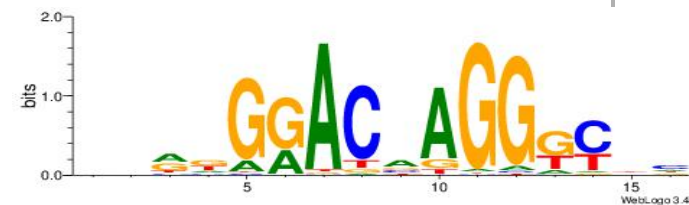
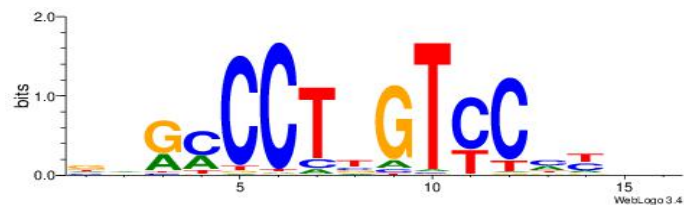
DDGMCCTBGTCCHYHV
VAGGCCBBGGCVBB--

Original motif

Consensus sequence: DDGMCCTBGTCCHYHV

Reverse complement motif

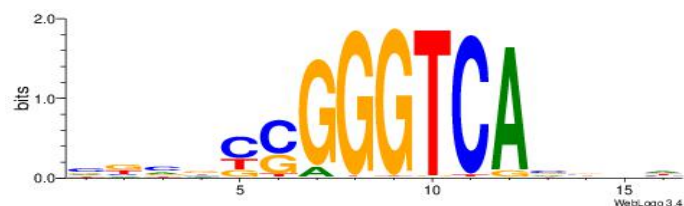
Consensus sequence: VHMDGGACVAGGRCDH



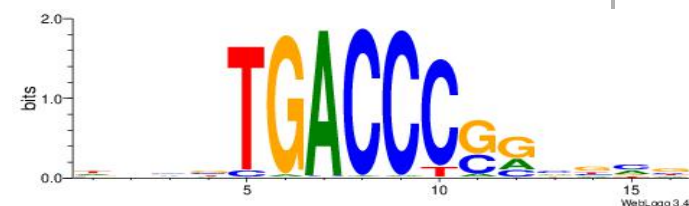
Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0636529

Alignment:
 HVBVTGACCCSGBVBV
 --VAGGCCBBGGCVBB

Original motif
 Consensus sequence: VBVBCTGGGTCAVBBH



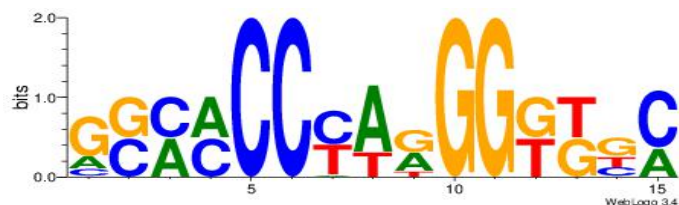
Reverse complement motif
 Consensus sequence: HVBVTGACCCSGBVBV



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

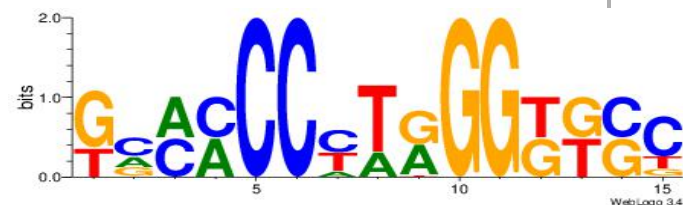
Original motif

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

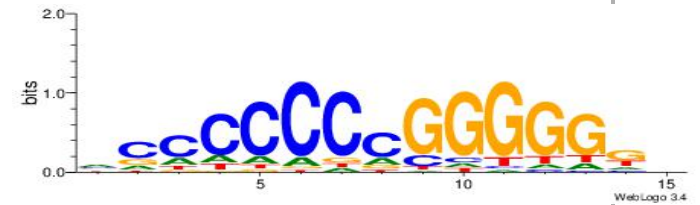
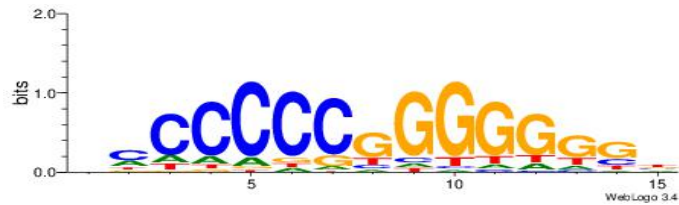
GSMMCCYARGGKKKC

Original motif

Consensus sequence: BMCCCCCGGGGGGB

Reverse complement motif

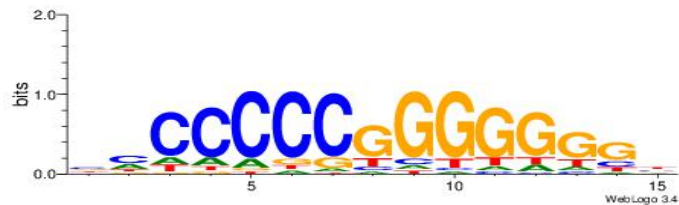
Consensus sequence: VCCCCCGGGGGRB



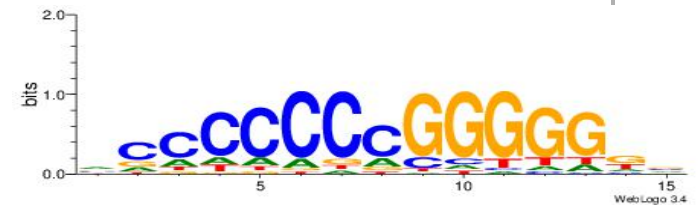
Motif ID: [UP00006](#)
 Motif name: Zic3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0213948

Alignment:
 BMCCCCCGGGGGGGB
 GSMCCYARGGKKKC

Original motif
 Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif
 Consensus sequence: VCCCCCGGGGGRB



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

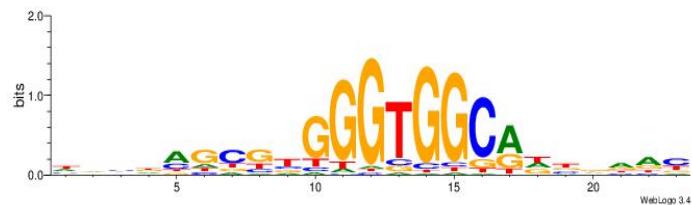
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0255241

Alignment:

BDDHVDKGCCACCCVCGCTDBVH
 -----GSMCCYARGGKKKC-

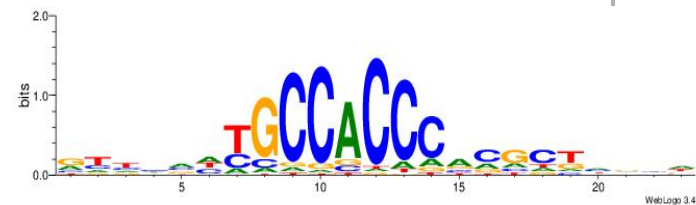
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



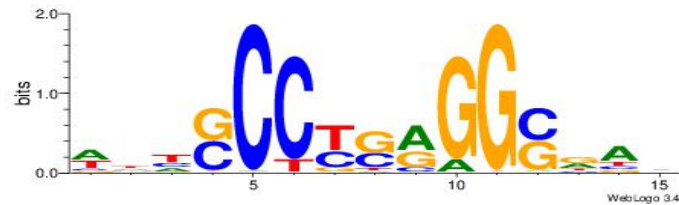
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0261399

Alignment:

WHHSCCYSRGGSDAD
GSMCCYARGGKKKC

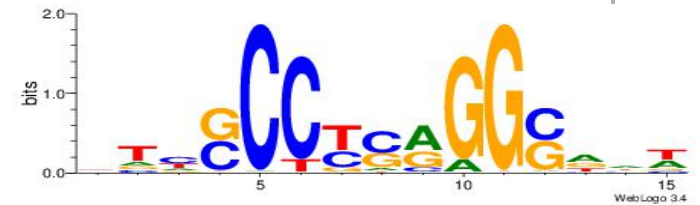
Original motif

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:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0266201

Alignment:

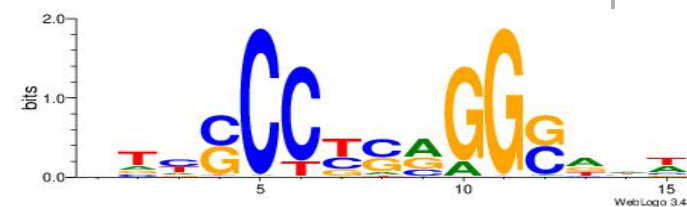
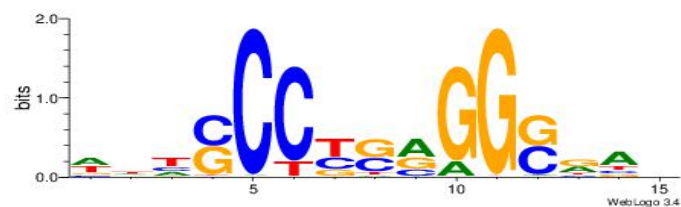
WDHSCCYSRGGSRAD
GSMCCYARGGKKKC

Original motif

Consensus sequence: WDHSCCYSRGGSRAD

Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



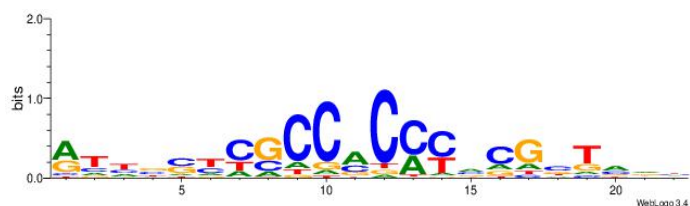
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 15
 Similarity score: 0.027503

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
 -----GSMGCCYARGGKKKC

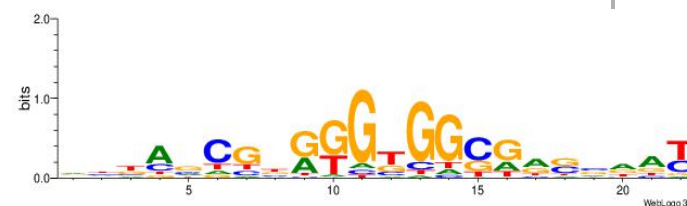
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00220](#)

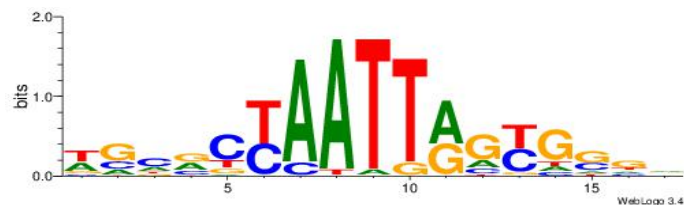
Motif name: Nkx1-1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0276935

Alignment:

WGHRCYAATTRGYGSDV
 -GYRYCCMTKGGYRSC-

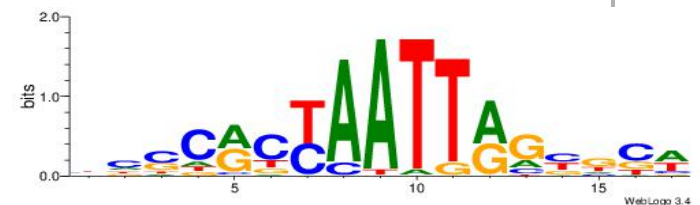
Original motif

Consensus sequence: WGHRCYAATTRGYGSDV



Reverse complement motif

Consensus sequence: BHSCMCKAATTMGMDCW



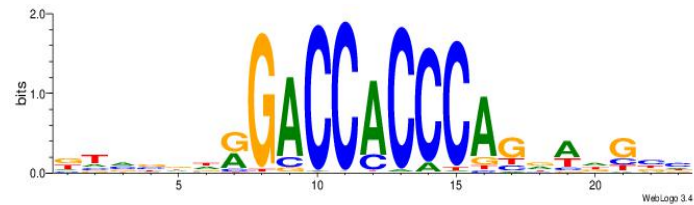
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0280481

Alignment:

DTVBD DRGACCACCCAGDWDGBH
-----GSMCCYARGGKKKC

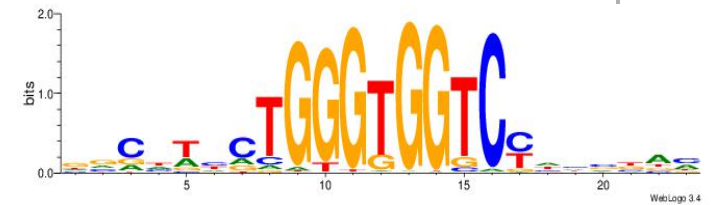
Original motif

Consensus sequence: DTVBD DRGACCACCCAGDWDGBH



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:

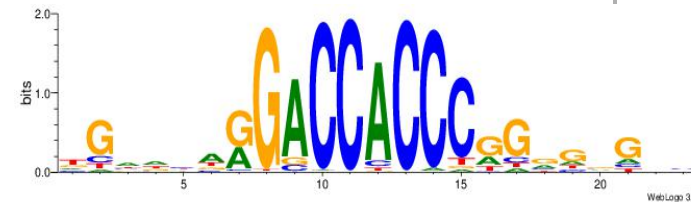
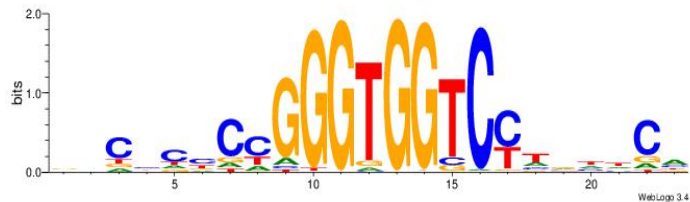
HGDHVHKGACCACCCGGBGBGDB
-----GSMCCYARGGKKKC

Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif

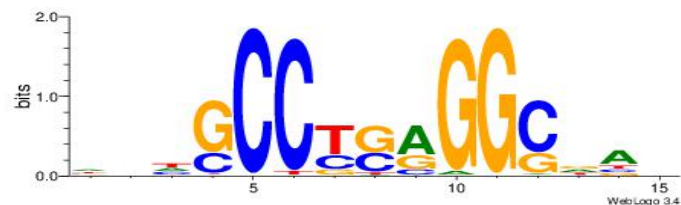
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



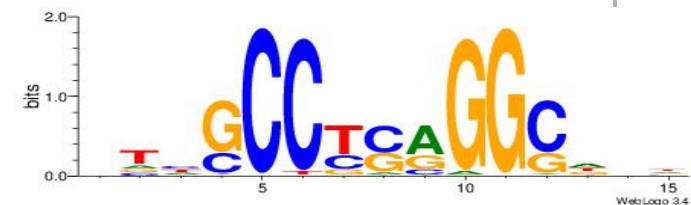
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.029693

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

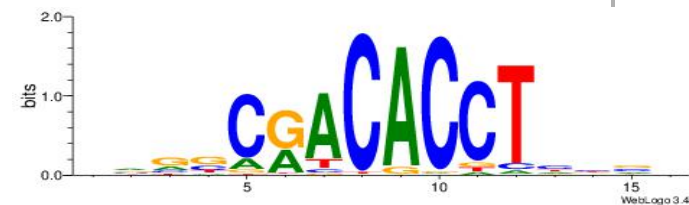
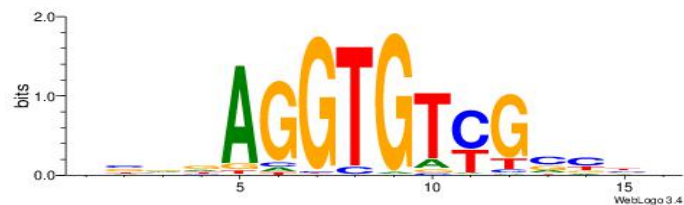
-----CACCTD---

Original motif

Consensus sequence: VBDAGGTGTYGVBBV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

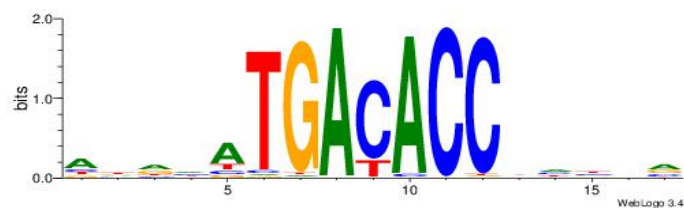


Motif ID: [UP00199](#)
 Motif name: Six4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.00433068

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

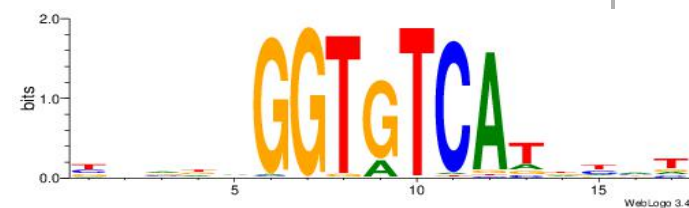
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTCTHDDT



Motif ID: [UP00068](#)

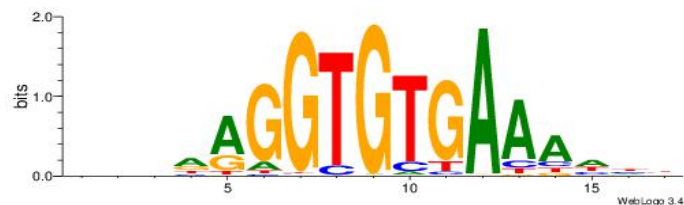
Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00524081

Alignment:

HHHTTTCACACCTDHBV
 -----CACCTD---

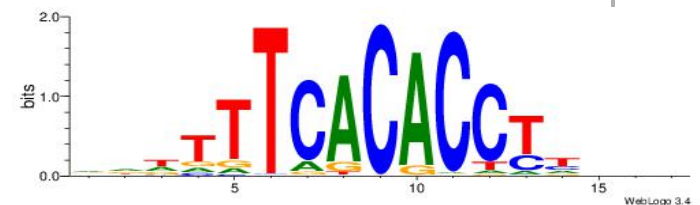
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV

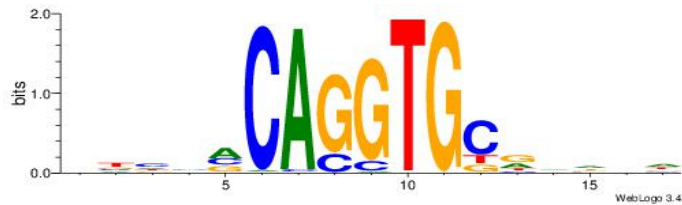


Motif ID: [UP00046](#)
 Motif name: Tcf2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6

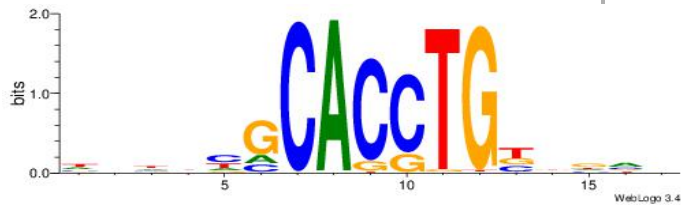
Similarity score: 0.00911301

Alignment:
DHDBHGCACCTGBDDVB
-----CACCTD-----

Original motif
Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
Consensus sequence: DHDBHGCACCTGBDDVB

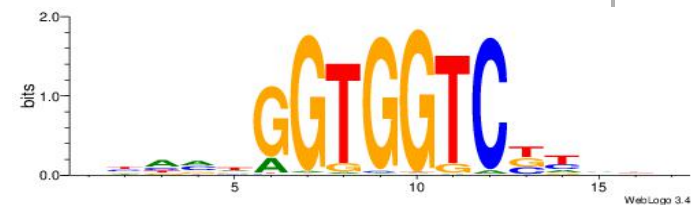
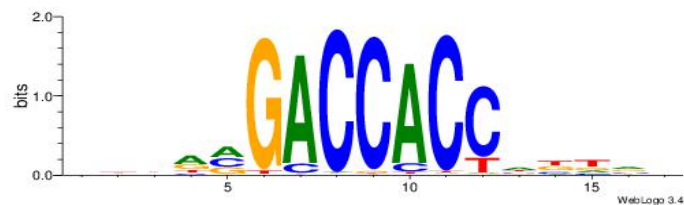


Motif ID: [UP00047](#)
Motif name: Zbtb7b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 6
Similarity score: 0.0233556

Alignment:
BDDRVGACCACCHBDVB
-----CACCTD---

Original motif
Consensus sequence: BDDRVGACCACCHBDVB

Reverse complement motif
Consensus sequence: BBDVHGGTGGTCBKDDDB



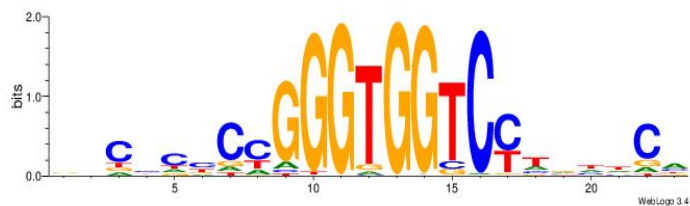
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 11
 Number of overlap: 6
 Similarity score: 0.0233928

Alignment:

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

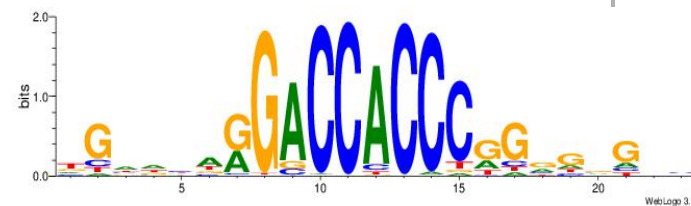
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



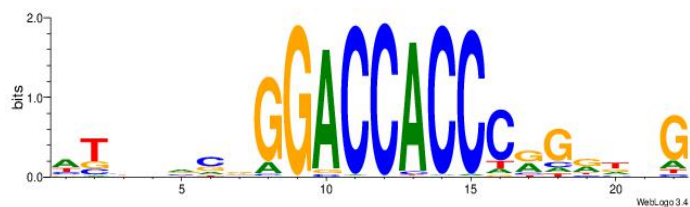
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0254338

Alignment:

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

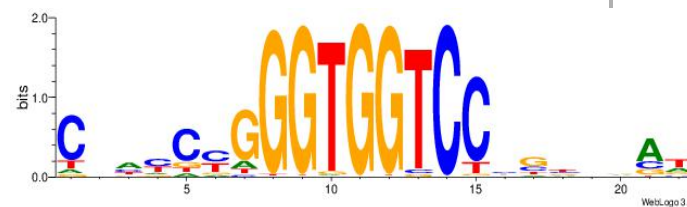
Original motif

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: Backward
 Position number: 6

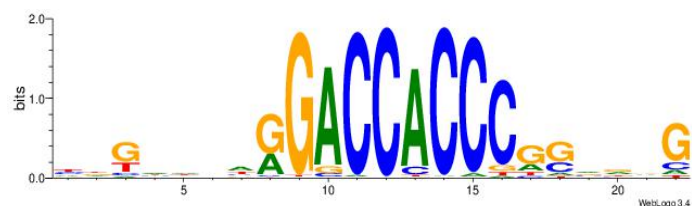
Number of overlap: 6
Similarity score: 0.0290143

Alignment:

HDGHHBHRGACCACCCGSVDVG
-----CACCTD-----

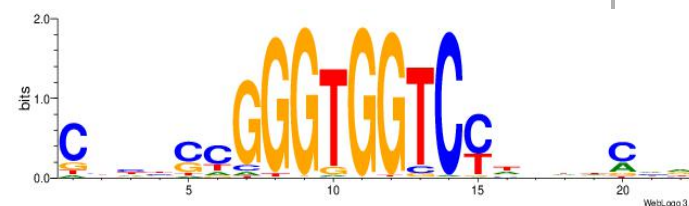
Original motif

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

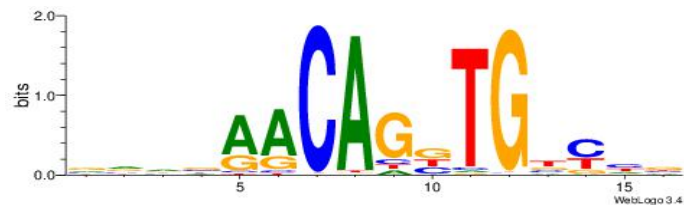
Alignment:

VVDBAACAGBTGBYHB
-----HAGGTG-----

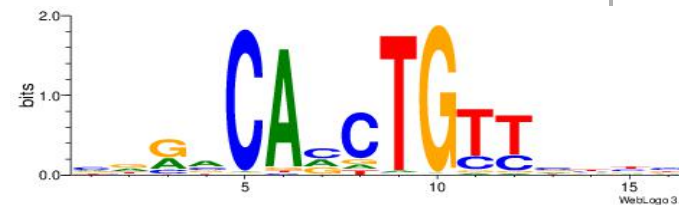
Original motif

Reverse complement motif

Consensus sequence: VVDBAACAGBTGBYHB



Consensus sequence: BDKVCABCTGTTBDBV



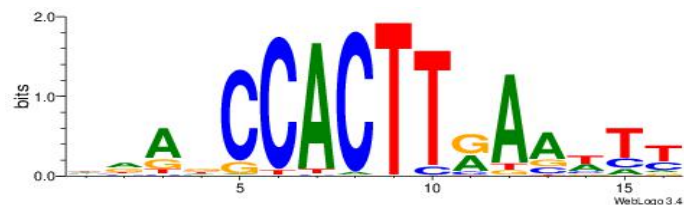
Motif ID: [UP00249](#)
Motif name: Nkx2-5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.031502

Alignment:

```
HDADCCACTTAAWTT  
-----CACCTD-----
```

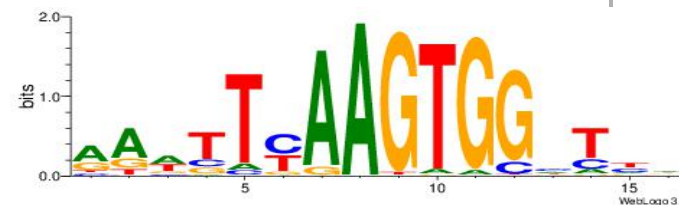
Original motif

Consensus sequence: HDADCCACTTAAWTT



Reverse complement motif

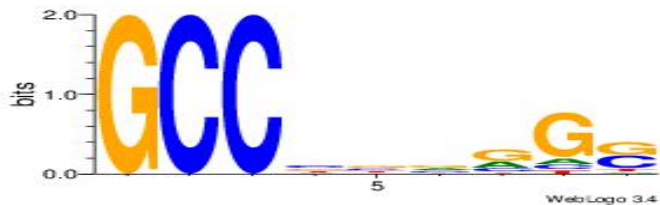
Consensus sequence: AAWTTMAAGTGGHTDH



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

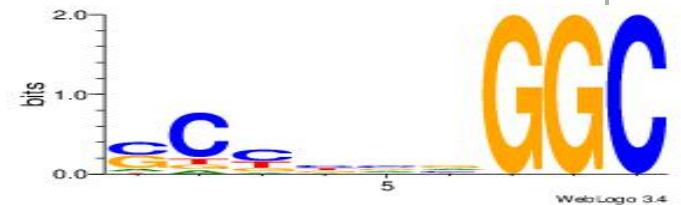
Original motif

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

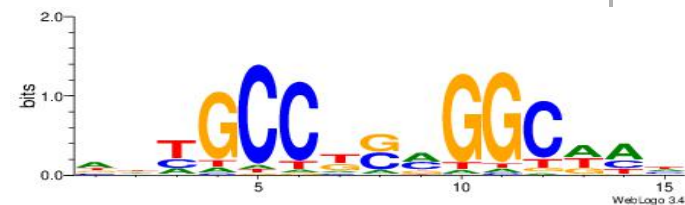
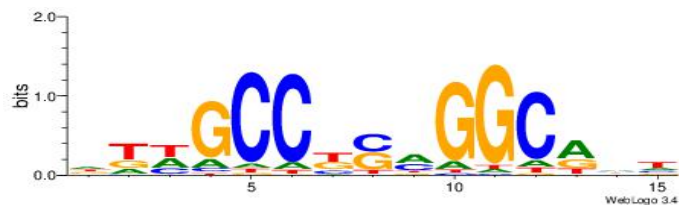
---GCCBBVRGS---

Original motif

Consensus sequence: DTWGCKSMGGCRHH

Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

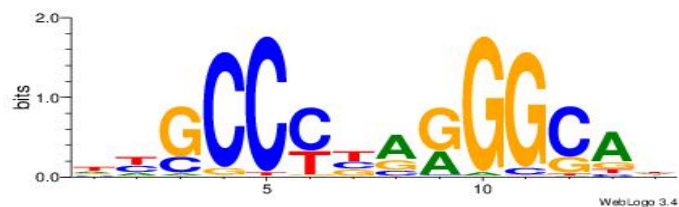


Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 9
 Similarity score: 0.0150447

Alignment:
 DYGCCYBARGGCAH
 --GCCBBVRGS---

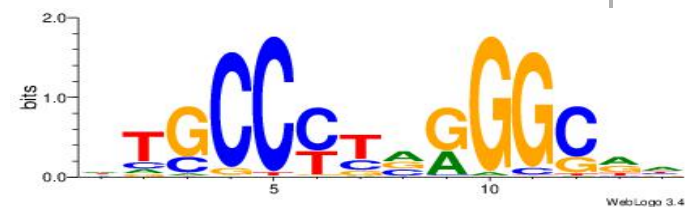
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



Motif ID: [UP00005](#)

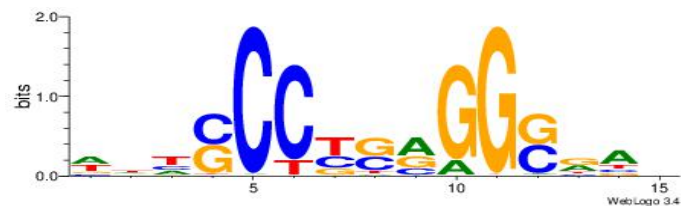
Motif name: Tcfap2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0151527

Alignment:

WDHSCCYSRGGSRAD
 ---GCCBBVRGS---

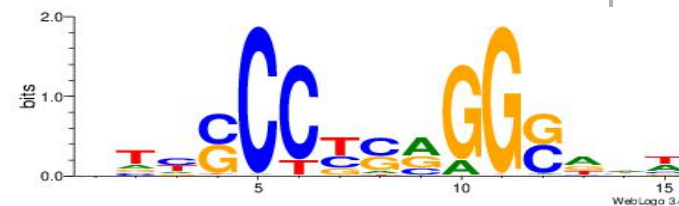
Original motif

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---

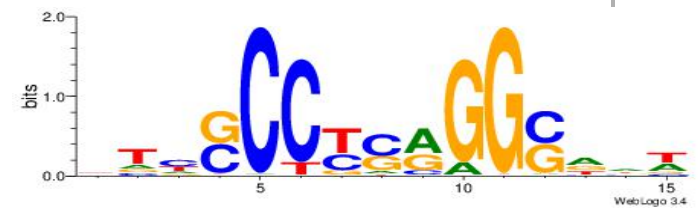
Original motif

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

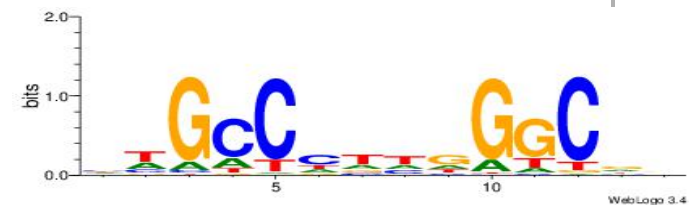
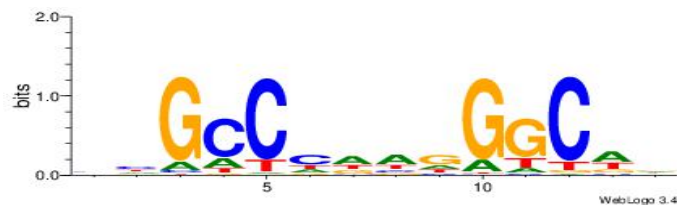
--GCCBBVRGS---

Original motif

Consensus sequence: BHGCCCDAGGGCWD

Reverse complement motif

Consensus sequence: HWGCCCTDGGGCDB



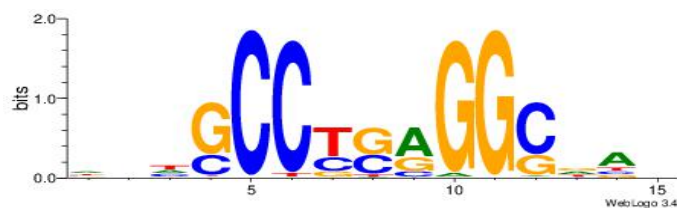
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0198854

Alignment:

HHHGCCTSAGGCDAD
 ---GCCBBVRGS---

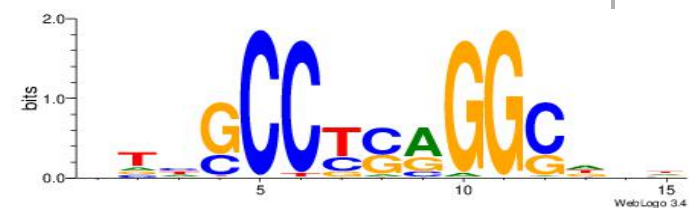
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



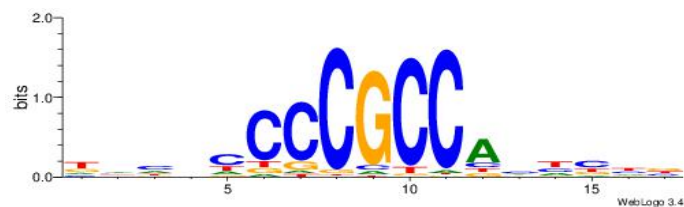
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 9
 Similarity score: 0.0203681

Alignment:

BHBHDTGGCGGGBDHD
 SCMVBBGGC-----

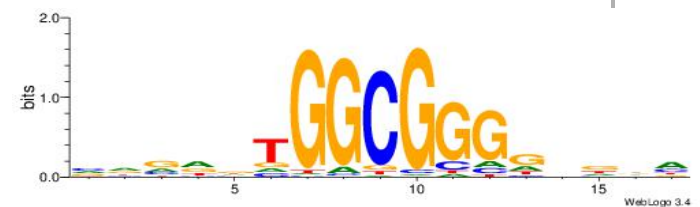
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD

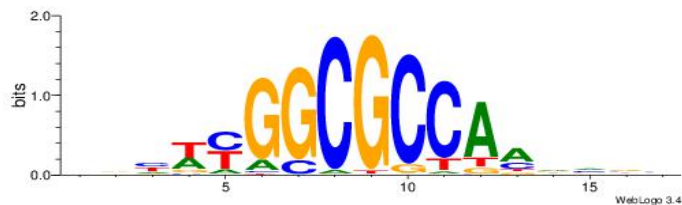


Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1

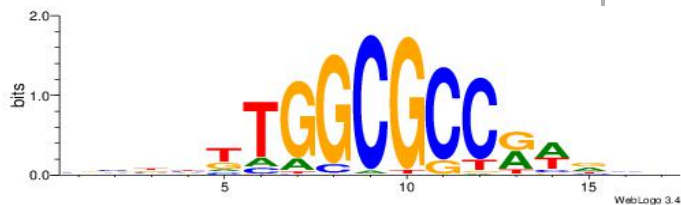
Number of overlap: 9
Similarity score: 0.0217064

Alignment:
BBBDYTGGCGCCKWDBD
SCMVBBGGC-----

Original motif
Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif
Consensus sequence: BBBDYTGGCGCCKWDBD



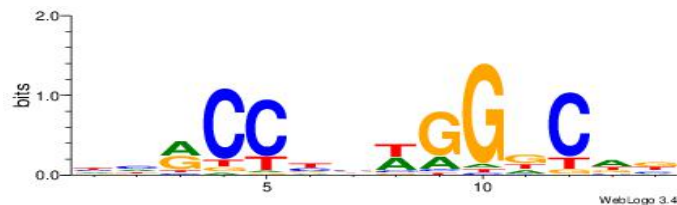
Motif ID: [UP00005](#)
Motif name: Tcfap2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0234775

Alignment:
HHRCCBBWGGDCDB
--GCCBBVRGS---

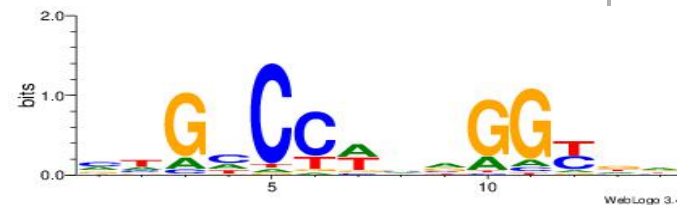
Original motif

Reverse complement motif

Consensus sequence: HHRCCBBWGGDCDB



Consensus sequence: BDGHCCWBVGGKDH



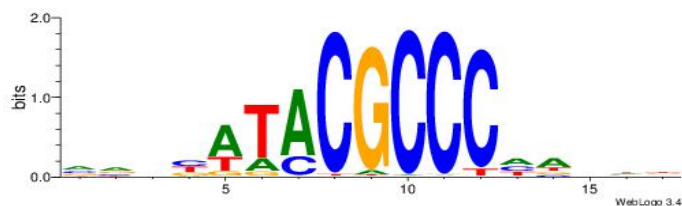
Motif ID: [UP00093](#)
Motif name: Klf7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.026642

Alignment:

VVDBATACGCCCHAHHD
-----GCCBBVRGS

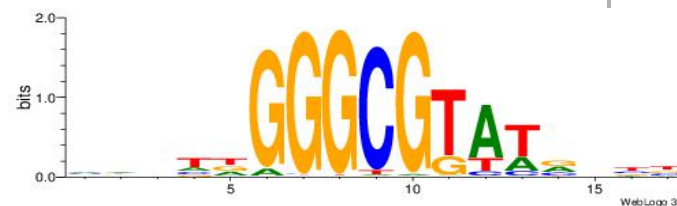
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

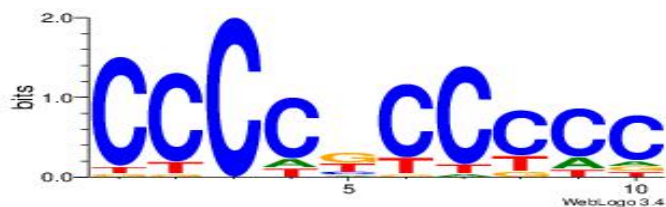
Consensus sequence: DHDTHGGGCGTATBHBB



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

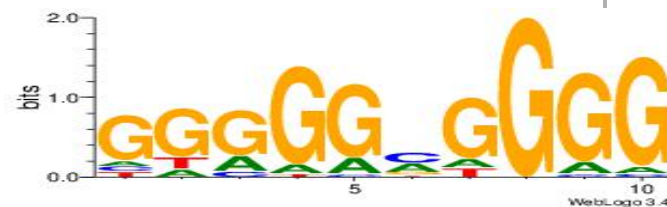
Original motif

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

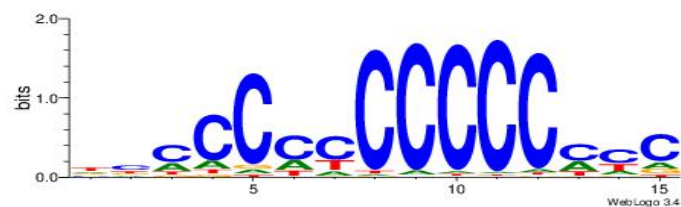
--CCCCKCCCCC---

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

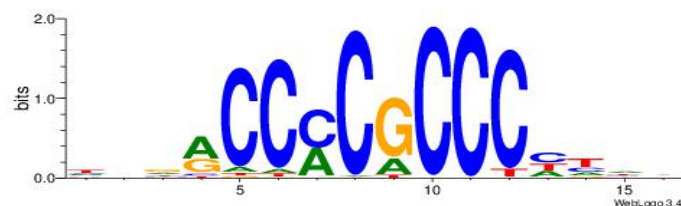


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0303207

Alignment:
 HBDRCMCGCCCHHD
 ----CCCCKCCCC--

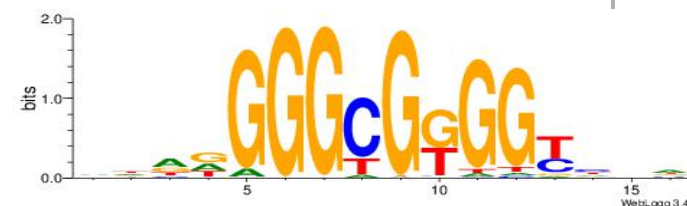
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00033](#)

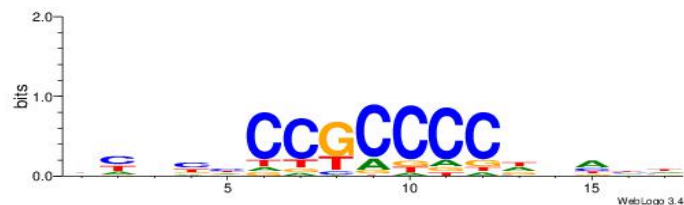
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0323007

Alignment:

HHHHDGGGGCGGDBHDV
 ----GGGGGYGGG---

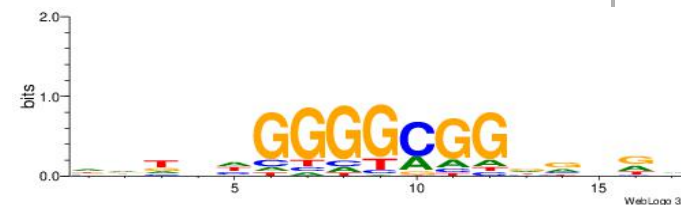
Original motif

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

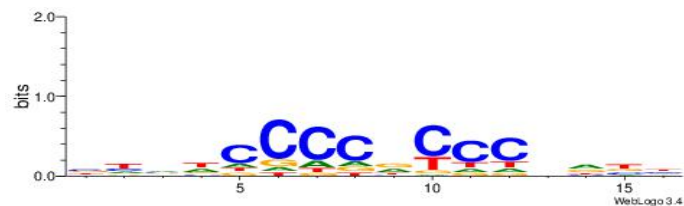
Alignment:

HVDVGGGHGGGGDBHB

--GGGGGYGGGG----

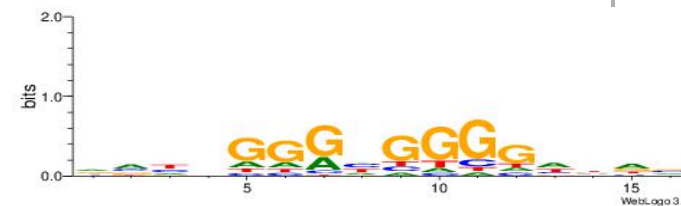
Original motif

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: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH

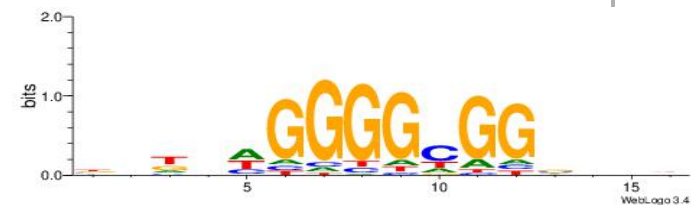
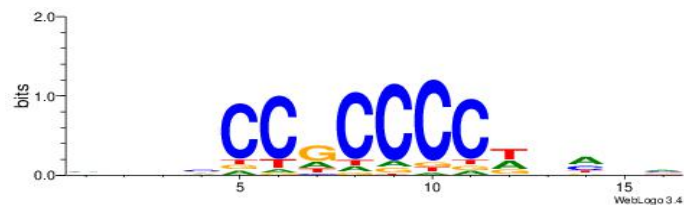
----GGGGGYGGGG--

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



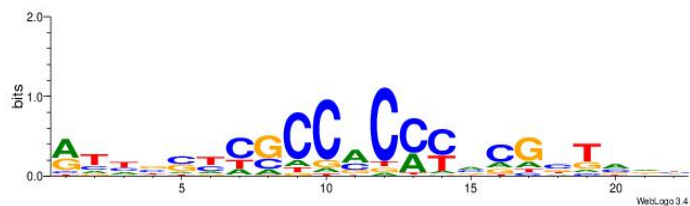
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0390437

Alignment:

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

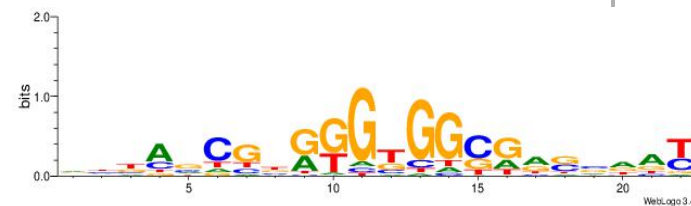
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



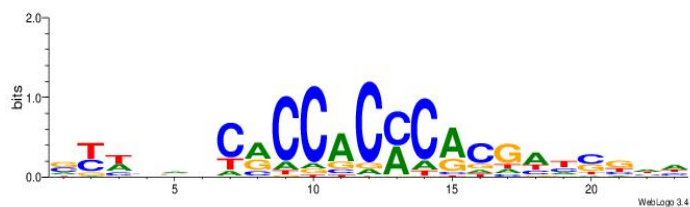
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0393358

Alignment:

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

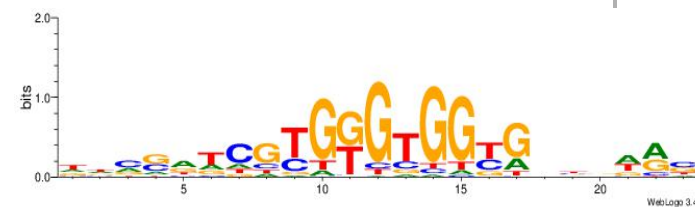
Original motif

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

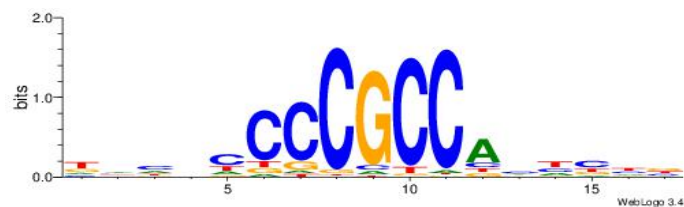
Number of overlap: 10
Similarity score: 0.0413863

Alignment:

DHHBCCCCGCCAHHBHB
----CCCCKCCCC--

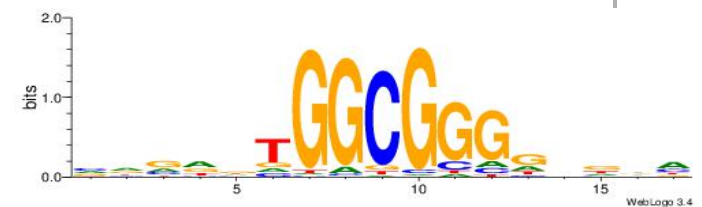
Original motif

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

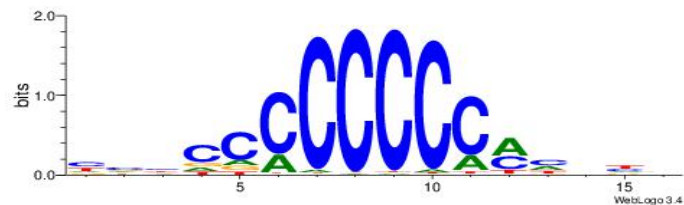
Alignment:

HVBCCCCCCCCMHHHB
---CCCCKCCCC---

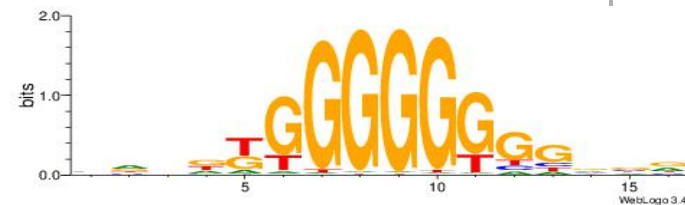
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



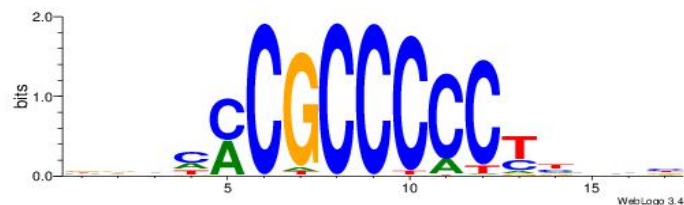
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0420708

Alignment:

BDHHMCGCCCCCTHVBB
--CCCCKCCCC-----

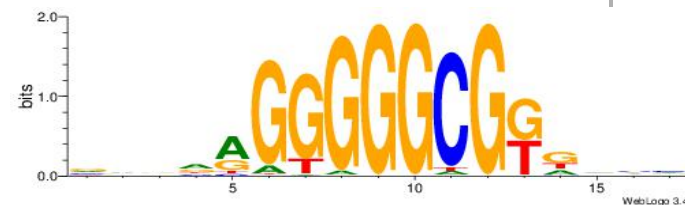
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGGCGRDHHB



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

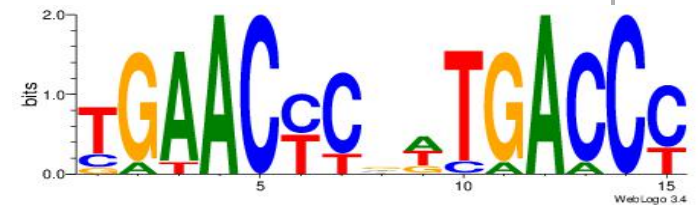
Original motif

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

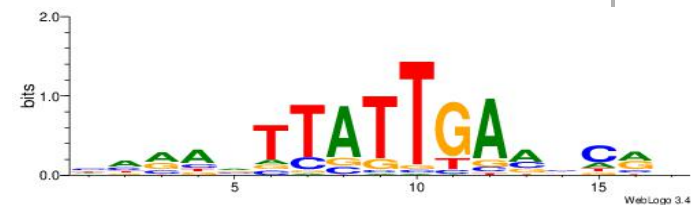
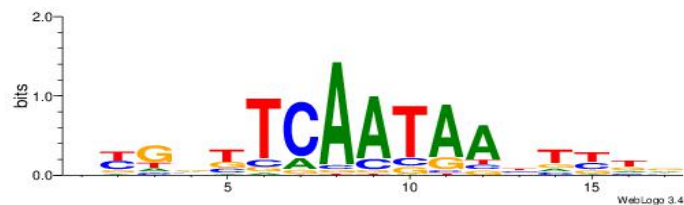
--GGGTCAWBGRGTTCA

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

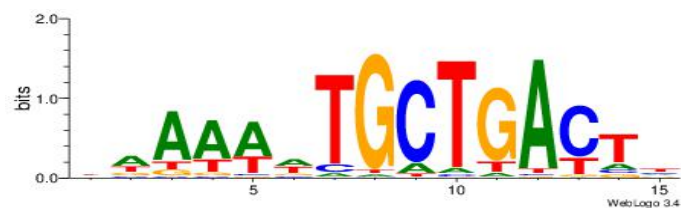
Alignment:

DWAAAWTGCTGACTH

TGAACKCBWTGACCC

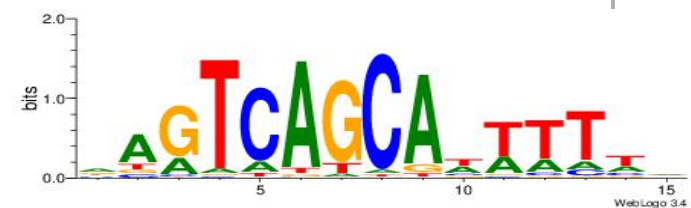
Original motif

Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



Motif ID: [UP00538](#)

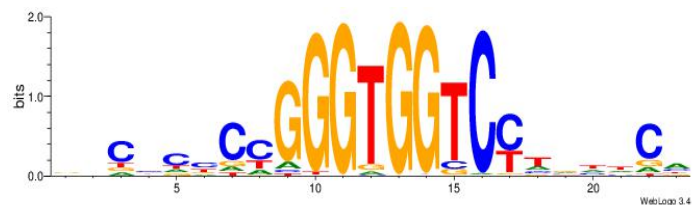
Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 15
 Similarity score: 0.0682816

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -----GGGTCAWBGRGTTCA

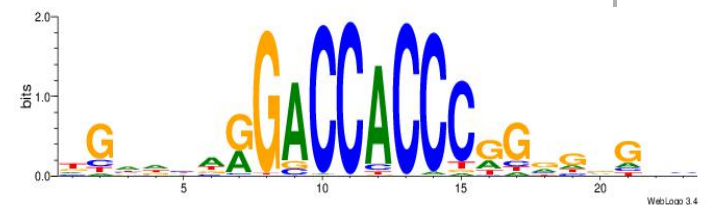
Original motif

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

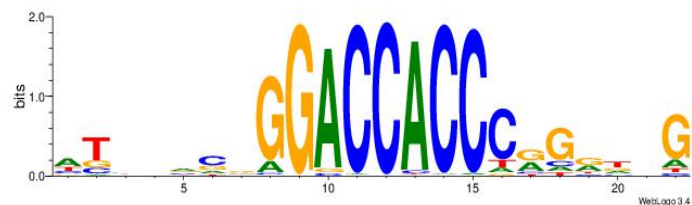
Alignment:

