



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

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
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
DREME_DM230.txt	1	1
MEME_DM230.txt	20	2
PScanChIP_DM230.txt	14	3
RSAT_peak-motifs_DM230.txt	10	4
PScanChIP_DM230.txt	14	5

RESULTS

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

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

Original motif

Consensus sequence: GGC GGGGC



Reverse complement motif

Consensus sequence: GCCCGGCC



Best Matches for Motif ID 1 (Highest to Lowest)

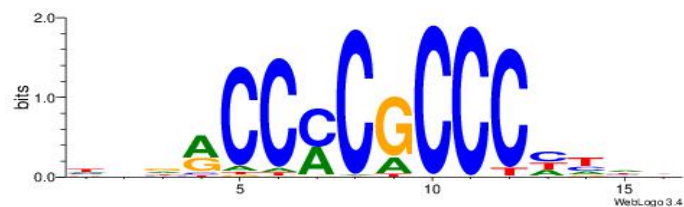
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0

Alignment:

```
HBDRCCMCGCCCHHHD
---GCCCGGCC-----
```

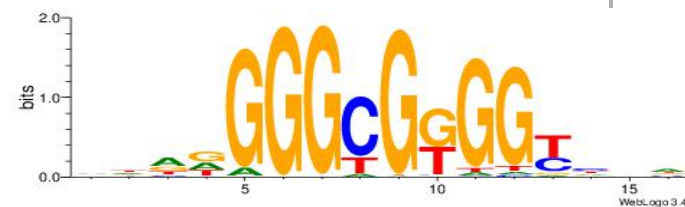
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00000](#)
Motif name: Smad3_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.00617043

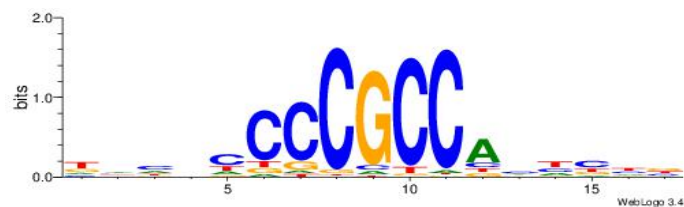
Alignment:

BHBHDTGGCGGGBDHD

-----GGCGGGGC---

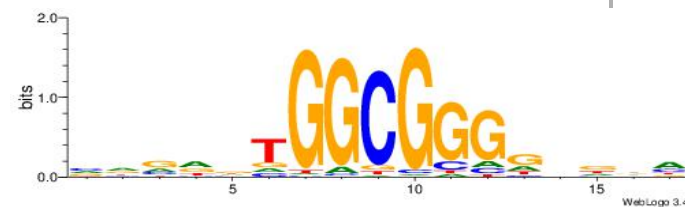
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



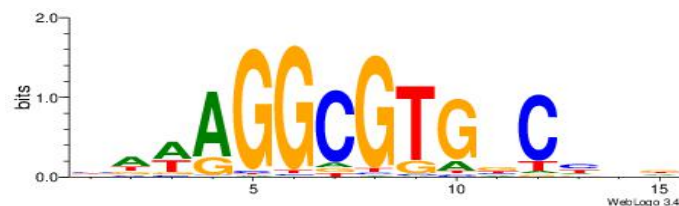
Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0145996

Alignment:

BDWAGGCGTGBCHHD
 ----GGCGGGGC---

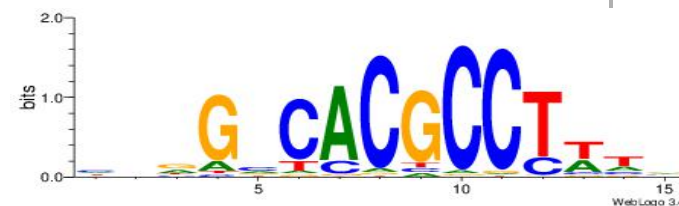
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward

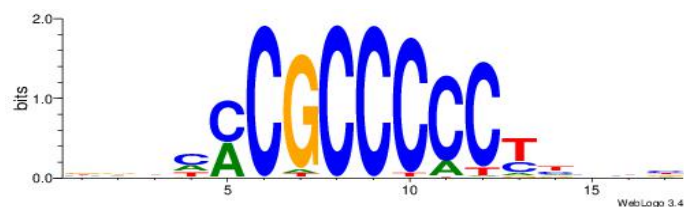
Position number: 9
Number of overlap: 8
Similarity score: 0.0233506

Alignment:

BDHHMCGCCCCCTHVBB
-GCCCCGCC-----

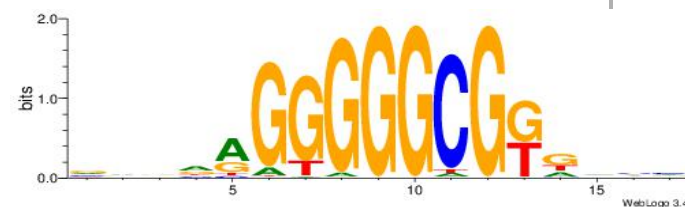
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



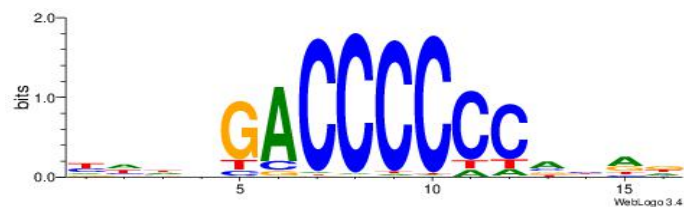
Motif ID: [UP00024](#)
Motif name: Glis2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0291232

Alignment:

HHHVGACCCCCCVBRD
----GCCCCGCC----

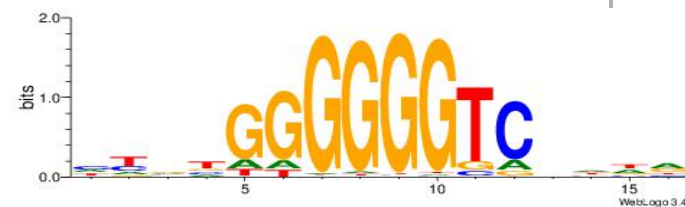
Original motif

Consensus sequence: HHHVGACCCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCVHHH



Motif ID: [UP00022](#)
Motif name: Zfp740_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0338469

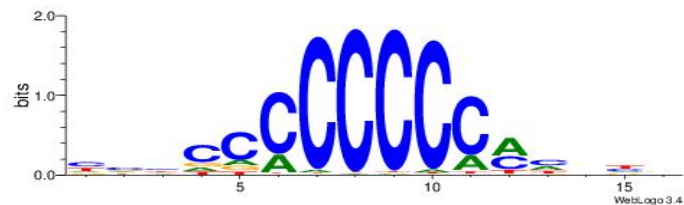
Alignment:

BHHDYGGGGGGGGBVD

-----GCCGGGGC---

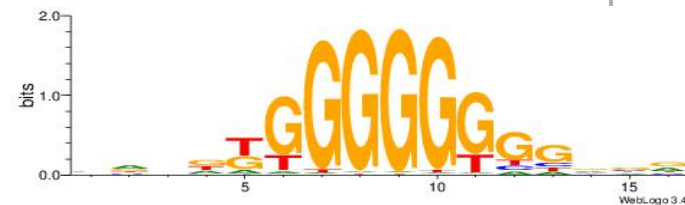
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



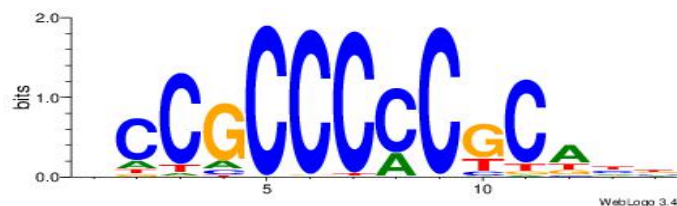
Motif ID: [UP00007](#)
Motif name: Egr1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0361147

Alignment:

VHTGCGGGGGCGGH
---GGCGGGGC---

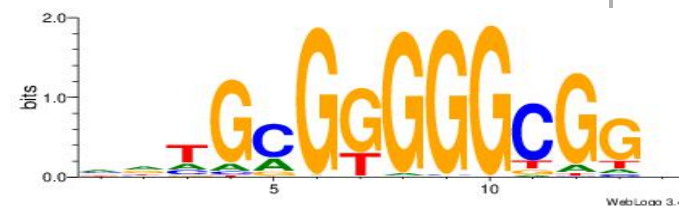
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00539](#)
Motif name: Gli2_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward

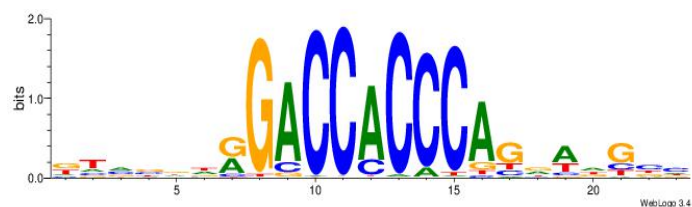
Position number: 8
Number of overlap: 8
Similarity score: 0.0374146

Alignment:

DTVBD DRGACCACCCAGDWDGBH
-----GCCCGCC-----

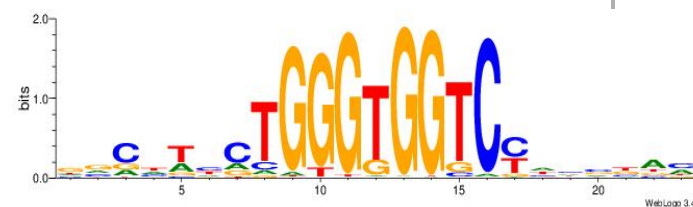
Original motif

Consensus sequence: DTVBD DRGACCACCCAGDWDGBH



Reverse complement motif

Consensus sequence: DBCDWHCTGGGTGGTCMDHBBAH



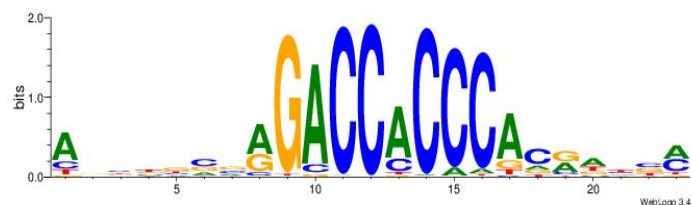
Motif ID: [UP00540](#)
Motif name: Gli3_v015681_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0376381

Alignment:

ABBBBVVRGACCACCCACRDBBM
-----GCCCGCC-----

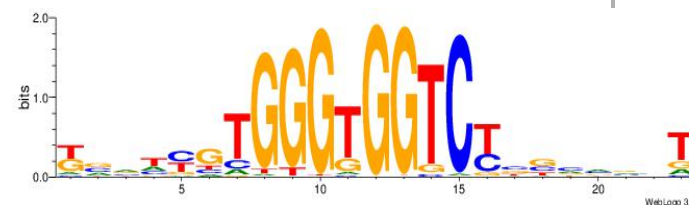
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00021](#)
Motif name: Zfp281_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0392043

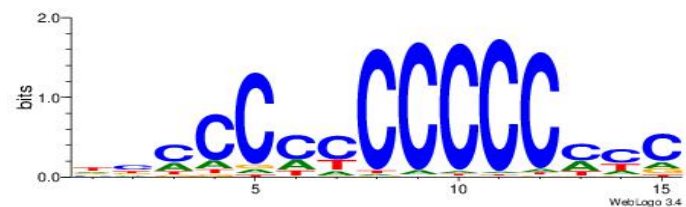
Alignment:

GKRGGGGGGGGGGBD

---GGCGGGGC----

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

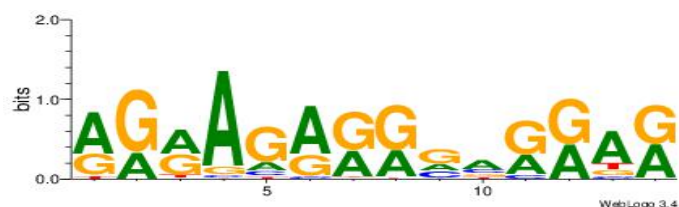
Consensus sequence: GKRGGGGGGGGGGBD



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

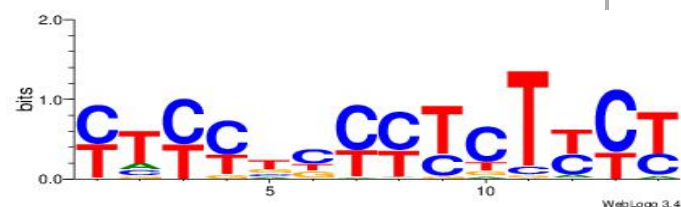
Original motif

Consensus sequence: RGRAGARRGARRAR



Reverse complement motif

Consensus sequence: MTMMTCMMTCTKCK



Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID:	UP00013
Motif name:	Gabpa_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0378622

Alignment:

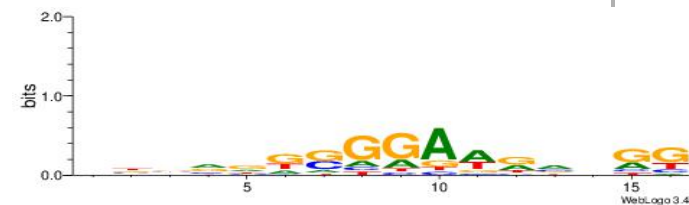
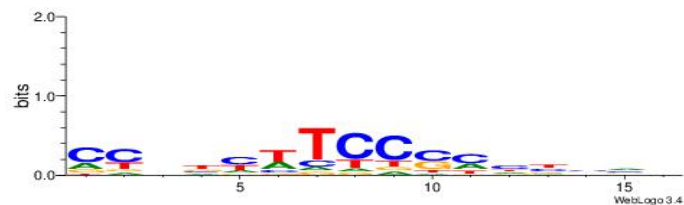
DBVVDRSGGAWKVHKG
RGRAGARRGARRAR--

Original motif

Consensus sequence: CYDBYWTCCTSMHBVVH

Reverse complement motif

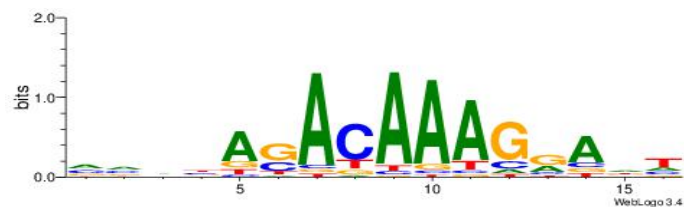
Consensus sequence: DBVVDRSGGAWKVHKG



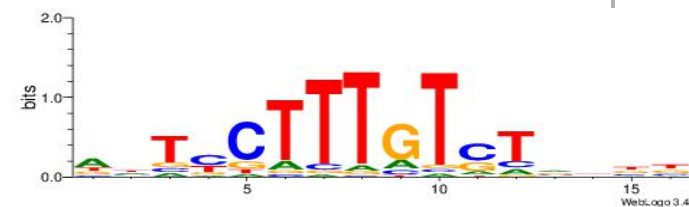
Motif ID: [UP00101](#)
 Motif name: Sox12_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.038148

Alignment:
 VVDBASACAAAGRADH
 -RGRAGARRGARRAR-

Original motif
 Consensus sequence: VVDBASACAAAGRADH



Reverse complement motif
 Consensus sequence: HDTMCTTTGTSTVDBB



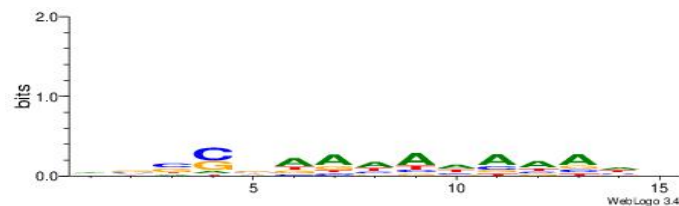
Motif ID: [UP00058](#)

Motif name: Tcf3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.039618

Alignment:
 DVBSBDAHAHAHAHH
 RGRAGARRGARRAR-

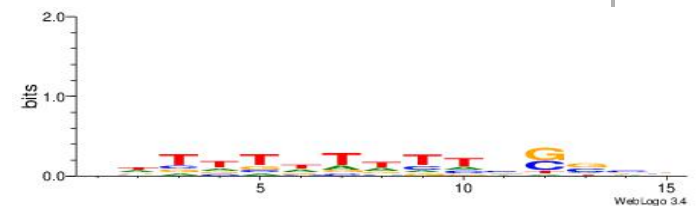
Original motif

Consensus sequence: DVBSBDAHAHAHAHH



Reverse complement motif

Consensus sequence: HHTHTHTHTDBSBVD

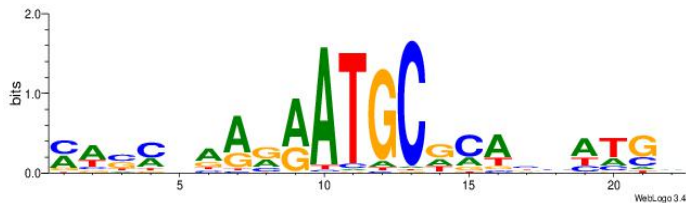


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14

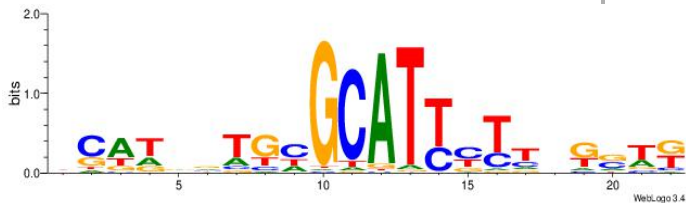
Similarity score: 0.0407385

Alignment:
MWSMBAARRATGCD CABHATGD
MTMMTCMMTCTKCK-----

Original motif
Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif
Consensus sequence: DCATDBTGHGCATKMTTBRSWR

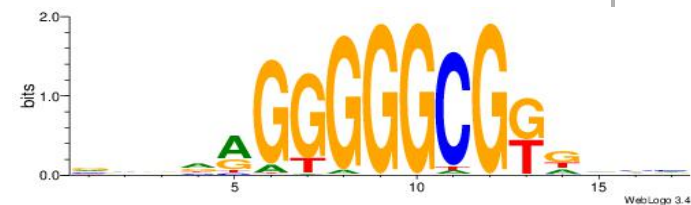
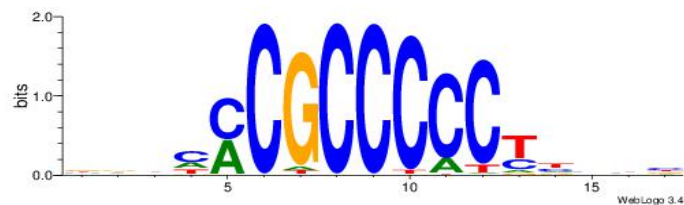


Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0409403

Alignment:
BVVHAGGGGGCGRDHBB
-RGRAGARRGARR--

Original motif
Consensus sequence: BDHHMCGCCCCCTHVBB

Reverse complement motif
Consensus sequence: BVVHAGGGGGCGRDHBB

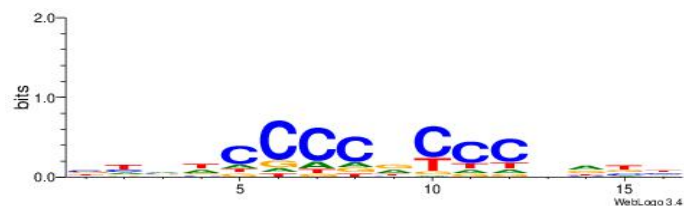


Motif ID: [UP00099](#)
 Motif name: Ascl2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0411988

