



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 >=	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

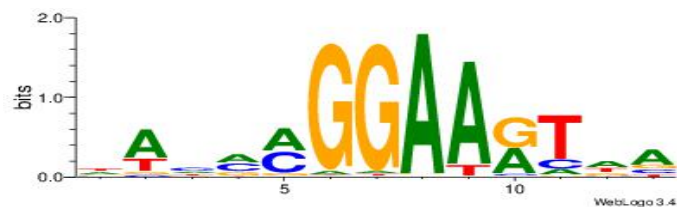
Alignment:

TDAMTTCCYYDTD

---MTTCK----

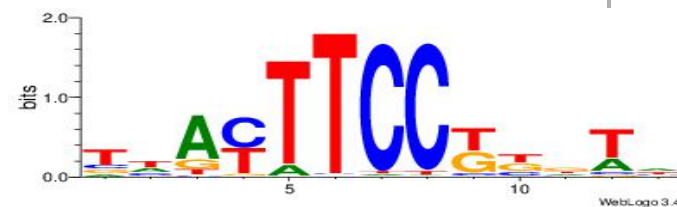
Original motif

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

-----RGGAAR---

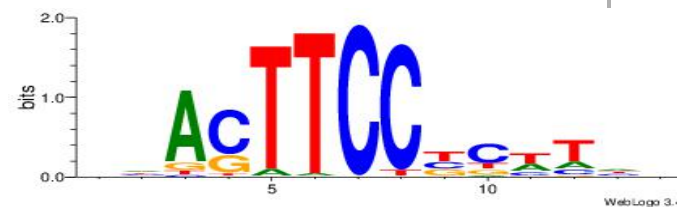
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



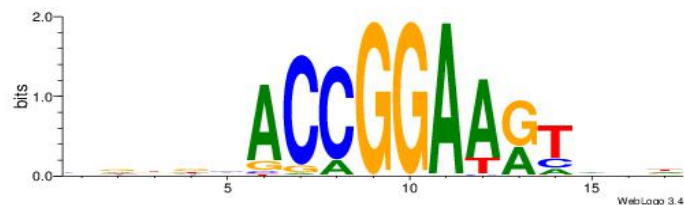
Motif ID: [UP00414](#)
 Motif name: Ets1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00356242

Alignment:

DDBAMTTCCGGTDHDB
 ----MTTCK-----

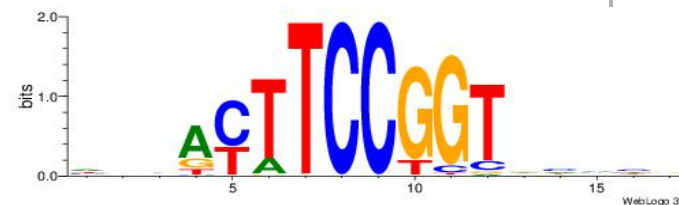
Original motif

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---

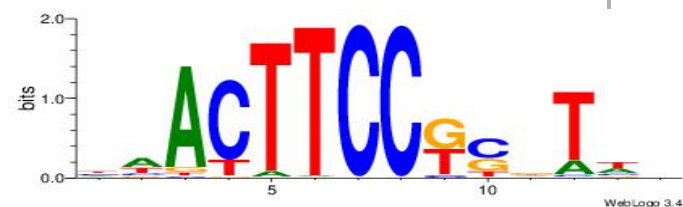
Original motif

Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCRSDTWV



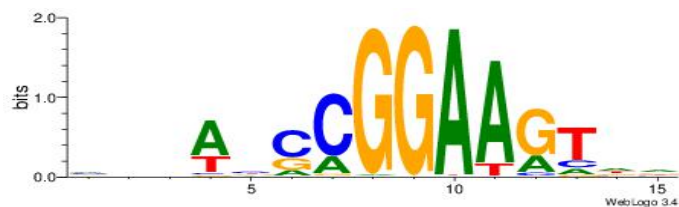
Motif ID: [UP00015](#)
Motif name: Ehf_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 6
Similarity score: 0.00655644

Alignment:

DDACTTCGGBTHBB
---MTTCK-----

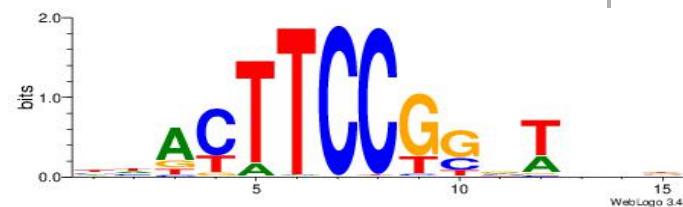
Original motif

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

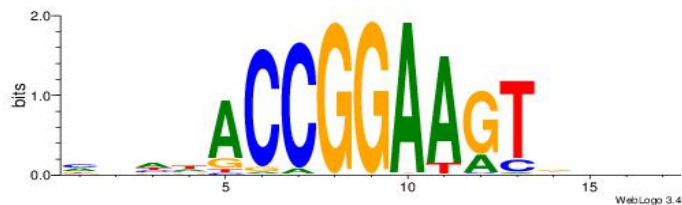
Alignment:

BHHHACTTCGGTHHBD

-----MTTCCK-----

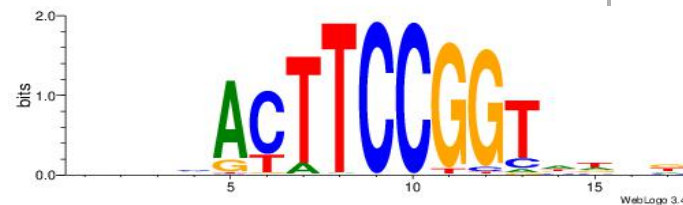
Original motif

Consensus sequence: HVHHACCGGAAGTDHHV



Reverse complement motif

Consensus sequence: BHHHACTTCGGTHHBD



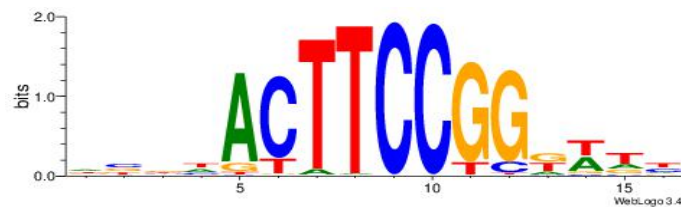
Motif ID: [UP00413](#)
Motif name: Elf4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.00896416

Alignment:

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

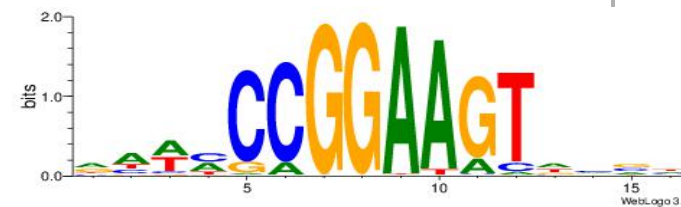
Original motif

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---

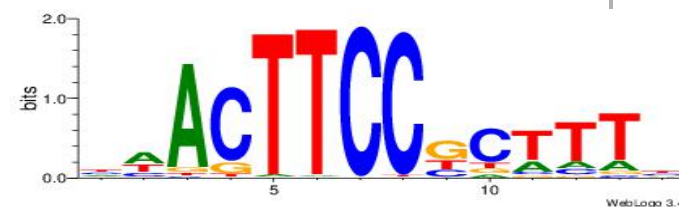
Original motif

Consensus sequence: VAAAGMGGAAAGTWD



Reverse complement motif

Consensus sequence: DWACTTCRCRCTTTB



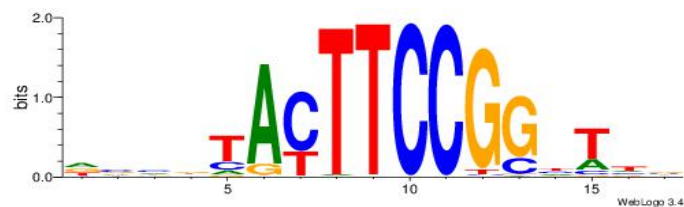
Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0103447

Alignment:

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

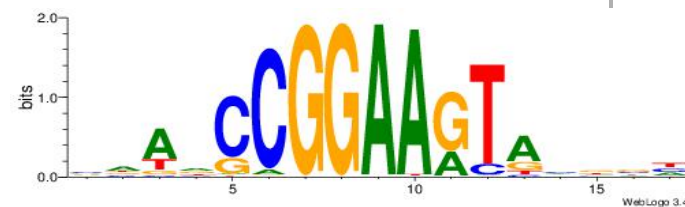
Original motif

Consensus sequence: DVHBTACTTCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



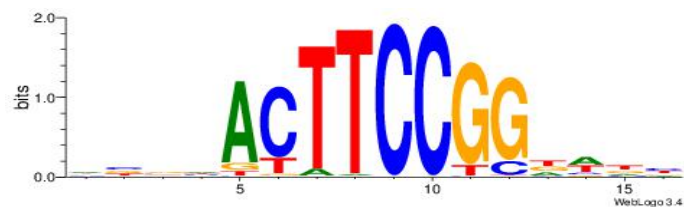
Motif ID: [UP00404](#)
Motif name: Elf2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 6
Similarity score: 0.010491

Alignment:

```
DBBHACTTCCGGDWDB  
-----MTTCCK-----
```

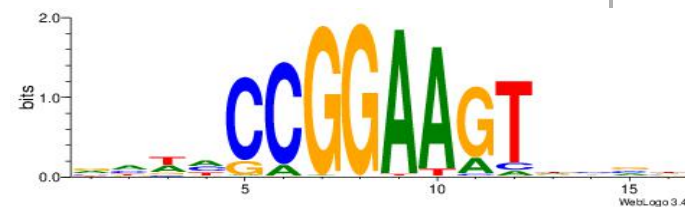
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



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

Original motif

Consensus sequence: AMACA



Reverse complement motif

Consensus sequence: TGTRT



Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID:	UP00042
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	5
Similarity score:	0

Alignment:

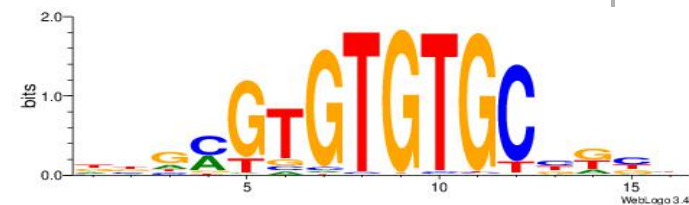
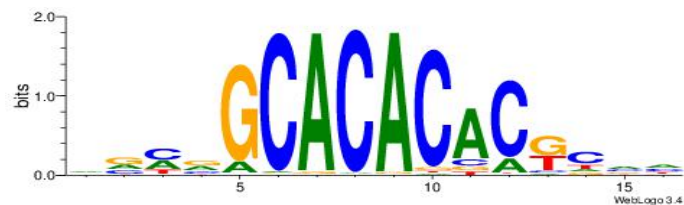
```
DVMVGCACACACKCVH
-----AMACA-----
```

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD

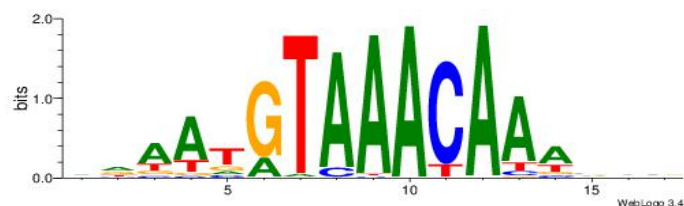


Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00605402

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

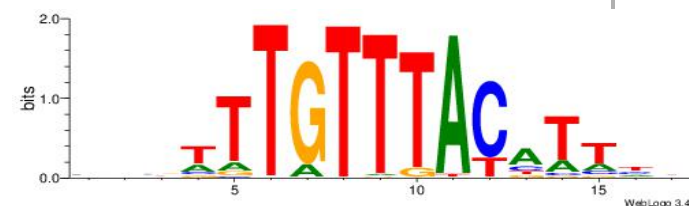
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD



Motif ID: [UP00041](#)

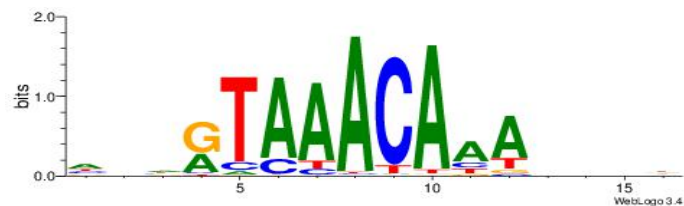
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.00753267

Alignment:

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

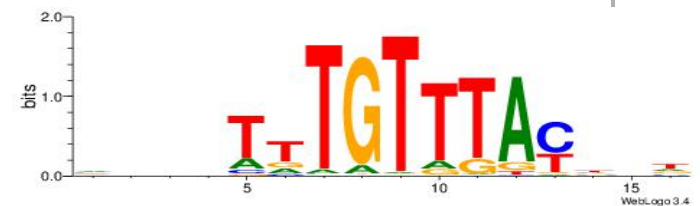
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5

Similarity score: 0.00965634

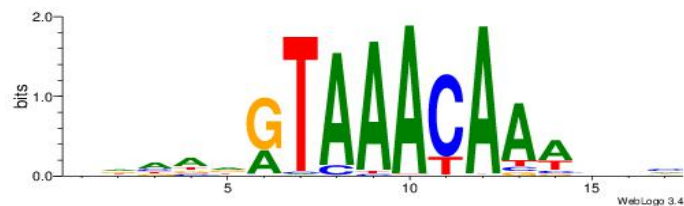
Alignment:

HDHADGTAAACAAVVH

-----AMACA-----

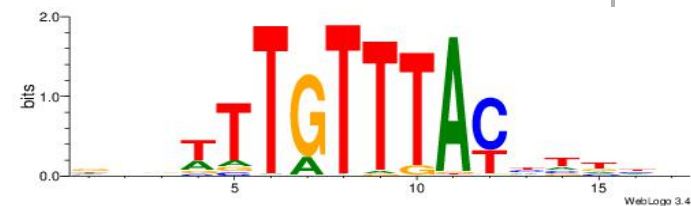
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



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

Alignment:

DWAATRTAAACAAWVVB

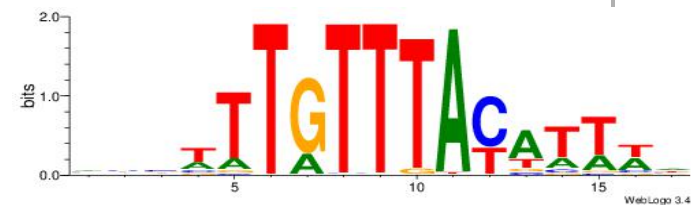
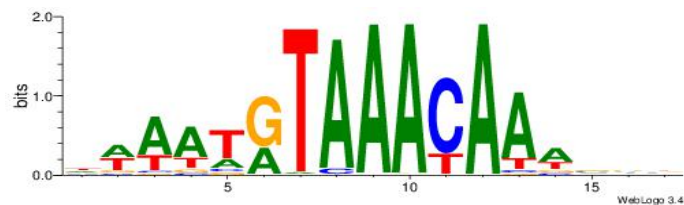
-----AMACA-----

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

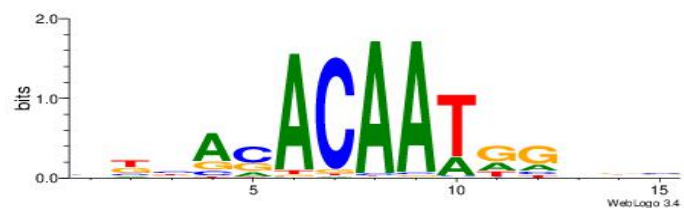
Consensus sequence: VVVWTTGTTTAMATTWD



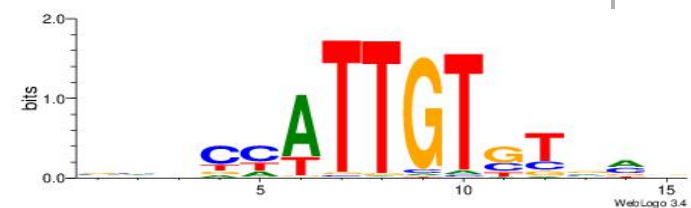
Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 5
 Similarity score: 0.0116453

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

Original motif
 Consensus sequence: BKBASACAATRGHBB



Reverse complement motif
 Consensus sequence: BBDCMATTGTSTBRB



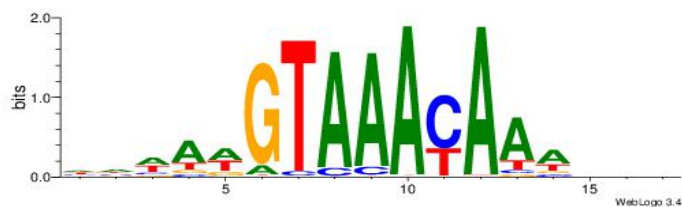
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.0143122

Alignment:

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

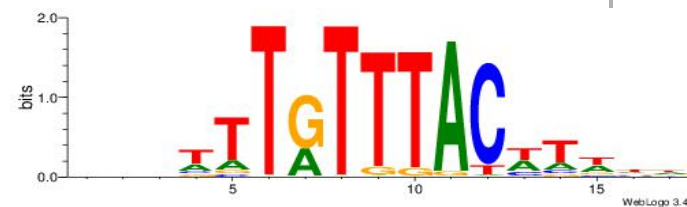
Original motif

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

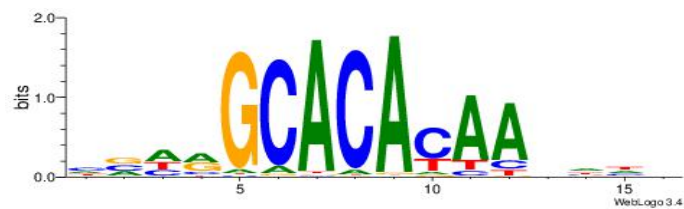
Number of overlap: 5
Similarity score: 0.0153228

Alignment:

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

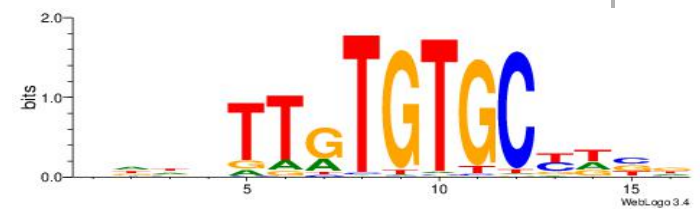
Original motif

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

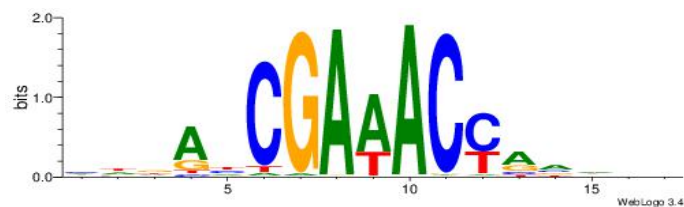
Alignment:

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

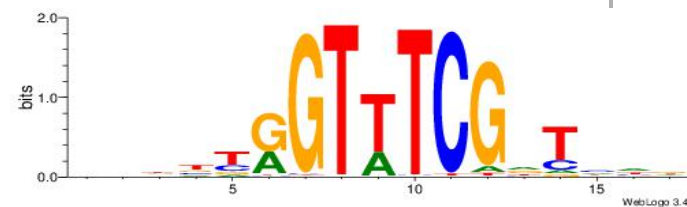
Original motif

Reverse complement motif

Consensus sequence: HDDAHCGAAACYAVDDD



Consensus sequence: DHDBTKGTTTCGHTHDD

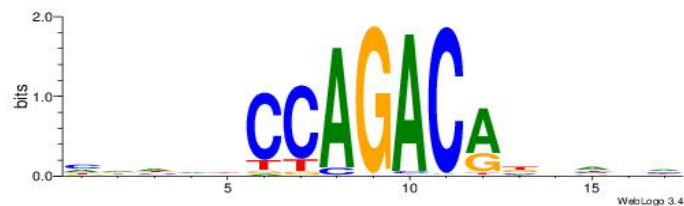


Motif ID: [UP00000](#)
Motif name: Smad3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 5
Similarity score: 0.0255974

Alignment:
HDHDDCCAGACABBHVH
-----AMACA-----

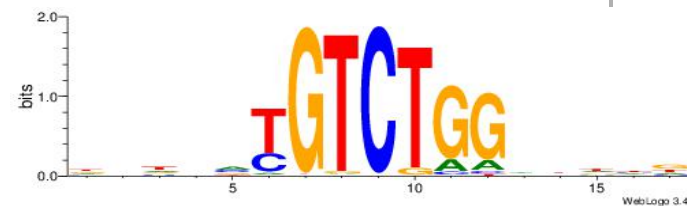
Original motif

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

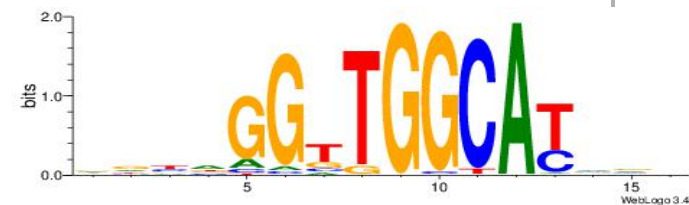
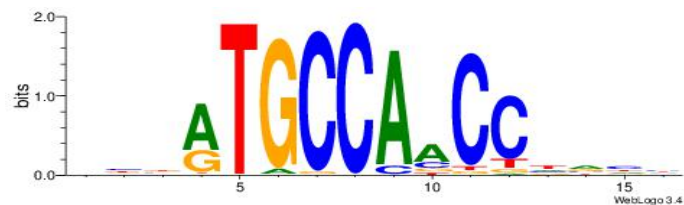
---AGSCWGG-----

Original motif

Consensus sequence: DDBATGCCAACCHVHH

Reverse complement motif

Consensus sequence: DDBHGGTTGGCATVBD

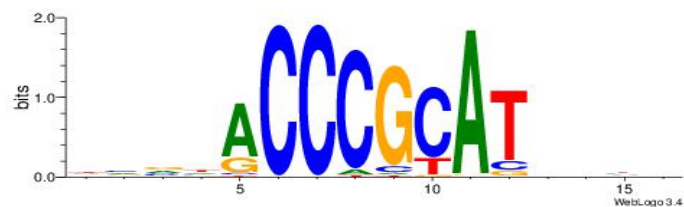


Motif ID: [UP00070](#)
 Motif name: Gcm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00560414

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

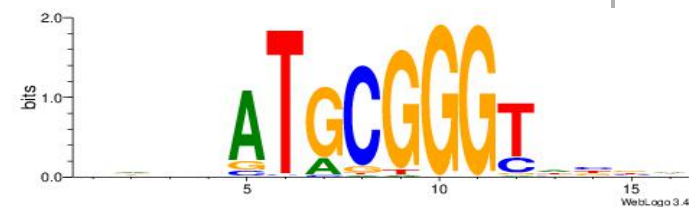
Original motif

Consensus sequence: HVVHACCCGCATVDHD



Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH



Motif ID: [UP00095](#)

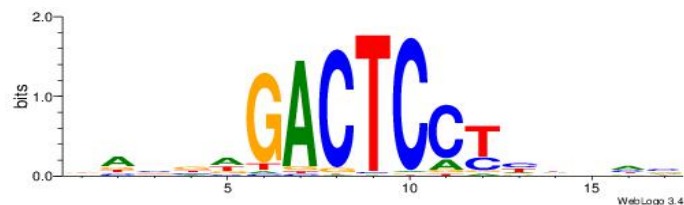
Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 7
 Similarity score: 0.0109149

Alignment:

VHBDDAGGAGTCWBBTD
 -----AGSCWGG--

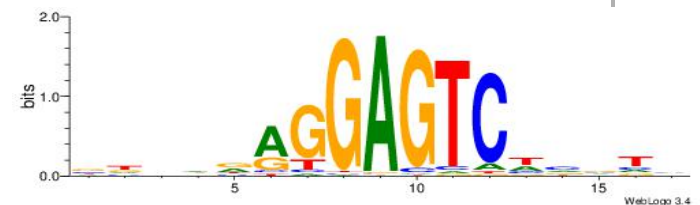
Original motif

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

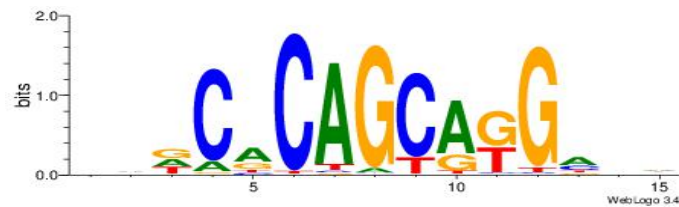
Alignment:

DVHCYTGCTGTGHDH

--CCWGSCT-----

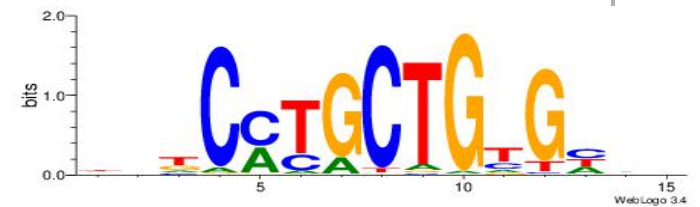
Original motif

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

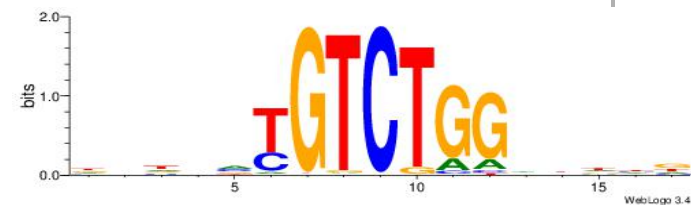
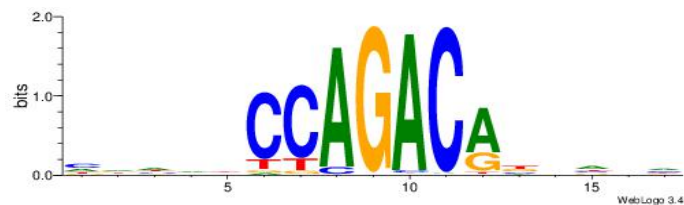
-----CCWGSCT-----

Original motif

Consensus sequence: HDHDDCCAGACABBHVH

Reverse complement motif

Consensus sequence: HVHBVTGTCTGGDDHDD

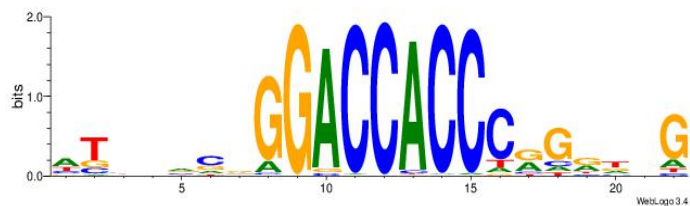


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0115258

Alignment:
 CBDMCMGGGTGGTCCHVBVBAH
 -----AGSCWGG-----

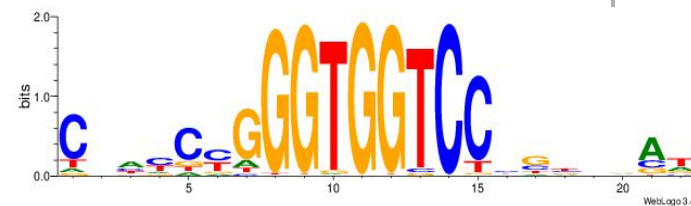
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



