



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters

Number of files:	4
Number of top significant motifs:	10
Number of best matches:	5
Similarity cutoff $\geq$	0.75
Matching motif database:	UniProbe Mus Musculus
Phylogenetic tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM01.txt	51	1
MEME-CHIP_DM01.txt	9	2
PScanChIP_DM01.txt	27	3
RSAT_peak-motifs_DM01.txt	40	4

RESULTS

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

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

Original motif

Consensus sequence: CCCASCMC



Reverse complement motif

Consensus sequence: GYGSTGGG



Best Matches for Motif ID 6 (Highest to Lowest)

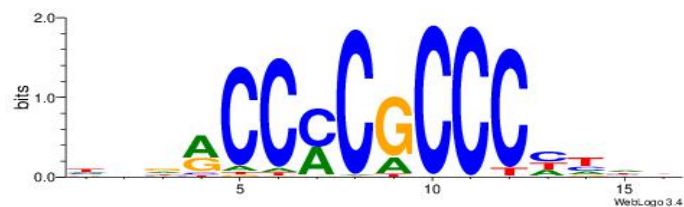
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.00921145

Alignment:

```
HBDRCCMCGCCCHHHD
----CCCASCMC----
```

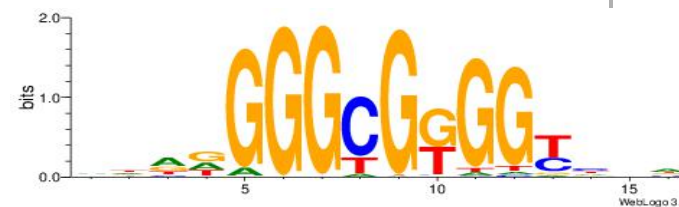
Original motif

Consensus sequence: HBDRCCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00539](#)
Motif name: Gli2_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 13
Number of overlap: 8
Similarity score: 0.00924564

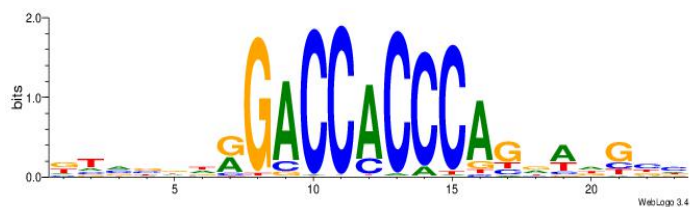
Alignment:

DBCDWHCTGGGTGGTCMDHBBAH

---GYGSTGGG-----

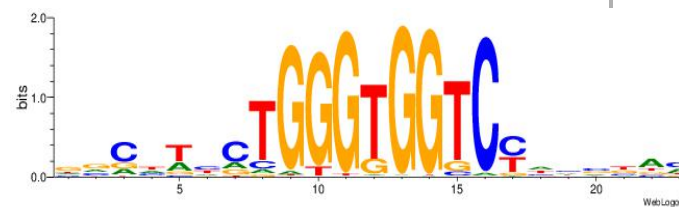
Original motif

Consensus sequence: DTVBDDRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



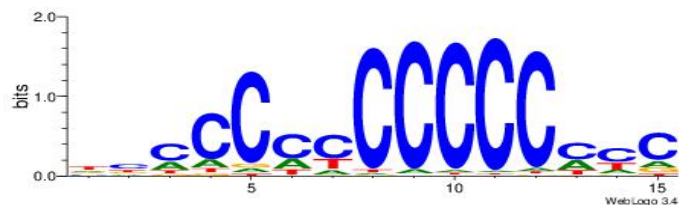
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0121799

Alignment:

DBCCCCCCCCCMYC
 --CCASC MC-----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGGBD



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

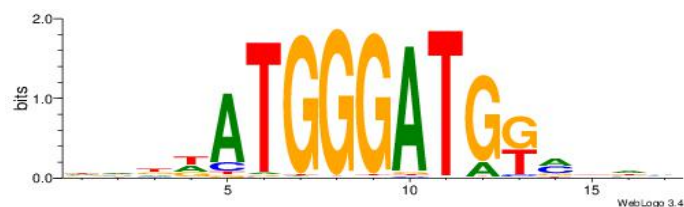
Position number: 4
Number of overlap: 8
Similarity score: 0.014495

Alignment:

BDDYYCATCCCATDDBD
---CCASC MC-----

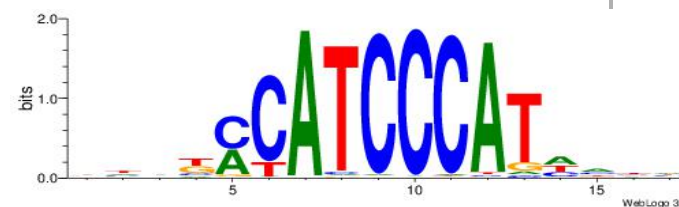
Original motif

Consensus sequence: DVDDATGGGATGKMDDV



Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD



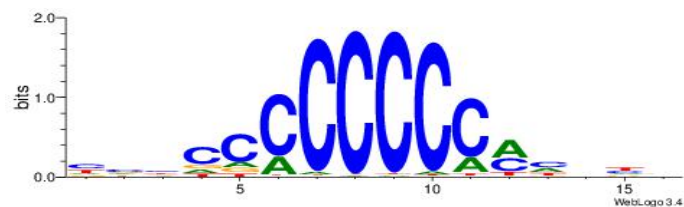
Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0175119

Alignment:

BHHDYGGGGGGGGBVD
---GYGSTGGG-----

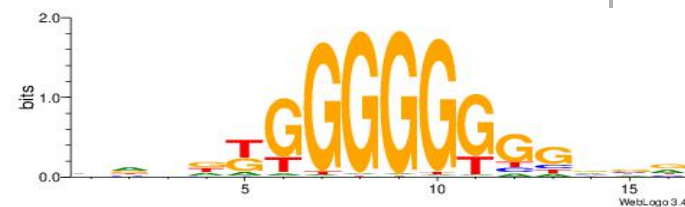
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Dataset #: 1

Motif ID: 24

Motif name: Motif 24

Original motif

Consensus sequence: CACGB



Reverse complement motif

Consensus sequence: BCGTG



Best Matches for Motif ID 24 (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:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	5
Similarity score:	0

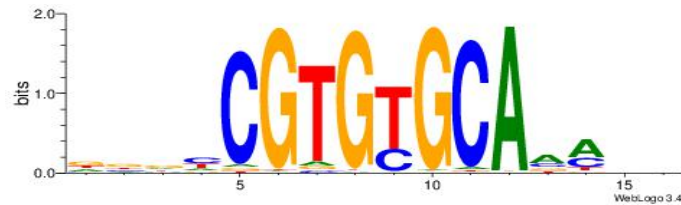
Alignment:

DBDHCGTGTGCAAMDH

---BCGTG-----

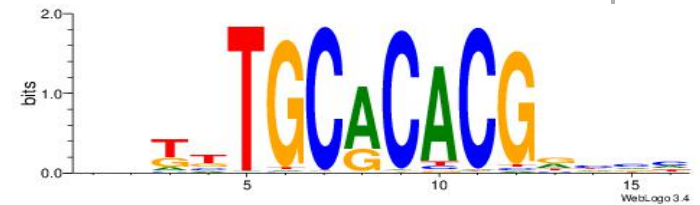
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBB



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:	10
Number of overlap:	5
Similarity score:	0.0184689

Alignment:

ACHRBHDTCCACGTGYAHBMMH

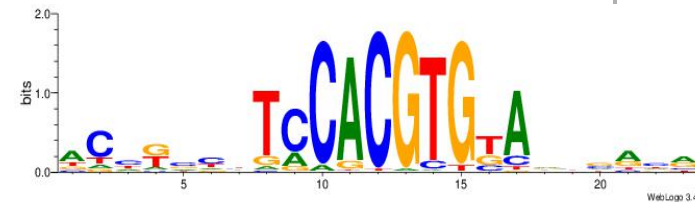
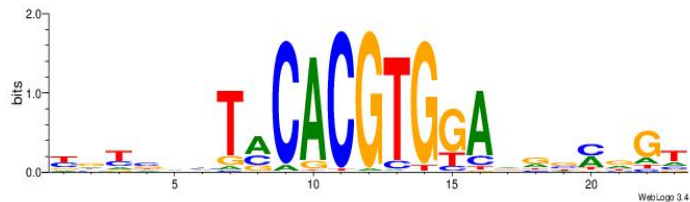
-----CACGB-----