HTBVVVDGGACCACCCRGRDBG

-TGAACKCBWTGACCC-----

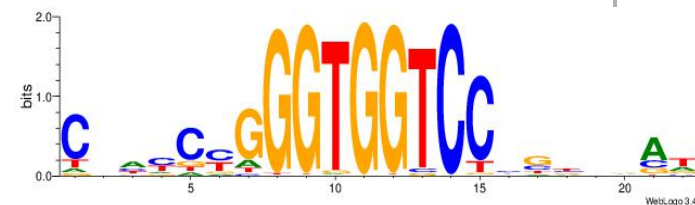
Original motif

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

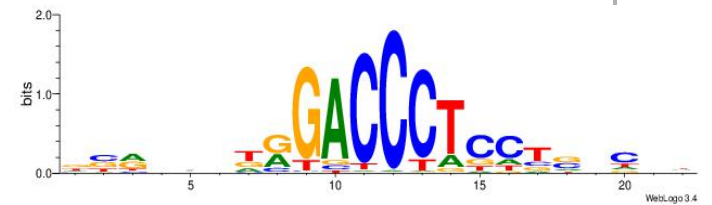
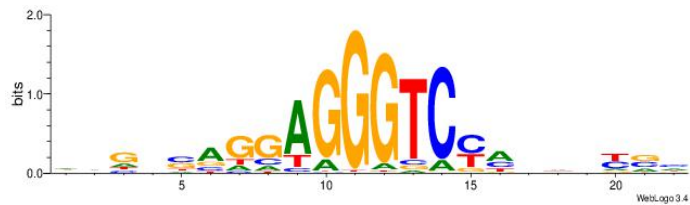
-----TGAACKCBWTGACCC

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

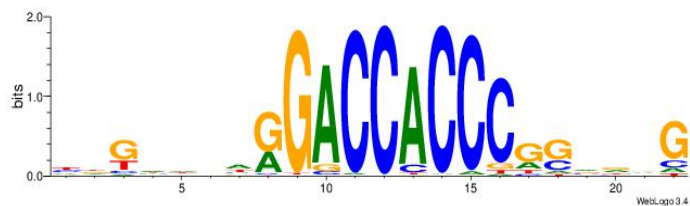
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



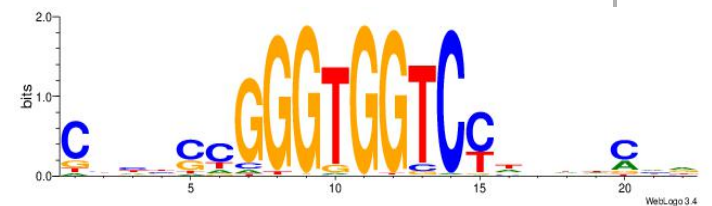
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.072162

Alignment:
 CVHBSCGGGTGGTCMHVHHCDH
 -----GGGTCAWBGRGTTCA-

Original motif
 Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
 Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00045](#)

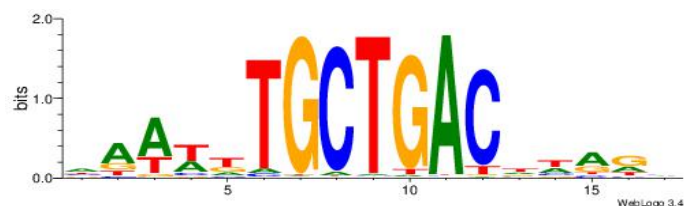
Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.562034

Alignment:

DMTWDGTCAGCADWTTH-
 -TGAACKCBWTGACCC--

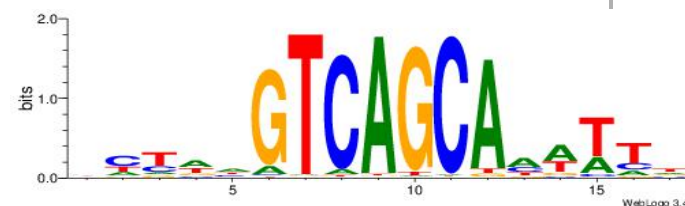
Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



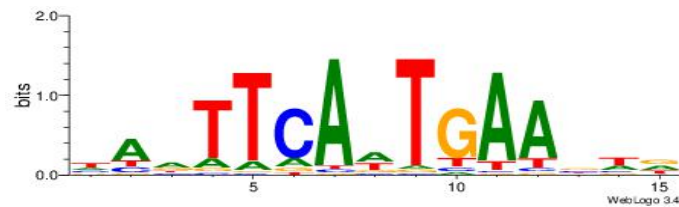
Motif ID: [UP00012](#)
 Motif name: Bbx_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.562788

Alignment:

HWBTTCAWTGAADTH-
-GGGTCAWBGRGTTCA

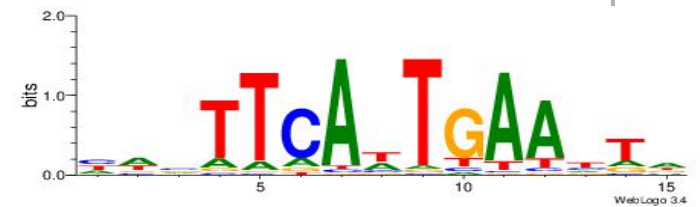
Original motif

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:

Forward

Position number:

1

Number of overlap:

14

Similarity score:

0.56549

Alignment:

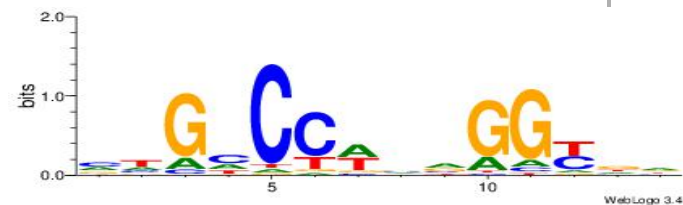
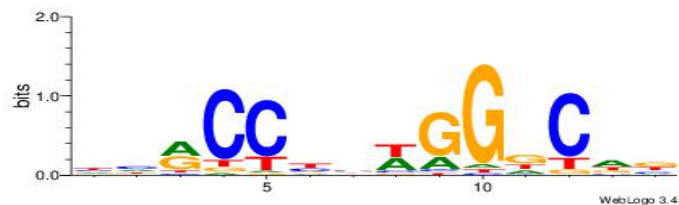
HHRCCBBWGGDCDB-
GGGTCAWBGRGTTCA

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGKGDH



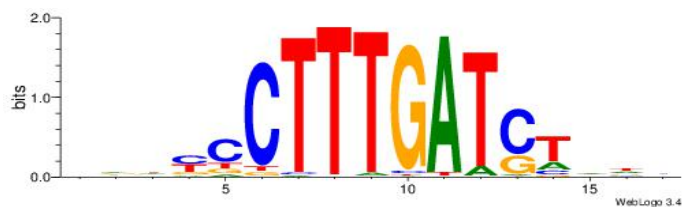
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.565777

Alignment:

VDDAGATCAAAGGKDDD-
 ---GGGTCAWBGRGTTCA

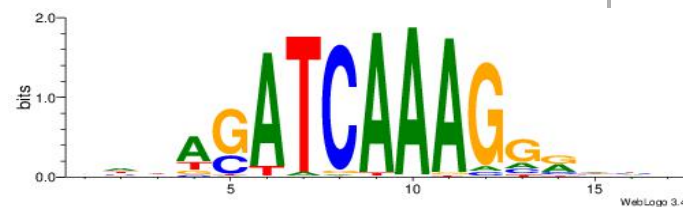
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

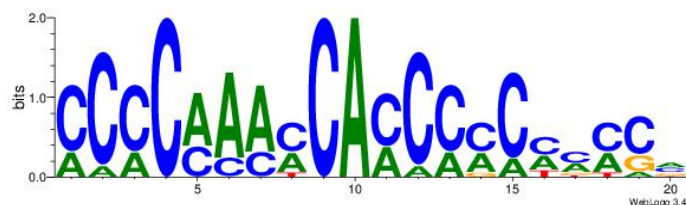
Consensus sequence: VDDAGATCAAAGKDDD



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

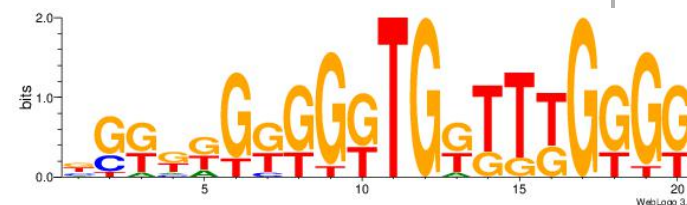
Original motif

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:

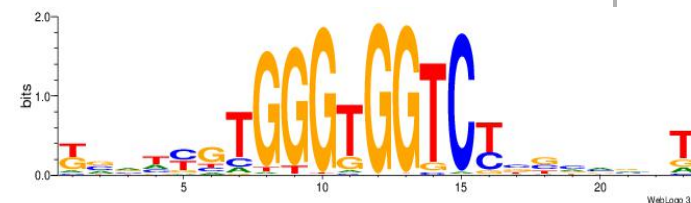
```
YBVD MGTGGGTGGTCKVVBVBBT
BGRRRGRGGRTGRTTYGGG---
```

Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM

Reverse complement motif

Consensus sequence: YBVD MGTGGGTGGTCKVVBVBBT



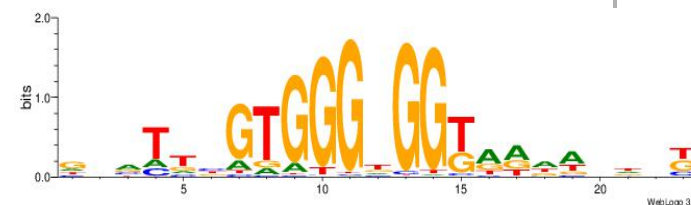
Alignment:

```
MHHHWHYTMCCCHCCACVAABVH
--CCCCMAAMCAMCCMCMMMCVC-
```

Consensus sequence: MHHWHYTMCHCCACVAABVH



Consensus sequence: DVTTVGTGGGHGGYAMHWHHHY



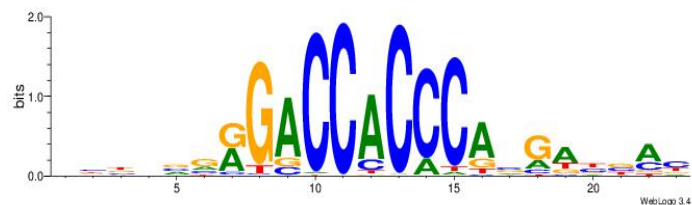
Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0546172

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
 -BGRRRGRGGRTGRTTYGGGG--

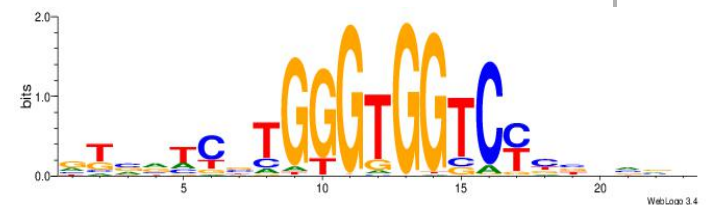
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

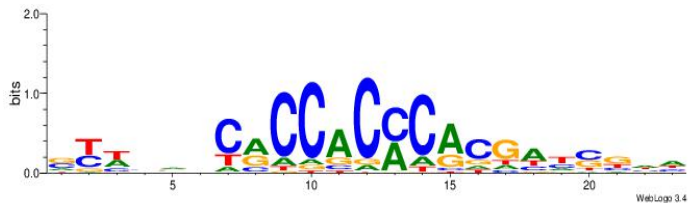


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 20

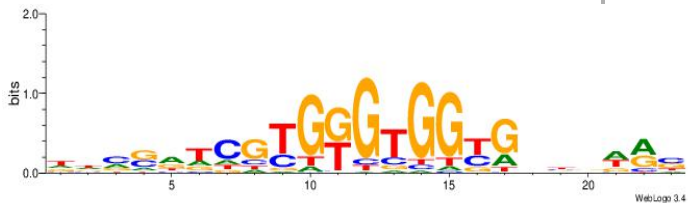
Similarity score: 0.055783

Alignment:
VYWVVHCRCCACMCACGAHSBHH
-CCCCMAAMCAMCCMCMMMCVCV--

Original motif
Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif
Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

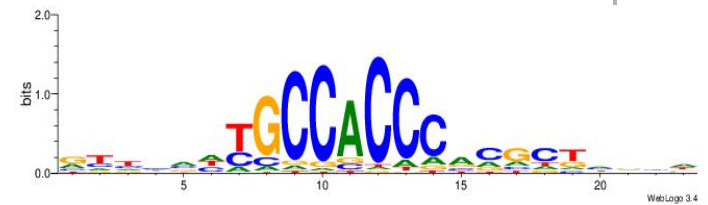
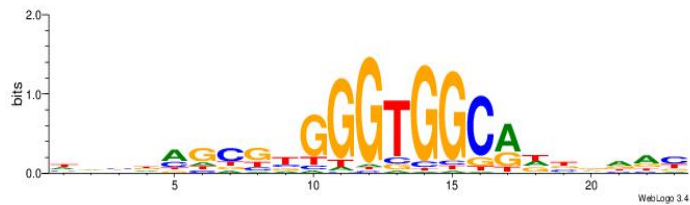


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.057969

Alignment:
HVBDAGCGBGGGTGGCRDBDDDB
--BGRRRGRGGRTGRTTYGGGG-

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



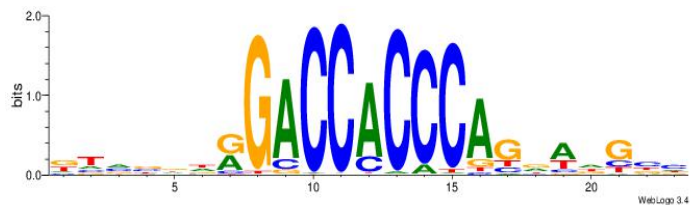
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0595101

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 --CCCCMAAMCAMCCMCMMMCVCV--

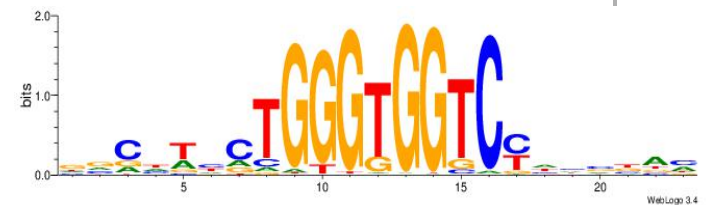
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



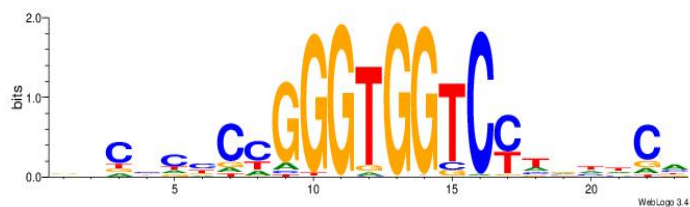
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0622003

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -BGRRRGRGGRTGRTTYGGGG--

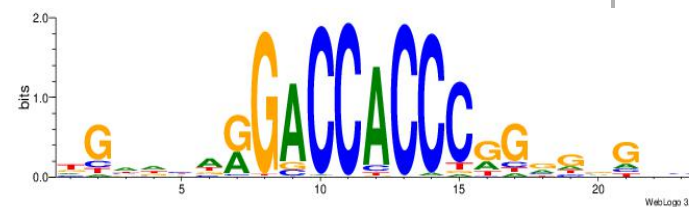
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

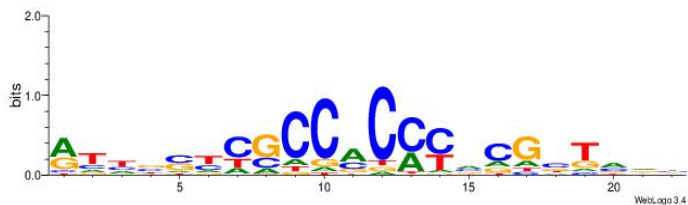


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2

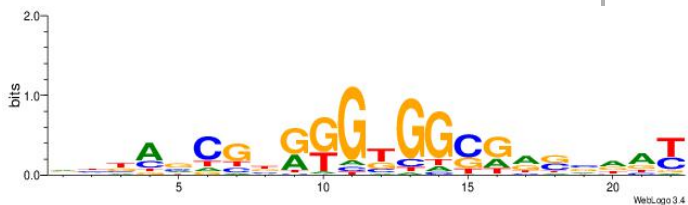
Number of overlap: 20
Similarity score: 0.0626951

Alignment:
RTHBSYCGCCMCMYVCGBTVDH
-CCCCMAAMCAMCCMCMMMCVCV-

Original motif
Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



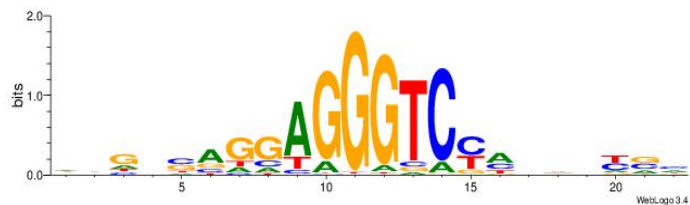
Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0631901

Alignment:
DVMHHDHKGACCCTCCTSVCBH
CCCCMAAMCAMCCMCMMMCVCV--

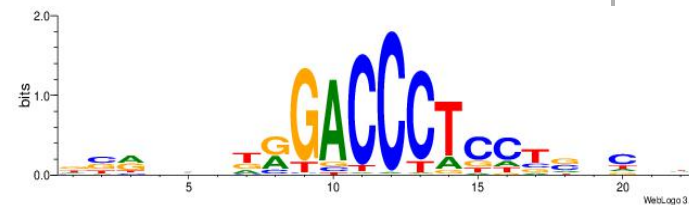
Original motif

Reverse complement motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



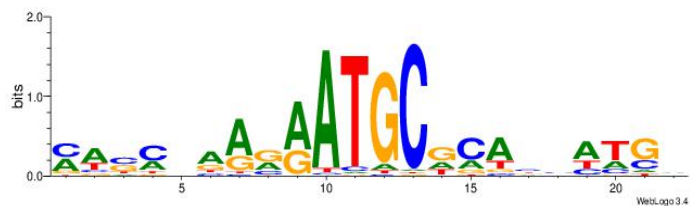
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.0673848

Alignment:

DCATDBTGHGCATKMTTBRSWR
--BGRRRGRGGRTGRTTYGGGG

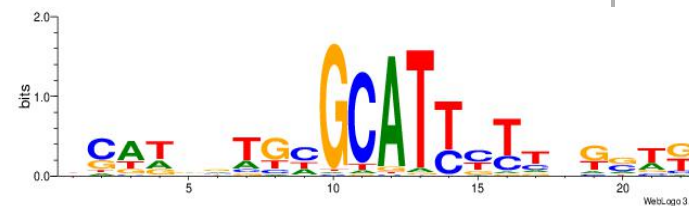
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

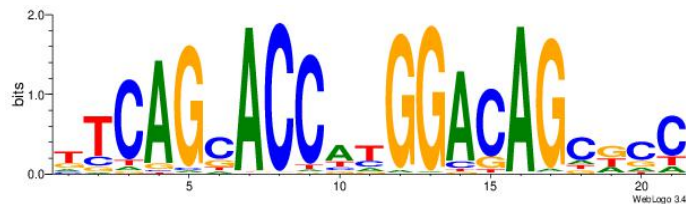
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

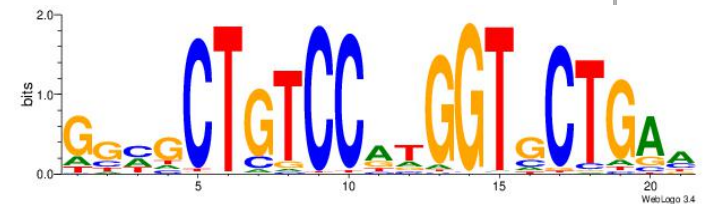
Original motif

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:

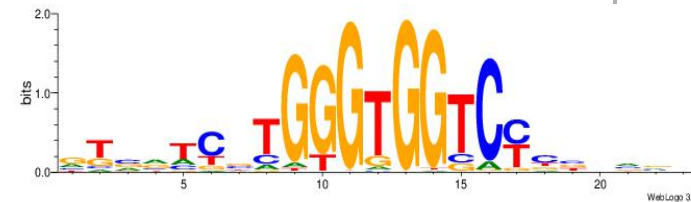
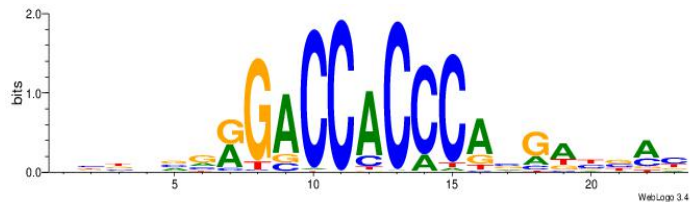
```
BBBDVVRGACCACCCAVGABBAB
--TTCAGCACCATGGACAGCKCC
```

Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB

Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB

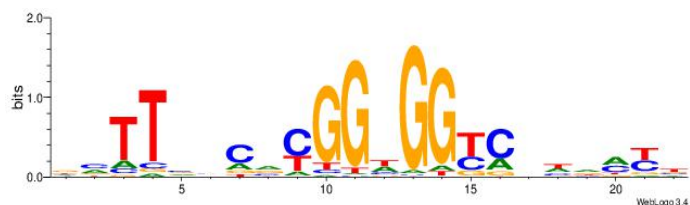


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0734685

Alignment:
 VMYDHDGMCCHCCKBGVVAHV
 GYGCTGTCCATGGTGCTGAA-

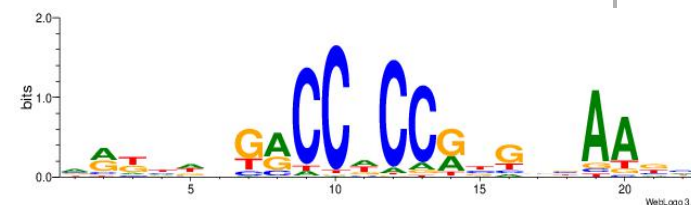
Original motif

Consensus sequence: DTTTVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAHV



Motif ID: [UP00540](#)

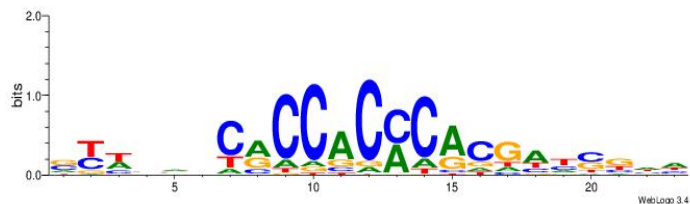
Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.0740652

Alignment:

VYWVVHCRCCACMCACGAHSBHH
 -TTCAGCACCATGGACAGCKCC-

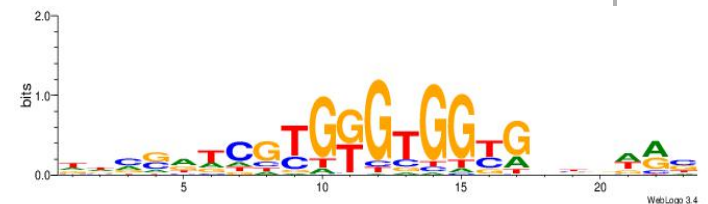
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

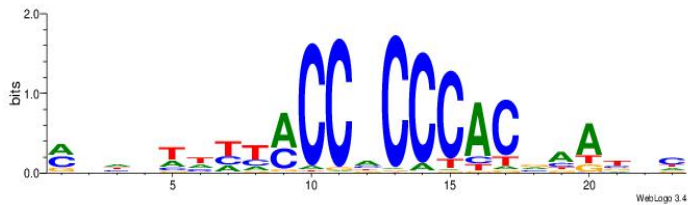


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21

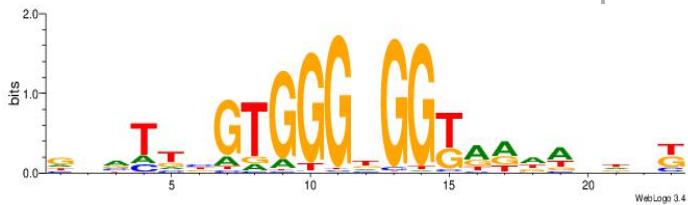
Similarity score: 0.0750152

Alignment:
MHHHWHYTMCCCHCCCACVAABVH
--TTCAGCACCATGGACAGCKCC

Original motif
Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif
Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

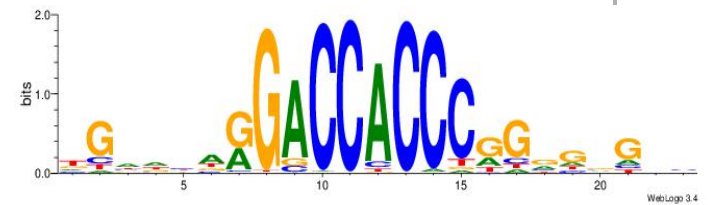
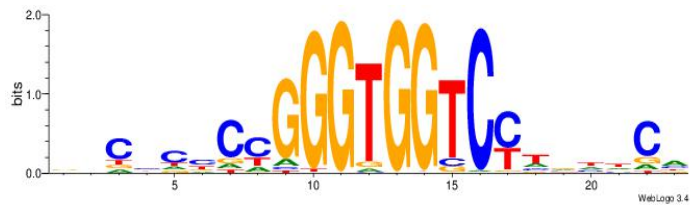


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 21
Similarity score: 0.0751449

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
GGYGCTGTCCATGGTGCTGAA--

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

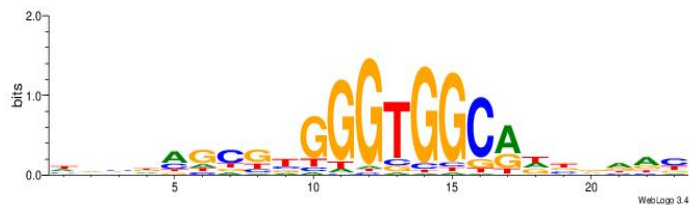
Reverse complement motif
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



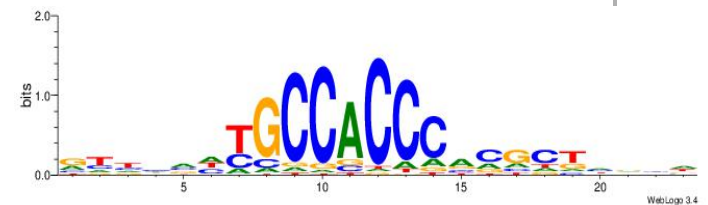
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 21
 Similarity score: 0.075832

Alignment:
 BDDHVDKGCCACCCVCGCTDBVH
 -TTCAGCACCATGGACAGCKCC-

Original motif
 Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
 Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



Motif ID: [UP00539](#)

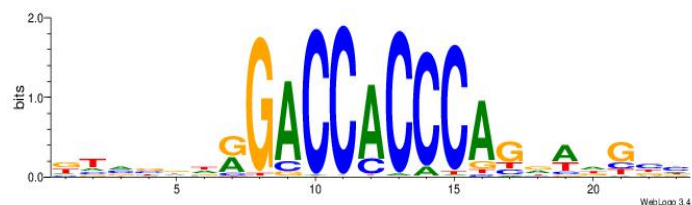
Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0773446

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 --TTCAGCACCATGGACAGCKCC

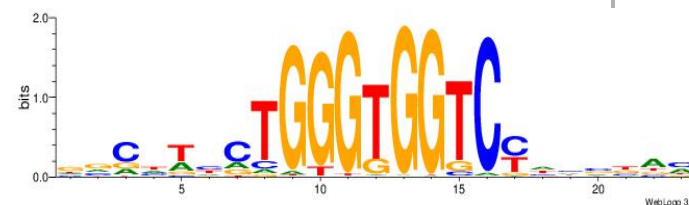
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAA



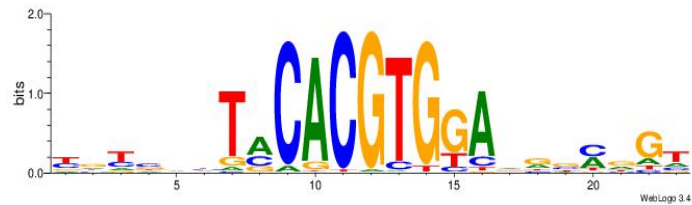
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 21
 Similarity score: 0.0775367

Alignment:

YDYBDHTMCACGTGGADDBMDGT
--TTCAGCACCATGGACAGCKCC

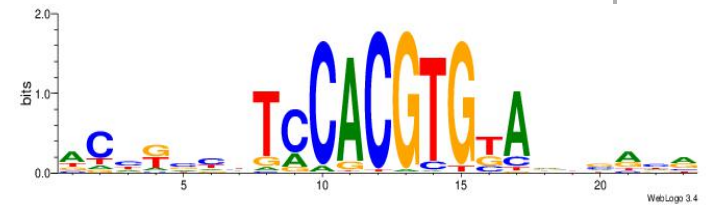
Original motif

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:

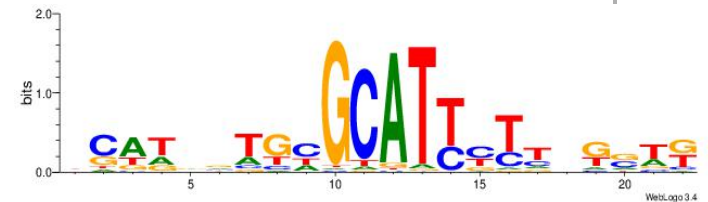
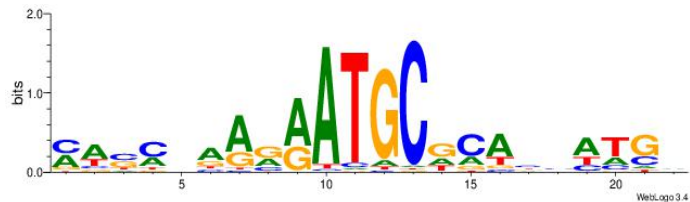
DCATDBTGHGCATKMTTBRSWR
-GGYGCTGTCCATGGTGCTGAA

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

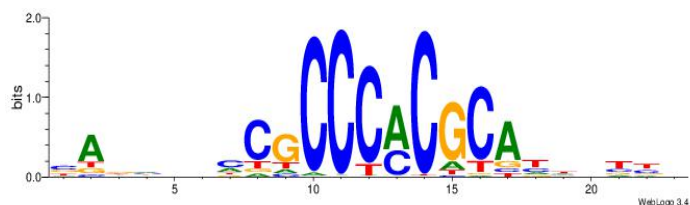
Consensus sequence: DCATDBTGHGCATKMTTBRSWR



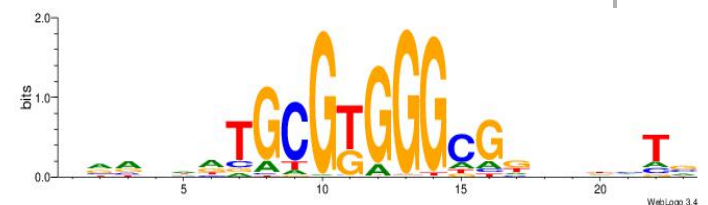
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 21
 Similarity score: 0.0785969

Alignment:
 BADHBDHCGCCCMCGCAHHDBBV
 --GGYGCTGTCCATGGTGCTGAA

Original motif
 Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



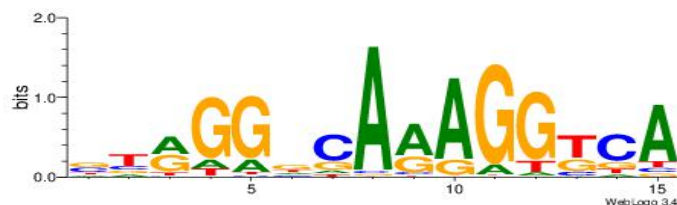
Reverse complement motif
 Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



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

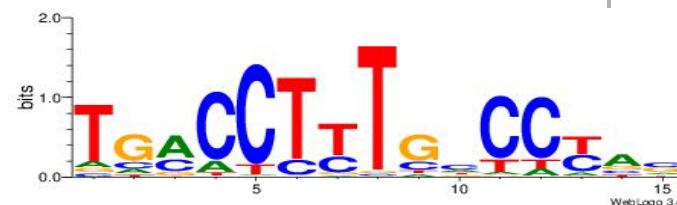
Original motif

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

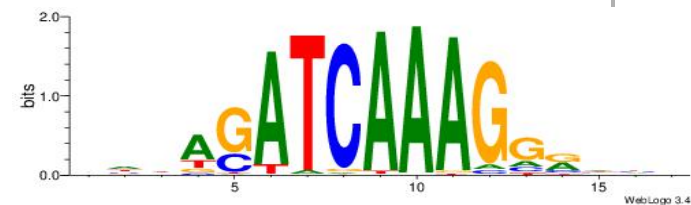
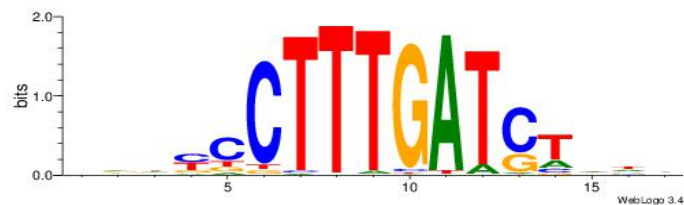
-BTRGGDCARAGGKCA-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

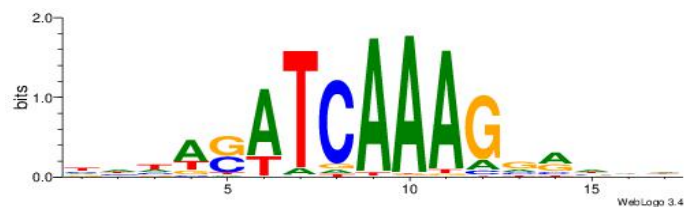


Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0319475

Alignment:
 HHHASATCAAAGVRHHH
 -BTRGGDCARAGGKCA-

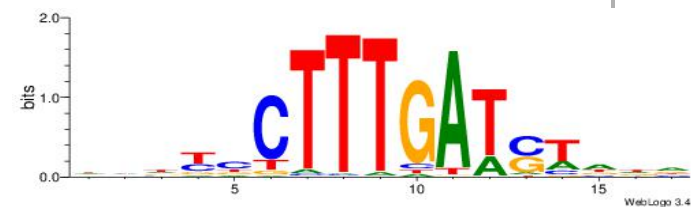
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



Motif ID: [UP00054](#)

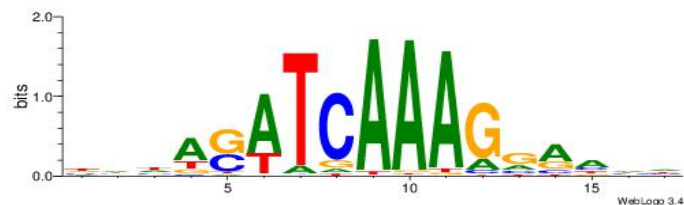
Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.032779

Alignment:

BHHASATCAAAGGAHHH
 -BTRGGDCARAGGKCA-

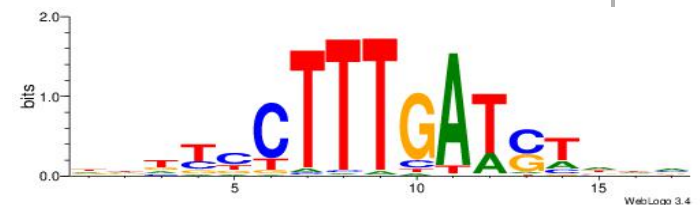
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV

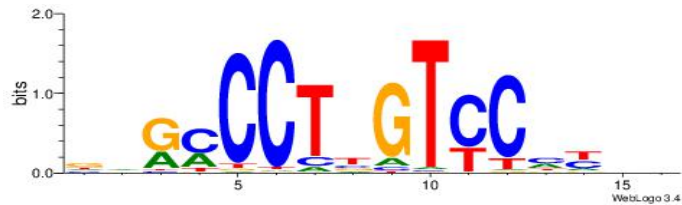


Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15

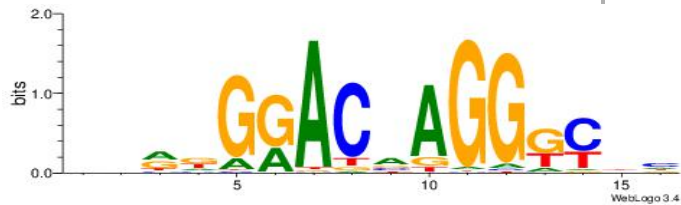
Similarity score: 0.0334185

Alignment:
VHMDGGACVAGGRCDH
BTRGGDCARAGGKCA-

Original motif
Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif
Consensus sequence: VHMDGGACVAGGRCDH

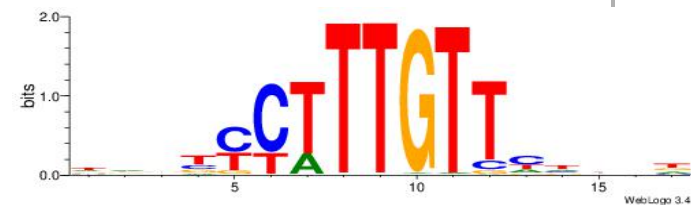
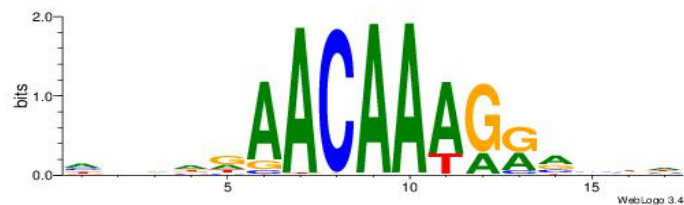


Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0352539

Alignment:
HBDDDAACAAAGRVBHH
-BTRGGDCARAGGKCA-

Original motif
Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif
Consensus sequence: HHBBMCTTTGTTHDDBH



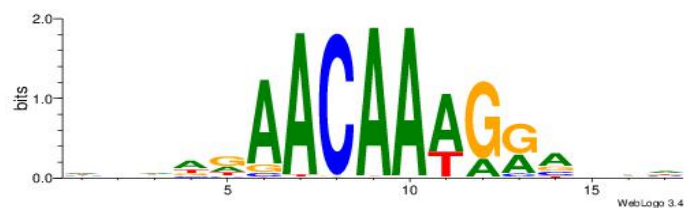
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0358782

Alignment:

HBDDRAACAAAGRABHH
 -BTRGGDCARAGGKCA-

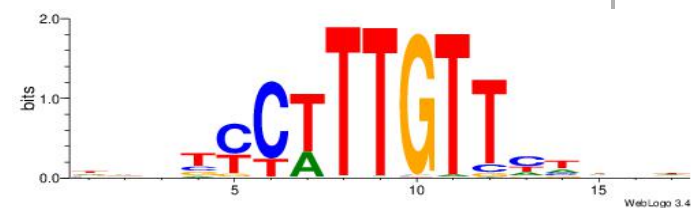
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



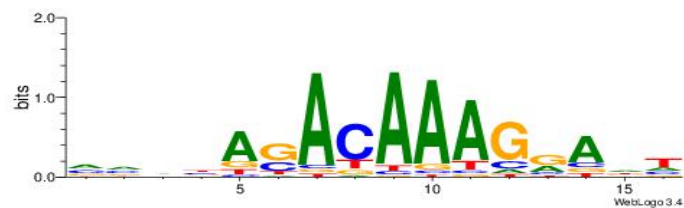
Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 15
 Similarity score: 0.0374729

Alignment:

HDTMCTTTGTSTVDBB
 TGRCCCTKTGHCKAB-

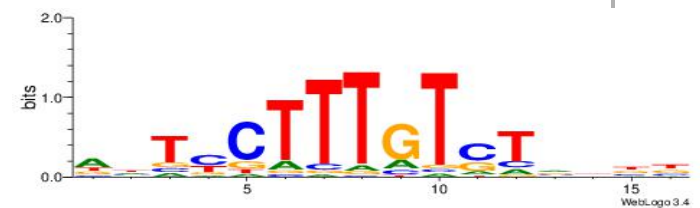
Original motif

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: Forward
 Position number: 2

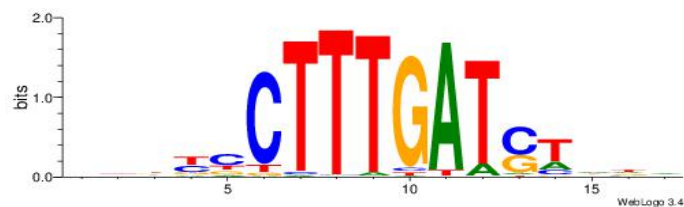
Number of overlap: 15
Similarity score: 0.0379757

Alignment:

BDDASATCAAAGGMDDD
-BTRGGDCARAGGKCA-

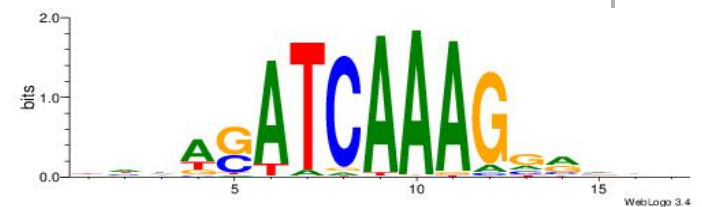
Original motif

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

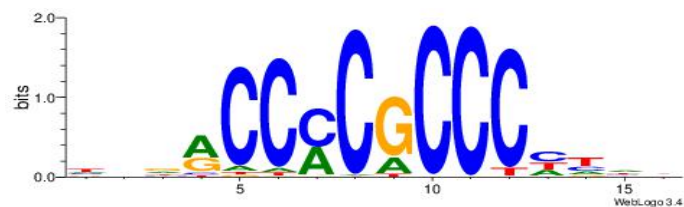
Alignment:

DHHDGGGCGRGGKHBH
BTRGGDCARAGGKCA-

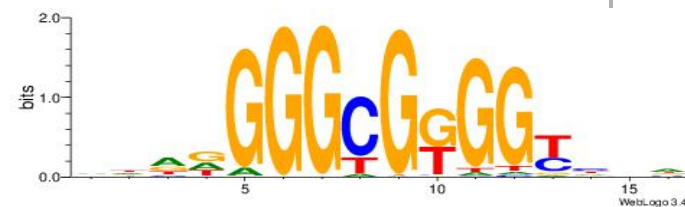
Original motif

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: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0397168

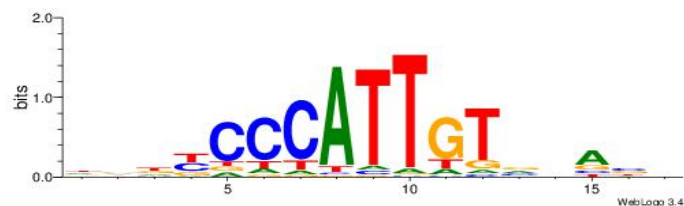
Alignment:

DDDYCCCATTGTVHABH

BTRGGDCARAGGKCA--

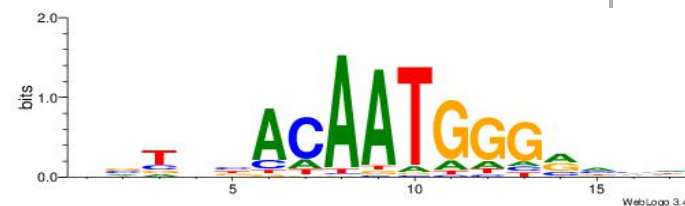
Original motif

Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif

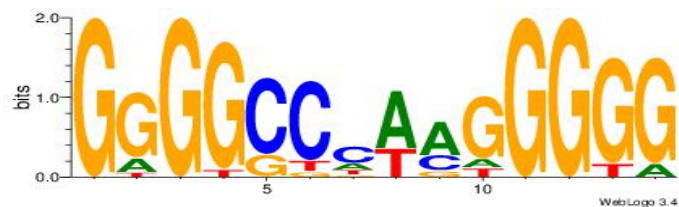
Consensus sequence: HBTHVACAATGGGMDHD



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

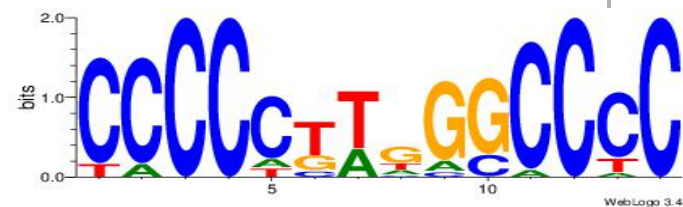
Original motif

Consensus sequence: GGGGCCCAAGGGGG



Reverse complement motif

Consensus sequence: CCCCCTTGGGCCCC



Best Matches for Motif ID 21 (Highest to Lowest)

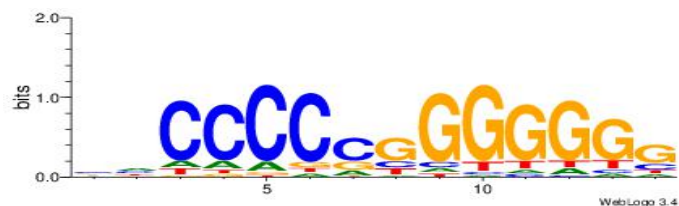
Motif ID:	UP00102
Motif name:	Zic1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0499525

Alignment:

```
CCCCCCCCGGGGGHB  
CCCCCTTGGGCCCC
```

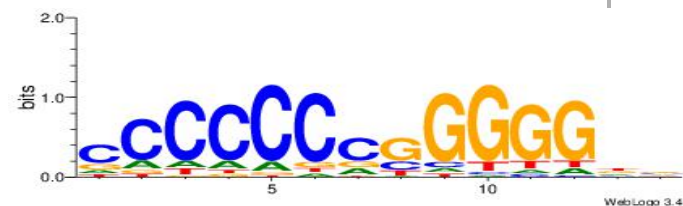
Original motif

Consensus sequence: BHCCCCGGGGGGG



Reverse complement motif

Consensus sequence: CCCCCCGGGGGHB



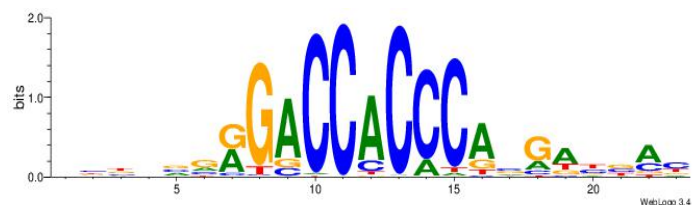
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0540613

Alignment:

BTBVTCTGGGTGGTCMVVDVBB
 -----CCCCCTGGGCCCC

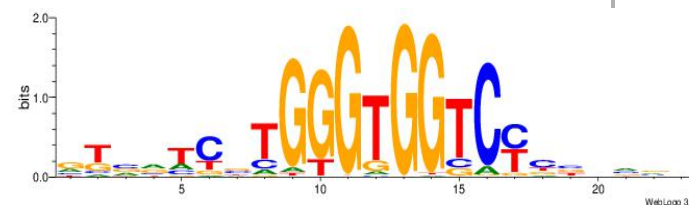
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTGGGTGGTCMVVDVBB



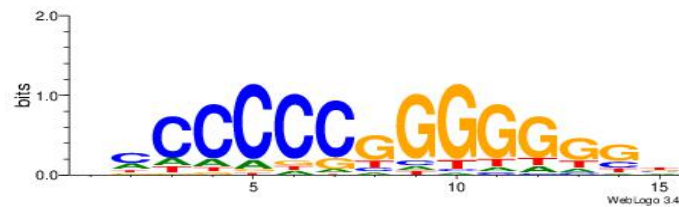
Motif ID: [UP00057](#)
 Motif name: Zic2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0548411

Alignment:

VCCCCCCCGGGGGRB
-CCCCCTTGGGCCCC

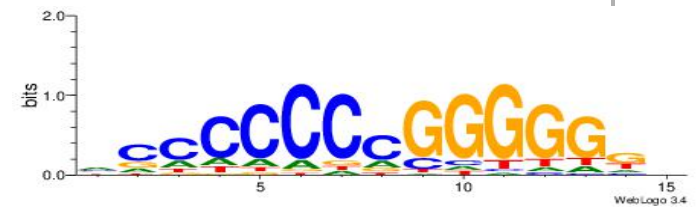
Original motif

Consensus sequence: BMCCCCCGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCCCGGGGGRB



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:

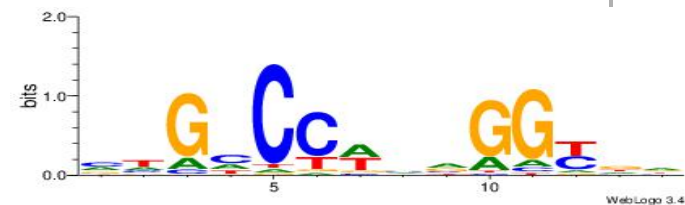
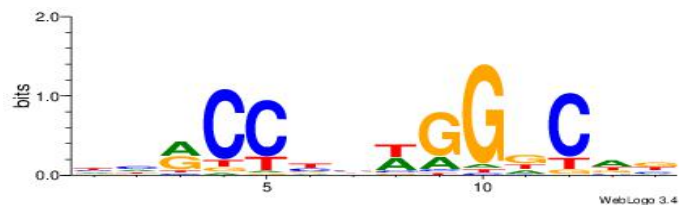
HHRCCBBWGGDCDB
GGGGCCCAAGGGG

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



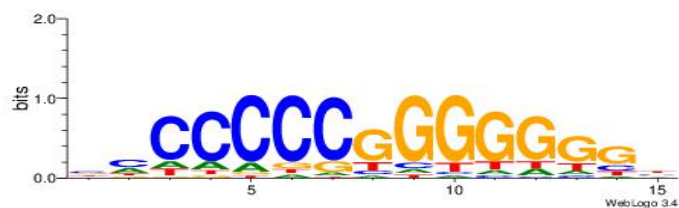
Motif ID: [UP00006](#)
 Motif name: Zic3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.056976

Alignment:

BMCCCCCGGGGGGB
 -CCCCCTTGGGCCCC

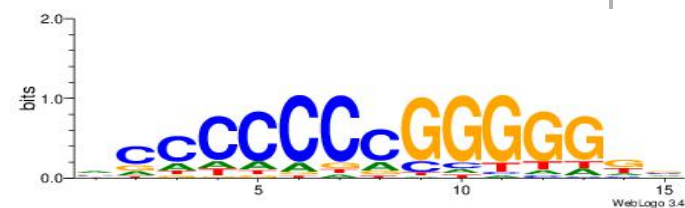
Original motif

Consensus sequence: BMCCCCCGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB



Motif ID: [UP00540](#)

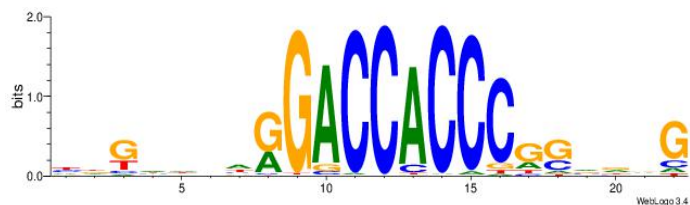
Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0573495

Alignment:

HDGHHBHRGACCACCCGSVDVG
 CCCCCTTGGGCCCC-----

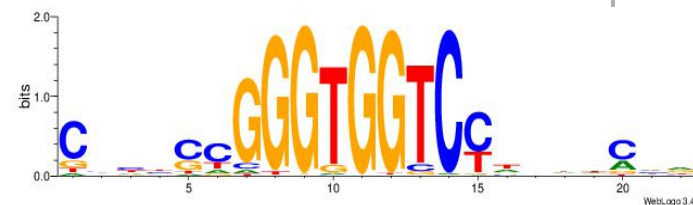
Original motif

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

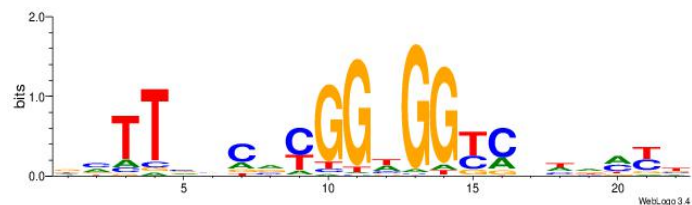
Similarity score: 0.0579022

Alignment:

VMYDHDGMCCHCCKBGVVAHVH
-----CCCCCTTGGGCCCC

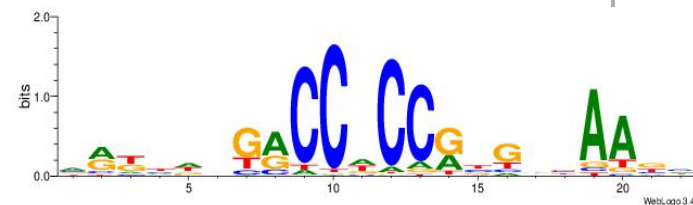
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAHVH



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:

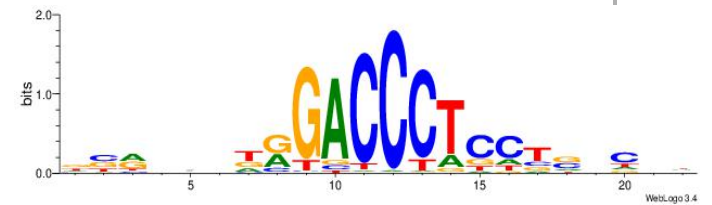
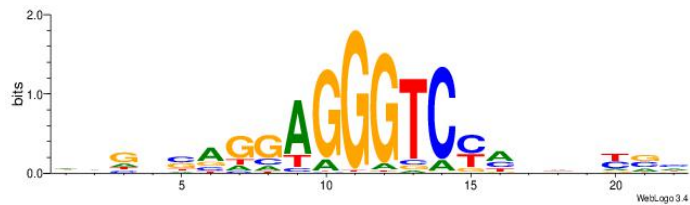
DVMHHDHKGACCCTCCTSVCBH
CCCCCTTGGGCCCC-----