Alignment:
 BHVDCCCCDCCCBDBH
 RGRAGARRGARRAR--

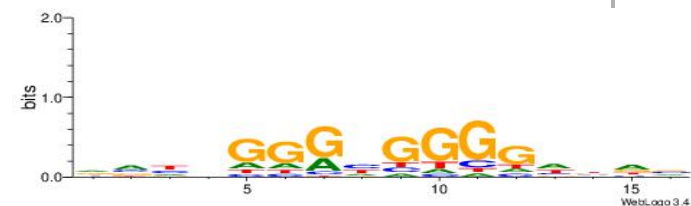
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGGHGGGGDBHB



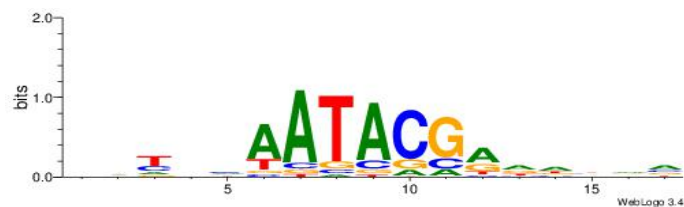
Motif ID: [UP00059](#)
 Motif name: Arid5a_secondary

Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0412606

Alignment:
BDYDVAATACGADDBVV
---RGRAGARRGARRAR

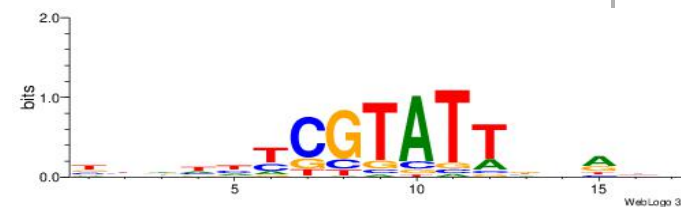
Original motif

Consensus sequence: BDYDVAATACGADDBVV



Reverse complement motif

Consensus sequence: BBVDDTCGTATTVDMHB



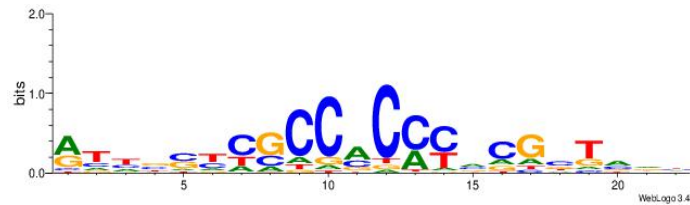
Motif ID: [UP00539](#)
Motif name: Gli2_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0419643

Alignment:

HDBABCGBKRGYGGCGMSBHAK
--RGRAGARRGARRAR-----

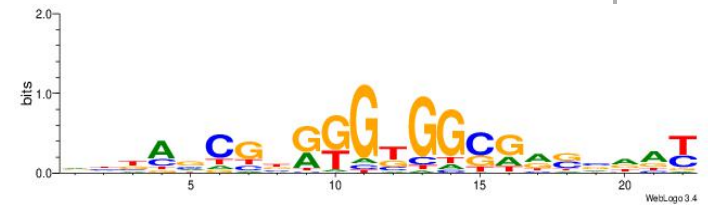
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



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:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0420085

Alignment:

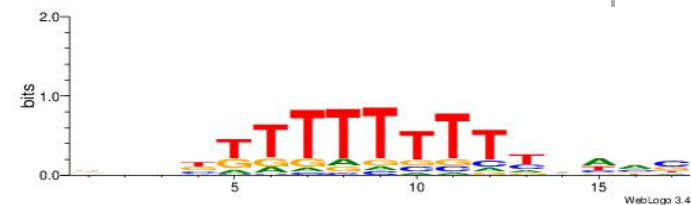
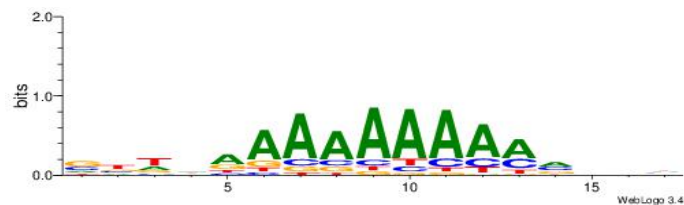
VBDDAAAAAAAAAMVBHH
---RGRAGARRGARRAR

Original motif

Consensus sequence: VBDDAAAAAAAAAMVBHH

Reverse complement motif

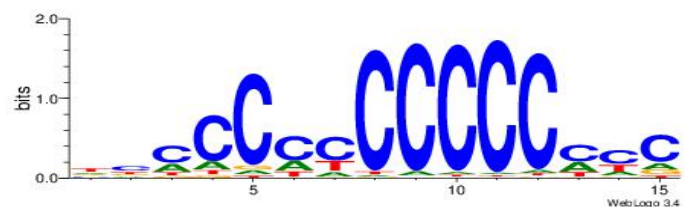
Consensus sequence: HHVBYTTTTTTTTDDVV



Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0430662

Alignment:
 DBCCCCCCCCCMYC
 RGRAGARRGARRAR-

Original motif
 Consensus sequence: DBCCCCCCCCCMYC



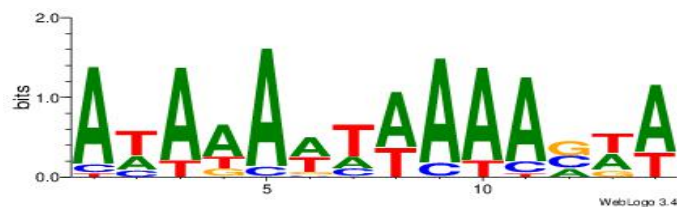
Reverse complement motif
 Consensus sequence: GKRGGGGGGGGGGBD



Dataset #: 2 Motif ID: 3 Motif name: Motif 3

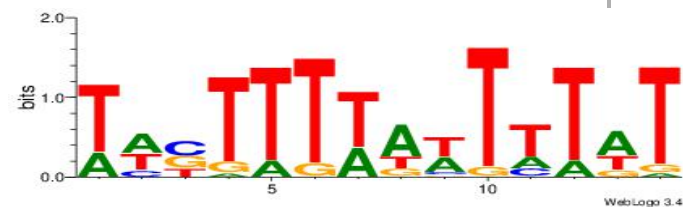
Original motif

Consensus sequence: AWAAAWTWAAASWA



Reverse complement motif

Consensus sequence: TWSTTTWAWTTTWT



Best Matches for Motif ID 3 (Highest to Lowest)

Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0232094

Alignment:

HDDDATTTTATTKVRDB

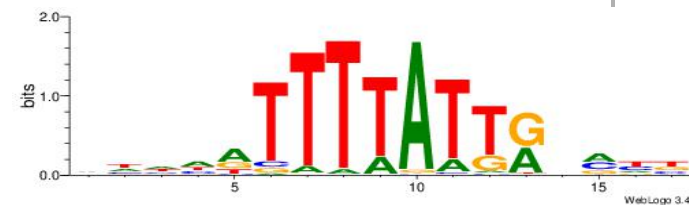
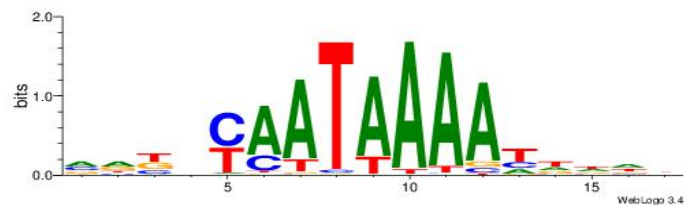
--TWSTTTWAWTTTWT--

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

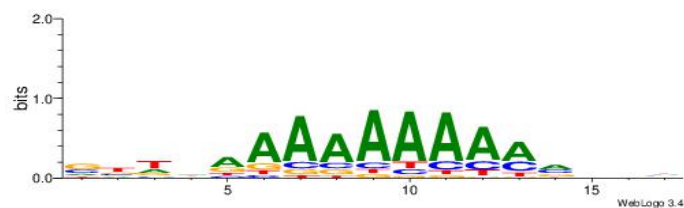
Consensus sequence: HDDDATTTTATTKVRDB



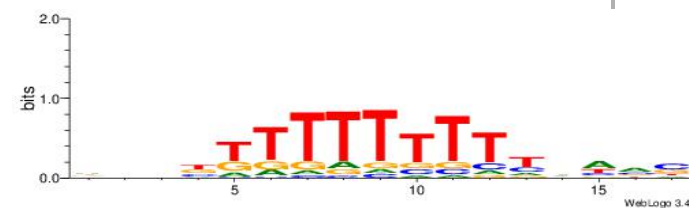
Motif ID: [UP00077](#)
 Motif name: Srf_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.024404

Alignment:
 VBDDAAAAAAAAAMVBHH
 --AWAAAWTWAAASWA--

Original motif
 Consensus sequence: VBDDAAAAAAAAAMVBHH



Reverse complement motif
 Consensus sequence: HHVBYTTTTTTTTDDV



Motif ID: [UP00255](#)

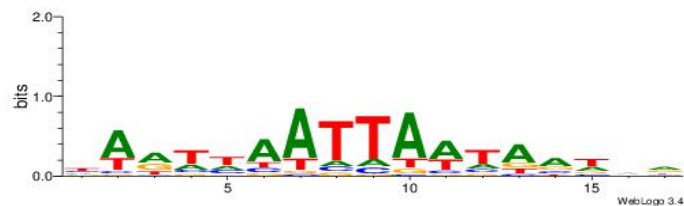
Motif name:	Dbx1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0273798

Alignment:

HARTHAATTAWTAVDHD
 --AWAAAWTWAAASWA--

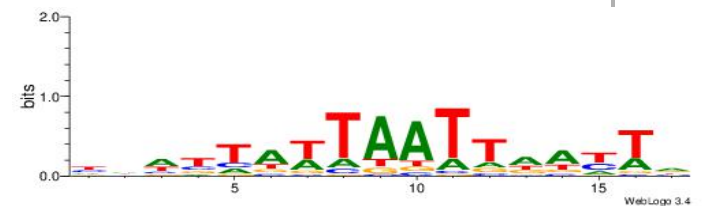
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



Motif ID:	UP00090
Motif name:	Elf3_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:	14

Similarity score: 0.0293574

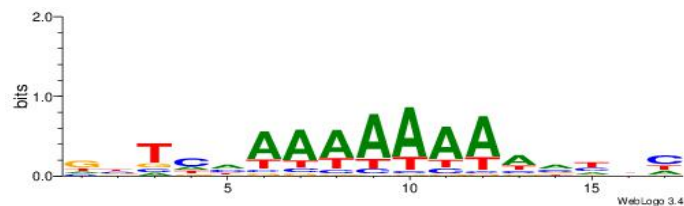
Alignment:

DBTHHAAAAAAAAAVHDH

--AWAAAWTWAAASWA--

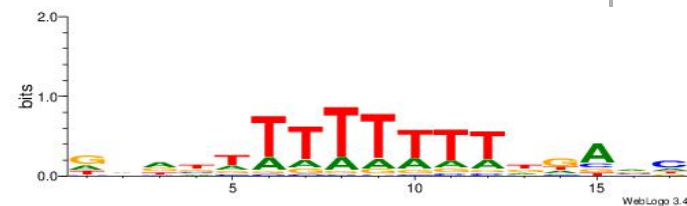
Original motif

Consensus sequence: DBTHHAAAAAAAAAVHDH



Reverse complement motif

Consensus sequence: DDHBTTTTTTTTTHDAVH



Motif ID: [UP00037](#)
Motif name: Zfp105_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0316804

Alignment:

HDYAAHAAMAADHD

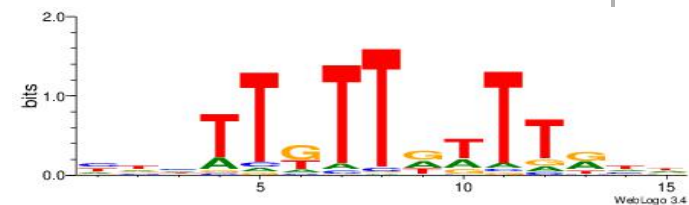
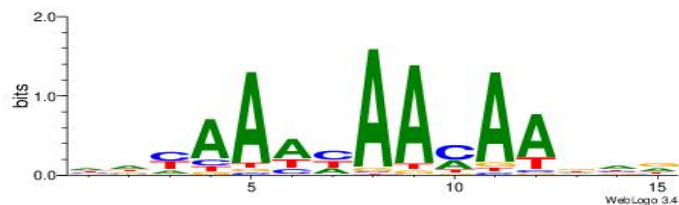
AWAAAWTWAAASWA--

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTRTTDTTTKDH



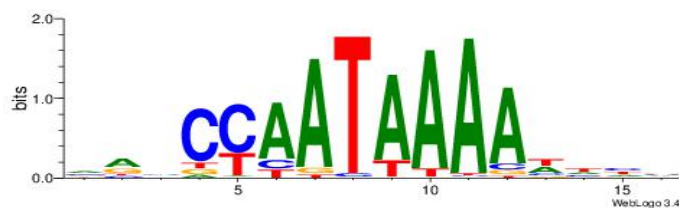
Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.031986

Alignment:

VDHWT TTTATTGGDKB
 -TWSTTTWAWTTTWT-

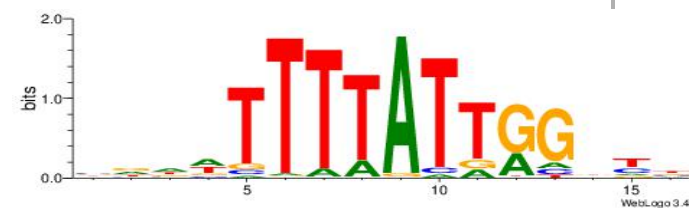
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWT TTTATTGGDKB



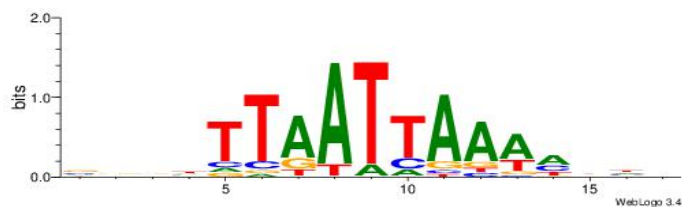
Motif ID: [UP00078](#)
 Motif name: Arid3a_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0323368

Alignment:

DHHYTTTAATTAAHBBV
 TWSTTTWAWTTTWT---

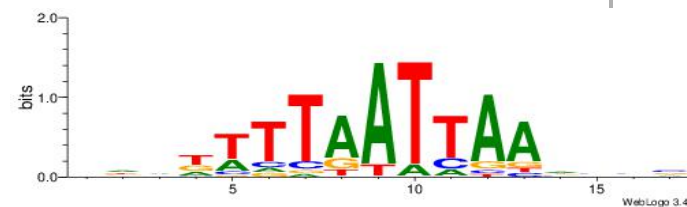
Original motif

Consensus sequence: VBBHTTAATTAAAMHHH



Reverse complement motif

Consensus sequence: DHHYTTTAATTAAHBBV



Motif ID: [UP00004](#)
 Motif name: Sox14_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

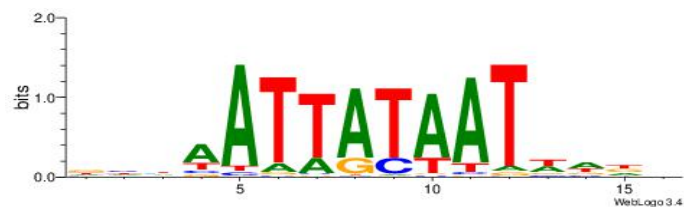
Number of overlap: 14
Similarity score: 0.0327495

Alignment:

DDDWATTATAATTHDH
--TWSTTTWAWTTTWT

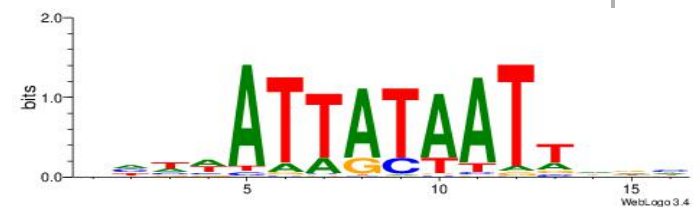
Original motif

Consensus sequence: DHHAATTATAATWDDH



Reverse complement motif

Consensus sequence: DDDWATTATAATTHDH



Motif ID: [UP00180](#)
Motif name: Hoxd13
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0332268

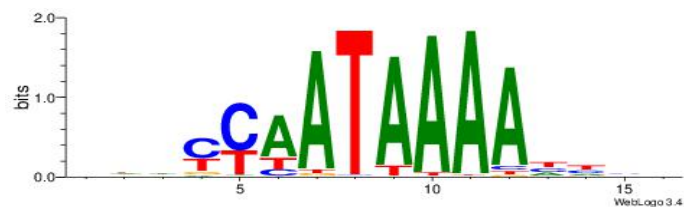
Alignment:

HDHHTTTTATTKKHDD
-TWSTTTWAWTTTWT-

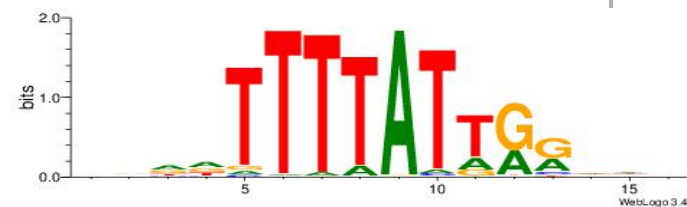
Original motif

Reverse complement motif

Consensus sequence: HDHYAATAAAHHHH



Consensus sequence: HDHHTTTTATTKKHDD



Motif ID: [UP00097](#)
Motif name: Mtf1_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.034592

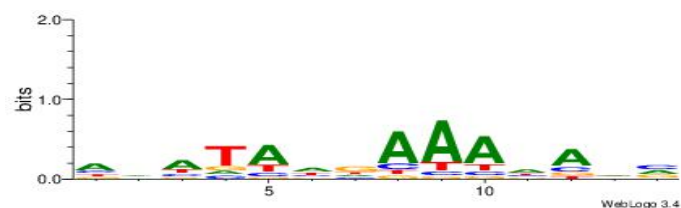
Alignment:

HDATAHDAAAHADV

AWAAAWTWAAASWA

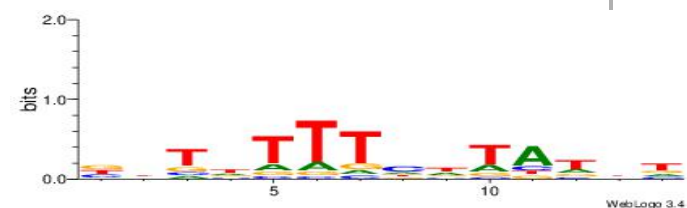
Original motif

Consensus sequence: HDATAHDAAAHADV



Reverse complement motif

Consensus sequence: VDTHTTTHTATDH



Dataset #: 2

Motif ID: 4

Motif name: Motif 4

Original motif

Consensus sequence: AAAAWTTRCWT



Reverse complement motif

Consensus sequence: AWGKAAWTTTT



Best Matches for Motif ID 4 (Highest to Lowest)