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH

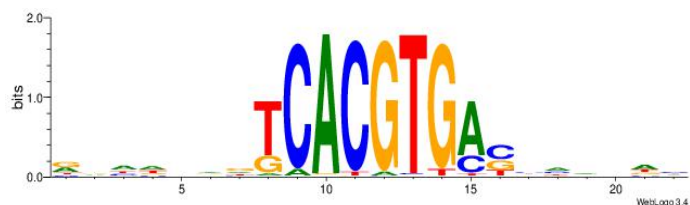


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 9
 Number of overlap: 5
 Similarity score: 0.0193222

Alignment:
 RDHDBVDTACGTGASBHVHDH
 -----CACGB-----

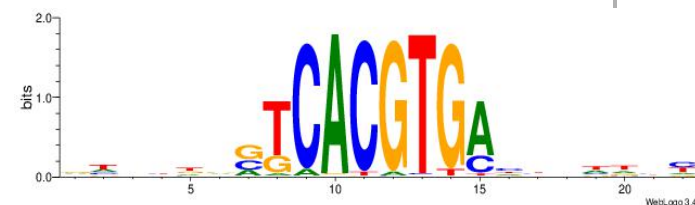
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH



Reverse complement motif

Consensus sequence: DDHBHBSTACGTGAHBBDHMH



Motif ID: [UP00060](#)

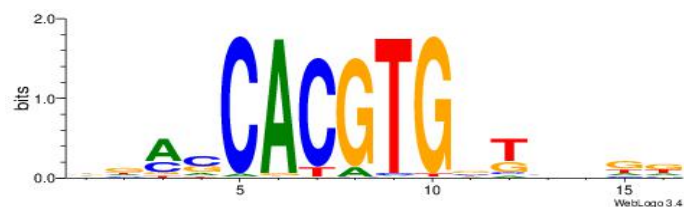
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	5
Similarity score:	0.0231779

Alignment:

```
DDASCACGTGBTBVDD
----CACGB-----
```

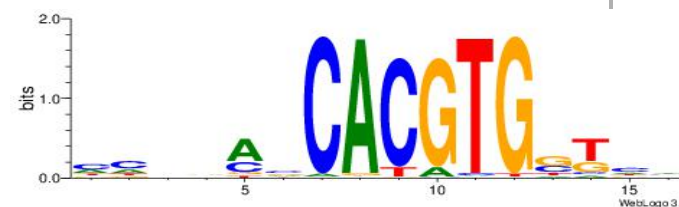
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID:	UP00060
Motif name:	Max_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: 0.02459

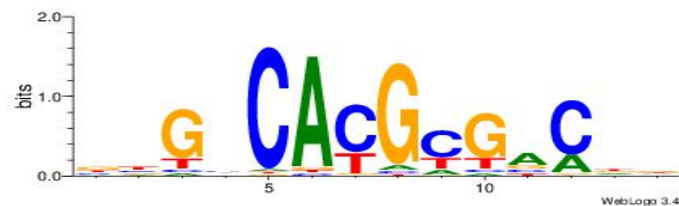
Alignment:

HDGTCGCGTGDCVB

-----BCGTG-----

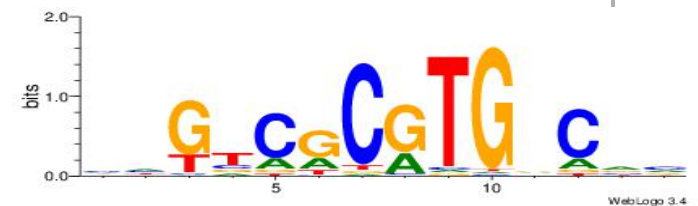
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 1 **Motif ID: 25** **Motif name: Motif 25**

Original motif

Consensus sequence: TTTAAW



Reverse complement motif

Consensus sequence: WWTAAA



Best Matches for Motif ID 25 (Highest to Lowest)

Motif ID: [UP00180](#)
Motif name: Hoxd13
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:	6
Similarity score:	0

Alignment:

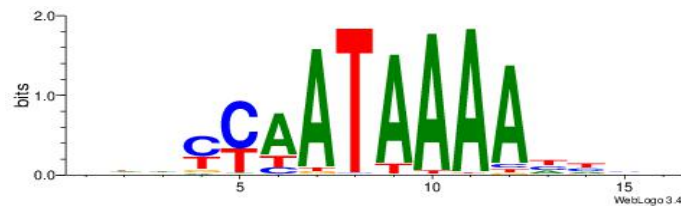
```

HDHHTTTTATTKKHDD
-----TTTAWW-----

```

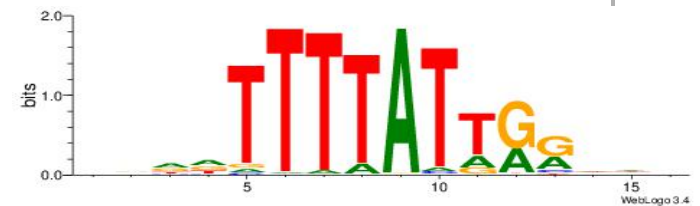
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



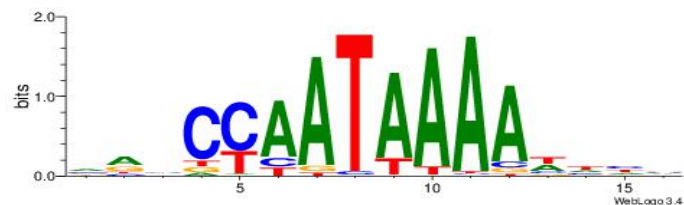
Motif ID:	UP00134
Motif name:	Hoxb13
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	6
Similarity score:	0.00930561

Alignment:

VRHCCAATAAAWHHV
 -----WWTAAA-----

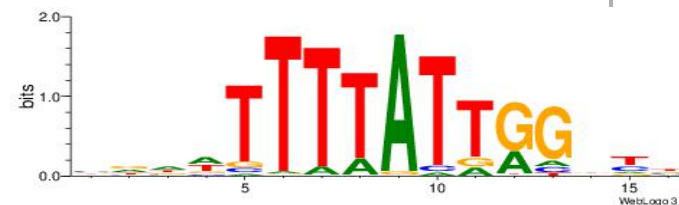
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTTATTGGDKB



Motif ID:	UP00121
Motif name:	Hoxd10
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:	0.0106116

Alignment:

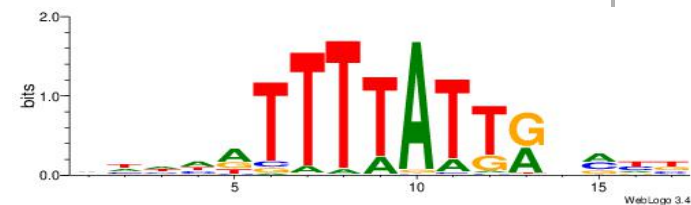
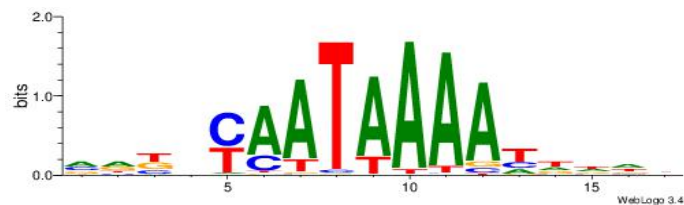
VDKVYAATAAAATDDDH
 -----WWTAAA-----

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

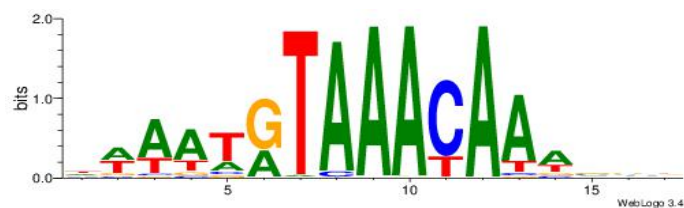


Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0135319

Alignment:
 VVVWTTGTTTAMATTWD
 -----TTTAWW-----

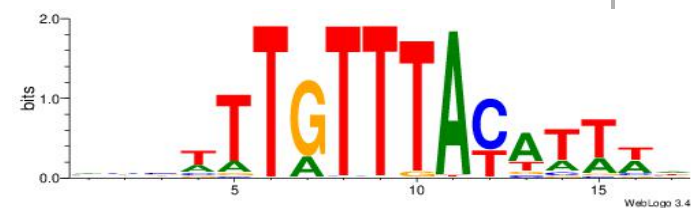
Original motif

Consensus sequence: DWAATRTAAACA WVV B



Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00133](#)

