



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters

Number of files:	5
Number of top significant motifs:	10
Number of best matches:	10
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
MEME-ChIP_DM05.txt	4	1
MEME_DM05.txt	46	2
PScanChIP_DM05.txt	16	3
RSAT_peak-motifs_DM05.txt	17	4
W-ChIPMotifs_DM05.txt	11	5

RESULTS

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

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

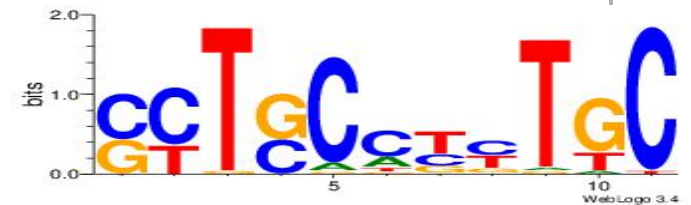
Original motif

Consensus sequence: GCARRGGSAGS



Reverse complement motif

Consensus sequence: SCTSCCKMTGC



Best Matches for Motif ID 2 (Highest to Lowest)

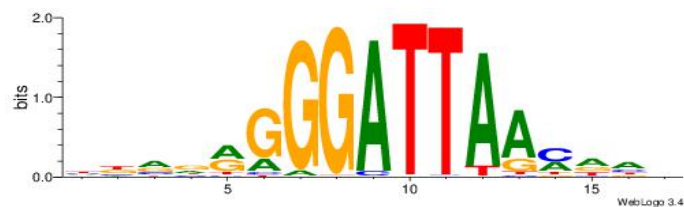
Motif ID:	UP00153
Motif name:	Pitx1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0454693

Alignment:

```
HHDRTTAATCCCKHBVH
-----SCTSCCKMTGC
```

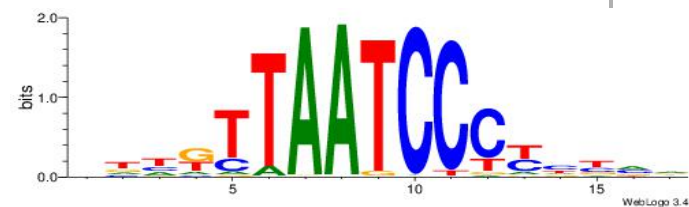
Original motif

Consensus sequence: HBVDRGGGATTAAMDHH



Reverse complement motif

Consensus sequence: HHDRTTAATCCCKHBVH



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: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0458219

Alignment:

BDAWGVGGAAGTDH

GCARRGGSAGS---

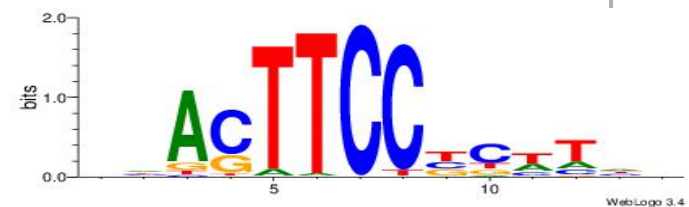
Original motif

Consensus sequence: BDAWGVGGAAGTDH



Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV



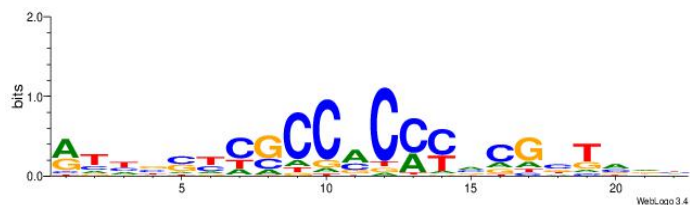
Motif ID: [UP00539](#)
Motif name: Gli2_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0463674

Alignment:

RTHBSYCGCCMCMYVCGBTVDH
-----SCTSCCKMTGC-----

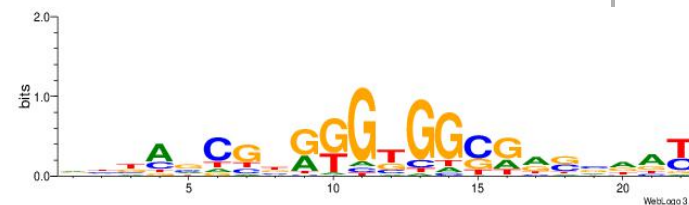
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



Motif ID: [UP00400](#)
Motif name: Zif268
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward

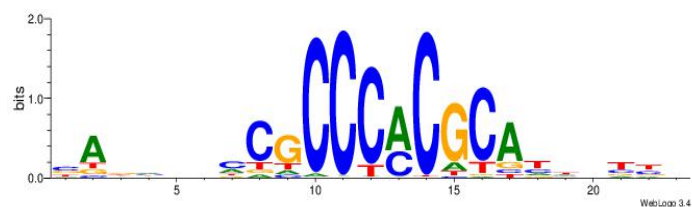
Position number: 6
Number of overlap: 11
Similarity score: 0.0465857

Alignment:

BADHBDHCGCCCMCGCAHHDBBV
-----SCTSCCKMTGC-----

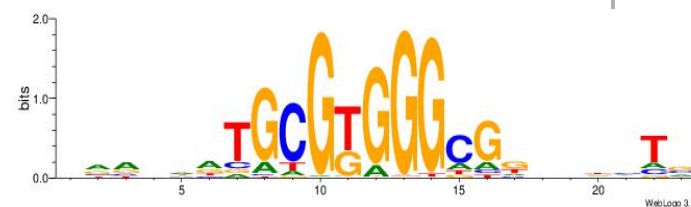
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB



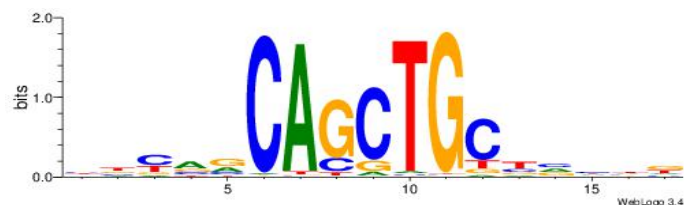
Motif ID: [UP00099](#)
Motif name: Ascl2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0473355

Alignment:

BBYVVCAGCTGCBVHHD
-SCTSCCKMTGC-----

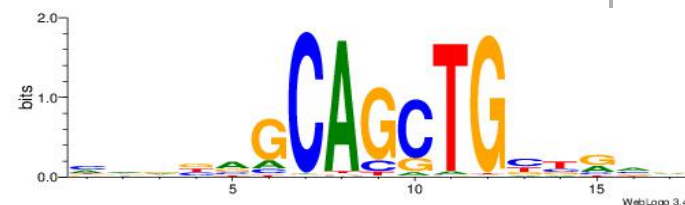
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGACGCTGVBKVB



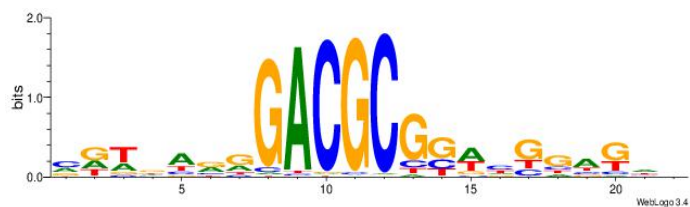
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 11
 Number of overlap: 11
 Similarity score: 0.0487126

Alignment:

```
VHYTCCDWCCGCGTCMMTHWHV
-SCTSCCKMTGC-----
```

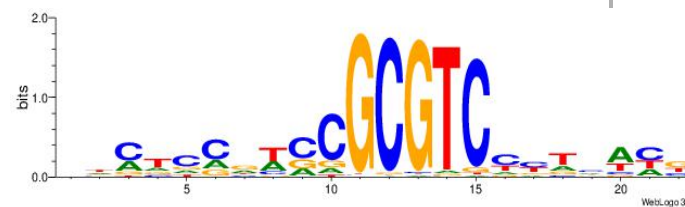
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



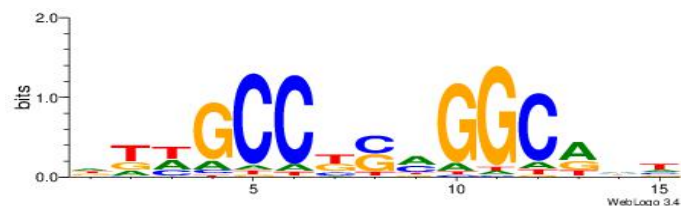
Motif ID: [UP00010](#)
Motif name: Tcfap2b_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0497623

Alignment:

HHKGCCYSRGGCWAD
----GCARRGGSAGS

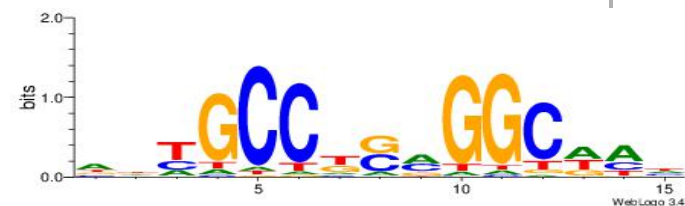
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward

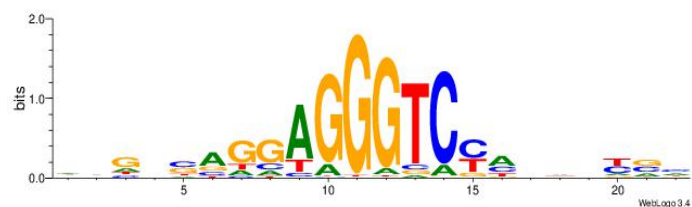
Position number: 1
Number of overlap: 11
Similarity score: 0.0507547

Alignment:

DVMHHDHKGACCCTCCTSVCBH
-----SCTSCCKMTGC

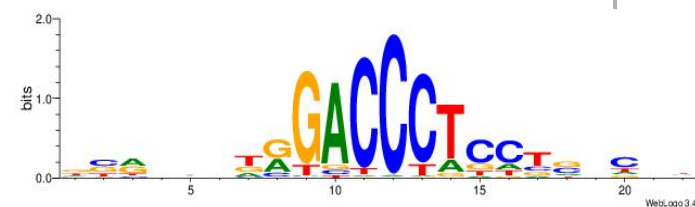
Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif

Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



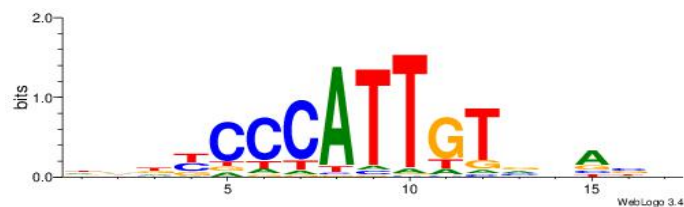
Motif ID: [UP00055](#)
Motif name: Hbp1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0508648

Alignment:

HBTHVACAATGGGMDHD
-----GCARRGGSAGS-

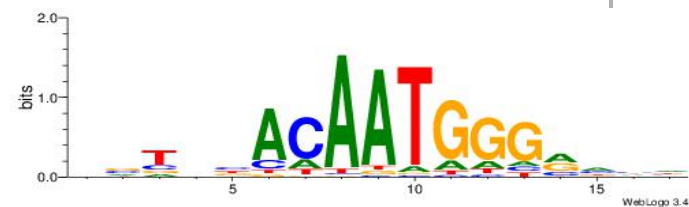
Original motif

Consensus sequence: DDDYCCATTGTVHABH



Reverse complement motif

Consensus sequence: HBTHVACAATGGGMDHD



Motif ID: [UP00005](#)
Motif name: Tcfap2a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0512938

Alignment:

WDHSCCYSRGGSRAD

----GCARRGGSAGS

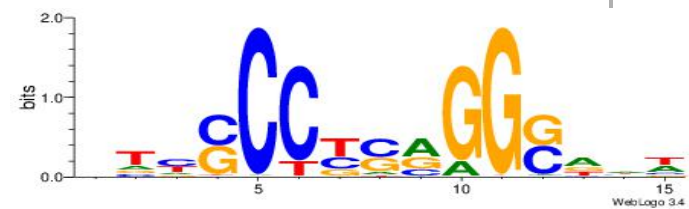
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



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

Original motif

Consensus sequence: GGAAM



Reverse complement motif

Consensus sequence: YTTCC



Best Matches for Motif ID 4 (Highest to Lowest)

Motif ID:	UP00424
Motif name:	Gm4881
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:	5
Similarity score:	0

Alignment:

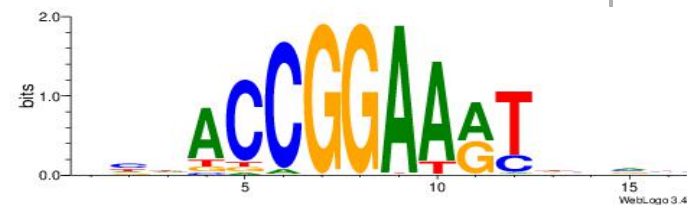
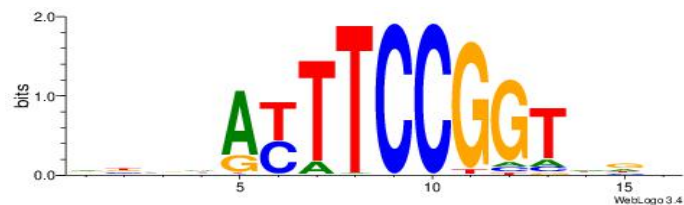
```
VBBHAYTTCCGGTDDD
-----YTTCC-----
```

Original motif

Consensus sequence: VBBHAYTTCCGGTDDD

Reverse complement motif

Consensus sequence: DHDACCGGAAMTHBVB

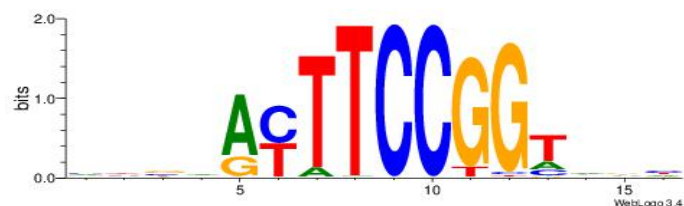


Motif ID: [UP00416](#)
 Motif name: Fli1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.00163794

Alignment:
 VBBVAYTTCCGGTDDH
 -----YTTCC-----

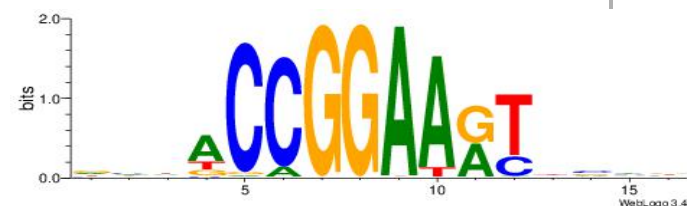
Original motif

Consensus sequence: VBBVAYTTCCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAATBBVV



Motif ID: [UP00422](#)

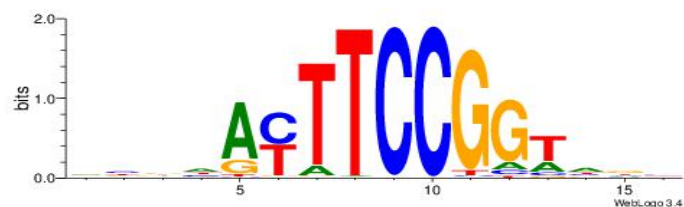
Motif name: Etv3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 5
 Similarity score: 0.00234412

Alignment:

VBBHAYTTCCGGTHDH
 -----YTTCC-----

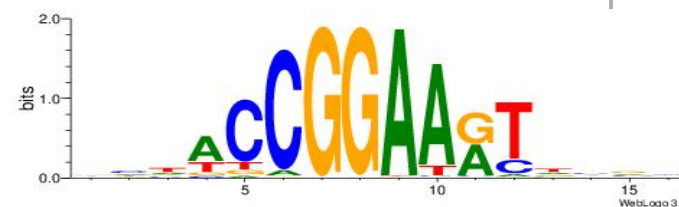
Original motif

Consensus sequence: VBBHAYTTCCGGTHDH



Reverse complement motif

Consensus sequence: DHHACCGGA AKTHBBB



Motif ID: [UP00411](#)
 Motif name: Erg
 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: 5