Motif ID:	UP00044
Motif name:	Mafk_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.022187

Alignment:

VHAAAAADTGCAHBR

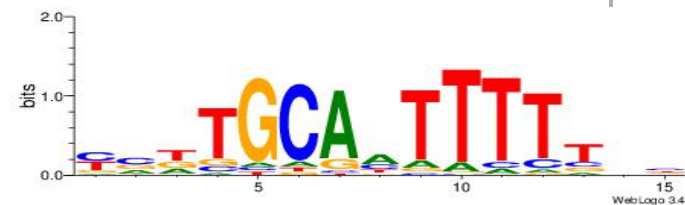
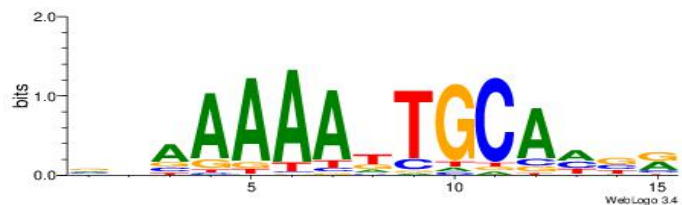
--AAAWTTRCWT--

Original motif

Consensus sequence: VHAAAAADTGCAHBR

Reverse complement motif

Consensus sequence: MBHTGCADTTTTTHV

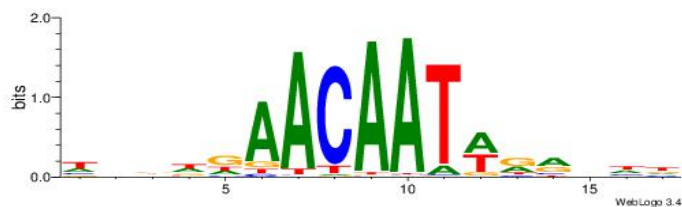


Motif ID: [UP00075](#)
 Motif name: Sox15_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0318877

Alignment:
 DHVKMWATTGTTHDHDH
 AWGKAATTTT-----

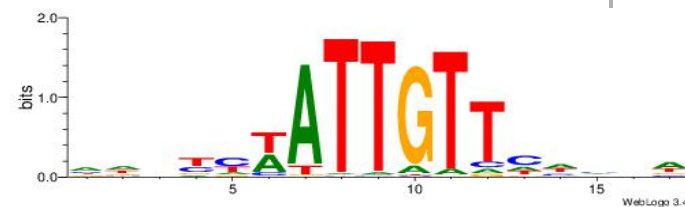
Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



Motif ID: [UP00091](#)

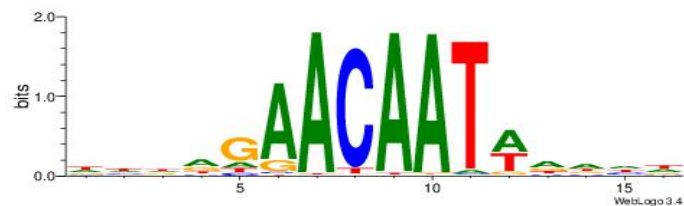
Motif name: Sox5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0333897

Alignment:

DHDDWATTGTTTCDDHD
 AWGKAATTTT-----

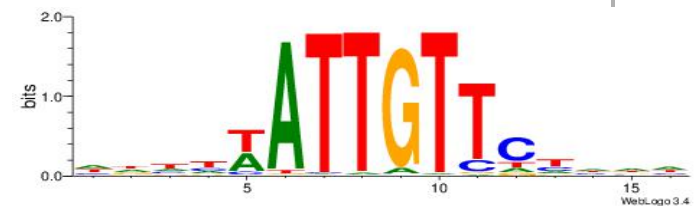
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTTCDDHD



Motif ID: [UP00014](#)
 Motif name: Sox17_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11

Similarity score: 0.0352391

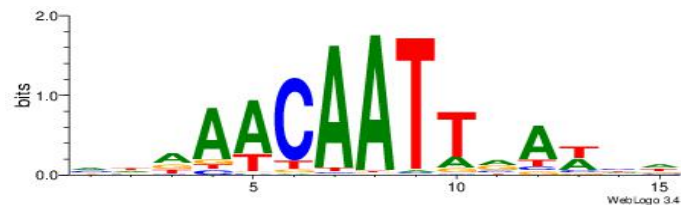
Alignment:

DDWTBAATTGTTDDB

-AWGKAAWTTTT---

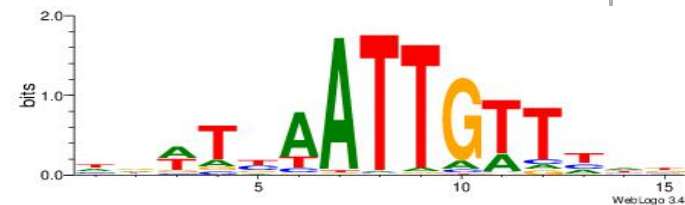
Original motif

Consensus sequence: VDDAACAATTVAWHD



Reverse complement motif

Consensus sequence: DDWTBAATTGTTDDB



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: 1
Number of overlap: 11
Similarity score: 0.0357052

Alignment:

HBDTAATTGTTABBV

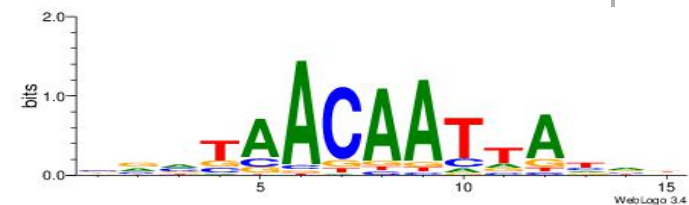
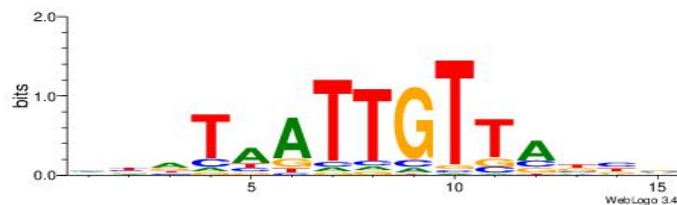
AWGKAAWTTTT---

Original motif

Consensus sequence: HBDTAATTGTTABBV

Reverse complement motif

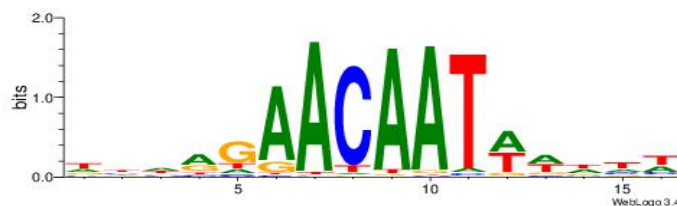
Consensus sequence: VBVTAACAATTADVD



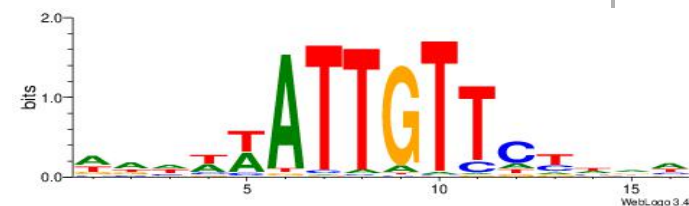
Motif ID: [UP00096](#)
 Motif name: Sox13_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0361647

Alignment:
 WHDWWATTGTTCKDHD
 AWGKAATTTT-----

Original motif
 Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif
 Consensus sequence: WHDWWATTGTTCKDHD



Motif ID: [UP00126](#)
 Motif name: Dlx2

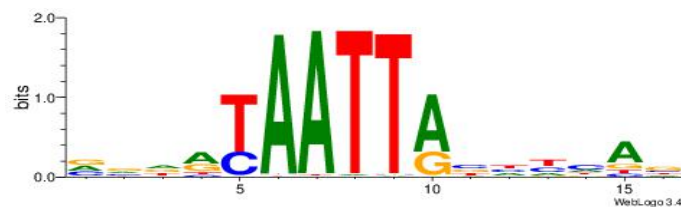
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0370352

Alignment:

VVDRTAATTABHHHAB
 --AAAWTTTCWT---

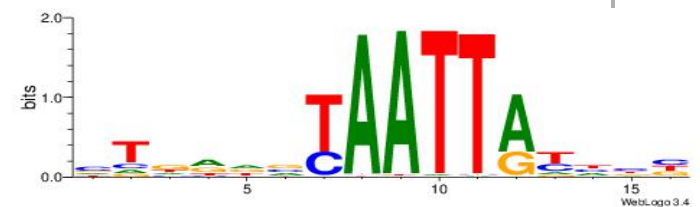
Original motif

Consensus sequence: VVDRTAATTABHHHAB



Reverse complement motif

Consensus sequence: BTDHHBTAAATKDVV



Motif ID: [UP00074](#)
 Motif name: Isgf3g_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0371842

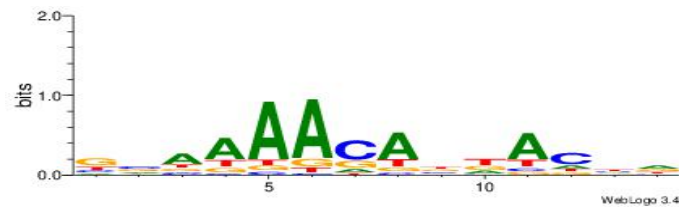
Alignment:

BVAAAACABDACHD

---AAAWTTTCWT

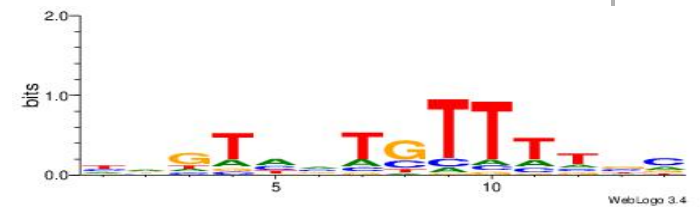
Original motif

Consensus sequence: BVAAAACABDACHD



Reverse complement motif

Consensus sequence: DHGTDVTGTTTTVB



Motif ID:	UP00170
Motif name:	Isl2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0377846

Alignment:

HWDTTAATYKMTTHHR

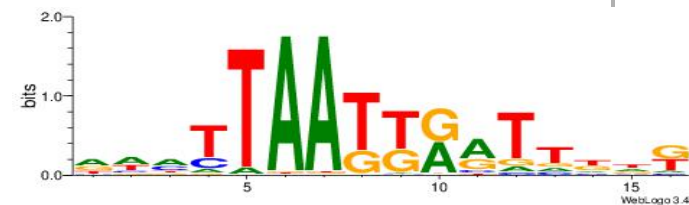
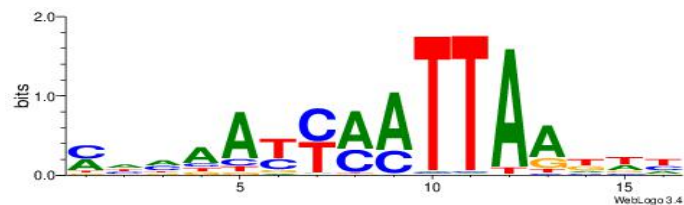
-AWGKAAWTTTT----

Original motif

Consensus sequence: MHHAAYMATTAADWH

Reverse complement motif

Consensus sequence: HWDTTAATYKMTTHHR

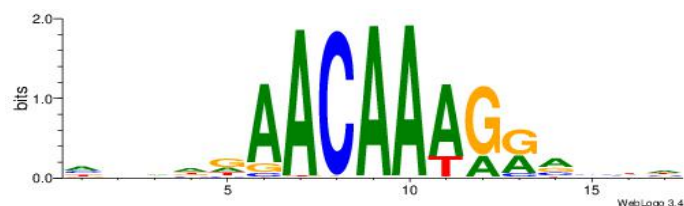


Motif ID: [UP00062](#)
 Motif name: Sox4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0386497

Alignment:
 HHBBMCTTTGTTHDDBH
 AWGKAATTTT-----

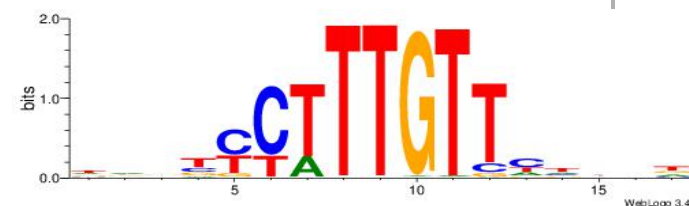
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

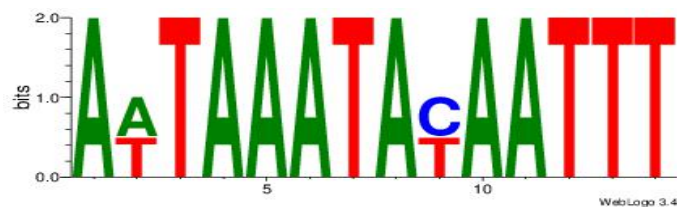
Consensus sequence: HHBBMCTTTGTTHDDBH



Dataset #: 2 **Motif ID: 5** **Motif name: Motif 5**

Original motif

Consensus sequence: AWTAAATAYAATTT



Reverse complement motif

Consensus sequence: AAATTKTATTTAWT



Best Matches for Motif ID 5 (Highest to Lowest)

Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0258732

Alignment:

HDDDATTTTATTKVRDB

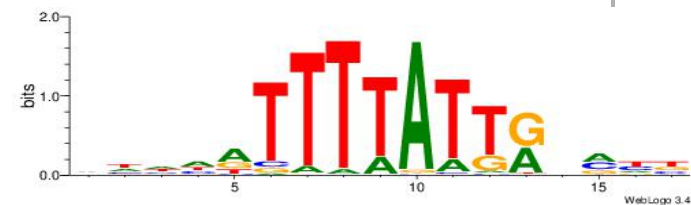
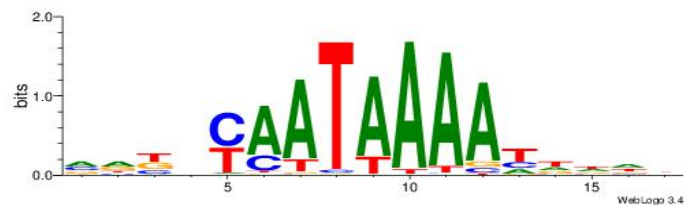
--AAATTKTATTTAWT--

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

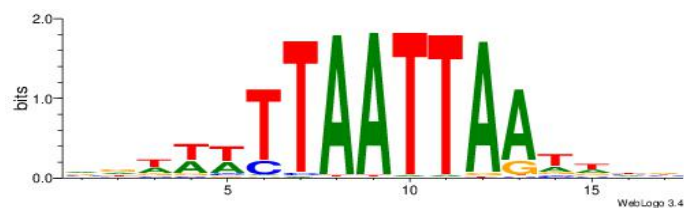


Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0275967

Alignment:
 VDWWTTAATTAATDHB
 AAATTKTATTTAWT---

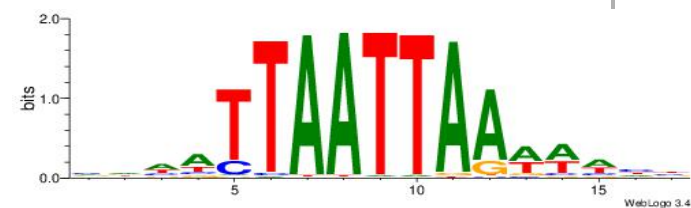
Original motif

Consensus sequence: VDWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00212](#)

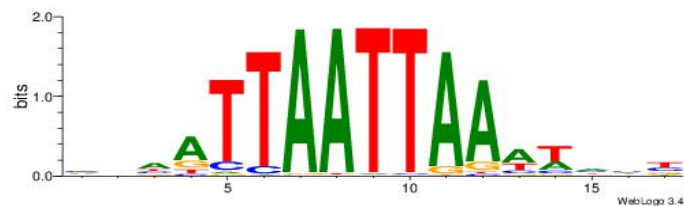
Motif name: Lhx5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0276125

Alignment:

VDHWTTTAATTAATHHV
 AAATTKTATTTAWT---

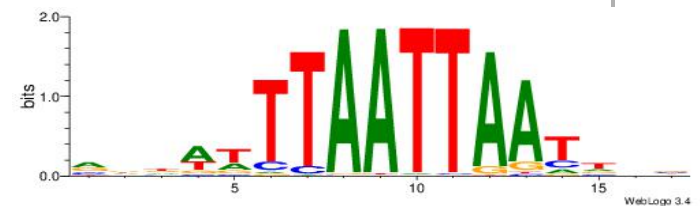
Original motif

Consensus sequence: VDHATTAATTAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAATTAATHHV



Motif ID: [UP00016](#)
 Motif name: Sry_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14

Similarity score: 0.027741

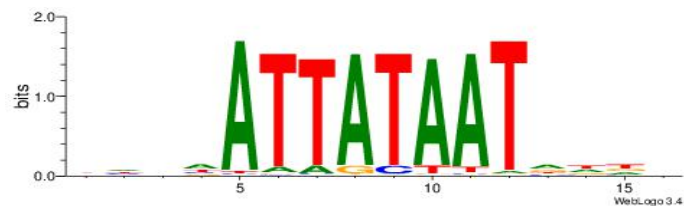
Alignment:

BHDHATTATAATDDDDV

AWTAAATAYAATTT--

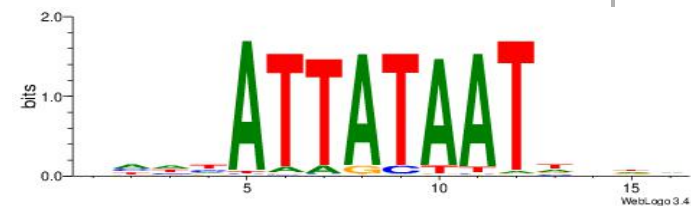
Original motif

Consensus sequence: BHDHATTATAATDDDDV



Reverse complement motif

Consensus sequence: VDDDATATAATHDHV



Motif ID: [UP00180](#)

Motif name: Hoxd13

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 2

Number of overlap: 14

Similarity score: 0.0290926

Alignment:

HDHHTTTTATTKKHDD

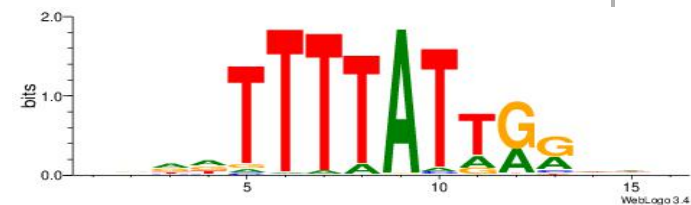
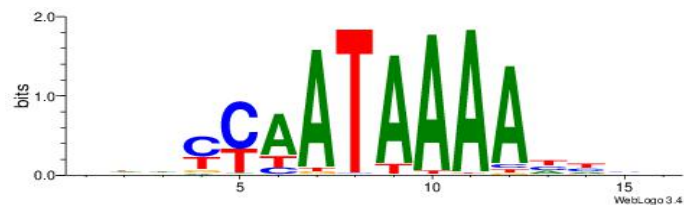
-AAATTKTATTTAWT-