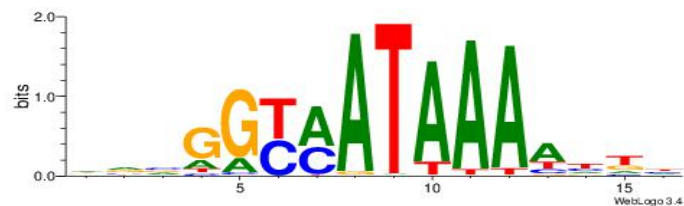
Motif name: Cdx2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0138323

Alignment:

HRHTTTTATYMCCVBD
 -----TTTAWW-----

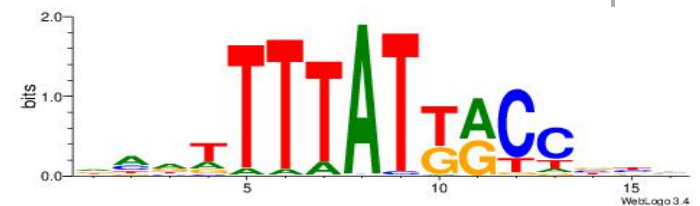
Original motif

Consensus sequence: DVVGGYMATAAAAHKH



Reverse complement motif

Consensus sequence: HRHTTTTATYMCCVBD



Dataset #: 2 Motif ID: 53 Motif name: Motif 53

Original motif

Consensus sequence: TSTGTR

Reverse complement motif

Consensus sequence: MACASA



Best Matches for Motif ID 53 (Highest to Lowest)

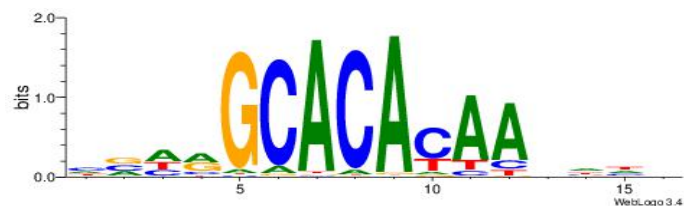
Motif ID: [UP00026](#)
 Motif name: Zscan4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0

Alignment:

BHHHTTGTGTGCKHVD
 -----TSTGTR-----

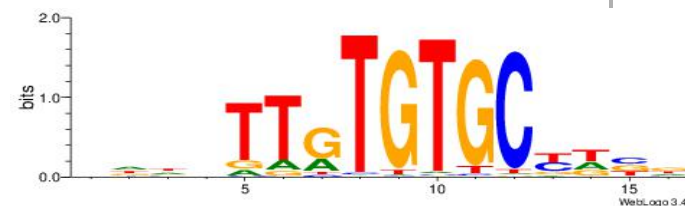
Original motif

Consensus sequence: HVHRGCACACAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



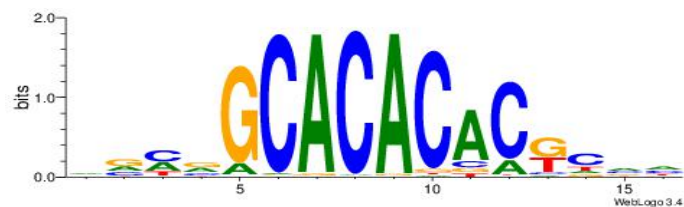
Motif ID:	UP00042
Motif name:	Gm397_second
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	6
Similarity score:	0.00423357

Alignment:

```
HBGYGTGTGTGCVRVD
-----TSTGTR-----
```

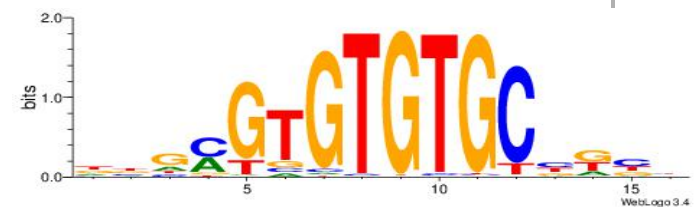
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



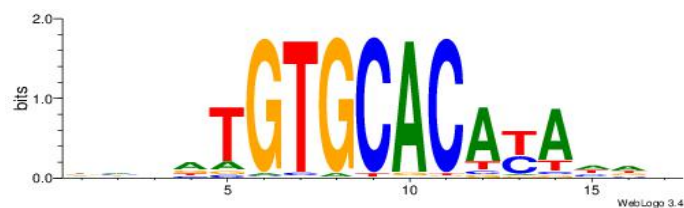
Motif ID:	UP00026
Motif name:	Zscan4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 6
Similarity score: 0.00980483

Alignment:
HDHTMTGTGCACADVHD
---TSTGTR-----

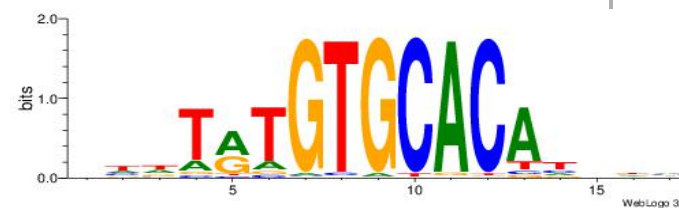
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



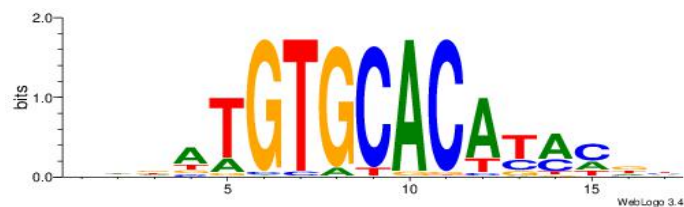
Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 6
Similarity score: 0.0166332

Alignment:
HHRTATGTGCACATHHD
---TSTGTR-----

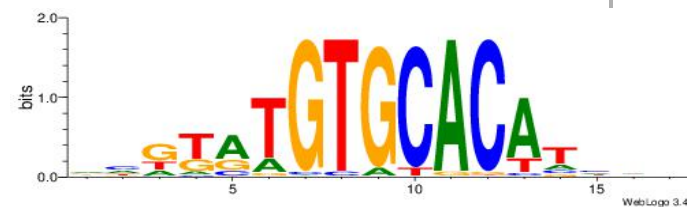
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD

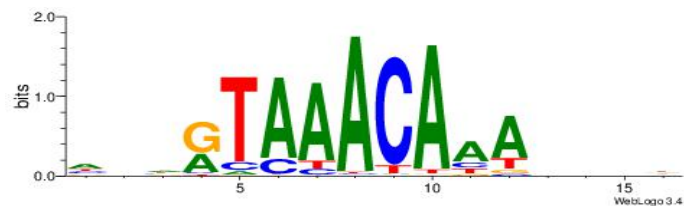


Motif ID: [UP00041](#)
Motif name: Foxj1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 6
Similarity score: 0.0213483

Alignment:
HDHRTAAACAAHDDD
-----MACASA-----

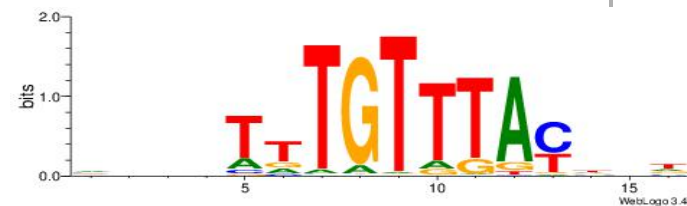
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



Dataset #: 2 **Motif ID: 54** **Motif name: Motif 54**

Original motif

Consensus sequence: RGAAA



Reverse complement motif

Consensus sequence: TTTCK



Best Matches for Motif ID 54 (Highest to Lowest)

Motif ID:	UP00018
Motif name:	Irf4_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:	5
Similarity score:	0