Similarity score: 0.00589761

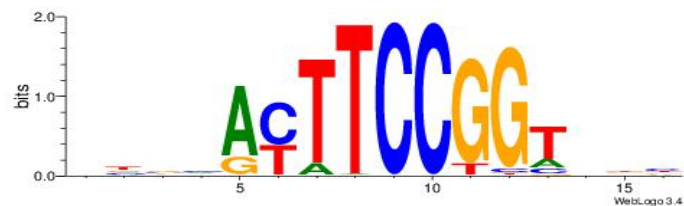
Alignment:

VBBVAYTTCCGGTDDB

-----YTTCC-----

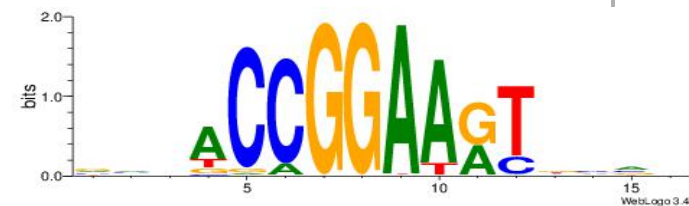
Original motif

Consensus sequence: VBBVAYTTCCGGTDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



Motif ID: [UP00418](#)

Motif name: Etv6

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Backward

Position number: 7

Number of overlap: 5

Similarity score: 0.00691345

Alignment:

DVHBTACTTCCGGHTHB

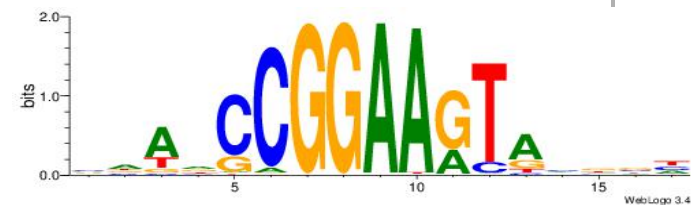
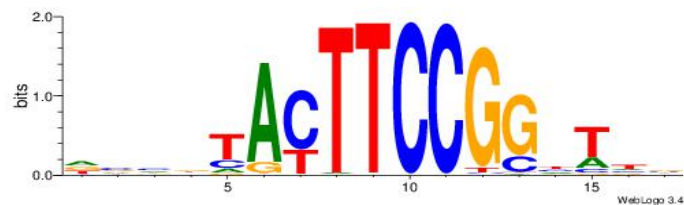
-----YTTCC-----

Original motif

Consensus sequence: DVHBTACTTCCGGHTHB

Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



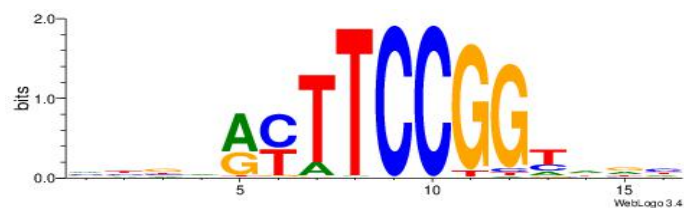
Motif ID: [UP00415](#)
 Motif name: Elk4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.00722176

Alignment:

VBBHRYTTCCGGTDDH
 -----YTTCC-----

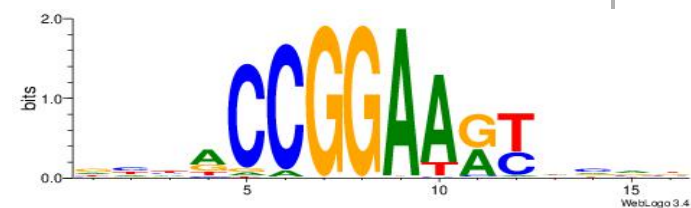
Original motif

Consensus sequence: VBBHRYTTCCGGTDDH



Reverse complement motif

Consensus sequence: DHDACCGGAACKHBVB



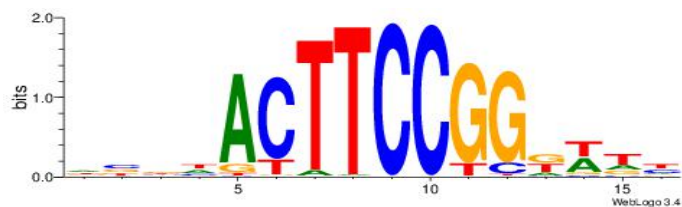
Motif ID: [UP00413](#)
 Motif name: Elf4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 5
 Similarity score: 0.0153114

Alignment:

DBBHACTTCCGGKWTH
 -----YTTCC-----

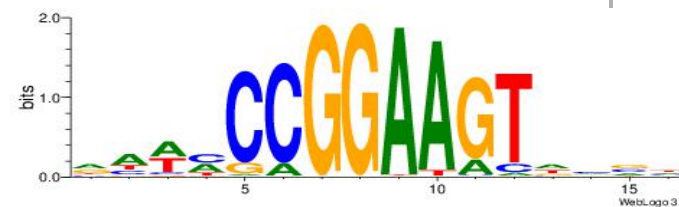
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



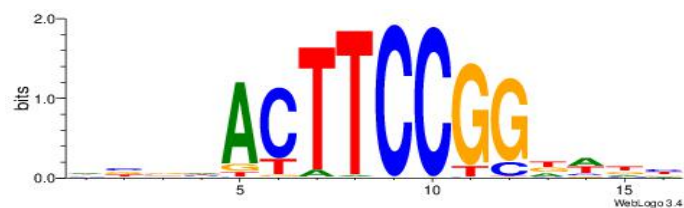
Motif ID: [UP00404](#)
 Motif name: Elf2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7

Number of overlap: 5
Similarity score: 0.0153458

Alignment:
DBBHACTTCCGGDWDB
-----YTTCC-----

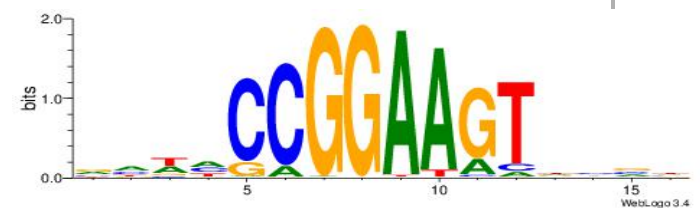
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



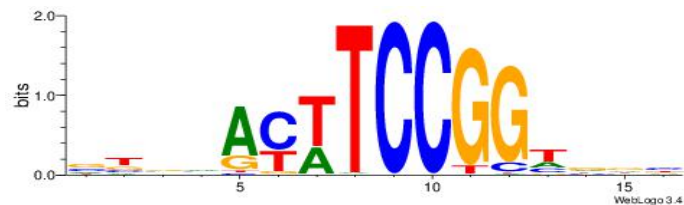
Motif ID: [UP00417](#)
Motif name: Etv4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 5
Similarity score: 0.0219684

Alignment:
VBBHAYWTCCGGTDDB
-----YTTCC-----

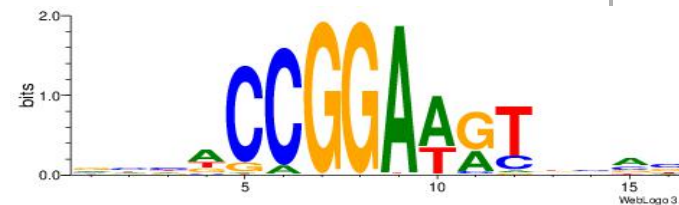
Original motif

Reverse complement motif

Consensus sequence: VBBHAYWTCCGGTDDDB



Consensus sequence: BHHACCGGAWKTHBVV



Motif ID: [UP00419](#)
Motif name: Spic
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: 0.0224017

Alignment:

DWACTTCCRCTTTB

---YTTCC-----

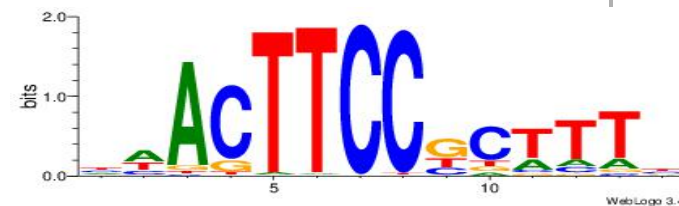
Original motif

Consensus sequence: VAAAGMGGAAGTWD



Reverse complement motif

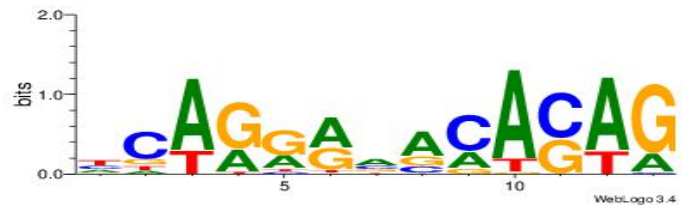
Consensus sequence: DWACTTCCRCTTTB



Dataset #: 2 **Motif ID: 7** **Motif name: Motif 7**

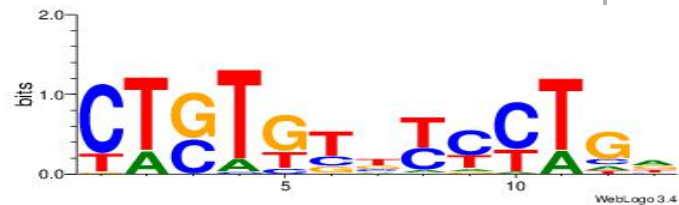
Original motif

Consensus sequence: HCAGRRVACASAG



Reverse complement motif

Consensus sequence: CTSTGTBKMCTGH



Best Matches for Motif ID 7 (Highest to Lowest)

Motif ID:	UP00028
Motif name:	Tcfap2e_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0445121

Alignment:

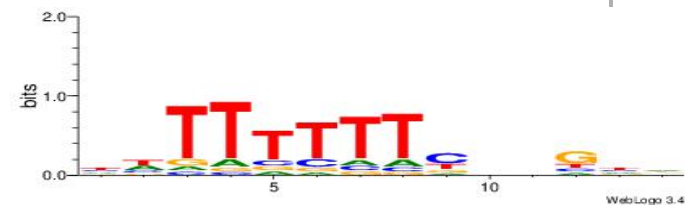
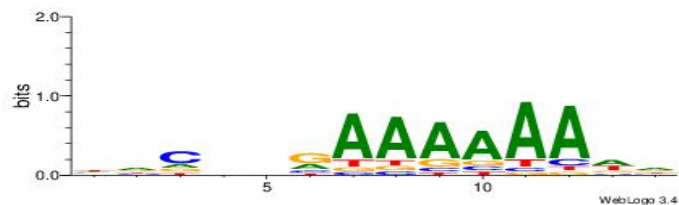
HDCDBRAAAAAADD
-HCAGRRVACASAG

Original motif

Consensus sequence: HDCDBRAAAAAADD

Reverse complement motif

Consensus sequence: DDTTTTTTMBDGDH



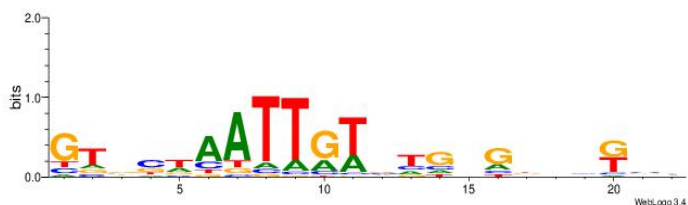
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10
 Number of overlap: 13
 Similarity score: 0.0448793

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 -----CTSTGTBKMCTGH

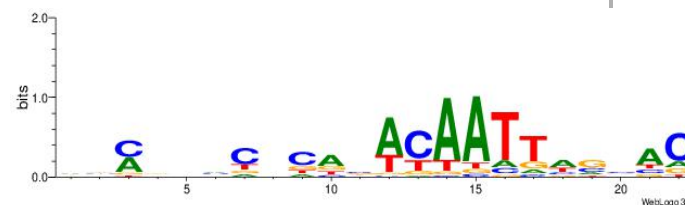
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Motif ID: [UP00041](#)

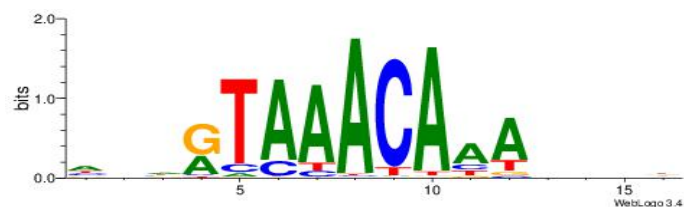
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0.0454552

Alignment:

DDDHTTTGTTTAMHDDH
 ---CTSTGTBKMCTGH

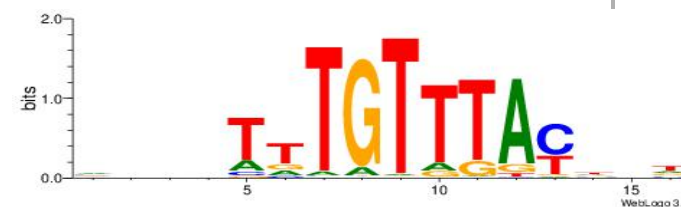
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



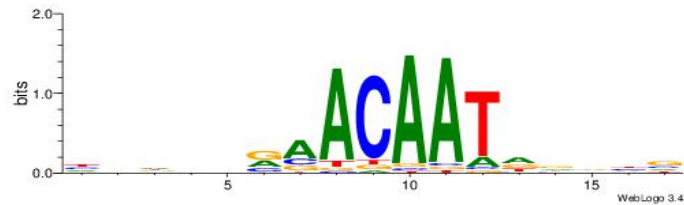
Motif ID: [UP00016](#)
 Motif name: Sry_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0.0481412

Alignment:

HHDHDRAACAATDDVHV
HCAGRRVACASAG----

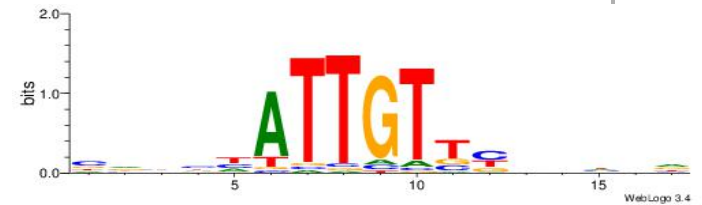
Original motif

Consensus sequence: HHDHDRAACAATDDVHV



Reverse complement motif

Consensus sequence: VHVHDATTGTTMHDDDH



Motif ID:	UP00077
Motif name:	Srf_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0545707

Alignment:

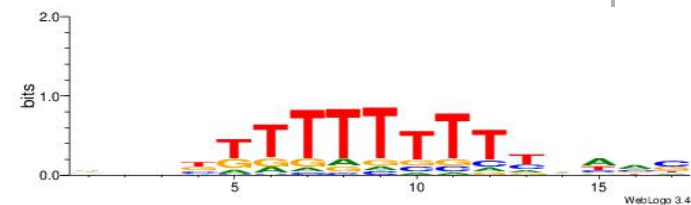
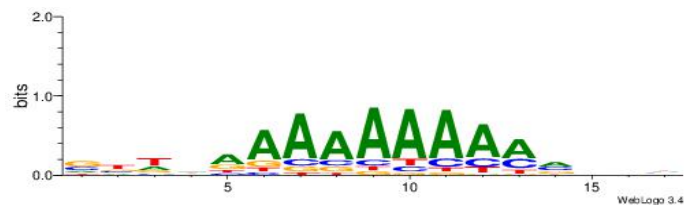
VBDDAAAAAAAAAMVBHH
-HCAGRRVACASAG---

Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH

Reverse complement motif

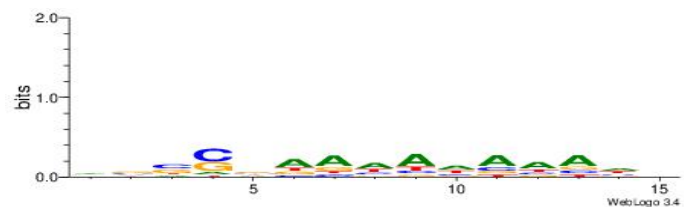
Consensus sequence: HHVBYTTTTTTTTDDV



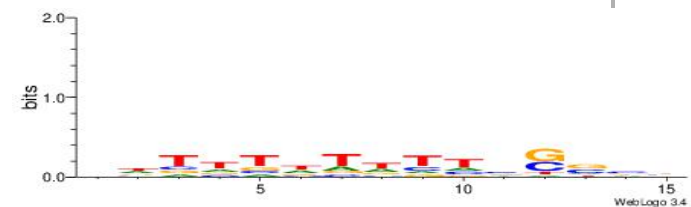
Motif ID: [UP00058](#)
 Motif name: Tcf3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0553073

Alignment:
 DVBSBDAHAHAHAHH
 -HCAGRRVACASAG-

Original motif
 Consensus sequence: DVBSBDAHAHAHAHH



Reverse complement motif
 Consensus sequence: HHTHTHTHTDBSBVD



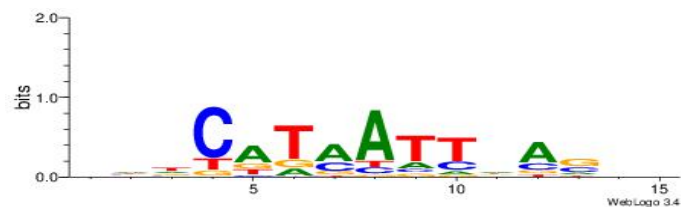
Motif ID: [UP00091](#)

Motif name:	Sox5_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0562585

Alignment:
DHDCATMATTDASDD
--HCAGRRVACASAG

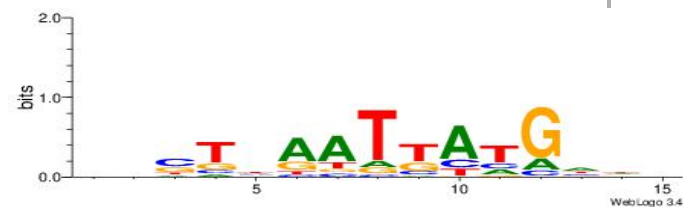
Original motif

Consensus sequence: DHDCATMATTDASDD



Reverse complement motif

Consensus sequence: DHSTDAATYATGDHD



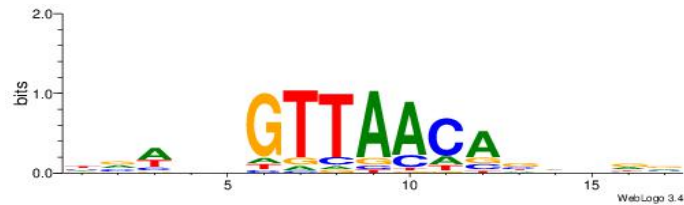
Motif ID:	UP00012
Motif name:	Bbx_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0564984

Alignment:

VHVHBTGTTAACVHWVH
--CTSTGTBKMCTGH--

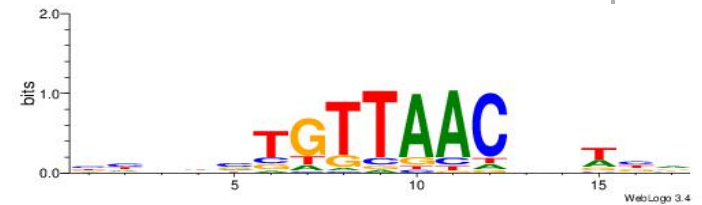
Original motif

Consensus sequence: HVWHBGTTAACABHBDV



Reverse complement motif

Consensus sequence: VHVHBTGTTAACVHWVH



Motif ID:	UP00073
Motif name:	Foxa2_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0571073

Alignment:

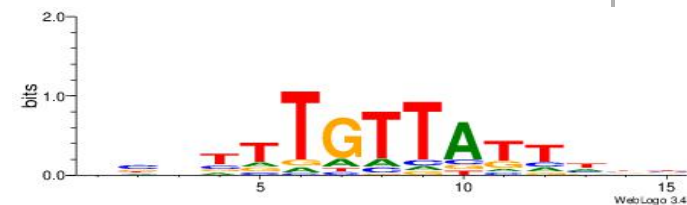
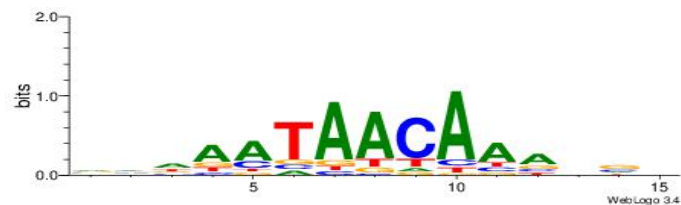
VVDAATAACAAAVVB
HCAGRRVACASAG--

Original motif

Consensus sequence: VVDAATAACAAAVVB

Reverse complement motif

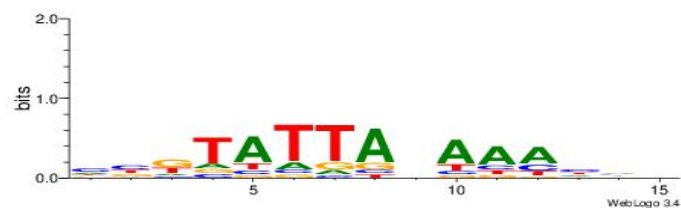
Consensus sequence: BVVTTTGTATTDBB



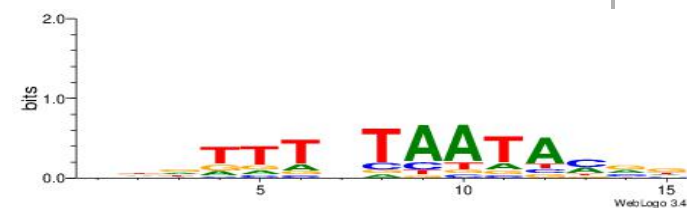
Motif ID: [UP00054](#)
 Motif name: Tcf7_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 13
 Similarity score: 0.0574997

Alignment:
 HHDTTTVTAATAYBD
 CTSTGTBKMCTGH--

Original motif
 Consensus sequence: HBKTATTABAAAHHH



Reverse complement motif
 Consensus sequence: HHDTTTVTAATAYBD



Dataset #: 2 Motif ID: 41 Motif name: Motif 41

Original motif

Consensus sequence: ACTTTGG



Reverse complement motif

Consensus sequence: CCAAAGT



Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID:	UP00066
Motif name:	Hnf4a_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:	7
Similarity score:	0

Alignment:

BBHHAAAGTCCAMTHH

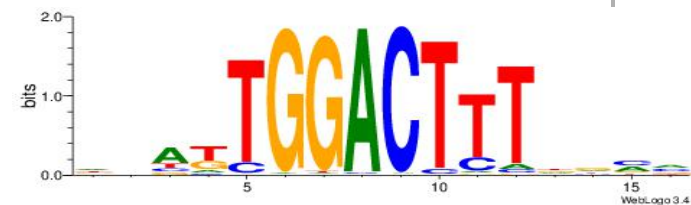
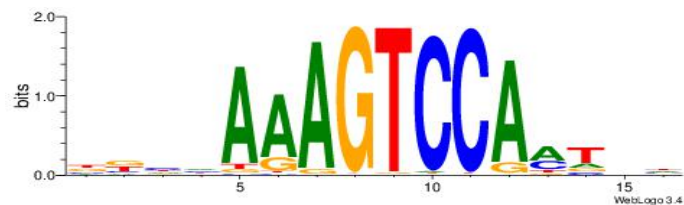
--CCAAAGT-----

Original motif

Consensus sequence: BBHHAAAGTCCAMTHH

Reverse complement motif

Consensus sequence: HHAYTGGACTTTTHDBV

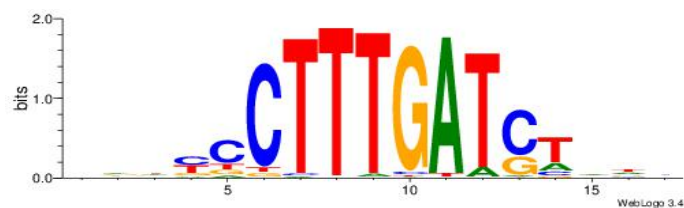


Motif ID: [UP00067](#)
 Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 7
 Similarity score: 0.0128381

Alignment:
 VDDAGATCAAAGGKDDD
 -----CCAAAGT-----

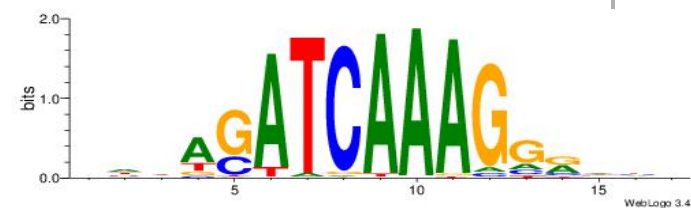
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00079](#)

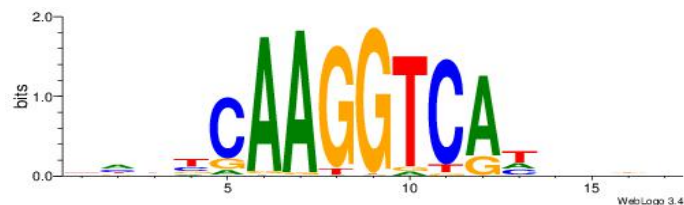
Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 7
 Similarity score: 0.0140846

Alignment:

DHDBCAAGGTCAHVBDH
 ---CCAAAGT-----

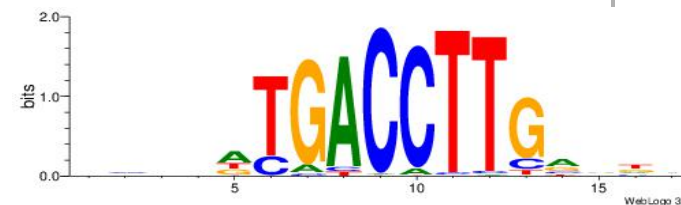
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



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: 5
 Number of overlap: 7

Similarity score: 0.0141156

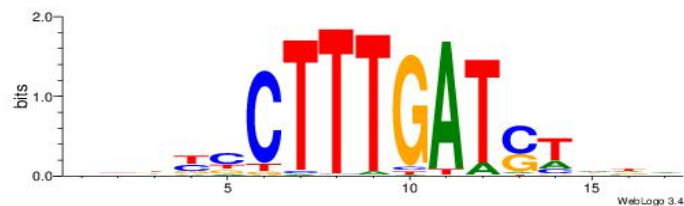
Alignment:

BDDASATCAAAGGMDDD

-----CCAAAGT-----

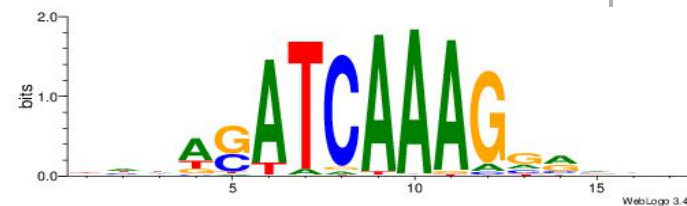
Original motif

Consensus sequence: DDDYCCTTTGATSTDDV



Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



Motif ID: [UP00062](#)
Motif name: Sox4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 7
Similarity score: 0.0159798

Alignment:

HHBBMCTTTGTTHDDBH

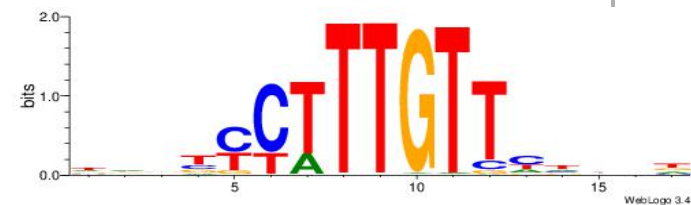
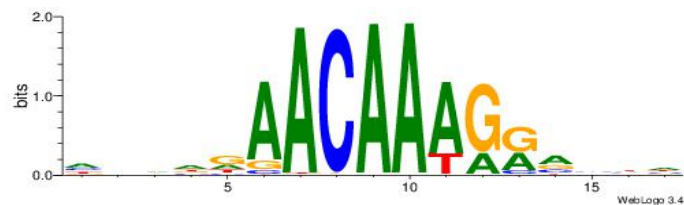
-----ACTTTGG-----

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

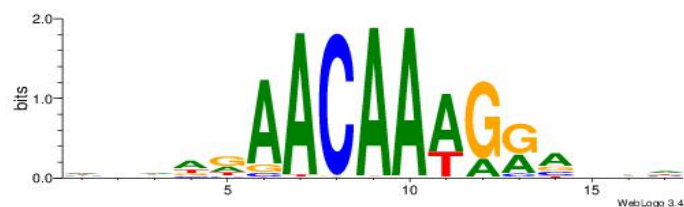
Consensus sequence: HHBBMCTTTGTTHDDBH



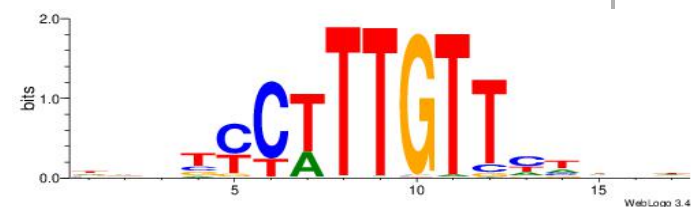
Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.0181605

Alignment:
 HHBTMCTTTGTTMDDVH
 ----ACTTTGG-----

Original motif
 Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif
 Consensus sequence: HHBTMCTTTGTTMDDVH



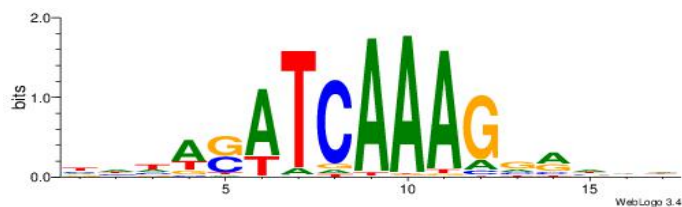
Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 7
 Similarity score: 0.0200761

Alignment:

HHHKVCTTTGATSTHHH
 ----ACTTTGG-----

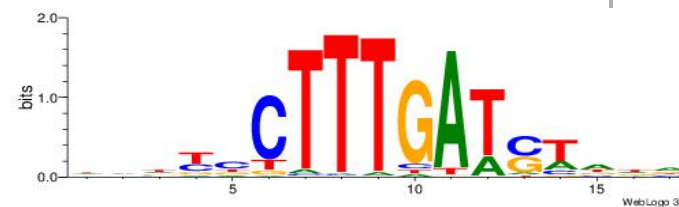
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



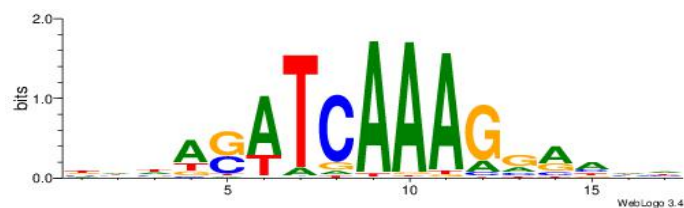
Motif ID: [UP00054](#)
 Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

Number of overlap: 7
Similarity score: 0.0230245

Alignment:
HHHTCCTTTGATSTHHV
-----ACTTTGG-----

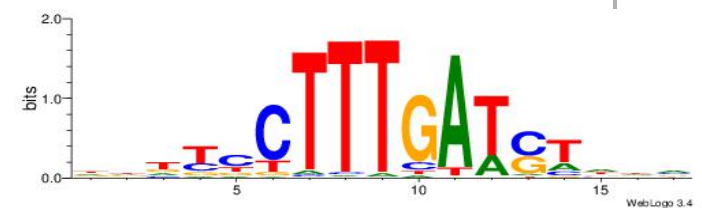
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