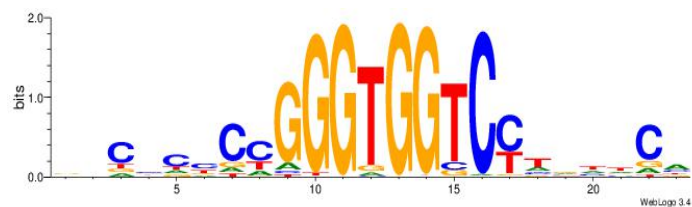
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.0117486

Alignment:

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

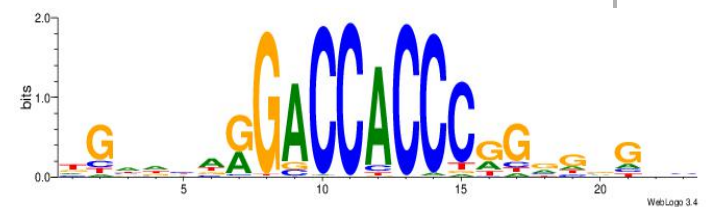
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVKHGACCAACCGGBGBGDB

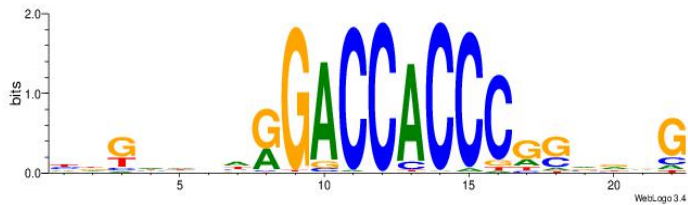


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6

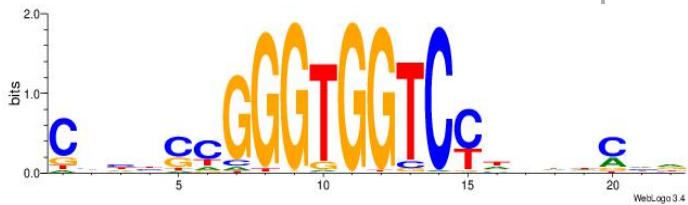
Number of overlap: 7
Similarity score: 0.0131676

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

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



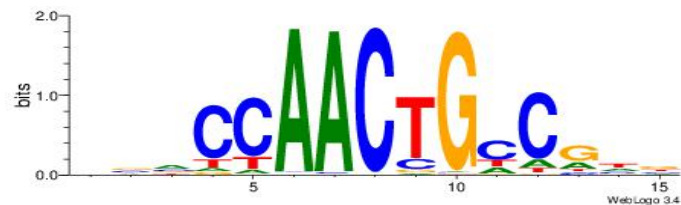
Motif ID: [UP00081](#)
Motif name: Mybl1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 7
Similarity score: 0.0136026

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

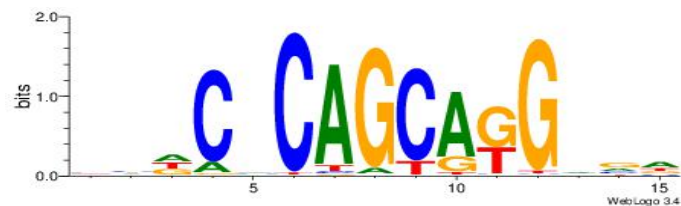
Alignment:

DVBCYTGCTGBGDDD

--CCWGSCT-----

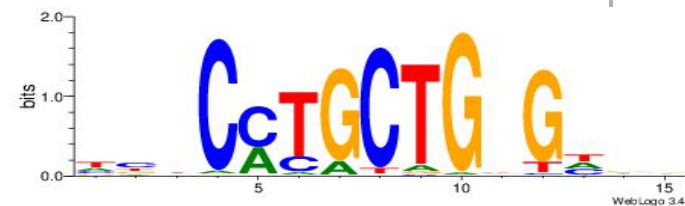
Original motif

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:

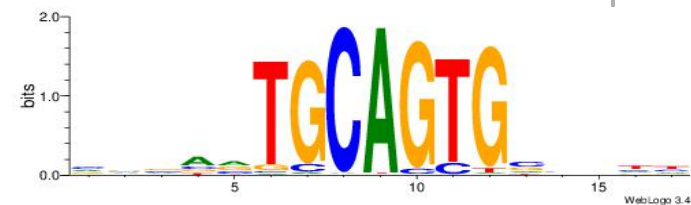
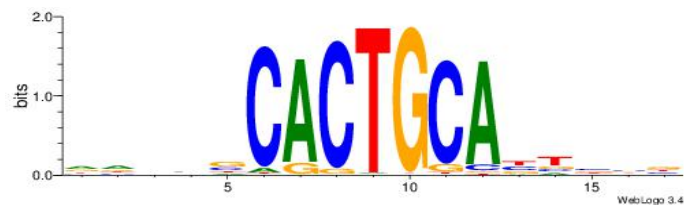
```
BBBAVTGCAGTGBBVDD
-----KCAGAG-----
```

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

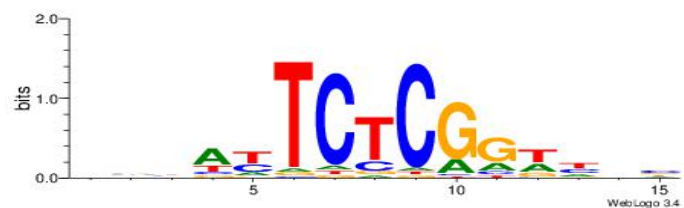


Motif ID: [UP00018](#)
 Motif name: Irf4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.00610915

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

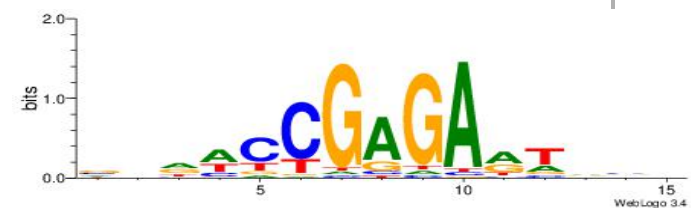
Original motif

Consensus sequence: VVBAYTCTCGGWHDB



Reverse complement motif

Consensus sequence: BHHWCCGAGAMTVVB



Motif ID: [UP00095](#)

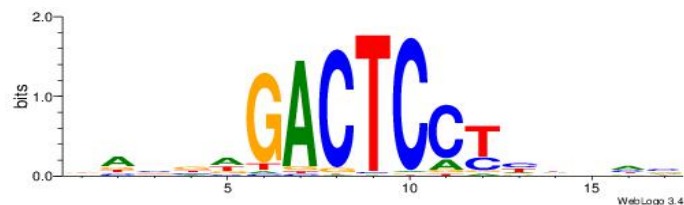
Motif name: Zfp691_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00648219

Alignment:

VHBDDAGGAGTCWBBTD
 ----KCAGAG-----

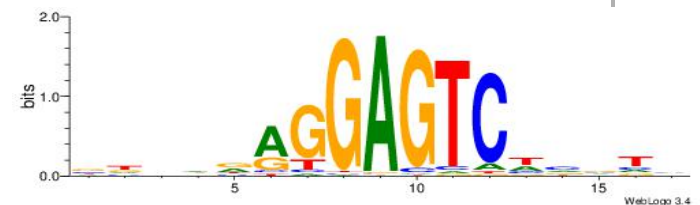
Original motif

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

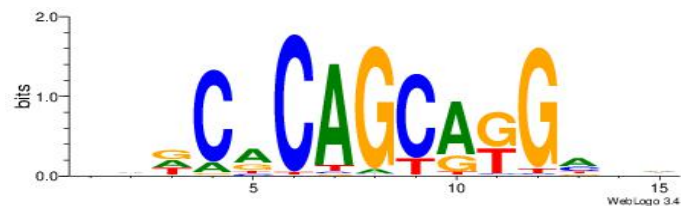
Alignment:

DDDCACAGCAKGHVD

--KCAGAG-----

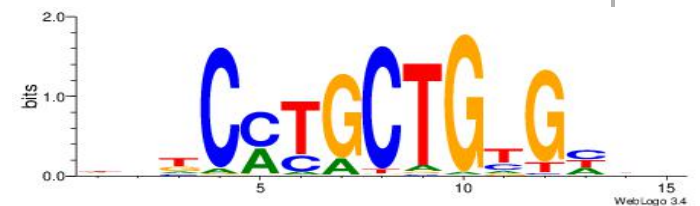
Original motif

Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif

Consensus sequence: DVHCYTGCTGTGHDH



Motif ID: [UP00007](#)

Motif name: Egr1_secondary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 2

Number of overlap: 6

Similarity score: 0.00895004

Alignment:

BHHDTCCTCACTCBDBV

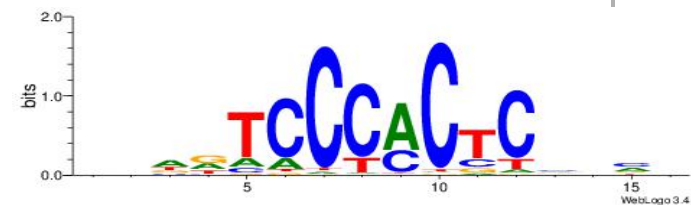
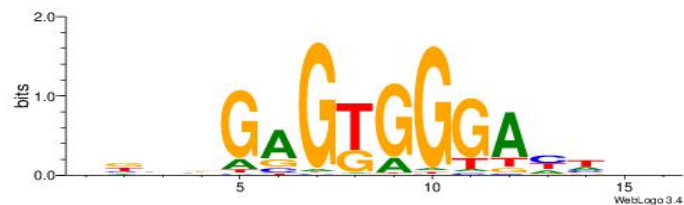
-----CTCTGY-

Original motif

Consensus sequence: BBHBGAGTGGGAHHDB

Reverse complement motif

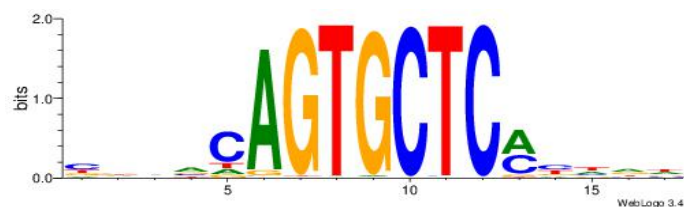
Consensus sequence: BHHDTCCTCACTCBDBV



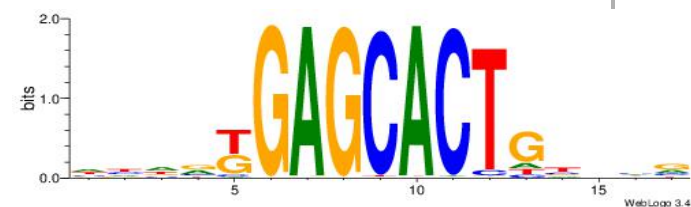
Motif ID: [UP00095](#)
 Motif name: Zfp691_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.00955889

Alignment:
 DDHBYGAGCACTGBHBB
 -----CTCTGY---

Original motif
 Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif
 Consensus sequence: DDHBYGAGCACTGBHBB



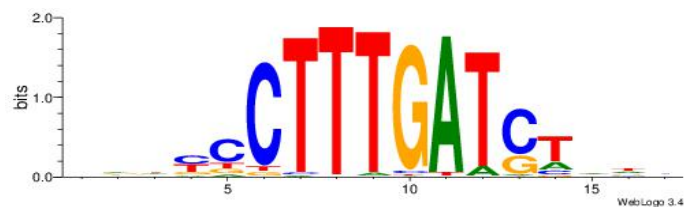
Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0106184

Alignment:

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

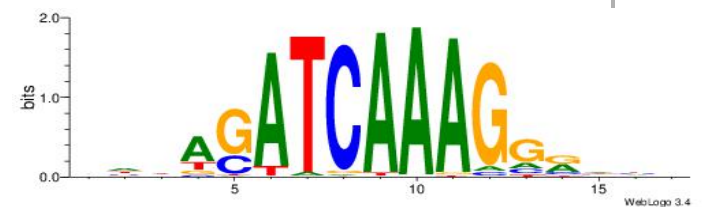
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



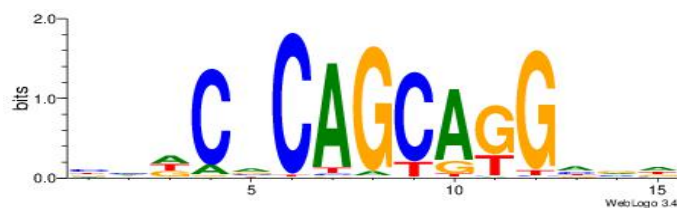
Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8