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



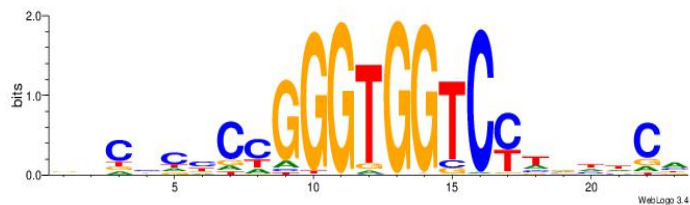
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0597453

Alignment:

HGDHVKHGACCAACCGGBGBGDB
 -----CCCCCTGGGCCCC

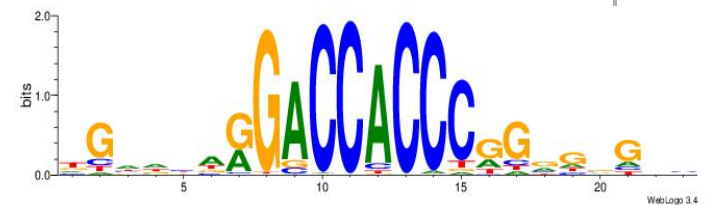
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCAACCGGBGBGDB



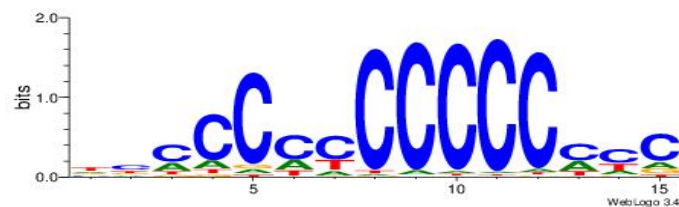
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0598088

Alignment:

DBCCCCCCCCCMYC
 -CCCCCTTGGGCCCC

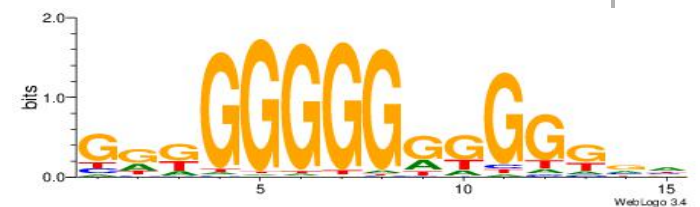
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



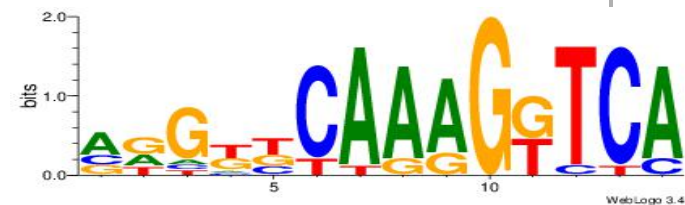
Dataset #: 2 Motif ID: 22 Motif name: NR2F1

Original motif

Consensus sequence: TGAMCTTTGMMCYT

Reverse complement motif

Consensus sequence: AKGYCAAAGRTCA



Best Matches for Motif ID 22 (Highest to Lowest)

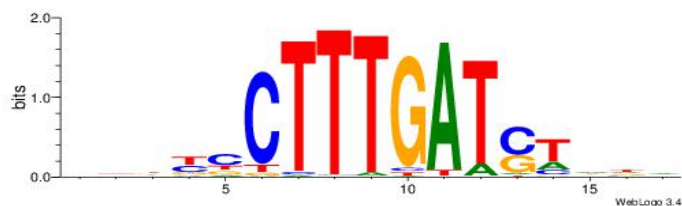
Motif ID: [UP00083](#)
 Motif name: Tcf7l2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0452364

Alignment:

DDDYCCTTTGATSTDDV
 -TGAMCTTTGMMCYT--

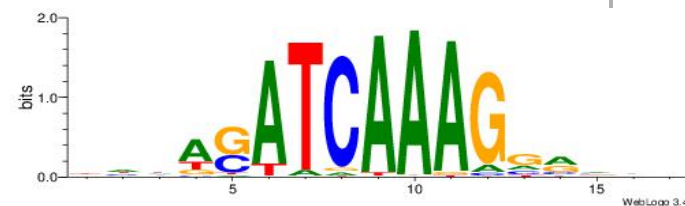
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDDD



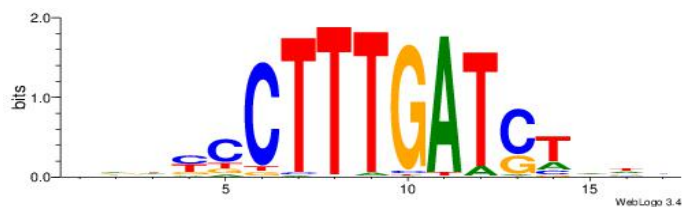
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0453449

Alignment:

VDDAGATCAAAGGKDDD
 --AKGY YCAAAGRTCA--

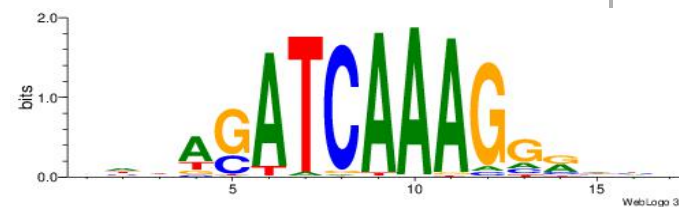
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



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

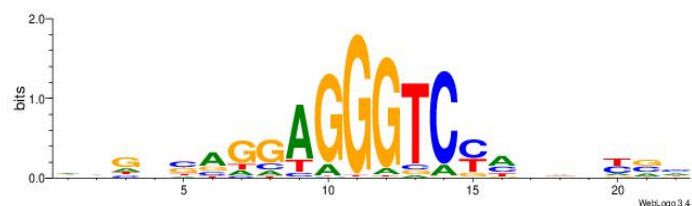
Number of overlap: 14
Similarity score: 0.0461358

Alignment:

DVMHHDHKGACCCTCCTSVCBH
-----TGAMCTTTGMMCYT-

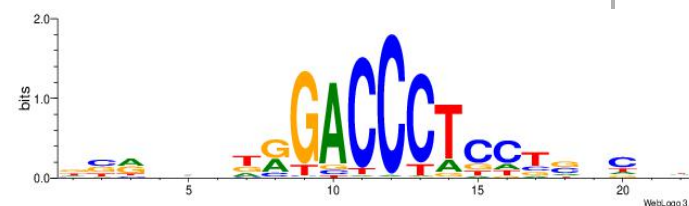
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00054](#)
Motif name: Tcf7_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0461768

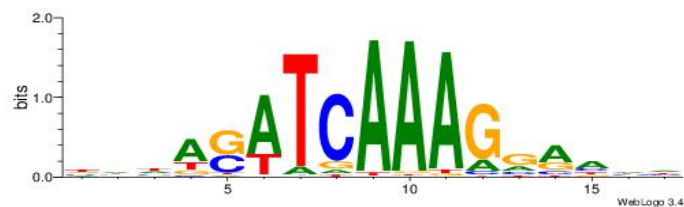
Alignment:

BHHASATCAAAGGAHHH
--AKGYCAAAGRTCA-

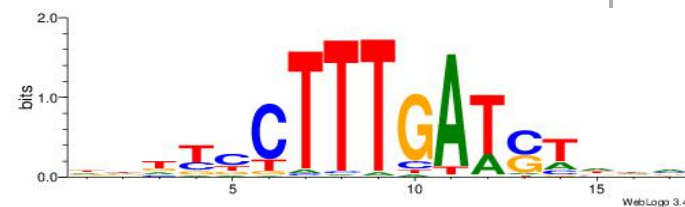
Original motif

Reverse complement motif

Consensus sequence: BHHASATCAAAGGAHHH



Consensus sequence: HHHTCCTTTGATSTHHV



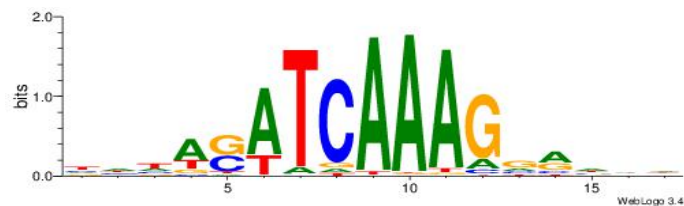
Motif ID: [UP00058](#)
Motif name: Tcf3_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0473628

Alignment:

HHHASATCAAAGVRHHH
--AKGYCAAAGRTCA--

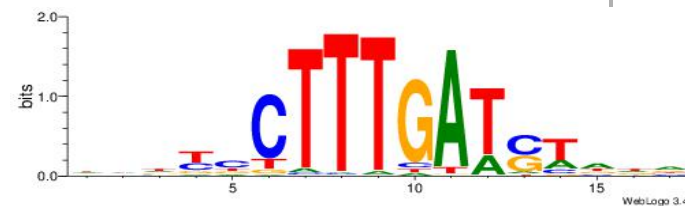
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



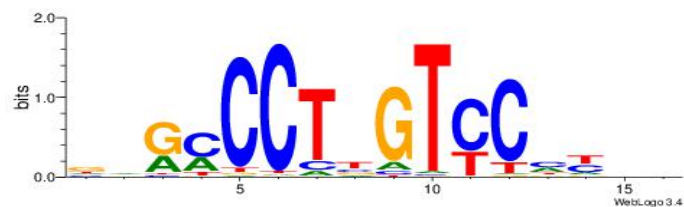
Motif ID: [UP00082](#)
 Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0480188

Alignment:

DDGMCCTBGTCCHYHV
 TGAMCTTTGMMCYT--

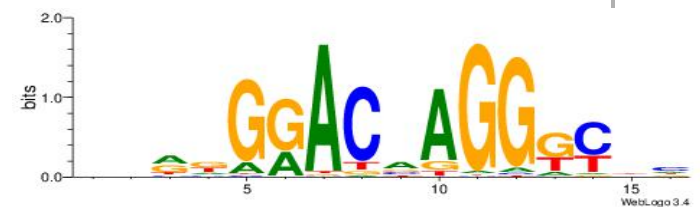
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH

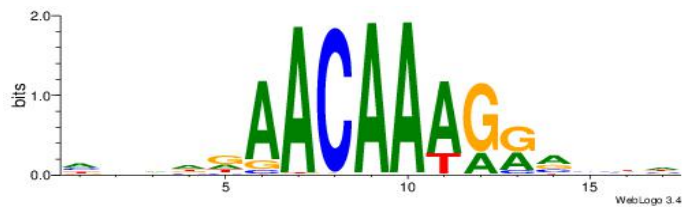


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2

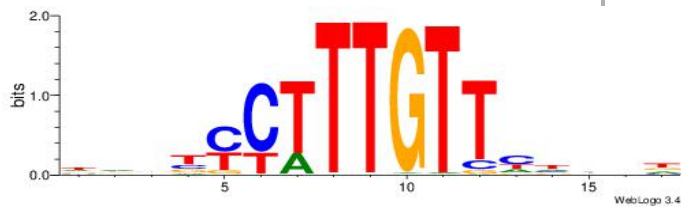
Number of overlap: 14
Similarity score: 0.0495447

Alignment:
HHBBMCTTTGTTTHDDBH
-TGAMCTTTGMMCYT--

Original motif
Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif
Consensus sequence: HHBBMCTTTGTTTHDDBH



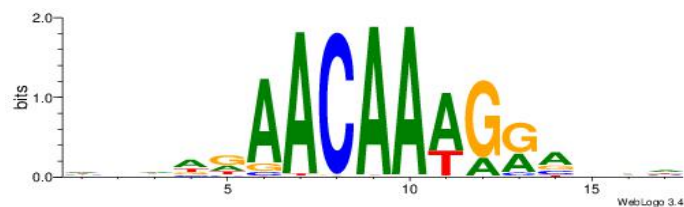
Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0499033

Alignment:
HHBTMCTTTGTTMDDVH
-TGAMCTTTGMMCYT--

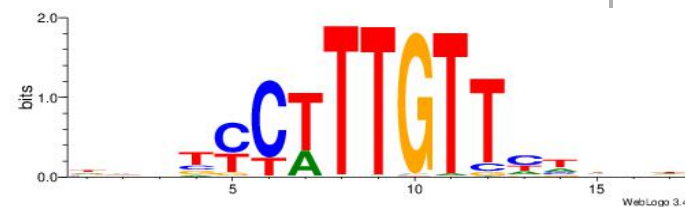
Original motif

Reverse complement motif

Consensus sequence: HBDDRAACAAAGRABHH



Consensus sequence: HHBTMCTTTGTTMDDVH



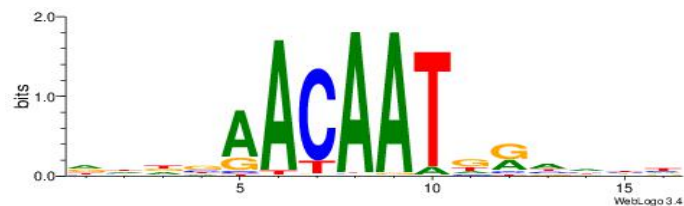
Motif ID: [UP00023](#)
Motif name: Sox30_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0511534

Alignment:

DHDBAACAATDRHHHH
--TGAMCTTTGMMCCT

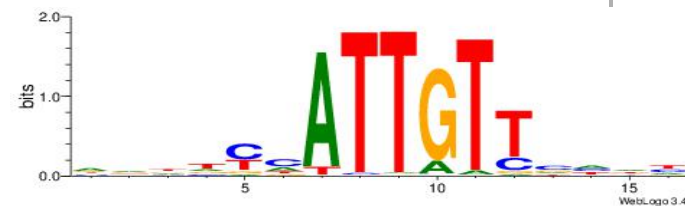
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



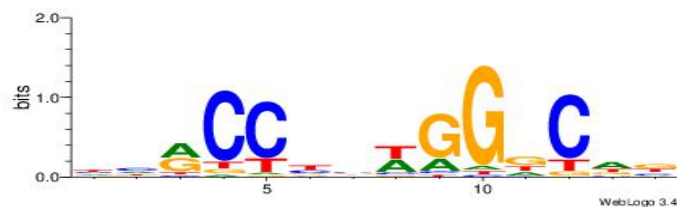
Motif ID: [UP000005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0516973

Alignment:

BDGHCCWBVGKDH
 AKGY YCAAAGRTCA

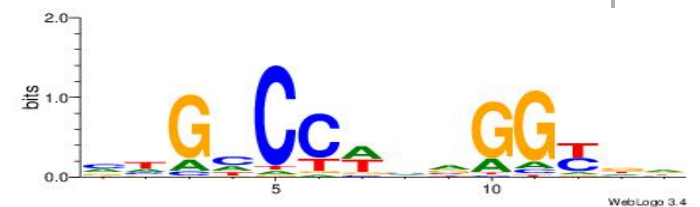
Original motif

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)

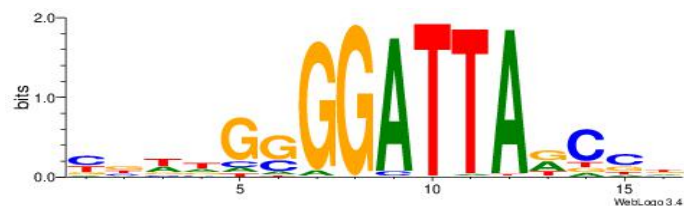
Motif ID: [UP00176](#)
 Motif name: Crx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0

Alignment:

DGGMTAATCCCCDWBK
 -----TCCCCV---

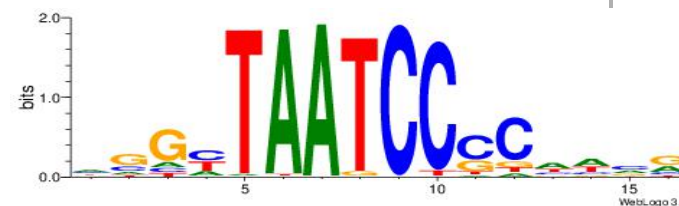
Original motif

Consensus sequence: YBWDGGGGATTARCCD



Reverse complement motif

Consensus sequence: DGGMTAATCCCCDWBK



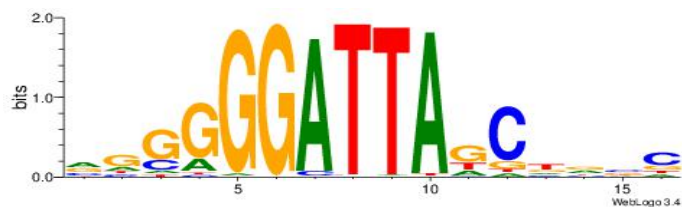
Motif ID: [UP00265](#)
 Motif name: Pitx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 6
 Similarity score: 0.00193291

Alignment:

GBHDGCTAATCCCCCB
 -----TCCCCV-

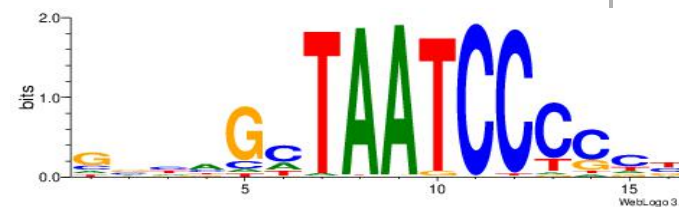
Original motif

Consensus sequence: VGGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



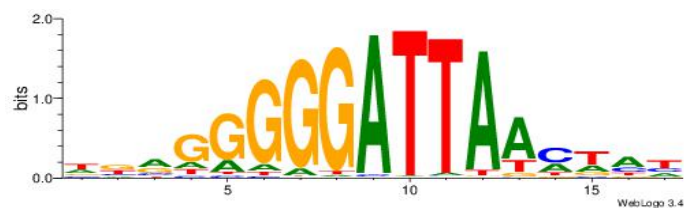
Motif ID: [UP00239](#)
 Motif name: Obox2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9

Number of overlap: 6
Similarity score: 0.00284735

Alignment:
HTARTTAATCCCCCKBD
-----TCCCV---

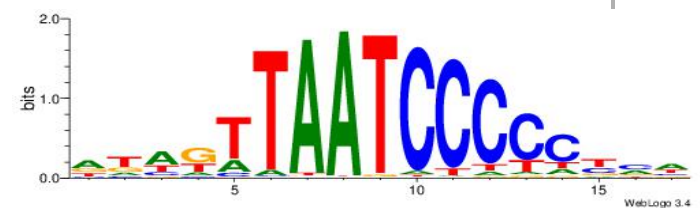
Original motif

Consensus sequence: DBRGGGGGATTAAMTAH



Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



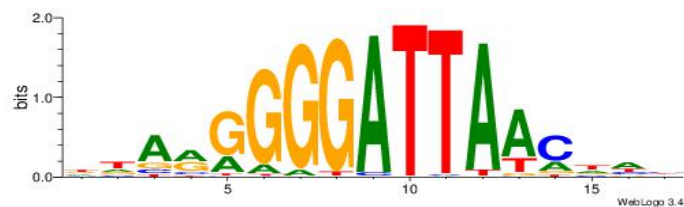
Motif ID: [UP00216](#)
Motif name: Obox1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 6
Similarity score: 0.00461976

Alignment:
DDARGGGGATTAACDHH
---BGGGA-----

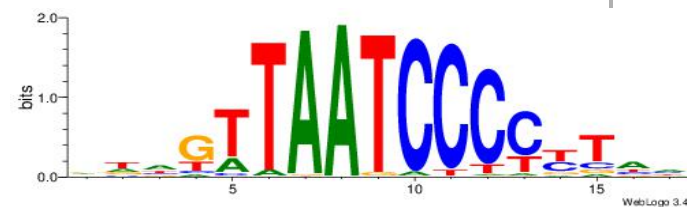
Original motif

Reverse complement motif

Consensus sequence: DDARGGGGATTAACDHH



Consensus sequence: DHDGTTAATCCCCCKTDD



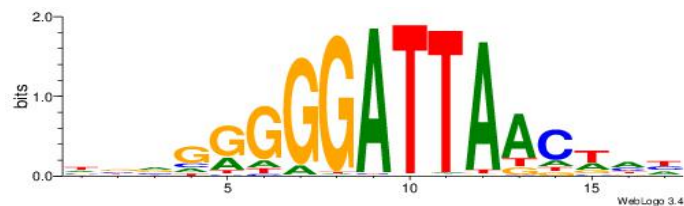
Motif ID: [UP00160](#)
Motif name: Obox3
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 6
Similarity score: 0.00641818

Alignment:

HHWGTTAATCCCCBBH
-----TCCCV----

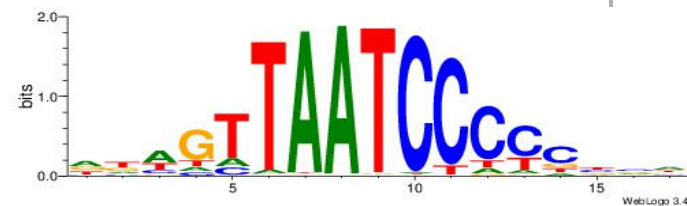
Original motif

Consensus sequence: HBVGGGGGATTAACWHH



Reverse complement motif

Consensus sequence: HHWGTTAATCCCCBBH



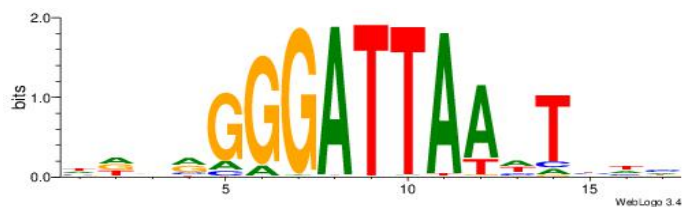
Motif ID: [UP00208](#)
 Motif name: Obox5_2284.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 10
 Number of overlap: 6
 Similarity score: 0.0110256

Alignment:

HDVRGGGATTAAHTHHH
 --BGGGGA-----

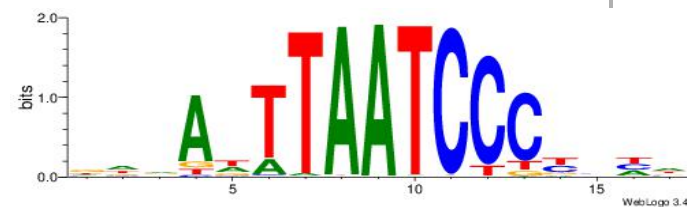
Original motif

Consensus sequence: HDVRGGGATTAAHTHHH



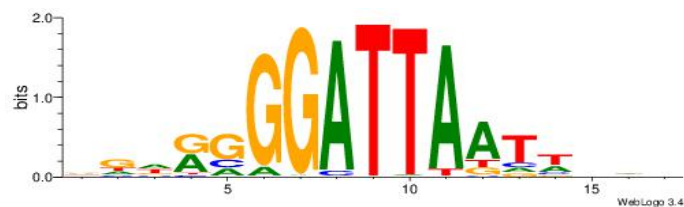
Reverse complement motif

Consensus sequence: DHHAHTTAATCCCKVDH

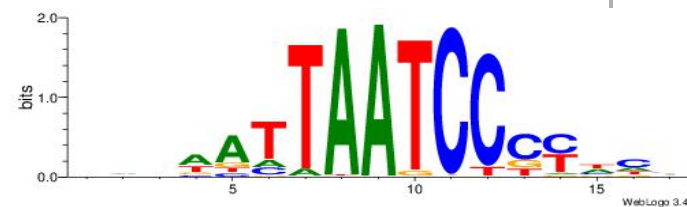


Motif ID: [UP00143](#)
 Motif name: Dobox5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3

Consensus sequence: DDRRGGGATTAATWHHB



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: Backward
Position number: 10
Number of overlap: 6
Similarity score: 0.016387

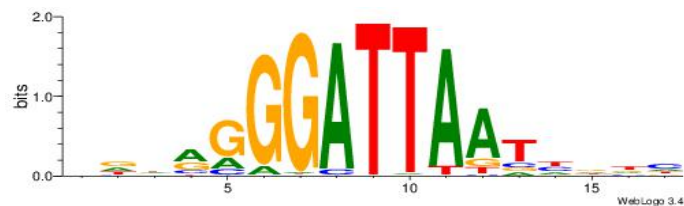
Alignment:

DDDRGGGATTAATHDDH

--BGGGGA-----

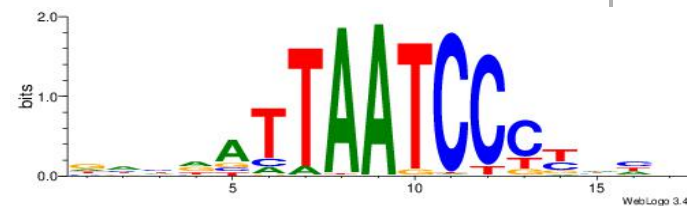
Original motif

Consensus sequence: DDRRGGGATTAATHDDH



Reverse complement motif

Consensus sequence: DDHHATTAATCCCKDHD



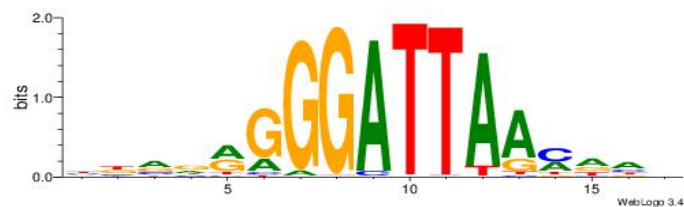
Motif ID: [UP00153](#)
 Motif name: Pitx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.0164951

Alignment:

HBVDRGGGATTAAMDHH
 ---BGGGA-----

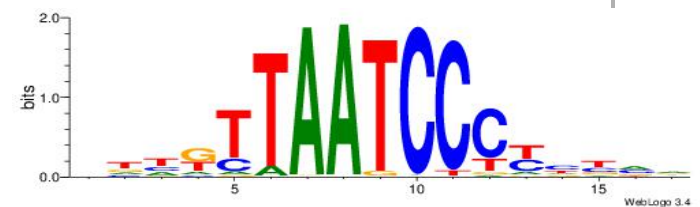
Original motif

Consensus sequence: HBVDRGGGATTAAMDHH



Reverse complement motif

Consensus sequence: HHDRTTAATCCCKHBVH



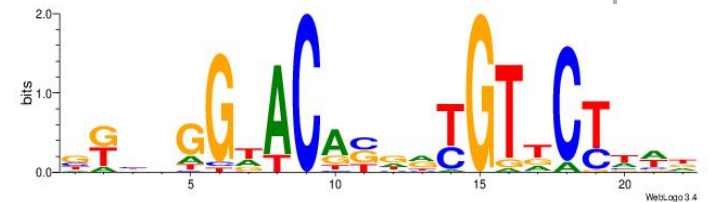
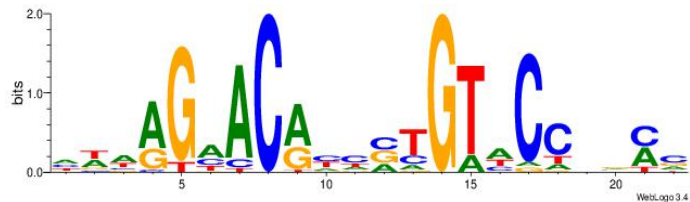
Dataset #: 2 Motif ID: 24 Motif name: Ar

Original motif

Consensus sequence: HWDAGHACRHHVTGTHCCHVMV

Reverse complement motif

Consensus sequence: VRVDGGHACAVDDKGTHTCTDWH



Best Matches for Motif ID 24 (Highest to Lowest)

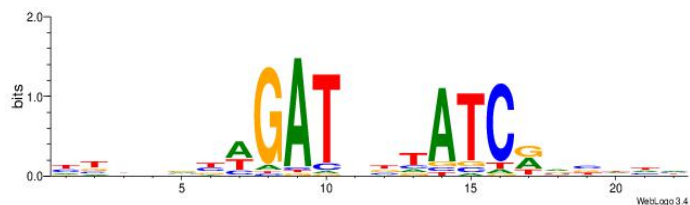
Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0676991

Alignment:

HBHDVBWGATHBTATCRVBHHH
 HWDAGHACRHHVTGTHCCHVMV

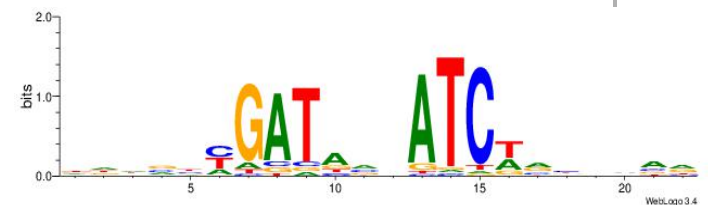
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



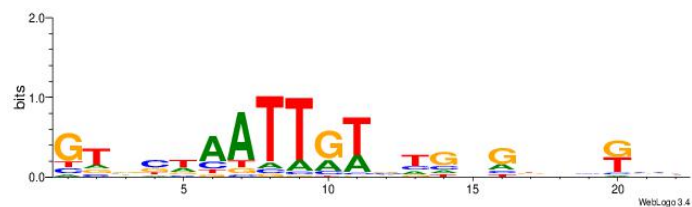
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0692146

Alignment:

VVYDDDCHCAVACAATTDBVAC
 VRVDGGHACAVDDKGTHCTDWH

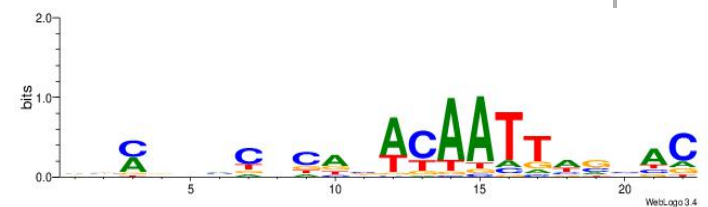
Original motif

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

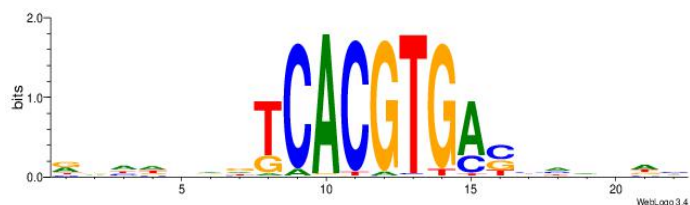
Alignment:

DDHBHBSTCACGTGAHBBDHHM

VRVDGGHACAVDDKGTHCTDWH

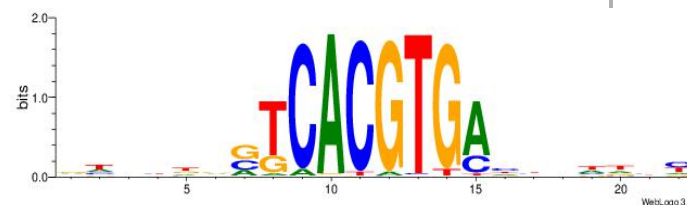
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



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

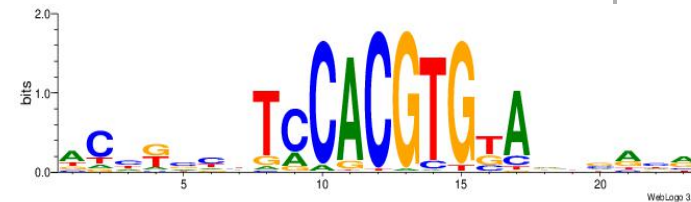
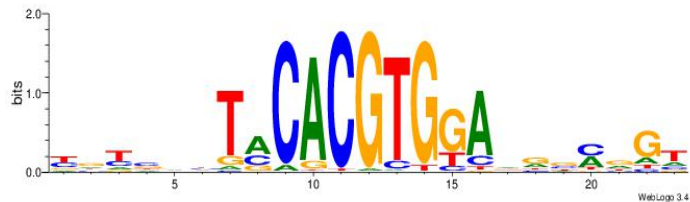
-HWDAGHACRHHVTGTHCCHVMV

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

Consensus sequence: ACHRBHTCCACGTGYAHHBMHM



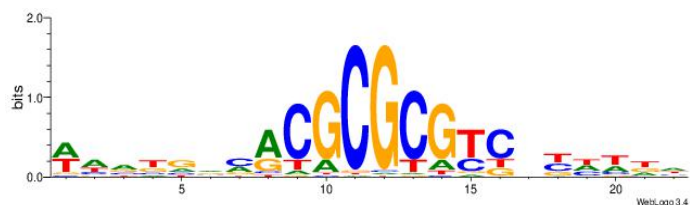
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0772045

Alignment:

WHVBVVMACGCGCGTCDYHWDH
 VRVDGGHACAVDDKGTHCTDWH

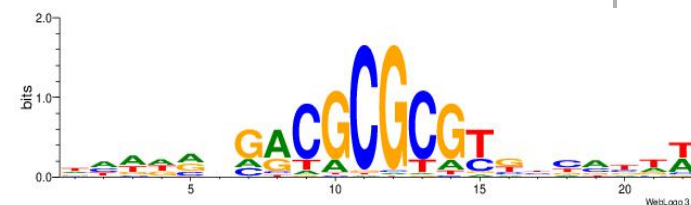
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00526](#)

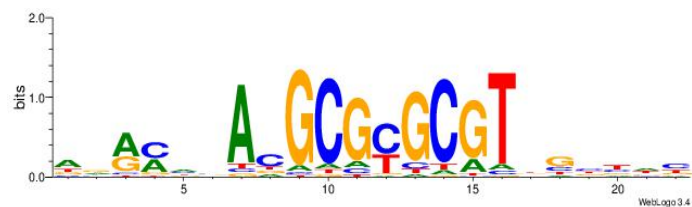
Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.077433

Alignment:

BDVBCDACGCKCGCGTBHRKHD
 VRVDGGHACAVDDKGTHCTDWH

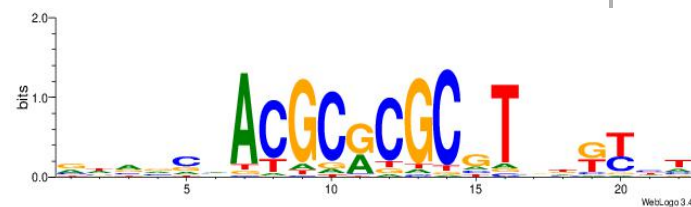
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



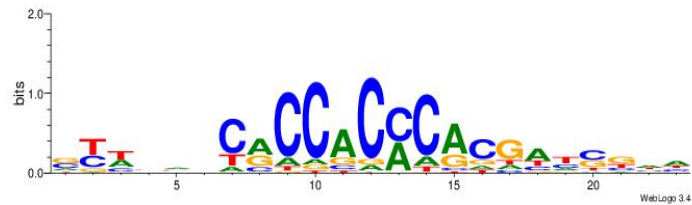
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0776897

Alignment:

VYWVVHCRCCACMCACGAHSBHH
-HWDAGHACRHHVTGTHCCHVMV

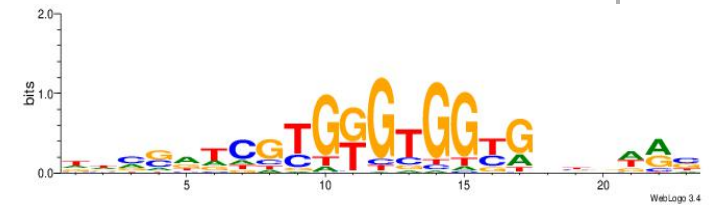
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGK GDBVWMV



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:

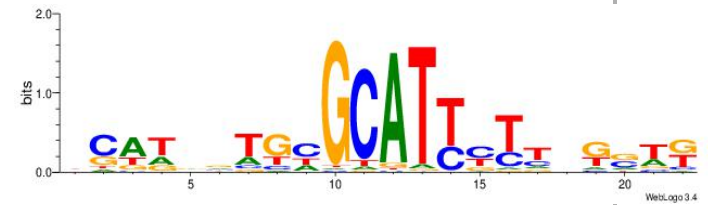
MWSMBAARRATGCD CABHATGD
HWDAGHACRHHVTGTHCCHVMV

Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD

Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR

[illegible]

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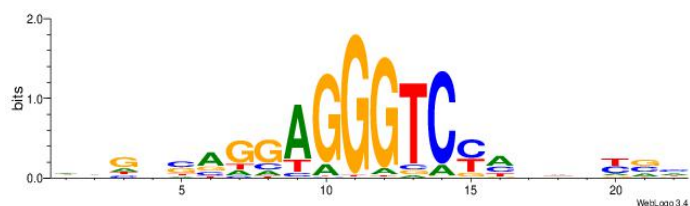
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 22
 Similarity score: 0.0799314

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
 HWDAGHACRHHVTGTHCCHVMV

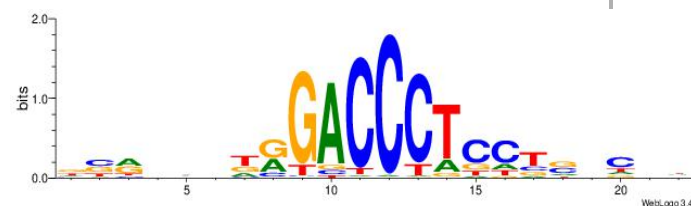
Original motif

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)

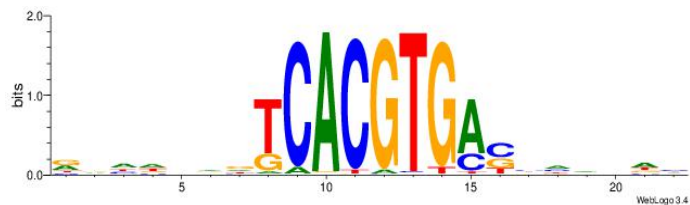
Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 6
Similarity score: 0

Alignment:

```
RDHDBVDTACAGTGASBHVHDH  
-----CACGTG-----
```

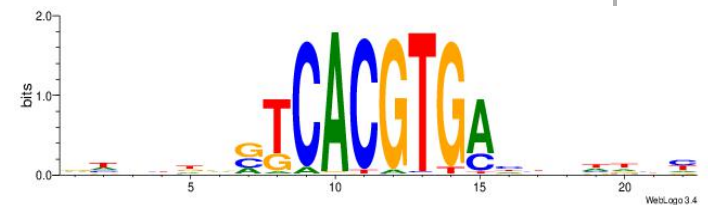
Original motif

Consensus sequence: RDHDBVDTACAGTGASBHVHDH



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:

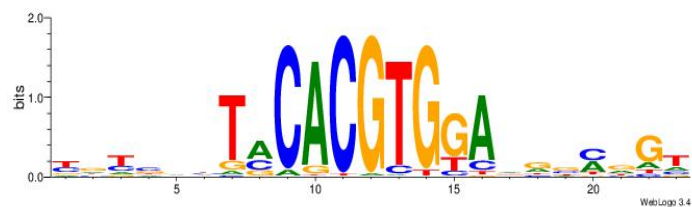
```

ACHRBHDTCCACGTGYAHBMMH
-----CACGTG-----

```

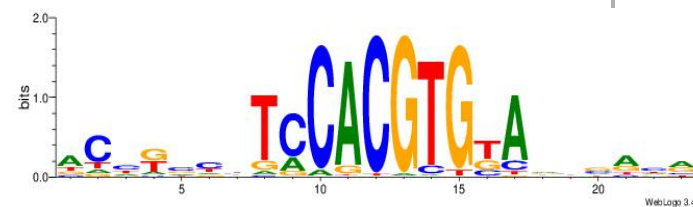
Original motif

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

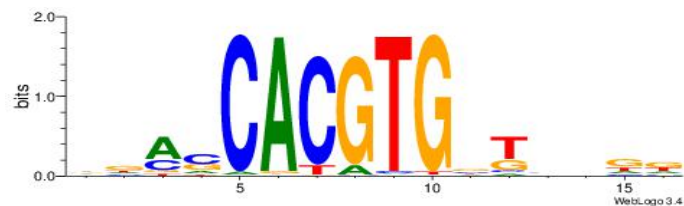
Alignment:

DDASCACGTGBTBVDD

-----CACGTG-----

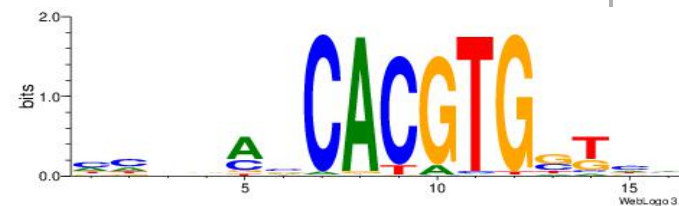
Original motif

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

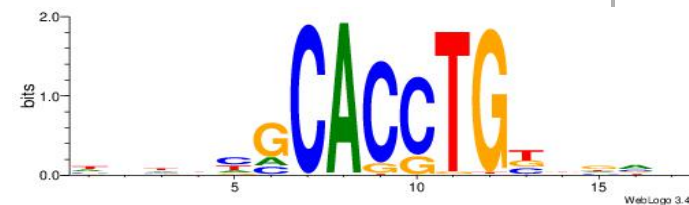
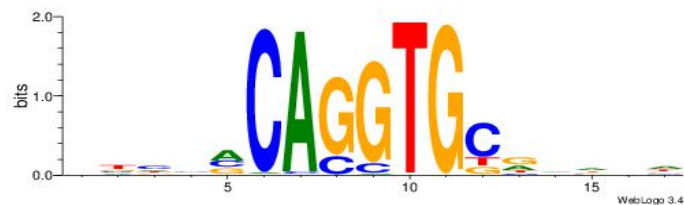
-----CACGTG-----

Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD

Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB

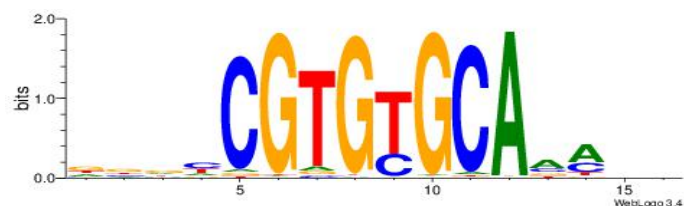


Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.0471928

Alignment:
 HDYTTGCACACGDHBH
 -----CACGTG--

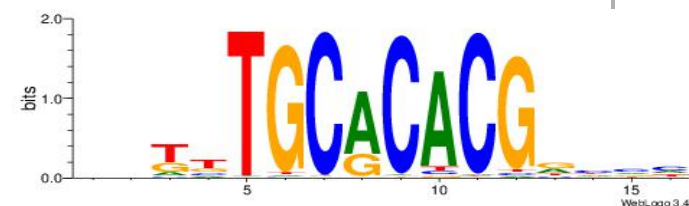
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



Motif ID: [UP00249](#)

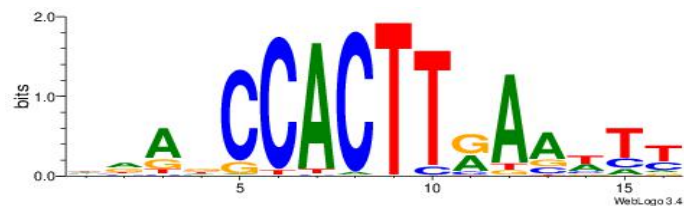
Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0482749

Alignment:

HDADCCACTTTRAAWTT
 -----CACGTG-----

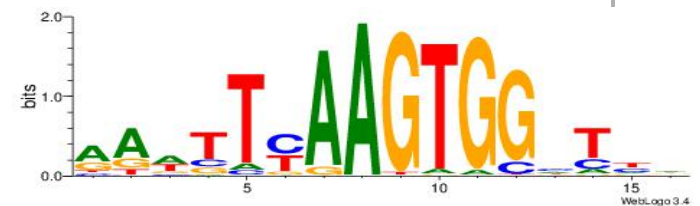
Original motif

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

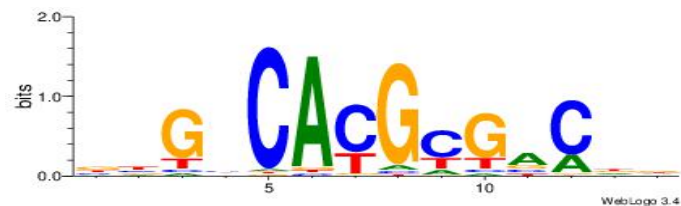
Alignment:

BBGHCACGCGACDD

-----CACGTG-----

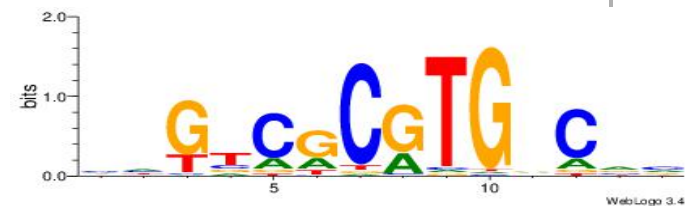
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



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

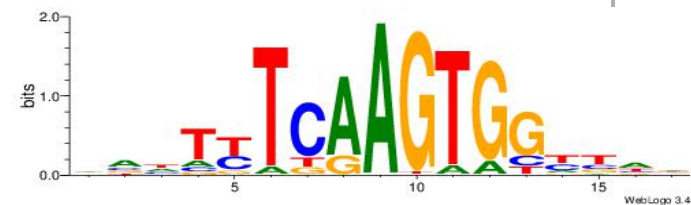
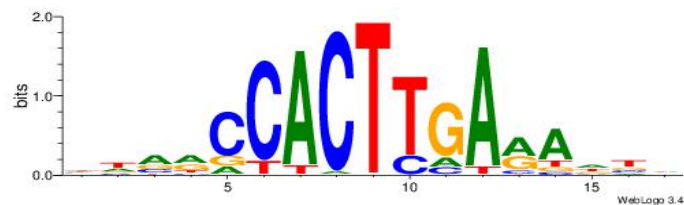
-----CACGTG-----

Original motif

Consensus sequence: HDVRCCAATTGARABD

Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH

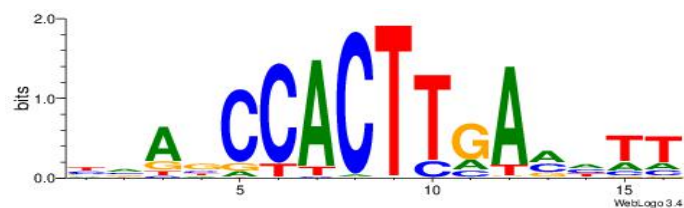


Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0498919

Alignment:
 AAHYTCAAGTGGBTBV
 -----CACGTG-----

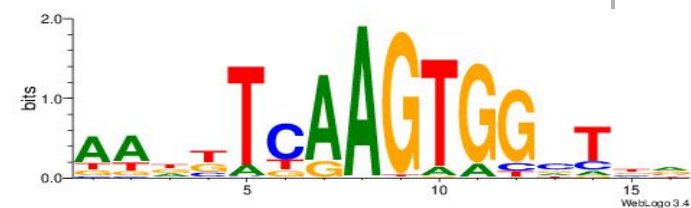
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



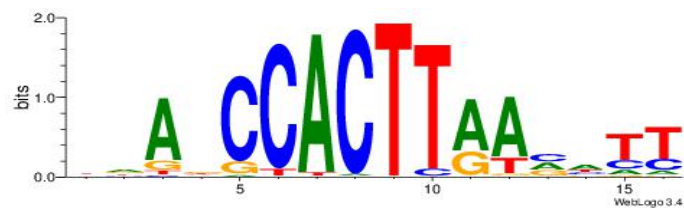
Motif ID: [UP00147](#)
 Motif name: Nkx2-6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0544601

Alignment:

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

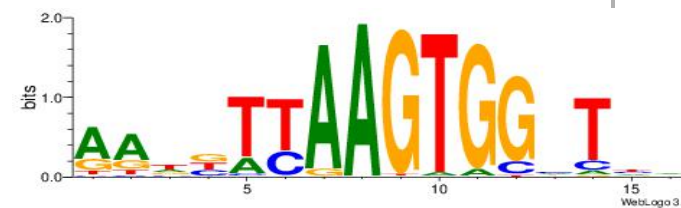
Original motif

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)

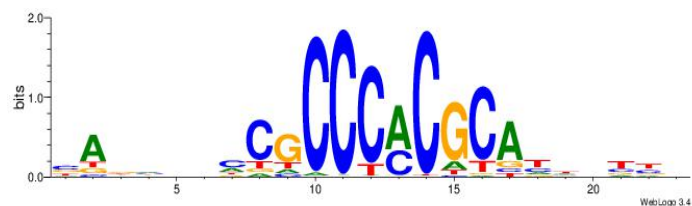
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0

Alignment:

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

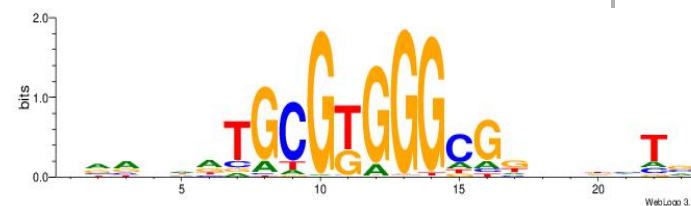
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



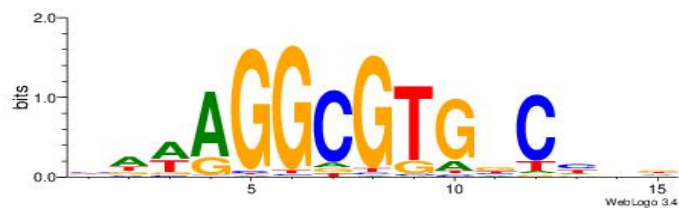
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

Alignment:

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

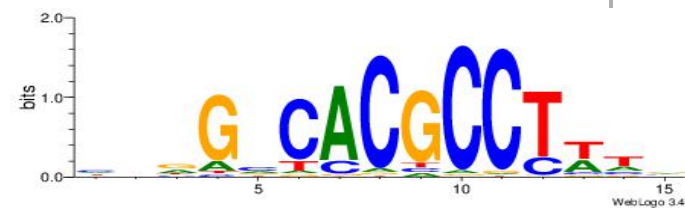
Original motif

Consensus sequence: BDWAGGCGTGCBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



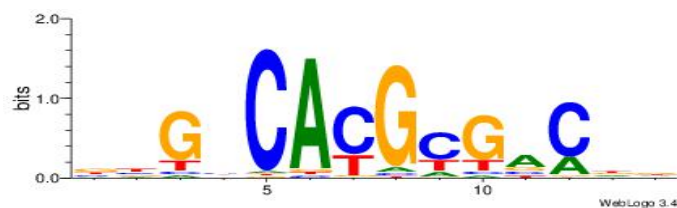
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

Number of overlap: 6
Similarity score: 0.00348048

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

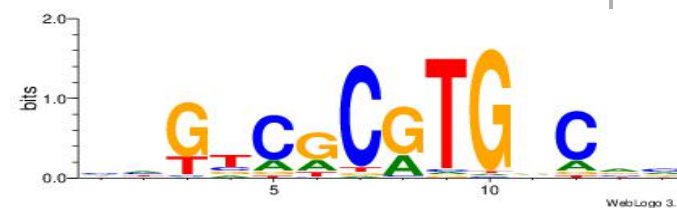
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



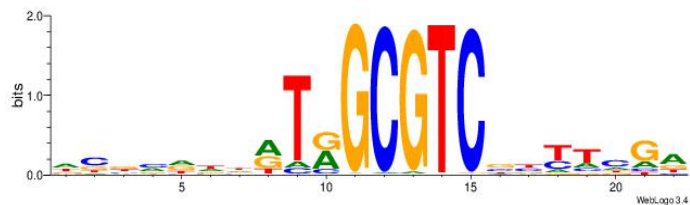
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 6
Similarity score: 0.00526158

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

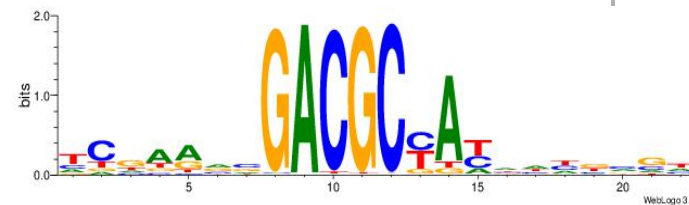
Original motif

Reverse complement motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Consensus sequence: TCDAMVBGACGCMAKDDDVBBDD



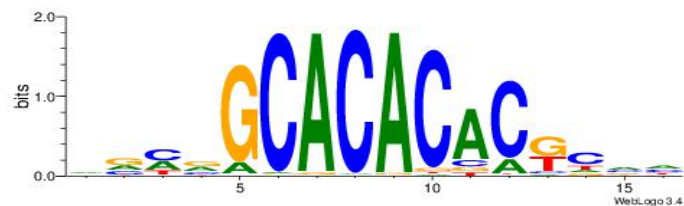
Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.00558171

Alignment:

HBGYGTGTGTGCVRVD
---YGCGTG-----

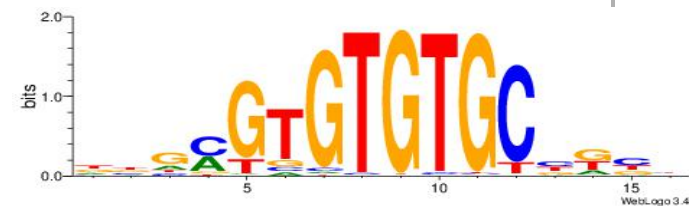
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