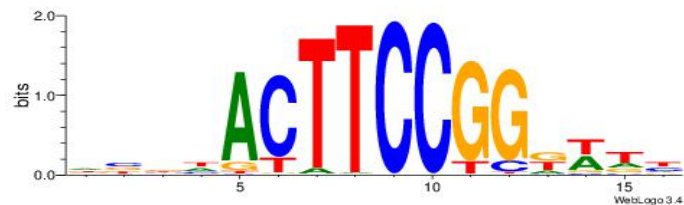
Motif ID: [UP00413](#)
Motif name: Elf4
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 7
Similarity score: 0.0283328

Alignment:
HAWYCCGGAAGTHBBD
-----CCAAAGT-----

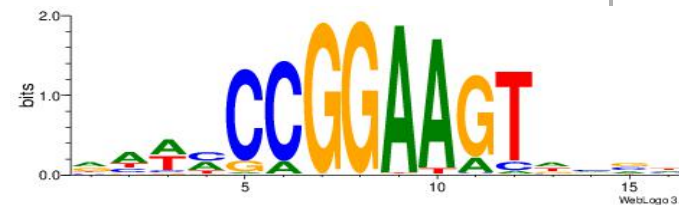
Original motif

Reverse complement motif

Consensus sequence: DBBHACTTCCGGKWITH



Consensus sequence: HAWYCCGGAAGTHBBD



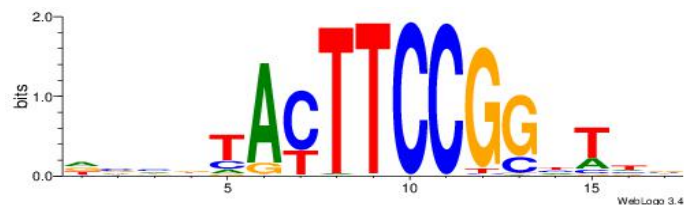
Motif ID: [UP00418](#)
Motif name: Etv6
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 7
Similarity score: 0.0287289

Alignment:

```
BHAHCCGGAAGTABDVD  
-----CCAAAGT-----
```

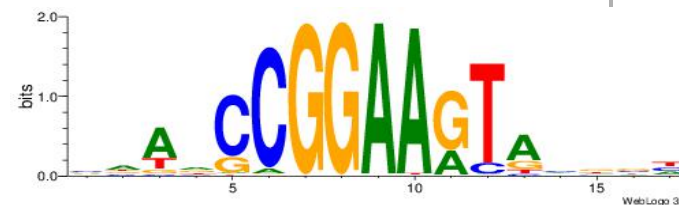
Original motif

Consensus sequence: DVHBTACTTCCGGHTHB



Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD



Dataset #: 3 **Motif ID: 55** **Motif name: ZEB1**

Original motif

Consensus sequence: CACCTD



Reverse complement motif

Consensus sequence: HAGGTG



Best Matches for Motif ID 55 (Highest to Lowest)

Motif ID:	UP00068
Motif name:	Eomes_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	6
Similarity score:	0

Alignment:

VVBVCKACACCTHVBV

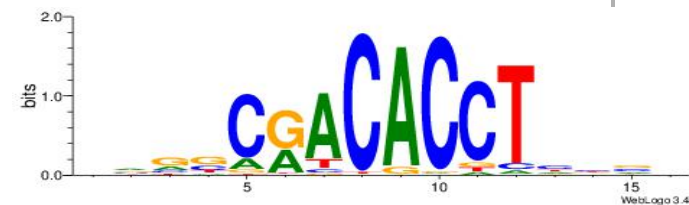
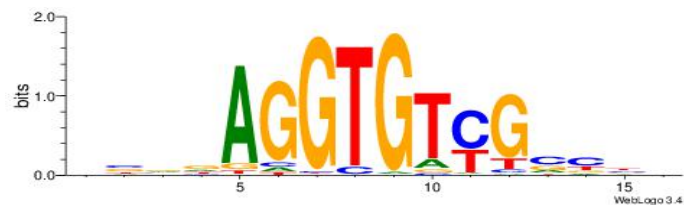
-----CACCTD----

Original motif

Consensus sequence: VBVDAGGTGTYGVBBV

Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV

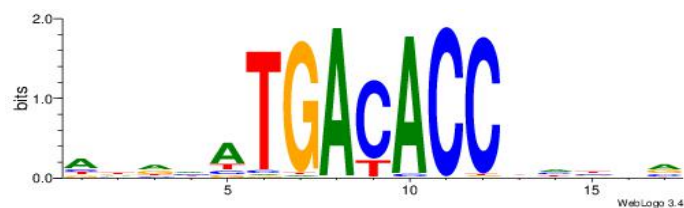


Motif ID: [UP00199](#)
 Motif name: Six4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 6
 Similarity score: 0.00433068

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

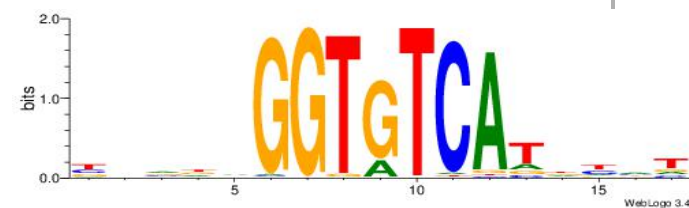
Original motif

Consensus sequence: ADDHATGACACCBHBBV



Reverse complement motif

Consensus sequence: BBVHVGGTGTCTHDDT



Motif ID: [UP00068](#)

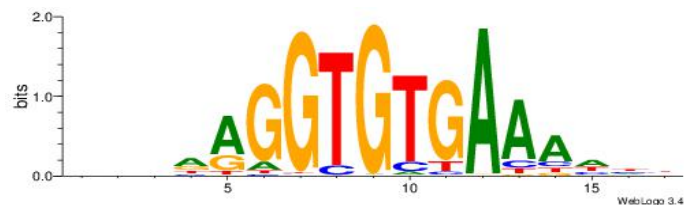
Motif name:	Eomes_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	6
Similarity score:	0.00524081

Alignment:

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

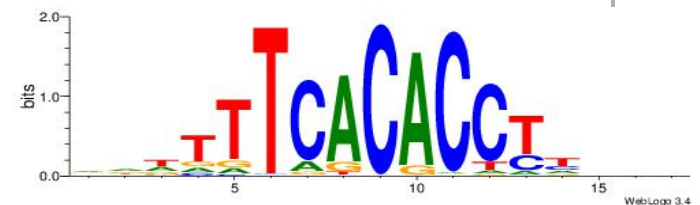
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



Motif ID:	UP00046
Motif name:	Tcfe2a_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	6

Similarity score: 0.00911301

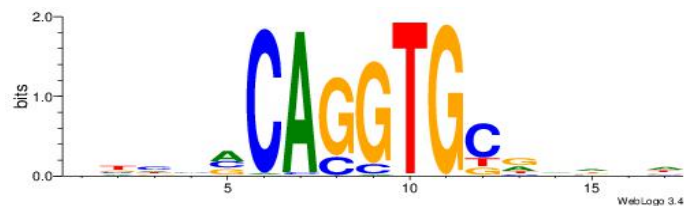
Alignment:

VBHHVCAGGTGCDVDHD

-----HAGGTG-----

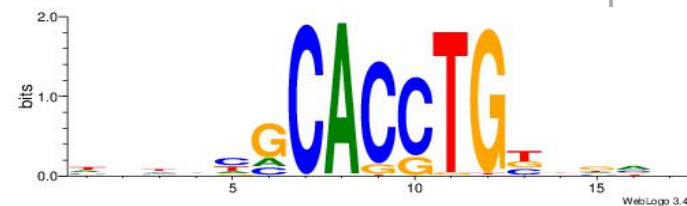
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

BDDRVGACCACCHBDVB

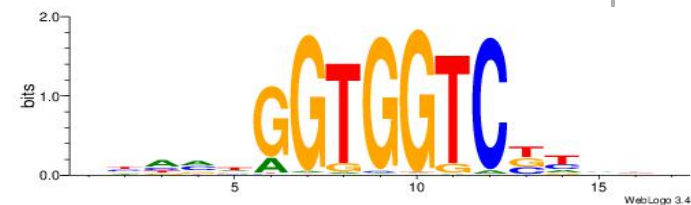
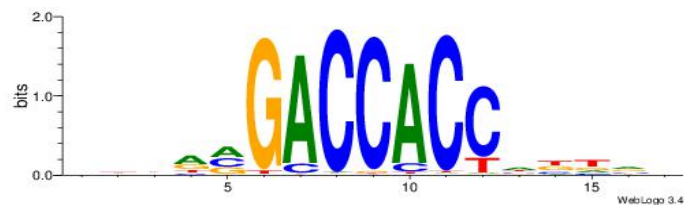
-----CACCTD----

Original motif

Consensus sequence: BDDRVGACCACCHBDVB

Reverse complement motif

Consensus sequence: BBDVHGGTGGTCBKDDDB



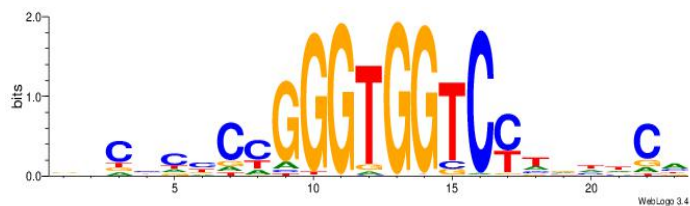
Motif ID: [UP00538](#)
 Motif name: Gli1_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 11
 Number of overlap: 6
 Similarity score: 0.0233928

Alignment:

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

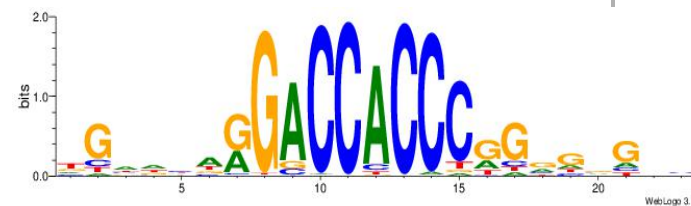
Original motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH



Reverse complement motif

Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



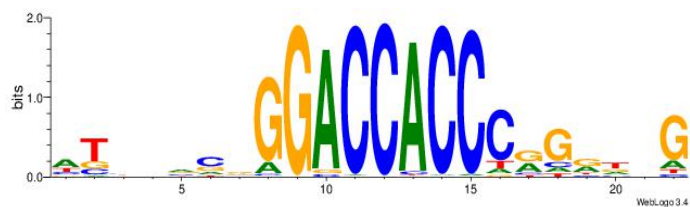
Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0254338

Alignment:

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

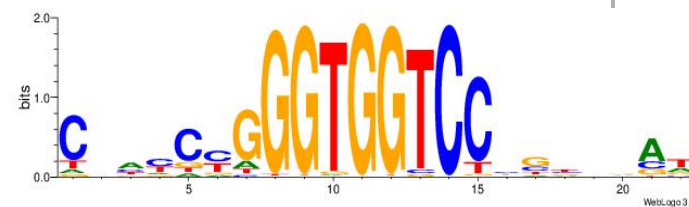
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCCHVBVBAH

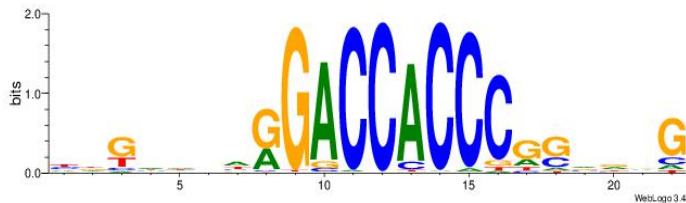


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6

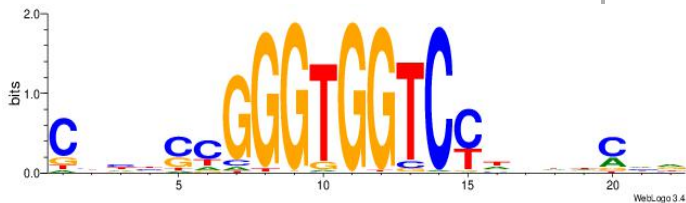
Number of overlap: 6
Similarity score: 0.0290143

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

Original motif
Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif
Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



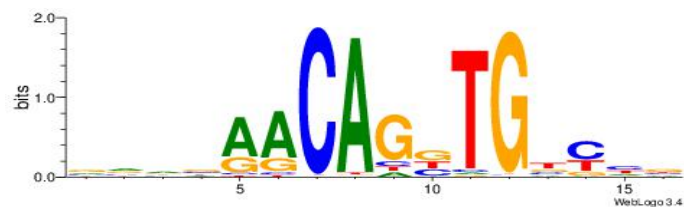
Motif ID: [UP00036](#)
Motif name: Myf6_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 6
Similarity score: 0.0309673

Alignment:
BDKVCABCTGTTBDBV
----CACCTD-----

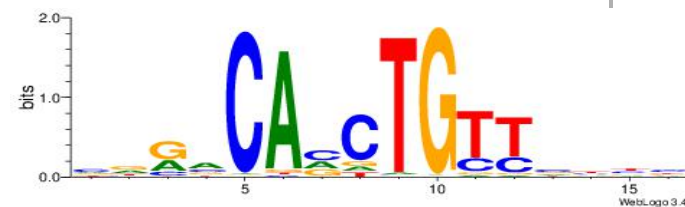
Original motif

Reverse complement motif

Consensus sequence: VVDBAACAGBTGBYHB



Consensus sequence: BDKVCABCTGTTBDBV



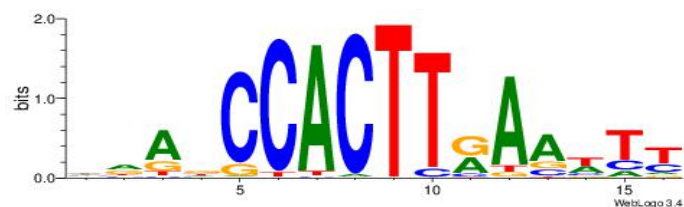
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.031502

Alignment:

HDADCCACTTTRAAWTT
 -----CACCTD-----

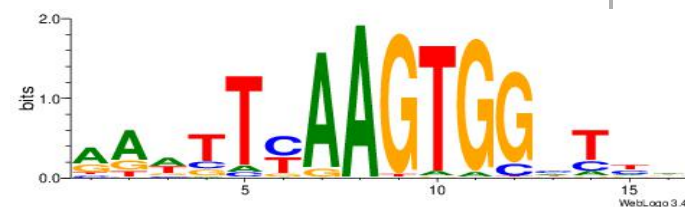
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Dataset #: 3 **Motif ID: 61** **Motif name: NR4A2**

Original motif

Consensus sequence: AAGGTCAC



Reverse complement motif

Consensus sequence: GTGACCTT



Best Matches for Motif ID 61 (Highest to Lowest)

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

Alignment:

HHVGTGACCTTTDVDD

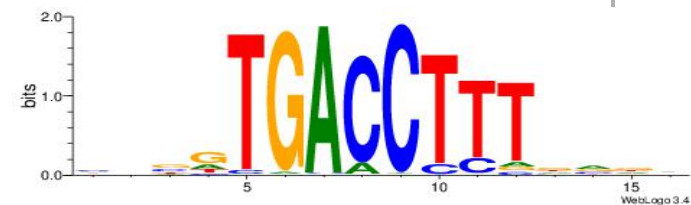
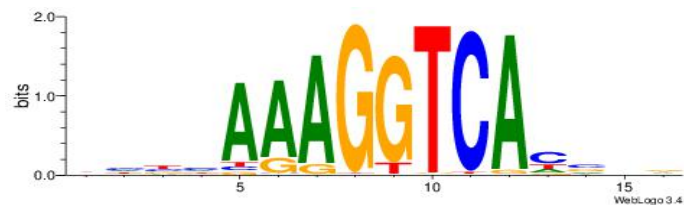
---GTGACCTT-----