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

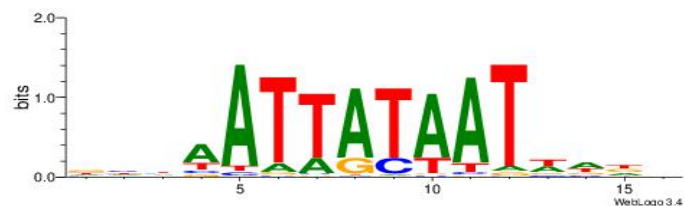


Motif ID: [UP00004](#)
 Motif name: Sox14_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.029483

Alignment:
 DHHAATTATAATWDDH
 AWTAAATAYAATTT--

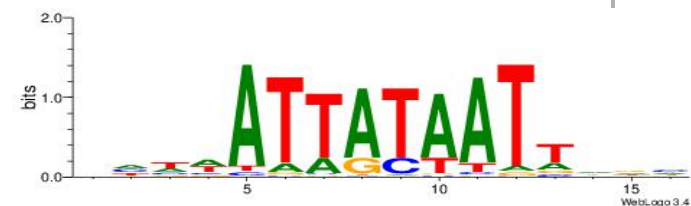
Original motif

Consensus sequence: DHHAATTATAATWDDH



Reverse complement motif

Consensus sequence: DDDWATTATAATTHDH



Motif ID: [UP00130](#)
 Motif name: Lhx3

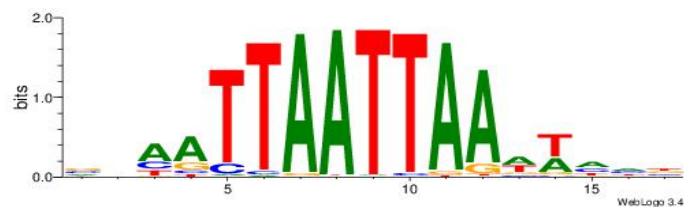
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.029893

Alignment:

VHHWWTTAATTAATTDV
 AAATTKTATTTAWT---

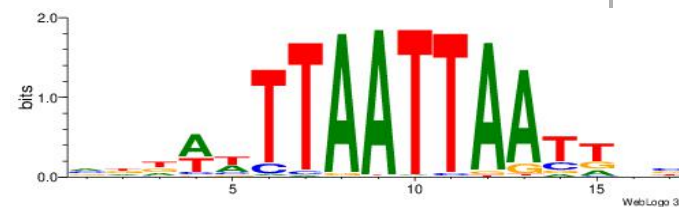
Original motif

Consensus sequence: VDAATTAATTAAWWHB



Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV



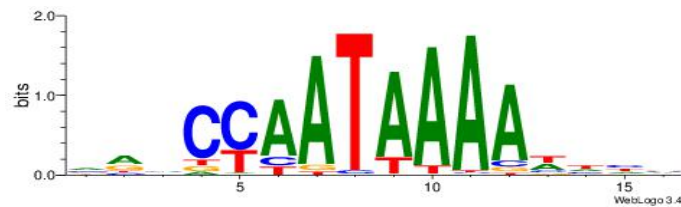
Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.030701

Alignment:

VDHWTTTATTGGDKB
-AAATTKTATTTAWT-

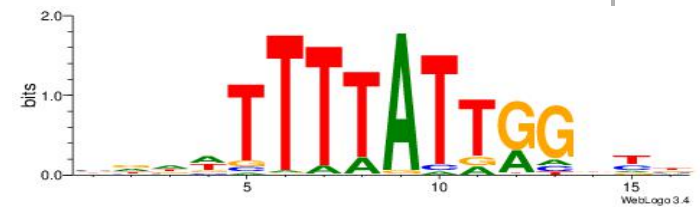
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTATTGGDKB



Motif ID:	UP00266
Motif name:	Prrx1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0314917

Alignment:

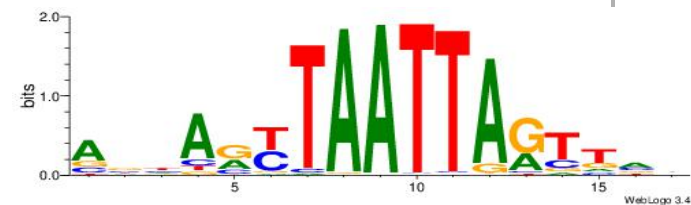
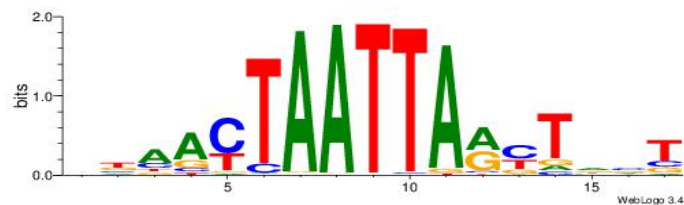
AVDAKKTAATTAGTTVV
AAATTKTATTTAWT---

Original motif

Consensus sequence: VBAACTAATTARYTDVT

Reverse complement motif

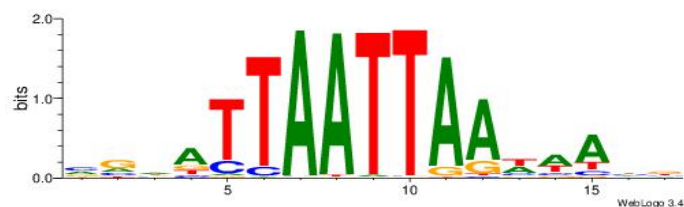
Consensus sequence: AVDAKKTAATTAGTTVV



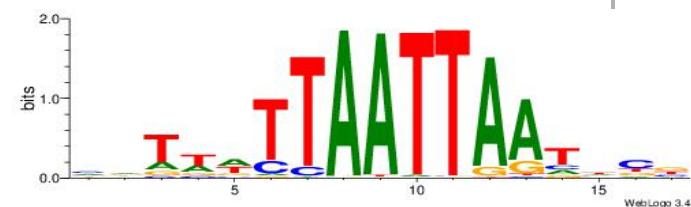
Motif ID: [UP00262](#)
 Motif name: Lhx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0319088

Alignment:
 BHTWWTTAATTAATDVV
 AAATTKTATTTAWT---

Original motif
 Consensus sequence: VVDATTAATTAAWWAHB



Reverse complement motif
 Consensus sequence: BHTWWTTAATTAATDVV



Dataset #: 2 Motif ID: 6 Motif name: Motif 6

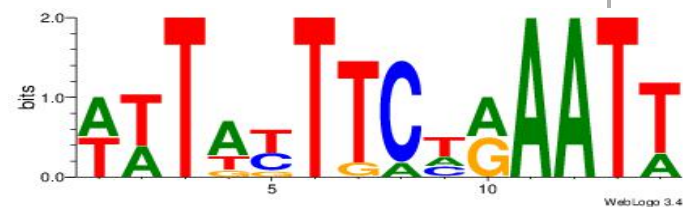
Original motif

Consensus sequence: AATTYDGAARTAWW



Reverse complement motif

Consensus sequence: WWTAKTTCDKAATT



Best Matches for Motif ID 6 (Highest to Lowest)

Motif ID:	UP00015
Motif name:	Ehf_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0435331

Alignment:

WDSHTYGGAAVTDVDW

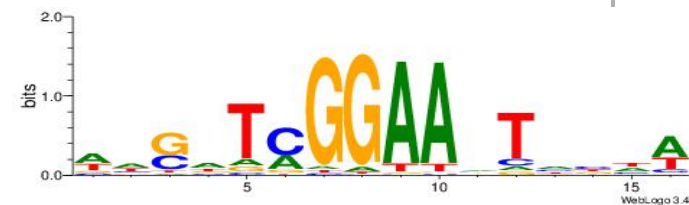
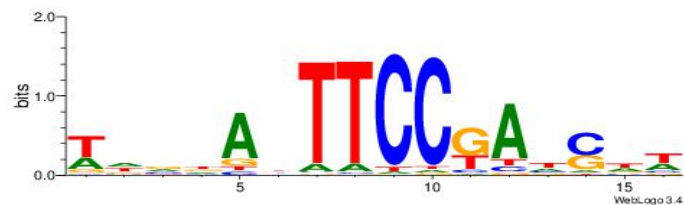
-AATTYDGAARTAWW-

Original motif

Consensus sequence: WDVDABTTCKAHSDW

Reverse complement motif

Consensus sequence: WDSHTYGGAAVTDVDW

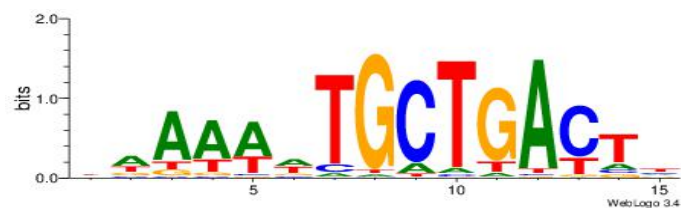


Motif ID: [UP00044](#)
 Motif name: Mafk_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0443465

Alignment:
 HAGTCAGCAWTTTWD
 AATTYDGAARTAWW-

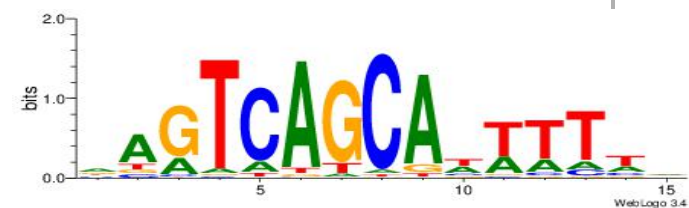
Original motif

Consensus sequence: DWAAAWTGCTGACTH



Reverse complement motif

Consensus sequence: HAGTCAGCAWTTTWD



Motif ID: [UP00061](#)

Motif name:	Foxl1_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0477209

Alignment:

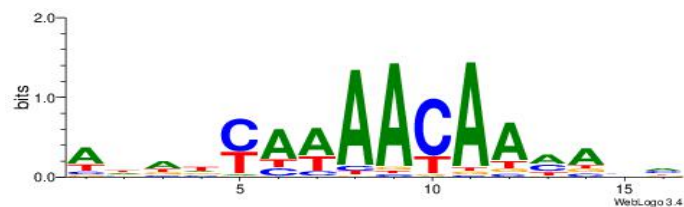
```

HDTYTTGTTWTKDDDT
--WWTAKTTCDKAATT

```

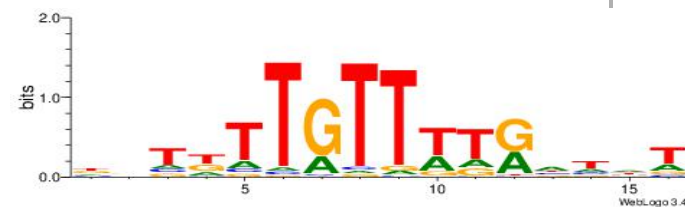
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



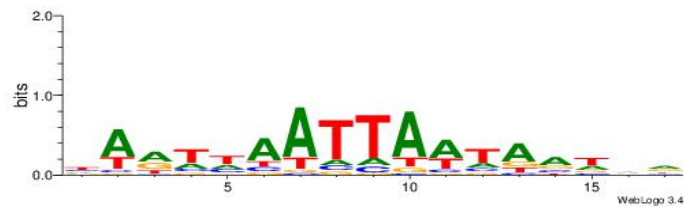
Motif ID:	UP00255
Motif name:	Dbx1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0481558

Alignment:

DHDBTAWTAATTHAKTH
--WWTAKTTCDKAATT--

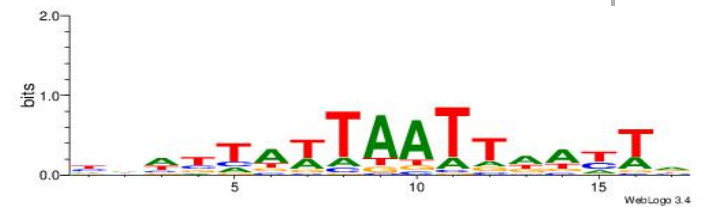
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



Motif ID:

[UP00097](#)

Motif name:

Mtf1_secondary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

Reverse Complement

Direction:

Backward

Position number:

1

Number of overlap:

14

Similarity score:

0.0495241

Alignment:

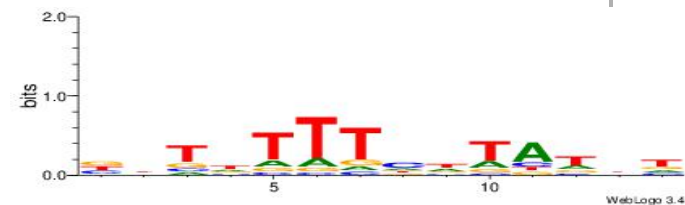
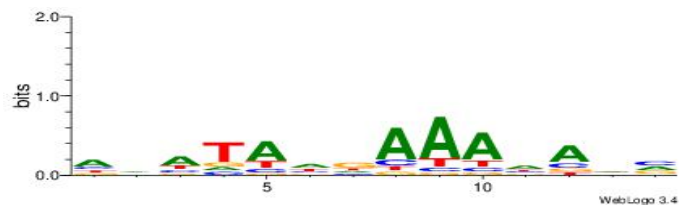
VDTHTTTHHTATDH
WWTAKTTCDKAATT

Original motif

Consensus sequence: HDATAHDAAAHADV

Reverse complement motif

Consensus sequence: VDTHTTTHHTATDH

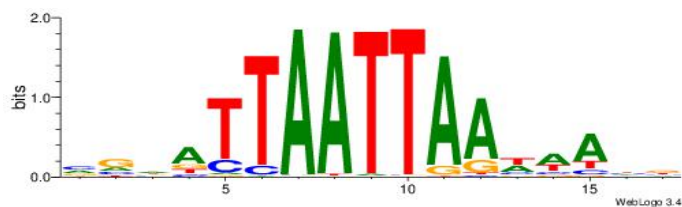


Motif ID: [UP00262](#)
 Motif name: Lhx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0497972

Alignment:
 BHTWWTTAATTAATDVV
 -WWTAKTTCDKAATT--

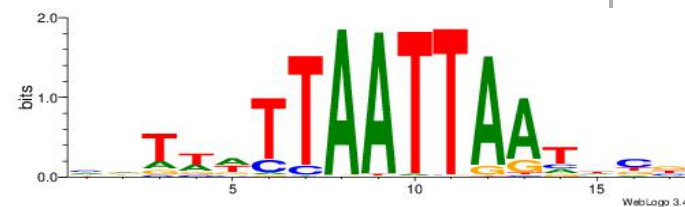
Original motif

Consensus sequence: VVDATTAATTAAWWAHB



Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV



Motif ID: [UP00034](#)

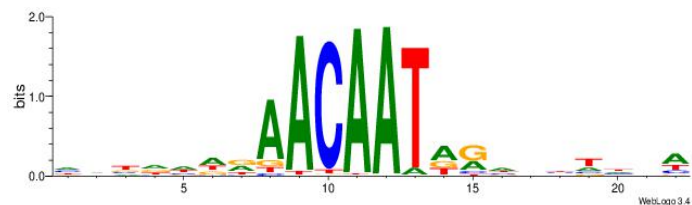
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0511395

Alignment:

WBHHHHHMDATTGTTDHDVHH
 -----WWTAKTTCDKAATT

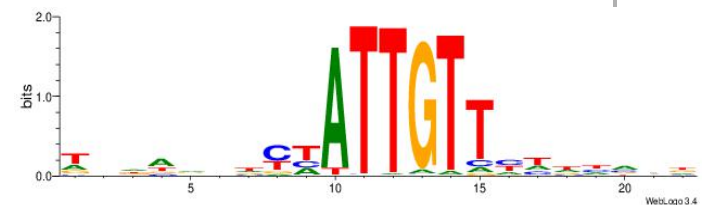
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH



Motif ID: [UP00045](#)
 Motif name: Mafb_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14

Similarity score: 0.0517233

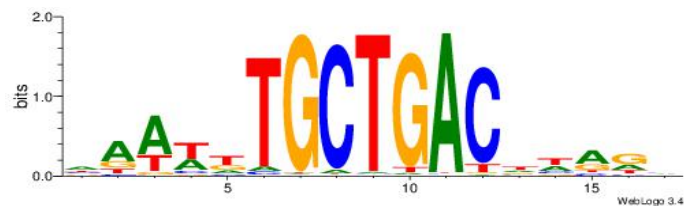
Alignment:

DMTWDGTCAGCADWTTH

---AATTYDGAARTAWW

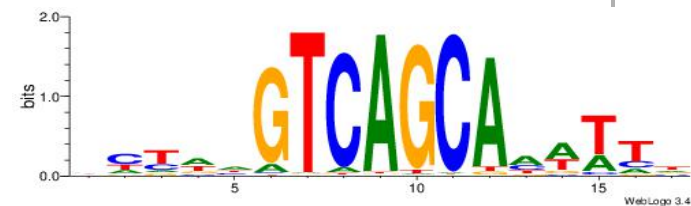
Original motif

Consensus sequence: HAAWDTGCTGACDWARH



Reverse complement motif

Consensus sequence: DMTWDGTCAGCADWTTH



Motif ID: [UP00130](#)

Motif name: Lhx3

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 2

Number of overlap: 14

Similarity score: 0.0519872

Alignment:

VHHWWTTAATTAATTDV

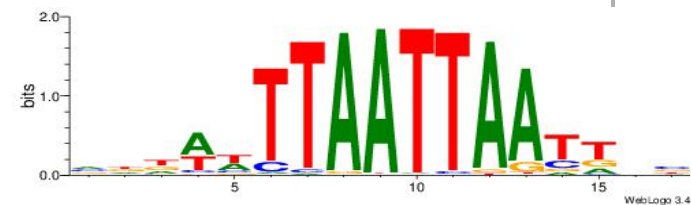
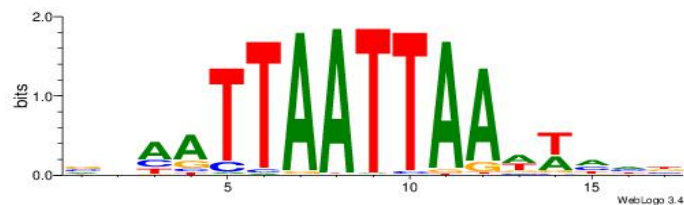
-WWTAKTTCDKAATT--