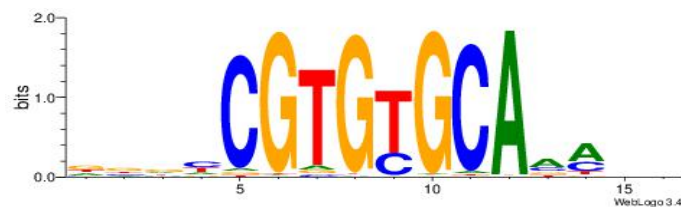


Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00702416

Alignment:
 HDYTTGCACACGDHBH
 -----CACGCM--

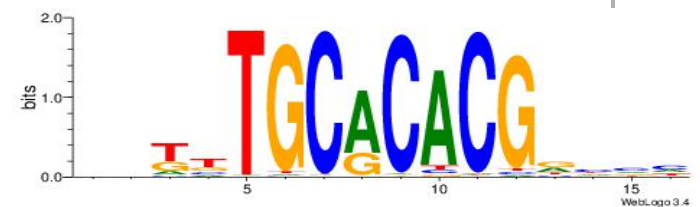
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



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

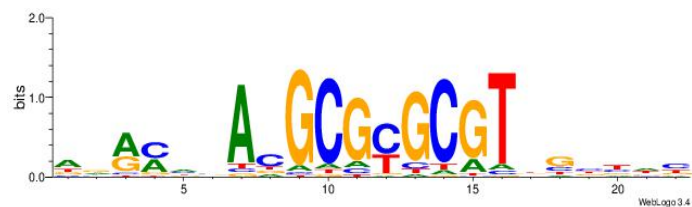
Number of overlap: 6
Similarity score: 0.0123233

Alignment:

DDRMHBACGCGYGC GTDGBBDB
-----YGCGTG-----

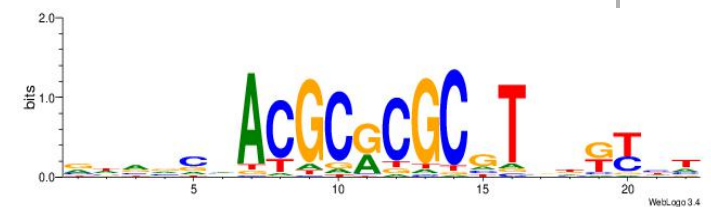
Original motif

Consensus sequence: DDRMHBACGCGYGC GTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGT BHRKHD



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

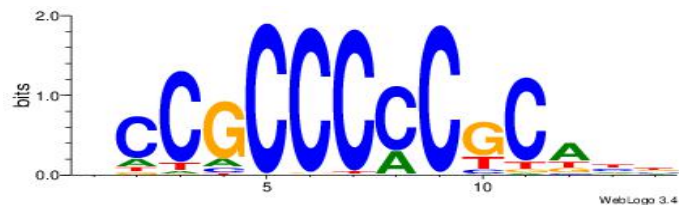
Alignment:

HCCGCCCCCGCAHB
-----CACGCM--

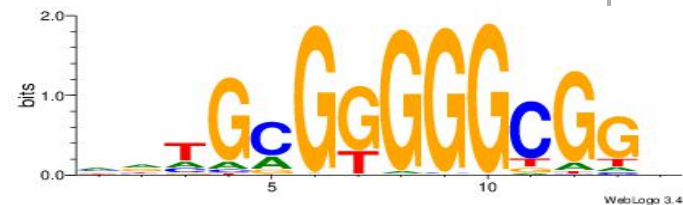
Original motif

Reverse complement motif

Consensus sequence: HCCGCCCCCGCAHB



Consensus sequence: VHTGCGGGGGCGGH



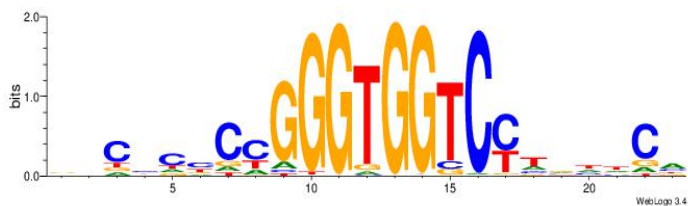
Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 6
Similarity score: 0.0144485

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
-----YGCGTG-----

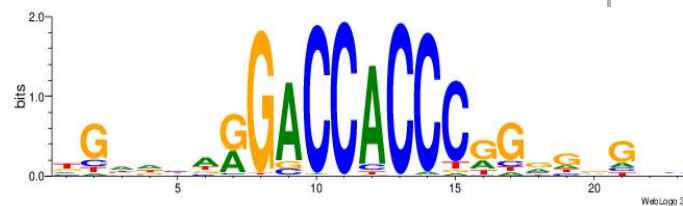
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVVHKGACCACCCGGBGBGDB



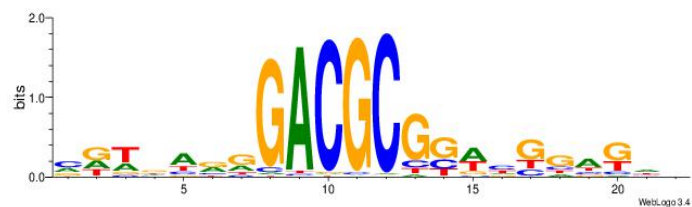
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0172109

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 -----YGCGTG-----

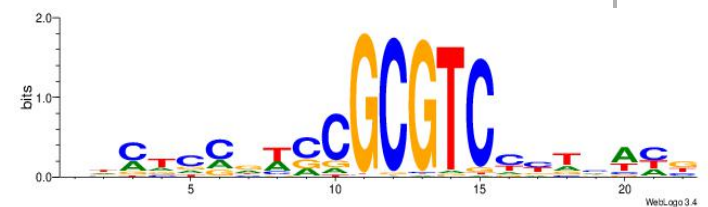
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



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



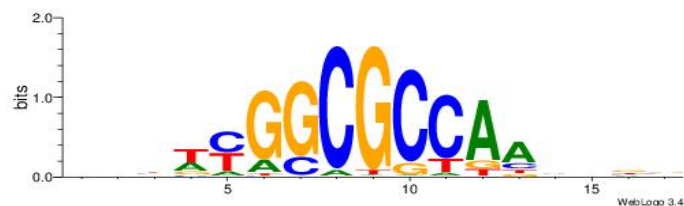
Best Matches for Motif ID 27 (Highest to Lowest)

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-----

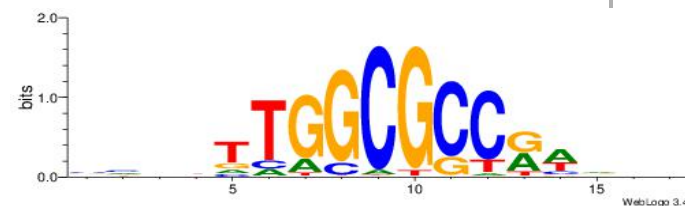
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD



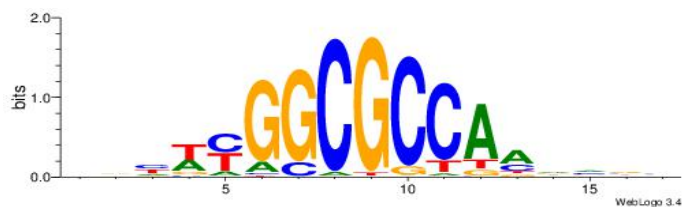
Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00182028

Alignment:

HBHWYGGCGCCAMDVB
 -----GCGCSAAA---

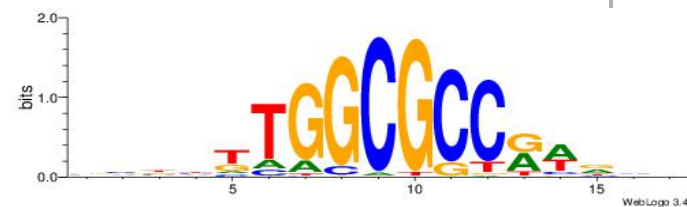
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD



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

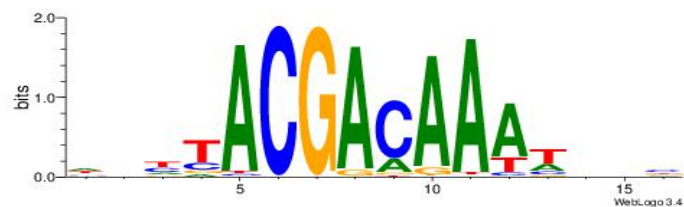
Number of overlap: 8
Similarity score: 0.0237639

Alignment:

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

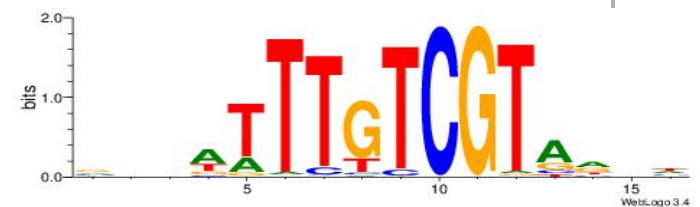
Original motif

Consensus sequence: DDHTACGACAAWDDDB



Reverse complement motif

Consensus sequence: BHDWTTTGTTCGTAHDD



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

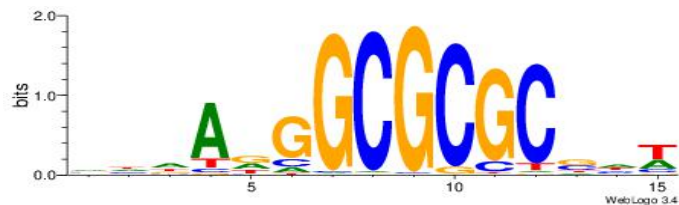
Alignment:

WHS GCGCGCCHTDHB
-----GCGCSAAA--

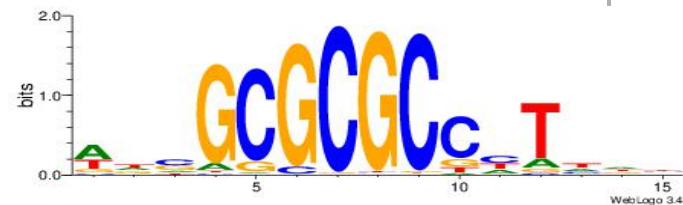
Original motif

Reverse complement motif

Consensus sequence: VHDADGGCGCGCSHW



Consensus sequence: WHSGCGCGCCHTDHB



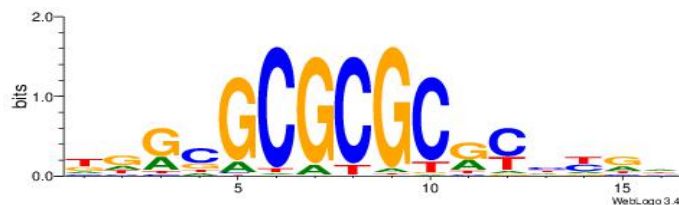
Motif ID: [UP00065](#)
Motif name: Zfp161_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.028109

Alignment:

```
DMMDGMGCGCGCGCHD  
-----GCGCSAAA
```

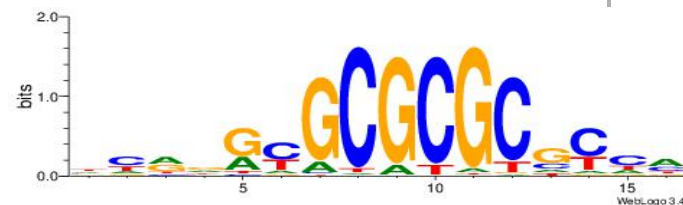
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



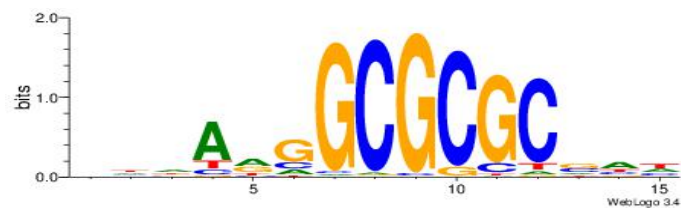
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0296302

Alignment:

VHDARGGCGCGCVHH
 --TTTSGCGC-----

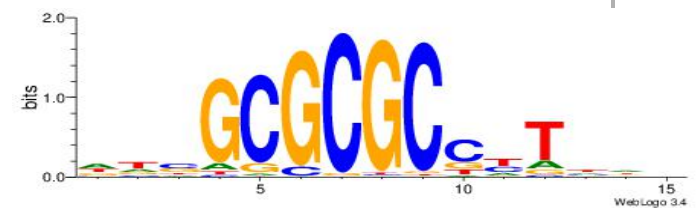
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCKTDHB



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

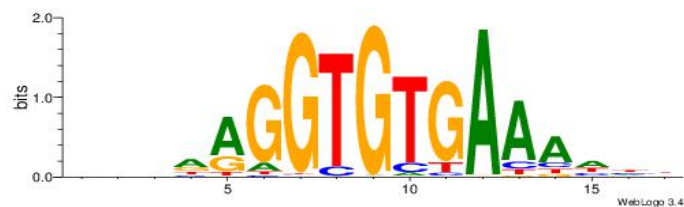
Number of overlap: 8
Similarity score: 0.0348969

Alignment:

BVHDAGGTGTGAAHHH
-----GCGCSAAA---

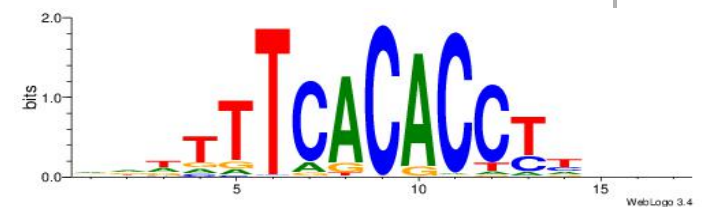
Original motif

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

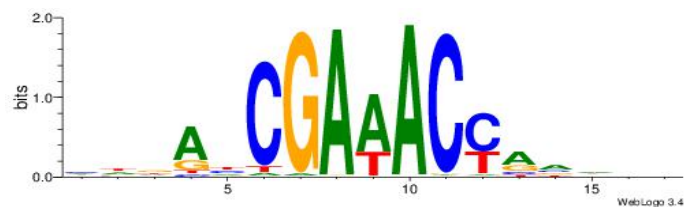
Alignment:

DHDBTKGTTTCGHTHDD
-----TTTSGCGC--

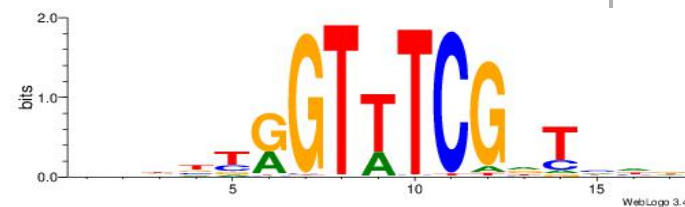
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD



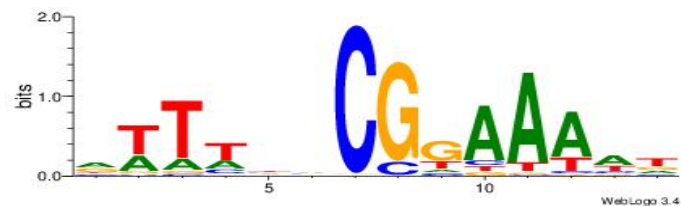
Motif ID: [UP00049](#)
Motif name: Sp100_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0383813

Alignment:

DWTTTCCGHHWAWD
-----GCGCSAAA--

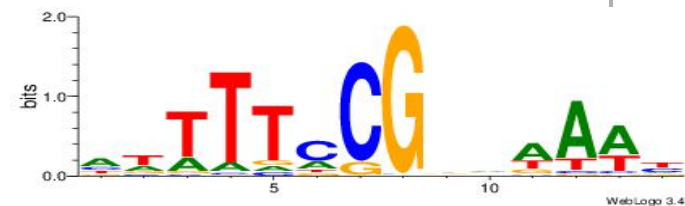
Original motif

Consensus sequence: DWTWHHCGGAAAWD



Reverse complement motif

Consensus sequence: DWTTTCCGHHWAWD



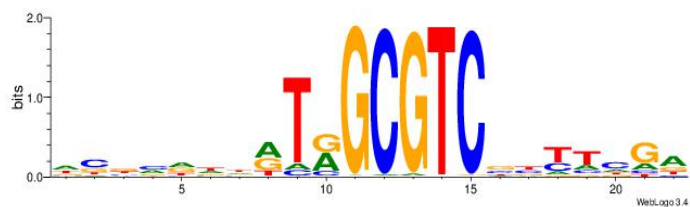
Motif ID: [UP00527](#)
 Motif name: Foxn4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0406002

Alignment:

TCDAMVBGACGCMKDDDVBBB
 -----GCGCSAAA-----

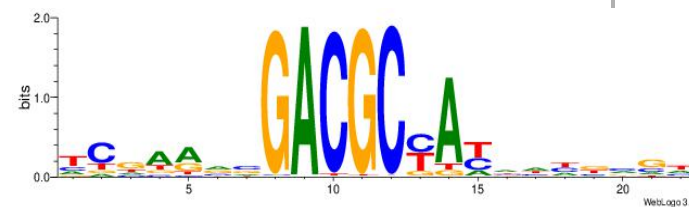
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBB



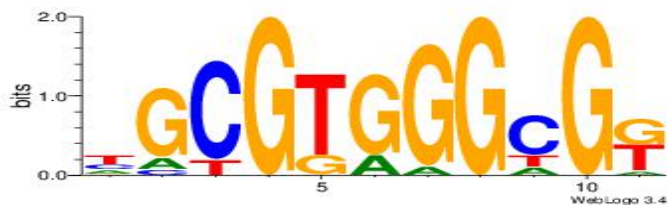
Dataset #: 2 Motif ID: 28 Motif name: Egr1

Original motif

Consensus sequence: HGCGTGGGCGK

Reverse complement motif

Consensus sequence: YCGCCACGCH



Best Matches for Motif ID 28 (Highest to Lowest)

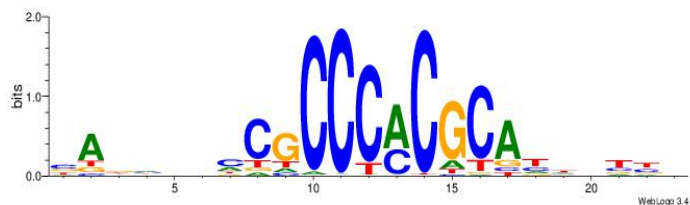
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0

Alignment:

VVVDHHTGCGYGGGCGDHHHTB
 -----HCGGTGGGCGK-----

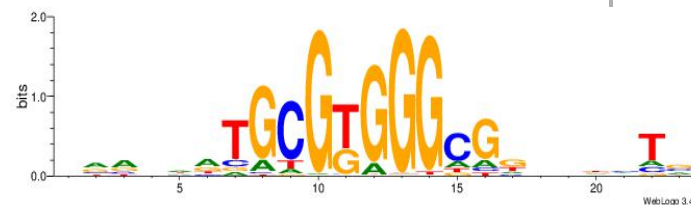
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHHTB



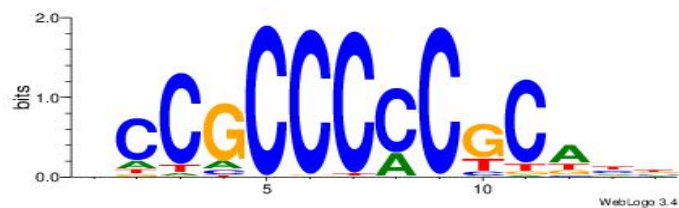
Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00727533

Alignment:

HCCGCCCCCGCAHB
 -YCGCCCACGCH--

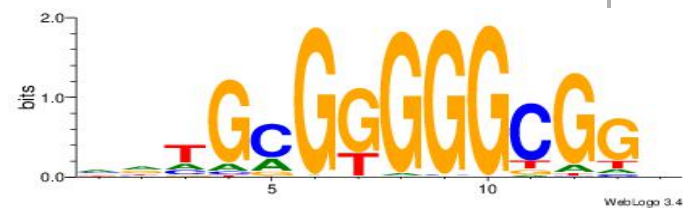
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH

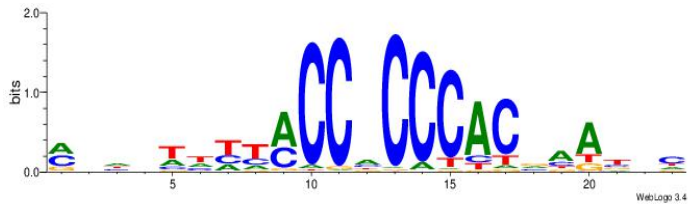


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

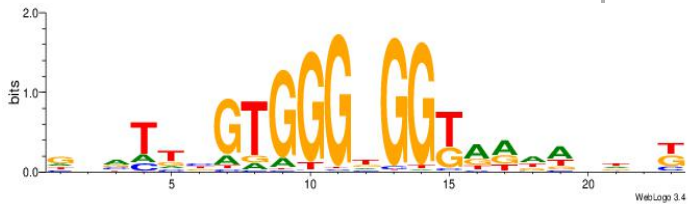
Number of overlap: 11
Similarity score: 0.0262579

Alignment:
MHHHWHYTMCCCHCCCACVAABVH
-----YCGCCCACGCH----

Original motif
Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif
Consensus sequence: DVTTVTGTTGGGHGGYAMHWHHHY



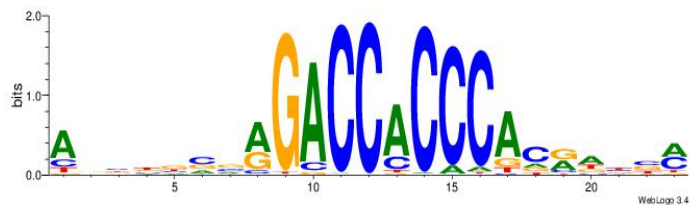
Motif ID: [UP00540](#)
Motif name: Gli3_v015681_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0297053

Alignment:
YBVDMSGTGGGTGGTCKVVBVBBT
--HCGGTGGGCGK-----

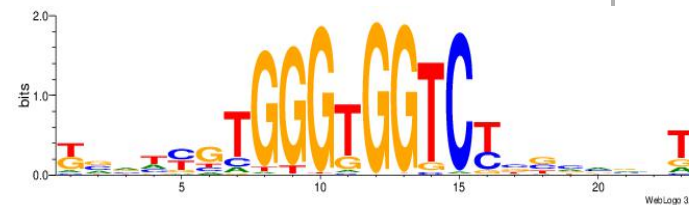
Original motif

Reverse complement motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Consensus sequence: YBVDMGTTGGGTGGTCKVVBVBBT



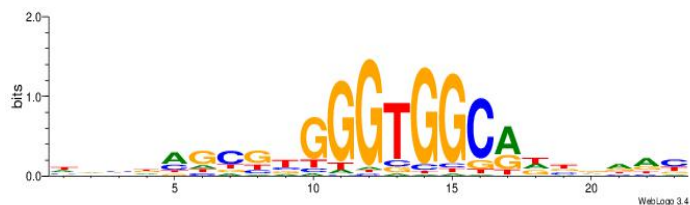
Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0318144

Alignment:

```
HVBDAGCGBGGGTGGCRDBDDDB  
-----HGC GTGGGCGK-----
```

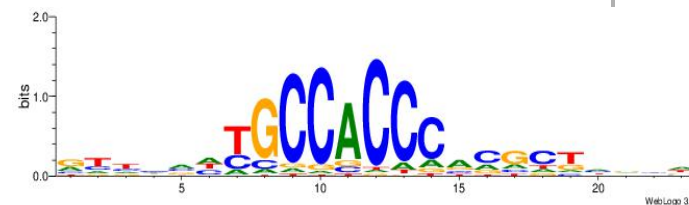
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHV DKGCCACCCVCGCTDBVH



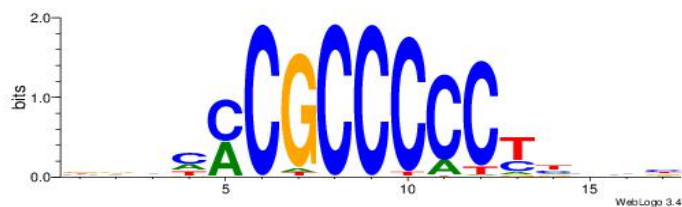
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0345009

Alignment:

BVVHAGGGGGCGRDHBB
 --HCGGTGGGCGK----

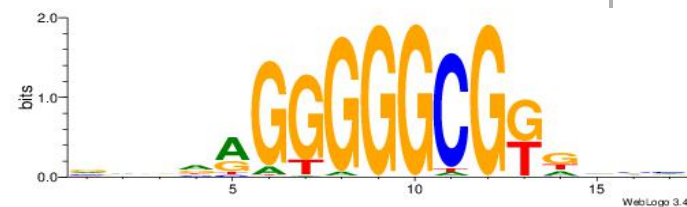
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



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

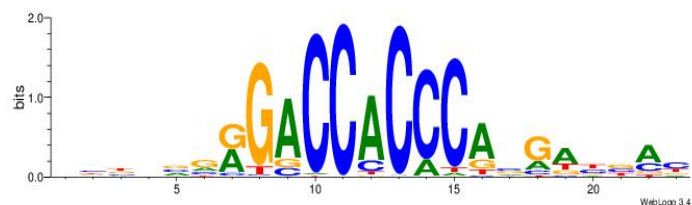
Number of overlap: 11
Similarity score: 0.0353502

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
---HCGTGCGGCGK-----

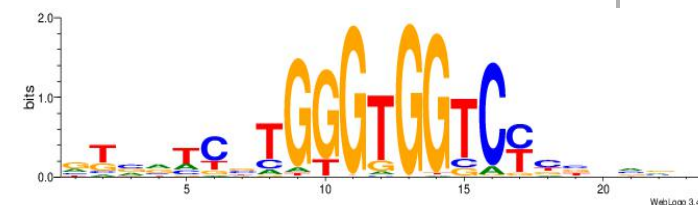
Original motif

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

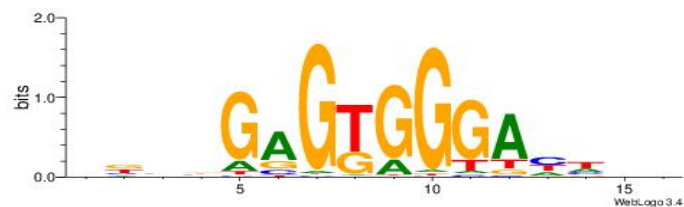
Alignment:

BHHDTCCTCACTCBDBV
--YCGCCACGCH---

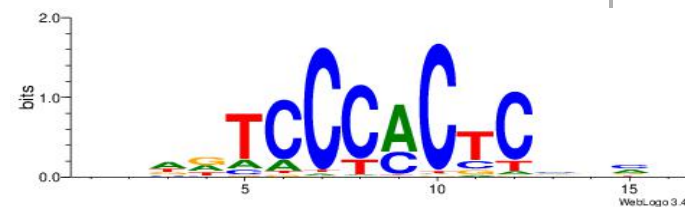
Original motif

Reverse complement motif

Consensus sequence: BBHBGAGTGGGAHHDB



Consensus sequence: BHHTCCCCACTCBDBV



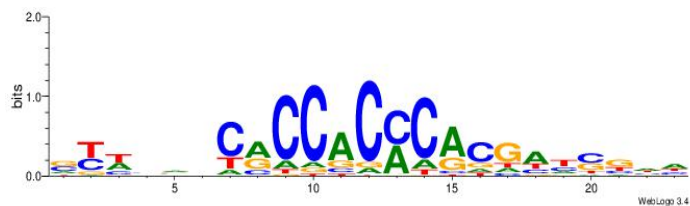
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0362743

Alignment:

VYWVVHCRCCACMCACGAHSBHH
-----YCGCCACGCH-----

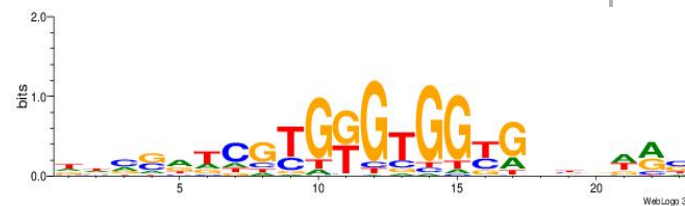
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



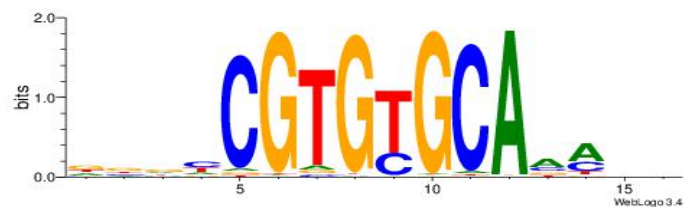
Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0386944

Alignment:

HDYTTGCACACGDHBH
 ---YCGCCCACGCH--

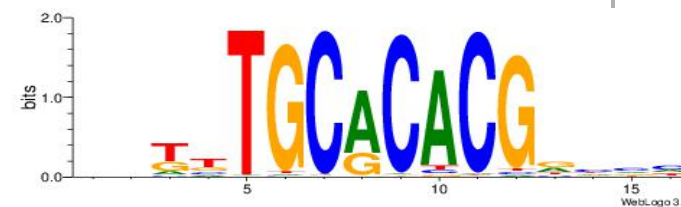
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



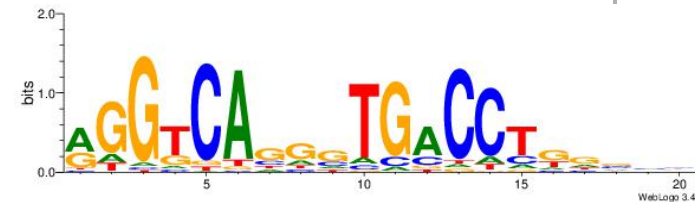
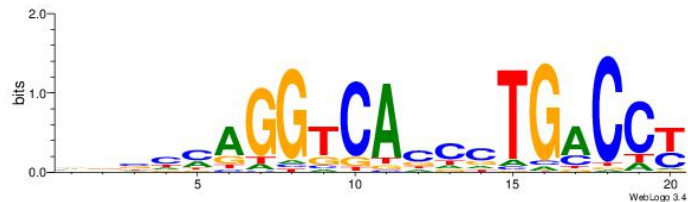
Dataset #: 2 Motif ID: 29 Motif name: ESR1

Original motif

Consensus sequence: VDBHMAGGTCACCCTGACCY

Reverse complement motif

Consensus sequence: MGGTCAGGGTGACCTRDBHV



Best Matches for Motif ID 29 (Highest to Lowest)

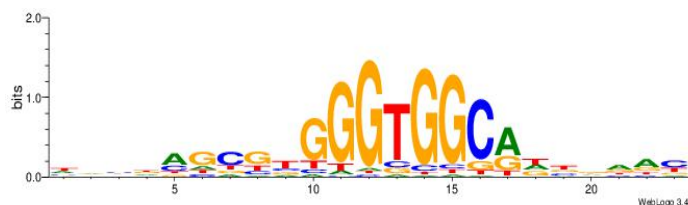
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0658405

Alignment:

BDDHVDKGCCACCCVCGCTDBVH
 VDBHMAGGTCACCCTGACCY----

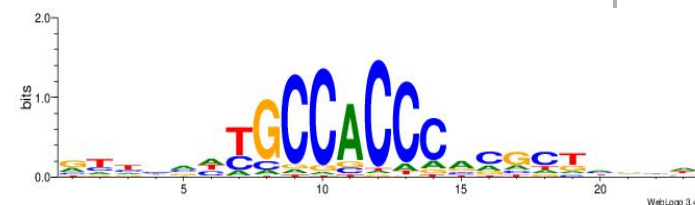
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



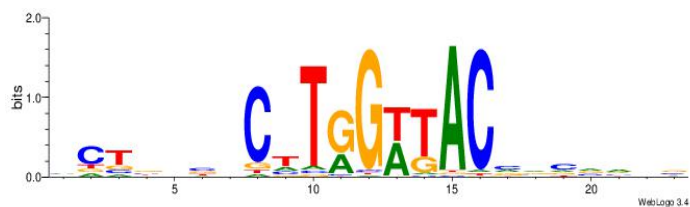
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0689748

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
 VDBHMAGGTCACCCTGACCY---

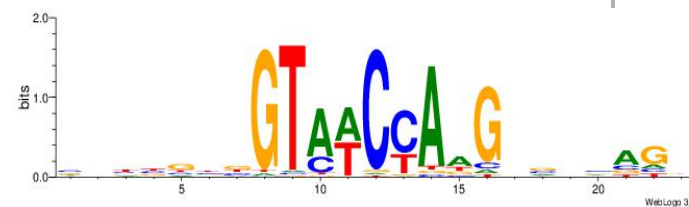
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB

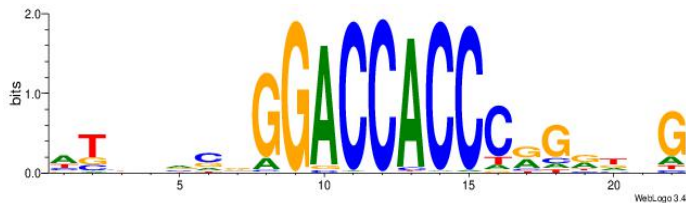


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3

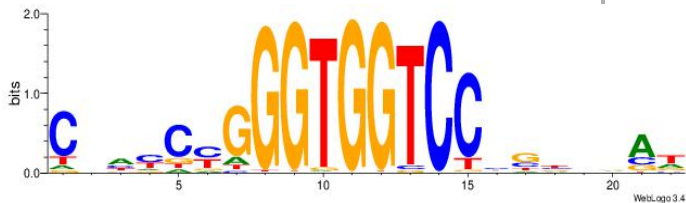
Number of overlap: 20
Similarity score: 0.0701247

Alignment:
CBDMCMGGGTGGTCCHVBVBAH
MGGTCAGGGTGACCTRDBHV--

Original motif
Consensus sequence: HTBVVDGGACCACCCRGRDBG



Reverse complement motif
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



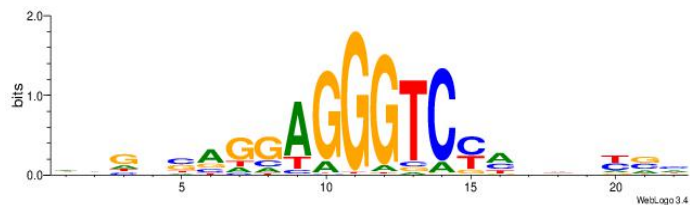
Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0711267

Alignment:
HVGVSAGGAGGGTCYHHHHYVH
MGGTCAGGGTGACCTRDBHV--

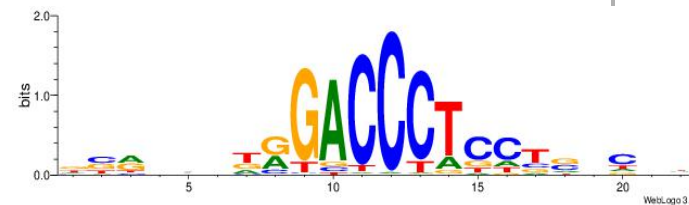
Original motif

Reverse complement motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

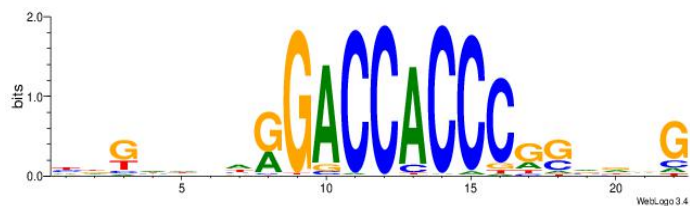


Motif ID: [UP00540](#)
Motif name: Gli3_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 20
Similarity score: 0.0742427

Alignment:
CVHBSCGGGTGGTCMHVHHCDH
-VDBHMAGGTCACCCTGACCY-

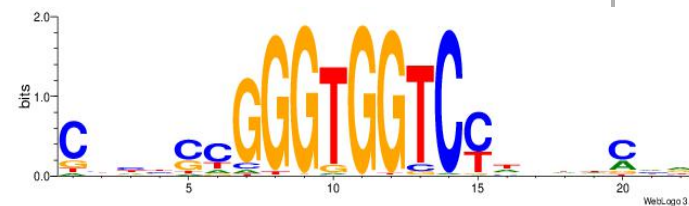
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



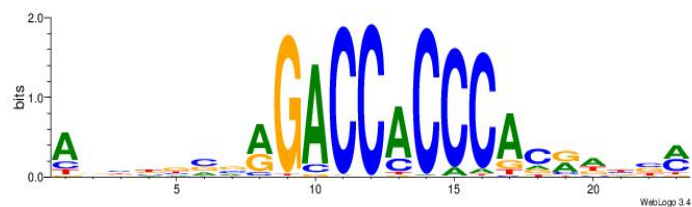
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0747053

Alignment:

ABBBBVVRGACCACCCACRDBBM
 --VDBHMAGGTCACCCTGACCY-

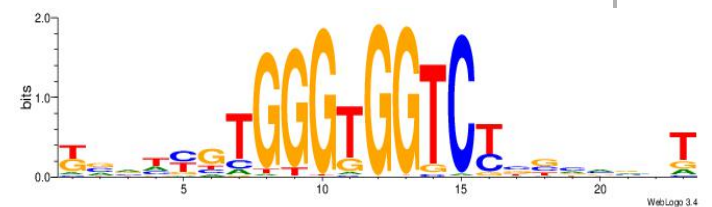
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT

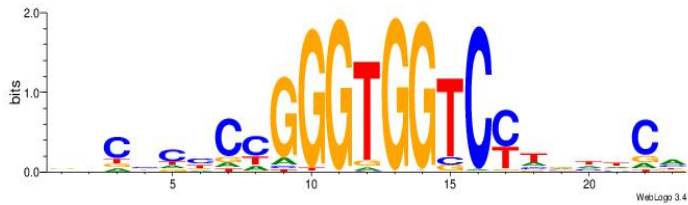


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4

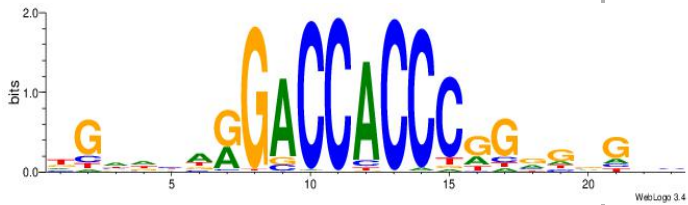
Number of overlap: 20
Similarity score: 0.0749165

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
---VDBHMAGGTCACCCTGACCY

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

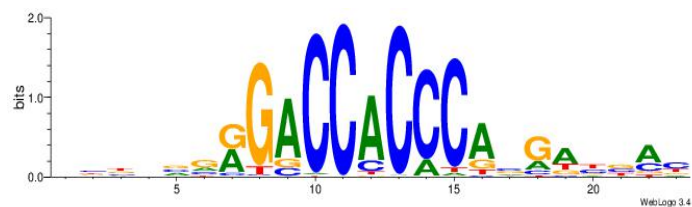


Motif ID: [UP00538](#)
Motif name: Gli1_v015681_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 20
Similarity score: 0.0759307

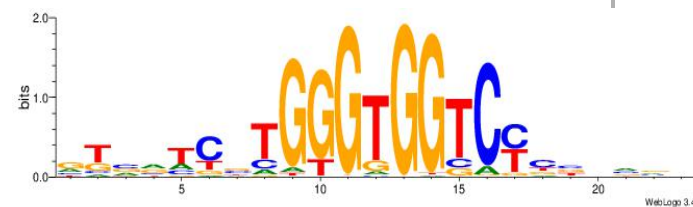
Alignment:
BBBDVVRGACCACCAVGABBAB
-VDBHMAGGTCACCCTGACCY--

Original motif
Reverse complement motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



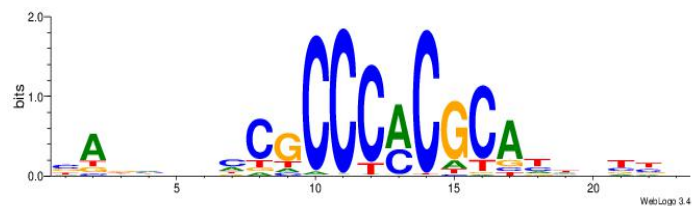
Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 20
Similarity score: 0.0762689

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB
-MGGTCAGGGTGACCTRDBHV--

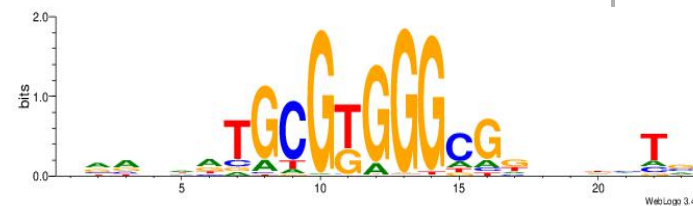
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



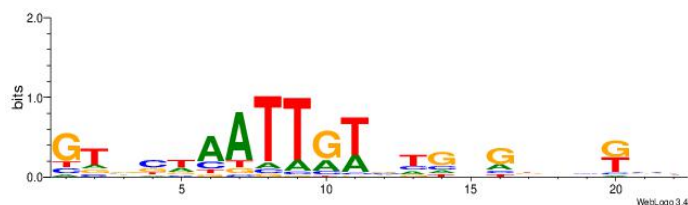
Motif ID: [UP00034](#)
Motif name: Sox7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0780113

Alignment:

GTVBDAATTGTVTGHGDDHKVB
VDBHMAGGTCACCCTGACCY--

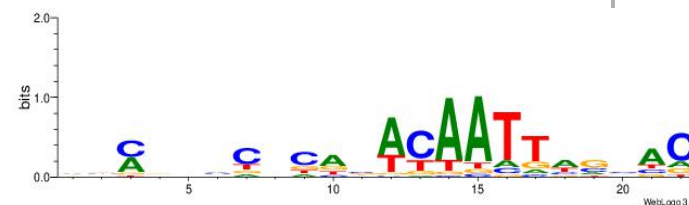
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

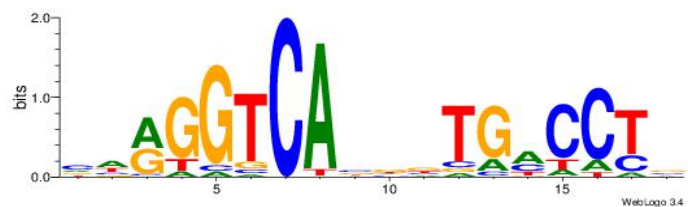
Consensus sequence: VVYDDDCHCAVACAATTDBVAC



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

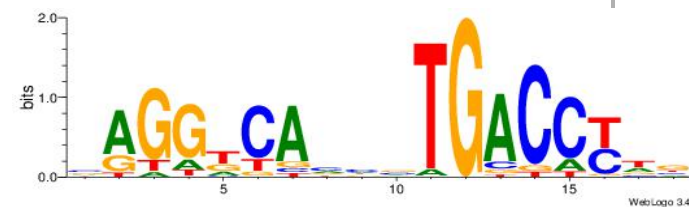
Original motif

Consensus sequence: VHRGGTCABDBTGMCTB



Reverse complement motif

Consensus sequence: BAGGYCABHBTGACCKHV



Best Matches for Motif ID 30 (Highest to Lowest)

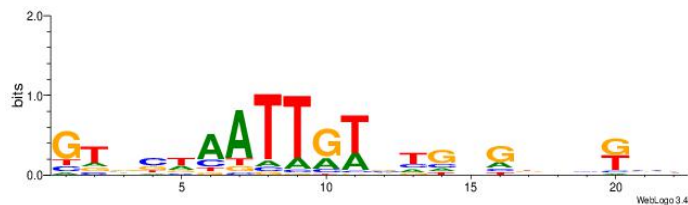
Motif ID: [UP00034](#)
Motif name: Sox7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 18
Similarity score: 0.0443894

Alignment:

GTVBDAATTGTVTGHGDDHKVB
---VHRGGTCABDBTGMCCCTB-

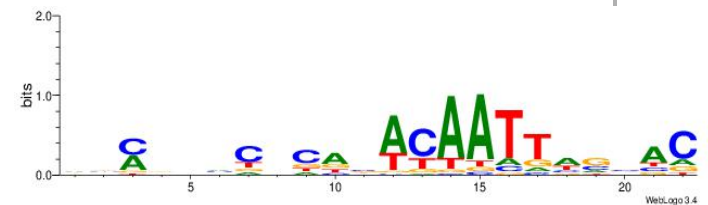
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

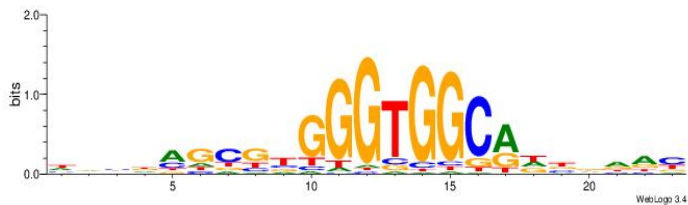


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif

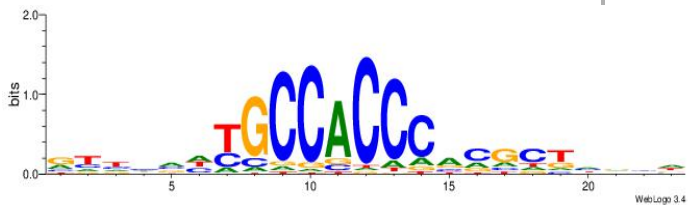
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 18
Similarity score: 0.049219

Alignment:
BDDHVDPKCCACCCVCGCTDBVH
---VHRGGTCABDBTGMCTB---

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
Consensus sequence: BDDHVDPKCCACCCVCGCTDBVH



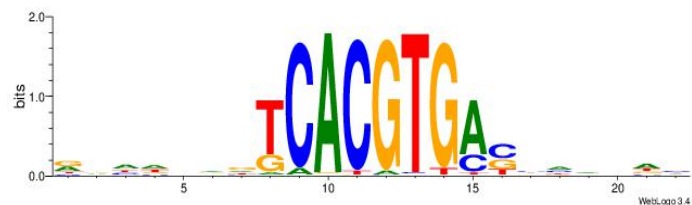
Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.0509182

Alignment:

DDHBHBSTCACGTGAHBBDHHM
--VHRGGTCABDBTGMCTB--

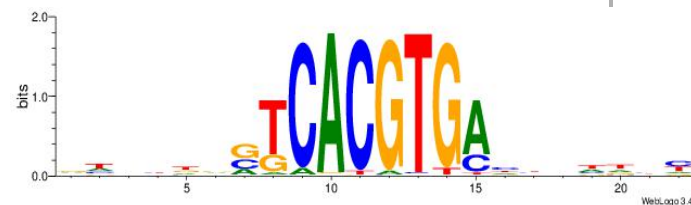
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



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:

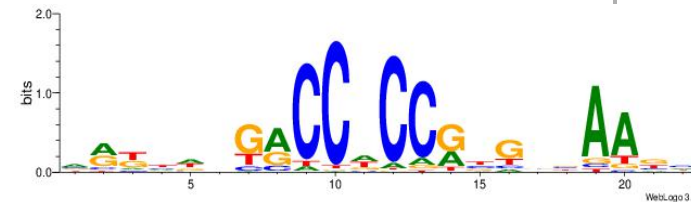
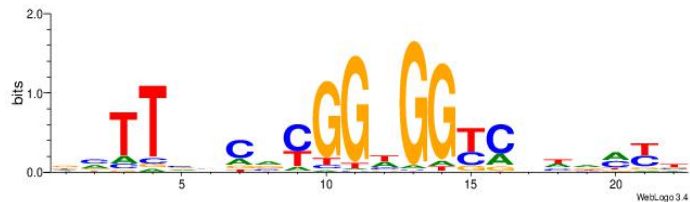
DVTTVVCVYGGHGGYCHHDMYB
-BAGGYCABHBTGACCKHV---

Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB

Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHV

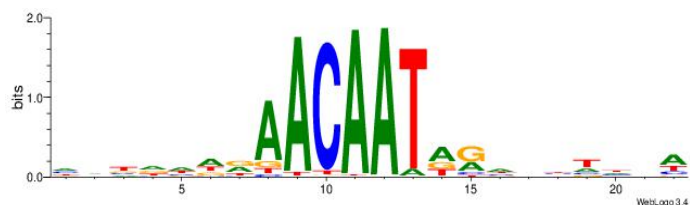


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 18
 Similarity score: 0.0541044

Alignment:
 WBHHHHHMDATTGTTHDHDVHH
 -BAGGYCABHBTGACCKHV---

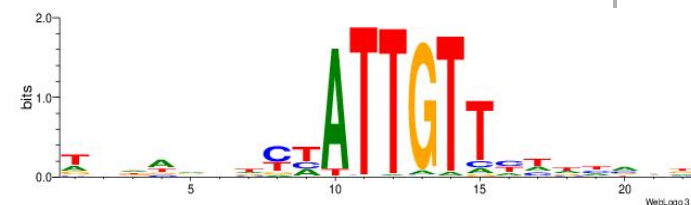
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00098](#)

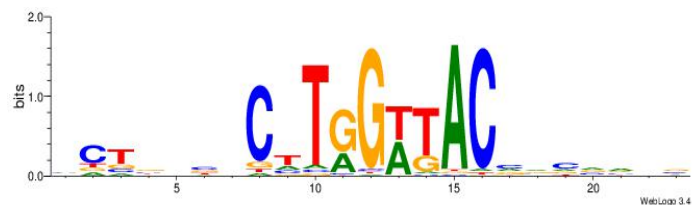
Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 18
 Similarity score: 0.0541108

Alignment:

VCTBHBVCTTGGWTACVVVVVDB
 --BAGGYCABHBTGACCKHV---

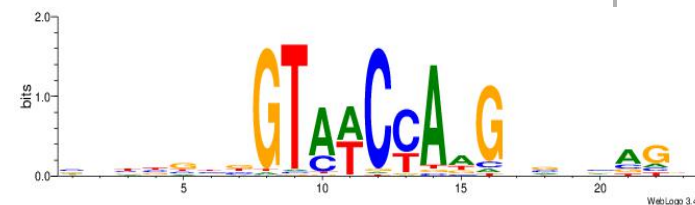
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVVGTAWCCAAGVBHBAGB

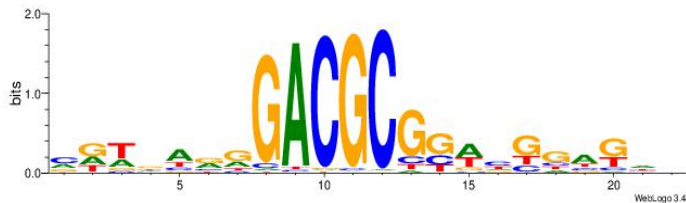


Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 18

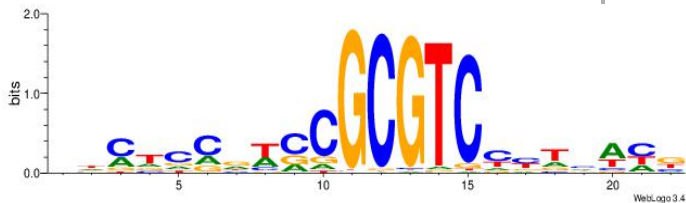
Similarity score: 0.0543733

Alignment:
VDWDARRGACGCGGWHGGAKHV
---VHRGGTCABDBTGMCTB-

Original motif
Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif
Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV

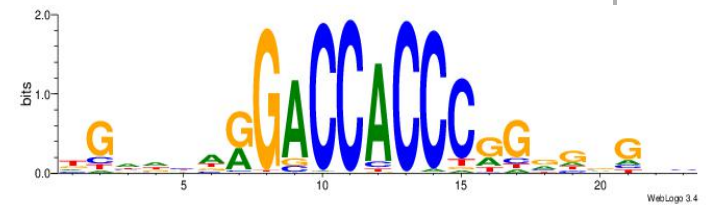
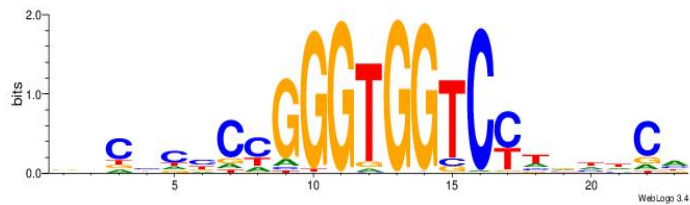


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 18
Similarity score: 0.0548087

Alignment:
BHCBCBCCGGGTGGTCYHVHDCH
-BAGGYCABHBTGACCKHV----

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

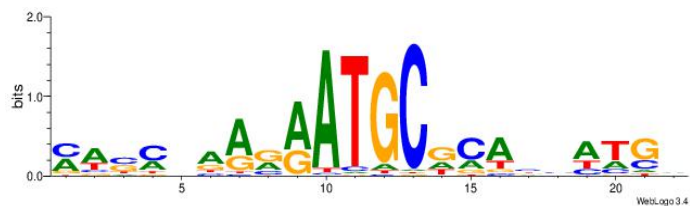
Reverse complement motif
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



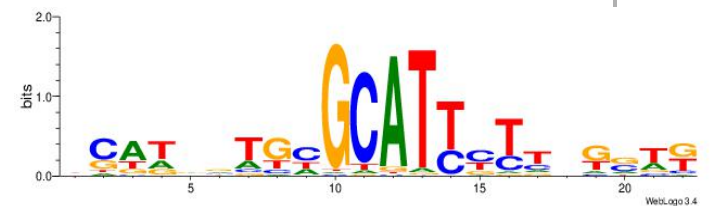
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 18
 Similarity score: 0.055453