Original motif

Consensus sequence: DHBHAAAGGTCACVHD

Reverse complement motif

Consensus sequence: HHVGTGACCTTTDVDD

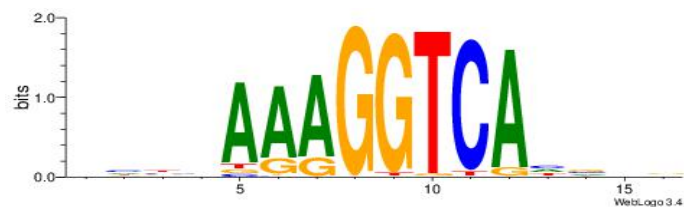


Motif ID: [UP00009](#)
 Motif name: Nr2f2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0074527

Alignment:
 BHVDTGACCTTTDVDD
 ---GTGACCTT-----

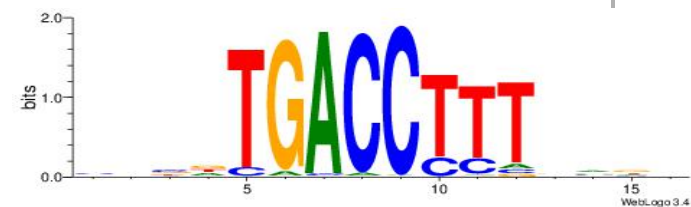
Original motif

Consensus sequence: DHBHAAAGGTCAHVHB



Reverse complement motif

Consensus sequence: BHVDTGACCTTTDVDD



Motif ID: [UP00079](#)

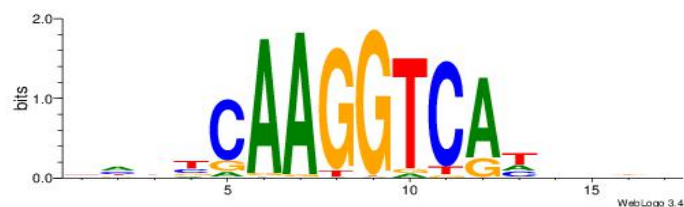
Motif name: Esrra_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.01542

Alignment:

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

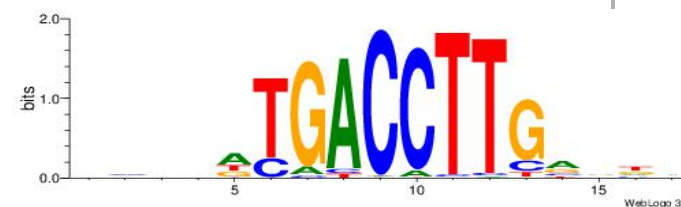
Original motif

Consensus sequence: DHDBCAAGGTCAHVBDH



Reverse complement motif

Consensus sequence: HHBVHTGACCTTGVDHD



Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8

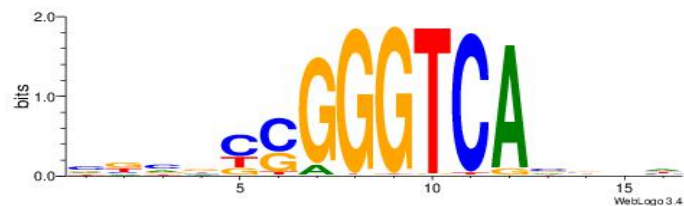
Similarity score: 0.0395644

Alignment:

VBVBCSGGGTCAVBBH
-----AAGGTCAC---

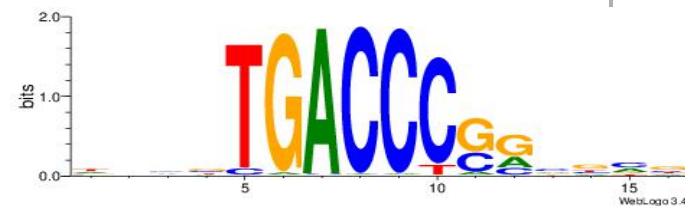
Original motif

Consensus sequence: VBVBCSGGGTCAVBBH



Reverse complement motif

Consensus sequence: HVBVTGACCCSGBVBV



Motif ID: [UP00082](#)
Motif name: Zfp187_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0407874

Alignment:

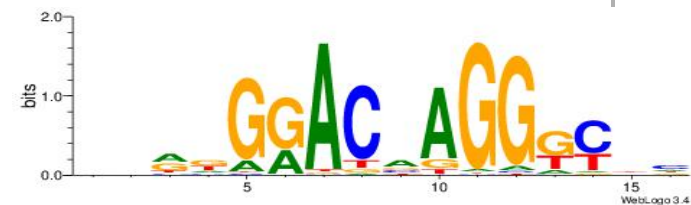
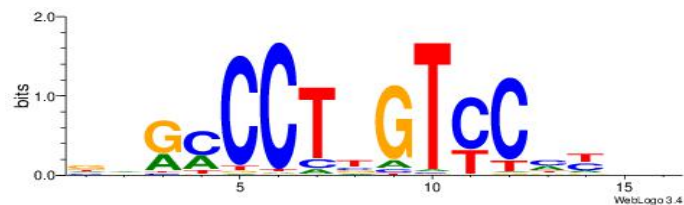
DDGMCCTBGTCCHYHV
GTGACCTT-----

Original motif

Consensus sequence: DDGMCCTBGTCCHYHV

Reverse complement motif

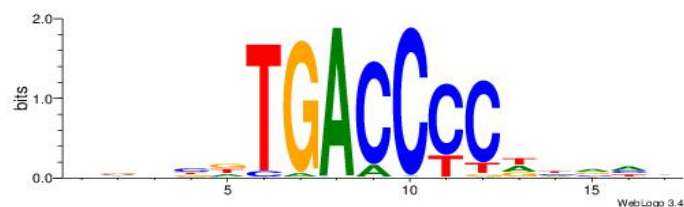
Consensus sequence: VHMDGGACVAGGRCDH



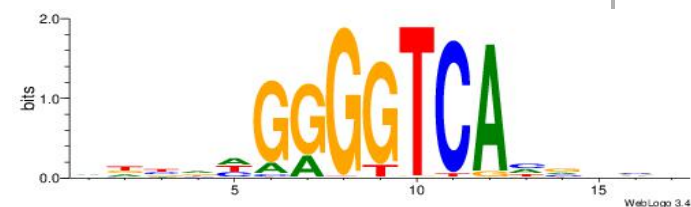
Motif ID: [UP00053](#)
 Motif name: Rxra_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0422933

Alignment:
 DBHBDTGACCCCDHVHB
 ----GTGACCTT-----

Original motif
 Consensus sequence: DBHBDTGACCCCDHVHB



Reverse complement motif
 Consensus sequence: VHBHDGGGGTCAHBHBD



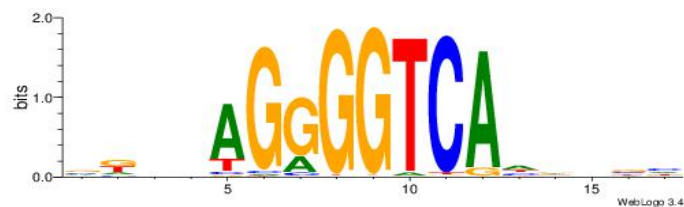
Motif ID: [UP00079](#)
 Motif name: Esrra_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0447444

Alignment:

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

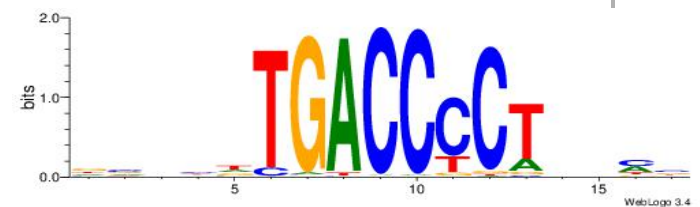
Original motif

Consensus sequence: VKBBAGGGGTCAHDBBH



Reverse complement motif

Consensus sequence: DBBHHTGACCCCTBBYV



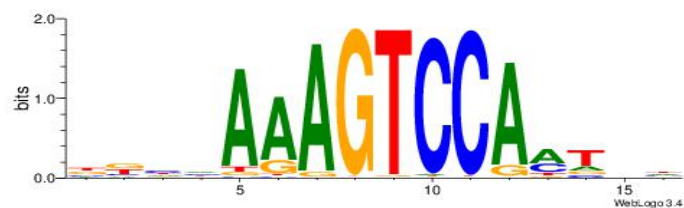
Motif ID: [UP00066](#)
 Motif name: Hnf4a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6

Number of overlap: 8
Similarity score: 0.0481418

Alignment:
BBHHAAAGTCCAMTHH
-----AAGGTCAC---

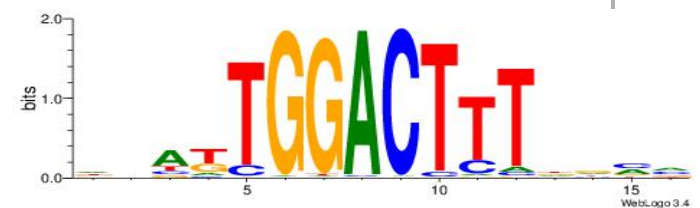
Original motif

Consensus sequence: BBHHAAAGTCCAMTHH



Reverse complement motif

Consensus sequence: HHAYTGGACTTTTHDBV



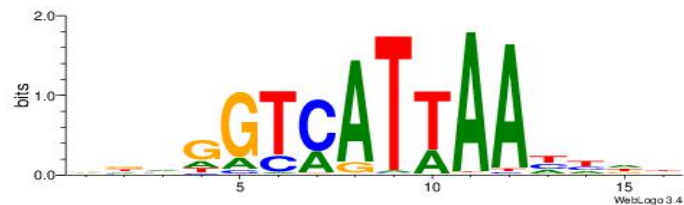
Motif ID: [UP00197](#)
Motif name: Hoxc9
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0497679

Alignment:
VDHHTTAATGACCBHV
-----GTGACCTT-

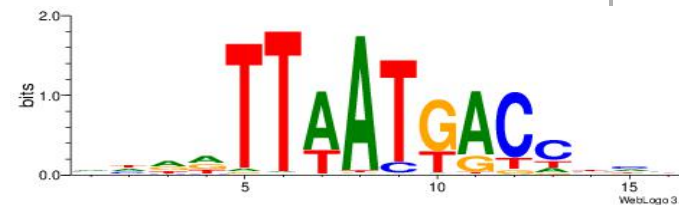
Original motif

Reverse complement motif

Consensus sequence: VDVGGTCATTAAHHDB



Consensus sequence: VDHHTTAATGACCBHV



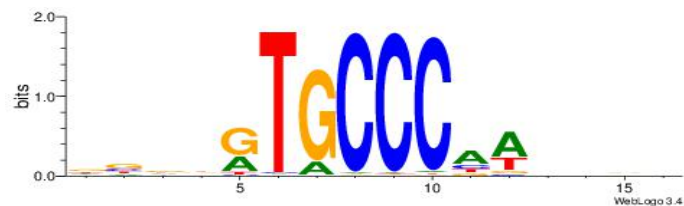
Motif ID: [UP00035](#)
Motif name: Hic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0500062

Alignment:

```
DBDDRTGCCCAWDHDV  
----GTGACCTT----
```

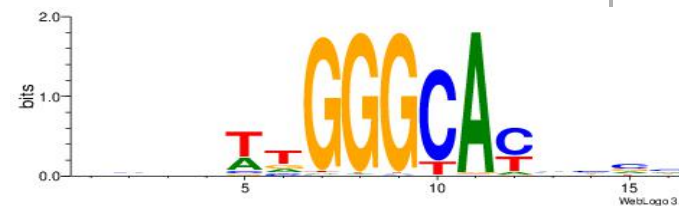
Original motif

Consensus sequence: DBDDRTGCCCAWDHDV



Reverse complement motif

Consensus sequence: VHHDWTGGGCAMDHBH



Dataset #: 4 **Motif ID: 79** **Motif name: cCGCGGrCACG**

Original motif

Consensus sequence: CCGCGGRCACG



Reverse complement motif

Consensus sequence: CGTGKCCGCGG



Best Matches for Motif ID 79 (Highest to Lowest)

Motif ID:	UP00065
Motif name:	Zfp161_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0220206

Alignment:

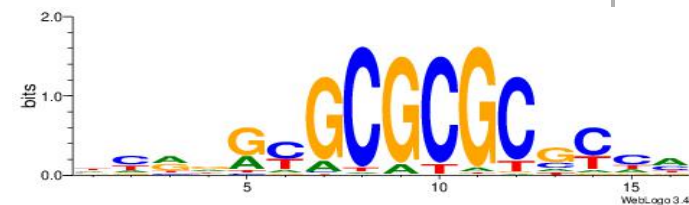
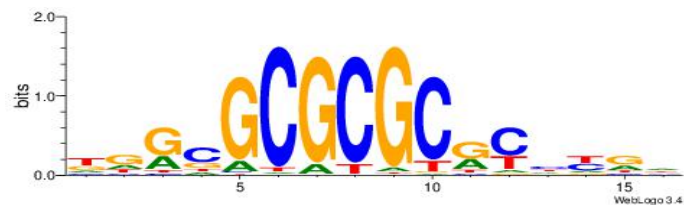
```
DDGCGCGCGCRCHYRD
-----CCGCGGRCACG--
```

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



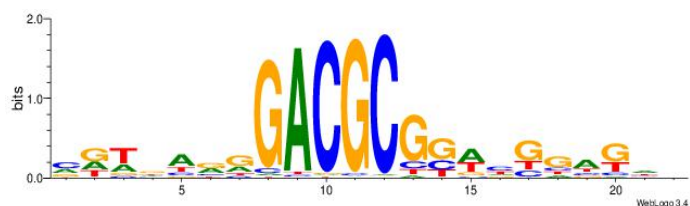
Motif ID: [UP00527](#)
 Motif name: Foxn4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 11
 Similarity score: 0.024575

Alignment:

VHYTCCDWCCGCGTCMMTHWHV
 ---CGTGKCCGCGG-----

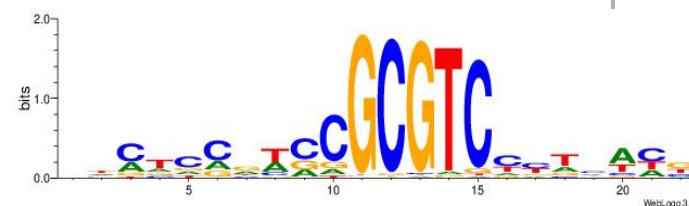
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



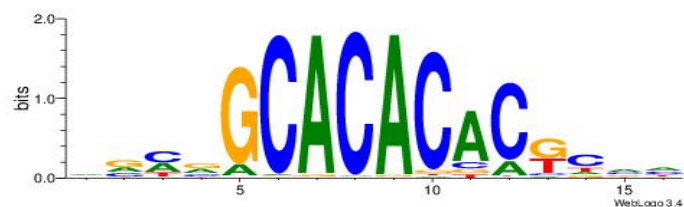
Motif ID: [UP00042](#)

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: 3
 Number of overlap: 11
 Similarity score: 0.0279366

Alignment:
 DVMVGCACACACKCVH
 --CCGCGGRCACG---

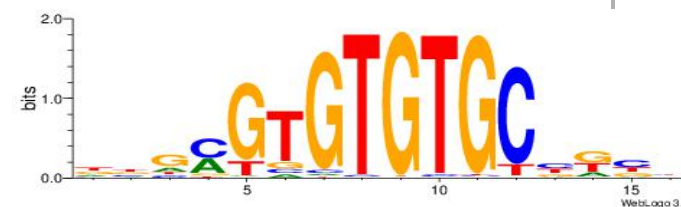
Original motif

Consensus sequence: DVMVGCACACACKCVH



Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



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

Similarity score: 0.0285381

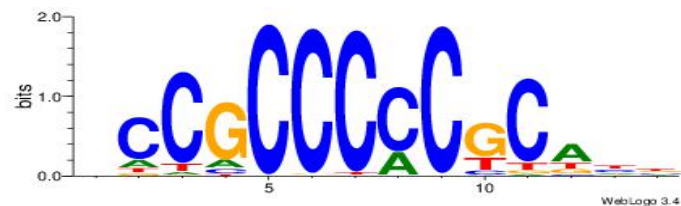
Alignment:

VHTGCGGGGGCGGH

-CCGCGGRCACG--

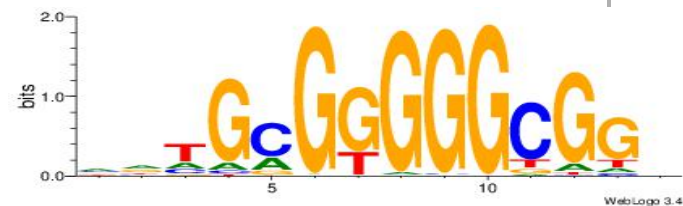
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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: 5

Number of overlap: 11

Similarity score: 0.0335378

Alignment:

ACHRBHDTCCACGTGYAHBMMH

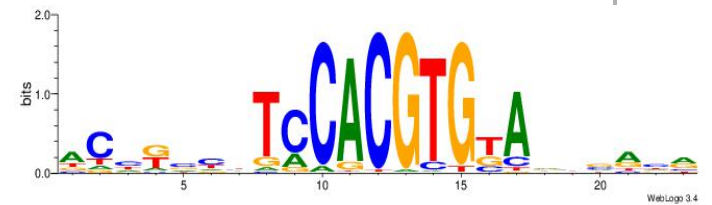
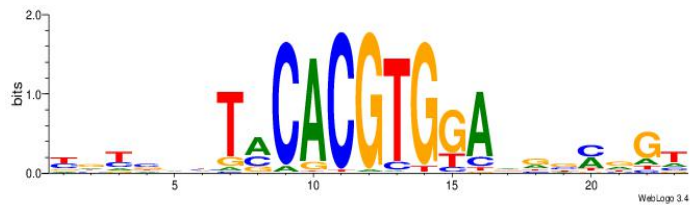
-----CCGCGGRCACG-----

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



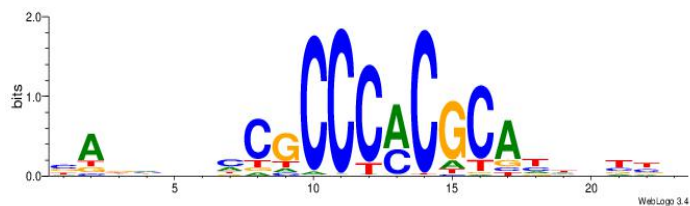
Motif ID: [UP00400](#)
 Motif name: Zif268
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0340428

Alignment:

VVVDHHTGCGYGGGCGDHSVHHTB
 -----CCGCGGRCACG-----

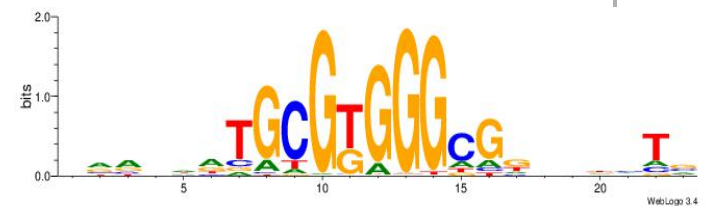
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



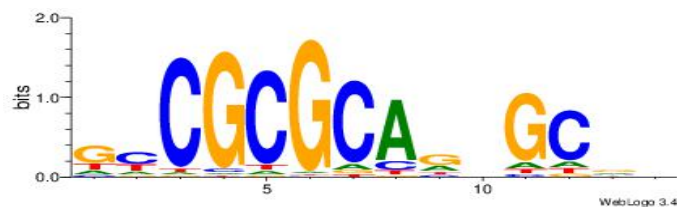
Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.0345855

Alignment:

GYCGCGCARBGCVB
 -CCGCGGRCACG--

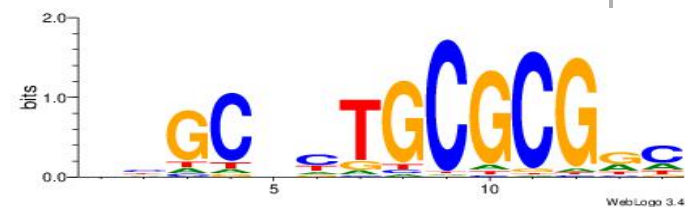
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMGTGCGCGKC



Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3

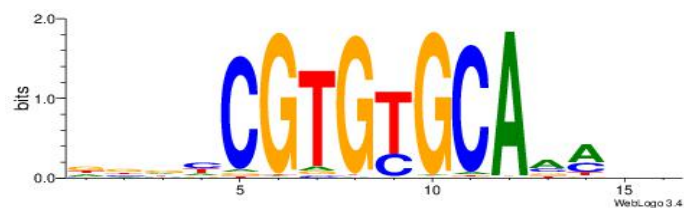
Number of overlap: 11
Similarity score: 0.0350434

Alignment:

DBDHCGTGTGCAAMDH
---CCGCGGRCACG---

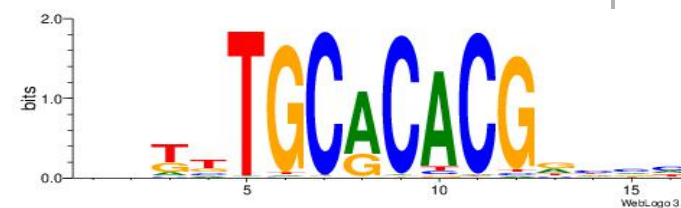
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBB



Motif ID: [UP00076](#)
Motif name: Rfxdc2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0359928

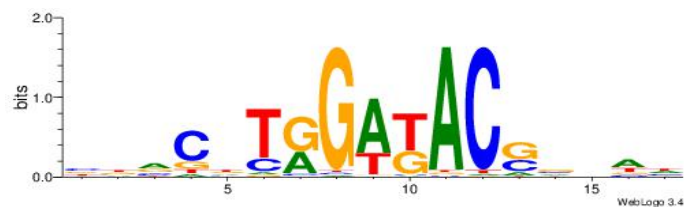
Alignment:

HDDVSGTRTCMADGBVB
----CGTGKCCGCGG--

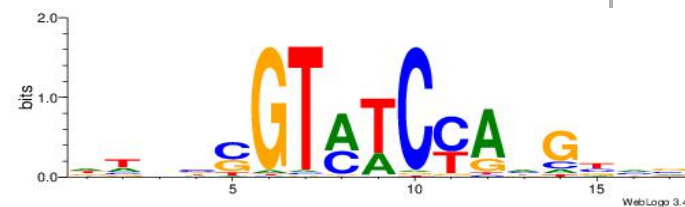
Original motif

Reverse complement motif

Consensus sequence: BBVCDTRGAKACSVDDH



Consensus sequence: HDDVSGTRTCMADGBVB



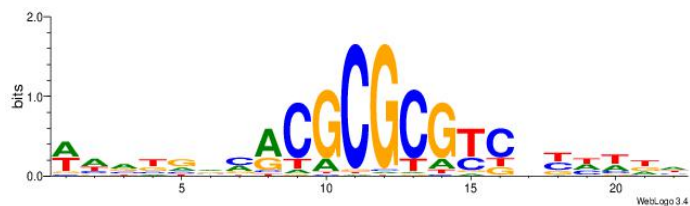
Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0361963

Alignment:

```
HDWHMHGACGCGCGTRBVVBHW  
-----CCGCGGRCACG--
```

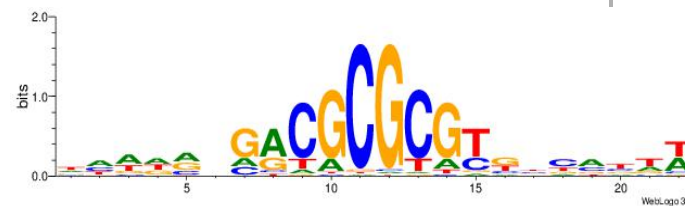
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 5 **Motif ID: 84** **Motif name: TFW3**

Original motif

Consensus sequence: GCACTG



Reverse complement motif

Consensus sequence: CAGTGC



Best Matches for Motif ID 84 (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:	8
Number of overlap:	6
Similarity score:	0

Alignment:

BBBAVTGCAGTGBBVDD

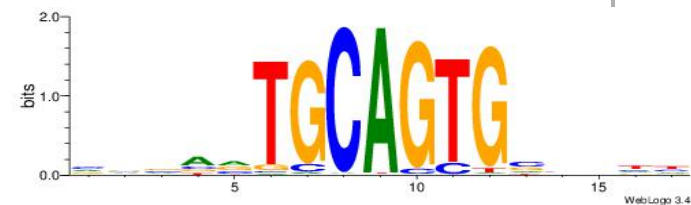
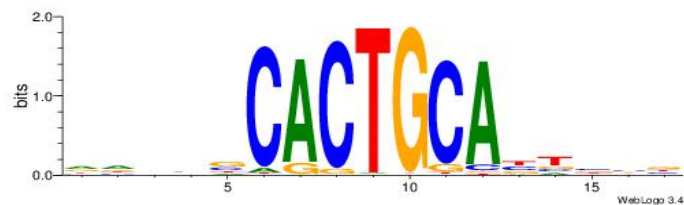
-----CAGTGC-----

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

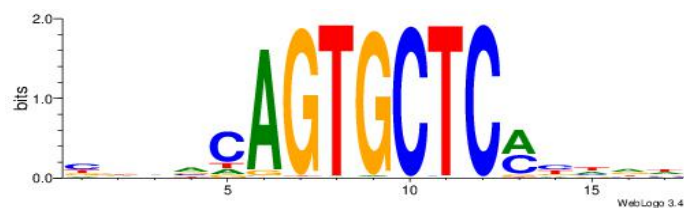


Motif ID: [UP00095](#)
 Motif name: Zfp691_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.020963

Alignment:
 BDHVCAGTGCTCMBHDD
 ----CAGTGC-----

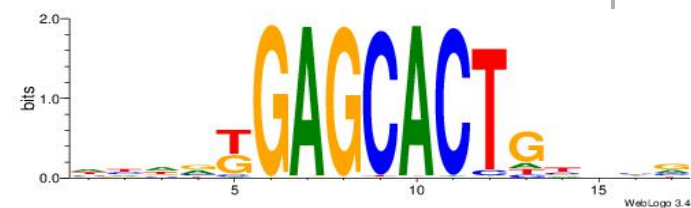
Original motif

Consensus sequence: BDHVCAGTGCTCMBHDD



Reverse complement motif

Consensus sequence: DDHBYGAGCACTGBHHB



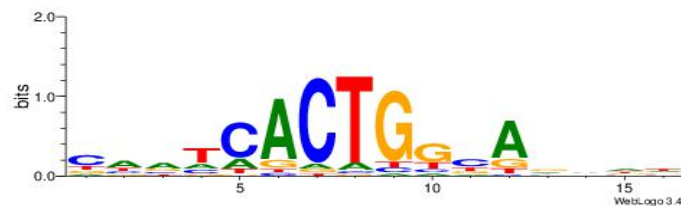
Motif ID: [UP00031](#)

Motif name: Zbtb3_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: 6
 Similarity score: 0.0248871

Alignment:
 DDHHTBCCAGTGABHG
 -----CAGTGC---

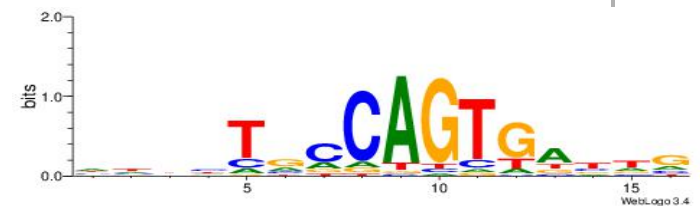
Original motif

Consensus sequence: CHVTCACTGGBADHDD



Reverse complement motif

Consensus sequence: DDHHTBCCAGTGABHG



Motif ID: [UP00065](#)
 Motif name: Zfp161_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 6

Similarity score: 0.0303167

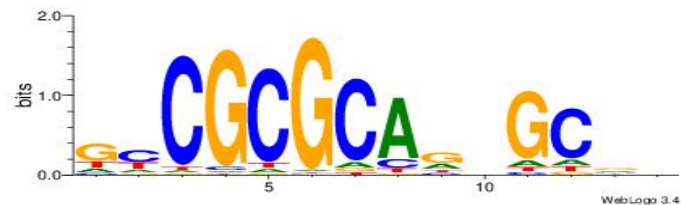
Alignment:

GYCGCGCARBGCVB

-----CAGTGC--

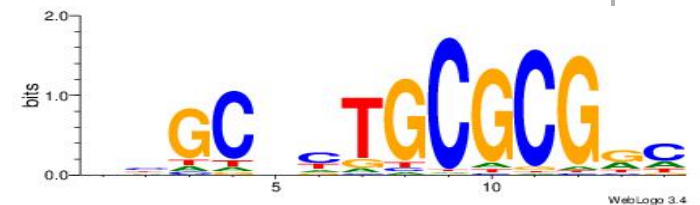
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



Motif ID: [UP00006](#)
Motif name: Zic3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.0420592

Alignment:

DDDCACAGCAKGHVD

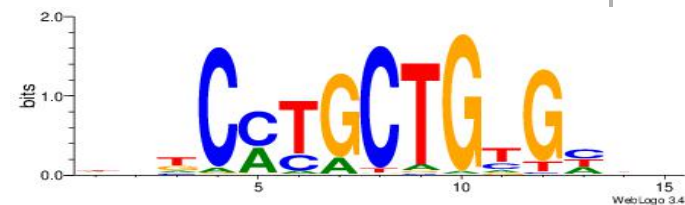
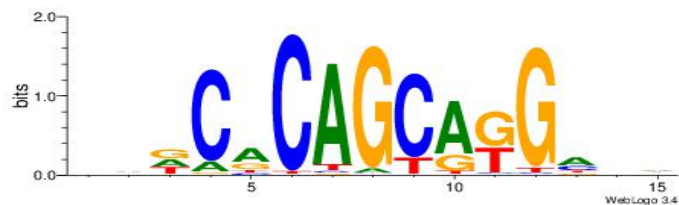
--GCACTG-----

Original motif

Consensus sequence: DDDCACAGCAKGHVD

Reverse complement motif

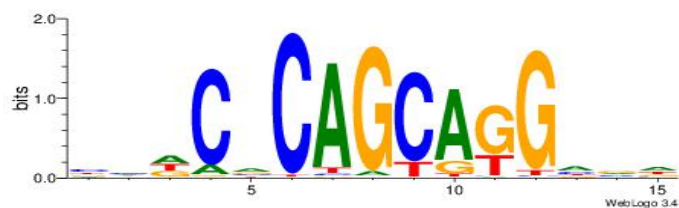
Consensus sequence: DVHCTGTGCTGTGHDH



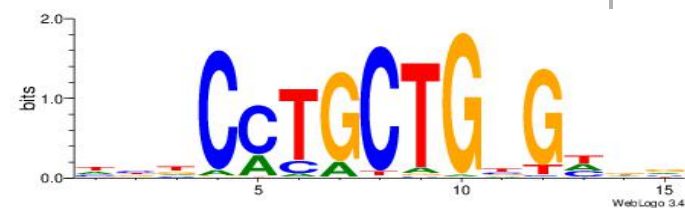
Motif ID: [UP00102](#)
 Motif name: Zic1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 6
 Similarity score: 0.0499082

Alignment:
 BHDCVCAGCAGGHVD
 --GCACTG-----

Original motif
 Consensus sequence: BHDCVCAGCAGGHVD



Reverse complement motif
 Consensus sequence: DVHCCTGCTGBGDDDB



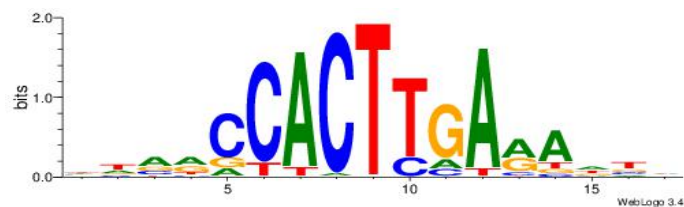
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0507672