Original motif

Consensus sequence: VDAATTAATTAAWWHB

Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV

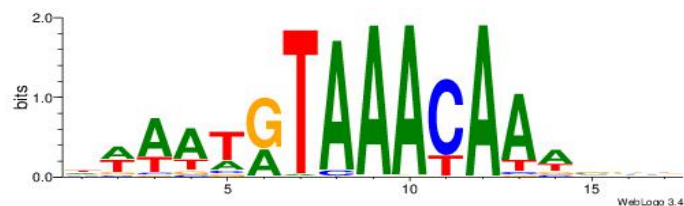


Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0521736

Alignment:
 DWAATRTAAACAAWVVB
 AATTYDGAARTAWW---

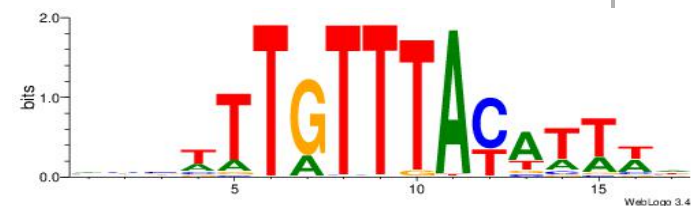
Original motif

Consensus sequence: DWAATRTAAACAAWVVB



Reverse complement motif

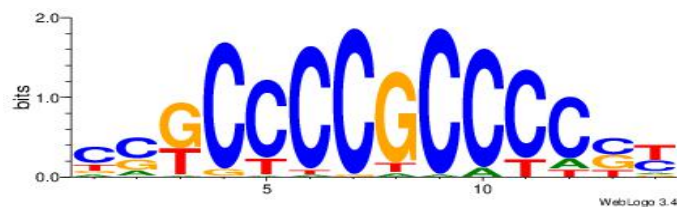
Consensus sequence: VVWTTGTTTAMATTWD



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

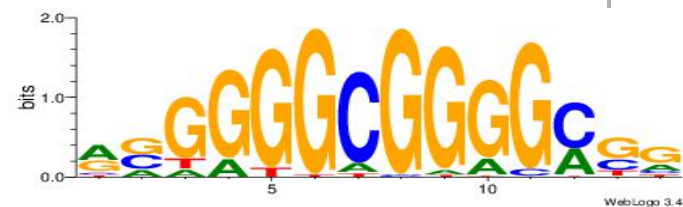
Original motif

Consensus sequence: CSKCCCCGCCCSY



Reverse complement motif

Consensus sequence: MSGGGGCGGGGYSG



Best Matches for Motif ID 7 (Highest to Lowest)

Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.000548354

Alignment:

DHHDGGGCGRGGKHBH

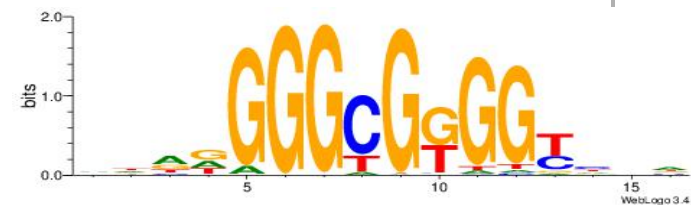
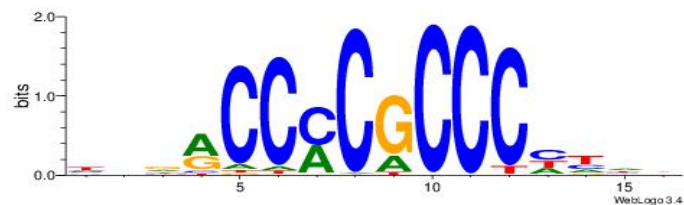
–MSGGGGCGGGGYSG–

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

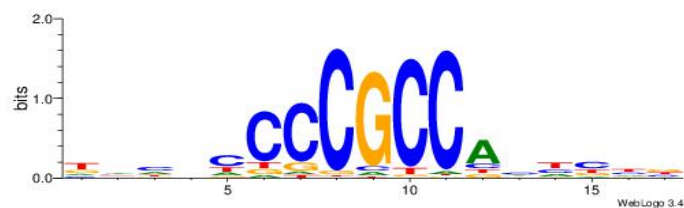


Motif ID: [UP000000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.00741351

Alignment:
 DHHBCCCCGCCAHHBHB
 -CSKCCCCGCCCSY--

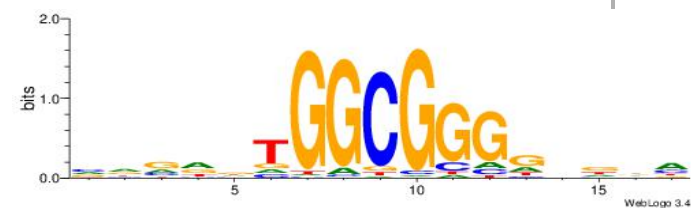
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00022](#)

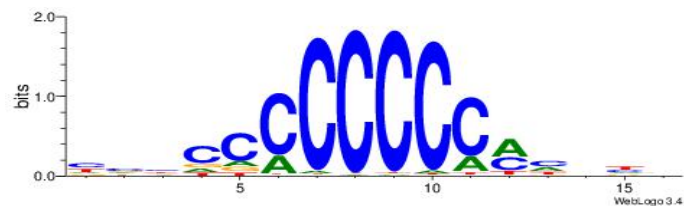
Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0114155

Alignment:

HVBCCCCCCCCMHHHB
 CSKCCCCGCCCSY--

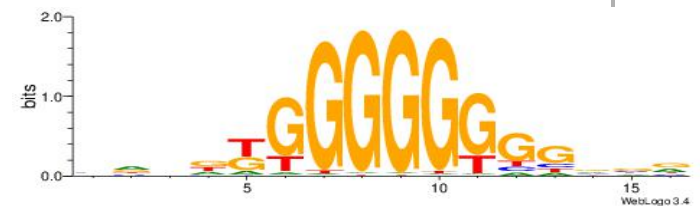
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGBVD



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: 2
 Number of overlap: 14

Similarity score: 0.0133301

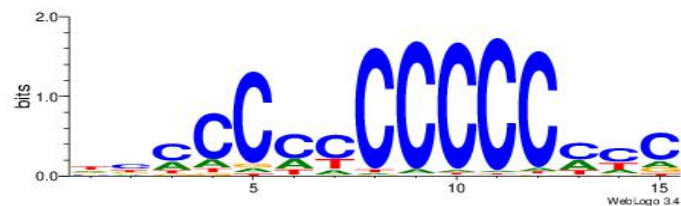
Alignment:

DBCCCCCCCCCMYC

-CSKCCCCGCCCSY

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0158143

Alignment:

HHHHDGGGGCGGDBHDV

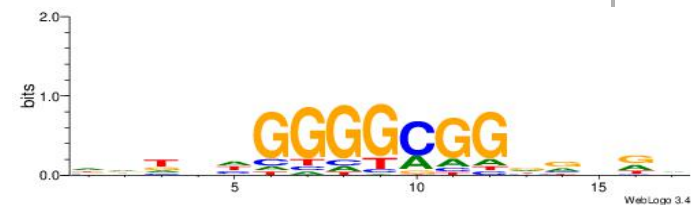
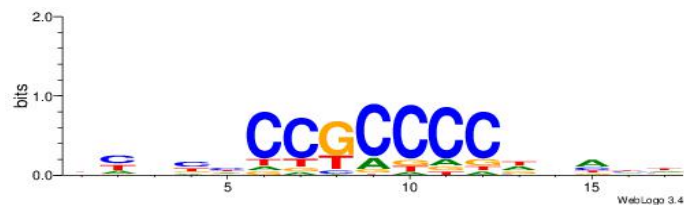
---MSGGGGCGGGYSG

Original motif

Consensus sequence: BHHBHCCGCCCDHHHH

Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



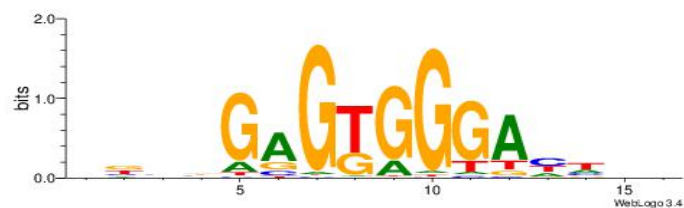
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0242521

Alignment:

BHHDTCCTCACTCBDBV
 -CSKCCCCGCCCCSY-

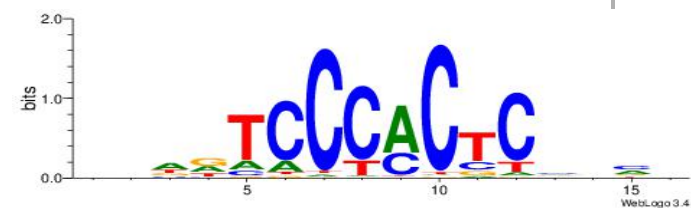
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



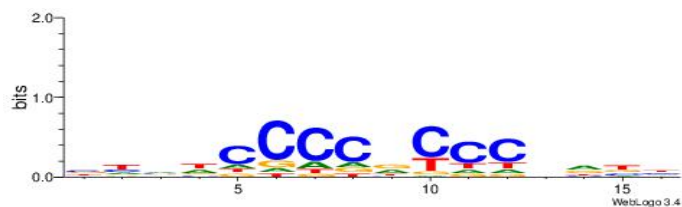
Motif ID: [UP00099](#)
 Motif name: Ascl2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0244083

Alignment:

BHVDCCCCDCCCBDBH
 -CSKCCCCGCCCSY-

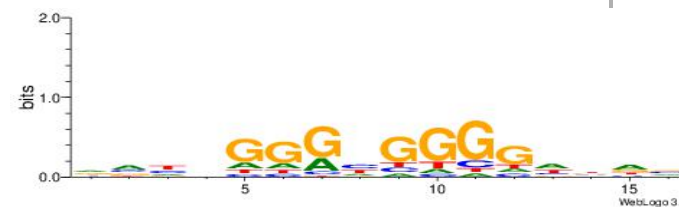
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5

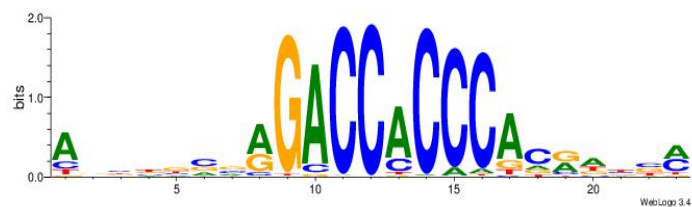
Number of overlap: 14
Similarity score: 0.0264047

Alignment:

YBVDMGTGGGTGGTCKVVBVBBT
-----MSGGGGCGGGGYSG-----

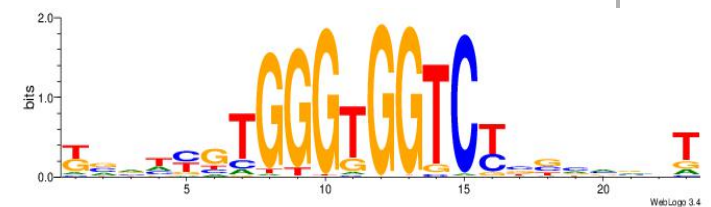
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.0276053

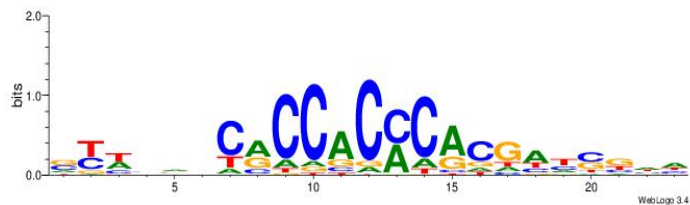
Alignment:

HHBSHTCGTGRGTGGKGDBVWMV
-----MSGGGGCGGGGYSG---

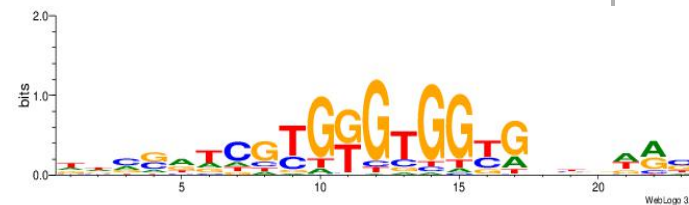
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



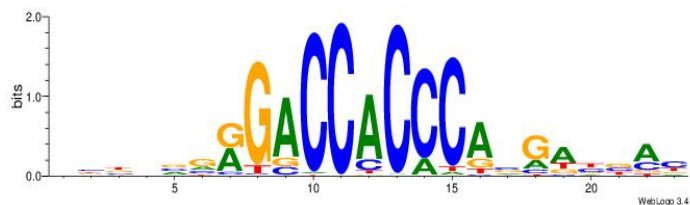
Motif ID: [UP00538](#)
Motif name: Gli1_v015681_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.0290826

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
-----MSGGGGCGGGYSG-----

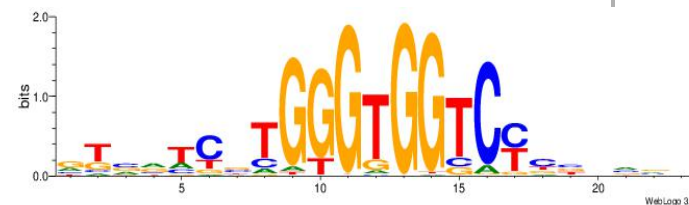
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

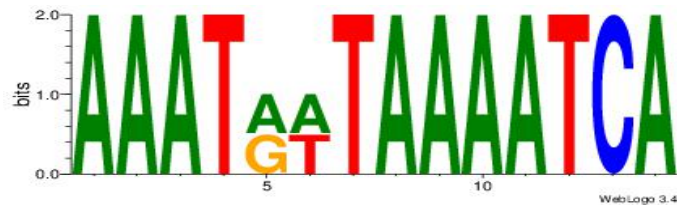
Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Dataset #: 2 **Motif ID: 8** **Motif name: Motif 8**

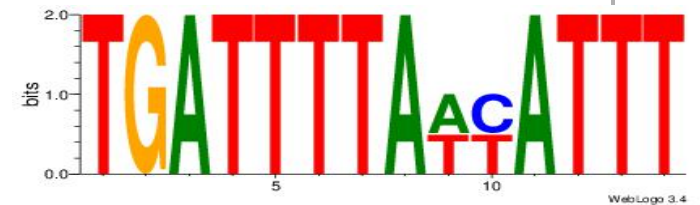
Original motif

Consensus sequence: AAATRWATAAATCA



Reverse complement motif

Consensus sequence: TGATTTTAWKATTT



Best Matches for Motif ID 8 (Highest to Lowest)

Motif ID:	UP00173
Motif name:	Hoxc13
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:	14
Similarity score:	0.0325737

Alignment:

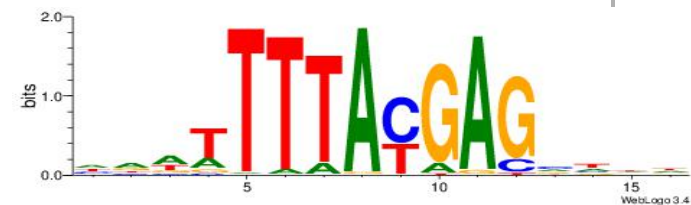
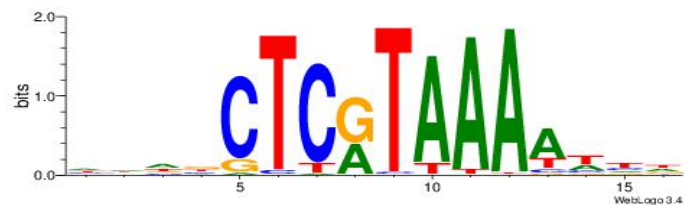
```
DHWTTTAMGAGBDHH
TGATTTTAWKATTT--
```

Original motif

Consensus sequence: HHDBCTCRTAAAWHD

Reverse complement motif

Consensus sequence: DHWTTTAMGAGBDHH

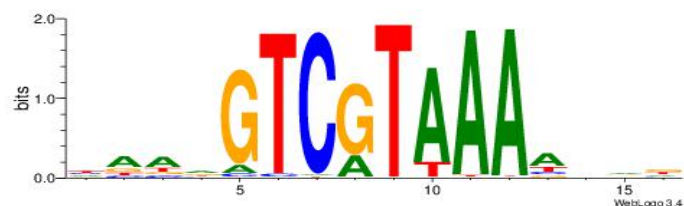


Motif ID: [UP00235](#)
 Motif name: Hoxc11
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.036026

Alignment:
 HDHTTTTACGACDTTH
 TGATTTTAWKATTT--

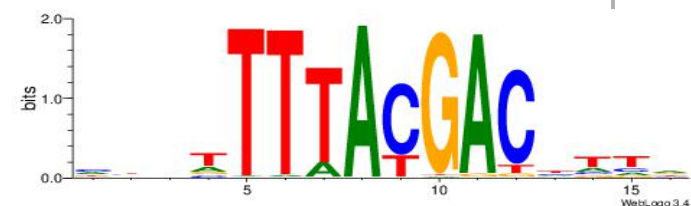
Original motif

Consensus sequence: HAADGTCGTAAAHDD



Reverse complement motif

Consensus sequence: HDHTTTTACGACDTTH



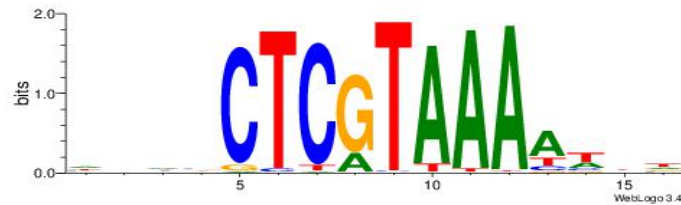
Motif ID: [UP00183](#)

Motif name: Hoxa13
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0380573

Alignment:
DVWTTTTACGAGBHDH
TGATTTTAWKATTT--

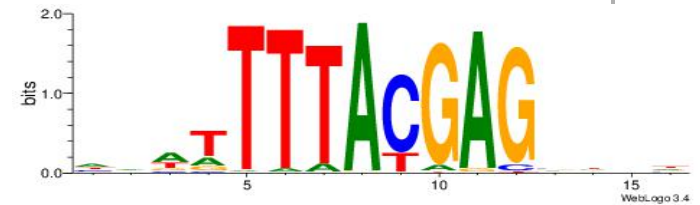
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTTACGAGBHDH



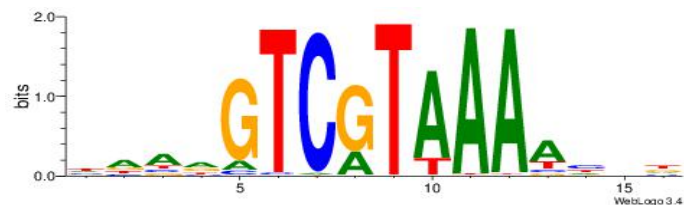
Motif ID: [UP00246](#)
Motif name: Hoxa11
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.039136

Alignment:

DDDTTTTACGACDTH
TGATTTTAWKATTT--

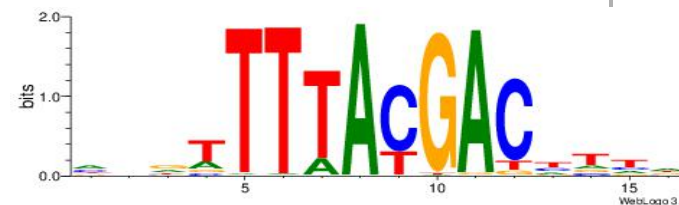
Original motif

Consensus sequence: HDADGTCGTAAAAHDD



Reverse complement motif

Consensus sequence: DDDTTTACGACDTH



Motif ID:	UP00180
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0391372

Alignment:

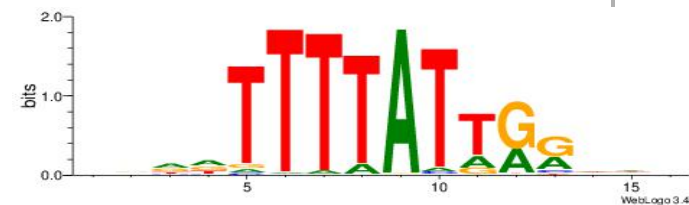
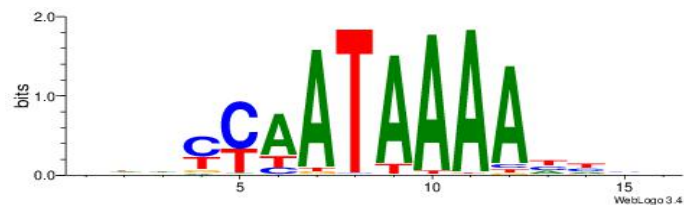
HDHYAATAAAHHHH
-AAATRWTAATAATCA-