Number of overlap: 6
Similarity score: 0.0122635

Alignment:
BHDCVCAGCAGGHVD
--KCAGAG-----

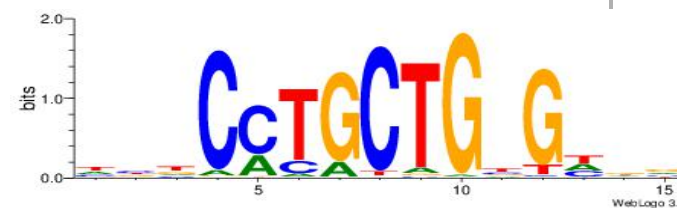
Original motif

Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif

Consensus sequence: DVHCCTGCTGBGDDDB



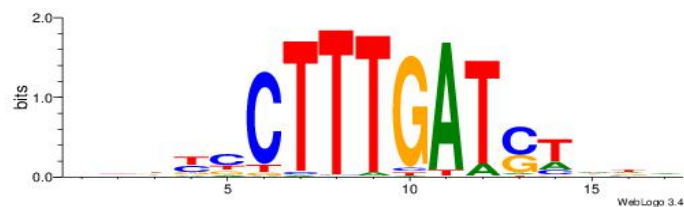
Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0131237

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

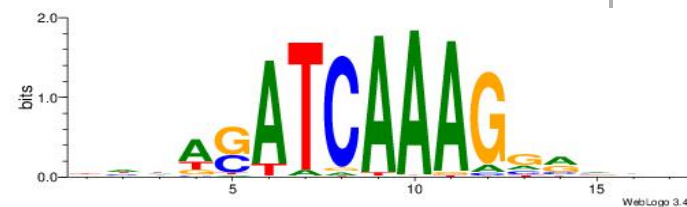
Original motif

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

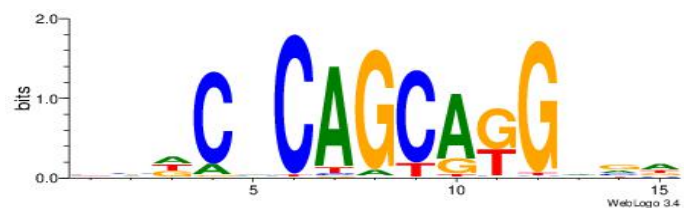
Alignment:

HHDCVCAGCAKGVVD

--KCAGAG-----

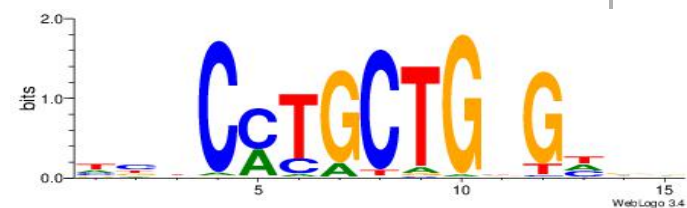
Original motif

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

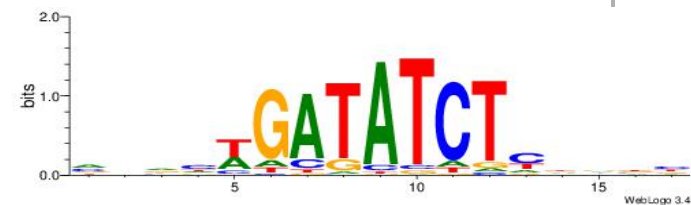
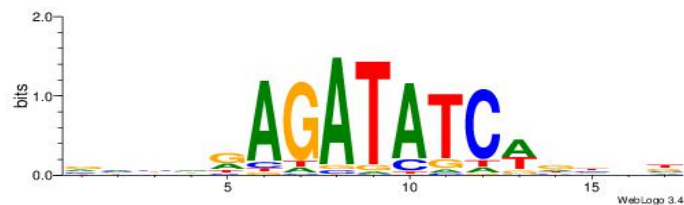
-----RARAT-----

Original motif

Consensus sequence: VVBHRAGATATCWDHBB

Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV

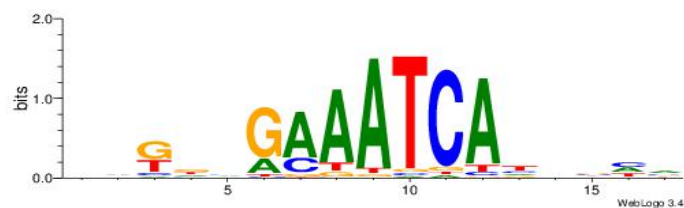


Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.00279496

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

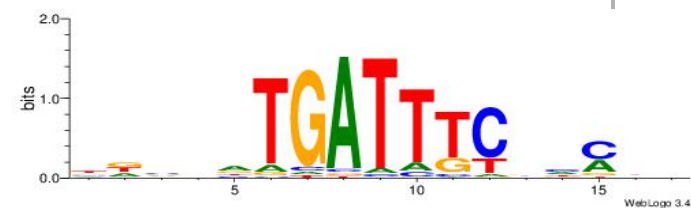
Original motif

Consensus sequence: DDKDHGAAATCAHHBH



Reverse complement motif

Consensus sequence: BDBDHTGATTTCDHYD



Motif ID: [UP00032](#)

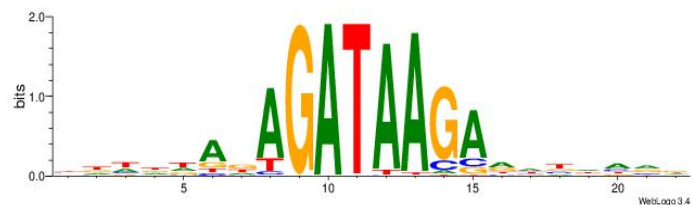
Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 12
 Number of overlap: 5
 Similarity score: 0.00967655

Alignment:

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

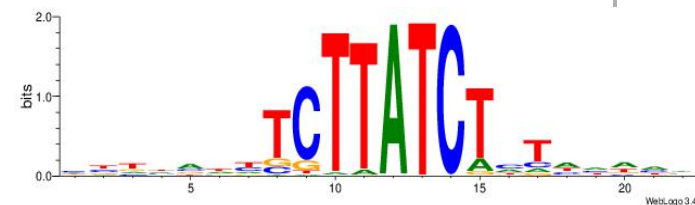
Original motif

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

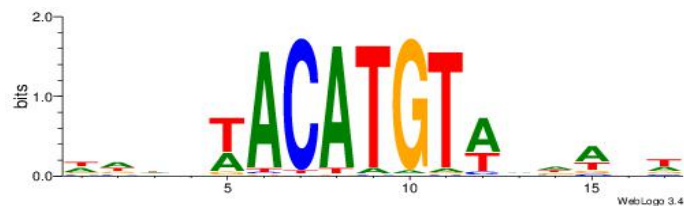
Alignment:

DDDHWACATGTWHDABW

-----ATKTM-----

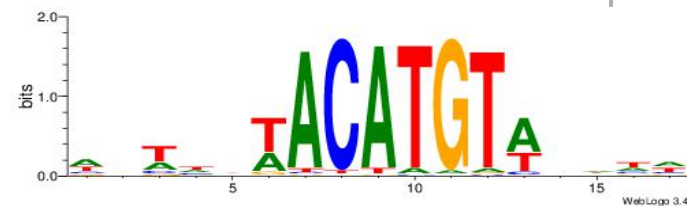
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDPHWACATGTWHD



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

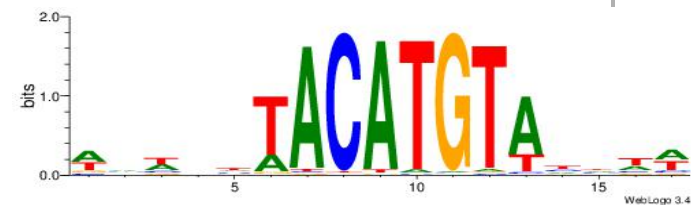
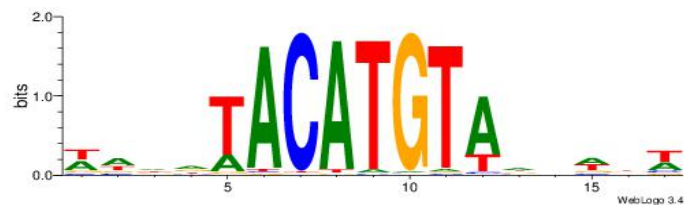
-----ATKTM-----

Original motif

Consensus sequence: WDDDTACATGTADDWBW

Reverse complement motif

Consensus sequence: WVWDDTACATGTADDW

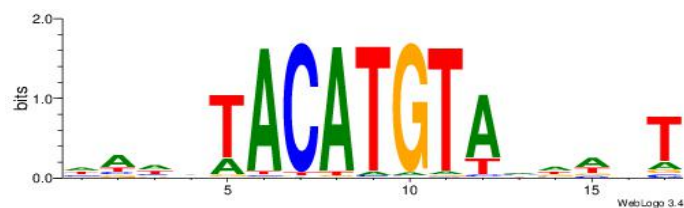


Motif ID: [UP00150](#)
 Motif name: Irx6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.0120601

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

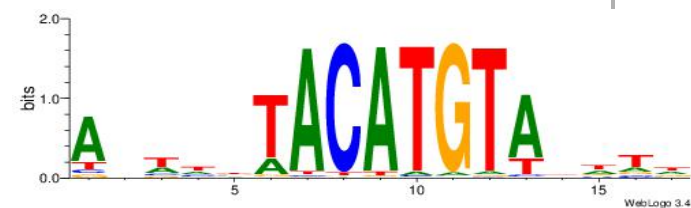
Original motif

Consensus sequence: HAHDTACATGTAVDWHT



Reverse complement motif

Consensus sequence: AHWDBTACATGTADHTH



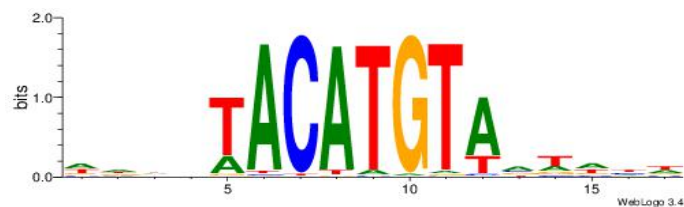
Motif ID: [UP00223](#)
 Motif name: Irx3_2226.1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 5
 Similarity score: 0.0124884

Alignment:

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

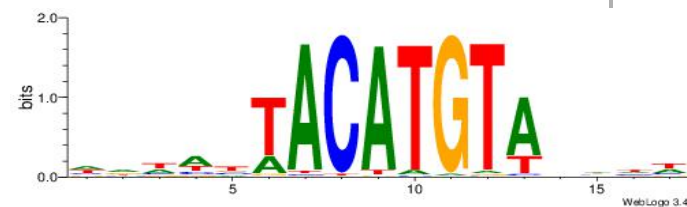
Original motif

Consensus sequence: DDDHTACATGTAVWDHD



Reverse complement motif

Consensus sequence: DHDWBTACATGTAHDDD



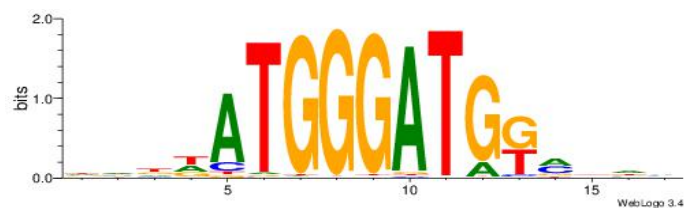
Motif ID: [UP00033](#)
 Motif name: Zfp410_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10

Number of overlap: 5
Similarity score: 0.0150044

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

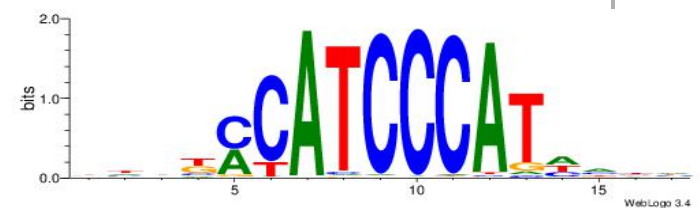
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



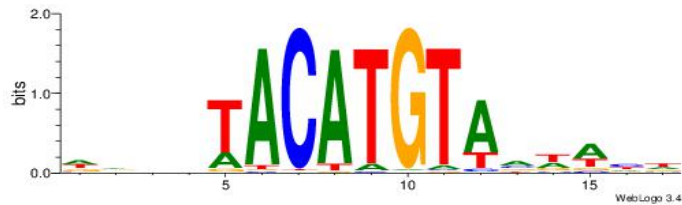
Motif ID: [UP00223](#)
Motif name: Irx3_0920.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 5
Similarity score: 0.0150192

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

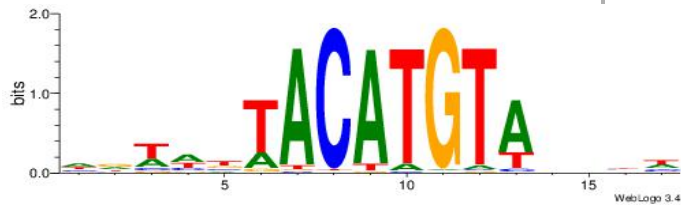
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVVWHHD



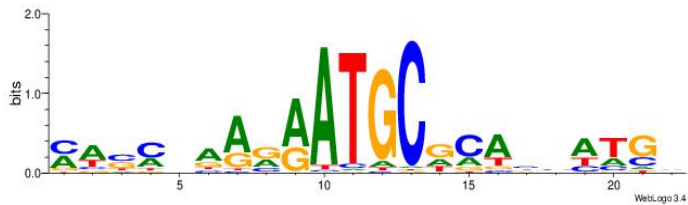
Consensus sequence: DDWWBTACATGTADDDD



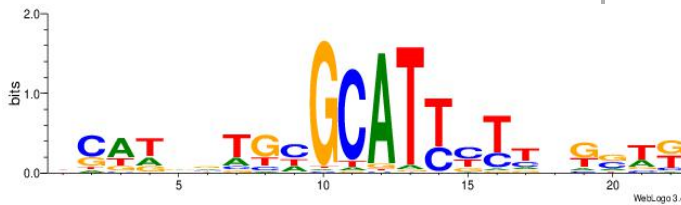
Motif ID: [UP00528](#)
Motif name: Foxm1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 5
Similarity score: 0.0166075