Alignment:

DVDTKTCAAGTGGKBDH
 -----CAGTGC-----

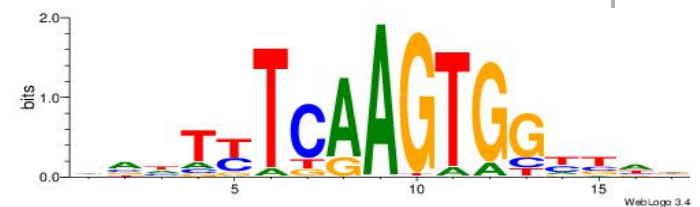
Original motif

Consensus sequence: HDVRCCAAGTGGKBDH



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



Motif ID: [UP00107](#)
 Motif name: Nkx2-4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5

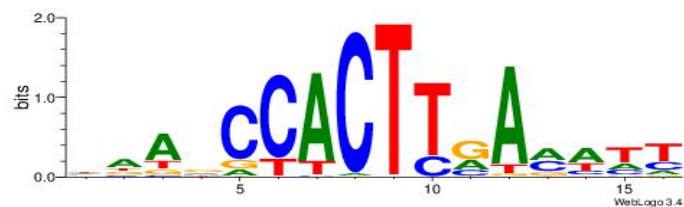
Number of overlap: 6
Similarity score: 0.0519322

Alignment:

AAWYTMAAGTGGVTDH
-----CAGTGC-----

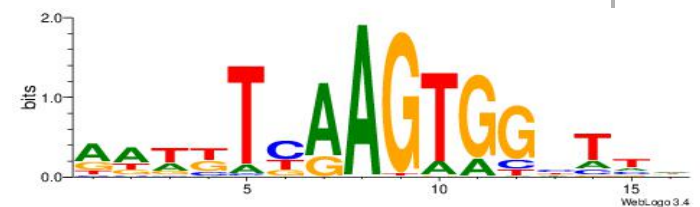
Original motif

Consensus sequence: HDAVCCACTTTRAMWTT



Reverse complement motif

Consensus sequence: AAWYTMAAGTGGVTDH



Motif ID: [UP00193](#)
Motif name: RhoX11_2205.1
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: 0.0530479

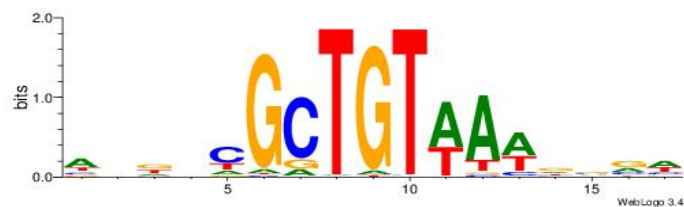
Alignment:

WVHWTWACAGCGHHVT
-----CAGTGC---

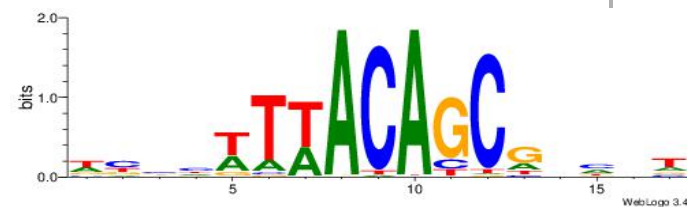
Original motif

Reverse complement motif

Consensus sequence: AVDHCGCTGTWAWDVVW



Consensus sequence: WVVHWTWACAGCGHHVT



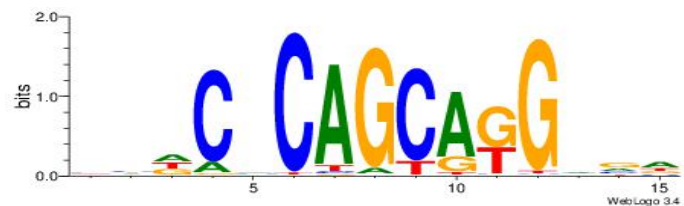
Motif ID: [UP00057](#)
Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.0539075

Alignment:

HHDCVCAGCAKGVVD
--GCACTG-----

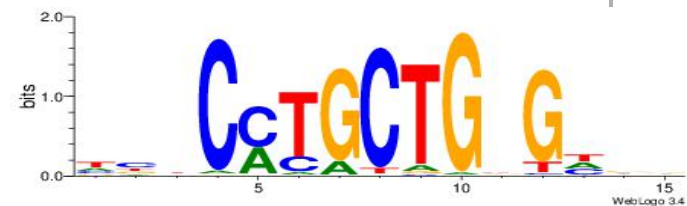
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



Dataset #: 5 **Motif ID: 85** **Motif name: TFW1**

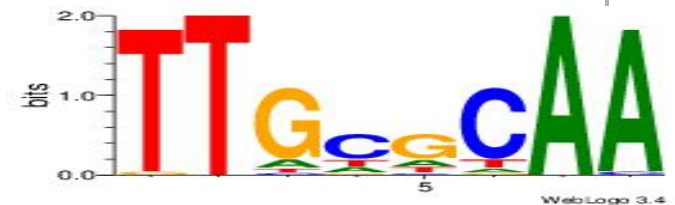
Original motif

Consensus sequence: TTGCGCAA



Reverse complement motif

Consensus sequence: TTGCGCAA



Best Matches for Motif ID 85 (Highest to Lowest)

Motif ID:	UP00045
Motif name:	Mafb_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.00957029

Alignment:

HDWWTTTGTCAADB

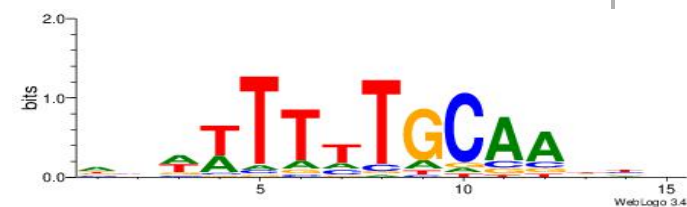
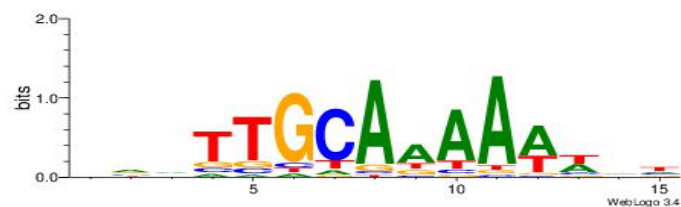
----TTGCGCAA----

Original motif

Consensus sequence: HVDTTGCAAAWWDH

Reverse complement motif

Consensus sequence: HDWWTTTGTCAADB

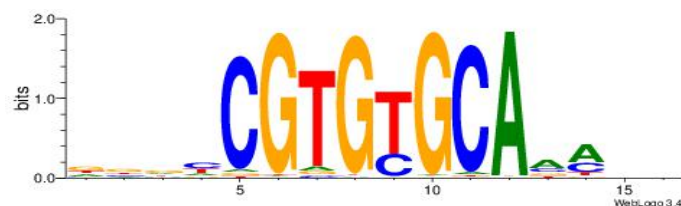


Motif ID: [UP00097](#)
 Motif name: Mtf1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0184619

Alignment:
 DBDHCGTGTGCAAMDH
 -----TTGCGCAA---

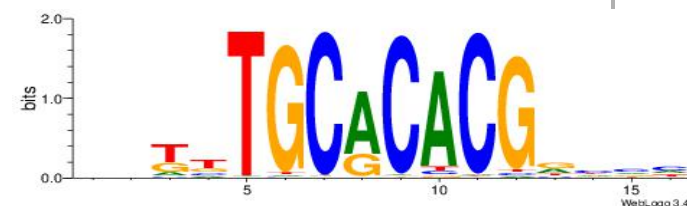
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBD



Motif ID: [UP00259](#)

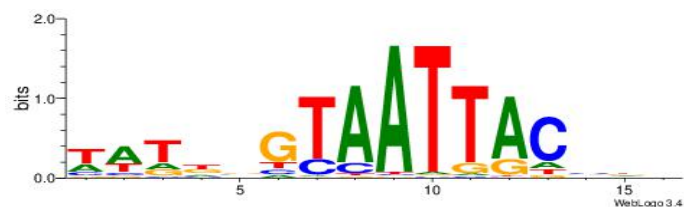
Motif name: Hoxb6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 8
 Similarity score: 0.0226004

Alignment:

WWTDBGTAATTACVDB
 -TTGCGCAA-----

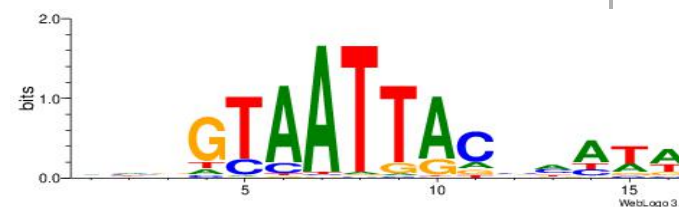
Original motif

Consensus sequence: WWTDBGTAATTACVDB



Reverse complement motif

Consensus sequence: VDVGTAATTACBDAWW

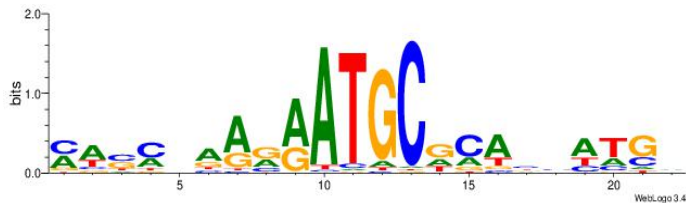


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8

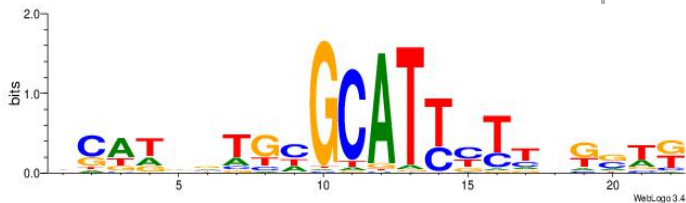
Similarity score: 0.0239956

Alignment:
DCATDBTGHGCATKMTTBRSWR
-----TTGCGCAA-----

Original motif
Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
Consensus sequence: DCATDBTGHGCATKMTTBRSWR

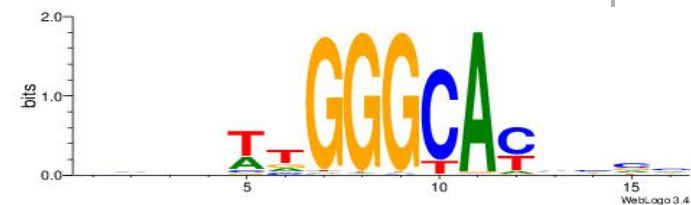
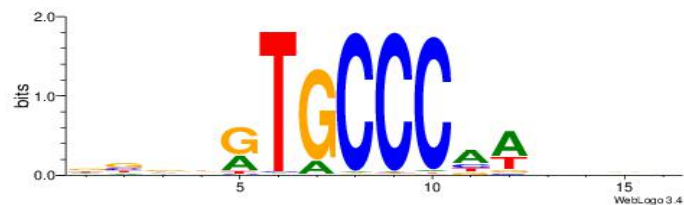


Motif ID: [UP00035](#)
Motif name: Hic1_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 8
Similarity score: 0.0261465

Alignment:
VHHDWTGGGCAMDHBH
-----TTGCGCAA-----

Original motif
Consensus sequence: DBDDRTGCCC AWDHDV

Reverse complement motif
Consensus sequence: VHHDWTGGGCAMDHBH



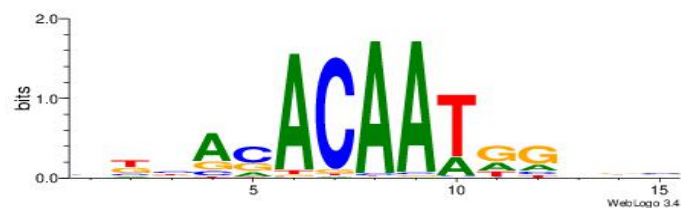
Motif ID: [UP000004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 8
 Similarity score: 0.0272314

Alignment:

BKBASACAATRGHBB
 -TTGCGCAA-----

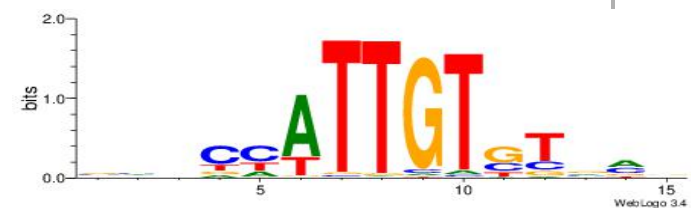
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



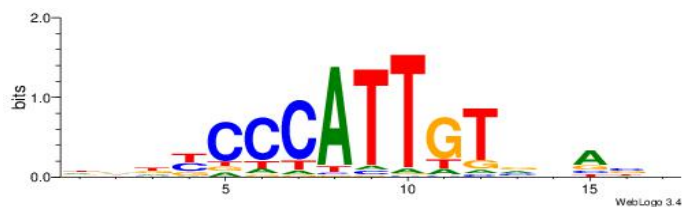
Motif ID: [UP00055](#)
 Motif name: Hbp1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.0278778

Alignment:

HBTHVACAATGGGMDHD
 -TTGCGCAA-----

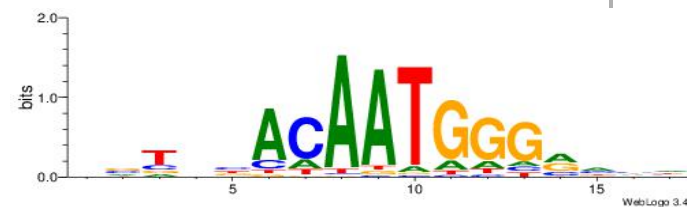
Original motif

Consensus sequence: DDDYCCCATTGTVHABH



Reverse complement motif

Consensus sequence: HBTHVACAATGGGMDHD



Motif ID: [UP00138](#)
 Motif name: Bsx
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8

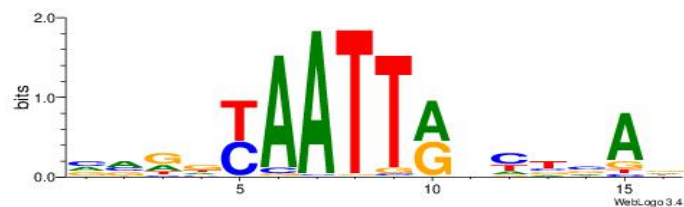
Number of overlap: 8
Similarity score: 0.0281625

Alignment:

VVRDYAATTRBYBVAD
-----TTGCGCAA-

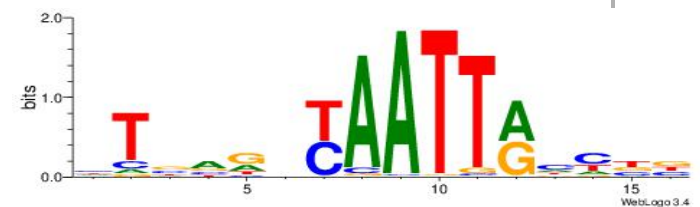
Original motif

Consensus sequence: VVRDYAATTRBYBVAD



Reverse complement motif

Consensus sequence: HTVVKBKAATTMHMBV



Motif ID: [UP00126](#)
Motif name: Dlx2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.030109

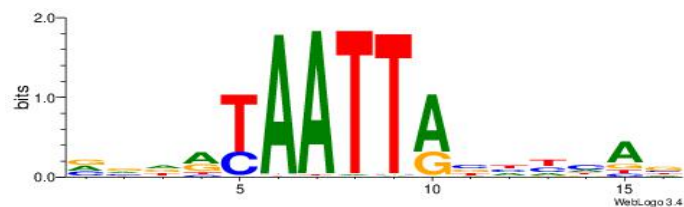
Alignment:

VVDRTAATTABHHHAB
-----TTGCGCAA-

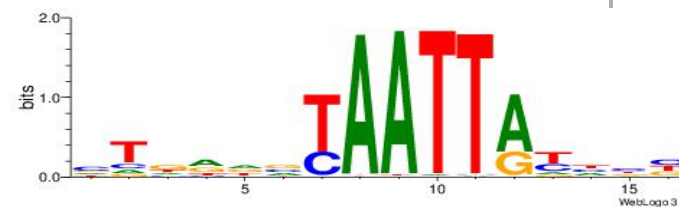
Original motif

Reverse complement motif

Consensus sequence: VVDRTAATTABHHHAB



Consensus sequence: BTDHHBTAATTAKDVV

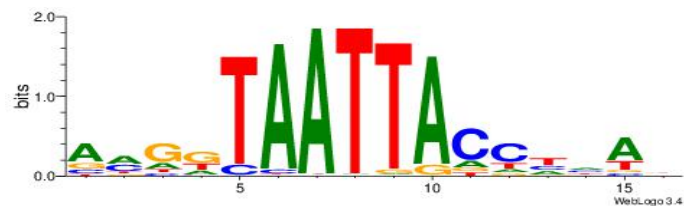


Motif ID: [UP00182](#)
Motif name: Hoxa6
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0.0308523

Alignment:
AMGKTAATTACCHHAD
-----TTGCGCAA--

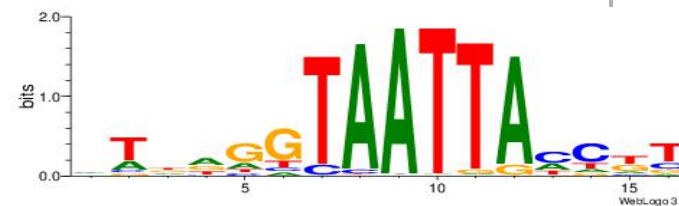
Original motif

Consensus sequence: AMGKTAATTACCHHAD



Reverse complement motif

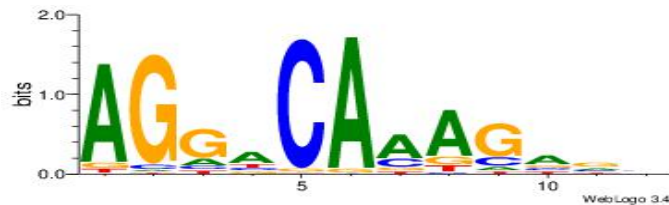
Consensus sequence: DTHHGGTAATTAYCYT



Dataset #: 5 **Motif ID: 87** **Motif name: TFF1**

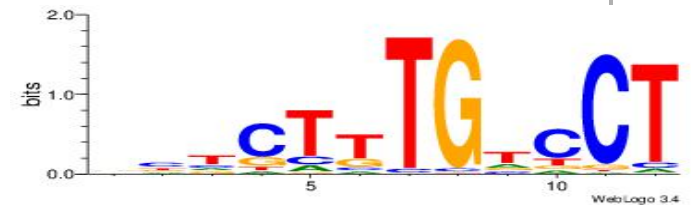
Original motif

Consensus sequence: AGGACAAAGAVV



Reverse complement motif

Consensus sequence: VVTCTTTGTCCT



Best Matches for Motif ID 87 (Highest to Lowest)

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:	3
Number of overlap:	12
Similarity score:	0.0258536

Alignment:

HBDDDAACAAAGRVBHH

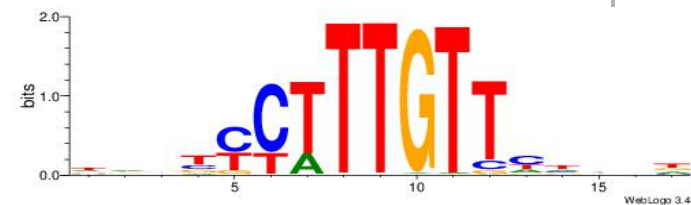
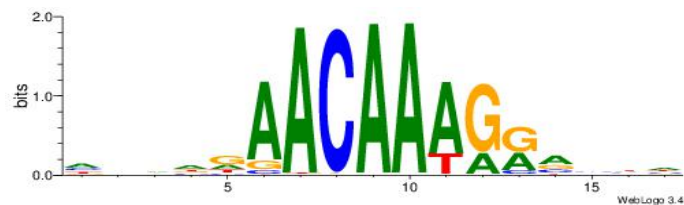
---AGGACAAAGAVV---

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

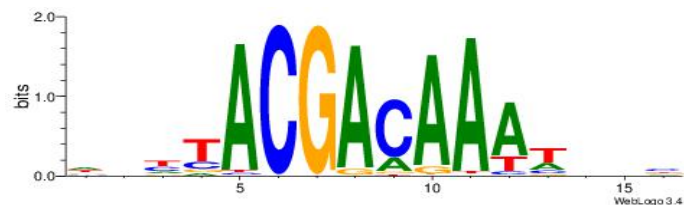
Consensus sequence: HHBBMCTTTGTTHTDBH



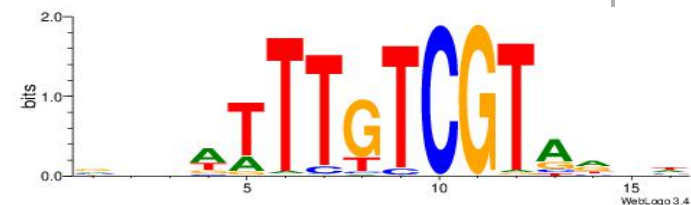
Motif ID: [UP00072](#)
 Motif name: IRC900814_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0258585

Alignment:
 DDHTACGACAAWDDDB
 ----AGGACAAAGAVV

Original motif
 Consensus sequence: DDHTACGACAAWDDDB



Reverse complement motif
 Consensus sequence: BHDWTTTGTCTGTAHDD



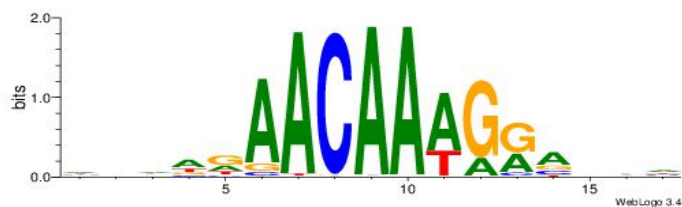
Motif ID: [UP00030](#)
 Motif name: Sox11_primary

Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0284165

Alignment:
 HBDDRAACAAAGRABHH
 ---AGGACAAAGAVV--

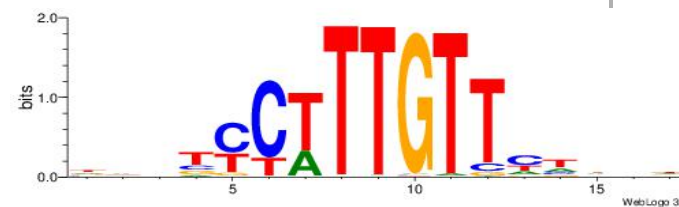
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0317868

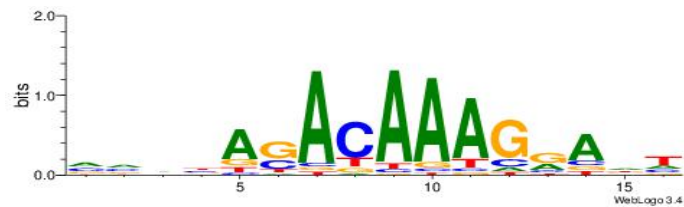
Alignment:

VVDBASACAAAGRADH

---AGGACAAAGAVV-

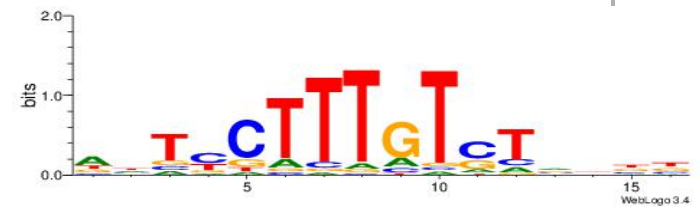
Original motif

Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif

Consensus sequence: HDTMCTTTGTSTVDBB



Motif ID:	UP00067
Motif name:	Lef1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0318041

Alignment:

VDDAGATCAAAGGKDDD

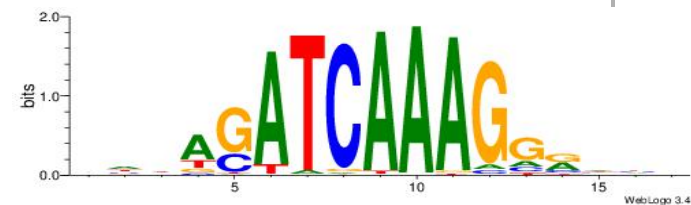
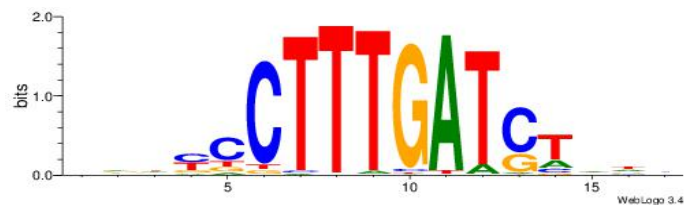
---AGGACAAAGAVV--

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD

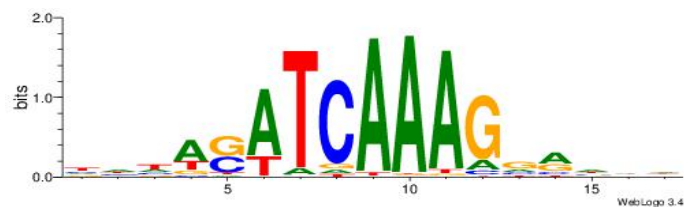


Motif ID: [UP00058](#)
 Motif name: Tcf3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0329392

Alignment:
 HHHASATCAAAGVRHHH
 ---AGGACAAAGAVV--

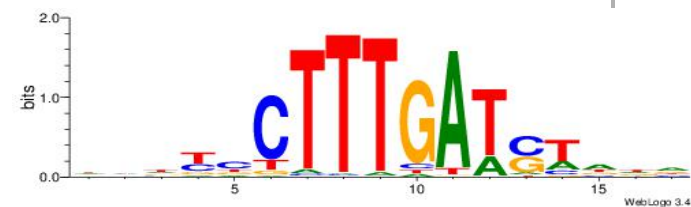
Original motif

Consensus sequence: HHHASATCAAAGVRHHH



Reverse complement motif

Consensus sequence: HHHKVCTTTGATSTHHH



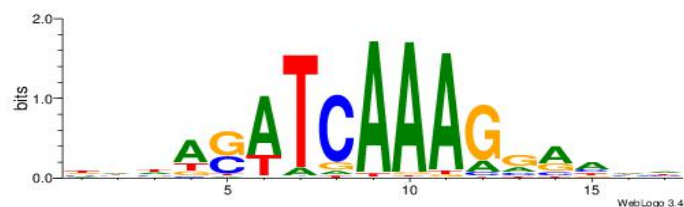
Motif ID: [UP00054](#)

Motif name: Tcf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0344802

Alignment:
 BHHASATCAAAGGAHHH
 ---AGGACAAAGAVV--

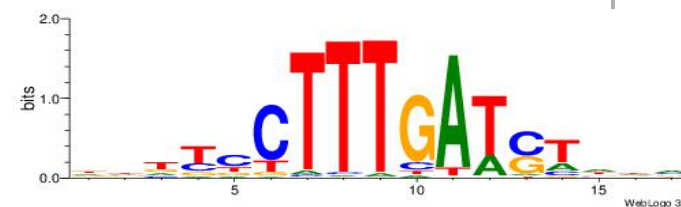
Original motif

Consensus sequence: BHHASATCAAAGGAHHH



Reverse complement motif

Consensus sequence: HHHTCCTTTGATSTHHV



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: Backward
 Position number: 4
 Number of overlap: 12

Similarity score: 0.0344812

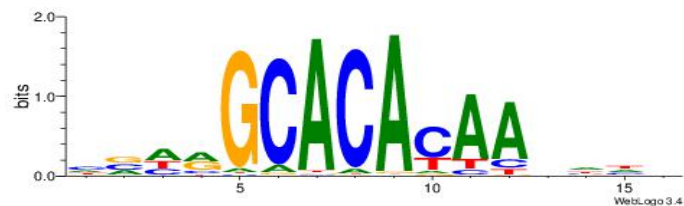
Alignment:

BHHHTTGTGTGCKHVD

-VVTCTTTGTCCT---

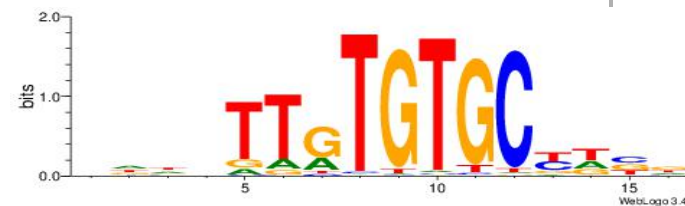
Original motif

Consensus sequence: HVHRGCACACAAHHHV



Reverse complement motif

Consensus sequence: BHHHTTGTGTGCKHVD



Motif ID: [UP00083](#)
Motif name: Tcf7l2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0344876

Alignment:

DDDYCCTTTGATSTDDV

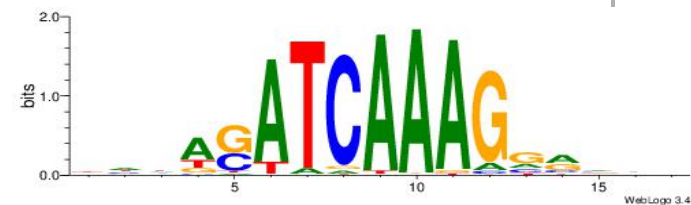
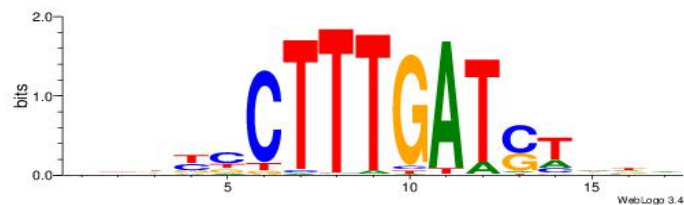
--VVTCTTTGTCCT---

Original motif

Consensus sequence: DDDYCCTTTGATSTDDV

Reverse complement motif

Consensus sequence: BDDASATCAAAGGMDDD



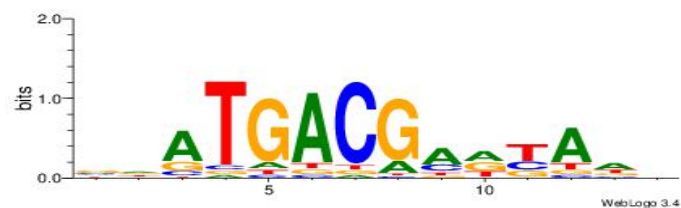
Motif ID: [UP00020](#)
 Motif name: Atf1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0352035

Alignment:

VDATGACGADYADH
 --AGGACAAAGAVV

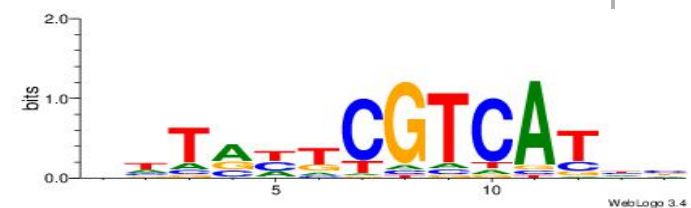
Original motif

Consensus sequence: VDATGACGADYADH



Reverse complement motif

Consensus sequence: DDTMDTCGTCATDV



Results created by MOTIFSIM on 11-19-2016 20:57:29
Runtime: 853.531 seconds

MOTIFSIM is written by Ngoc Tam L. Tran
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