Alignment:

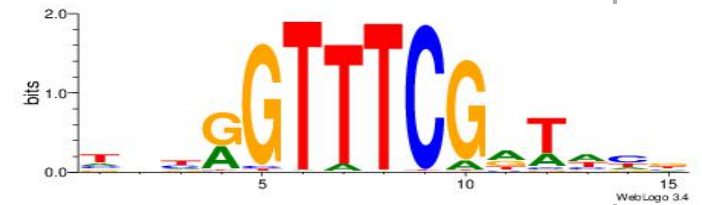
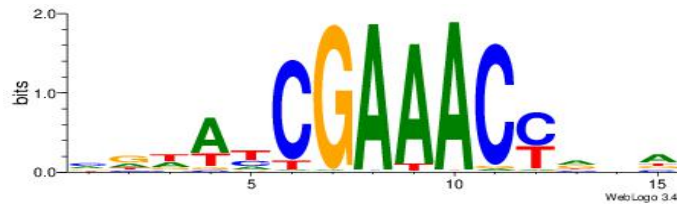
```
TBDKGTTCGMDHV
-----TTTCK-----
```

Original motif

Consensus sequence: VDDAYCGAAACYDVA

Reverse complement motif

Consensus sequence: TBDKGTTCGMDHV



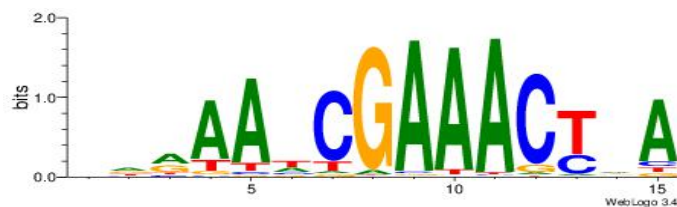
Motif ID: [UP00074](#)
 Motif name: Isgf3g_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.00225908

Alignment:

TDAGTTTCGWTTKDV
 ----TTTCK-----

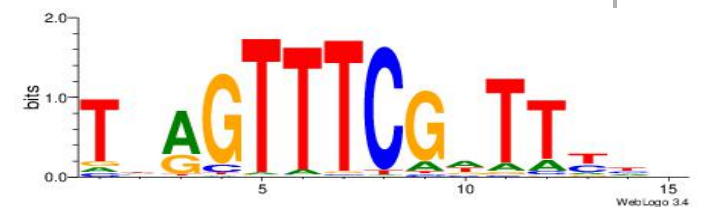
Original motif

Consensus sequence: VDRAAWCGAAACTDA



Reverse complement motif

Consensus sequence: TDAGTTTCGWTTKDV



Motif ID: [UP00040](#)

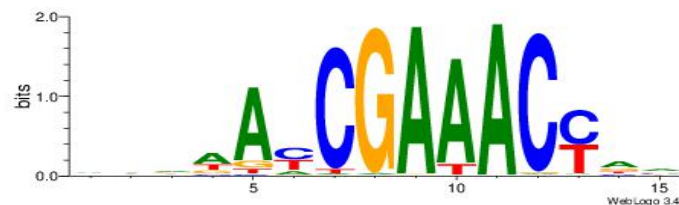
Motif name: Irf5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 5
 Similarity score: 0.00434877

Alignment:

BDKGTTTCGKTWDDD
 ----TTTCK-----

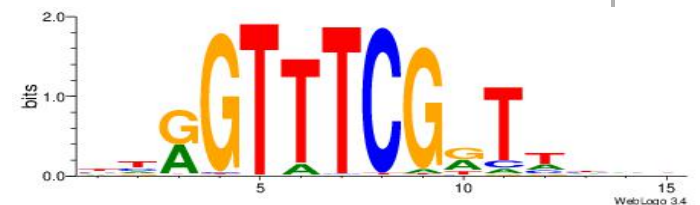
Original motif

Consensus sequence: DDDWAYCGAAACYDV



Reverse complement motif

Consensus sequence: BDKGTTTCGKTWDDD



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: 8
 Number of overlap: 5

Similarity score: 0.0136873

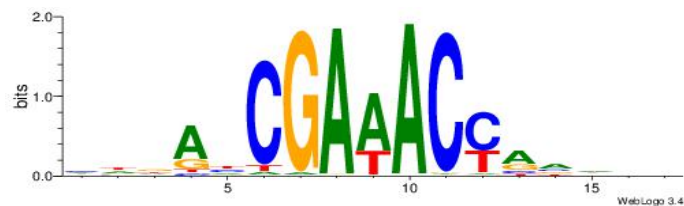
Alignment:

DHDBTKGTTTCGHTHDD

-----TTTCK-----

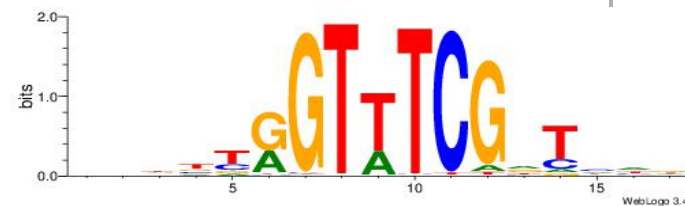
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



Motif ID: [UP00043](#)
Motif name: Bcl6b_primary
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: 5
Similarity score: 0.0141224

Alignment:

DCTTTCKAGGAATHHV

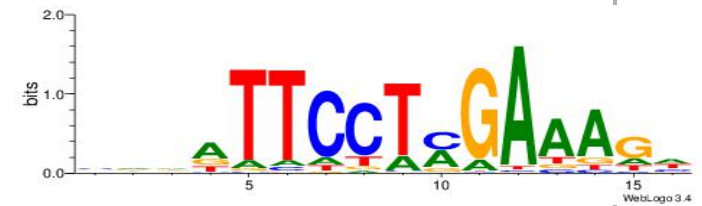
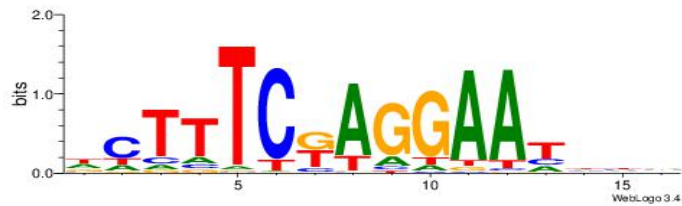
--TTTCK-----

Original motif

Consensus sequence: DCTTTCKAGGAATHHV

Reverse complement motif

Consensus sequence: VHHATTCCTYGAAAGD



Dataset #: 2 Motif ID: 55 Motif name: Motif 55

Original motif

Consensus sequence: TTTAAAA



Reverse complement motif

Consensus sequence: TTTTAAA



Best Matches for Motif ID 55 (Highest to Lowest)

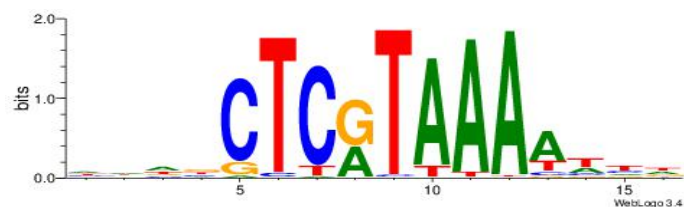
Motif ID:	UP00173
Motif name:	Hoxc13
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	7
Similarity score:	0

Alignment:

DHWTTTAMGAGBDHH
 ----TTTAAAA-----

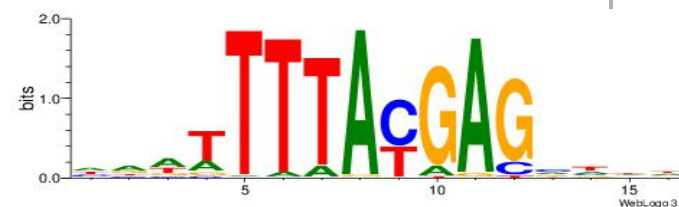
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH



Motif ID:	UP00061
Motif name:	Foxl1_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:	7
Similarity score:	0.00269372

Alignment:

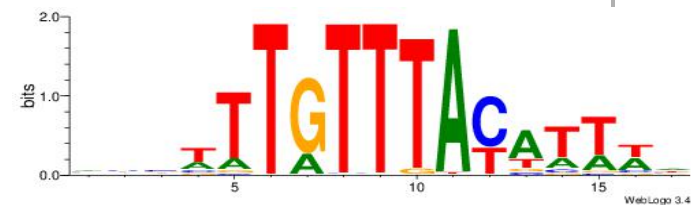
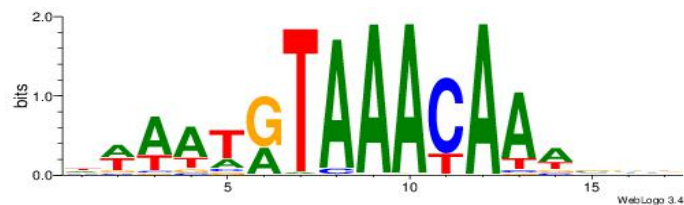
VVVWTTGTTTAMATTWD
 -----TTTAAAA---

Original motif

Consensus sequence: DWAATRTAAACAAWVVB

Reverse complement motif

Consensus sequence: VVVWTTGTTTAMATTWD

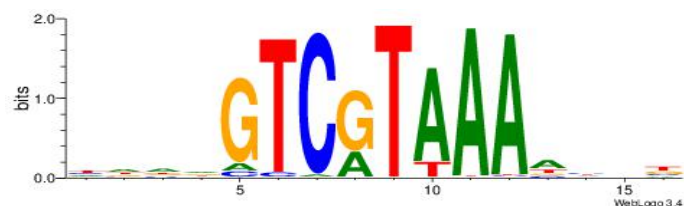


Motif ID: [UP00245](#)
 Motif name: Hoxc10
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.00395798

Alignment:
 VBDDTTTACGACDDDH
 ----TTTAAA-----

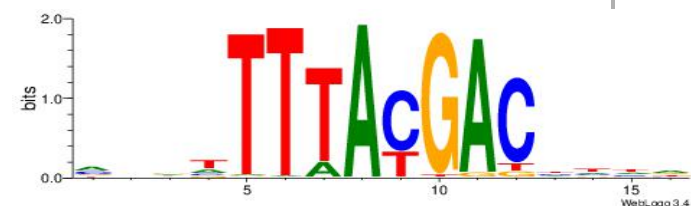
Original motif

Consensus sequence: HDDDGTCGTAAADHBB



Reverse complement motif

Consensus sequence: VBDDTTTACGACDDDH



Motif ID: [UP00246](#)

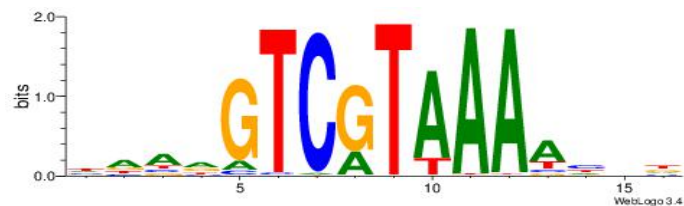
Motif name: Hoxa11
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.00543955

Alignment:

DDDTTTACGACDTH
 ----TTTAAAA-----

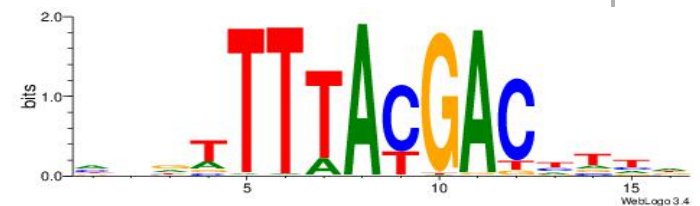
Original motif

Consensus sequence: HDADGTCGTAAAHDD



Reverse complement motif

Consensus sequence: DDDTTTACGACDTH



Motif ID: [UP00183](#)
 Motif name: Hoxa13
 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: 0.00548253

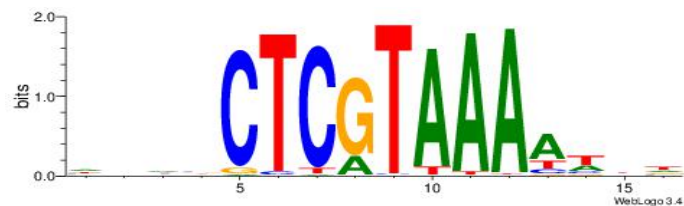
Alignment:

DVWTTTACGAGBHDH

----TTTAAA-----

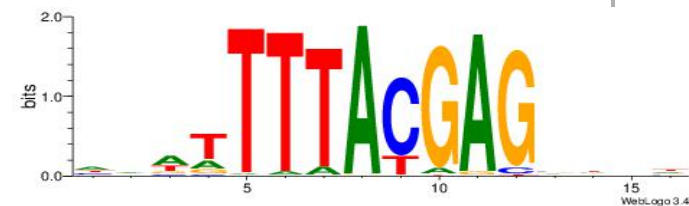
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTACGAGBHDH



Dataset #: 3 Motif ID: 64 Motif name: ARID3A

Original motif

Consensus sequence: ATYAAA



Reverse complement motif

Consensus sequence: TTTMAT



Best Matches for Motif ID 64 (Highest to Lowest)

Motif ID:	UP00212
Motif name:	Lhx5
Species:	Mus musculus
Matching format of first motif:	Original Motif

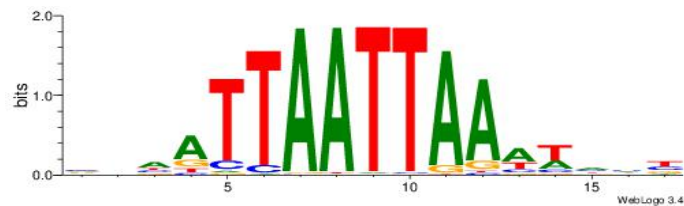
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	6
Similarity score:	0

Alignment:

```
VDHATTAATTAAAWHHB
-----ATYAAA-----
```

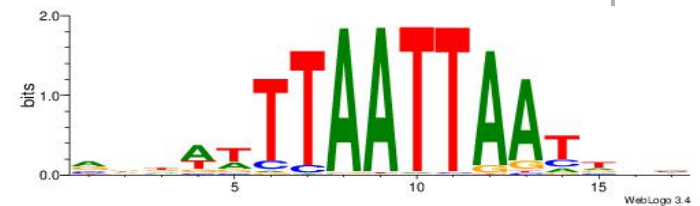
Original motif

Consensus sequence: VDHATTAATTAAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAAATTAATHHV



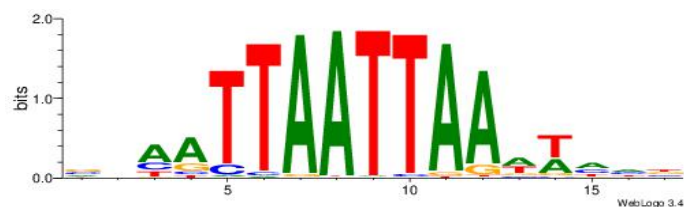
Motif ID:	UP00130
Motif name:	Lhx3
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	6
Similarity score:	0.00146194

Alignment:

VDAATTAATTAAWWHHB
-----ATYAAA-----

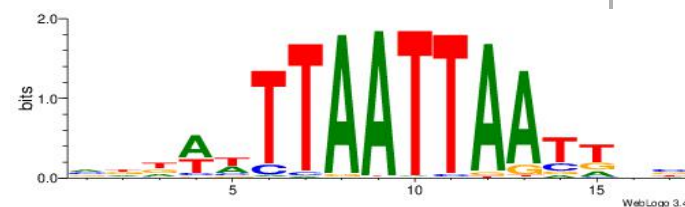
Original motif

Consensus sequence: VDAATTAATTAAWWHHB



Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV



Motif ID:	UP00169
Motif name:	Lmx1b
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:	6
Similarity score:	0.00211796

Alignment:

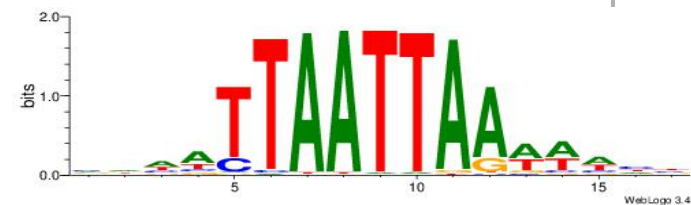
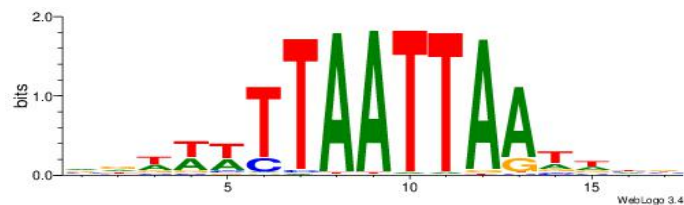
BHDATTAATTAAWWHHB
-----ATYAAA-----

Original motif

Consensus sequence: VDWWTTAATTAATDHB

Reverse complement motif

Consensus sequence: BHDATTAATTAAWWHHB

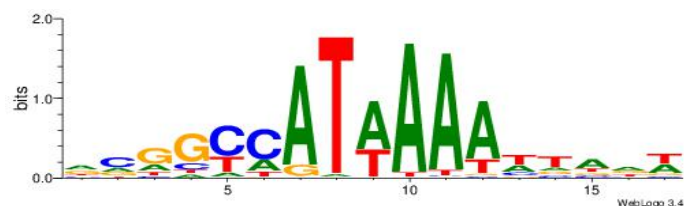


Motif ID: [UP00213](#)
 Motif name: Hoxa9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00270371

Alignment:
 DCGGYCATWAAAWTADW
 -----ATYAAA-----

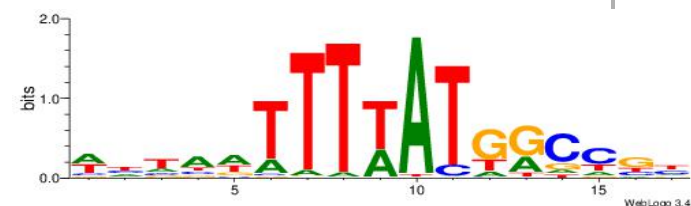
Original motif

Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



Motif ID: [UP00188](#)

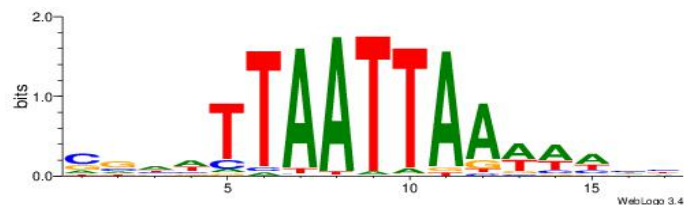
Motif name: Lmx1a
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00429494

Alignment:

BDWWTTAATTAAHHVG
 ----TTTMAT-----

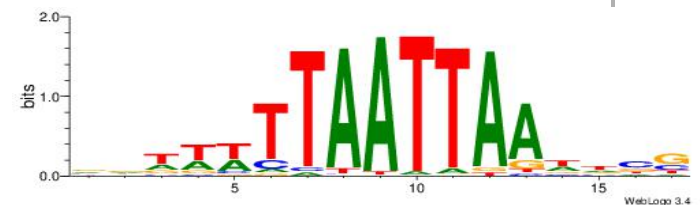
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWTTAATTAAHHVG



Dataset #: 3 Motif ID: 69 Motif name: NKX3-1

Original motif

Consensus sequence: ATACTTA

Reverse complement motif

Consensus sequence: TAAGTAT



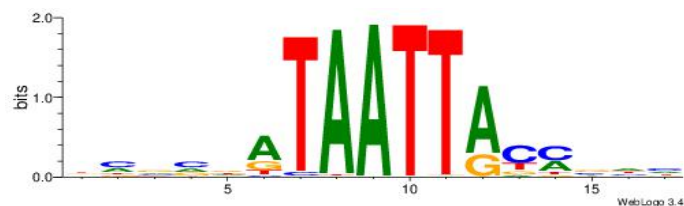
Best Matches for Motif ID 69 (Highest to Lowest)

Motif ID: [UP00154](#)
 Motif name: Dlx3
 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

Alignment:
 DHVRGTAATTATHVVDV
 -----TAAGTAT-----

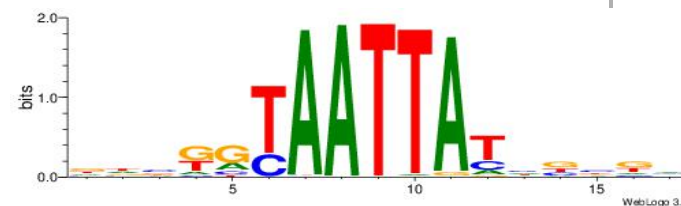
Original motif

Consensus sequence: BHVVDATAATTACMVHH



Reverse complement motif

Consensus sequence: DHVRGTAATTATHVVDV



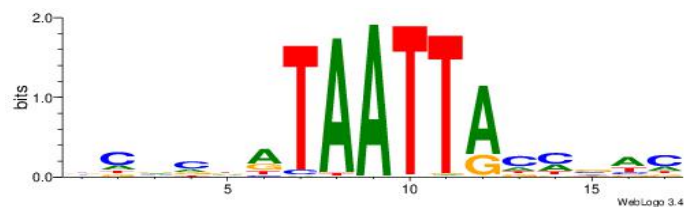
Motif ID: [UP00110](#)
 Motif name: Dlx4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 7
 Similarity score: 0.000606776

Alignment:

GHVRGTAATTATDVVG
 -----TAAGTAT-----

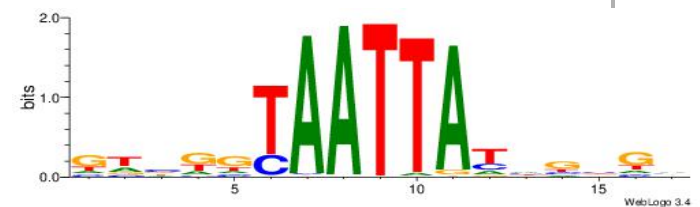
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVG



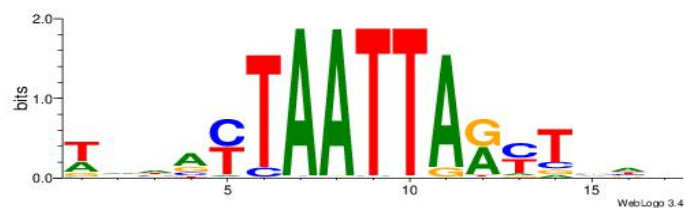
Motif ID: [UP00108](#)
 Motif name: Alx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

Number of overlap: 7
Similarity score: 0.00319583

Alignment:
VHVAKMTAATTAKTHBW
-----TAAGTAT-----

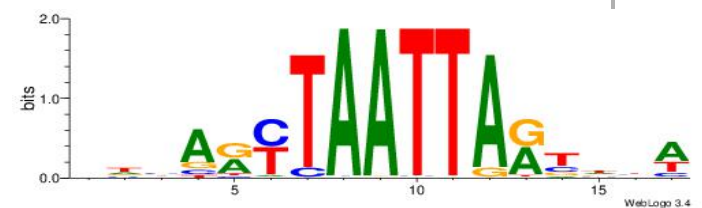
Original motif

Consensus sequence: WVHAYTAATTARYTVHV



Reverse complement motif

Consensus sequence: VHVAKMTAATTAKTHBW



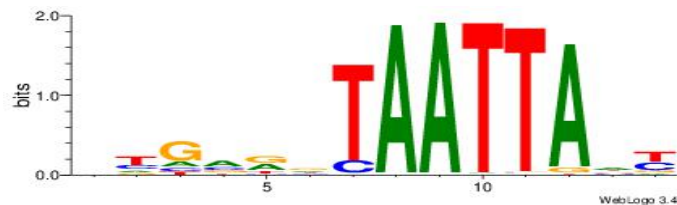
Motif ID: [UP00202](#)
Motif name: Dlx1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 7
Similarity score: 0.00693044