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

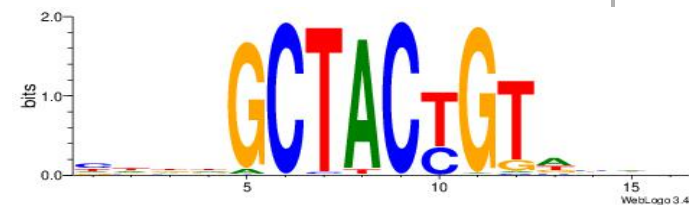
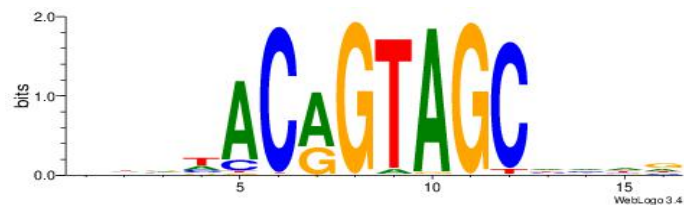
-----GCKGCTG-----

Original motif

Consensus sequence: HHVHACRGTAGCHHHD

Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH

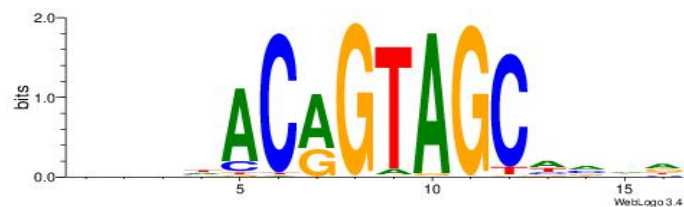


Motif ID: [UP00027](#)
 Motif name: Osr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00108105

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

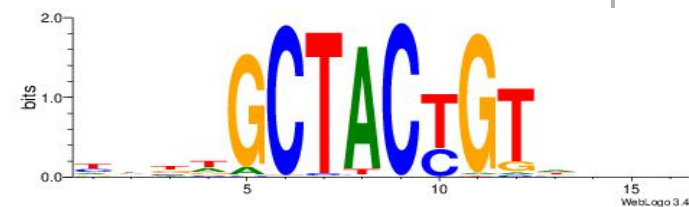
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00099](#)

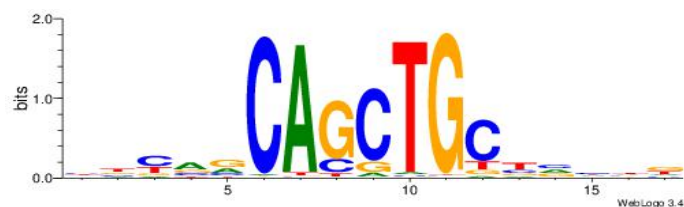
Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.00905497

Alignment:

BBYVVCAGCTGCBVHHD
 -----GCKGCGY---

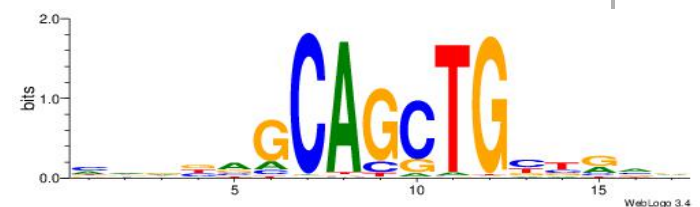
Original motif

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

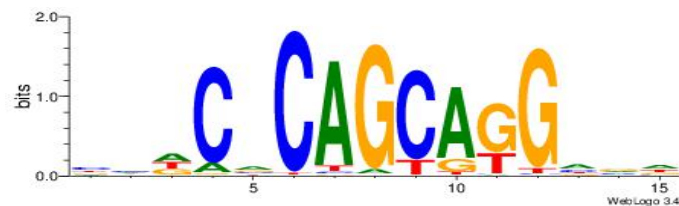
Alignment:

BHDCVCAGCAGGHVD

-----CMGCRGC----

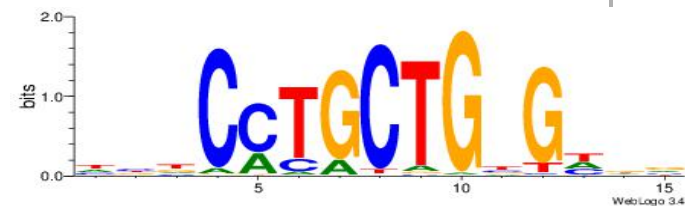
Original motif

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

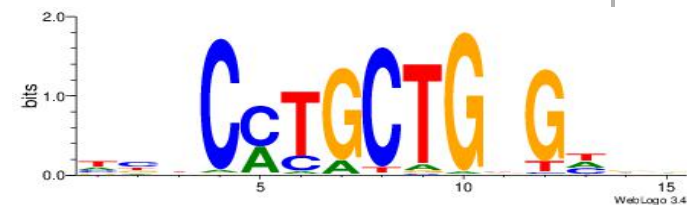
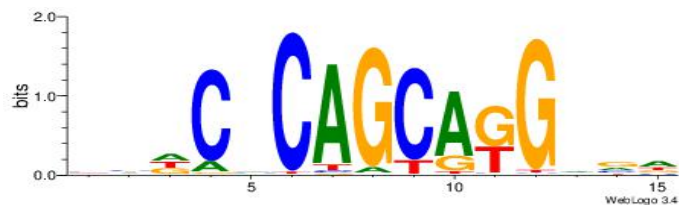
-----CMGCRGC----

Original motif

Consensus sequence: HHDCVCAGCAKGVVD

Reverse complement motif

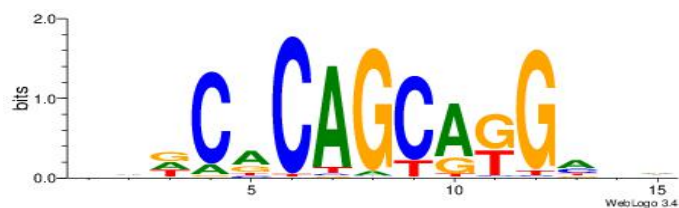
Consensus sequence: DVBCYTGCTGBGDDD



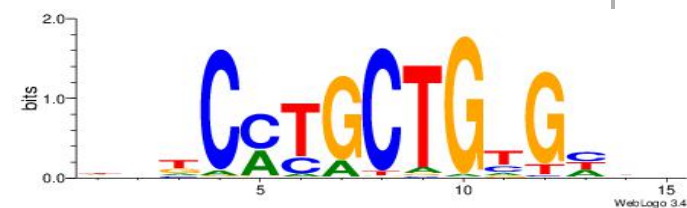
Motif ID: [UP00006](#)
 Motif name: Zic3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.0137402

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

Original motif
 Consensus sequence: DDDCACAGCAKGHVD



Reverse complement motif
 Consensus sequence: DVHCYTGCTGTGHDH



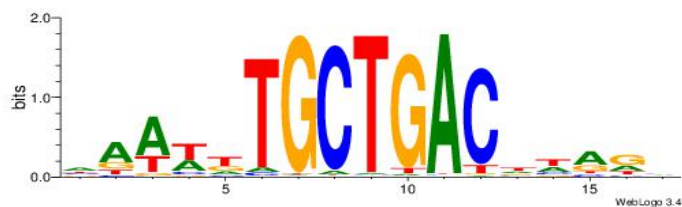
Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 7
 Similarity score: 0.0253076

Alignment:

DMTWDGTCAGCADWTTH
 -----CMGCRGC----

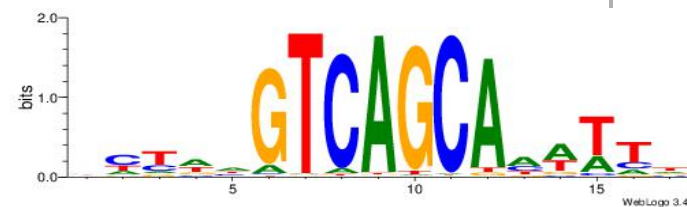
Original motif

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

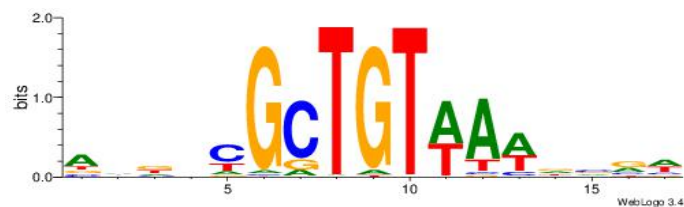
Number of overlap: 7
Similarity score: 0.0292668

Alignment:

WVHWTWACAGCGBHBT
-----CMGCRGC--

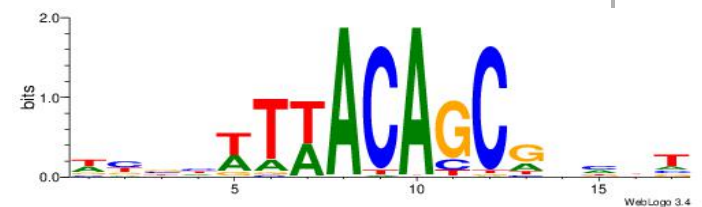
Original motif

Consensus sequence: AVDVCGCTGTAWDVVW



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

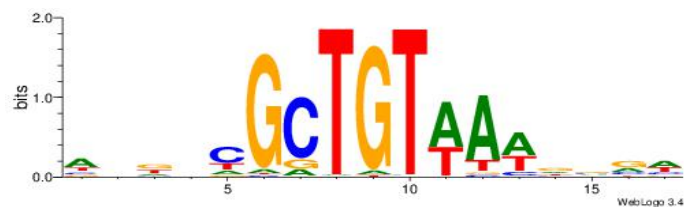
Alignment:

WVHWTWACAGCGHHVT
-----CMGCRGC--

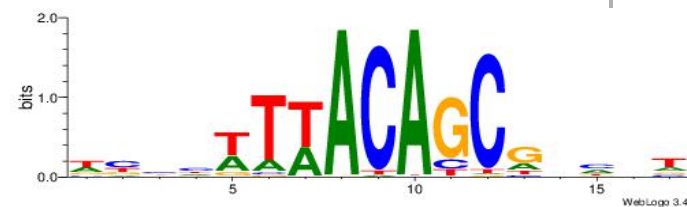
Original motif

Reverse complement motif

Consensus sequence: AVDHCGCTGTWAWDVVW



Consensus sequence: WVVHWTWACAGCGHHVT



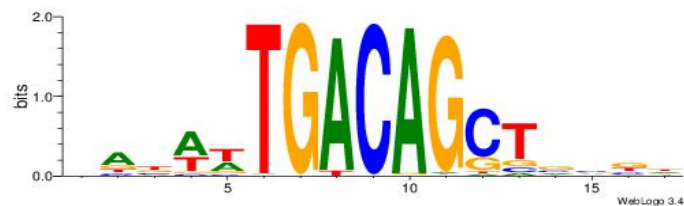
Motif ID: [UP00122](#)
Motif name: Tgif1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 7
Similarity score: 0.0332976

Alignment:

DABWWTGACAGCTVVBD
-----CMGCRGC---

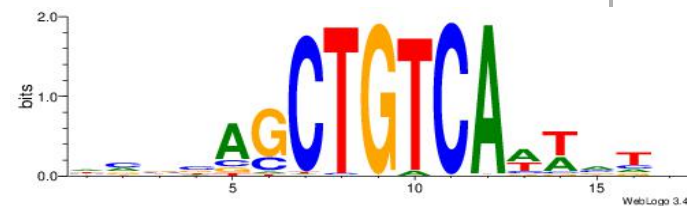
Original motif

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

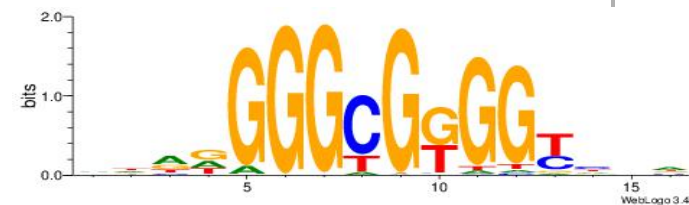
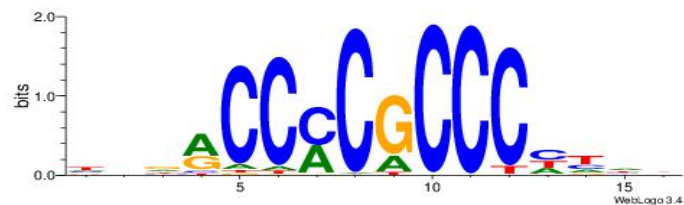
---GGGGMGGG-----

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

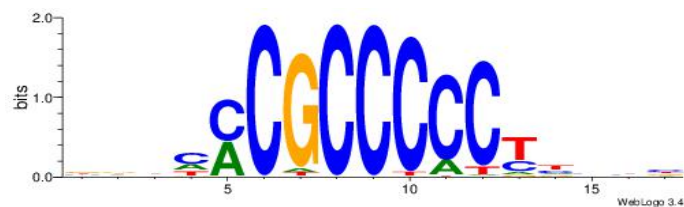


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00490878

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

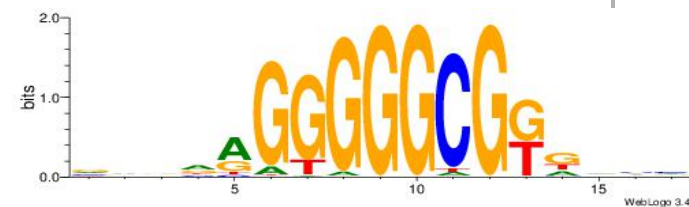
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00007](#)