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

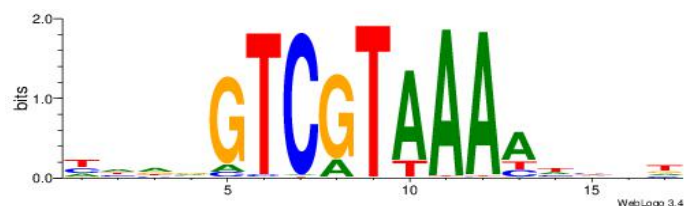


Motif ID: [UP00117](#)
 Motif name: Hoxd11
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.039319

Alignment:
 DDDHTTTTACGACVDHH
 -TGATTTTAWKATTT--

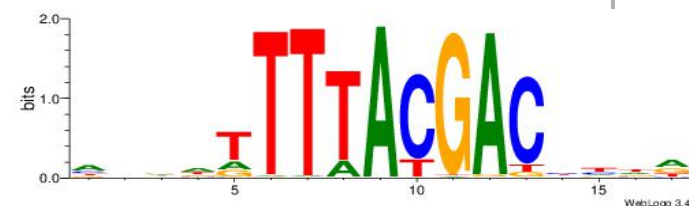
Original motif

Consensus sequence: HHDVGTCGTAAAHHHD



Reverse complement motif

Consensus sequence: DDDHTTTTACGACVDHH



Motif ID: [UP00207](#)

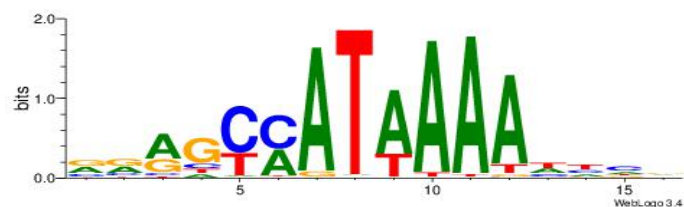
Motif name:	Hoxb9
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0397774

Alignment:

```
VRRGCMATAAAHHHD
-AAATRWTAATAATCA-
```

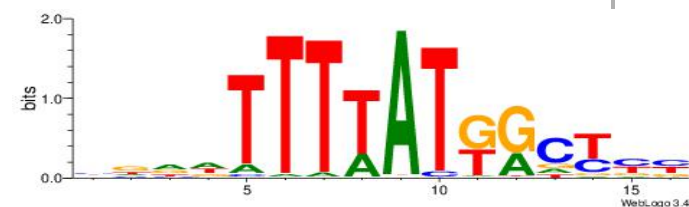
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.0397808

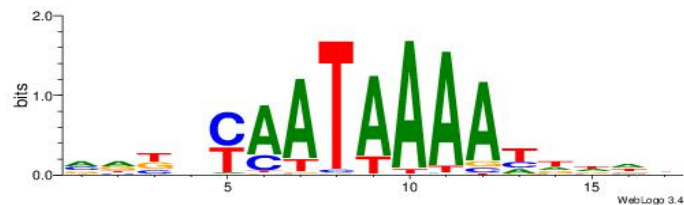
Alignment:

VDKVYAATAAAATDDDH

-AAATRWATAAAATCA--

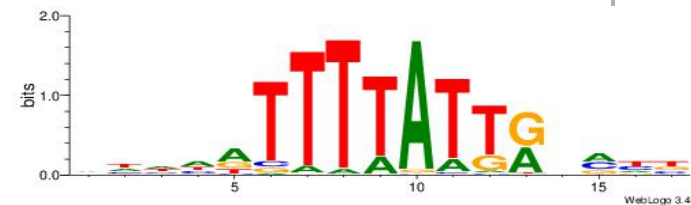
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00177](#)

Motif name: Hoxd12

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: 14

Similarity score: 0.0400538

Alignment:

DHDHTTTTACGACVDHD

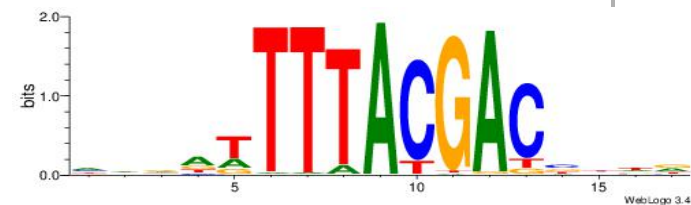
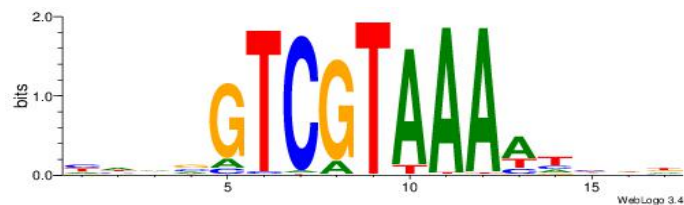
-TGATTTTAWKATTT--

Original motif

Consensus sequence: HHDVGTCGTAAAHHHD

Reverse complement motif

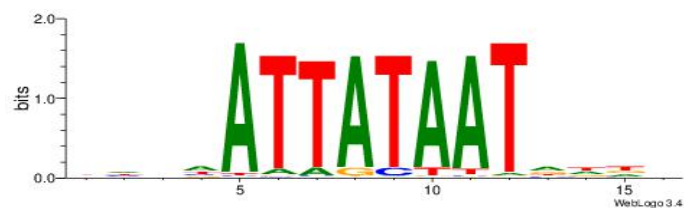
Consensus sequence: DHDHTTTTACGACVDHD



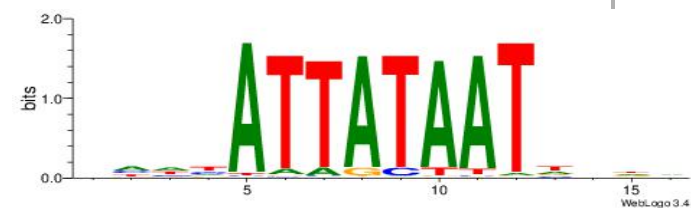
Motif ID: [UP00016](#)
 Motif name: Sry_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0409601

Alignment:
 VDDDATATAATHDHV
 AAATRWTAATCA--

Original motif
 Consensus sequence: BHDHATTATAATDDDV



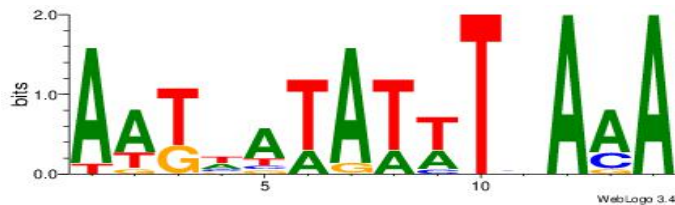
Reverse complement motif
 Consensus sequence: VDDDATATAATHDHV



Dataset #: 2 **Motif ID: 9** **Motif name: Motif 9**

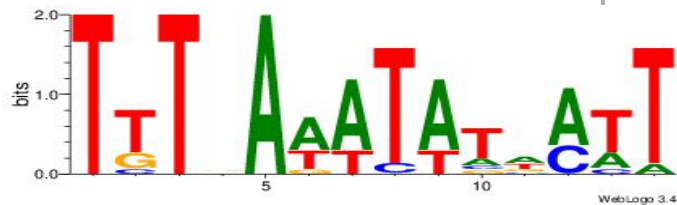
Original motif

Consensus sequence: AATHATATWTHAAA



Reverse complement motif

Consensus sequence: TTTDAWATATHATT



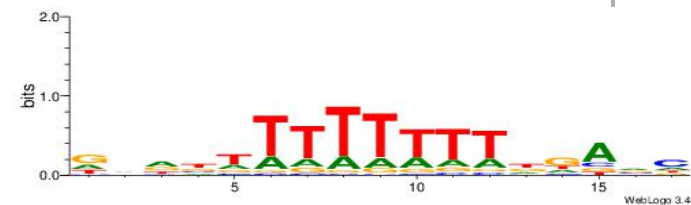
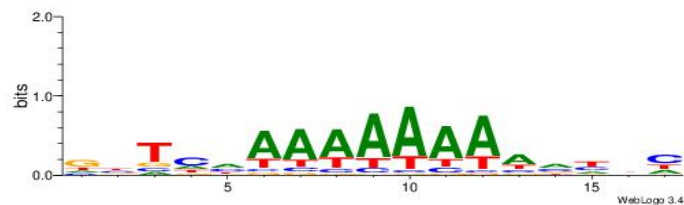
Best Matches for Motif ID 9 (Highest to Lowest)

Motif ID:	UP00090
Motif name:	Elf3_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0521335

Alignment:
DBTHHAAAAAAAAAVVDH
--TTTDAWATATHATT--

Original motif
Consensus sequence: DBTHHAAAAAAAAAVVDH

Reverse complement motif
Consensus sequence: DDHBTTTTTTTTTHDAVH

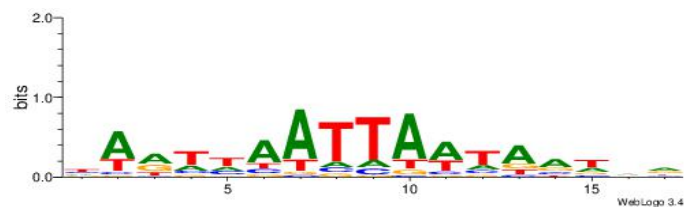


Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0522843

Alignment:
 DHDBTAWTAATTHAKTH
 --TTTDAWATATHATT--

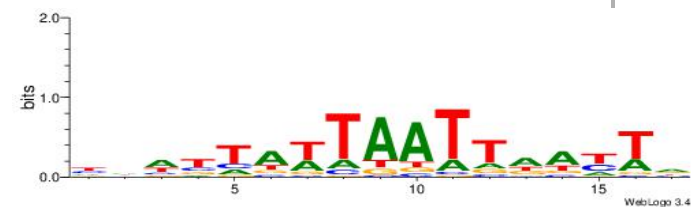
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



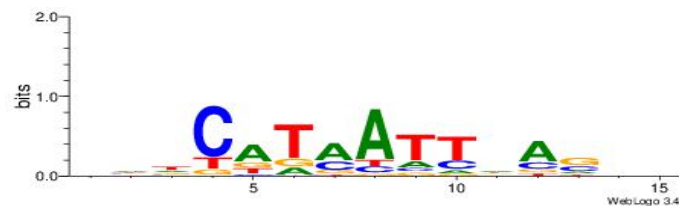
Motif ID: [UP00091](#)

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: 2
 Number of overlap: 14
 Similarity score: 0.0548459

Alignment:
 DHDCATMATTDASDD
 AATHATATWTHAAA-

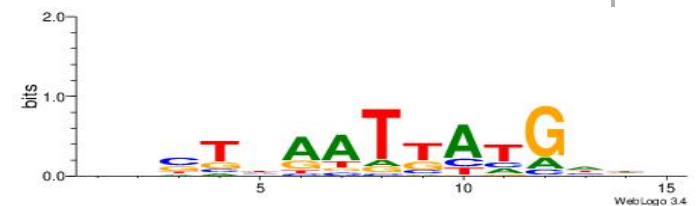
Original motif

Consensus sequence: DHDCATMATTDASDD



Reverse complement motif

Consensus sequence: DHSTDAATYATGDHD



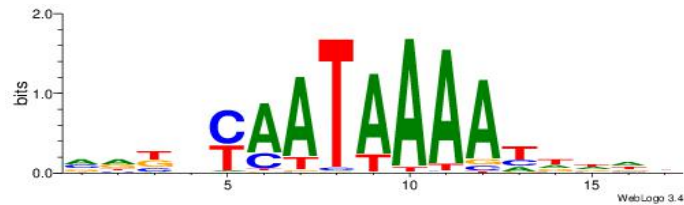
Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0549685

Alignment:

VDKVYAATAAAATDDDH
---AATHATATWTHAAA

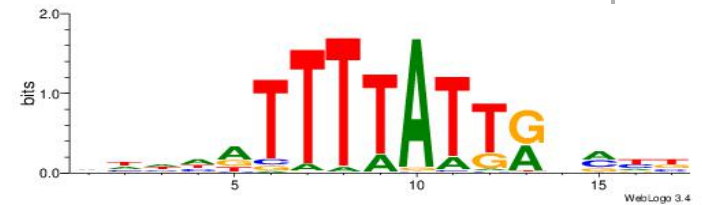
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID:	UP00078
Motif name:	Arid3a_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:	14
Similarity score:	0.0553164

Alignment:

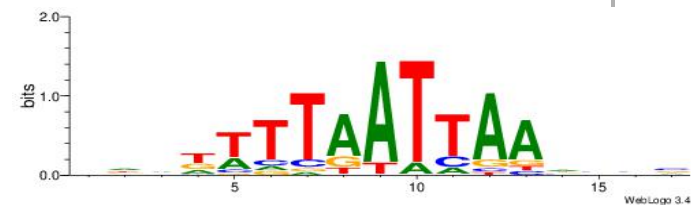
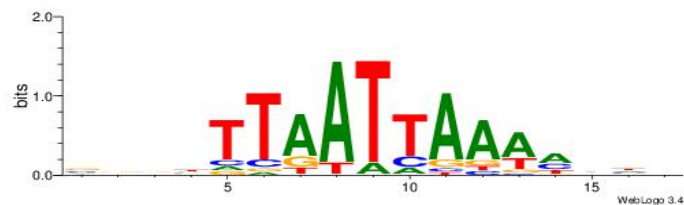
VBBHTTAATTAAAMHHH
AATHATATWTHAAA---

Original motif

Consensus sequence: VBBHTTAATTAAAMHHH

Reverse complement motif

Consensus sequence: DHHYTTTAATTAAHBBV

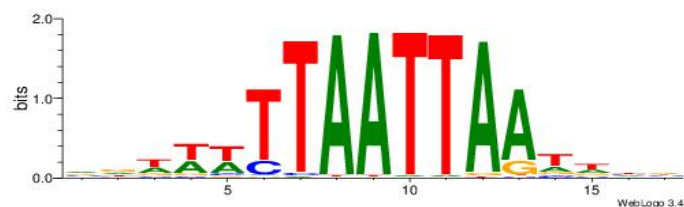


Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0554285

Alignment:
 BHDATTAATTAAWWWHB
 ---TTTDAWATATHATT

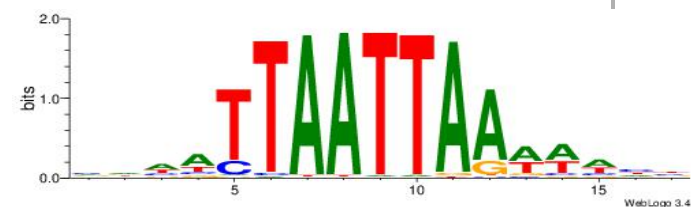
Original motif

Consensus sequence: VDWWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



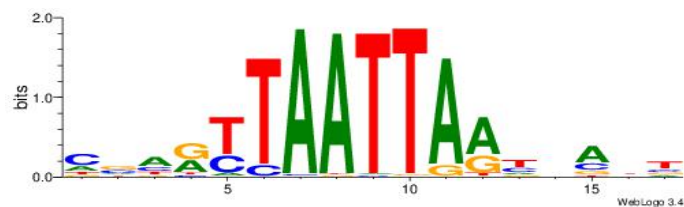
Motif ID: [UP00141](#)
 Motif name: Vsx1

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: 14
 Similarity score: 0.0554615

Alignment:
 VHTDHTTAATTAAMHVG
 AATHATATWTHAAA---

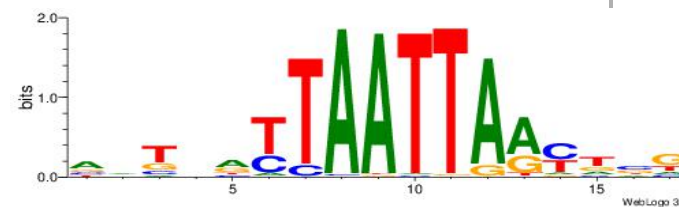
Original motif

Consensus sequence: CVHRTTAATTAHDAHB



Reverse complement motif

Consensus sequence: VHTDHTTAATTAAMHVG



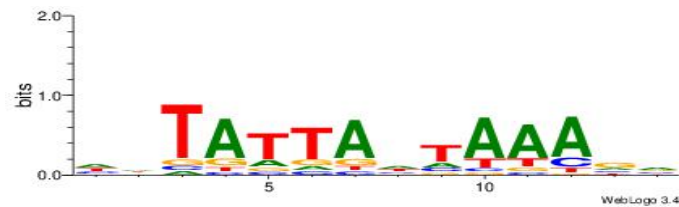
Motif ID: [UP00024](#)
 Motif name: Glis2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0558193

Alignment:

BVTTTAHTAATADH
TTTDAWATATHATT

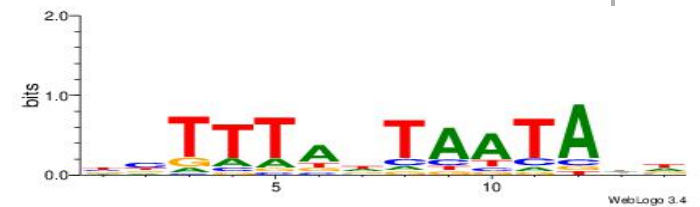
Original motif

Consensus sequence: HDTATTAHTAAVV



Reverse complement motif

Consensus sequence: BVTTTAHTAATADH



Motif ID:	UP00032
Motif name:	Gata3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0563339

Alignment:

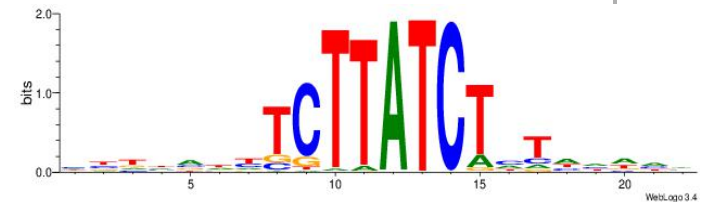
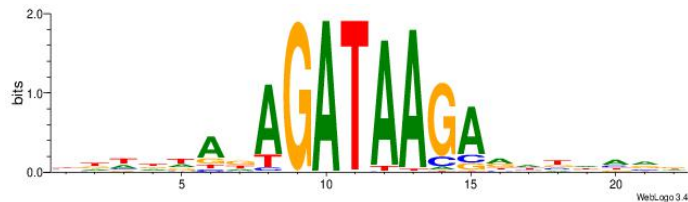
HBHDVHDTCTTATCTHTDDHDV
-----TTTDAWATATHATT-

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

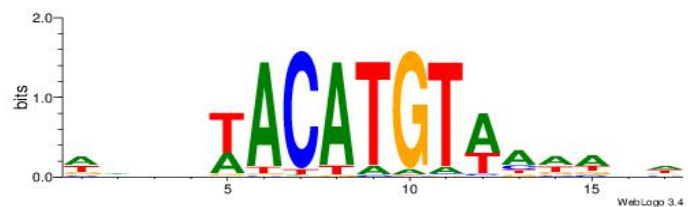
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