Alignment:
BHGVRDTAATTADY
-----ATACTTA--

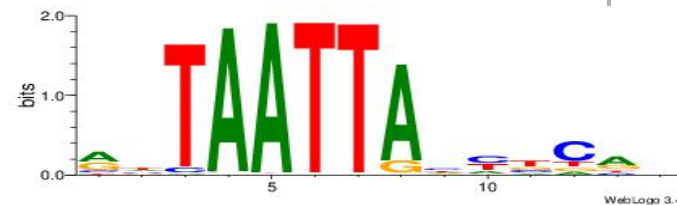
Original motif

Reverse complement motif

Consensus sequence: BHGVRDTAATTADY



Consensus sequence: MDTAATTAHMBCHB

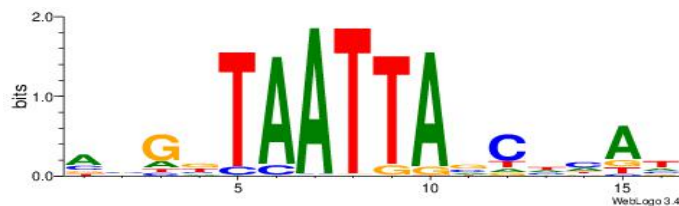


Motif ID: [UP00214](#)
Motif name: Hoxb5
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 7
Similarity score: 0.00733424

Alignment:
HTDHGVTAAATTABCVT
-----TAAGTAT---

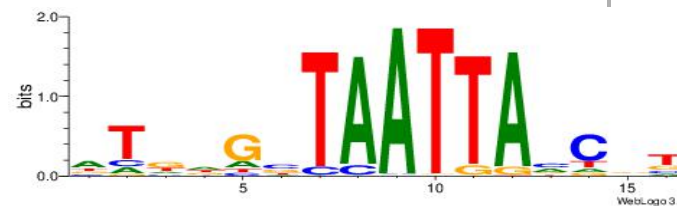
Original motif

Consensus sequence: AVGBTAATTAVCHHAH



Reverse complement motif

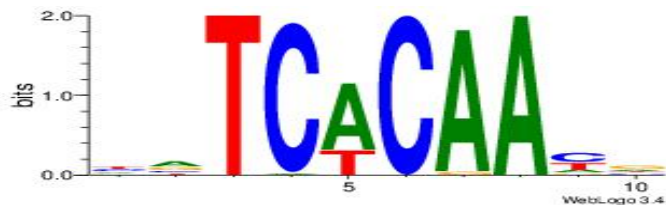
Consensus sequence: HTDHGVTAAATTABCVT



Dataset #: 4 **Motif ID: 94** **Motif name: yrTCWCAAyr**

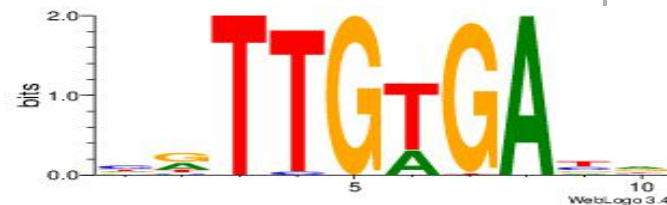
Original motif

Consensus sequence: HVTCAAAAYD



Reverse complement motif

Consensus sequence: HKTTGTGABH



Best Matches for Motif ID 94 (Highest to Lowest)

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:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.00180568

Alignment:

BBD CMATTGTSTBRB

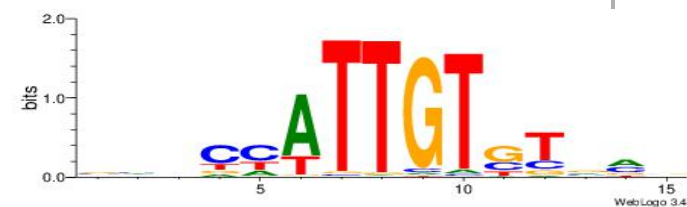
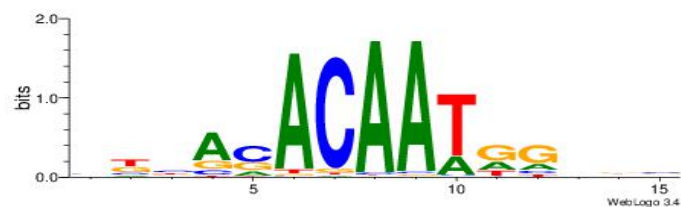
----HKTTGTGABH--

Original motif

Consensus sequence: BKBASACAATRGHBB

Reverse complement motif

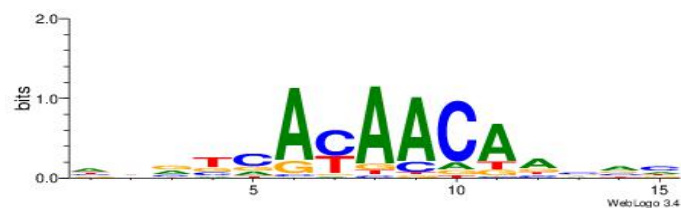
Consensus sequence: BBD CMATTGTSTBRB



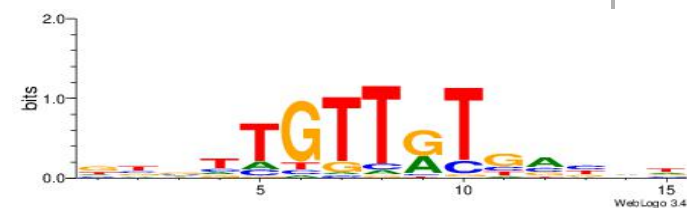
Motif ID: [UP00041](#)
 Motif name: Foxj1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.00349348

Alignment:
 HBVBCAYAACAABVH
 -HVTCAAYD----

Original motif
 Consensus sequence: HBVBCAYAACAABVH



Reverse complement motif
 Consensus sequence: DBBTTGTTKTGVVH



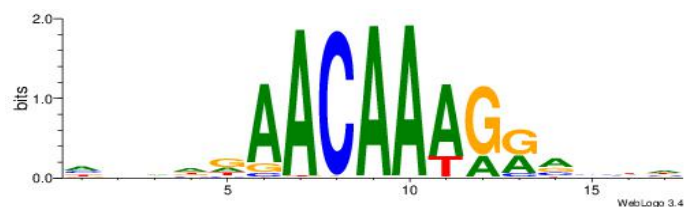
Motif ID: [UP00062](#)

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: 6
 Number of overlap: 10
 Similarity score: 0.00703247

Alignment:
 HHBBMCTTTGTTTHDDBH
 -----HKTTGTGABH--

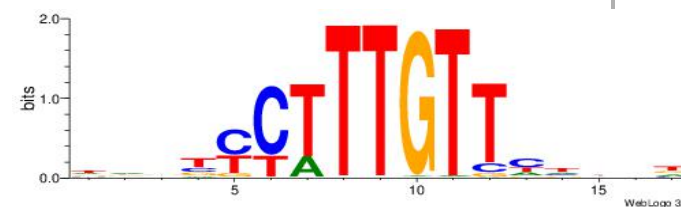
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTTHDDBH



Motif ID: [UP00069](#)
 Motif name: Sox1_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: 10

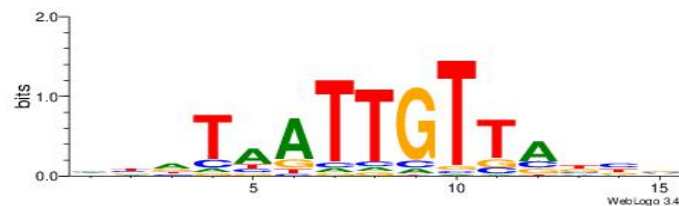
Similarity score: 0.00766951

Alignment:

HBDTAATTGTTABBV
----HKTTGTGABH-

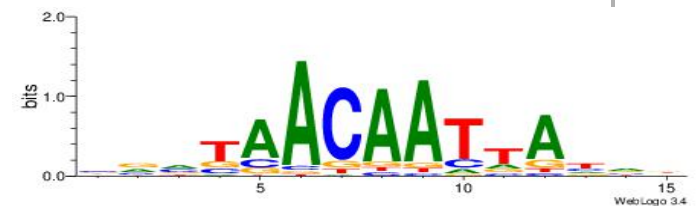
Original motif

Consensus sequence: HBDTAATTGTTABBV



Reverse complement motif

Consensus sequence: VBVTAACAATTADVD



Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.00853696

Alignment:

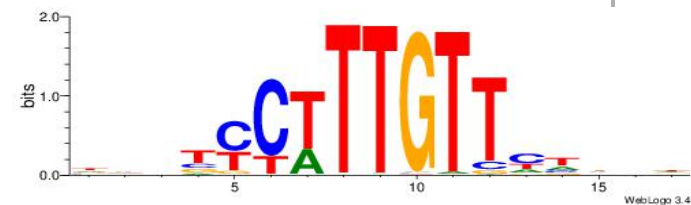
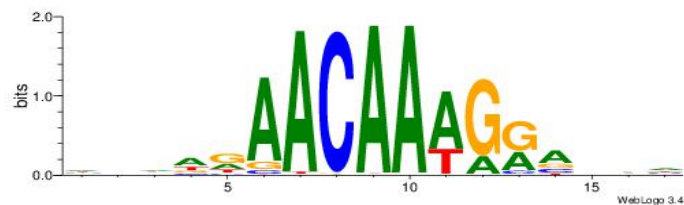
HHBTMCTTTGTTMDDVH
-----HKTTGTGABH--

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

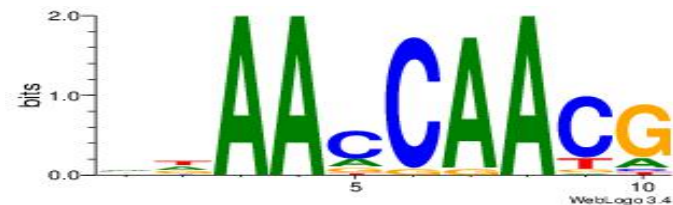
Consensus sequence: HHBTMCTTTGTTMDDVH



Dataset #: 4 **Motif ID: 96** **Motif name: mdAAcCAACG**

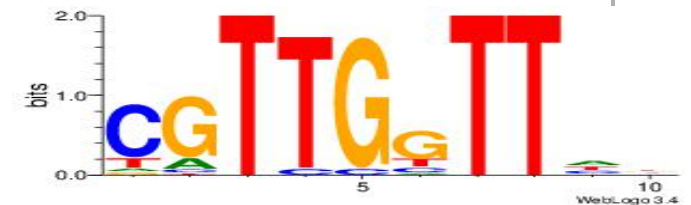
Original motif

Consensus sequence: VDAACCAACG



Reverse complement motif

Consensus sequence: CGTTGGTTDB



Best Matches for Motif ID 96 (Highest to Lowest)

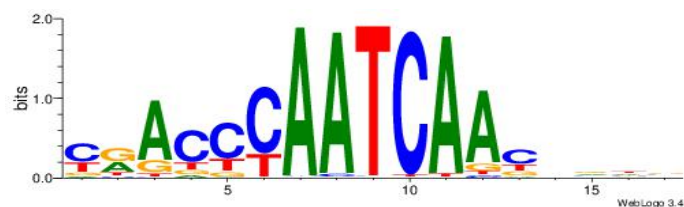
Motif ID:	UP00227
Motif name:	Duxl
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.00355394

Alignment:

VHVVGTTGATTGGGTMK
---CGTTGGTTDB----

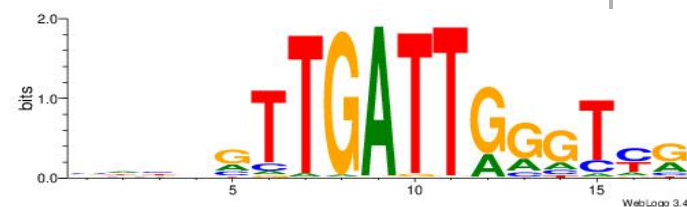
Original motif

Consensus sequence: YRACCCAATCAACVVHV



Reverse complement motif

Consensus sequence: VHVVGTTGATTGGGTMK



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:	3
Number of overlap:	10
Similarity score:	0.00855132

Alignment:

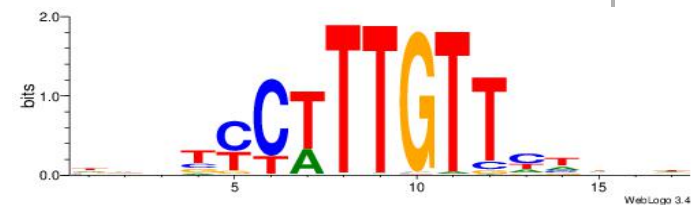
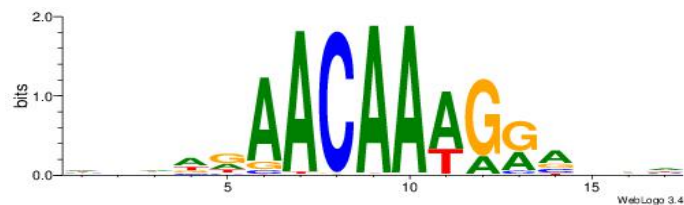
HBDDRAACAAAGRABHH
--VDAACCAACG-----

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH

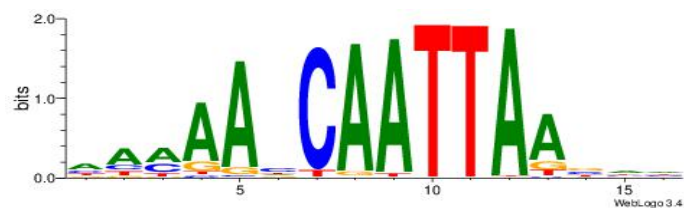


Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0107325

Alignment:
 HAMAAHCAATTAABHH
 -VDAACCAACG-----

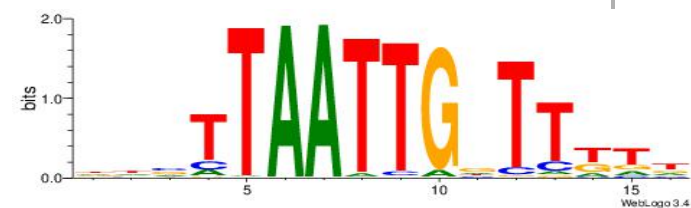
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTYTH



Motif ID: [UP00062](#)

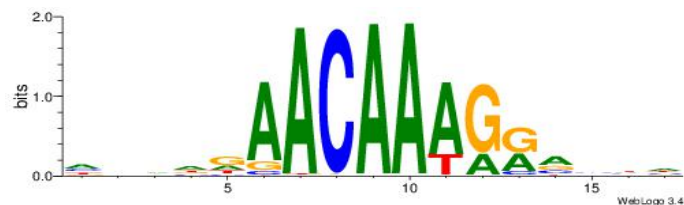
Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 10
 Similarity score: 0.0110249

Alignment:

HBDDDAACAAAGRVBHH
 --VDAACCAACG-----

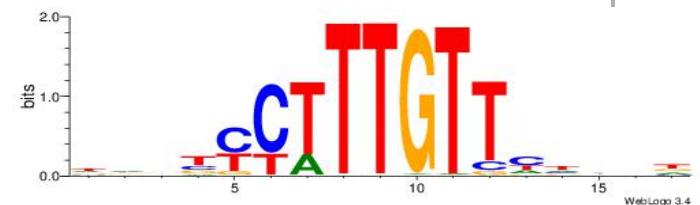
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID: [UP00037](#)
 Motif name: Zfp105_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: 10

Similarity score: 0.0135248

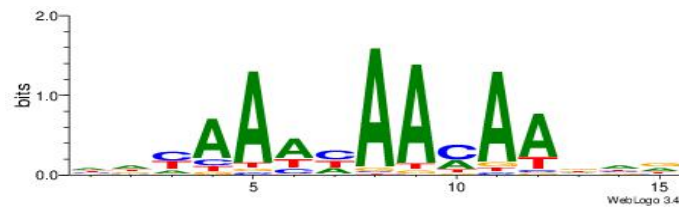
Alignment:

HHHTTRTTDTTTKDH

----CGTTGGTTDB--

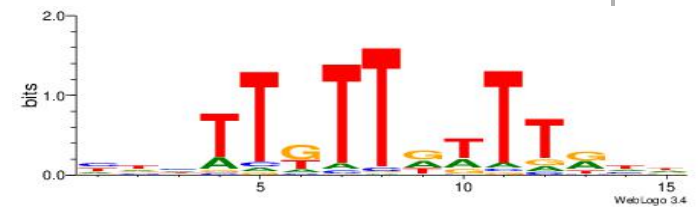
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



Results created by MOTIFSIM on 11-19-2016 22:23:05

Runtime: 867.303 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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