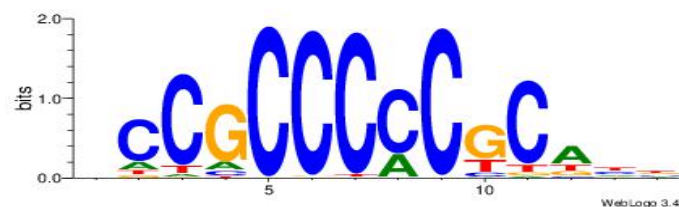
Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0.0101441

Alignment:

HCCGCCCCCGCAHB
 CCCRCCCC-----

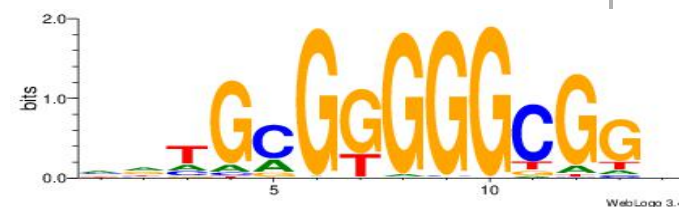
Original motif

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

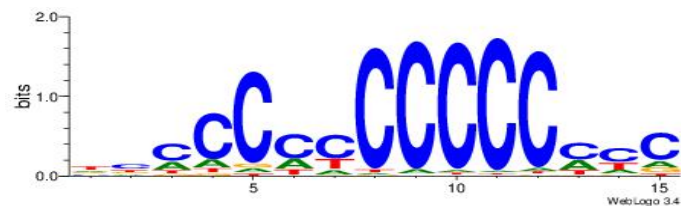
Alignment:

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

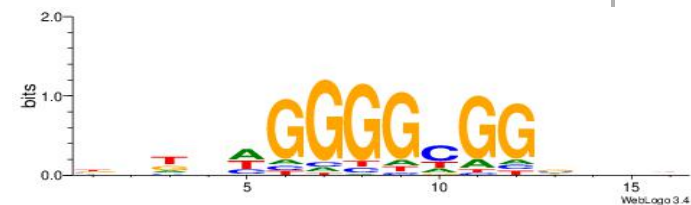
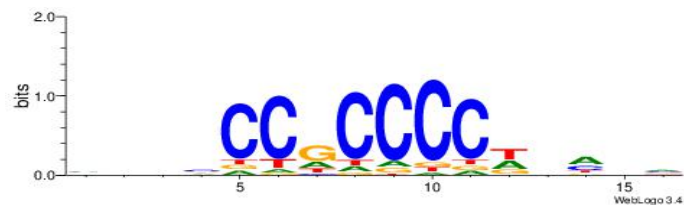
---CCCRCCCC-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



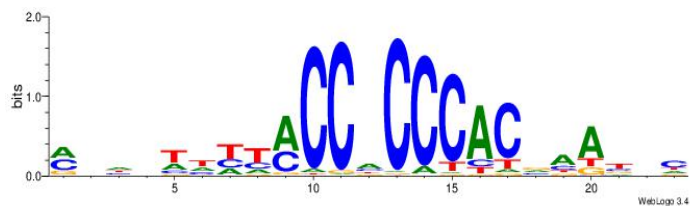
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0252184

Alignment:

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

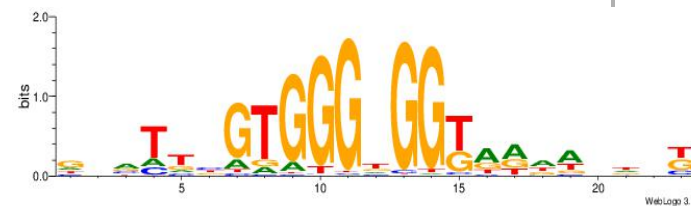
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

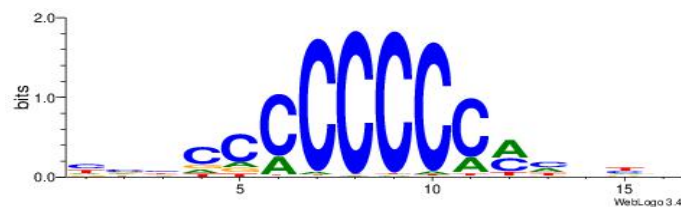


Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0258528

Alignment:
 HVBCCCCCCCCMHHHB
 --CCCRCCCC-----

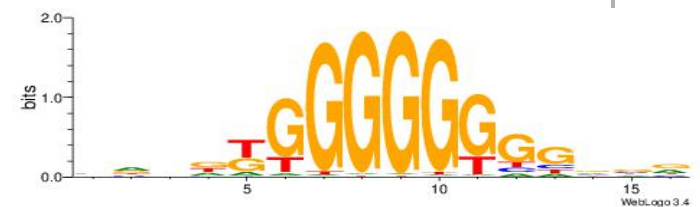
Original motif

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

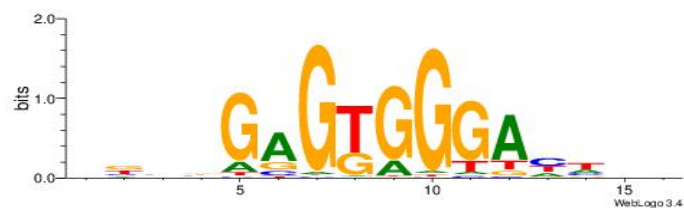
Number of overlap: 8
Similarity score: 0.0318239

Alignment:

BHHDTCCTACTCBDBV
-----CCCRCCCC---

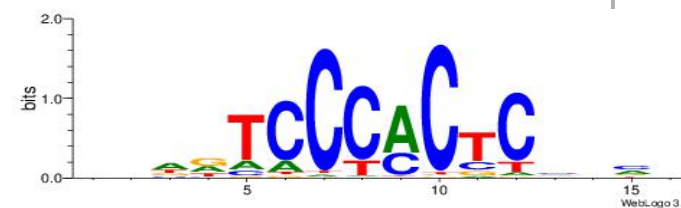
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTACTCBDBV



Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0333599

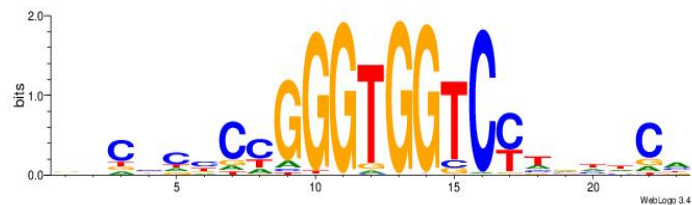
Alignment:

HGDHVHKGACCAACCGGBGBGDB
-----CCCRCCCC-----

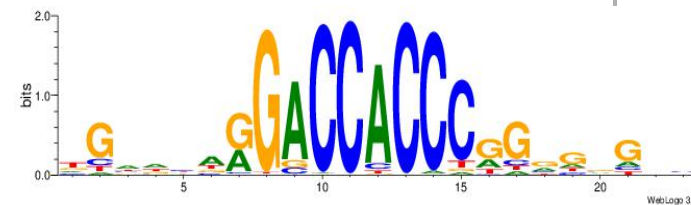
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



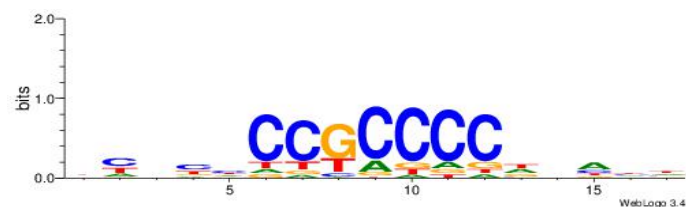
Motif ID: [UP00033](#)
 Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0336185

Alignment:

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

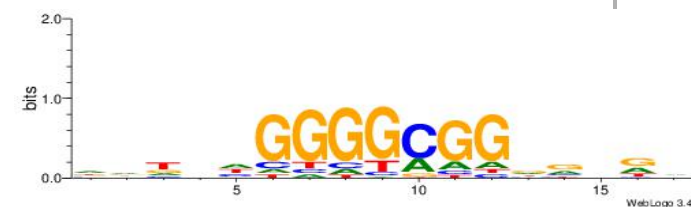
Original motif

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

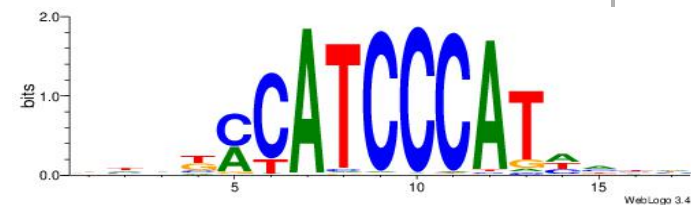
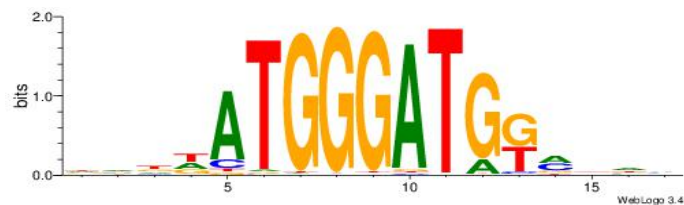
-----CTGGGA-----

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

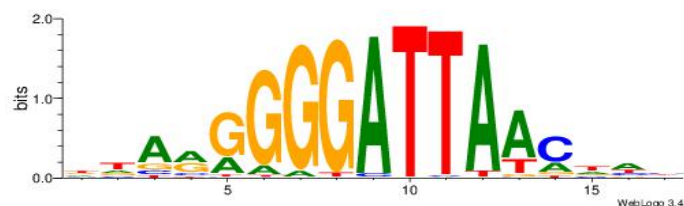


Motif ID: [UP00216](#)
 Motif name: Obox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 6
 Similarity score: 0.000600574

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

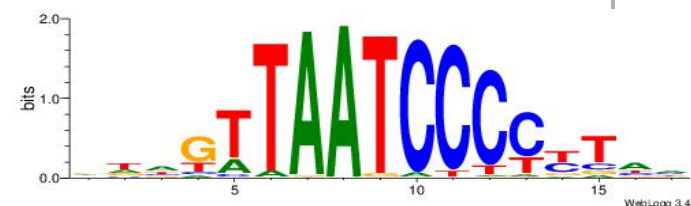
Original motif

Consensus sequence: DDARGGGGATTAACDHH



Reverse complement motif

Consensus sequence: DHDGTTAATCCCCKTDD



Motif ID: [UP00229](#)

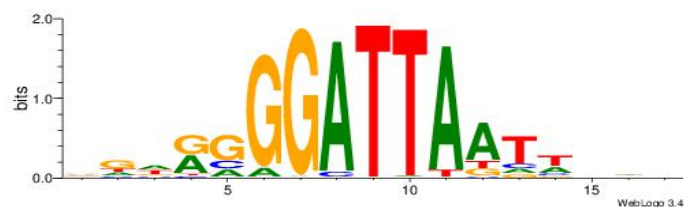
Motif name: Otx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 10
 Number of overlap: 6
 Similarity score: 0.0140775

Alignment:

VHHWATTAATCCCMDHH
 -----TCCCAG--

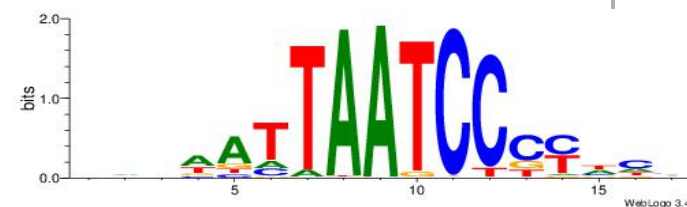
Original motif

Consensus sequence: DDRG GGGATTAATW HHHB



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

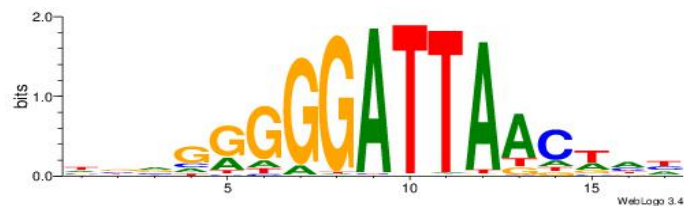
Alignment:

HHWGTTAATCCCCBBH

-----TCCCAG----

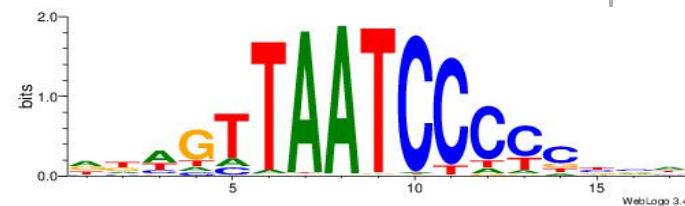
Original motif

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

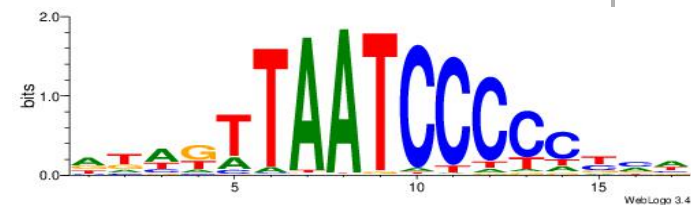
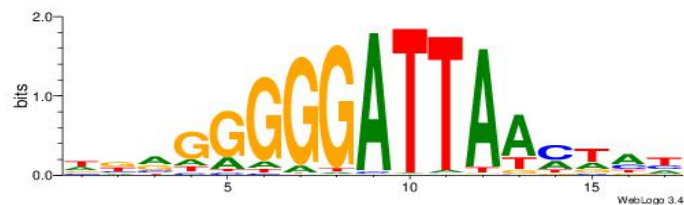
-----TCCCAG----