Alignment:
 DCATDBTGHGCATKMTTBRSWR
 ----VHRGGTCABDBTGMCTB

Original motif
 Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
 Consensus sequence: DCATDBTGHGCATKMTTBRSWR



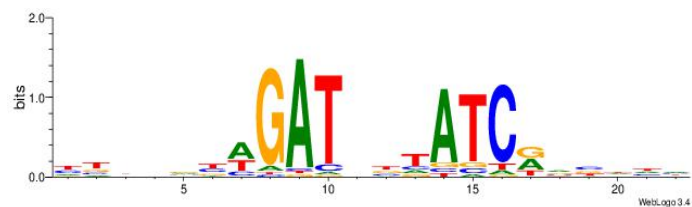
Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 18
 Similarity score: 0.0566426

Alignment:

HBHDVBWGATHBTATCRVBHHH
 -VHRGGTCABDBTGMCTB---

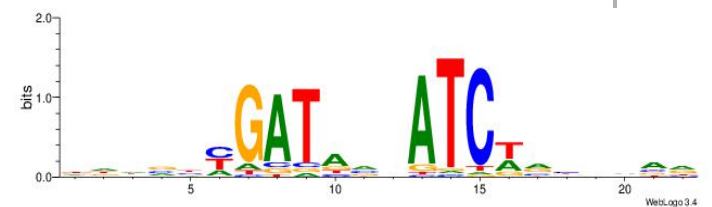
Original motif

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)

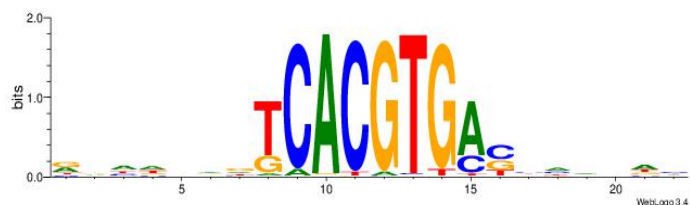
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0

Alignment:

RDHDBVDTACAGTGASBHVHDH
 -----CACGTG-----

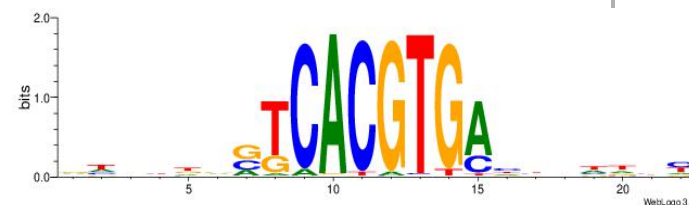
Original motif

Consensus sequence: RDHDBVDTACAGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



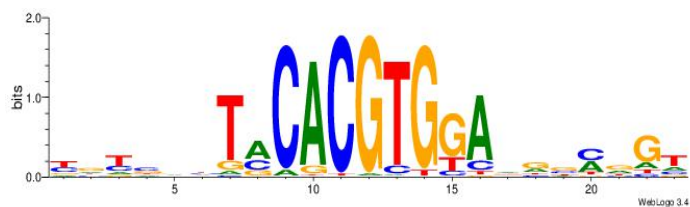
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.0026425

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----CACGTG-----

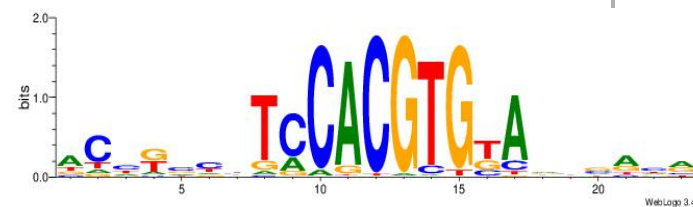
Original motif

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

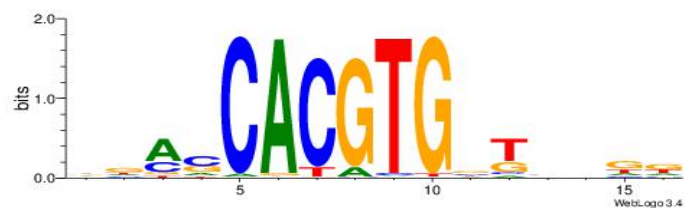
Number of overlap: 6
Similarity score: 0.0044422

Alignment:

DDASCACGTGBTBVDD
-----CACGTG-----

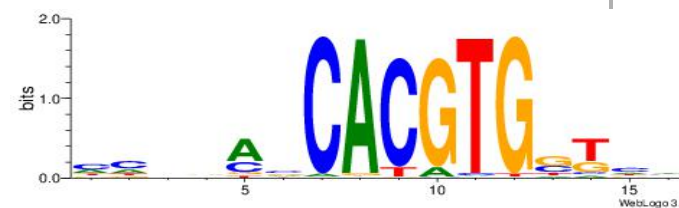
Original motif

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

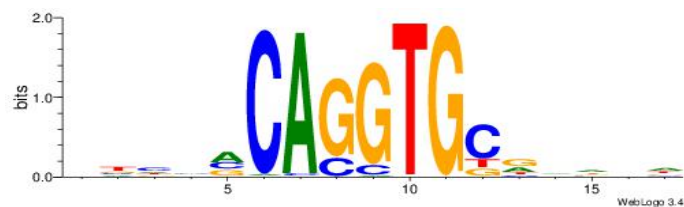
Alignment:

DHDBHGCACCTGBDDVB
-----CACGTG-----

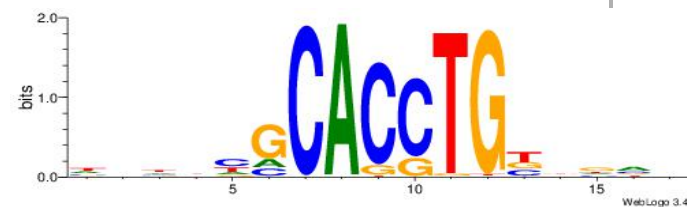
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB

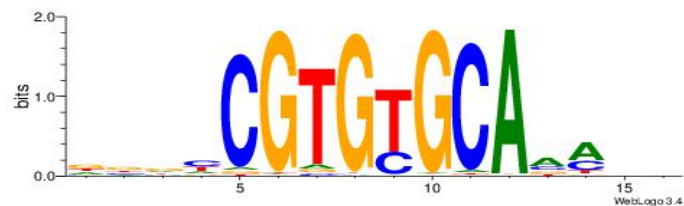


Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 6
Similarity score: 0.0471928

Alignment:
HDYTTGCACACGDHBH
-----CACGTG--

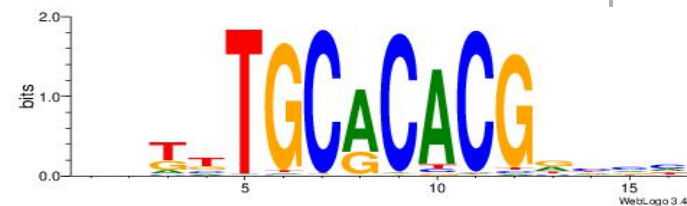
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



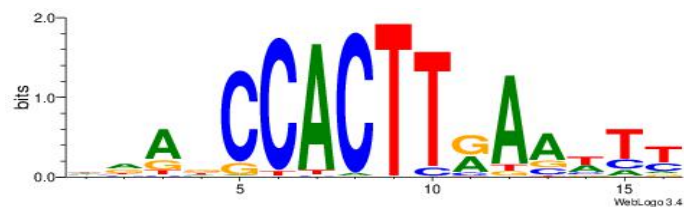
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0482749

Alignment:

HDADCCACTTTRAAWTT
 -----CACGTG-----

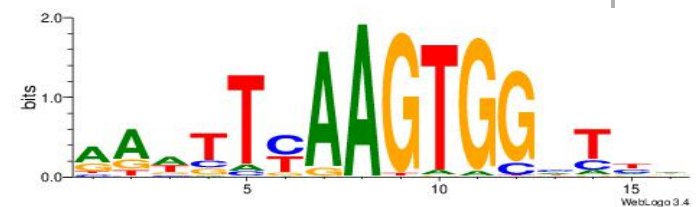
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH

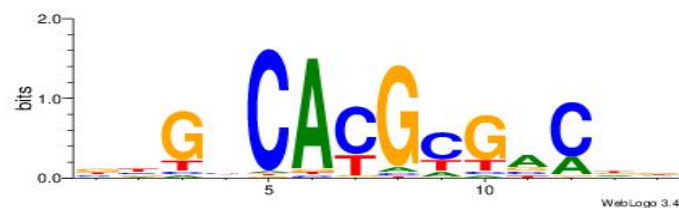


Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5

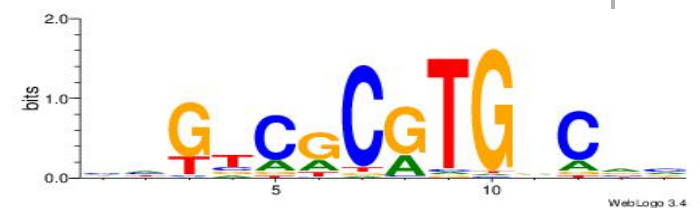
Number of overlap: 6
Similarity score: 0.0485437

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

Original motif
Consensus sequence: BBGHCACGCGACDD



Reverse complement motif
Consensus sequence: HDGTCGCGTGDCVB



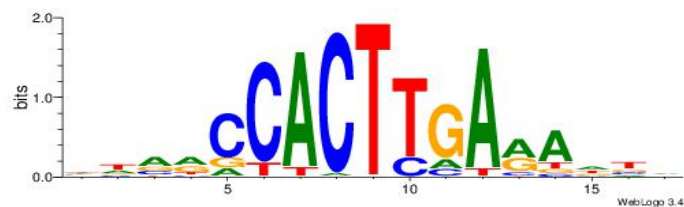
Motif ID: [UP00231](#)
Motif name: Nkx2-2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0497234

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

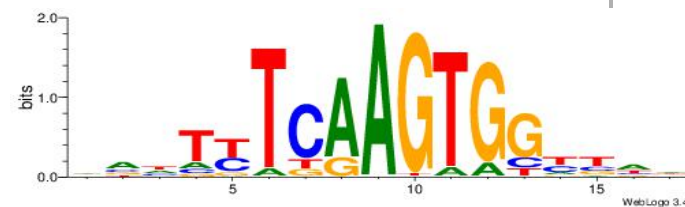
Original motif

Reverse complement motif

Consensus sequence: HDVRCCACTTGARADBD



Consensus sequence: DVDTKTCAAGTGGKBDH



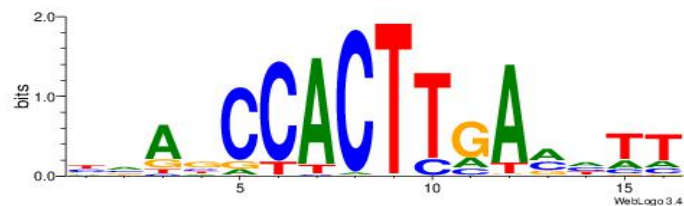
Motif ID: [UP00165](#)
Motif name: Titf1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0498919

Alignment:

AAHYTCAAGTGGBTBV
-----CACGTG-----

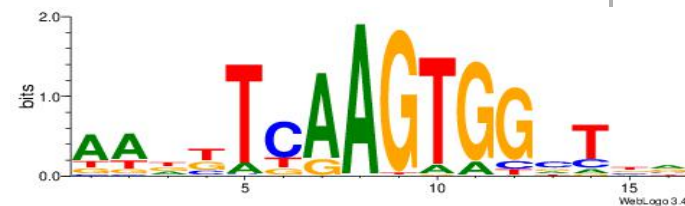
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



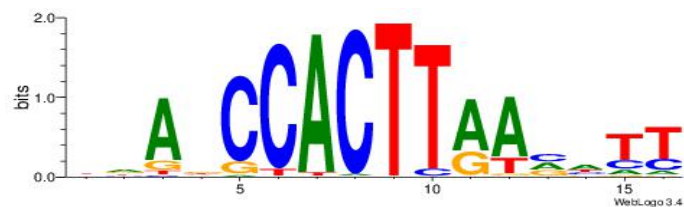
Motif ID: [UP00147](#)
 Motif name: Nkx2-6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0544601

Alignment:

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

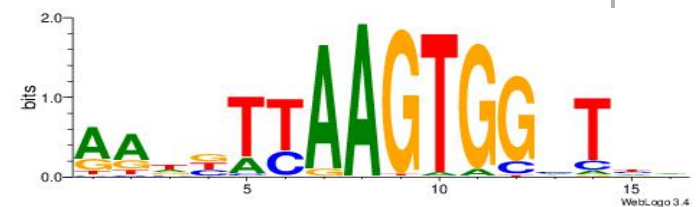
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



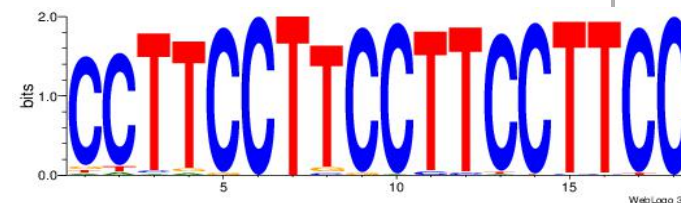
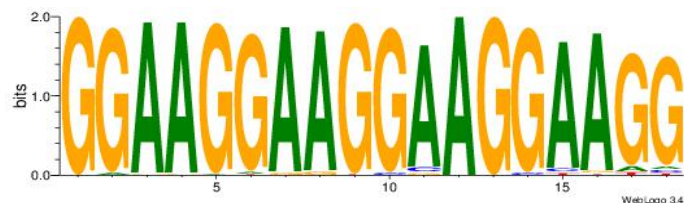
Dataset #: 2 Motif ID: 32 Motif name: EWSR1-FLI1

Original motif

Consensus sequence: GGAAGGAAGGAAGGAAGG

Reverse complement motif

Consensus sequence: CCTTCCTTCCTTCCTTCC



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--

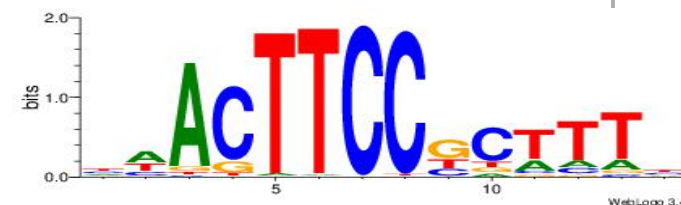
Original motif

Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



Motif ID: [UP00055](#)

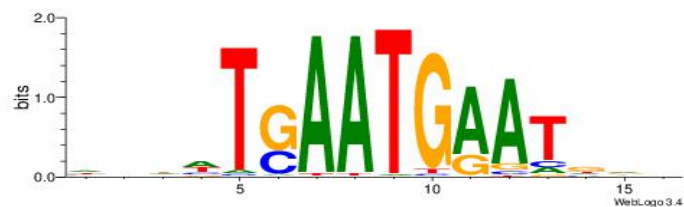
Motif name: Hbp1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0466226

Alignment:

----VDHATTCATTSAWDDH
 CCTTCCTTCCTTCCTTCC----

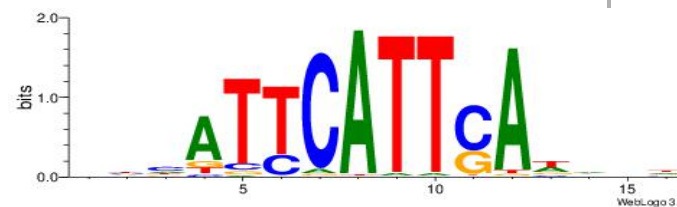
Original motif

Consensus sequence: HHDWTSATGAATDDB



Reverse complement motif

Consensus sequence: VDHATTCATTSAWDDH



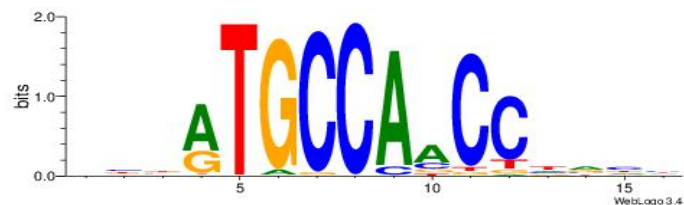
Motif ID: [UP00035](#)
 Motif name: Hic1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.047846

Alignment:

DBBATGCCAACCHVHH-----
 -----GGAAGGAAGGAAGGAAGG

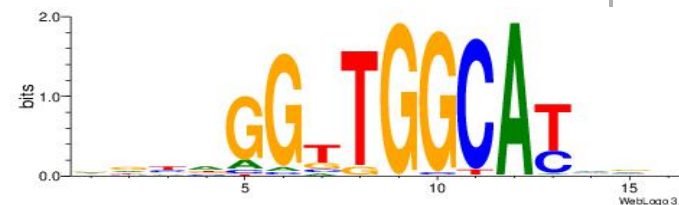
Original motif

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:

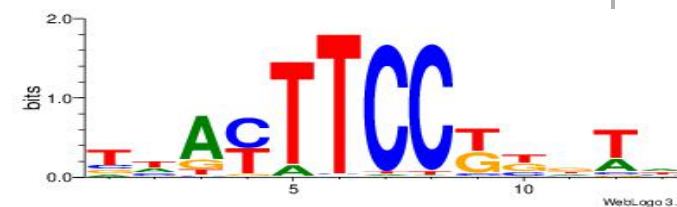
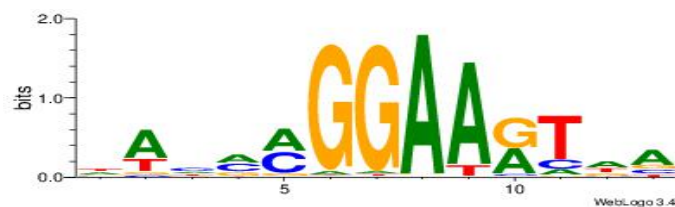
-----TDAMTTCCYYDTD
 CCTTCCTTCCTTCCTTCC---

Original motif

Consensus sequence: DAHMMGGAARTDA

Reverse complement motif

Consensus sequence: TDAMTTCCYYDTD



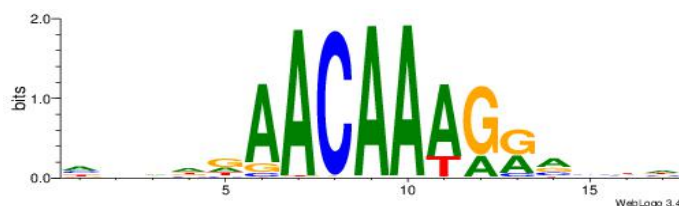
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 13
 Similarity score: 0.547912

Alignment:

HHBBMCTTTGTTTHDDDBH-----
 ----CCTTCCTTCCTTCCTTCC

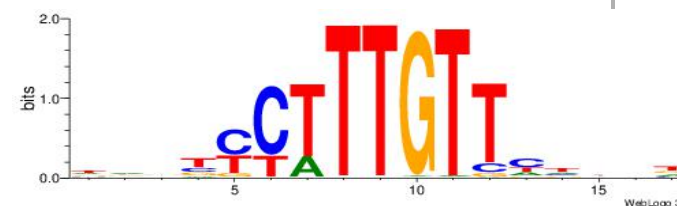
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDDBH



Motif ID: [UP00021](#)

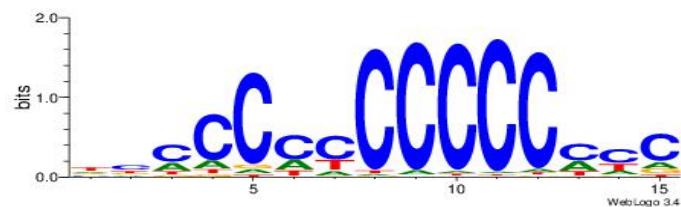
Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 13
 Similarity score: 0.548284

Alignment:

DBCCCCCCCCCMYC-----
 -----GGAAGGAAGGAAGGAAGG

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



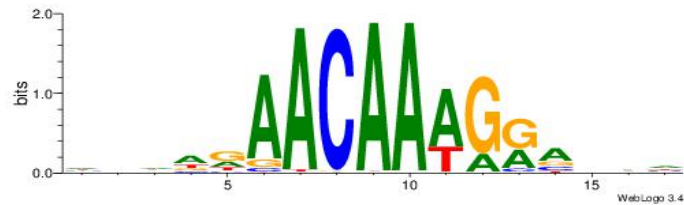
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 13
 Similarity score: 0.54837

Alignment:

```
HHBTMCTTTGTTMDDVH-----  
-----CCTTCCTTCCTTCCTTCC
```

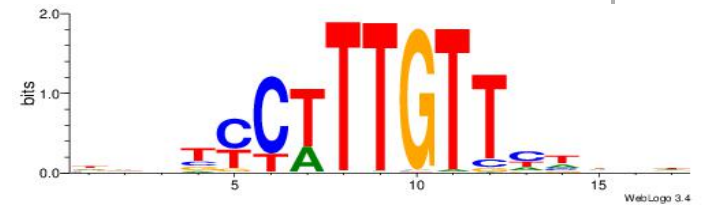
Original motif

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:

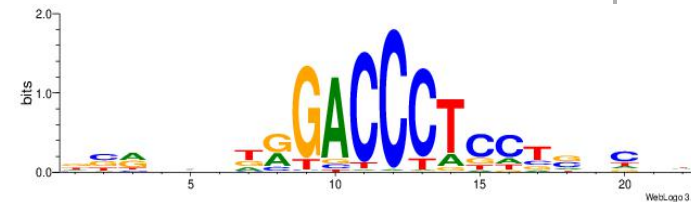
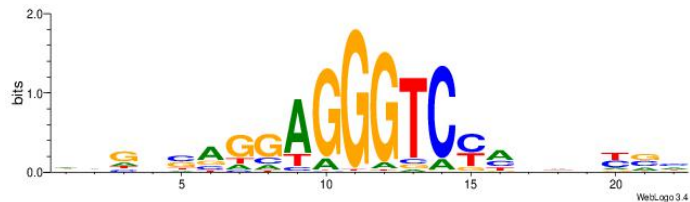
```
HVGVSAGGAGGGTCYHHHHYVH-----  
-----GGAAGGAAGGAAGGAAGG----
```

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
 GGAAGGAAGGAAGGAAG--

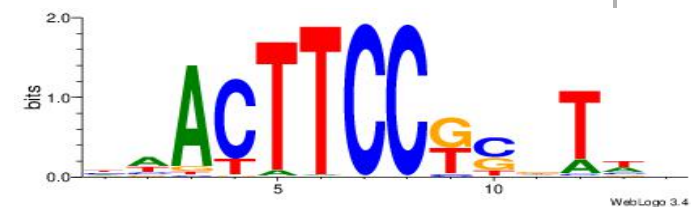
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00056](#)

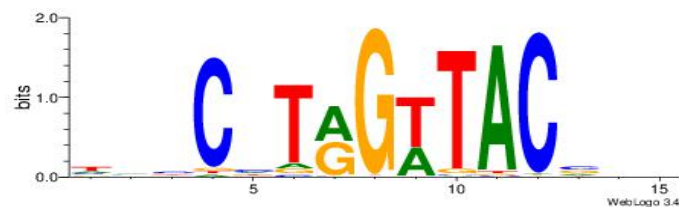
Motif name: Rfx4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 12
 Similarity score: 1.04349

Alignment:

-----HHBCHTRGWTACVVH
 GGAAGGAAGGAAGGAAGG-----

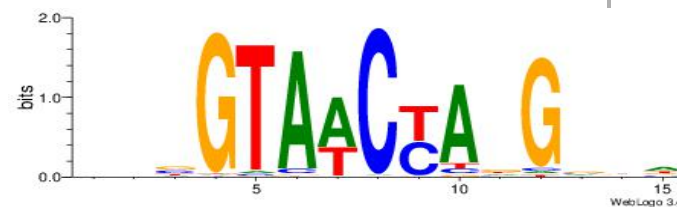
Original motif

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)

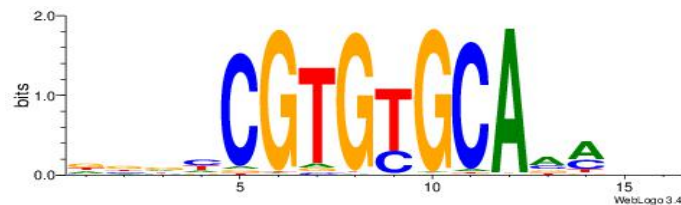
Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0

Alignment:

```
HDYTTGCACACGDHBH  
-----VCACGTBV--
```

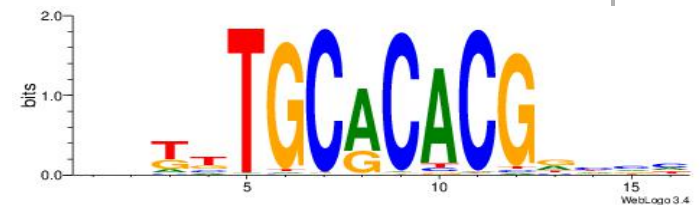
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH



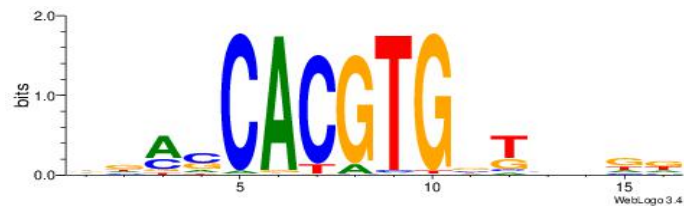
Motif ID: [UP00060](#)
Motif name: Max_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.000574345

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

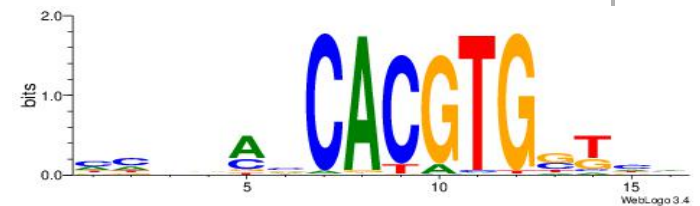
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



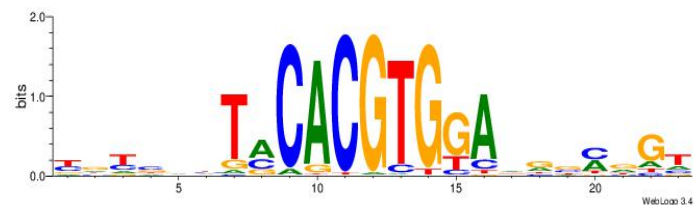
Motif ID:	UP00050
Motif name:	Bhlhb2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.00642455

Alignment:

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

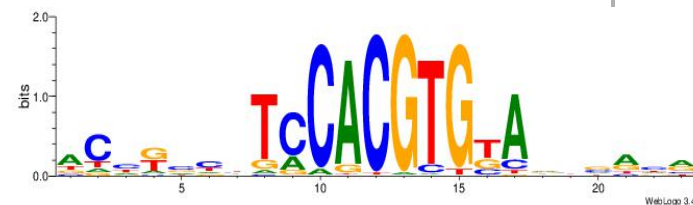
Original motif

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:

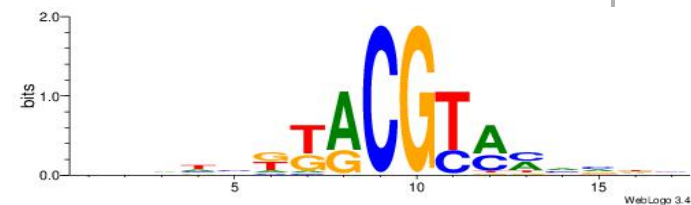
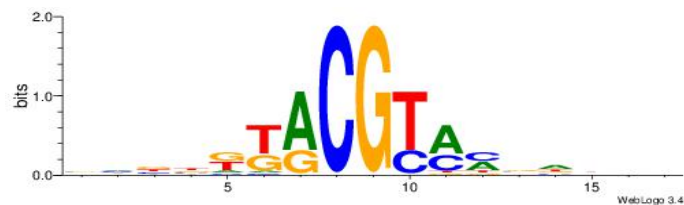
BVVDVRYACGTRYVBHB
 -----VBACGTGV-----

Original motif

Consensus sequence: BHBBKKACGTMMVDBVB

Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB

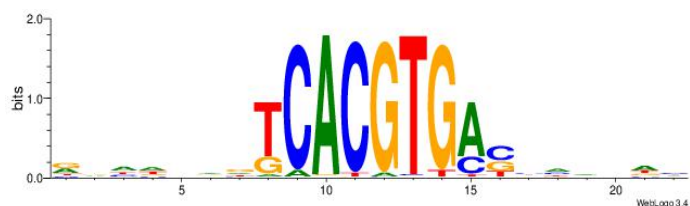


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.014006

Alignment:
 RDHDBVDTACGTGASBHVHDH
 -----VCACGTBV-----

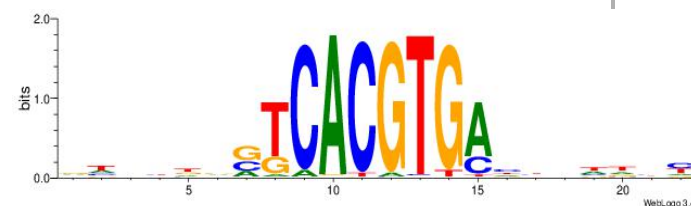
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDHMH



Motif ID: [UP00046](#)

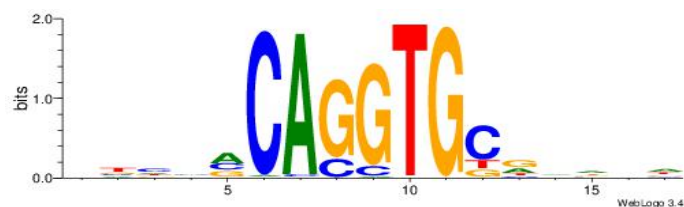
Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0184296

Alignment:

VBHHVCAGGTGCDVDHD
 ----VBACGTGV-----

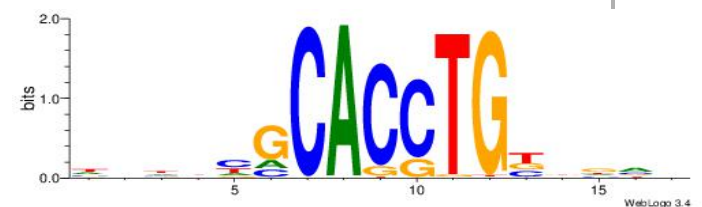
Original motif

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

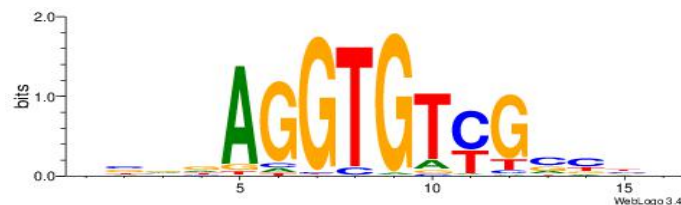
Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV
-----VCACGTBV--

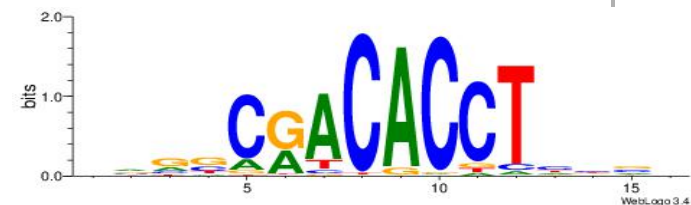
Original motif

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:

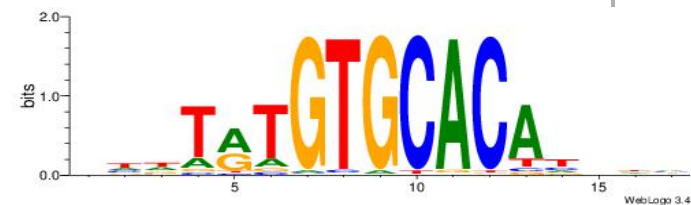
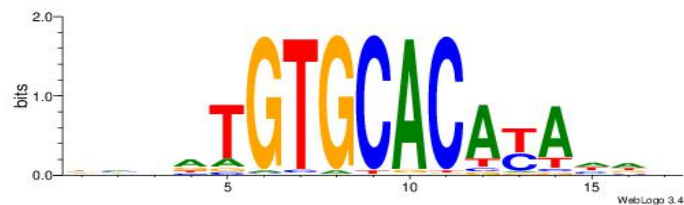
DHVDTGTGCACAYAHDH
-VBACGTGV-----

Original motif

Consensus sequence: DHVDTGTGCACAYAHDH

Reverse complement motif

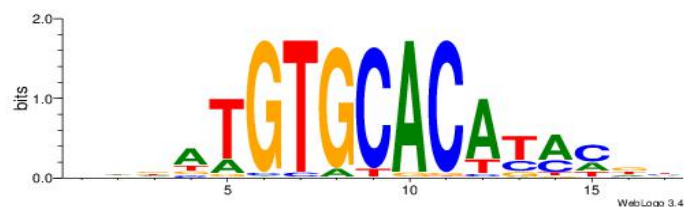
Consensus sequence: HDHTMTGTGCACADVHD



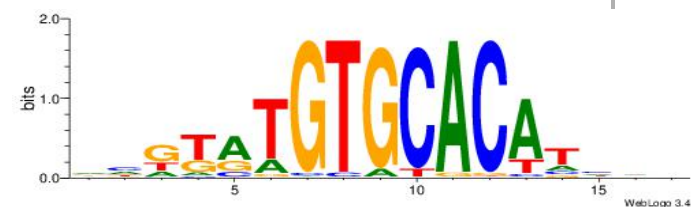
Motif ID: [UP00042](#)
 Motif name: Gm397_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0198987

Alignment:
 HHRTATGTGCACATHHD
 --VBACGTGV-----

Original motif
 Consensus sequence: HHDATGTGCACATAMDH



Reverse complement motif
 Consensus sequence: HHRTATGTGCACATHHD



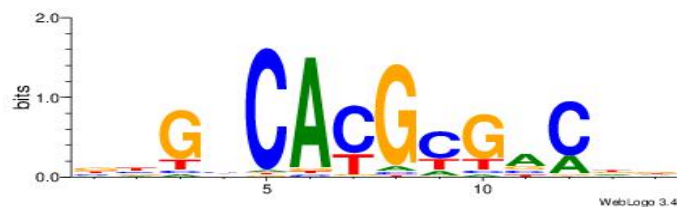
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.021967

Alignment:

BBGHCACGCGACDD
 ---VCACGTBV---

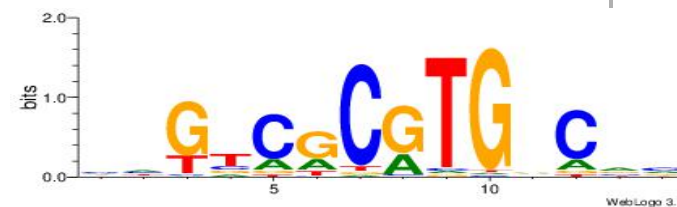
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



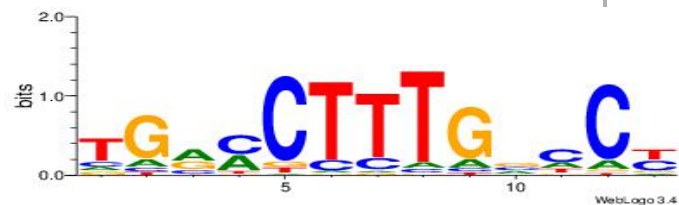
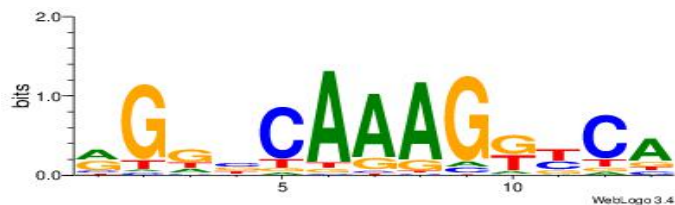
Dataset #: 2 Motif ID: 34 Motif name: HNF4A

Original motif

Consensus sequence: RGGBCAAAGKYCA

Reverse complement motif

Consensus sequence: TGM YCTTTGBCK



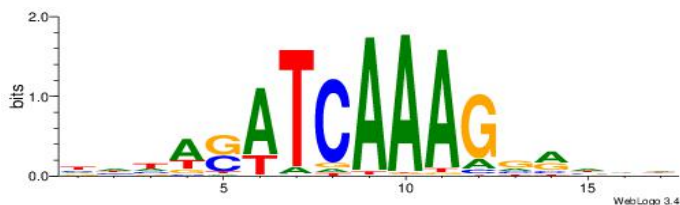
Best Matches for Motif ID 34 (Highest to Lowest)

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-

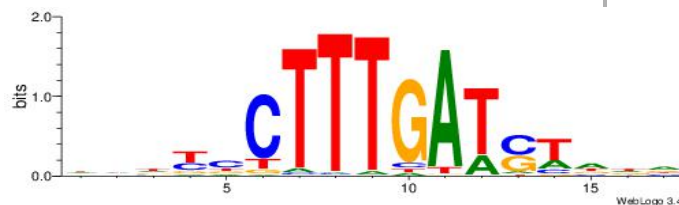
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



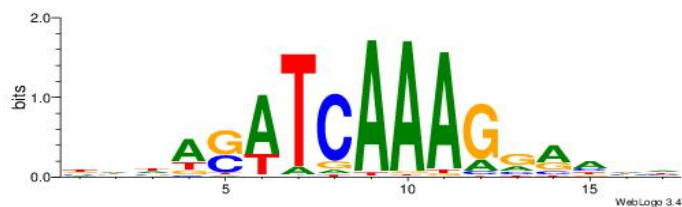
Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0357792

Alignment:

BHHASATCAAAGGAHHH
 ---RGGBCAAAGKYCA-

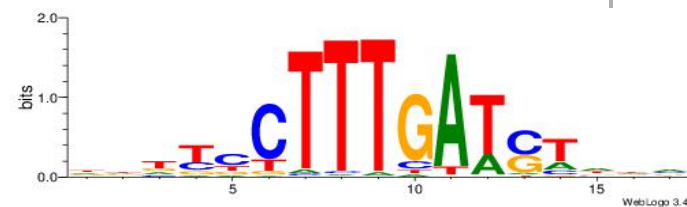
Original motif

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

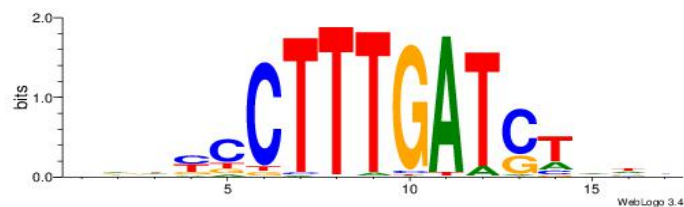
Number of overlap: 13
Similarity score: 0.0359011

Alignment:

VDDAGATCAAAGGKDDD
---RGGBCAAAGKYCA-

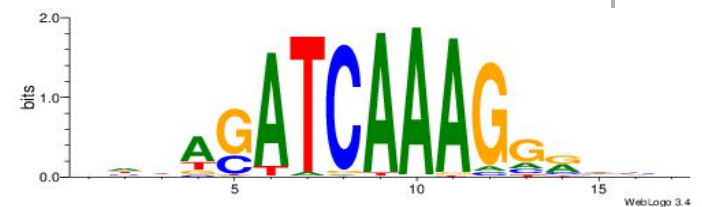
Original motif

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

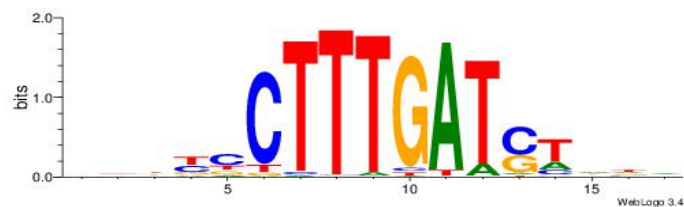
Alignment:

BDDASATCAAAGGMDDD
---RGGBCAAAGKYCA-

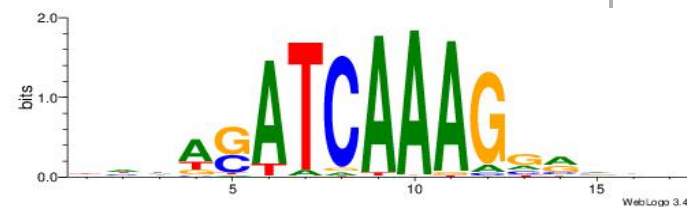
Original motif

Reverse complement motif

Consensus sequence: DDDYCCTTTGATSTDDV



Consensus sequence: BDDASATCAAAGMDDD

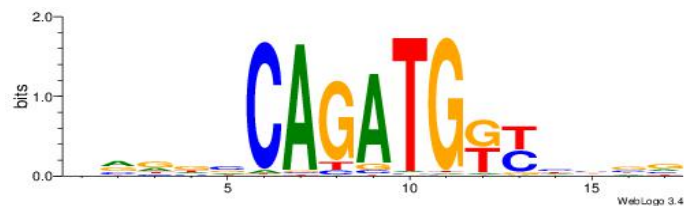


Motif ID: [UP00046](#)
Motif name: Tcfe2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0405764

Alignment:
HVDDVCAGATGKYHBBV
-RGGBCAAAGKYCA---

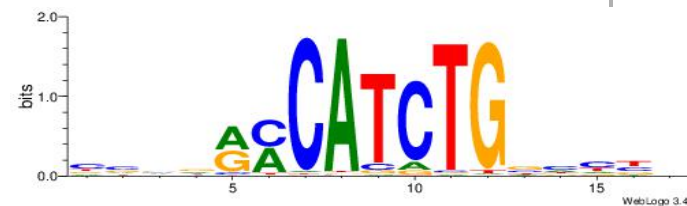
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBDDMYCATCTGVHHBH



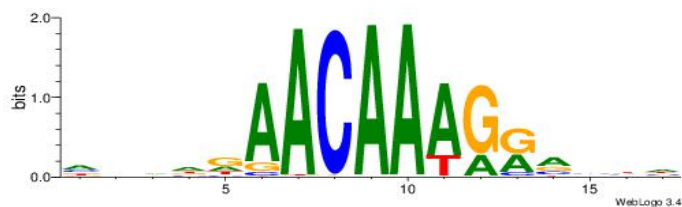
Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0409915

Alignment:

HHBBMCTTTGTTHDDBH
 -TGM YCTTTGB CCK---

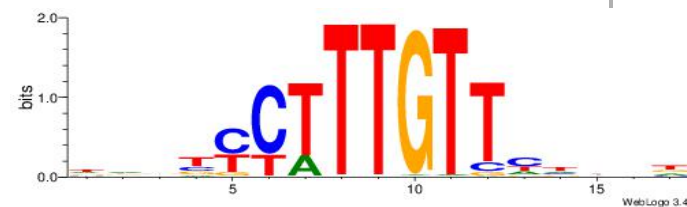
Original motif

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

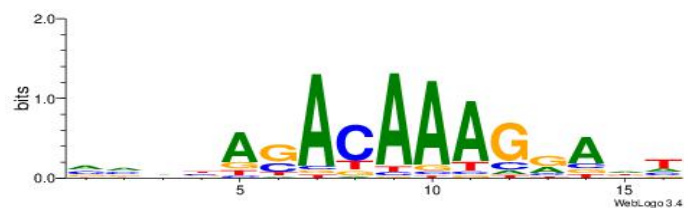
Number of overlap: 13
Similarity score: 0.0413218

Alignment:

HDTMCTTTGTSTVDBB
TGMYCTTTGBCK---

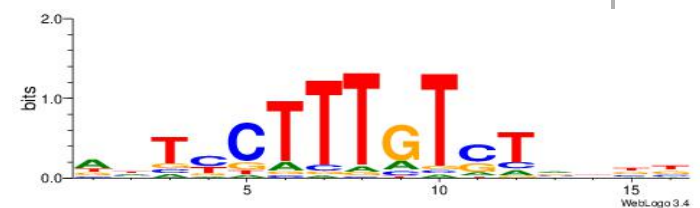
Original motif

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

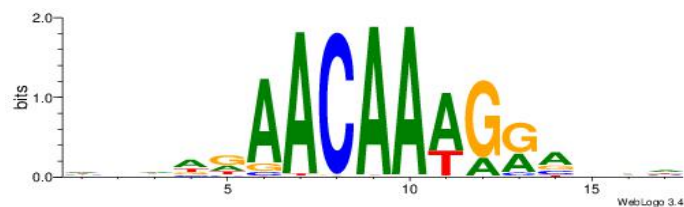
Alignment:

HHBTMCTTTGTTMDDVH
-TGMYCTTTGBCK---

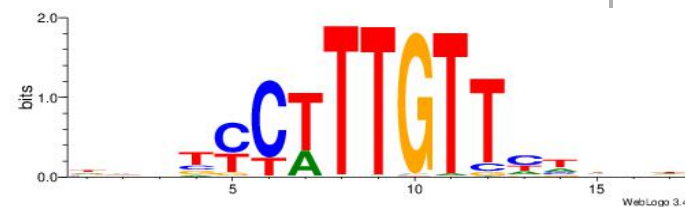
Original motif

Reverse complement motif

Consensus sequence: HBDDRAACAAAGRABHH



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-

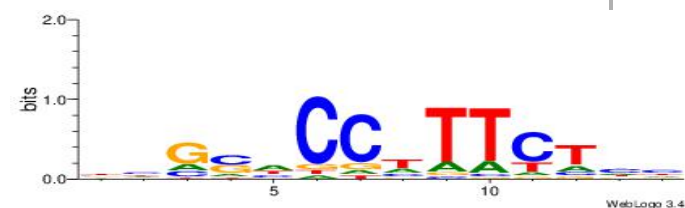
Original motif

Consensus sequence: DDAGAADGGDSCDV



Reverse complement motif

Consensus sequence: BHGSDCCDTTCTHH



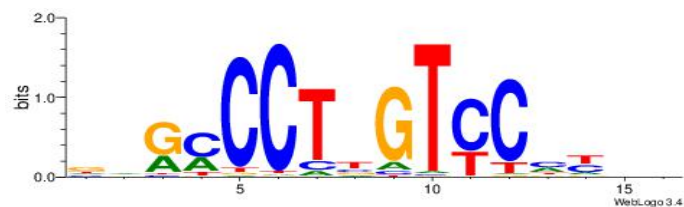
Motif ID: [UP00082](#)

Motif name: Zfp187_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0.0446884

Alignment:
 DDGMCCTBGTCCCHYHV
 ---RGGBCAAAGKYCA

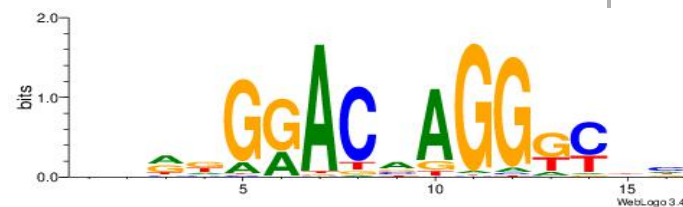
Original motif

Consensus sequence: DDGMCCTBGTCCCHYHV



Reverse complement motif

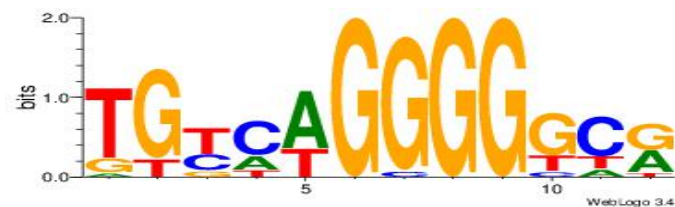
Consensus sequence: VHMDGGACVAGGRCDH



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

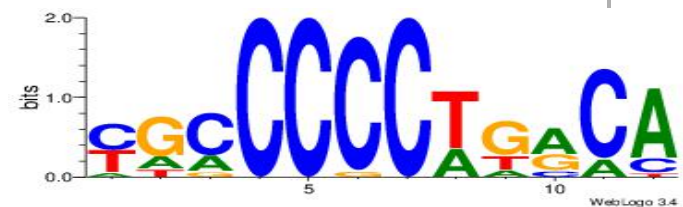
Original motif

Consensus sequence: TGYCAGGGGGCR



Reverse complement motif

Consensus sequence: MGCCCCCTGMCA



Best Matches for Motif ID 35 (Highest to Lowest)

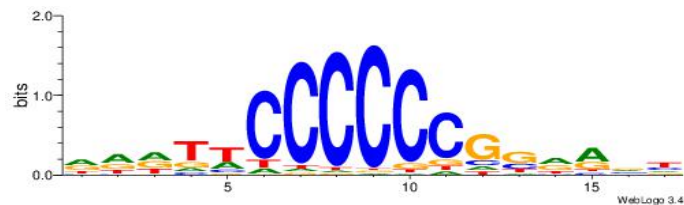
Motif ID: [UP00022](#)
Motif name: Zfp740_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.00085101

Alignment:

HVKDCCGGGGGGWADDD
--TGYCAGGGGGCR---

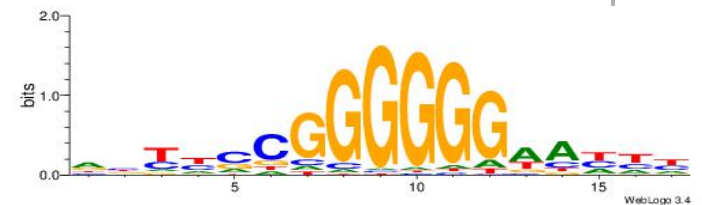
Original motif

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

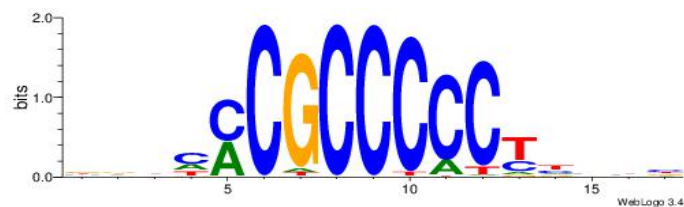
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.00406431

Alignment:

```
BVVHAGGGGGCGRDHBB
TGYCAGGGGGCR-----
```

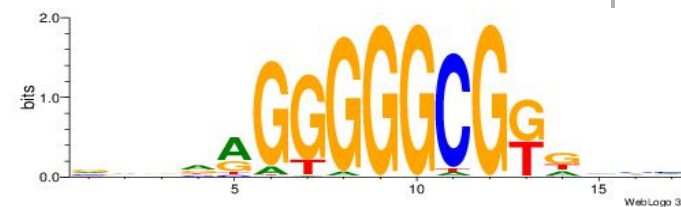
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



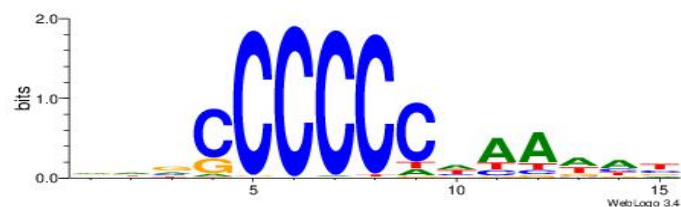
Motif ID:	UP00047
Motif name:	Zbtb7b_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.00486866

Alignment:

VHWTTHGGGGGGVDD
--TGYCAGGGGGCR--

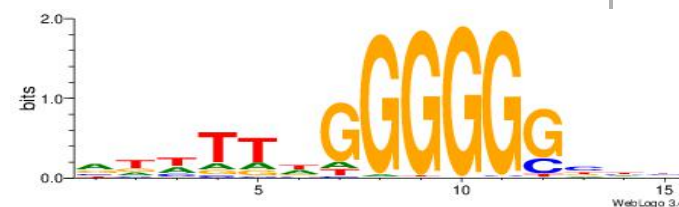
Original motif

Consensus sequence: DDVCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



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: 1
Number of overlap: 12
Similarity score: 0.00862553

Alignment:

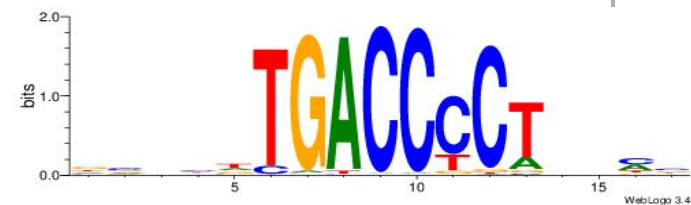
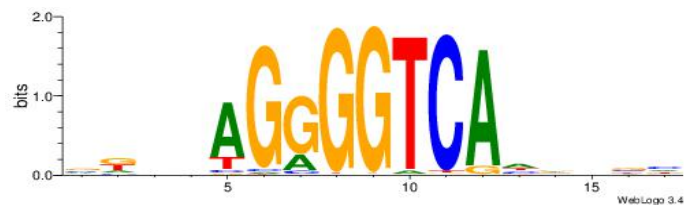
VKBBAGGGGTCAHDBBH
TGYCAGGGGGCR-----

Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH

Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV

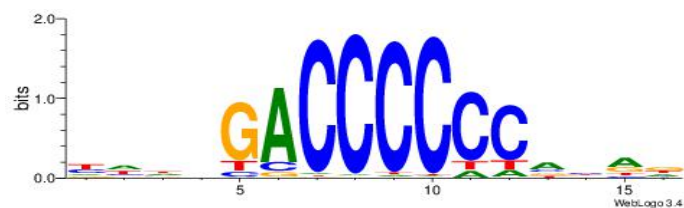


Motif ID: [UP00024](#)
 Motif name: Glis2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.00936306