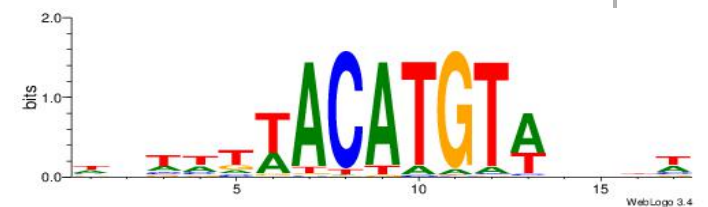
Motif ID: [UP00194](#)
 Motif name: Irx4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0570128

Alignment:
 DBTWTWACATGTWDHDW
 --TTTDAWATATHATT--

Original motif
 Consensus sequence: WDHDWACATGTWAWABD



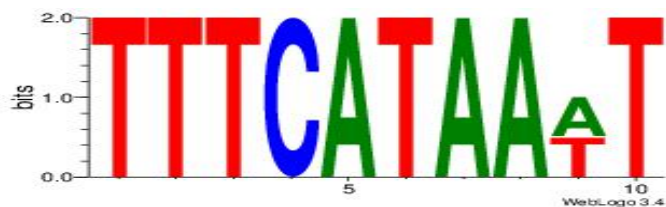
Reverse complement motif
 Consensus sequence: DBTWTWACATGTWDHDW



Dataset #: 2 Motif ID: 10 Motif name: Motif 10

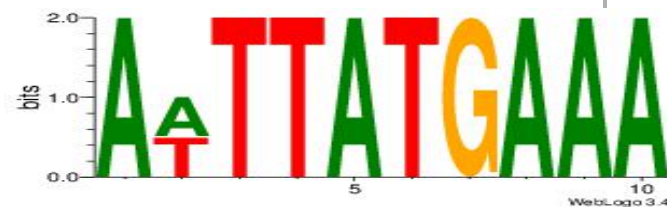
Original motif

Consensus sequence: TTTCATAAWT



Reverse complement motif

Consensus sequence: AWTTATGAAA



Best Matches for Motif ID 10 (Highest to Lowest)

Motif ID:	UP00118
Motif name:	Pou4f3
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.017789

Alignment:

GHYHTYATTAATAAVH

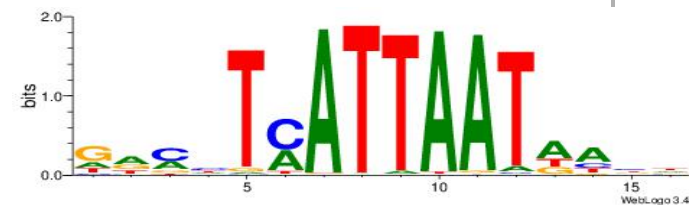
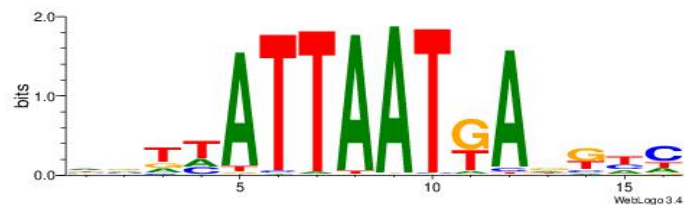
--TTTCATAAWT----

Original motif

Consensus sequence: HVTTATTAATKADKHC

Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH

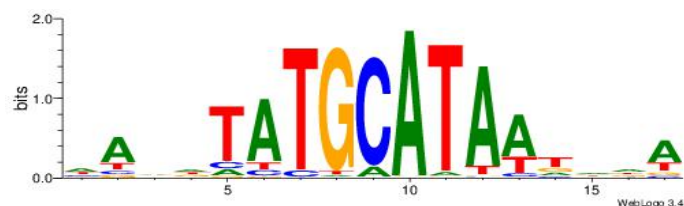


Motif ID: [UP00211](#)
 Motif name: Pou3f3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0192304

Alignment:
 HADDTATGCATAATDDA
 -----TTTCATAAWT--

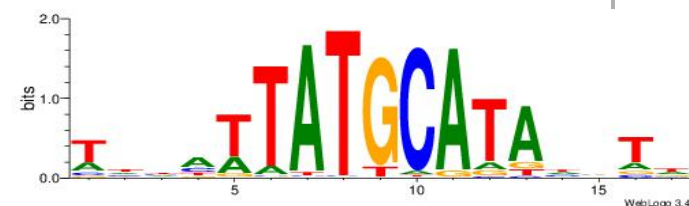
Original motif

Consensus sequence: HADDTATGCATAATDDA



Reverse complement motif

Consensus sequence: TDDATTATGCATADDTH



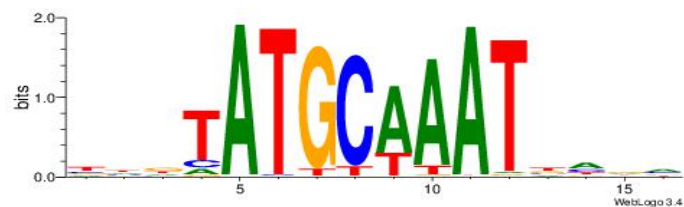
Motif ID: [UP00179](#)

Motif name:	Pou2f3
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0193076

Alignment:
BHHVATTTGCATAHHV
AWTTATGAAA-----

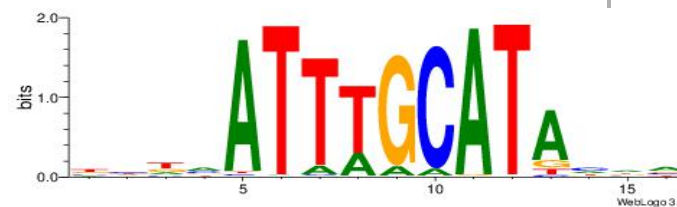
Original motif

Consensus sequence: BHDTATGCAAATBHDV



Reverse complement motif

Consensus sequence: BHHVATTTGCATAHHV



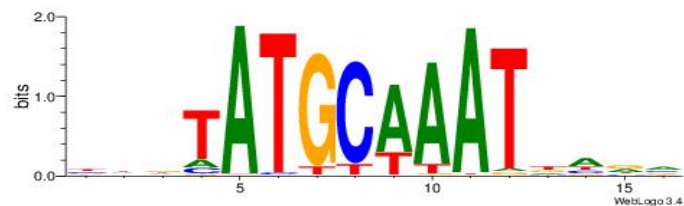
Motif ID:	UP00191
Motif name:	Pou2f2
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0200501

Alignment:

BHDTATGCAAATDHDV
 -----TTCATAAWT

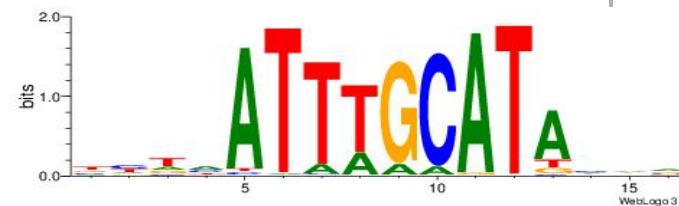
Original motif

Consensus sequence: BHDTATGCAAATDHDV



Reverse complement motif

Consensus sequence: BHHDATTTGCATAHHV



Motif ID:	UP00130
Motif name:	Lhx3
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.020314

Alignment:

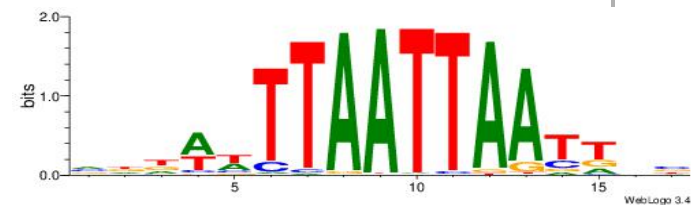
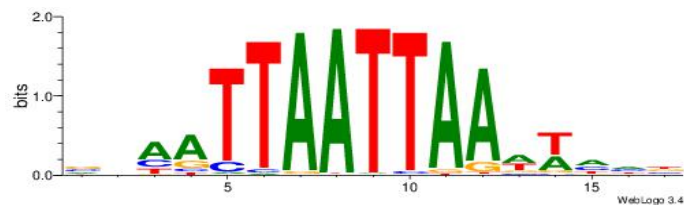
VHHWWTTAATTAATTDV
 -----TTCATAAWT---

Original motif

Consensus sequence: VDAATTAATTAAWWHB

Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV

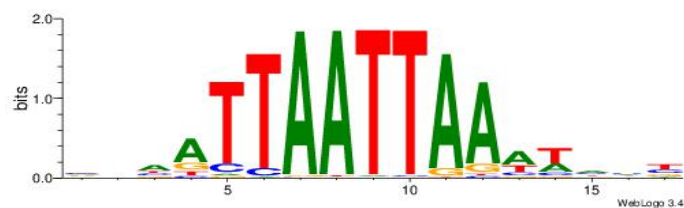


Motif ID: [UP00212](#)
 Motif name: Lhx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0203295

Alignment:
 VDHWTTTAATTAATHHV
 ----TTCATAAWT----

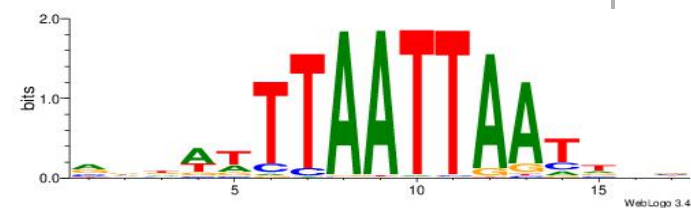
Original motif

Consensus sequence: VDHATTAATTAAAWHHB



Reverse complement motif

Consensus sequence: VDHWTTTAATTAATHHV



Motif ID: [UP00169](#)

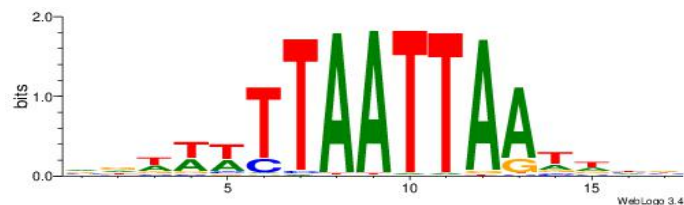
Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0232405

Alignment:

VDWWWTAAATTAATDHB
 ----TTCATAAWT---

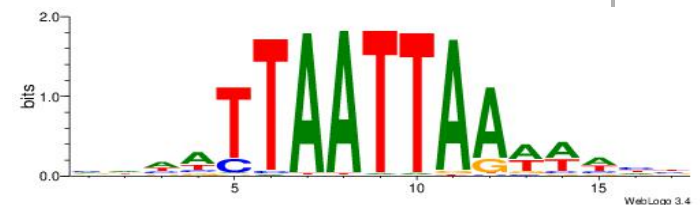
Original motif

Consensus sequence: VDWWWTAAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00045](#)
 Motif name: Mafb_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10

Similarity score: 0.0250697

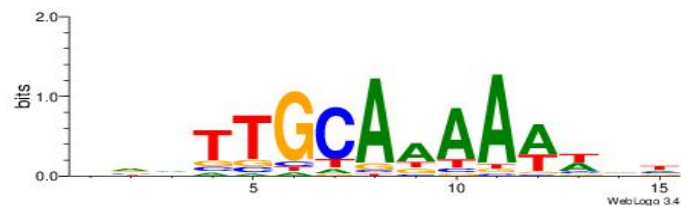
Alignment:

HVDTTGCAAAWWDH

---TTTCATAAWT--

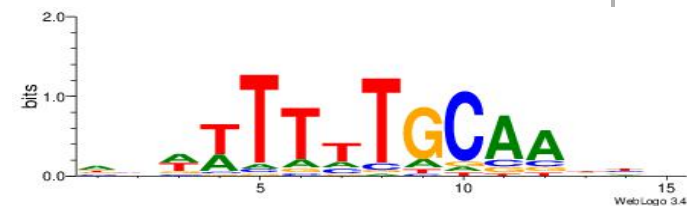
Original motif

Consensus sequence: HVDTTGCAAAWWDH



Reverse complement motif

Consensus sequence: HDWWTTTTGCAADB



Motif ID: [UP00199](#)
Motif name: Six4
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: 10
Similarity score: 0.0256033

Alignment:

ADDHATGACACCBHBBV

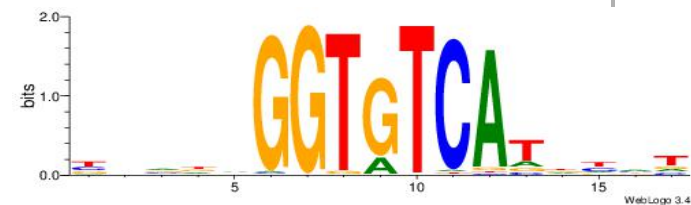
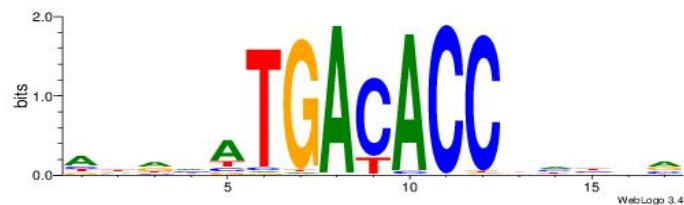
-----TTTCATAAWT

Original motif

Consensus sequence: ADDHATGACACCBHBBV

Reverse complement motif

Consensus sequence: BBVHVGGTGTCAHDDT

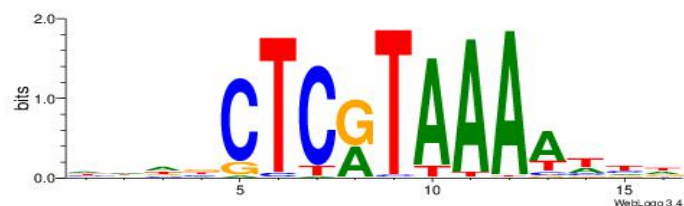


Motif ID: [UP00173](#)
 Motif name: Hoxc13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0262559

Alignment:
 HHDBCTCRTAAAWHD
 ---TTTCATAAWT---

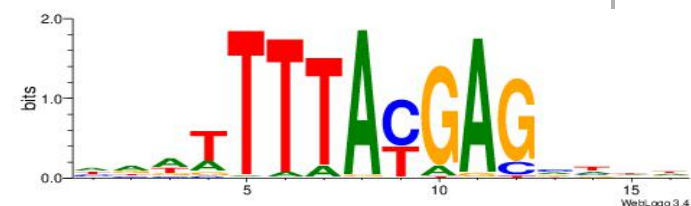
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

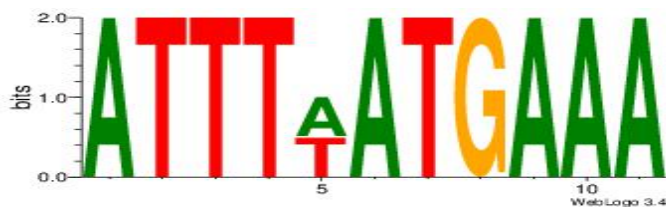
Consensus sequence: DHWTTTTAMGAGBDHH



Dataset #: 2 **Motif ID: 11** **Motif name: Motif 11**

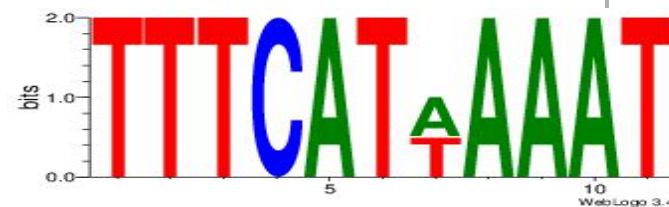
Original motif

Consensus sequence: ATTTWATGAAA



Reverse complement motif

Consensus sequence: TTTCATWAAAT



Best Matches for Motif ID 11 (Highest to Lowest)

Motif ID:	UP00130
Motif name:	Lhx3
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:	11
Similarity score:	0.0235917

Alignment:

VHHWWTTAATTAATTDV

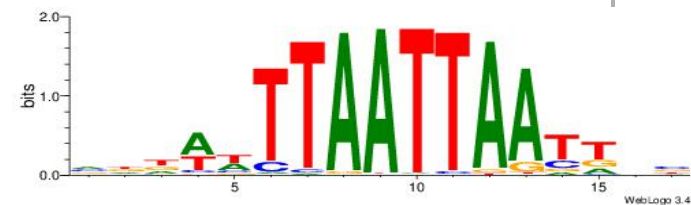
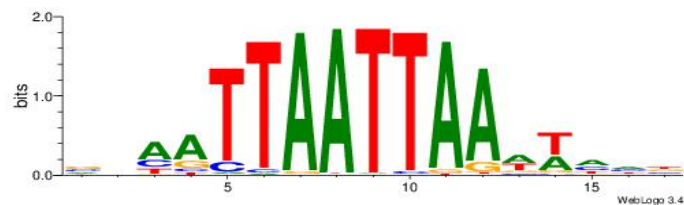
----TTTCATWAAAT--

Original motif

Consensus sequence: VDAATTAATTAAWWHB

Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV

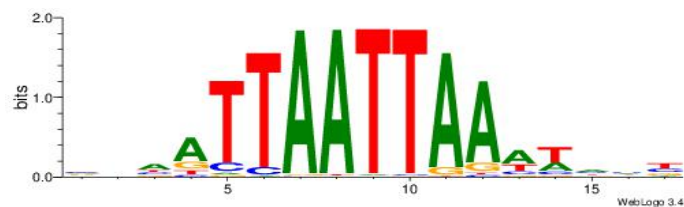


Motif ID: [UP00212](#)
 Motif name: Lhx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0238582

Alignment:
 VDHWT TTAATTAATHHV
 ---ATTTWATGAAA---

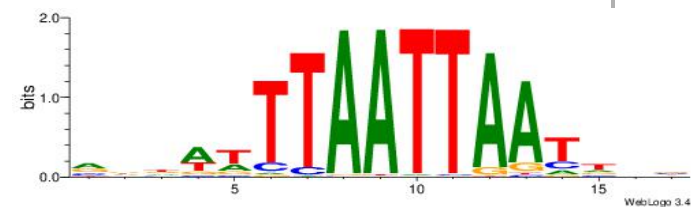
Original motif

Consensus sequence: VDHATTAATTAAWHHB



Reverse complement motif

Consensus sequence: VDHWT TTAATTAATHHV



Motif ID: [UP00173](#)

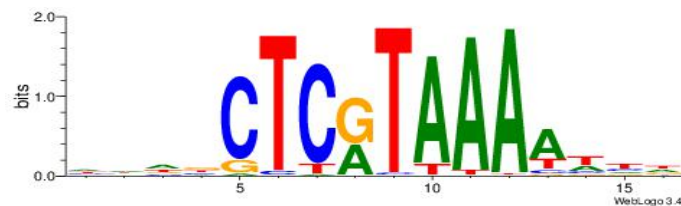
Motif name: Hoxc13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.024458

Alignment:

HHDBCTCRTAAAWHD
 ---TTTCATWAAAT--

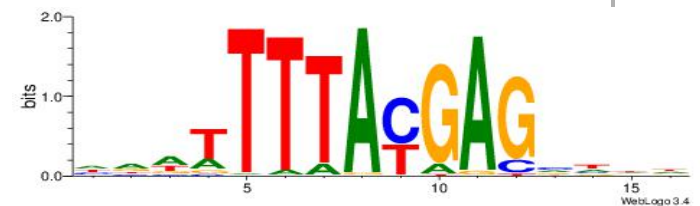
Original motif

Consensus sequence: HHDBCTCRTAAAWHD



Reverse complement motif

Consensus sequence: DHWTTTTAMGAGBDHH



Motif ID: [UP00169](#)
 Motif name: Lmx1b
 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: 11