Original motif

Consensus sequence: DBRGGGGGATTAAMTAH

Reverse complement motif

Consensus sequence: HTARTTAATCCCCCKBD



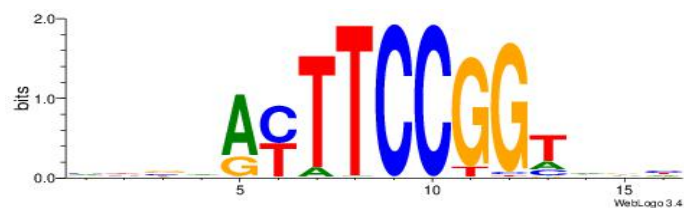
Motif ID: [UP00416](#)
 Motif name: Fli1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.018604

Alignment:

DHDACCGGAAKTBBVV
 ----CTGGGA-----

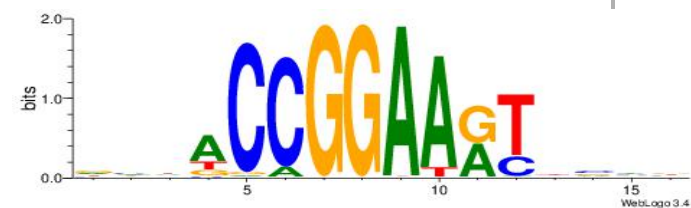
Original motif

Consensus sequence: VBBVAYTTCCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAAKTBBVV



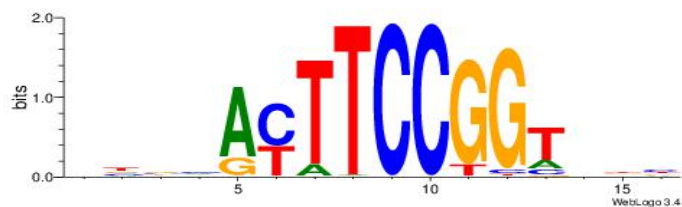
Motif ID: [UP00411](#)
 Motif name: Erg
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0196433

Alignment:

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

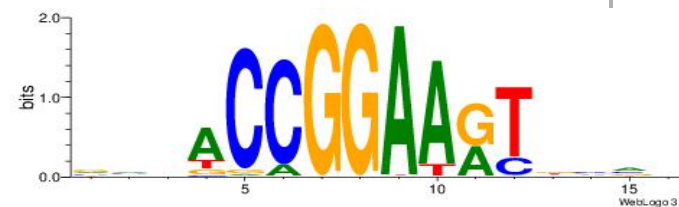
Original motif

Consensus sequence: VBBVAYTTCCGGTDDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



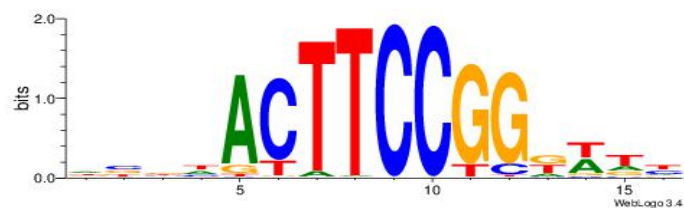
Motif ID: [UP00413](#)
 Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

Number of overlap: 6
Similarity score: 0.0196806

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

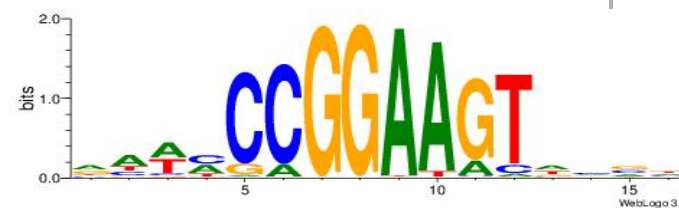
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



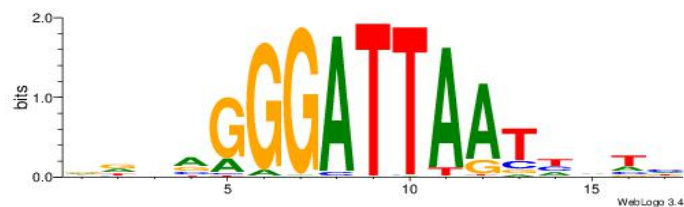
Motif ID: [UP00143](#)
Motif name: Dobox5
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 6
Similarity score: 0.0199632

Alignment:
DDHVGGGATTAATHDTH
--CTGGGA-----

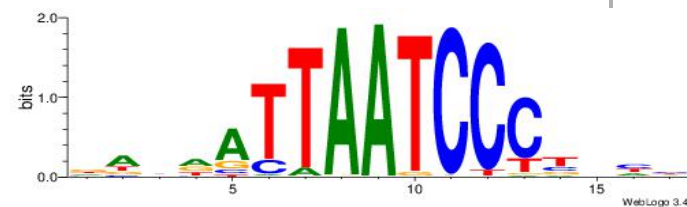
Original motif

Reverse complement motif

Consensus sequence: DDHVGGGATTAATHDTH



Consensus sequence: DADHATTAATCCCBHHH



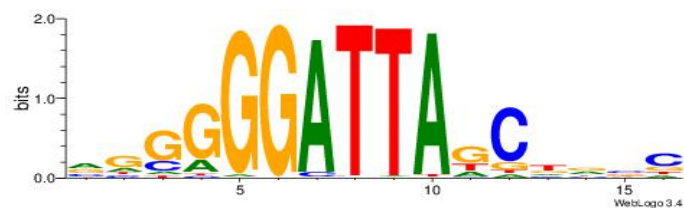
Motif ID: [UP00265](#)
Motif name: Pitx3
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0210625

Alignment:

GBHDGCTAATCCCCCB
-----TCCCAG--

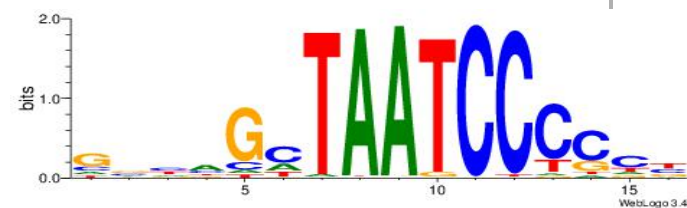
Original motif

Consensus sequence: VGGGGGATTAGCDDBC



Reverse complement motif

Consensus sequence: GBHDGCTAATCCCCCB



Dataset #: 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:

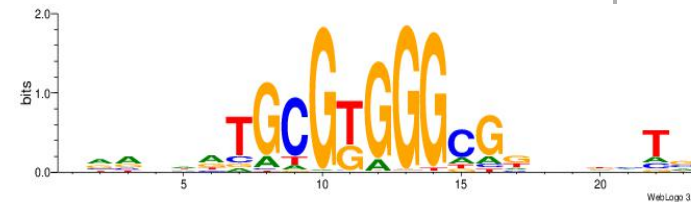
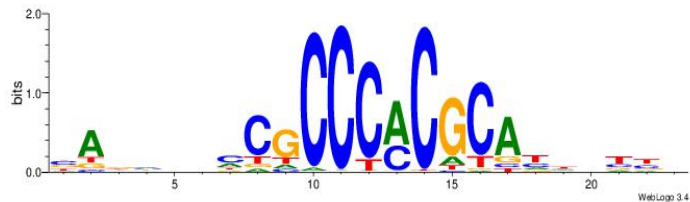
```
VVVDHHTGCGYGGGCGDHHVHTB
-----YGCGTG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

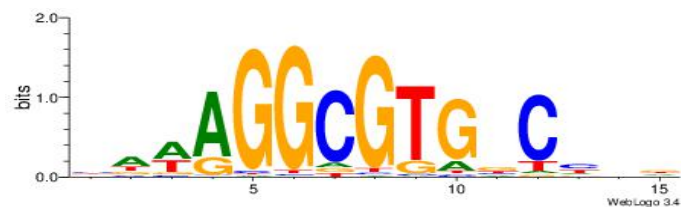
Consensus sequence: VVVDHHTGCGYGGGCGDHHVHTB



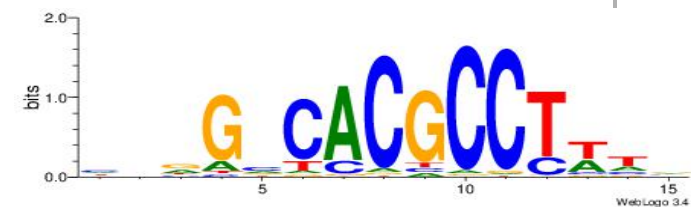
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

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

Original motif
 Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif
 Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00060](#)

Motif name:	Max_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	6
Similarity score:	0.00348048

Alignment:

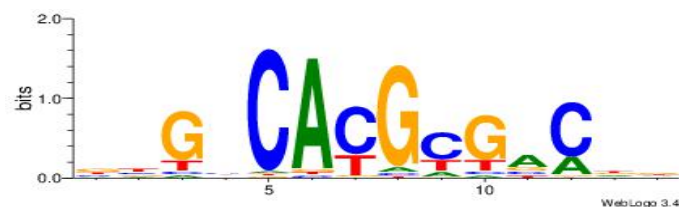
```

HDGTCGCGTGDCVB
----YGCGTG-----

```

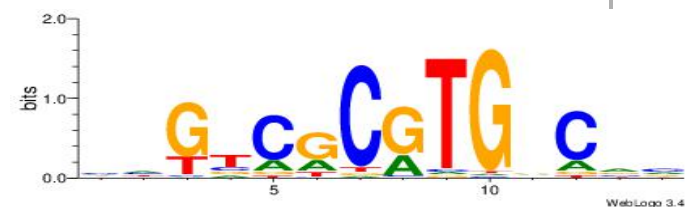
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



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

Similarity score: 0.00526158

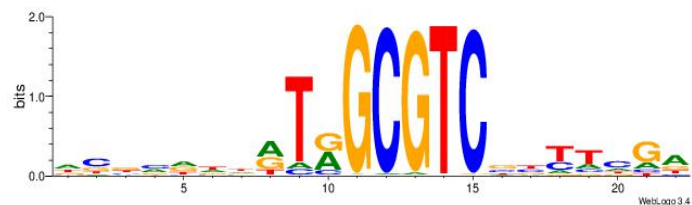
Alignment:

TCDAMVBGACGCMACDDDVBB

-----CACGCM-----

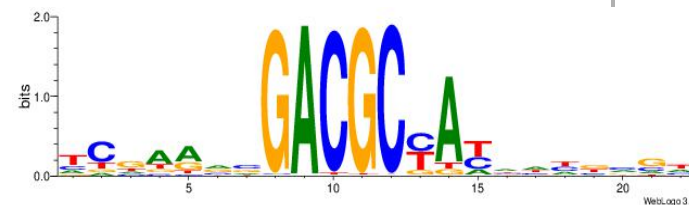
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMACDDDVBB



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

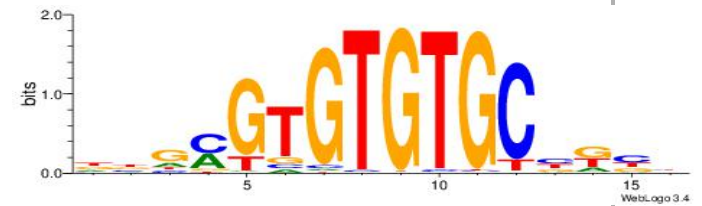
---YGCGTG-----

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

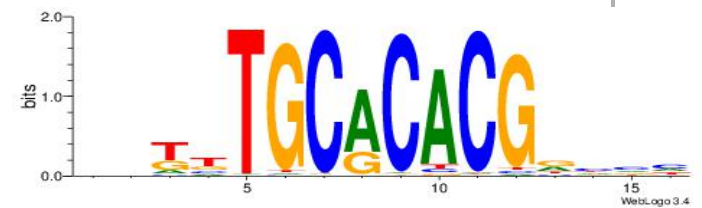
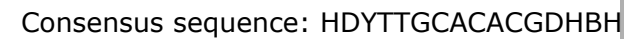
Consensus sequence: HBGYGTGTGTGCVRVD



Alignment:

```
HDYTTGCACACGDHBH
-----CACGCM--
```

Consensus sequence: DBDHCGTGTGCAAMDH



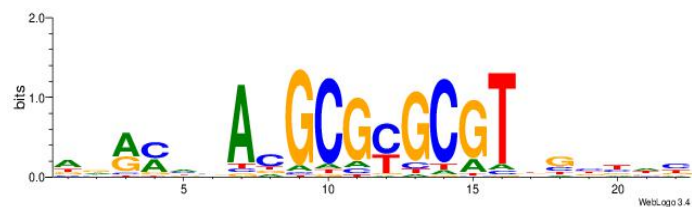
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0123233

Alignment:

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

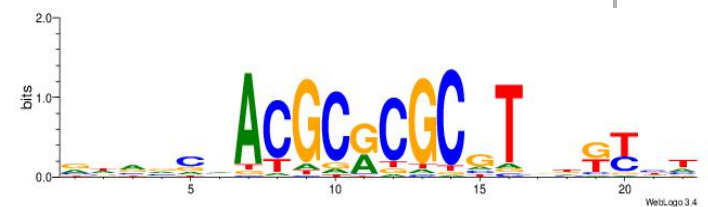
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



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

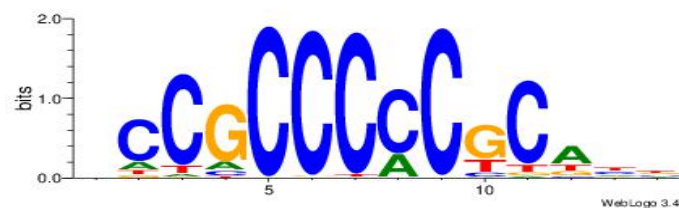
Number of overlap: 6
Similarity score: 0.0141579

Alignment:

HCCGCCCCCGCAHB
-----CACGCM--

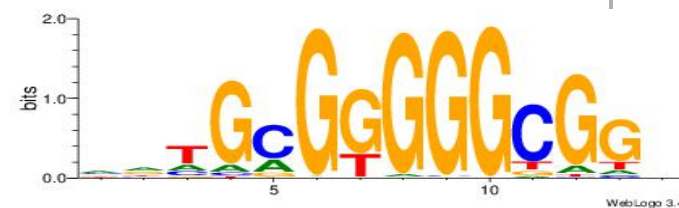
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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

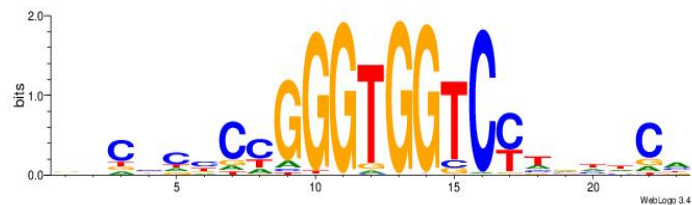
Alignment:

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

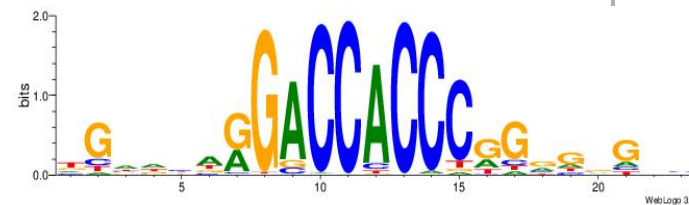
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



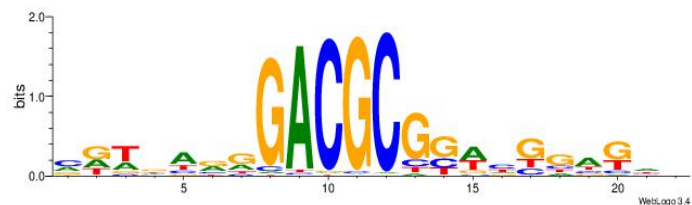
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.0172109

Alignment:

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

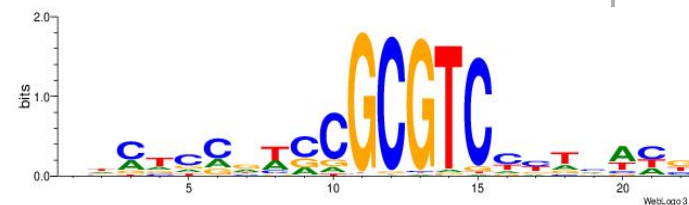
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 2 **Motif ID: 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--

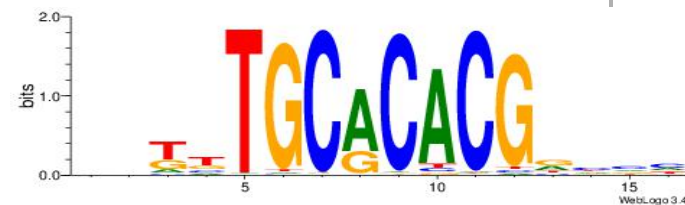
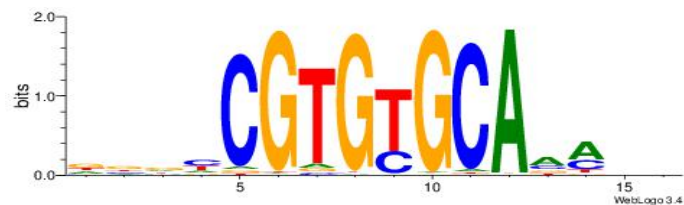
```

Original motif

Consensus sequence: DBDHC GTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH

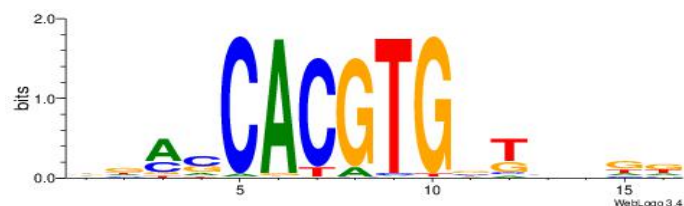


Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000574345

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

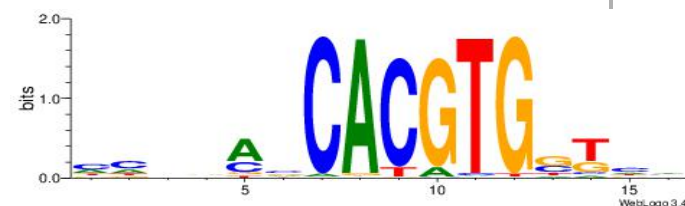
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)

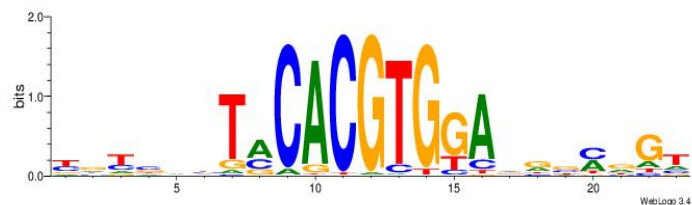
Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.00642455

Alignment:

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

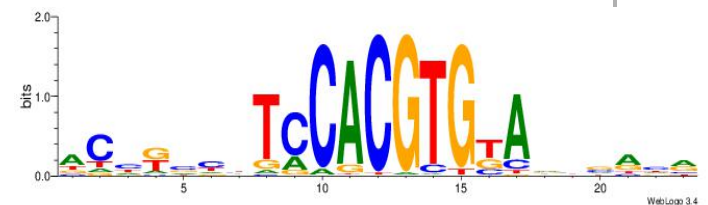
Original motif

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

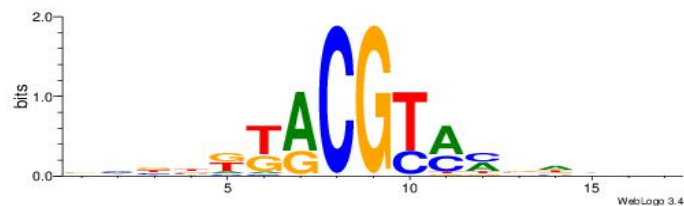
Alignment:

BVVDVRYACGTRYVBHB

-----VBACGTGV-----

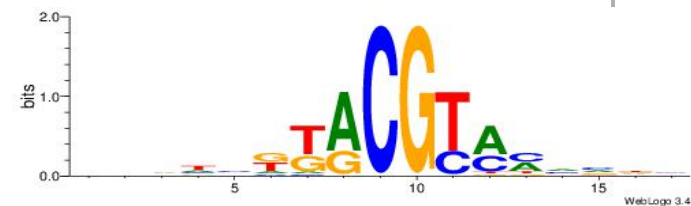
Original motif

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

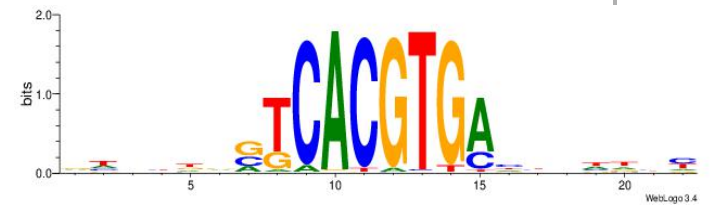
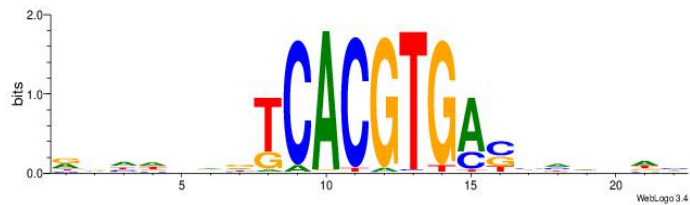
-----VCACGTBV-----

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

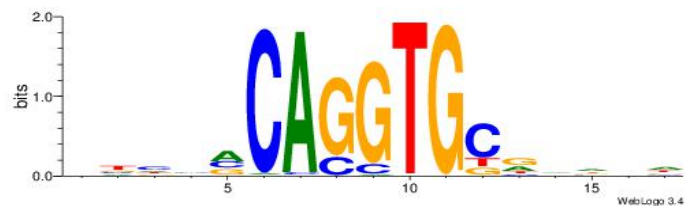
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



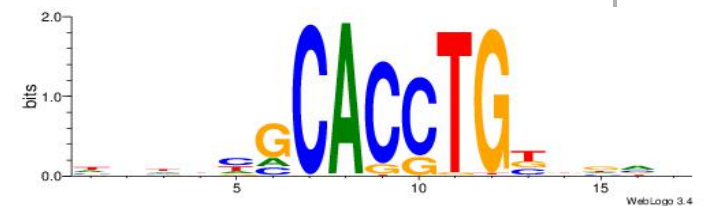
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0184296

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

Original motif
 Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
 Consensus sequence: DHDBHGCACCTGBDDVB



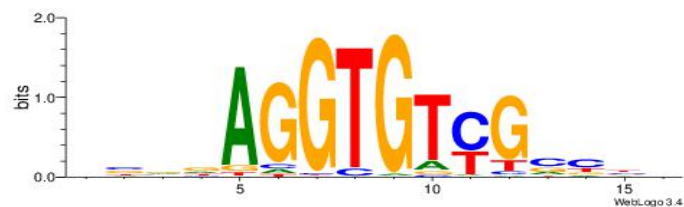
Motif ID: [UP00068](#)
 Motif name: Eomes_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV
 -----VCACGTBV--

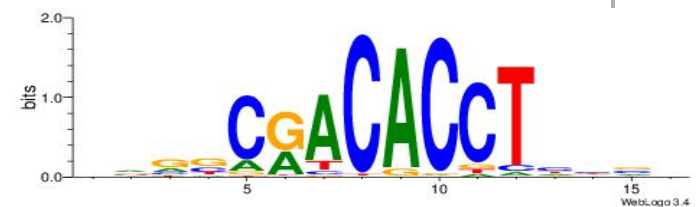
Original motif

Consensus sequence: VBVDAGGTGTGVBVV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV



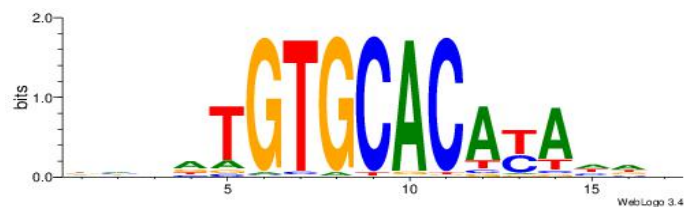
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9

Number of overlap: 8
Similarity score: 0.0189568

Alignment:
DHVDTGTGCACAYAHDH
-VBACGTGV-----

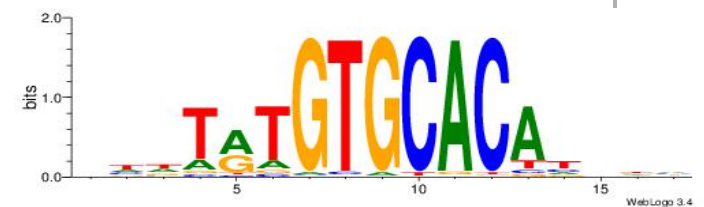
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



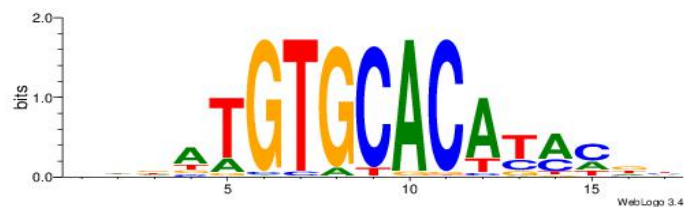
Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0198987

Alignment:
HHRTATGTGCACATHHD
--VBACGTGV-----

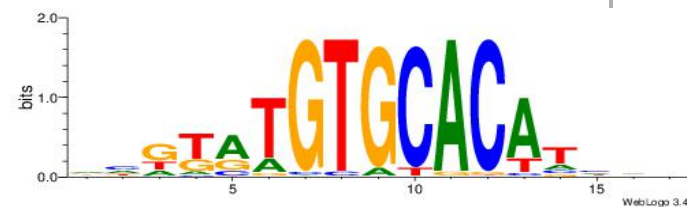
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



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

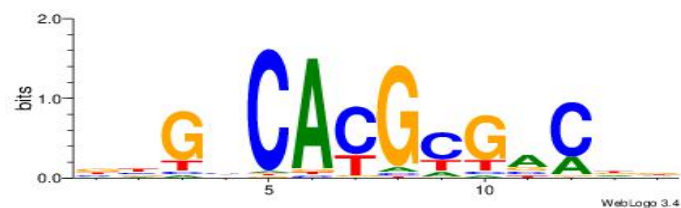
Alignment:

BBGHCACGCGACDD

---VCACGTBV---

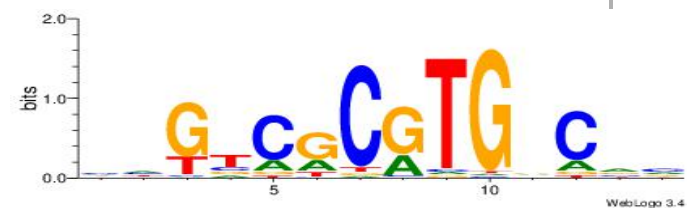
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



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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