Alignment:
 HKBBGGGGGGTCTVHHH
 -TGYCAGGGGGCR---

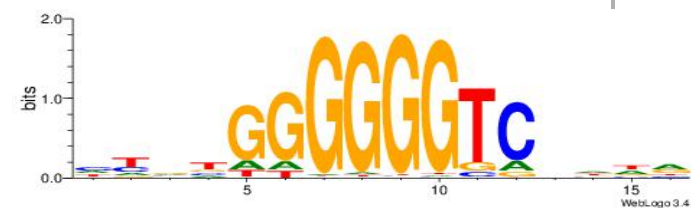
Original motif

Consensus sequence: HHHVGACCCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCTVHHH



Motif ID: [UP00066](#)

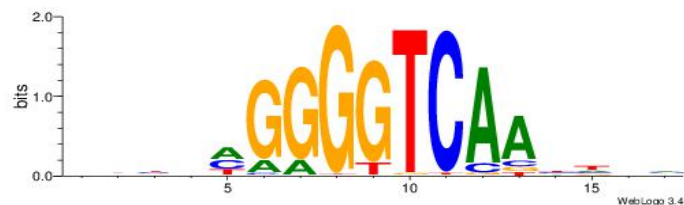
Motif name: Hnf4a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0123592

Alignment:

BDBVMGGGGTCAABHDV
 TGYCAGGGGGCR-----

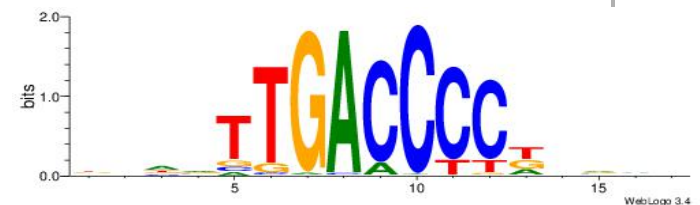
Original motif

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

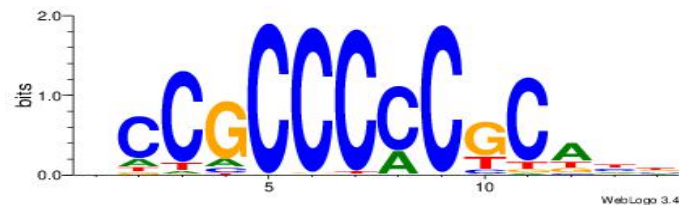
Alignment:

HCCGCCCCCGCAHB

--MGCCCCCTGMCA

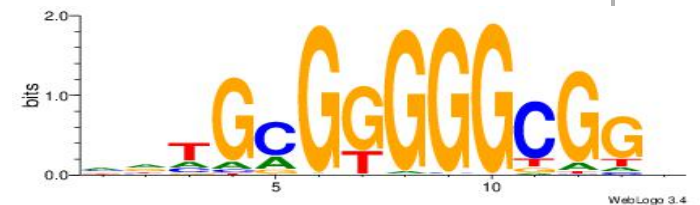
Original motif

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

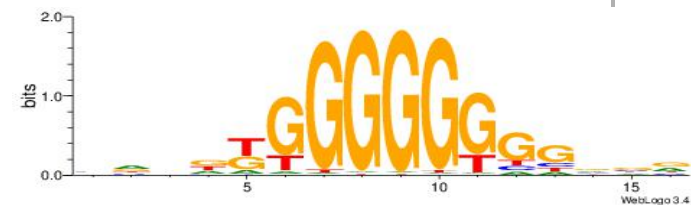
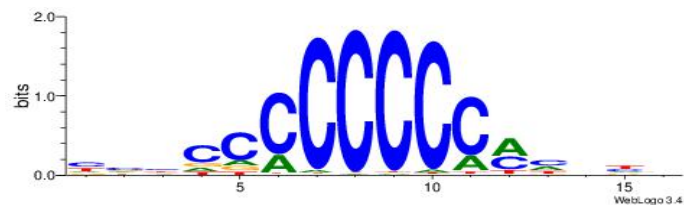
---MGCCCCCTGMCA-

Original motif

Consensus sequence: HVBCCCCCCCCMHHHB

Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



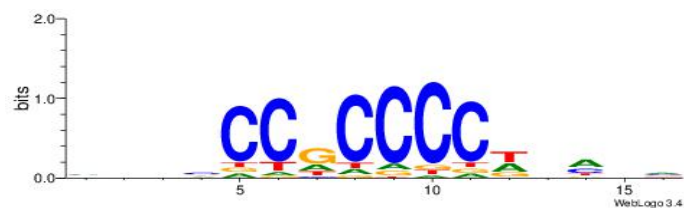
Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 12
 Similarity score: 0.0182432

Alignment:

BHHHWGGGGCGGBBVH
 TGYCAGGGGGCR----

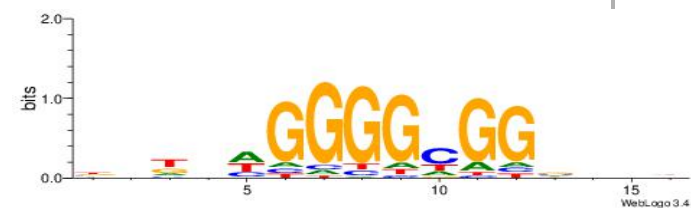
Original motif

Consensus sequence: HBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



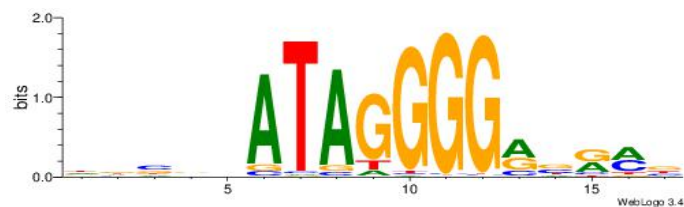
Motif ID: [UP00070](#)
 Motif name: Gcm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0200587

Alignment:

BYMBKCCCCTATDVBHD
 --MGCCCCCTGMCA---

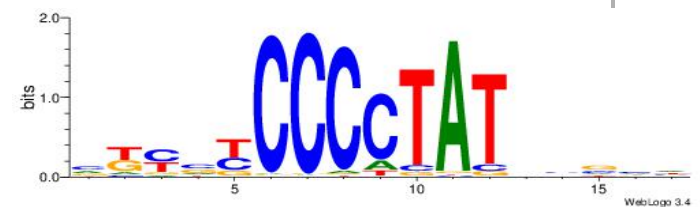
Original motif

Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif

Consensus sequence: BYMBKCCCCTATDVBHD



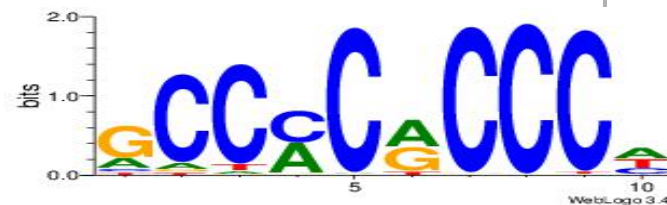
Dataset #: 2 Motif ID: 36 Motif name: Klf4

Original motif

Consensus sequence: DGGGYGKGCC

Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 36 (Highest to Lowest)

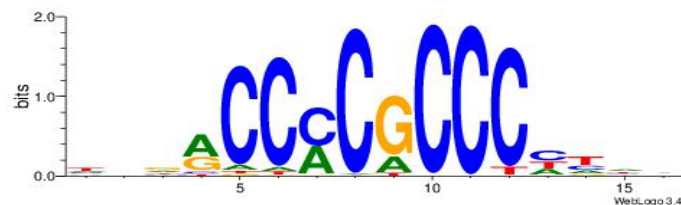
Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0

Alignment:

DHHDGGGCGRGGKHBH
 ---DGGGYGKGGC---

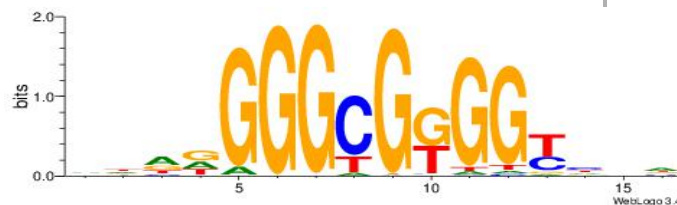
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



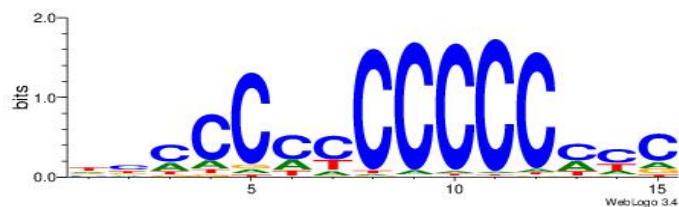
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0153308

Alignment:

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

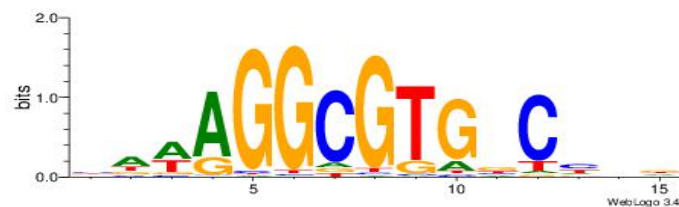
Number of overlap: 10
Similarity score: 0.0186791

Alignment:

BDWAGGCGTGBCHHD
--DGGGYGKGGC---

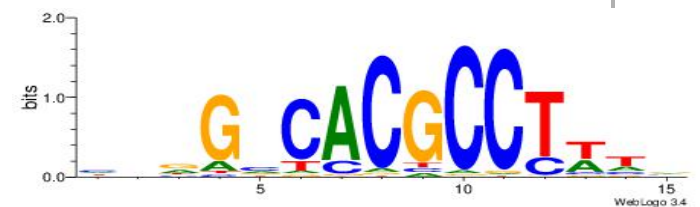
Original motif

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

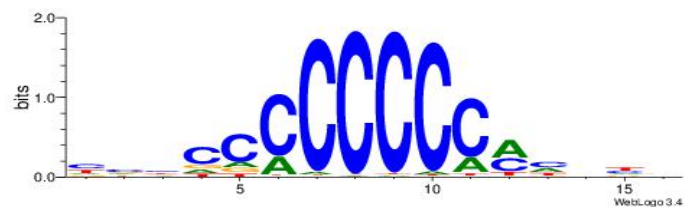
Alignment:

HVBCCCCCCCCMHHHB
--GCCYCMCCCD----

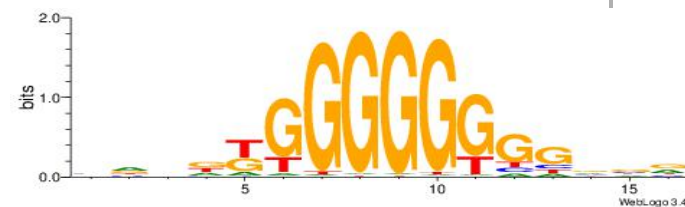
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



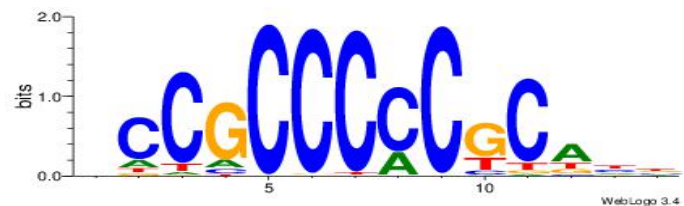
Motif ID: [UP00007](#)
Motif name: Egr1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0249586

Alignment:

HCCGCCCCCGCAHB
GCCYCMCCCD-----

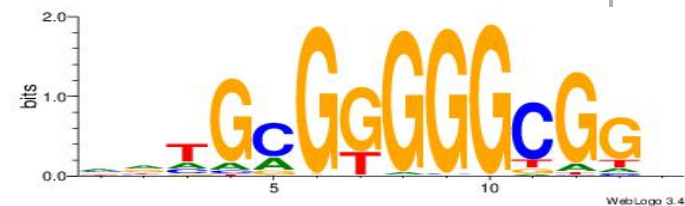
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



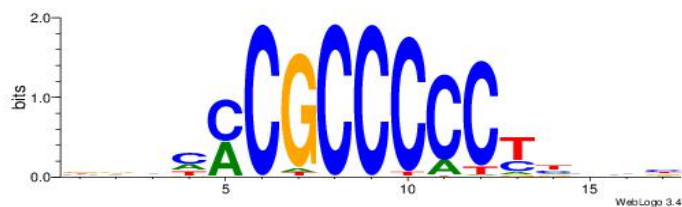
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0299159

Alignment:

BVVHAGGGGGCGRDHHB
 -----DGGGYGKGGC-

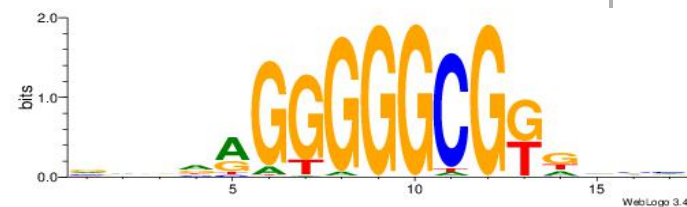
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



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

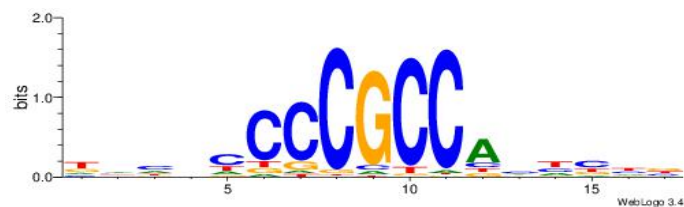
Number of overlap: 10
Similarity score: 0.0308595

Alignment:

BHBHDTGGCGGGGBDHD
-----DGGGYGKGGC---

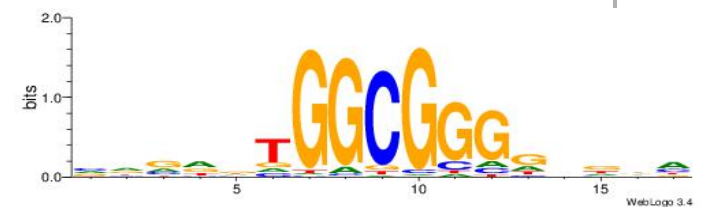
Original motif

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:

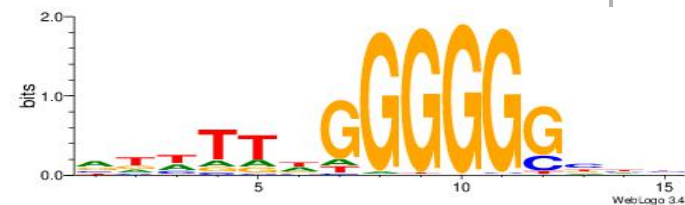
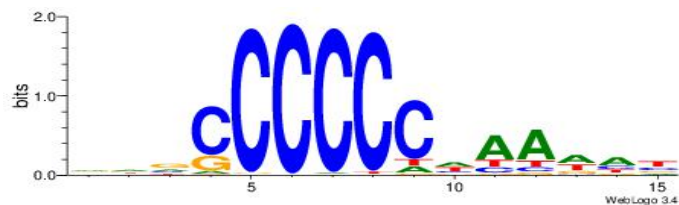
VHWTTHGGGGGGVDD
GCCYCMCCCD-----

Original motif

Consensus sequence: DDVCCCCCCHAAWHB

Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD

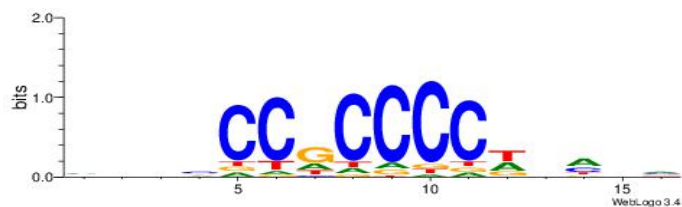


Motif ID: [UP00043](#)
 Motif name: Bcl6b_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0346735

Alignment:
 HBBBCCGCCCCWHHHV
 --GCCYCMCCCD----

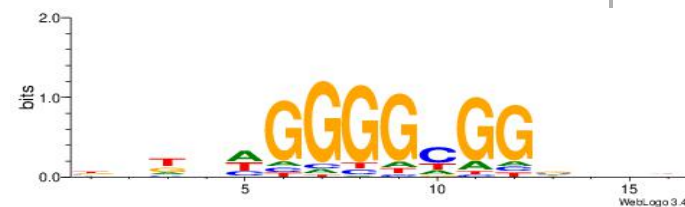
Original motif

Consensus sequence: HBBBCCGCCCCWHHHV



Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



Motif ID: [UP00538](#)

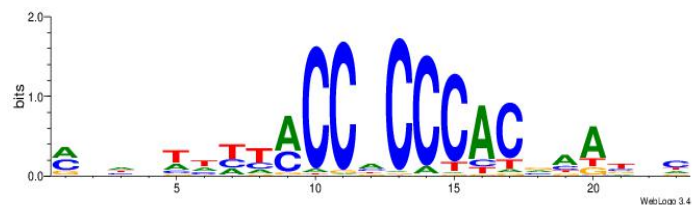
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.0351496

Alignment:

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

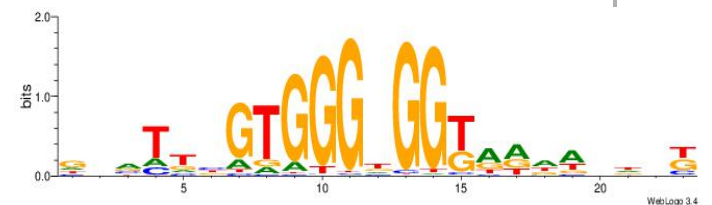
Original motif

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: GCGGACGTTV



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-----

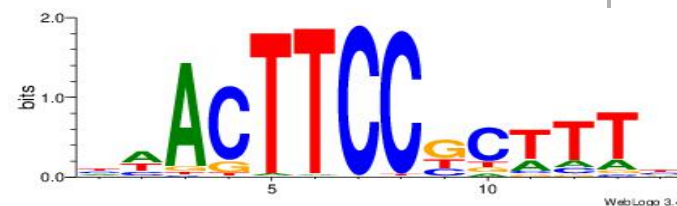
Original motif

Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



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

Alignment:
 BWAHSMGGAAGTWD
 BAACGTCCGC-----

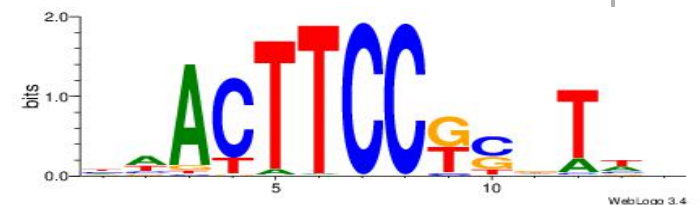
Original motif

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

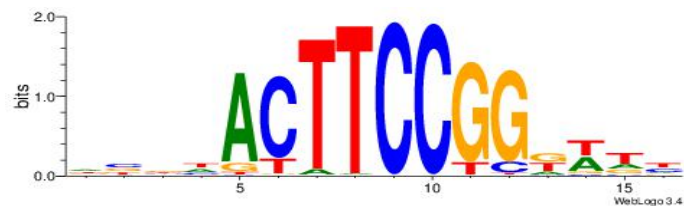
Alignment:

DBBHACTTCCGGKWTH

--BAACGTCCGC----

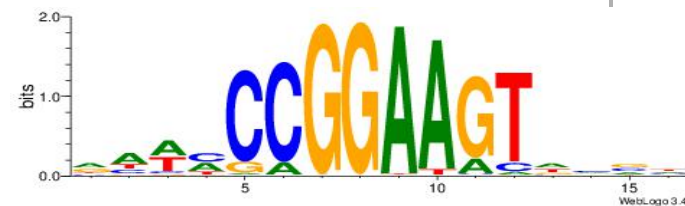
Original motif

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

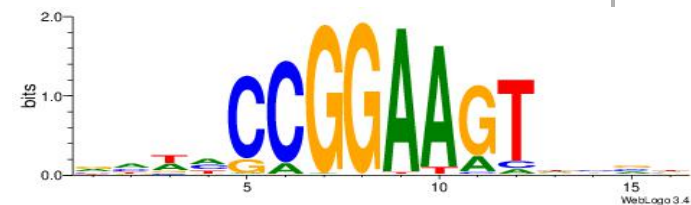
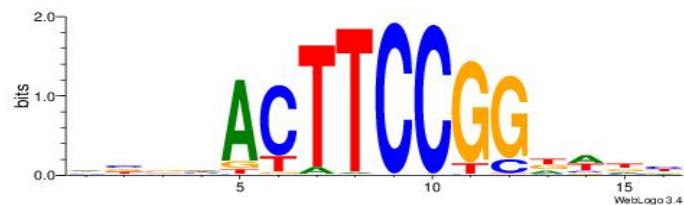
--BAACGTCCGC----

Original motif

Consensus sequence: DBBHACTTCCGGDWDB

Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Motif ID: [UP00085](#)
 Motif name: Sfpi1_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: 0.0141516

Alignment:
 BDAWGVGGAAGTDH
 BAACGTCCGC-----

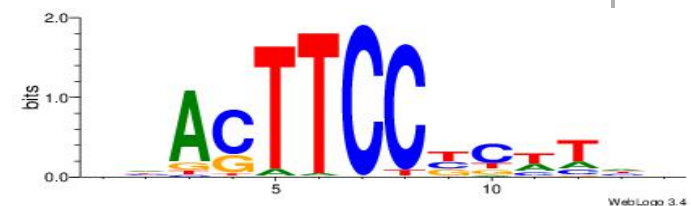
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



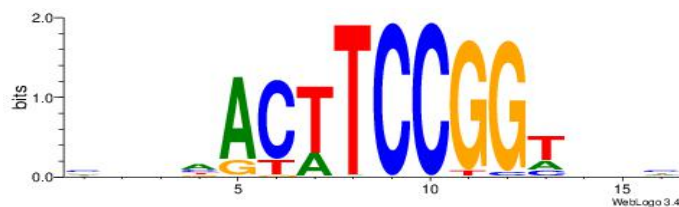
Motif ID: [UP00423](#)
 Motif name: Gm5454

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--

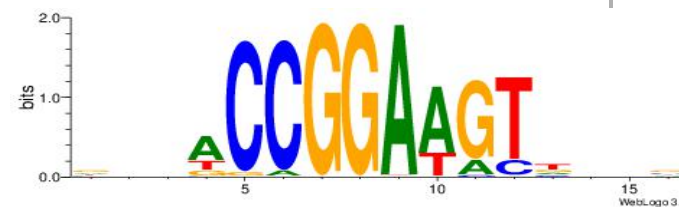
Original motif

Consensus sequence: VDHHA¹CTTCCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



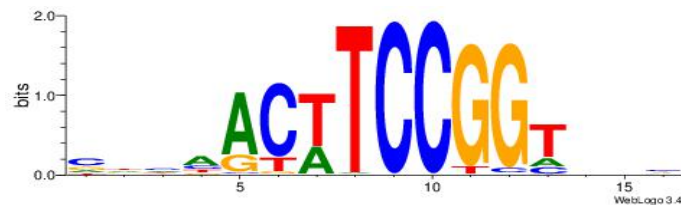
Motif ID: [UP00412](#)
 Motif name: Etv5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0155825

Alignment:

DHHACCGGAWGTTDDV
----GCGGACGTTV--

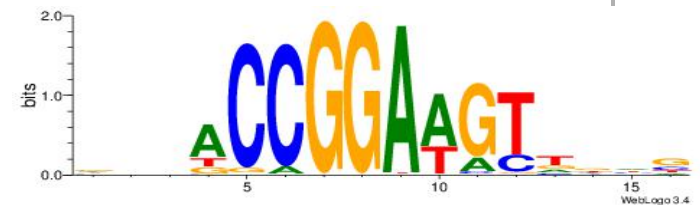
Original motif

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:

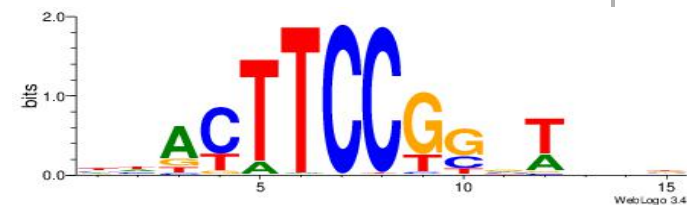
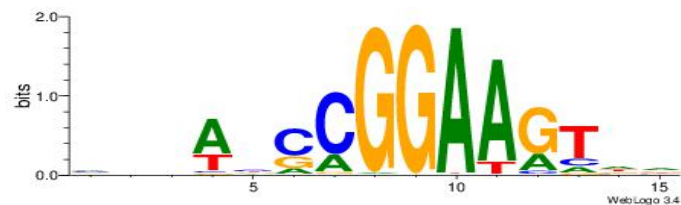
VBDABCCGGAAGTDD
-----GCGGACGTTV

Original motif

Consensus sequence: VBDABCCGGAAGTDD

Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB

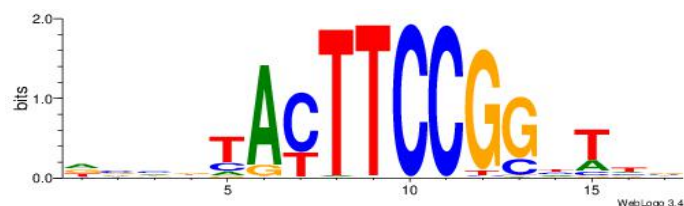


Motif ID: [UP00418](#)
 Motif name: Etv6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0171234

Alignment:
 DVHBTACTTCCGGHTHB
 ---BAACGTCCGC-----

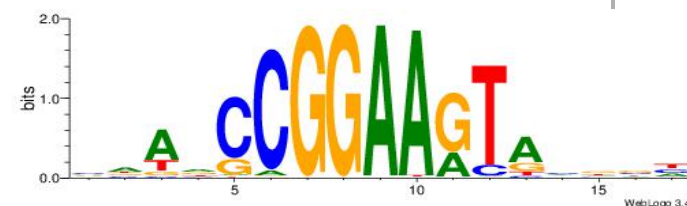
Original motif

Consensus sequence: DVHBTACTTCCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Motif ID: [UP00421](#)

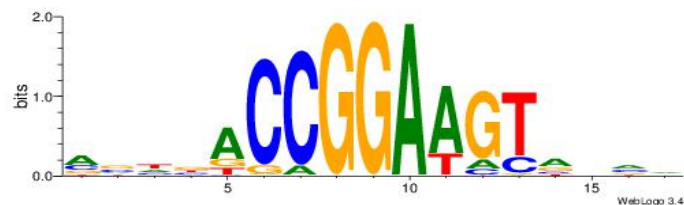
Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0184147

Alignment:

MVHBACCGGAAGTVDVH
 -----GCGGACGTTV--

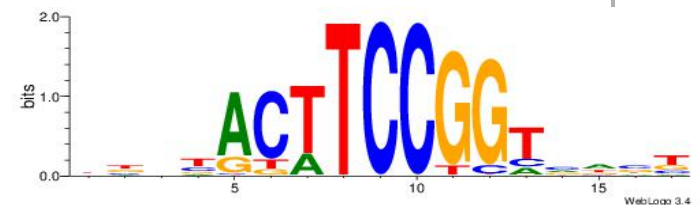
Original motif

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



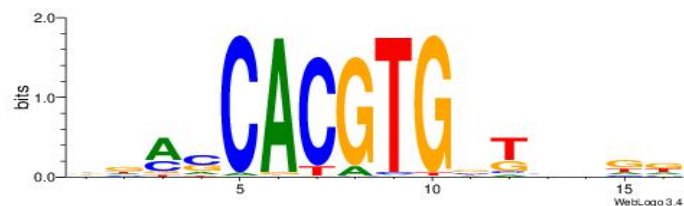
Best Matches for Motif ID 38 (Highest to Lowest)

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----

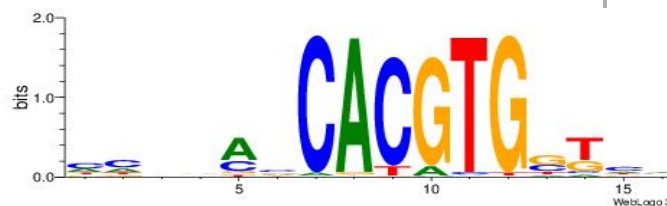
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



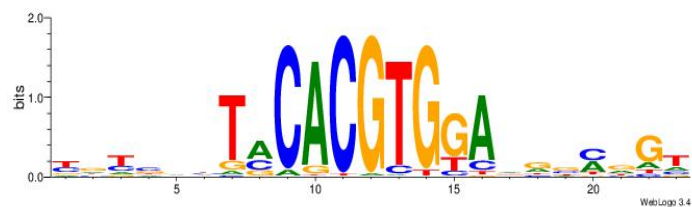
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.00631885

Alignment:

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

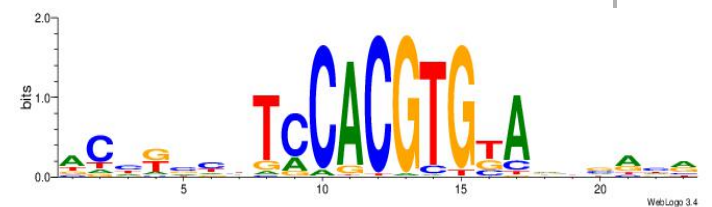
Original motif

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

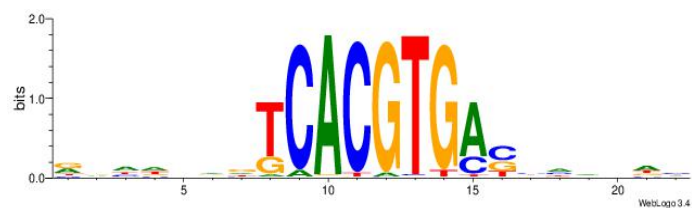
Number of overlap: 10
Similarity score: 0.00821668

Alignment:

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

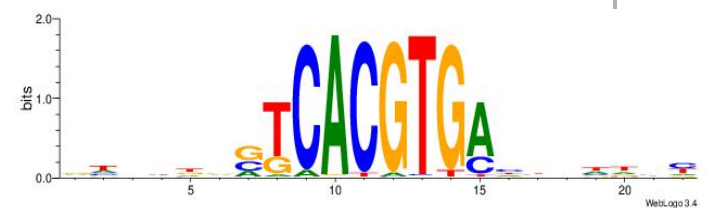
Original motif

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

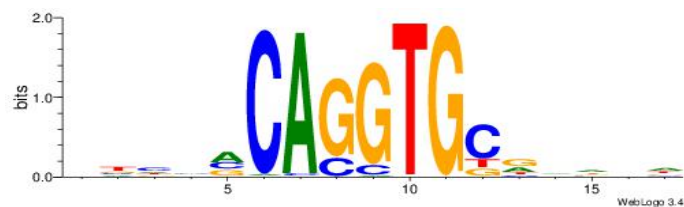
Alignment:

DHDBHGCACCTGBDDVB
----VGCACGTGGH---

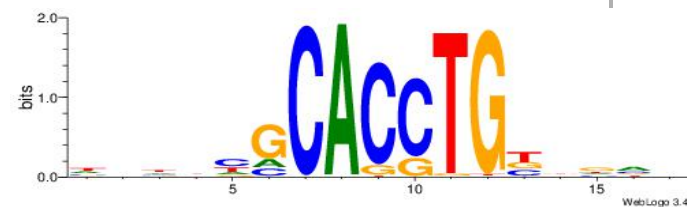
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



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

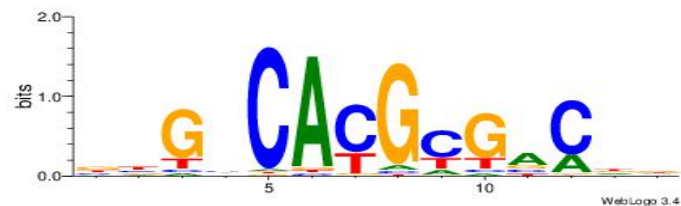
Alignment:

BBGHCACGCGACDD

--VGCACGTGGH--

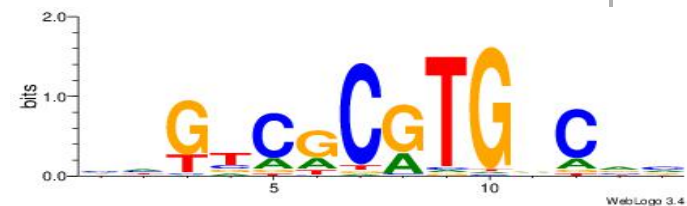
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



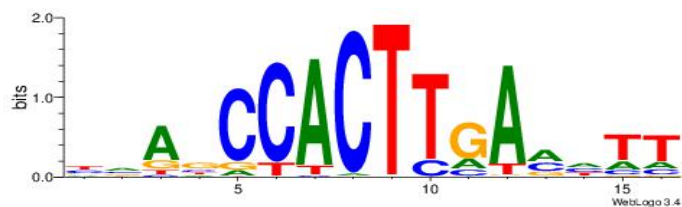
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0311723

Alignment:

BVABCCACTTGAMHTT
 ---DCCACGTGCV---

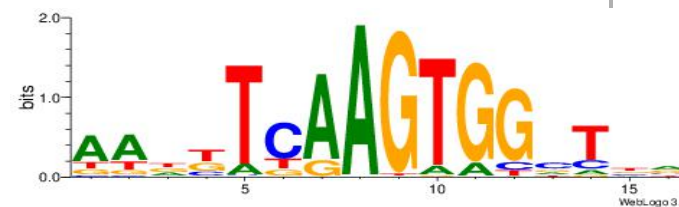
Original motif

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

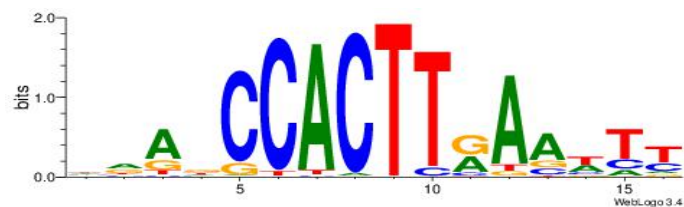
Number of overlap: 10
Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT
---DCCACGTGCV---

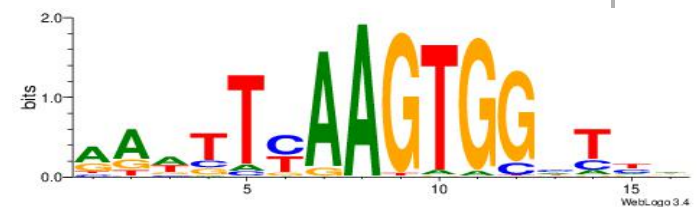
Original motif

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

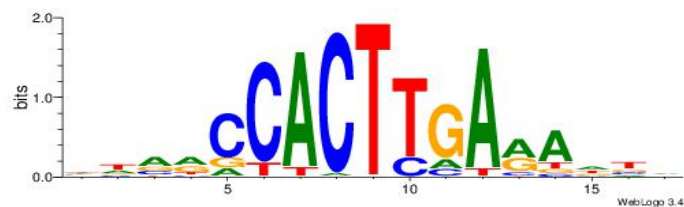
Alignment:

HDVRCCACTTGARADB
---DCCACGTGCV---

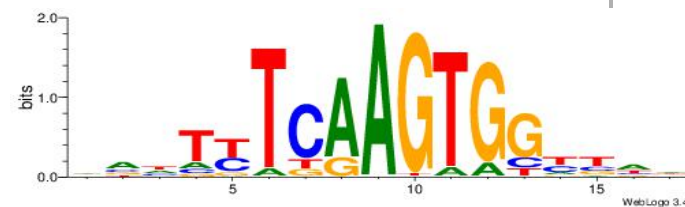
Original motif

Reverse complement motif

Consensus sequence: HDVRCCAATTGARADBD



Consensus sequence: DVDTKTCAAGTGGKBDH



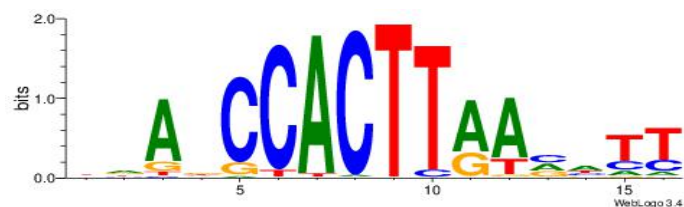
Motif ID: [UP00147](#)
Motif name: Nkx2-6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0345548

Alignment:

DDADCCACTTAAVHTT
---DCCACGTGCV---

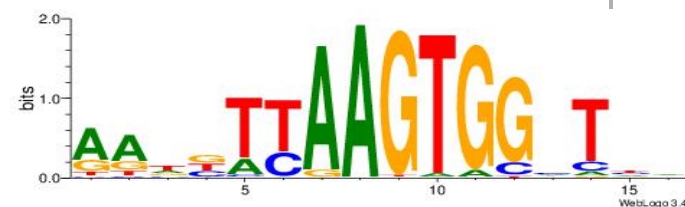
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



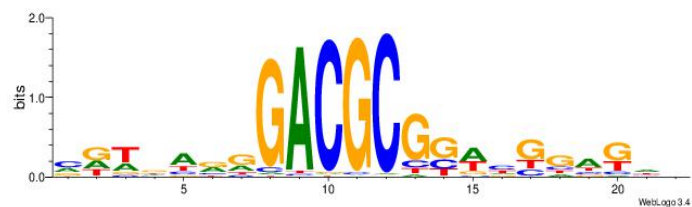
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0363818

Alignment:

VDWDARRGACGCGGWHGGAHV
 -----VGCACGTGGH-----

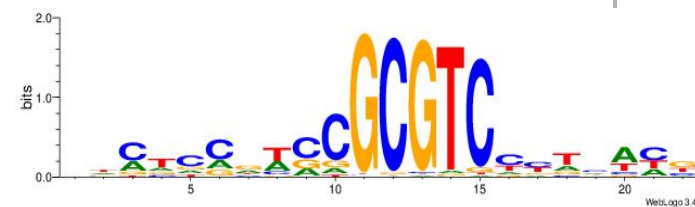
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



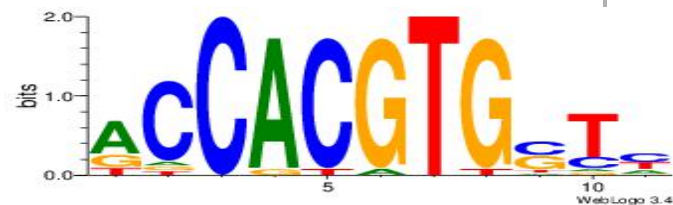
Dataset #: 2 Motif ID: 39 Motif name: MYCMAX

Original motif

Consensus sequence: RASCACGTGGT

Reverse complement motif

Consensus sequence: ACCACGTGSTM



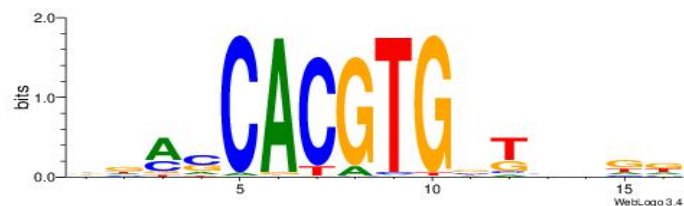
Best Matches for Motif ID 39 (Highest to Lowest)

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--

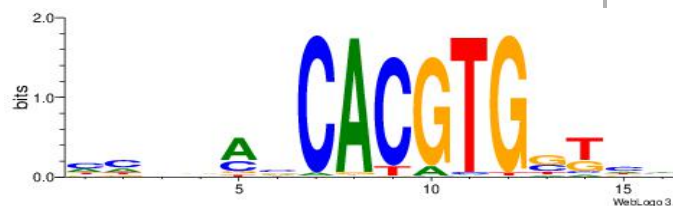
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



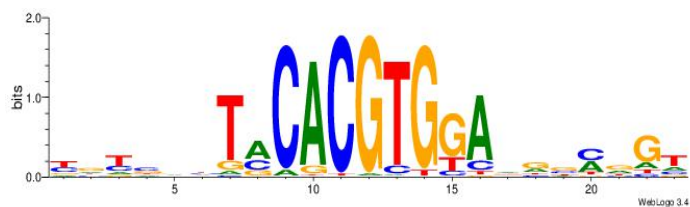
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.025477

Alignment:

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

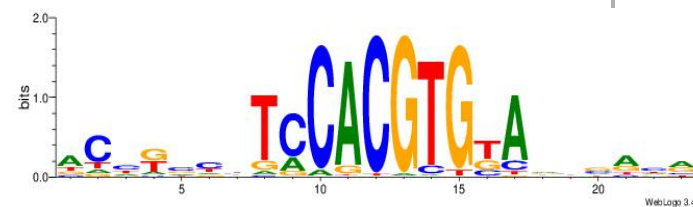
Original motif

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: Forward
 Position number: 6

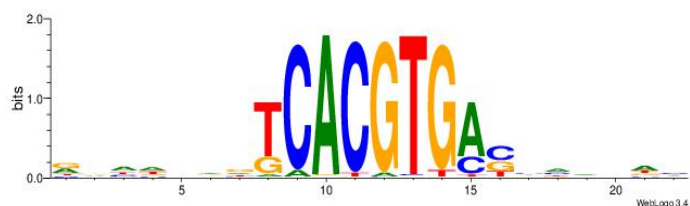
Number of overlap: 11
Similarity score: 0.033078

Alignment:

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

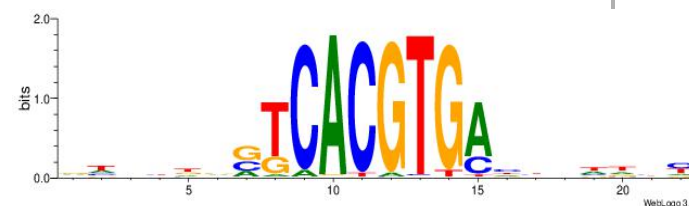
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



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

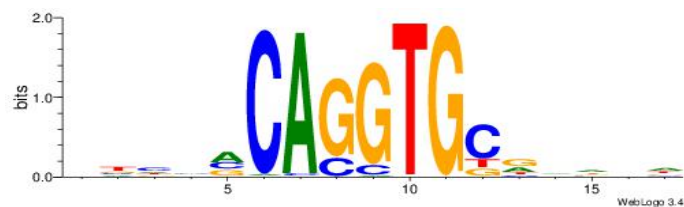
Alignment:

VBHHVCAGGTGCDVDHD
---ACCACGTGSTM---

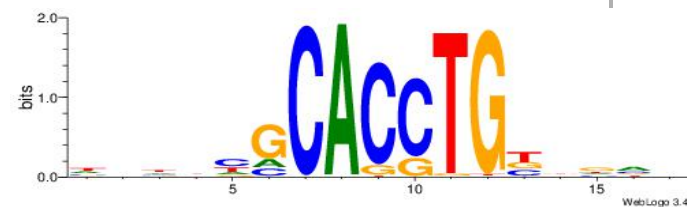
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



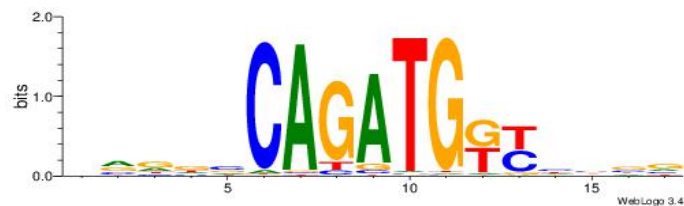
Motif ID: [UP00046](#)
Motif name: Tcfe2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0452419

Alignment:

HVDDVCAGATGKYHBBV
--RASCACGTGGT----

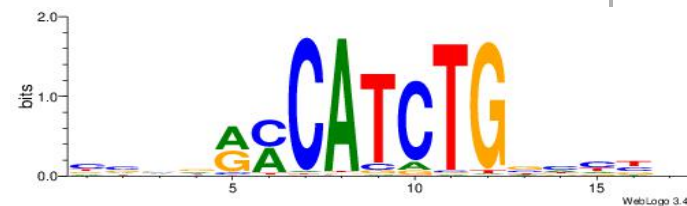
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHHBH



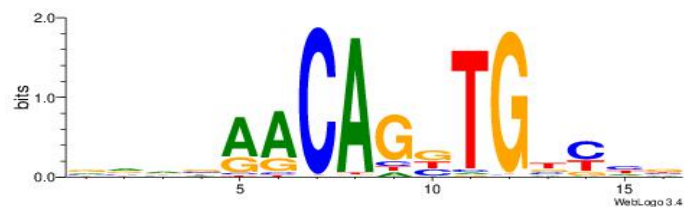
Motif ID: [UP00036](#)
 Motif name: Myf6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0471968

Alignment:

VVDBAACAGBTGBYHB
 ---RASCACGTGGT--

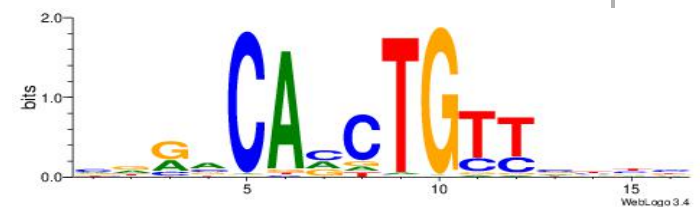
Original motif

Consensus sequence: VVDBAACAGBTGBYHB



Reverse complement motif

Consensus sequence: BDKVCABCTGTTBDBV



Motif ID: [UP00099](#)
 Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

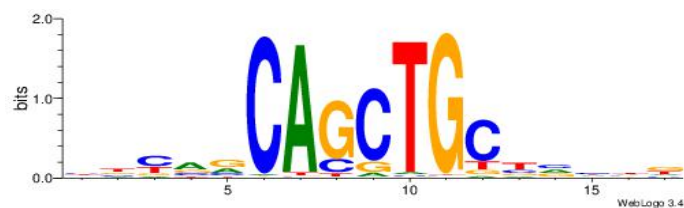
Number of overlap: 11
Similarity score: 0.0504418

Alignment:

BBYVVCAGCTGCBVHHD
---ACCACGTGSTM---

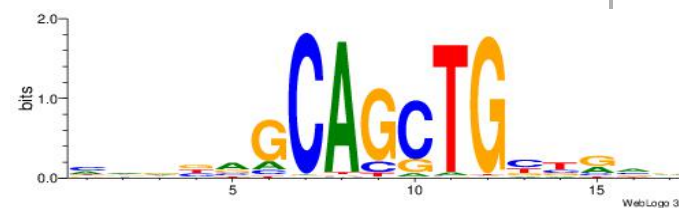
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKV



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

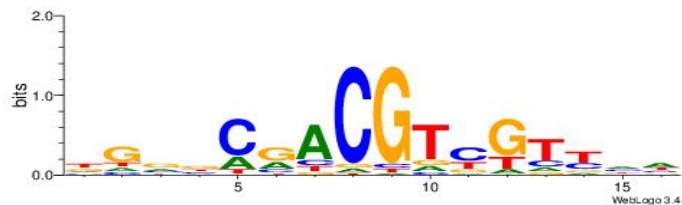
Alignment:

HHMACKACGTMGBVCD
---ACCACGTGSTM--

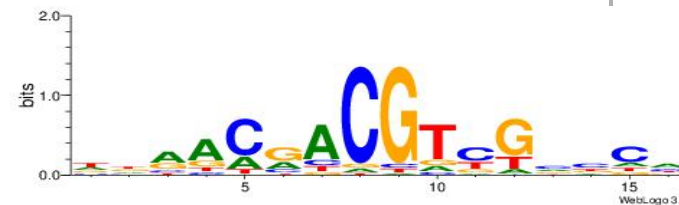
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYYH



Consensus sequence: HHMACKACGTMGBVCD



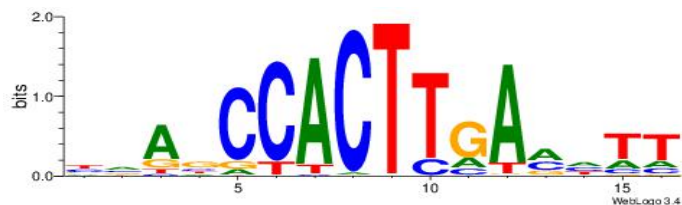
Motif ID: [UP00165](#)
Motif name: Titf1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0554094

Alignment:

BVABCCACTTGAMHTT
---ACCACGTGSTM---

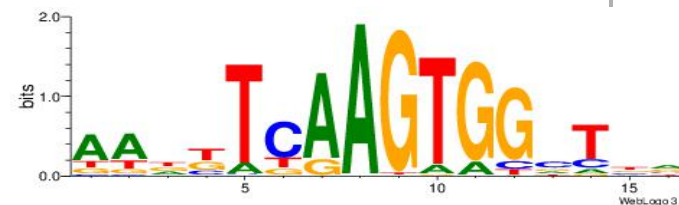
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



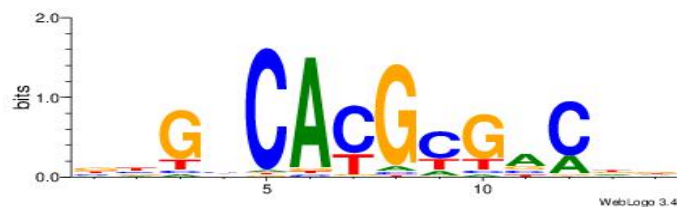
Motif ID: [UP00060](#)
 Motif name: Max_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0557594

Alignment:

HDGTCGCGTGDCVB
 -RASCACGTGGT--

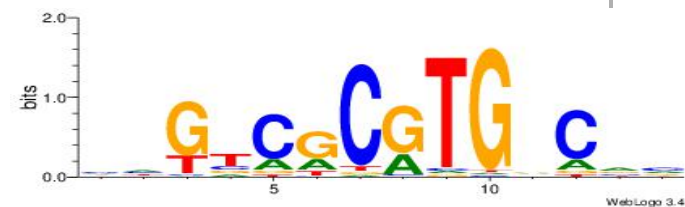
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



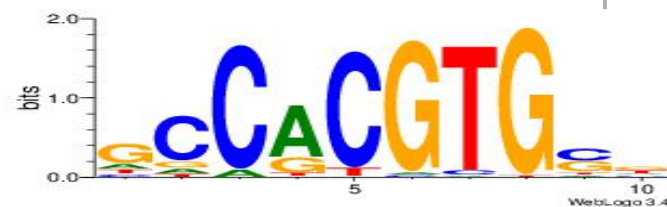
Dataset #: 2 Motif ID: 40 Motif name: Mycn

Original motif

Consensus sequence: HSCACGTGGC

Reverse complement motif

Consensus sequence: GCCACGTGSD



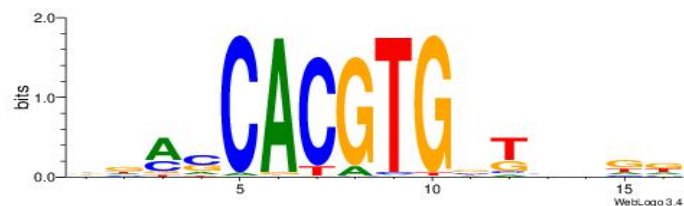
Best Matches for Motif ID 40 (Highest to Lowest)

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----

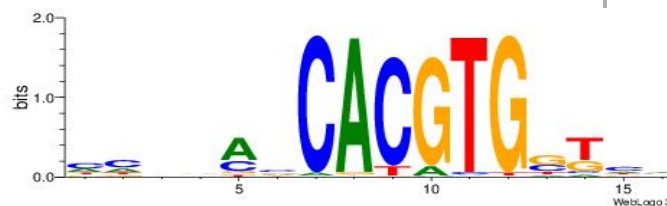
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



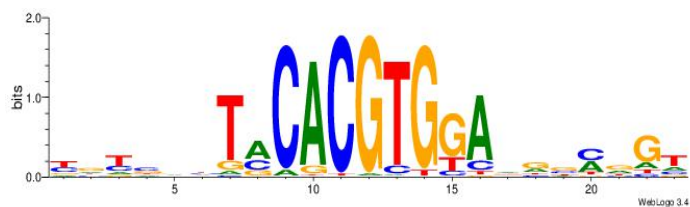
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:

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

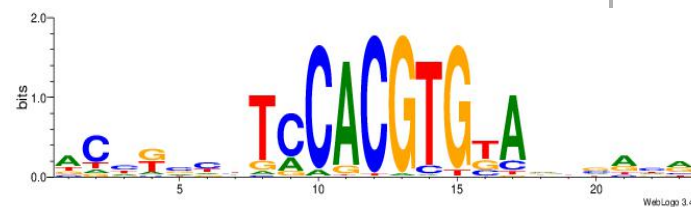
Original motif

Consensus sequence: YDYPDHTMCACGTGGADDBMDGT



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

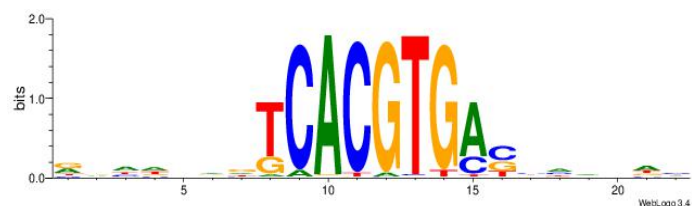
Number of overlap: 10
Similarity score: 0.0132858

Alignment:

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

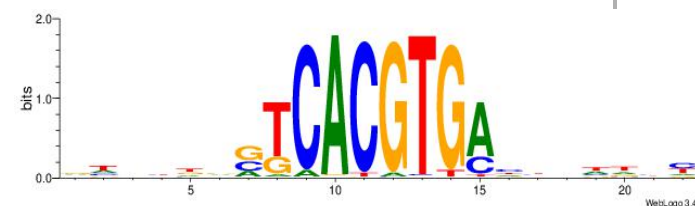
Original motif

Consensus sequence: 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: 5
Number of overlap: 10
Similarity score: 0.0227933

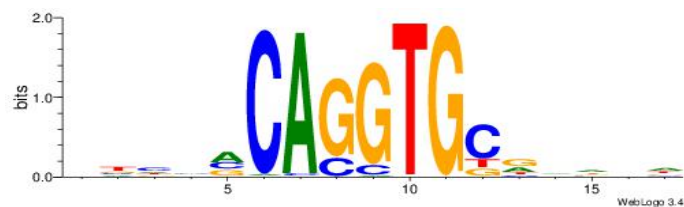
Alignment:

VBHHVCAGGTGCDVDHD
---GCCACGTGSD----

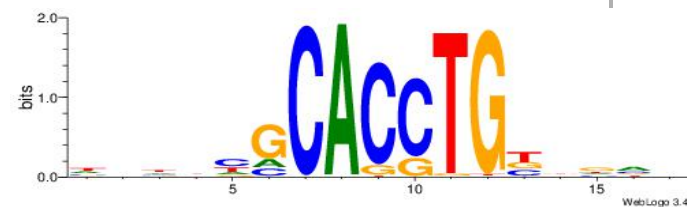
Original motif

Reverse complement motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Consensus sequence: DHDBHGCACCTGBDDVB



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

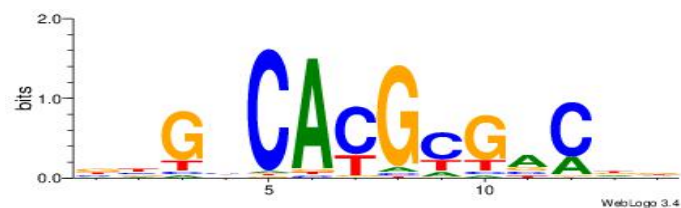
Alignment:

BBGHCACGCGACDD

--HSCACGTGGC--

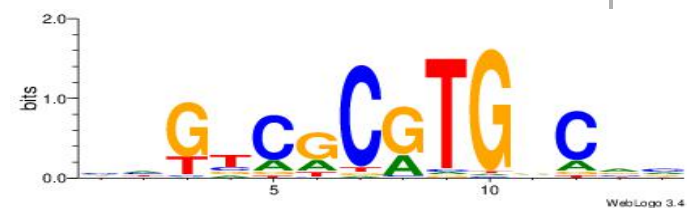
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



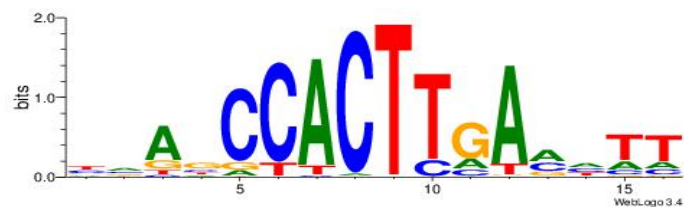
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0344833

Alignment:

BVABCCACTTGAMHTT
 ---GCCACGTGSD---

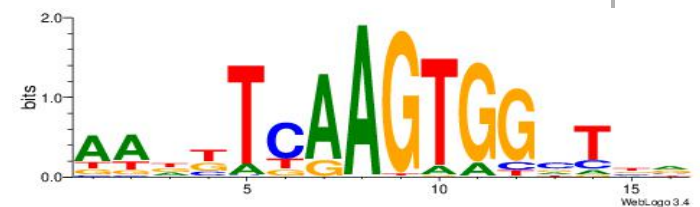
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



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

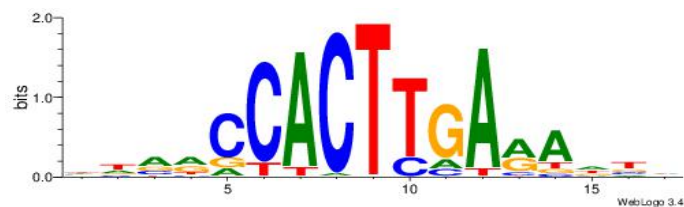
Number of overlap: 10
Similarity score: 0.035228

Alignment:

HDVRCCACTTGARADBD
---GCCACGTGSD----

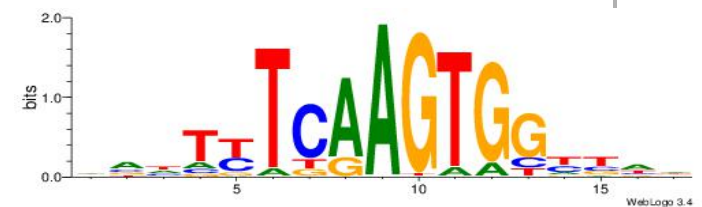
Original motif

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

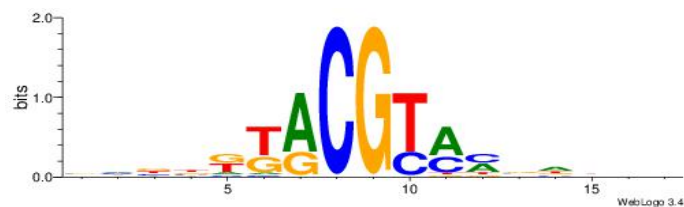
Alignment:

BVVDVRYACGTRYVBHB
----GCCACGTGSD---

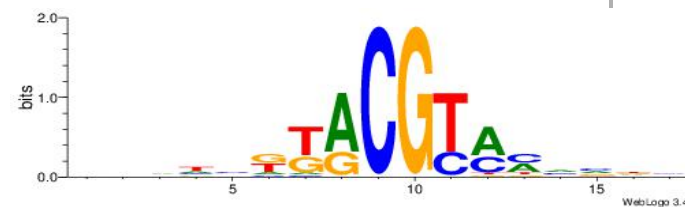
Original motif

Reverse complement motif

Consensus sequence: BHBBKKACGTMMVDBVB



Consensus sequence: BVVDVRYACGTRYVBHB



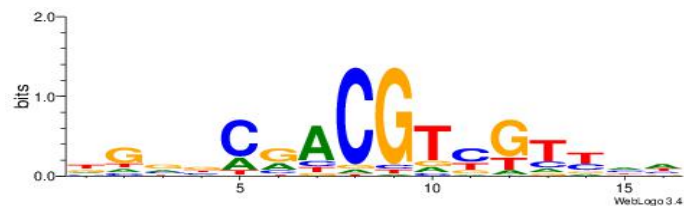
Motif ID: [UP00084](#)
Motif name: Gmeb1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.03725

Alignment:

HHMACKACGTMGBVCD
---HSCACGTGGC---

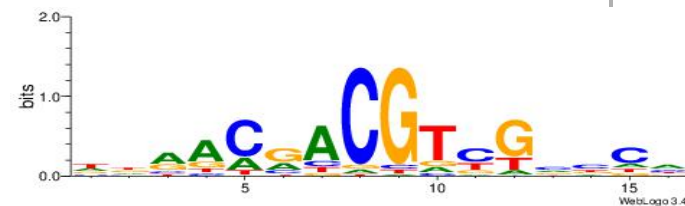
Original motif

Consensus sequence: DGVBCRACGTYGTYYH



Reverse complement motif

Consensus sequence: HHMACKACGTMGBVCD



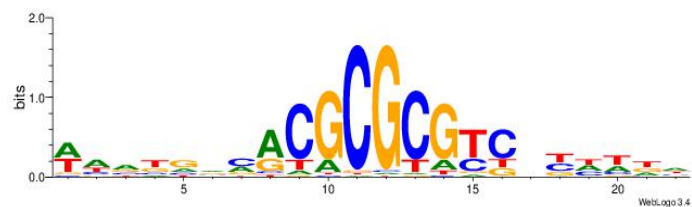
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0383187

Alignment:

WHVBVVMACGCGCGTCDYHWDH
 -----HSCACGTGGC-----

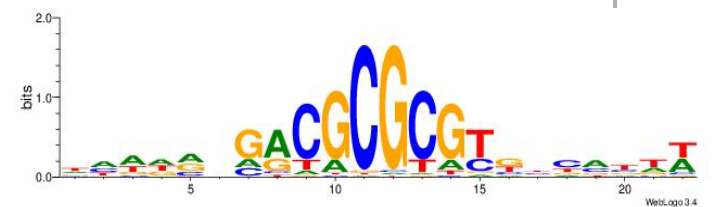
Original motif

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: BTHCCCTYB



Best Matches for Motif ID 41 (Highest to Lowest)

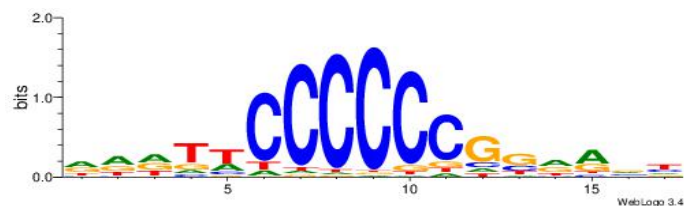
Motif ID: [UP00022](#)
 Motif name: Zfp740_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0090535

Alignment:

DDDTWCCCCCGGDRVH
 ---BTHCCCTYB----

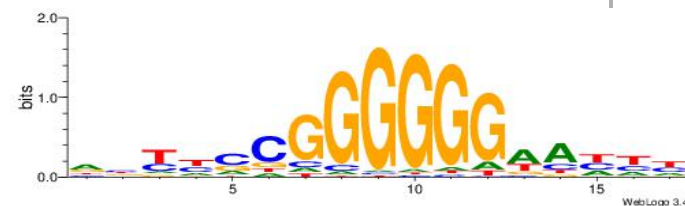
Original motif

Consensus sequence: DDDTWCCCCCGGDRVH



Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD



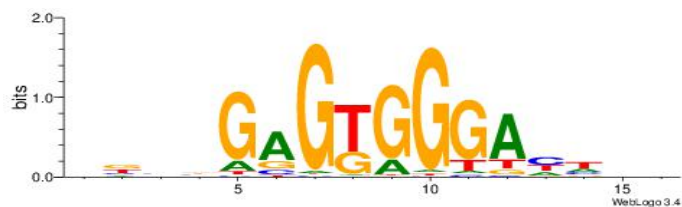
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.00910178

Alignment:

BBHBGAGTGGGAHHDB
 ---BKAGGGGDAD---

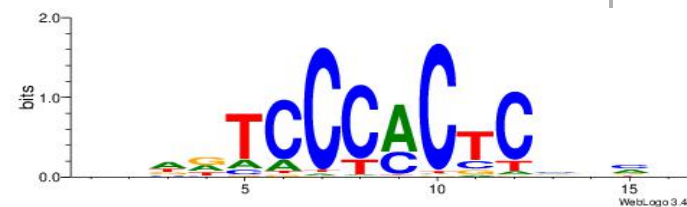
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV

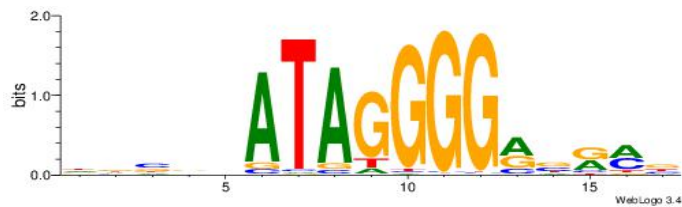


Motif ID: [UP00070](#)
 Motif name: Gcm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3

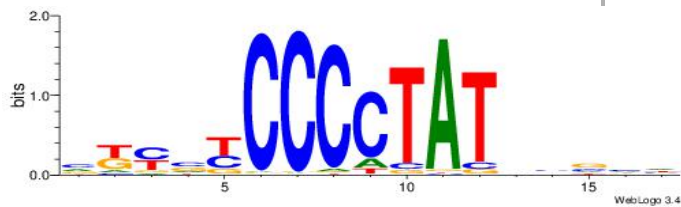
Number of overlap: 10
Similarity score: 0.0101177

Alignment:
DDBVHATAGGGGRBRMB
-----BKAGGGGDAD--

Original motif
Consensus sequence: DDBVHATAGGGGRBRMB



Reverse complement motif
Consensus sequence: BYMBKCCCTATDVBHD



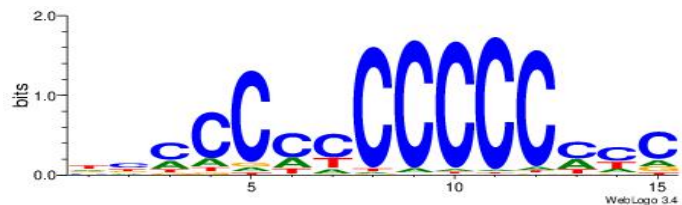
Motif ID: [UP00021](#)
Motif name: Zfp281_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0103225

Alignment:
GKRGGGGGGGGGGBD
BKAGGGGDAD-----

Original motif

Reverse complement motif

Consensus sequence: DBCCCCCCCCCMYC



Consensus sequence: GKRGGGGGGGGGGBD



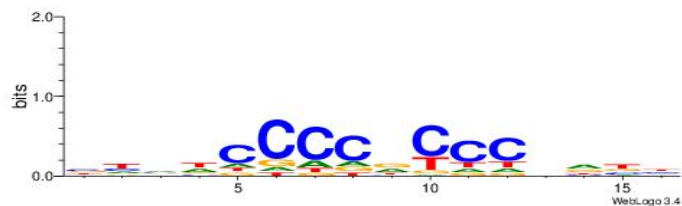
Motif ID: [UP00099](#)
Motif name: Ascl2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0126235

Alignment:

```
HVDVGGGGHGGGGDBHB  
-----BKAGGGGDAD--
```

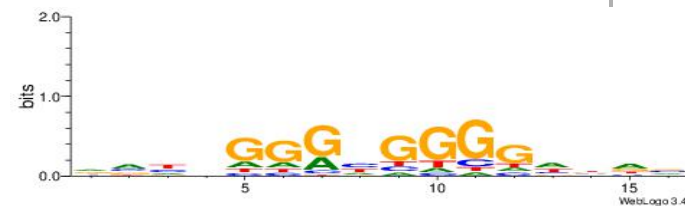
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGGHGGGGDBHB



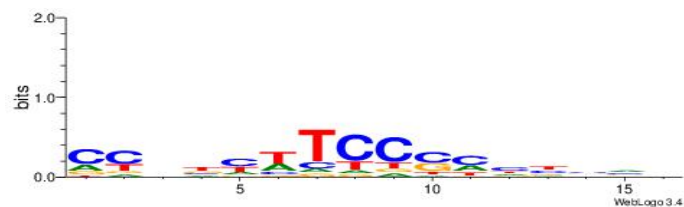
Motif ID: [UP00013](#)
 Motif name: Gabpa_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.013531

Alignment:

DBVVDRSGGAWKVHKG
 -BKAGGGGDAD-----

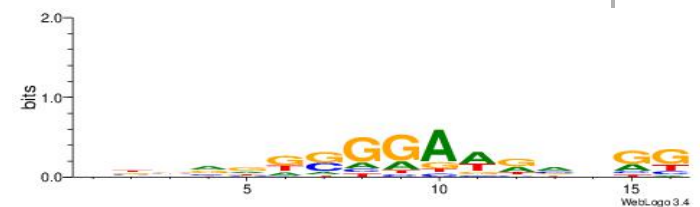
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVVDRSGGAWKVHKG

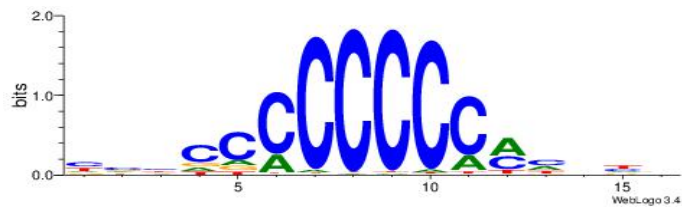


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

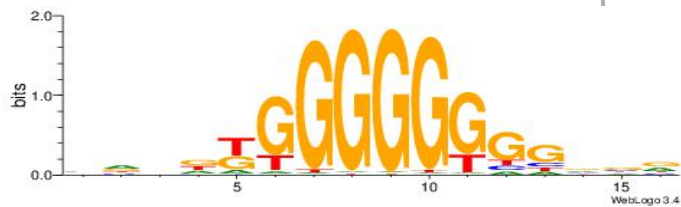
Number of overlap: 10
Similarity score: 0.0152996

Alignment:
BHHDYGGGGGGGGBVD
---BKAGGGGDAD---

Original motif
Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif
Consensus sequence: BHHDYGGGGGGGGBVD



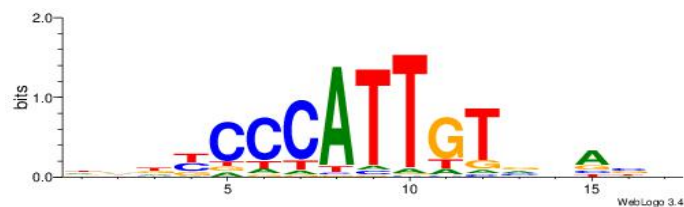
Motif ID: [UP00055](#)
Motif name: Hbp1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0176527

Alignment:
DDDYCCCATTGTVHABH
-BTHCCCCTYB-----

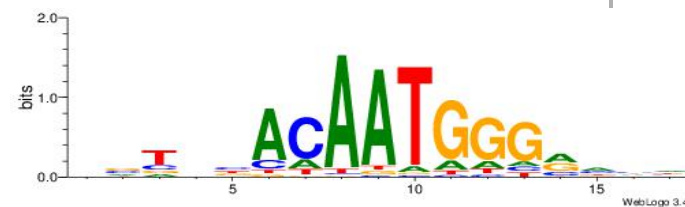
Original motif

Reverse complement motif

Consensus sequence: DDDYCCCATTGTVHABH



Consensus sequence: HBTHVACAATGGGMDHD



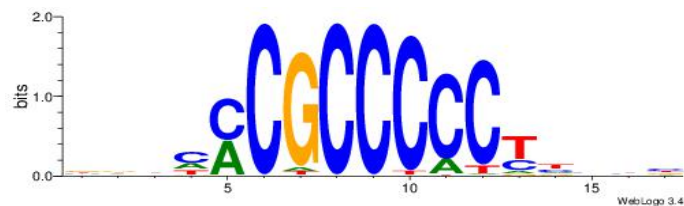
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0183345

Alignment:

BDHHMCGCCCCCTHVBB
-----BTHCCCTYB--

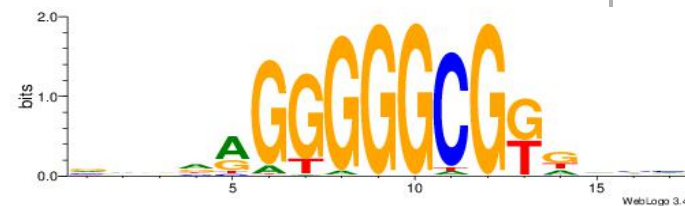
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



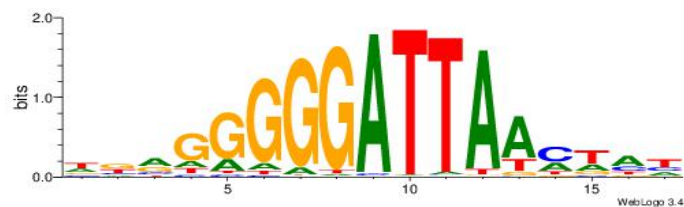
Motif ID: [UP00239](#)
 Motif name: Obox2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.019782

Alignment:

DBRGGGGGATTAAMTAH
 BKAGGGGDAD-----

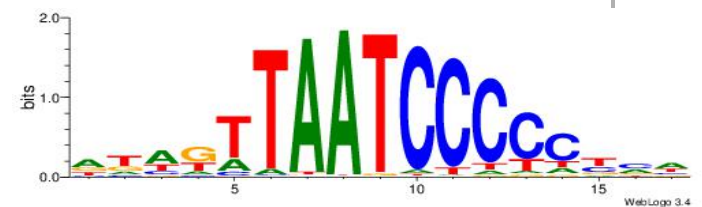
Original motif

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



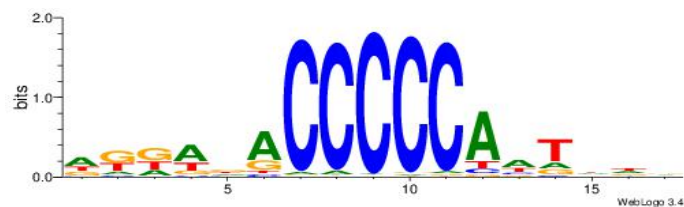
Best Matches for Motif ID 42 (Highest to Lowest)

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:
 DKKWDACCCCAHTDDV
 -----GGGGR TTCCCC

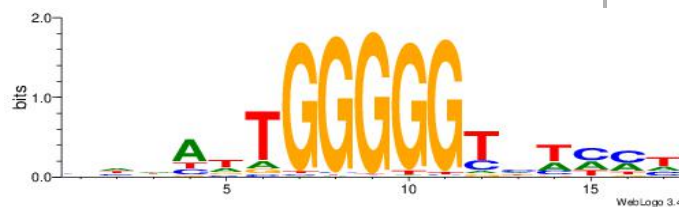
Original motif

Consensus sequence: DKKWDACCCCAHTDDV



Reverse complement motif

Consensus sequence: VDDAHTGGGGGTHWYYD



Motif ID: [UP00088](#)

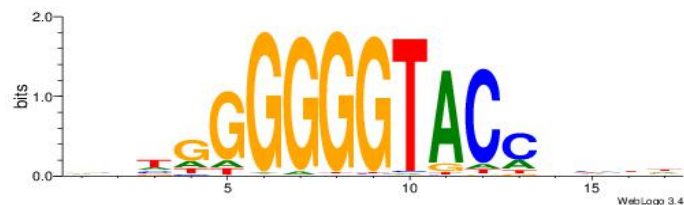
Motif name: Plagl1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0407901

Alignment:

DBHGGGGGGTACCHHD
 ----GGGRTTCCCC--

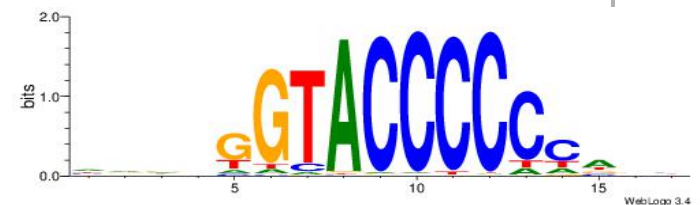
Original motif

Consensus sequence: DBHGGGGGGTACCHHD



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

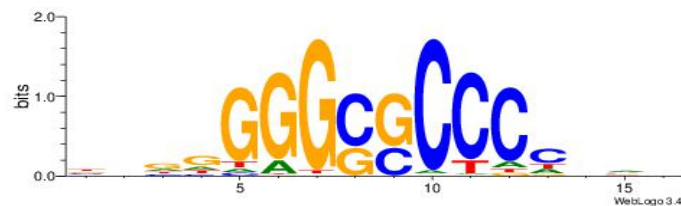
Alignment:

BHDGGGGSSCCCCBVV

--GGGGRTTCCCC---

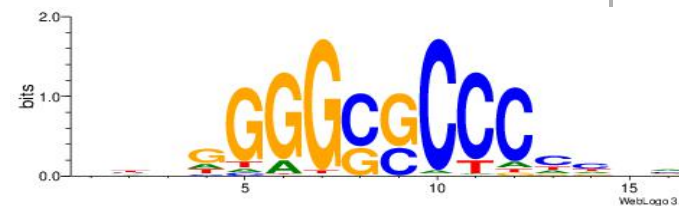
Original motif

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

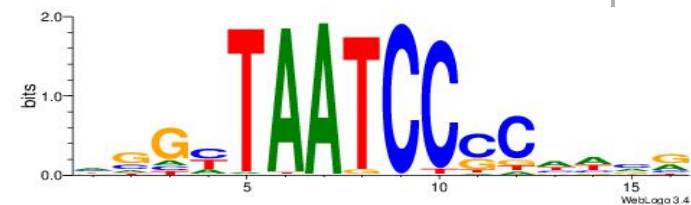
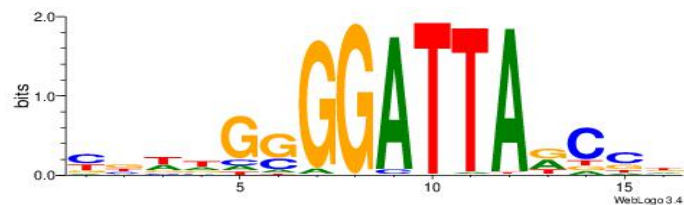
-GGGGAACKCCCC----

Original motif

Consensus sequence: YBWDGGGGATTARCCD

Reverse complement motif

Consensus sequence: DGGMTAATCCCCDWBK



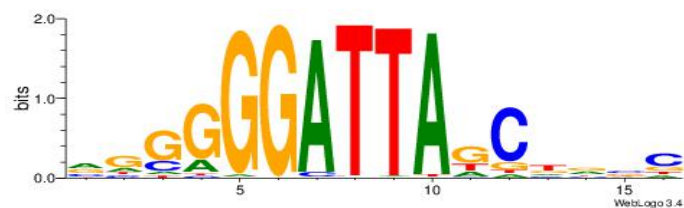
Motif ID: [UP00265](#)
 Motif name: Pitx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.048533

Alignment:

GBHDGCTAATCCCCCB
 ---GGGGAACKCCC--

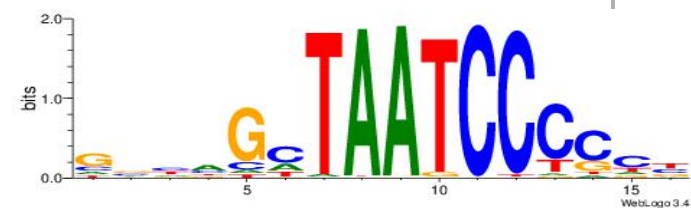
Original motif

Consensus sequence: VGGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



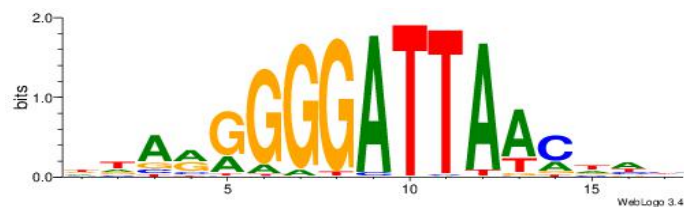
Motif ID: [UP00216](#)
 Motif name: Obox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0502644

Alignment:

DHDGTTAATCCCCKTDD
 --GGGGAACKCCC-----

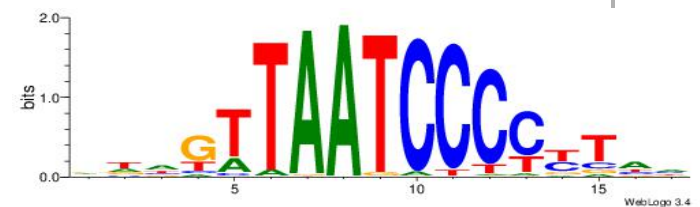
Original motif

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

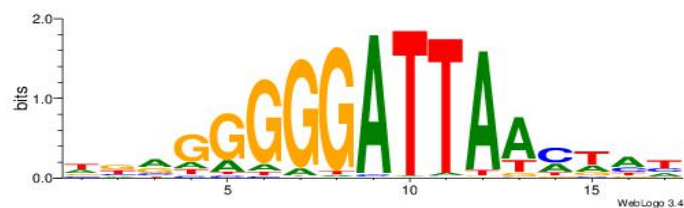
Number of overlap: 11
Similarity score: 0.0515498

Alignment:

HTARTTAATCCCCCKBD
--GGGGAACKCCC----

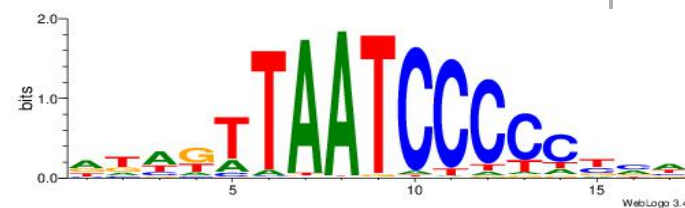
Original motif

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

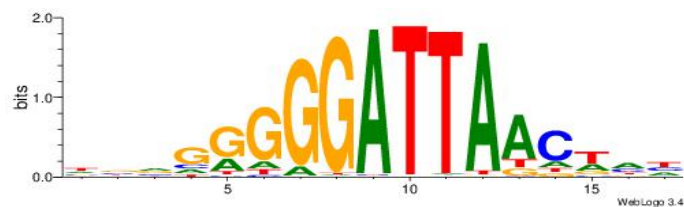
Alignment:

HHWGTTAATCCCCBBH
--GGGGAACKCCC----

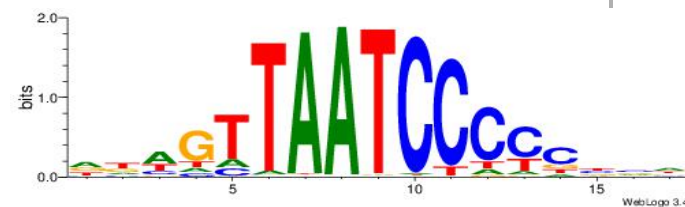
Original motif

Reverse complement motif

Consensus sequence: HBVGGGGGATTAACWHH



Consensus sequence: HHWGTTAATCCCCBBH



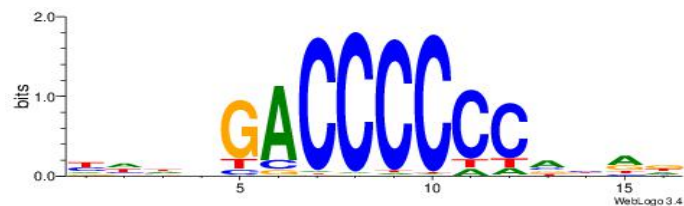
Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.052761

Alignment:

```
HKBBGGGGGGGTCVHHH  
-----GGGRRTCCCC
```

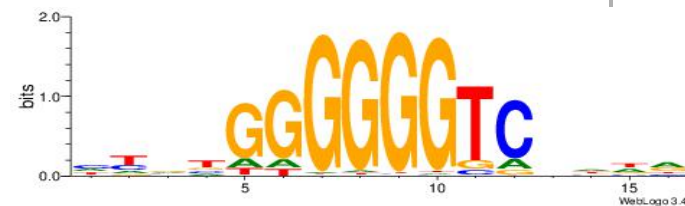
Original motif

Consensus sequence: HHHVGACCCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGGTCVHHH



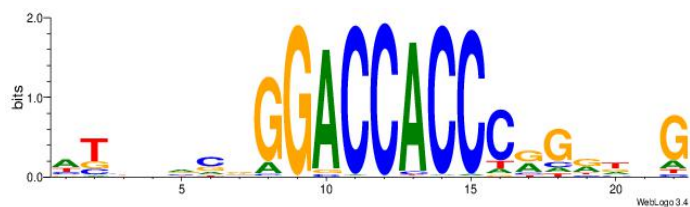
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0555704

Alignment:

CBDMCMGGGTGGTCCHVBVBAH
 -----GGGGAACKCCC-----

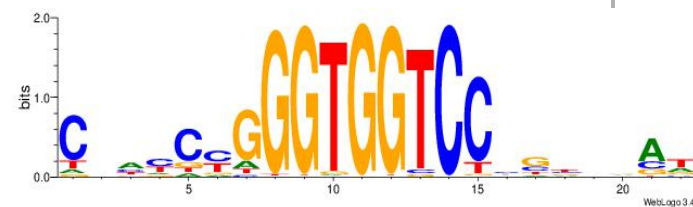
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



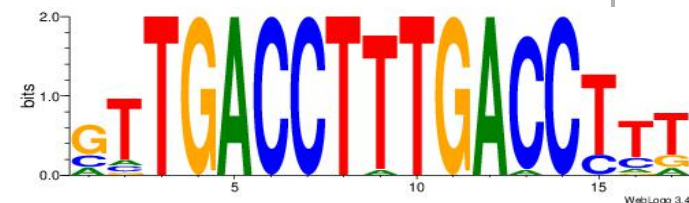
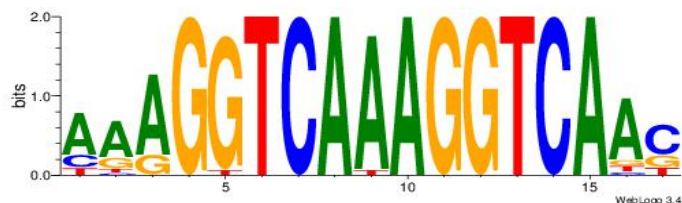
Dataset #: 2 Motif ID: 43 Motif name: NR1H2RXRA

Original motif

Consensus sequence: AAAGGTCAAAGGTCAAC

Reverse complement motif

Consensus sequence: GTTGACCTTTGACCTTT



Best Matches for Motif ID 43 (Highest to Lowest)

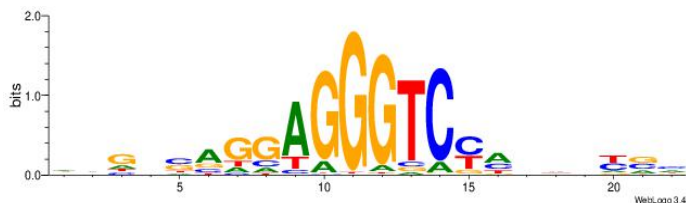
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0538452

Alignment:

DVMHHDHKGACCCTCCTSVCBH
 -----GTTGACCTTTGACCTTT

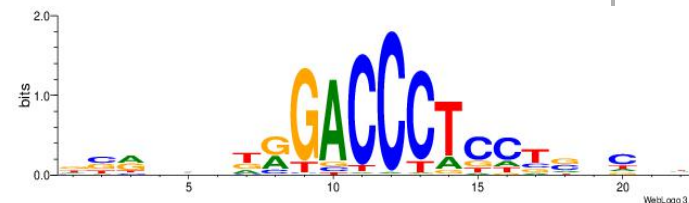
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Motif ID: [UP00032](#)

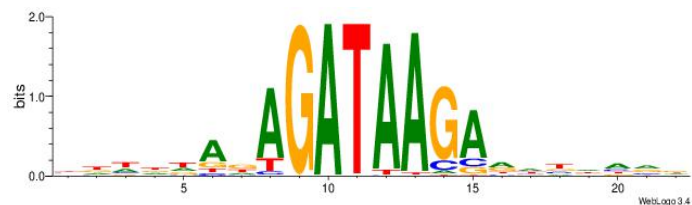
Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0545098

Alignment:

BDHDDADAGATAAGADHBDHVD
 -----AAAGGTCAAAGGTCAAC

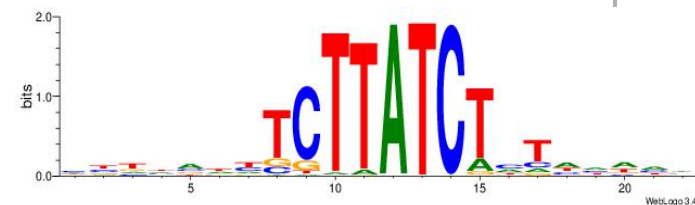
Original motif

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

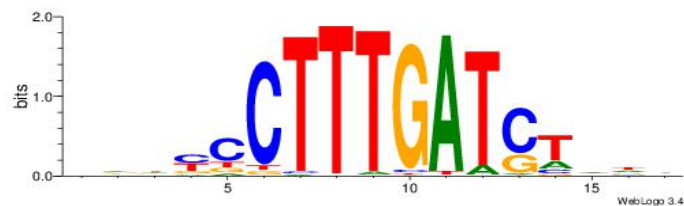
Similarity score: 0.521114

Alignment:

VDDAGATCAAAGGKDDD-
-AAAGGTCAAAGGTCAAC

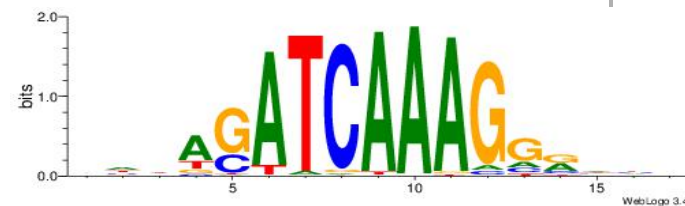
Original motif

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: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.527825

Alignment:

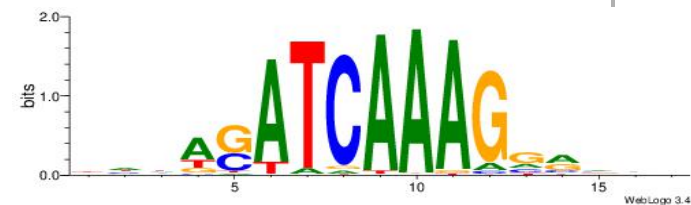
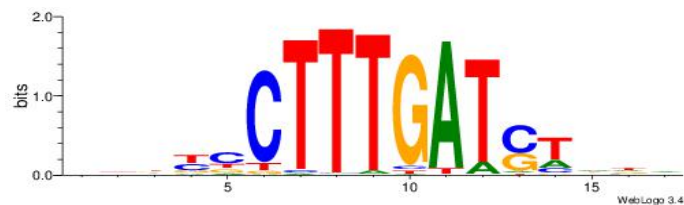
-DDDYCCTTTGATSTDDV
GTTGACCTTTGACCTTT-

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

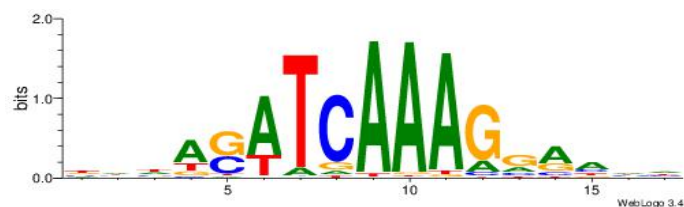
Consensus sequence: BDDASATCAAAGGMDDD



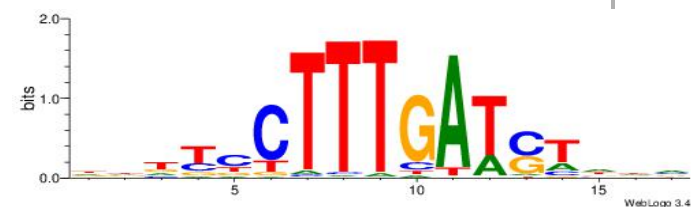
Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.531154

Alignment:
 BHHASATCAAAGGAHHH-
 -AAAGGTCAAAGGTCAAC

Original motif
 Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif
 Consensus sequence: HHHTCCTTTGATSTHHV



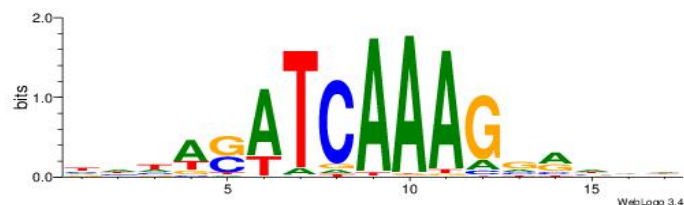
Motif ID: [UP00058](#)

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-

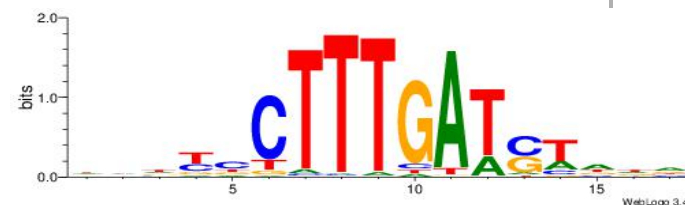
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



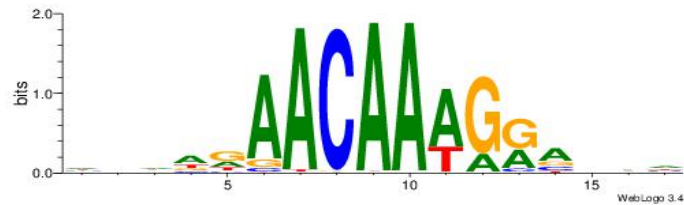
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.544403

Alignment:

HBDDRAACAAAGRABHH-
-AAAGGTCAAAGGTCAAC

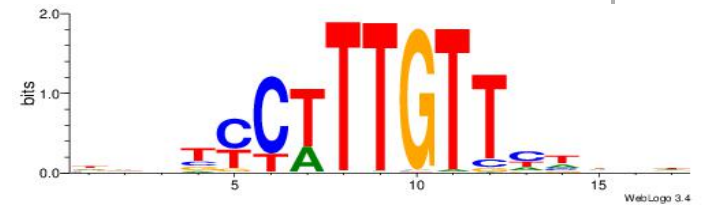
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHTMCTTTGTTMDDVH



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:

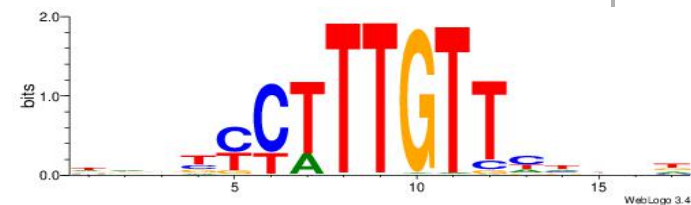
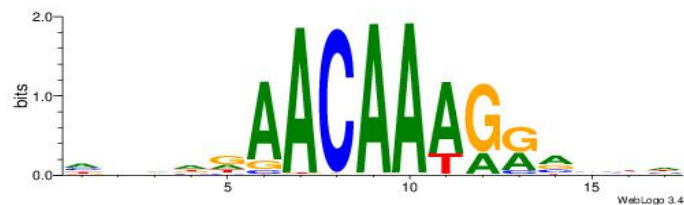
-HHBBMCTTTGTTHDDBH
GTTGACCTTTGACCTTT-

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

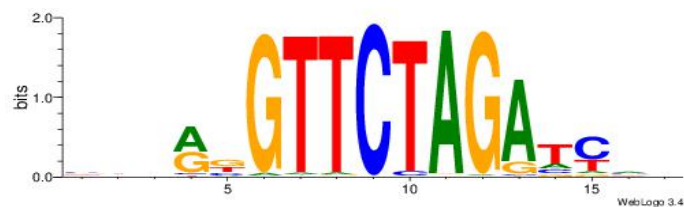


Motif ID: [UP00019](#)
 Motif name: Zbtb12_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.550511

Alignment:
 -BBGATCTAGAACBKHDB
 GTTGACCTTTGACCTTT-

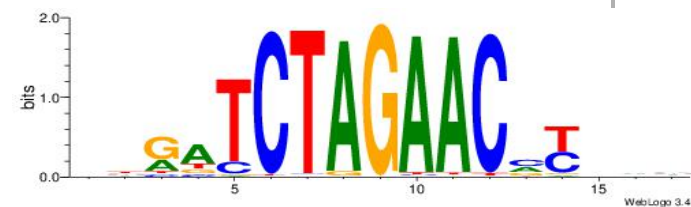
Original motif

Consensus sequence: BDHRBGTTCTAGATCVB



Reverse complement motif

Consensus sequence: BBGATCTAGAACBKHDB



Motif ID: [UP00046](#)

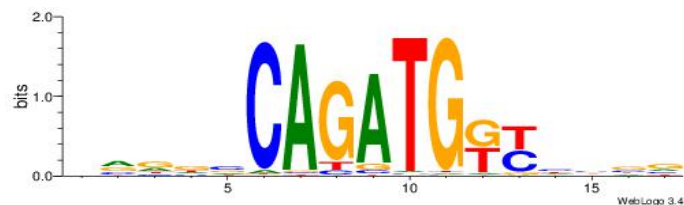
Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 16
 Similarity score: 0.552064

Alignment:

-HVDDVCAGATGKYHBBV
 AAAGGTCAAAGGTCAAC-

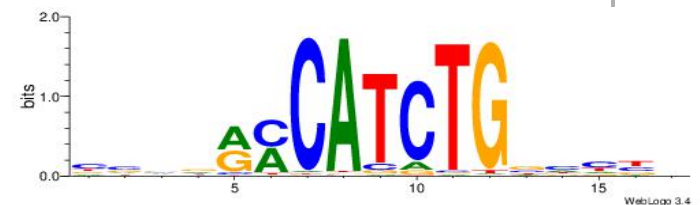
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHHBH



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

Original motif

Consensus sequence: AAGGTCAC

Reverse complement motif

Consensus sequence: GTGACCTT



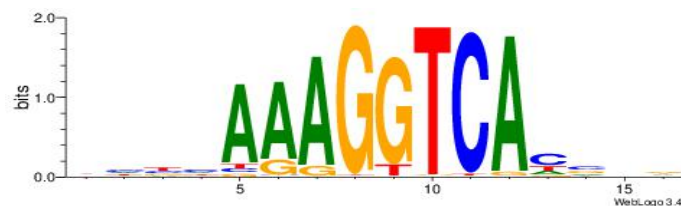
Best Matches for Motif ID 44 (Highest to Lowest)

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

Alignment:
 HHVGTGACCTTTDVDD
 ---GTGACCTT-----

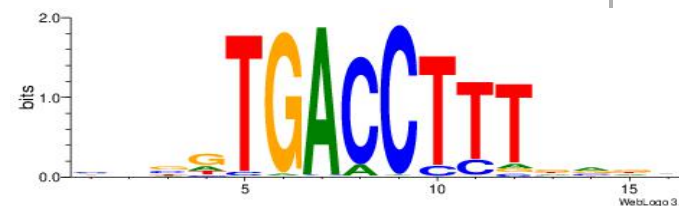
Original motif

Consensus sequence: DHBHAAAGGTCACVHD



Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD



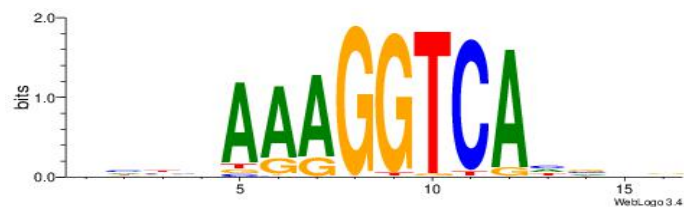
Motif ID: [UP00009](#)
 Motif name: Nr2f2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0074527

Alignment:

DHBHAAAGGTCAHVHB
 -----AAGGTCAC---

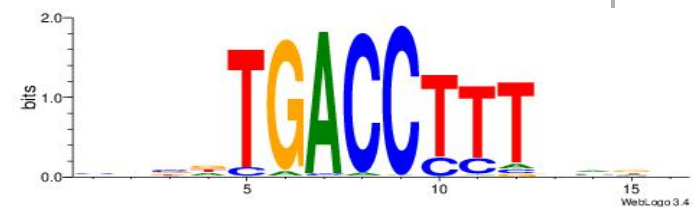
Original motif

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

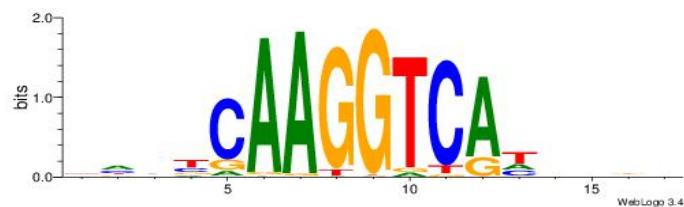
Number of overlap: 8
Similarity score: 0.01542

Alignment:

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

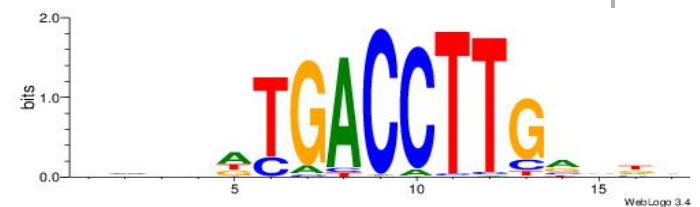
Original motif

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: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0395644

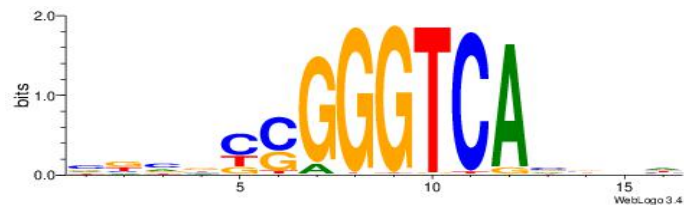
Alignment:

VBVBCSGGGTCAVBBH
-----AAGGTCAC---

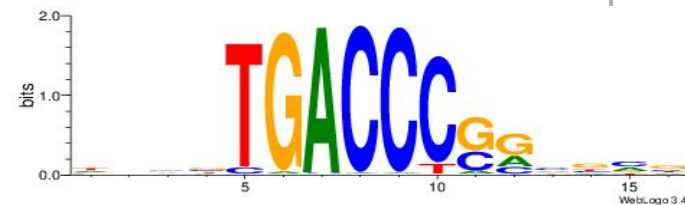
Original motif

Reverse complement motif

Consensus sequence: VBVBCTGGGTCAVBBH



Consensus sequence: HVBVTGACCCSGBVBV



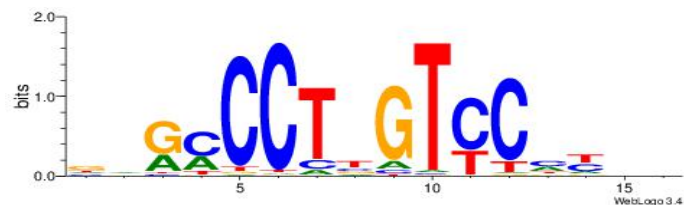
Motif ID: [UP00082](#)
Motif name: Zfp187_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0407874

Alignment:

DDGMCCTBGTCCHYHV
GTGACCTT-----

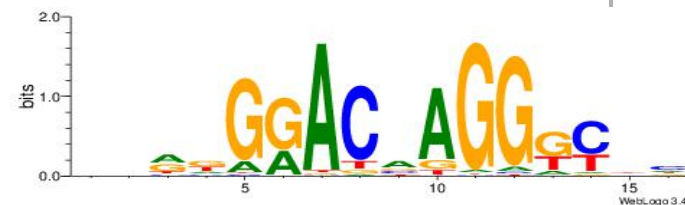
Original motif

Consensus sequence: DDGMCCTBGTCCHYHV



Reverse complement motif

Consensus sequence: VHMDGGACVAGGRCDH



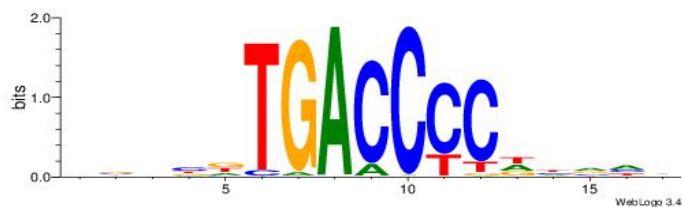
Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0422933

Alignment:

DBHBDTGACCCCDHVHB
 ----GTGACCTT-----

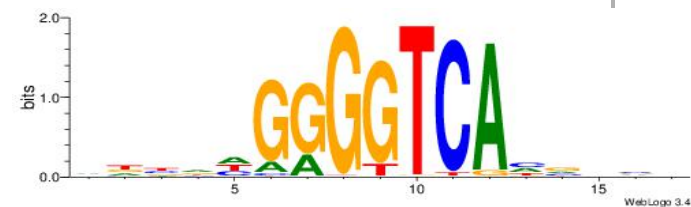
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHD



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

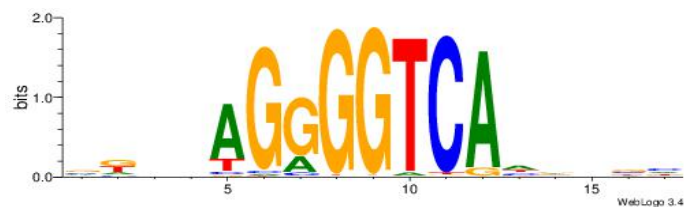
Number of overlap: 8
Similarity score: 0.0447444

Alignment:

VKBBAGGGGTCAHDBBH
-----AAGGTCAC-----

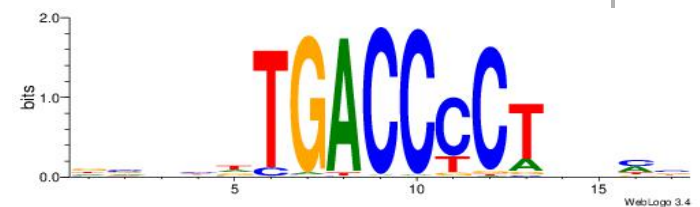
Original motif

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

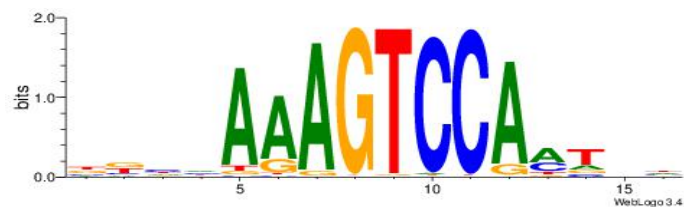
Alignment:

BBHHAAAGTCCAMTHH
-----AAGGTCAC---

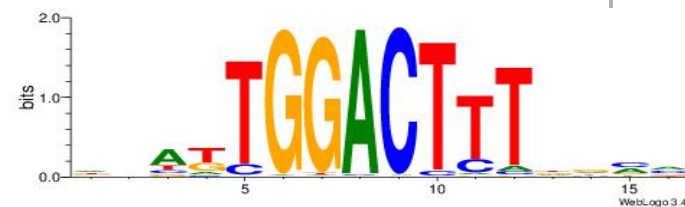
Original motif

Reverse complement motif

Consensus sequence: BBHHAAAGTCCAMTHH



Consensus sequence: HHAYTGGACTTTTHDBV



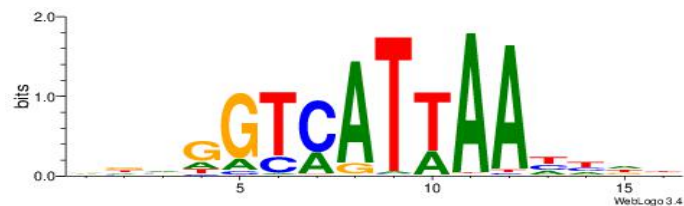
Motif ID: [UP00197](#)
 Motif name: Hoxc9
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0497679

Alignment:

VDHHTTAATGACCBHV
 -----GTGACCTT--

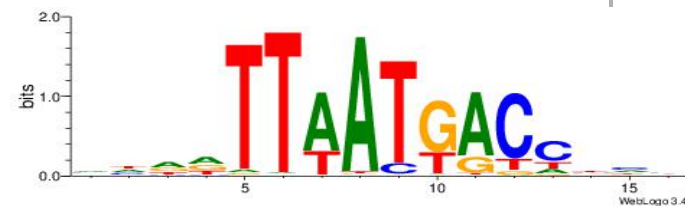
Original motif

Consensus sequence: VDVGGTCATTAAHHDB



Reverse complement motif

Consensus sequence: VDHHTTAATGACCBHV



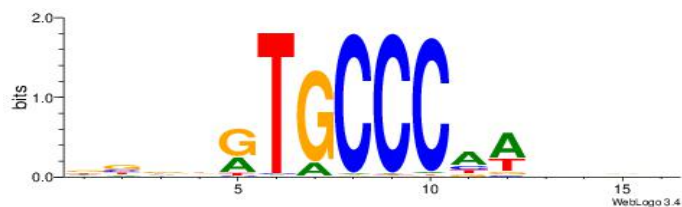
Motif ID: [UP00035](#)
 Motif name: Hic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0500062

Alignment:

DBDDRTGCCCCAWDHDV
 ----GTGACCTT----

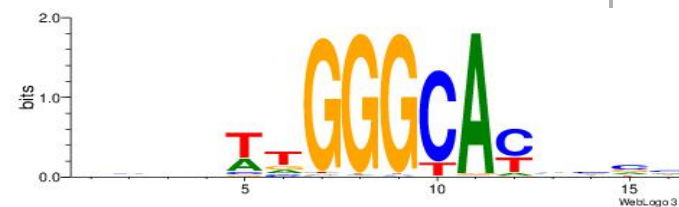
Original motif

Consensus sequence: DBDDRTGCCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



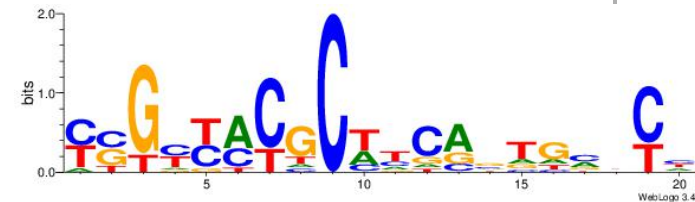
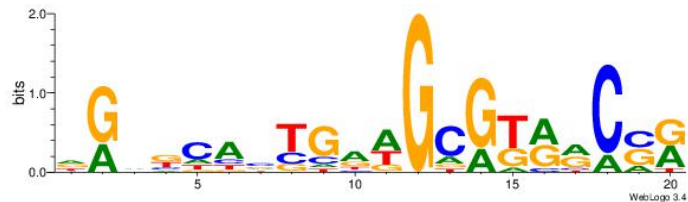
Dataset #: 2 Motif ID: 45 Motif name: Pax5

Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR

Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBCD



Best Matches for Motif ID 45 (Highest to Lowest)

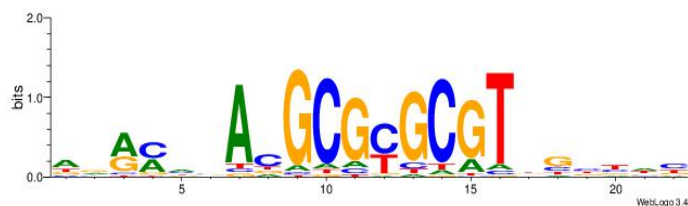
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0499537

Alignment:

DDRMHBACGCGYGCGTDGBBDB
 -DGVBCABTGDWGCGRRCR-

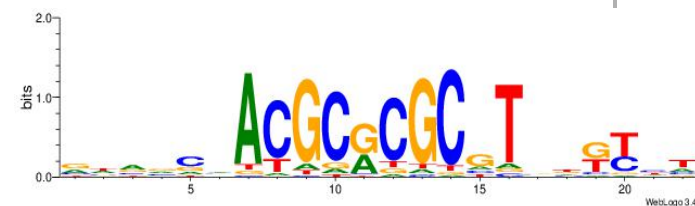
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCTBHRKHD



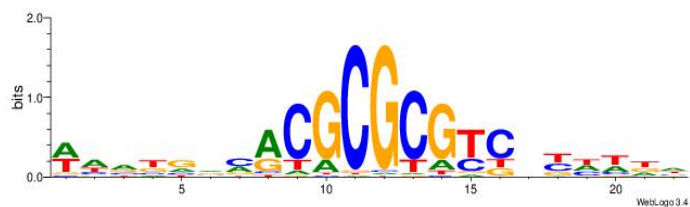
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0520196

Alignment:

HDWHMHGACGCGCGTRBVVBHW
 DGVBCABTGDWGCGRRCRCSR--

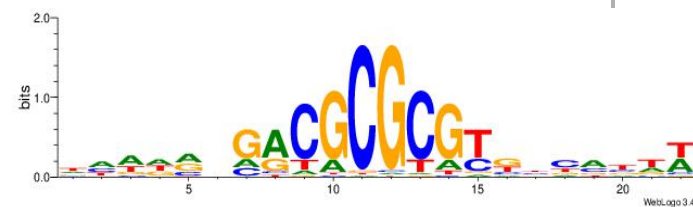
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW

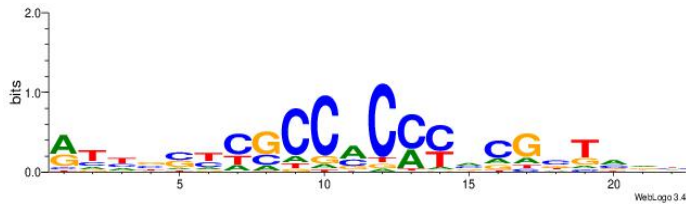


Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2

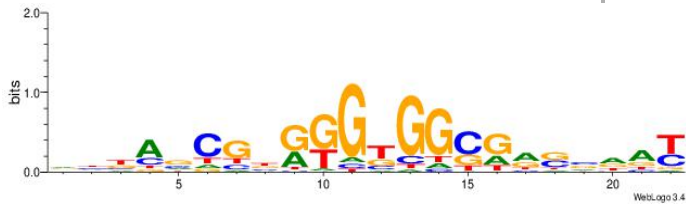
Number of overlap: 20
Similarity score: 0.0542764

Alignment:
HDBABCGBKRGYGGCGMSBHAK
-DGVBCABTGDWGCGRRCR-

Original motif
Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif
Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



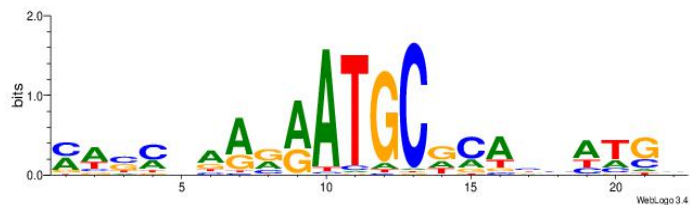
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.0560636

Alignment:
DCATDBTGHGCATKMTTBRWR
--MSGKKRCGCWDCABTGBCD

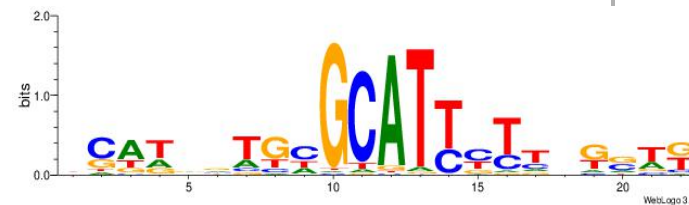
Original motif

Reverse complement motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Consensus sequence: DCATDBTGHGCATKMTTBRSWR



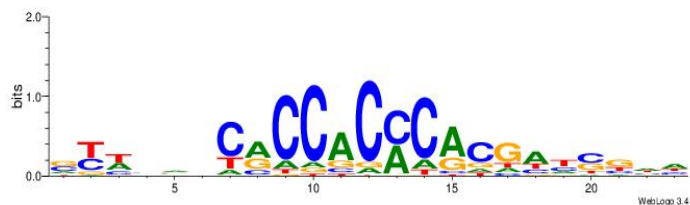
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0595671

Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
DGVBCABTGDWCGKRRCSR---

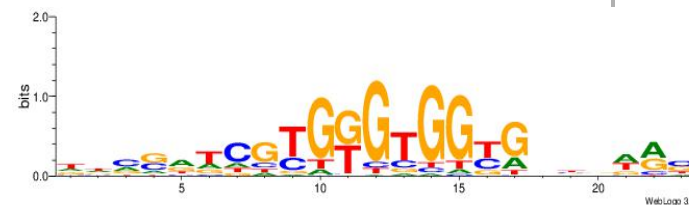
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



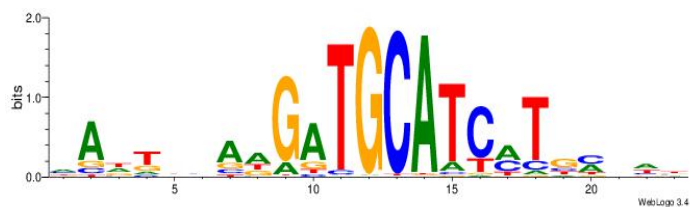
Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0602559

Alignment:

HADTBVADGATGCATCMTGMVHB
 DGVBCABTGDWGCGRRCRCSR---

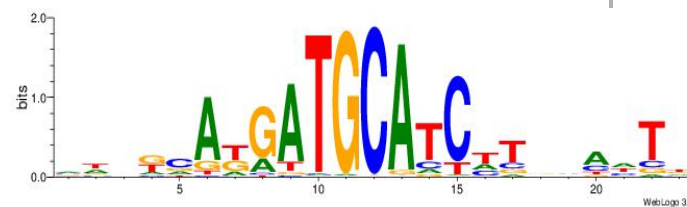
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH

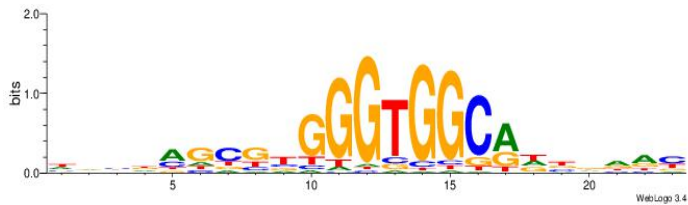


Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

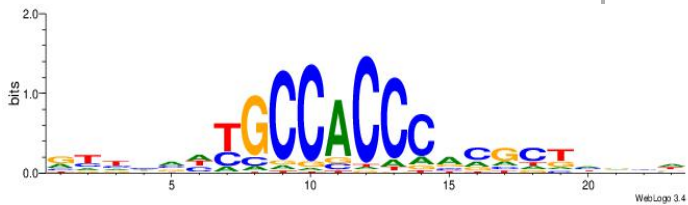
Number of overlap: 20
Similarity score: 0.0607506

Alignment:
HVBDAGCGBGGGTGGCRDBDDDB
DGVBCABTGDWGCGRRCR---

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



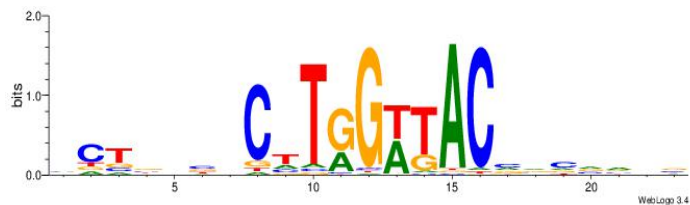
Motif ID: [UP00098](#)
Motif name: Rfx3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 20
Similarity score: 0.0611227

Alignment:
BDBBVBVGTAWCCAAGVBHBAGB
MSGKKRCGCWDCABTGBBCD---

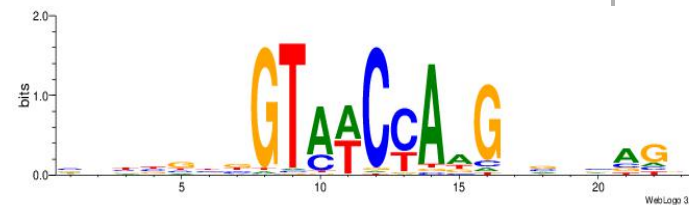
Original motif

Reverse complement motif

Consensus sequence: VCTBHBVCTTGGWTACVWWWVDB



Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



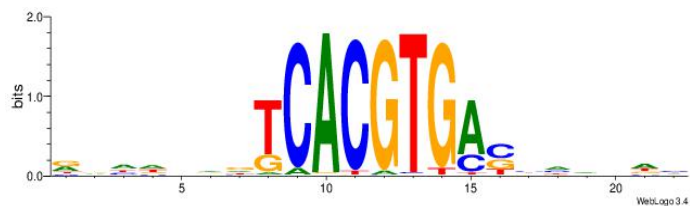
Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.0611361

Alignment:

RDHDBVDTACGTGASBHVVDH
--MSGKKRCGCWDCABTGBBCD

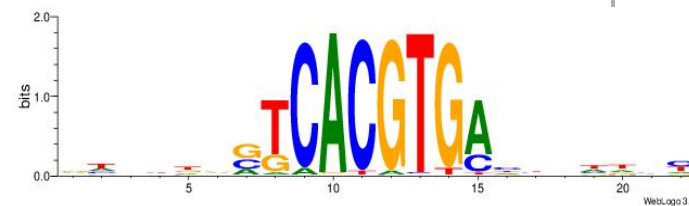
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVVDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



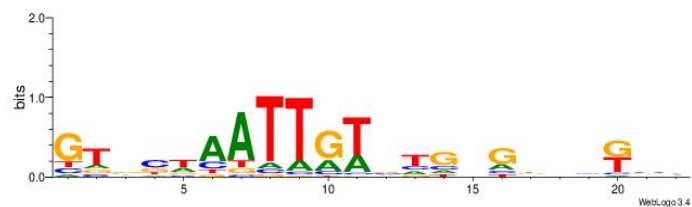
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.061403

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 DGVBCABTGDWGCGRRCR--

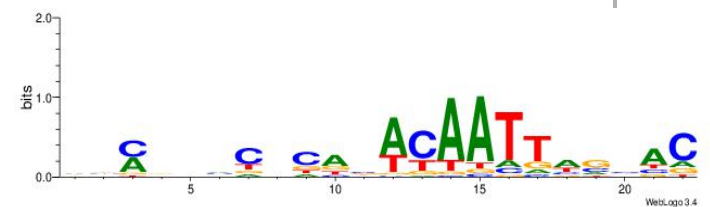
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



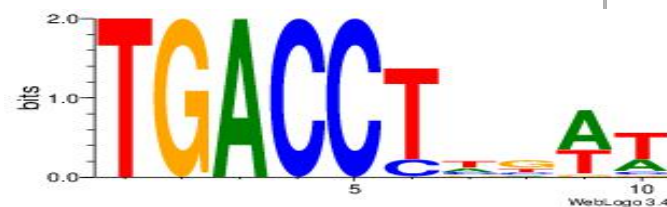
Dataset #: 2 Motif ID: 46 Motif name: RORA_1

Original motif

Consensus sequence: AWVDAGGTCA

Reverse complement motif

Consensus sequence: TGACCTDVWT



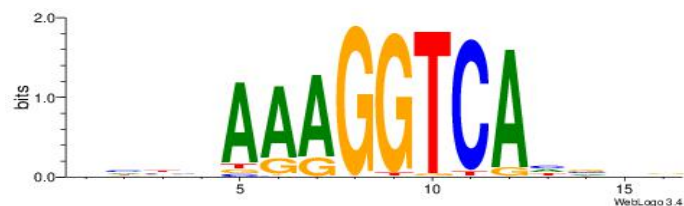
Best Matches for Motif ID 46 (Highest to Lowest)

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----

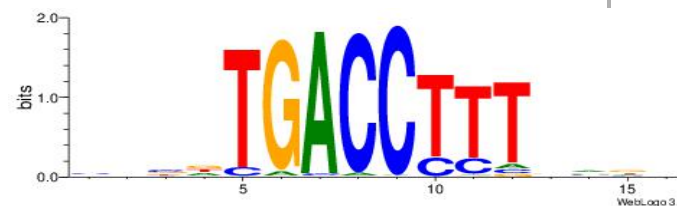
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



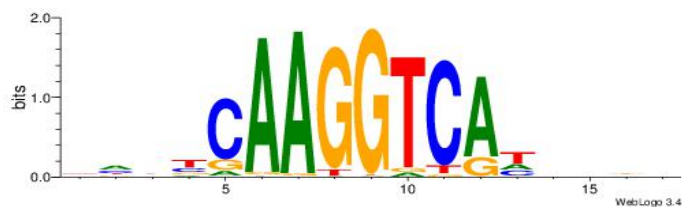
Motif ID: [UP00079](#)
 Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0176661

Alignment:

HHBVHTGACCTTGVDHD
 -----TGACCTDVWT--

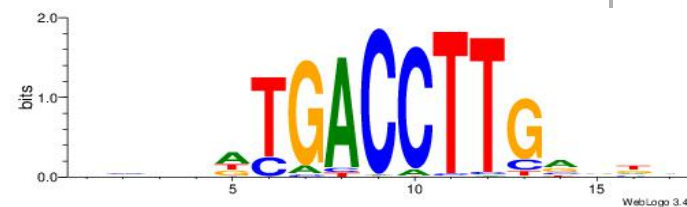
Original motif

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: Forward
 Position number: 3

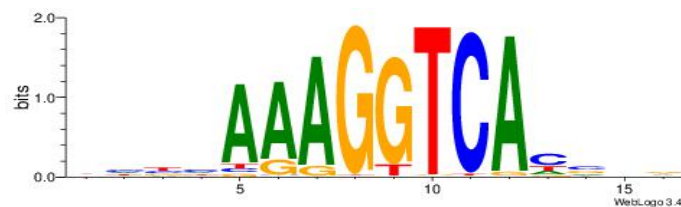
Number of overlap: 10
Similarity score: 0.0189599

Alignment:

DHBHAAAGGTCACVHD
--AWVDAGGTCA----

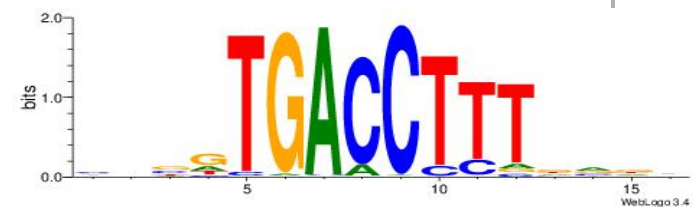
Original motif

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

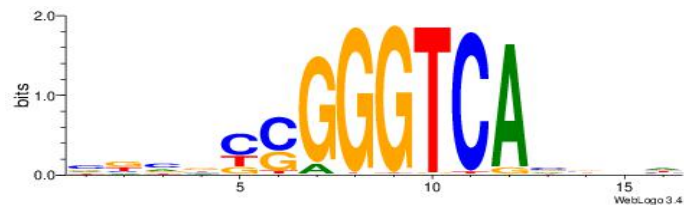
Alignment:

VBVBCSGGGTCAVBBH
--AWVDAGGTCA----

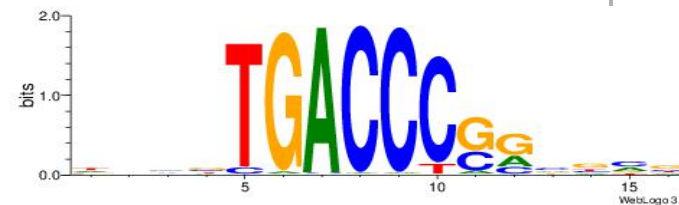
Original motif

Reverse complement motif

Consensus sequence: VBVB^{CS}GGGTCAVBBH



Consensus sequence: HVBVTGACCCSGBVBV



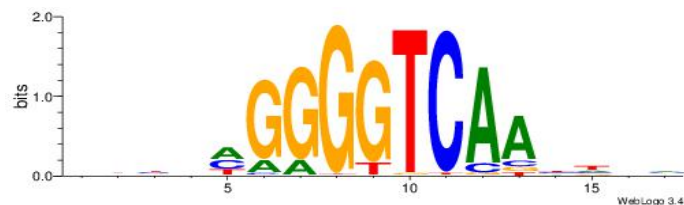
Motif ID: [UP00066](#)
Motif name: Hnf4a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0341771

Alignment:

BDBVMGGGGTCAABHDV
--AWVDAGGTCA-----

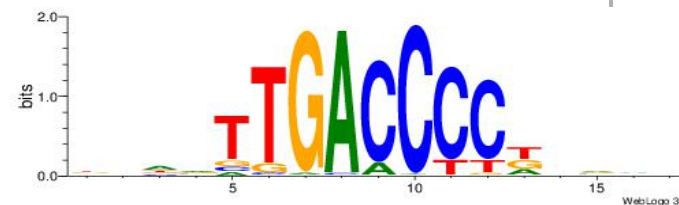
Original motif

Consensus sequence: BDBVMGGGGTCAABHDV



Reverse complement motif

Consensus sequence: BHHVTTGACCCCYVVD^B



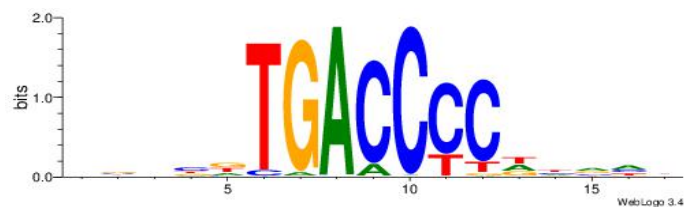
Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0363566

Alignment:

DBHBDTGACCCCDHVHB
 -----TGACCTDVWT--

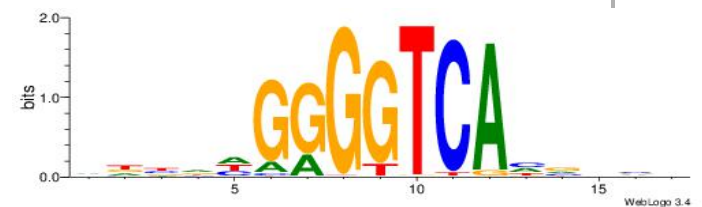
Original motif

Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif

Consensus sequence: VHBHDGGGGTCAHBHD



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

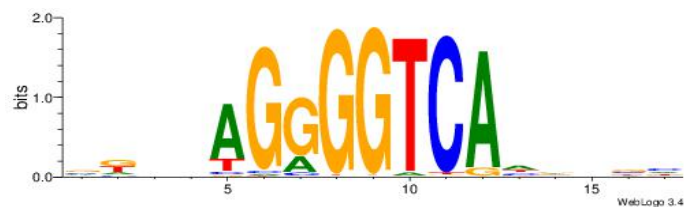
Number of overlap: 10
Similarity score: 0.0391284

Alignment:

VKBBAGGGGTCAHDBBH
--AWVDAGGTCA-----

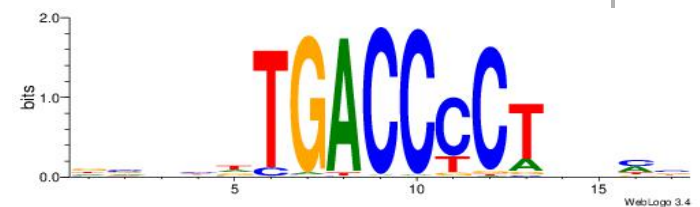
Original motif

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

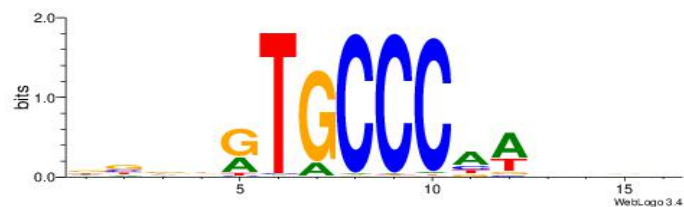
Alignment:

DBDDRTGCCCARDHDV
-----TGACCTDVWT-

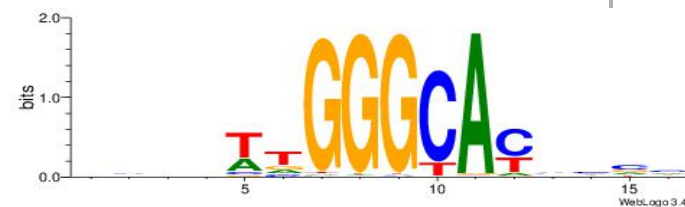
Original motif

Reverse complement motif

Consensus sequence: DBDDRTGCCCAWDHDV



Consensus sequence: VHHDWTGGGCAMDHBH

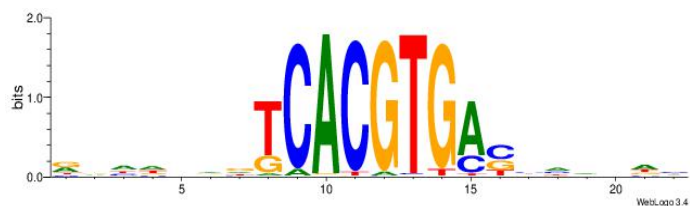


Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0461434

Alignment:
RDHDBVDTACGTGASBHVHDH
AWVDAGGTCA-----

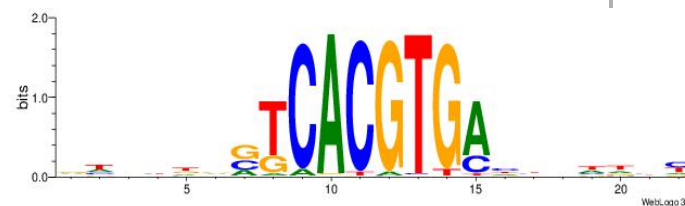
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



Motif ID: [UP00538](#)

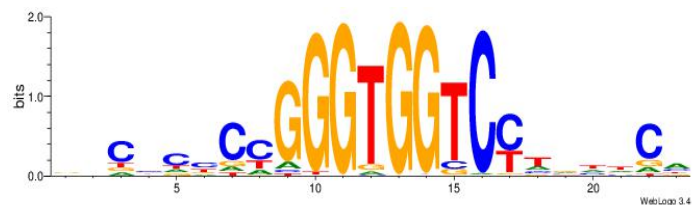
Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0489571

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
 -----TGACCTDVWT--

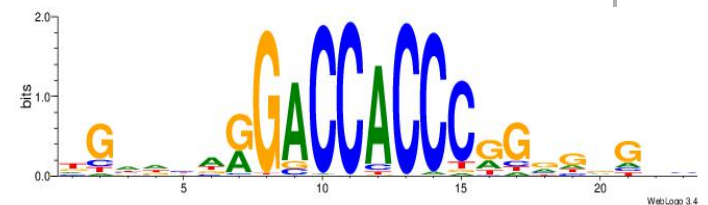
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVVHKGACCACCCGGBGBGDB



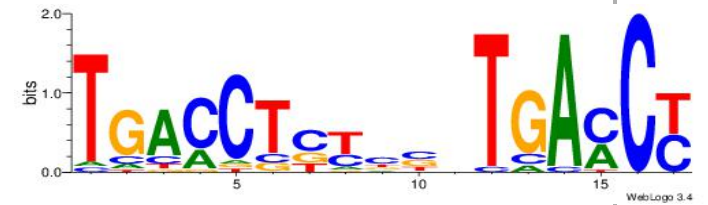
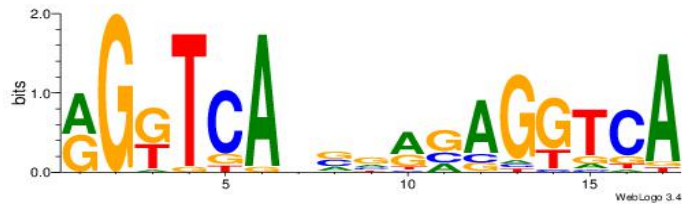
Dataset #: 2 Motif ID: 47 Motif name: RXRRAR_DR5

Original motif

Consensus sequence: RGKTCABVVRGAGGTCA

Reverse complement motif

Consensus sequence: TGACCTCKVVBGTGAYCK



Best Matches for Motif ID 47 (Highest to Lowest)

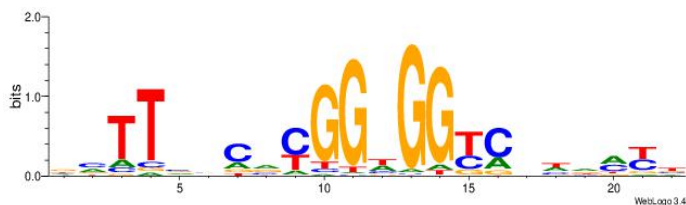
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0585087

Alignment:

DTTTVVCVYGGHGGYCHHDMYB
 RGKTCABVVRGAGGTCA-----

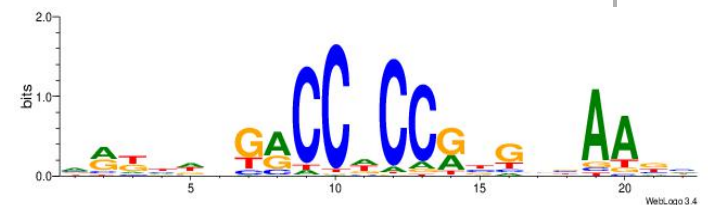
Original motif

Consensus sequence: DTTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKKBGVVAHVH



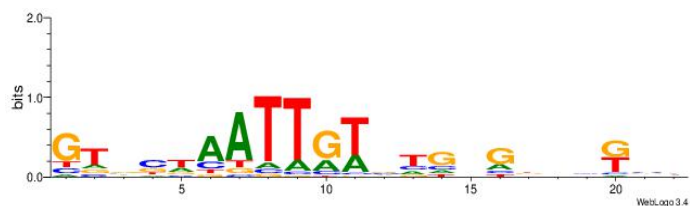
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0709955

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 -----RGKTCABVVRGAGGTCA

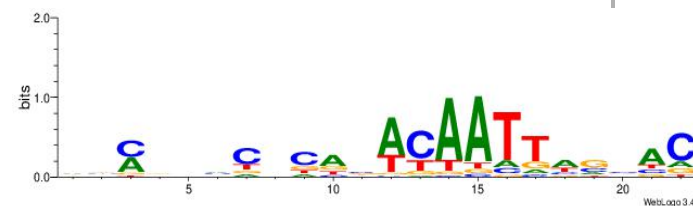
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC

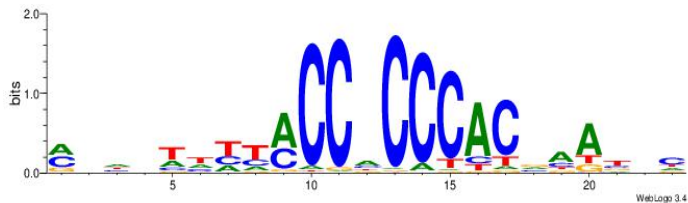


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 17

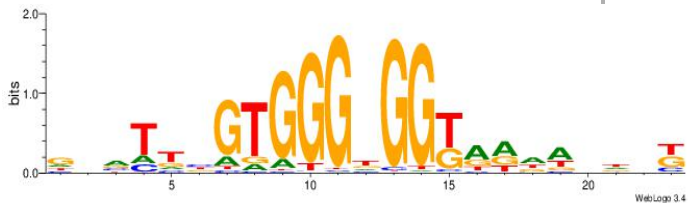
Similarity score: 0.075055

Alignment:
DVVTTVGTGGGHGGYAMHWHHHY
RGKTCABVVRGAGGTCA-----

Original motif
Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif
Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

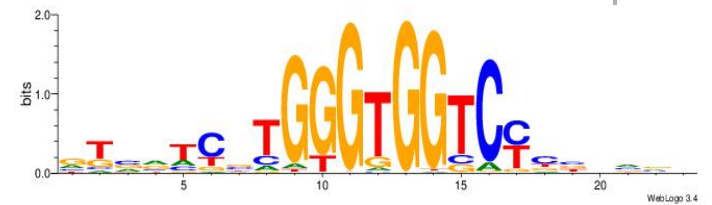
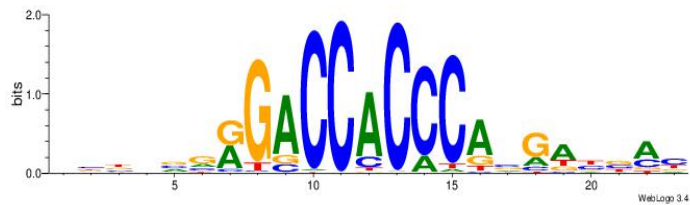


Motif ID: [UP00538](#)
Motif name: Gli1_v015681_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 17
Similarity score: 0.0758824

Alignment:
BBBDVVRGACCACCCAVGABBAB
-----RGKTCABVVRGAGGTCA

Original motif
Consensus sequence: BBBDVVRGACCACCCAVGABBAB

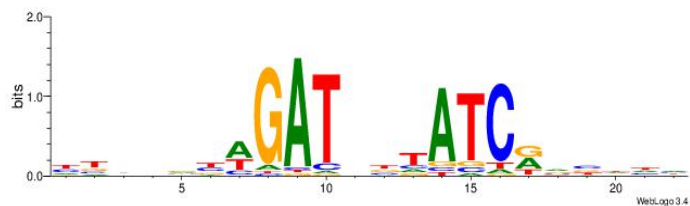
Reverse complement motif
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



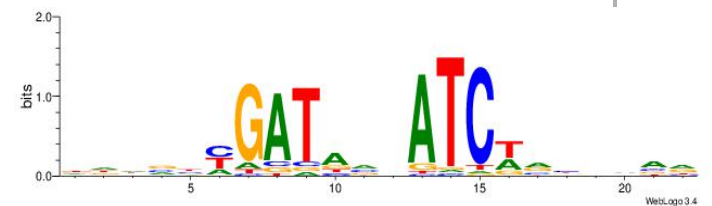
Motif ID: [UP00032](#)
 Motif name: Gata3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 17
 Similarity score: 0.0759953

Alignment:
 HBHDVBWGATHBTATCRVBHHH
 TGACCTCKVVB TGAYCK-----

Original motif
 Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif
 Consensus sequence: HHHBBMGATAVHATCWVVDHVH



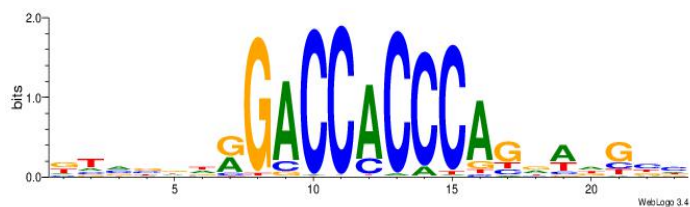
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0760211

Alignment:

DTVBDDRGACCACCCAGDWDGBH
 -----RGKTCABVVRGAGGTCA

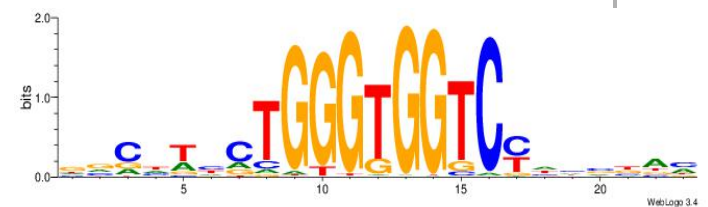
Original motif

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

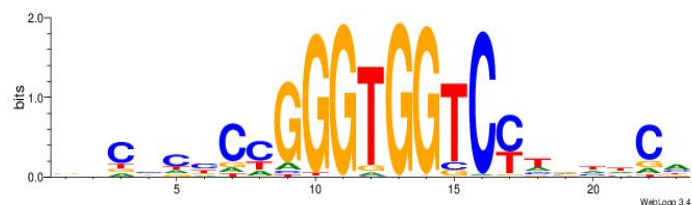
Number of overlap: 17
Similarity score: 0.0763398

Alignment:

BHCBCBCCGGGTGGTCYHVHDCH
TGACCTCKVVBGTGAYCK-----

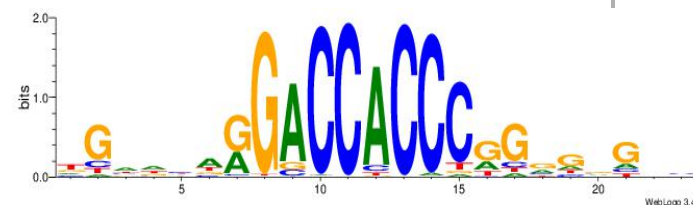
Original motif

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:

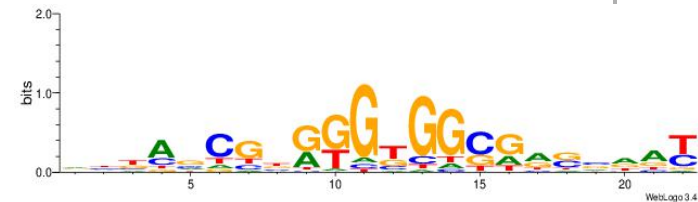
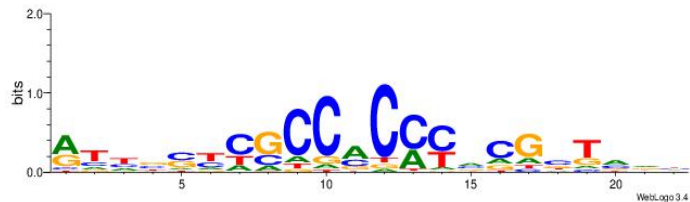
RTHBSYCGCCMCMYVCGBTVDH
RGKTCABVVRGAGGTCA-----

Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH

Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK

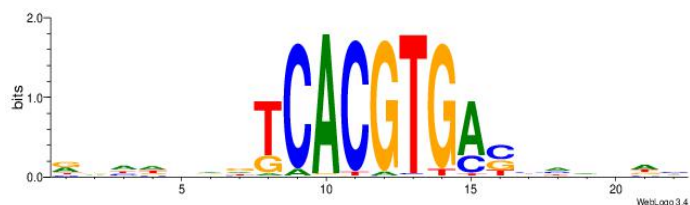


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 17
 Similarity score: 0.0784072

Alignment:
 DDHBHBSTCACGTGAHBBDHMH
 ----RGKTCABVVRGAGGTCA-

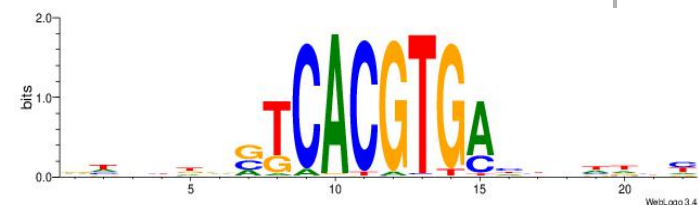
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



Motif ID: [UP00538](#)

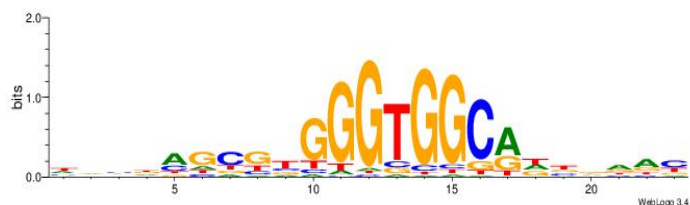
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 17
 Similarity score: 0.0794665

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 RGKTCABVVRGAGGTCA-----

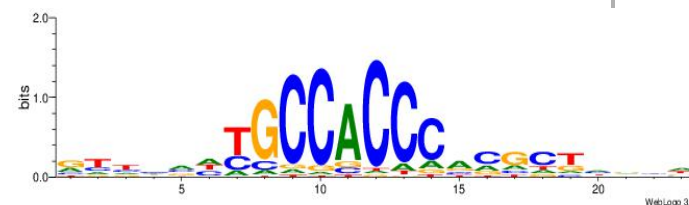
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

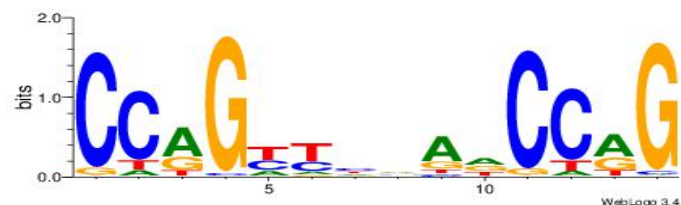
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



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

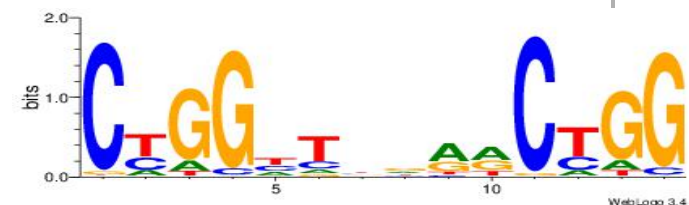
Original motif

Consensus sequence: CCAGYYHVADCCRG



Reverse complement motif

Consensus sequence: CKGGDTBDMMCTGG



Best Matches for Motif ID 48 (Highest to Lowest)

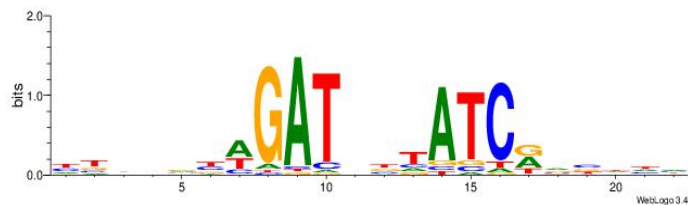
Motif ID: [UP00032](#)
Motif name: Gata3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.0527249

Alignment:

HBHDVBWGATHBTATCRVBHHH
----CCAGYYHVADCCRG----

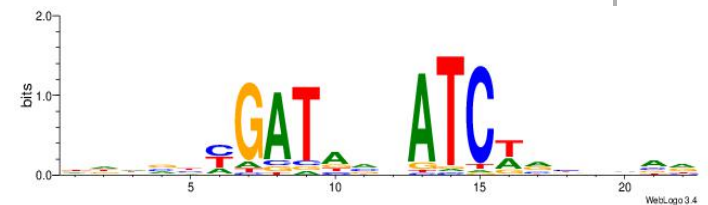
Original motif

Consensus sequence: HBHDVBWGATHBTATCRVBHHH



Reverse complement motif

Consensus sequence: HHHBBMGATAVHATCWVVDHVH



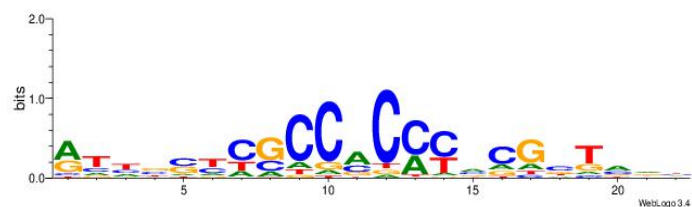
Motif ID: [UP00539](#)
Motif name: Gli2_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0551691

Alignment:
RTHBSYCGCCMCMYVCGBTVDH
-----CCAGYYHVADCCRG

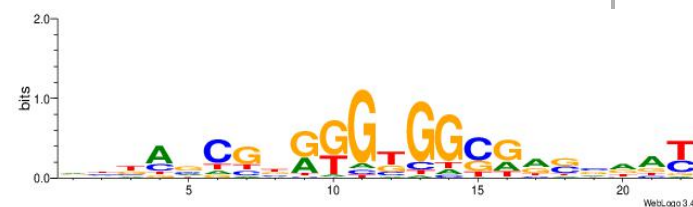
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK

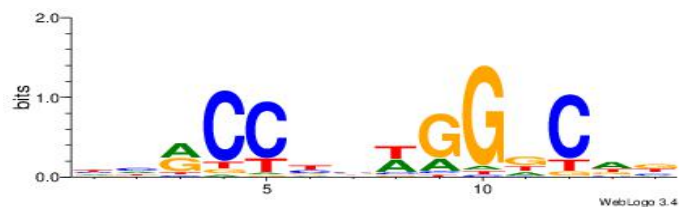


Motif ID: [UP00005](#)
Motif name: Tcfap2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0560983

Alignment:
HHRCCBBWGGDCDB
CCAGYYHVADCCRG

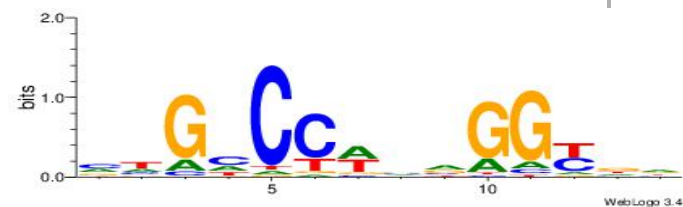
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



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

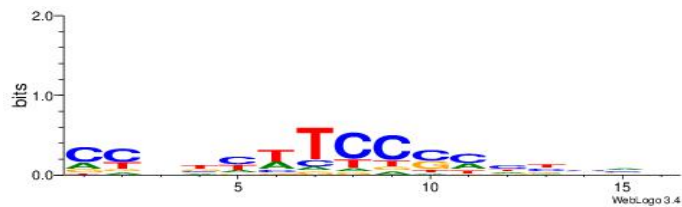
Alignment:

CYDBYWTCCSMHBVVH

CCAGYYHVADCCRG--

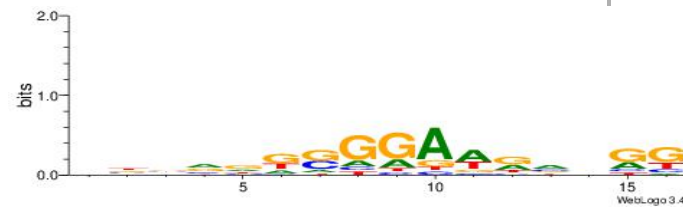
Original motif

Consensus sequence: CYDBYWTCCSMHBVVH



Reverse complement motif

Consensus sequence: DBVDRSGGAWKVHKG

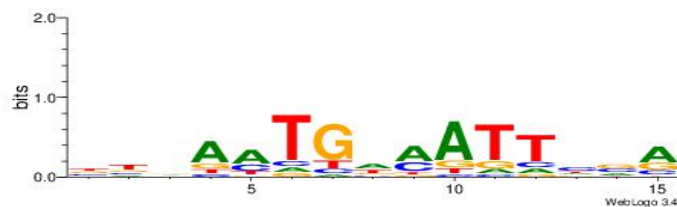


Motif ID: [UP00075](#)
Motif name: Sox15_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0577636

Alignment:
BBVAATGDMATTHVA
-CCAGYYHVADCCRG

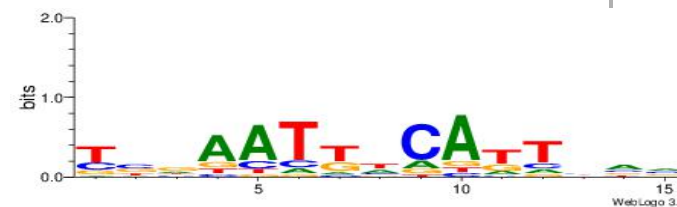
Original motif

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

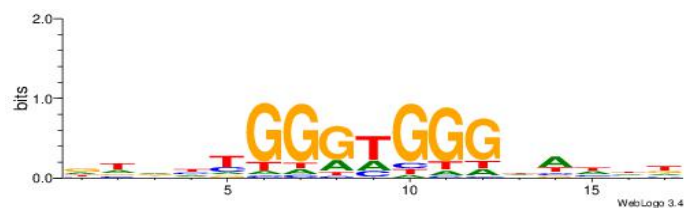
Number of overlap: 14
Similarity score: 0.0587893

Alignment:

DDDHTGGGTGGGHAHHD
---CKGGDTBDMMCTGG

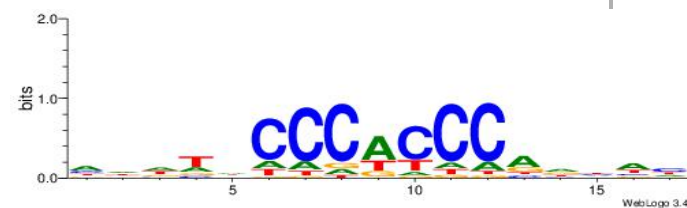
Original motif

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

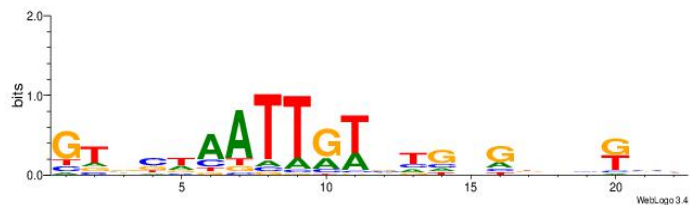
Alignment:

VVYDDDCHCAVACAATTDBVAC
--CCAGYYHVADCCRG-----

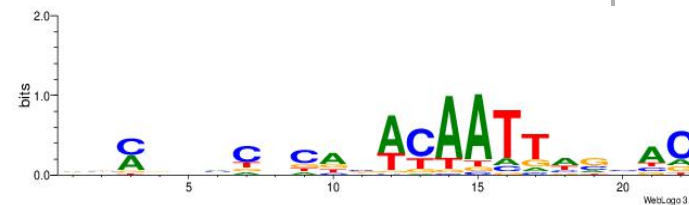
Original motif

Reverse complement motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Consensus sequence: VVYDDDCHCAVACAATTDBVAC



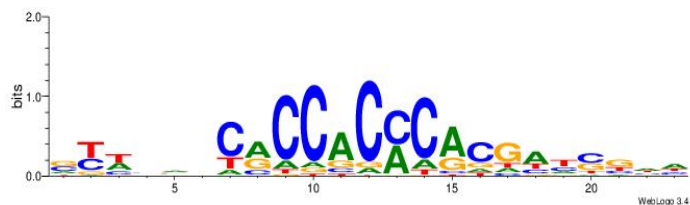
Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 14
Similarity score: 0.0596904

Alignment:

VYWVVHCRCCACMCACGAHSBHH
-----CCAGYYHVADCCRG--

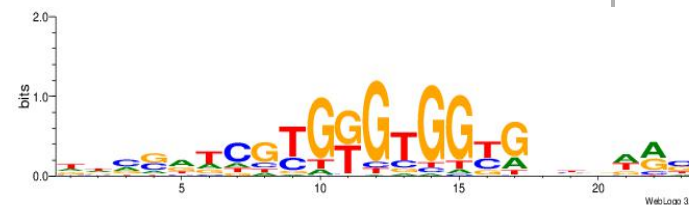
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV

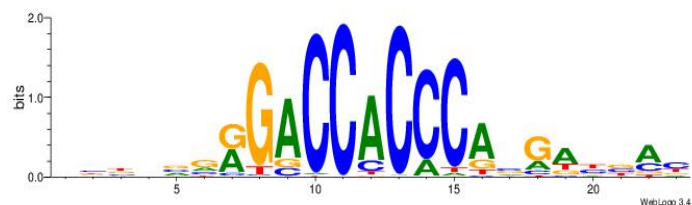


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0597695

Alignment:
 BBBDVVRGACCACCCAVGABBAB
 -----CCAGYYHVADCCRG

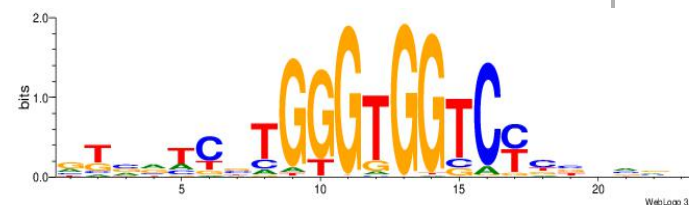
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



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

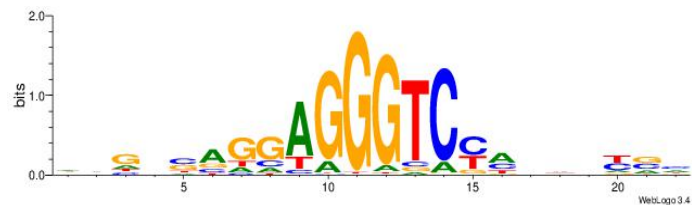
Similarity score: 0.0598357

Alignment:

HVGVSAGGAGGGTCYHHHHYVH
-----CKGGDTBDMMCTGG--

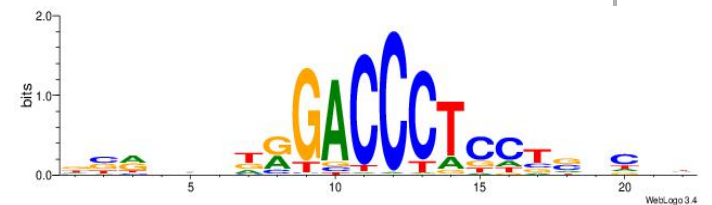
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



Results created by MOTIFSIM on 06-18-2018 23:13:48

Runtime: 761.535 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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