Similarity score: 0.0247146

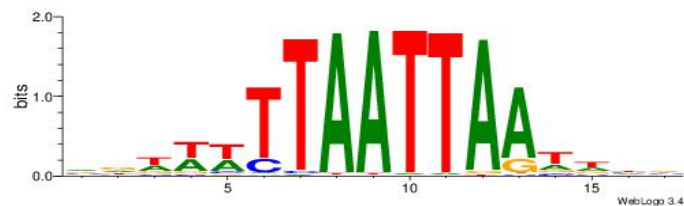
Alignment:

VDWWTTAATTAATDHB

----TTCATWAAAT--

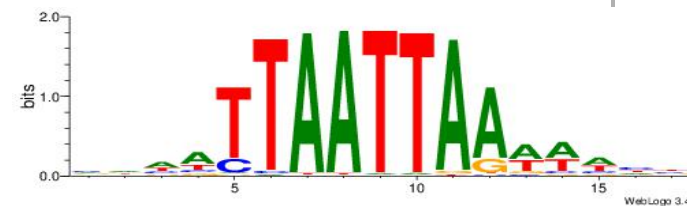
Original motif

Consensus sequence: VDWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00188](#)
Motif name: Lmx1a
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: 11
Similarity score: 0.0250542

Alignment:

CVHHTTAATTAAWWWHB

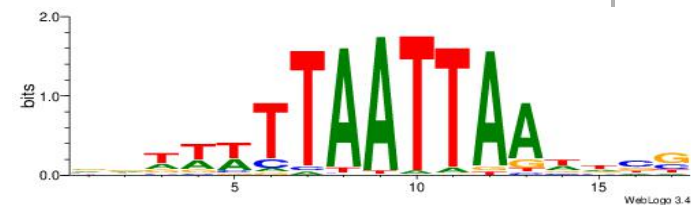
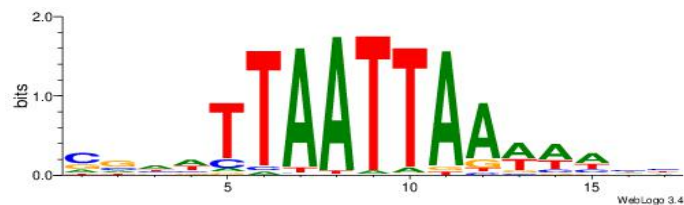
--ATTTWATGAAA----

Original motif

Consensus sequence: CVHHTTAATTAAWWWHB

Reverse complement motif

Consensus sequence: BDWWTTAATTAHHVG



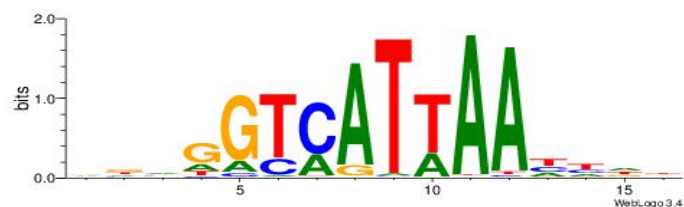
Motif ID: [UP00197](#)
 Motif name: Hoxc9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0275369

Alignment:

VDHHTTAATGACCBHV
 --ATTTWATGAAA---

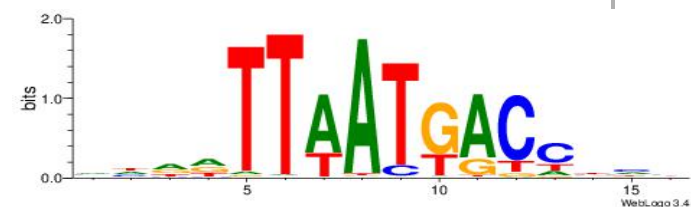
Original motif

Consensus sequence: VDVGGTCATTAAHHDB



Reverse complement motif

Consensus sequence: VDHHTTAATGACCBHV



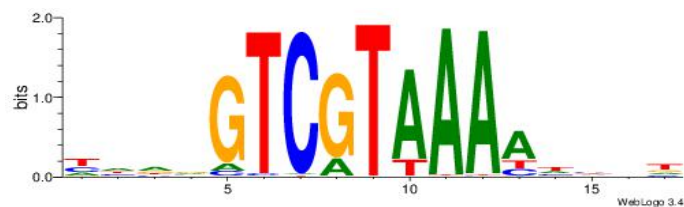
Motif ID: [UP00117](#)
 Motif name: Hoxd11
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.028378

Alignment:

DDDHTTTTACGACVDHH
 ---ATTTWATGAAA---

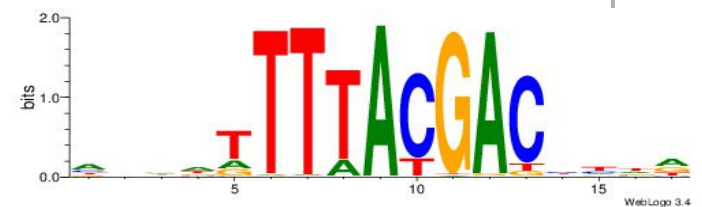
Original motif

Consensus sequence: HHDVGTCTGTA AAAHHHD



Reverse complement motif

Consensus sequence: DDDHTTTTACGACVDHH

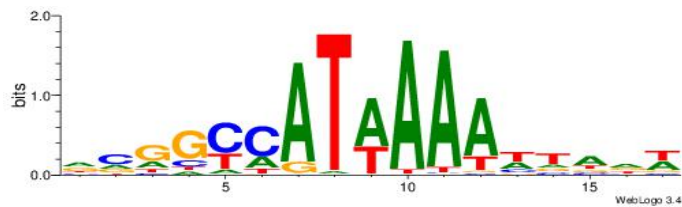


Motif ID: [UP00213](#)
 Motif name: Hoxa9
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3

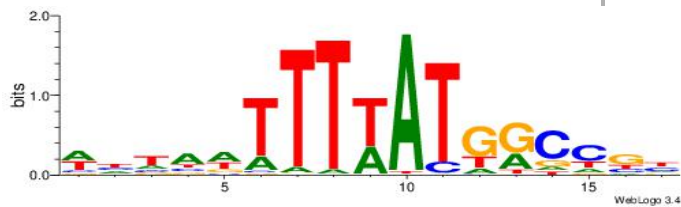
Number of overlap: 11
Similarity score: 0.0286621

Alignment:
DCGGYCATWAAAWTADW
--TTTCATWAAAT----

Original motif
Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif
Consensus sequence: WDTAWTTTWATGKCCGD



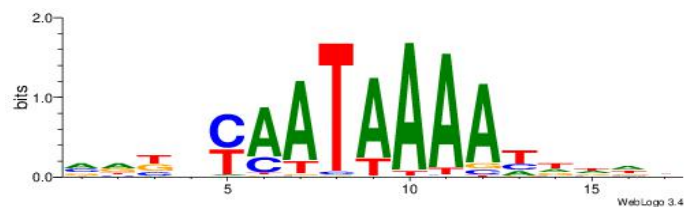
Motif ID: [UP00121](#)
Motif name: Hoxd10
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0288394

Alignment:
VDKVYAATAAAATDDDH
--TTTCATWAAAT----

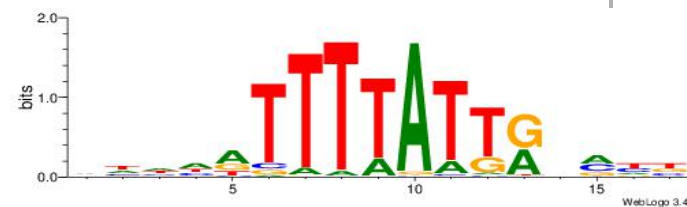
Original motif

Reverse complement motif

Consensus sequence: VDKVYAATAAAATDDDH



Consensus sequence: HDDDATTTTATTKVRDB



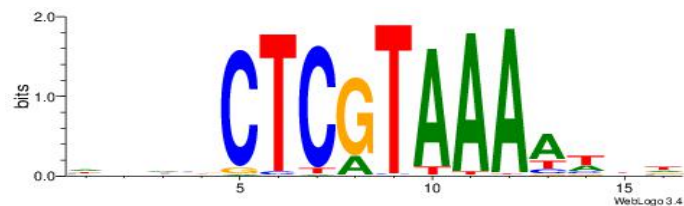
Motif ID: [UP00183](#)
Motif name: Hoxa13
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.028941

Alignment:

```
HDHBCTCGTAAAWBD  
---TTTCATWAAAT---
```

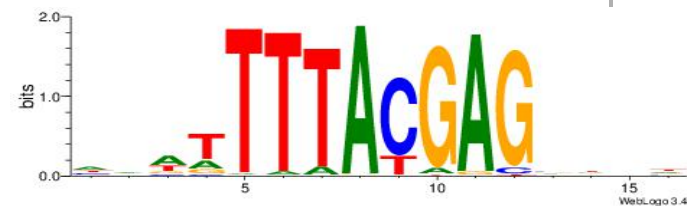
Original motif

Consensus sequence: HDHBCTCGTAAAWBD



Reverse complement motif

Consensus sequence: DVWTTTTACGAGBHDH



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

Original motif

Consensus sequence: AAAACAAA



Reverse complement motif

Consensus sequence: TTTGTTTT



Best Matches for Motif ID 12 (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:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0

Alignment:

HBDDDAACAAAGRVBHH

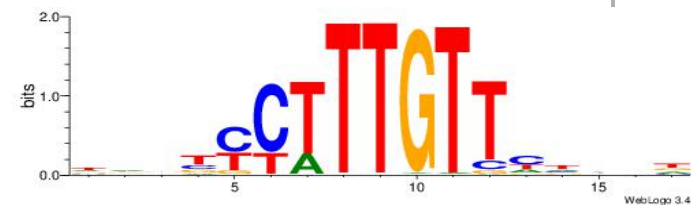
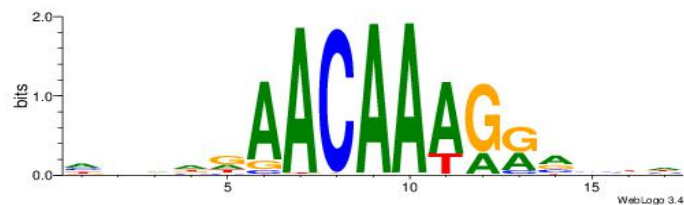
---AAAACAAA-----

Original motif

Consensus sequence: HBDDDAACAAAGRVBHH

Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH

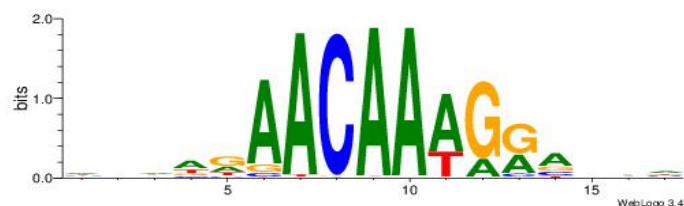


Motif ID: [UP00030](#)
 Motif name: Sox11_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.000282957

Alignment:
 HBDDRAACAAAGRABHH
 ---AAAACAAA-----

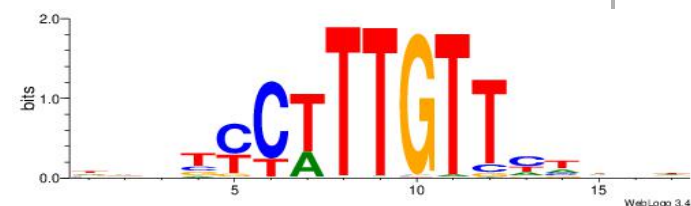
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00025](#)

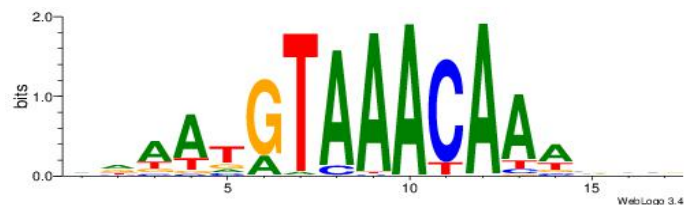
Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00309128

Alignment:

BBVTTTGTTTACATTDD
 ---TTTGTTTT-----

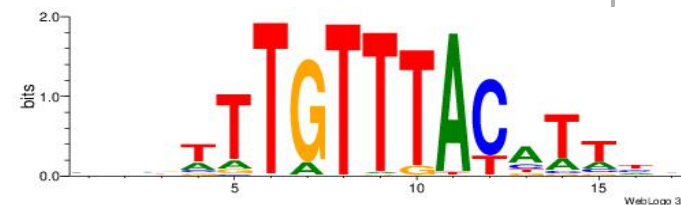
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTTGTTTACATTDD

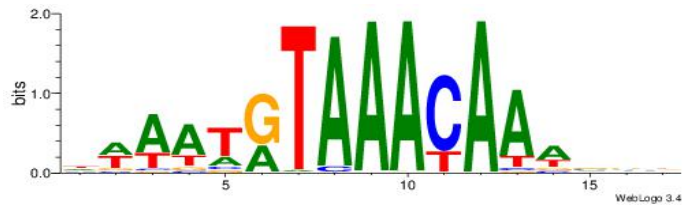


Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 8

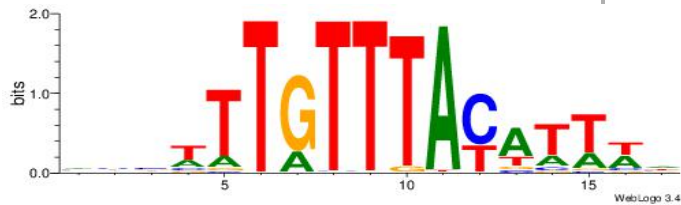
Similarity score: 0.00620509

Alignment:
VVVWTTGTTTAMATTWD
---TTTGTTTT-----

Original motif
Consensus sequence: DWAATRTAAACAAWVVB



Reverse complement motif
Consensus sequence: VVVWTTGTTTAMATTWD

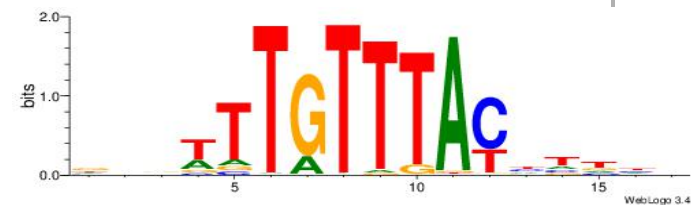
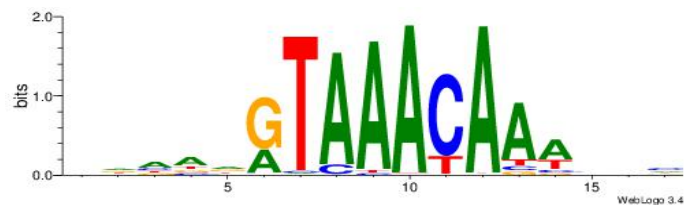


Motif ID: [UP00039](#)
Motif name: Foxj3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.00680733

Alignment:
HDHADGTAAACAAAVVH
-----AAAACAAA---

Original motif
Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif
Consensus sequence: DVVTTTGTTTACDTHDH

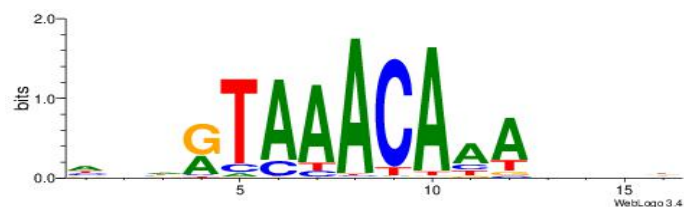


Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0130585

Alignment:
 DDDHTTTGTTTAMHDDH
 ----TTTGTTTT----

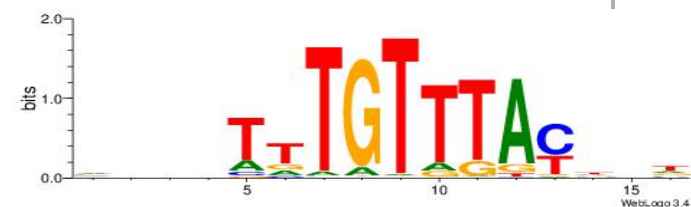
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



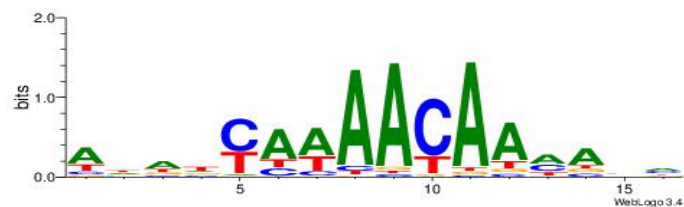
Motif ID: [UP00061](#)
 Motif name: Foxl1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0137227

Alignment:

ADDDYAWAACAAMAHH
 -----AAAACAAA---

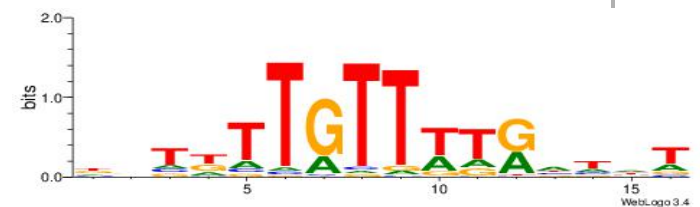
Original motif

Consensus sequence: ADDDYAWAACAAMAHH



Reverse complement motif

Consensus sequence: HDTYTTGTTWTKDDDT



Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4

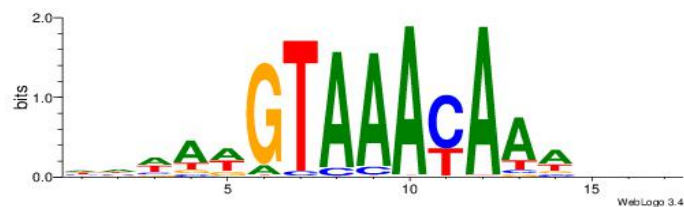
Number of overlap: 8
Similarity score: 0.0160723

Alignment:

BDVTTTKTTTACWTWHH
---TTTGTTTT-----

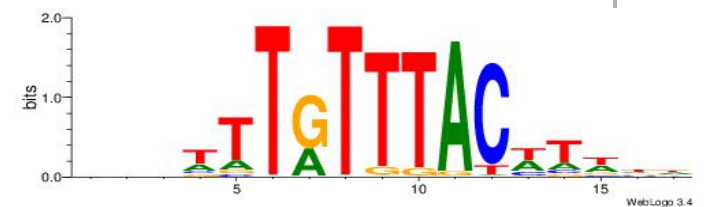
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00101](#)
Motif name: Sox12_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: 8
Similarity score: 0.0161675

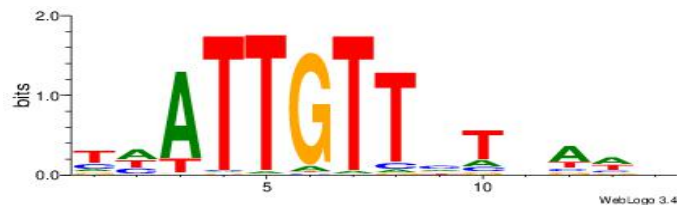
Alignment:

DWTHAVAACAATHA
----AAAACAAA--

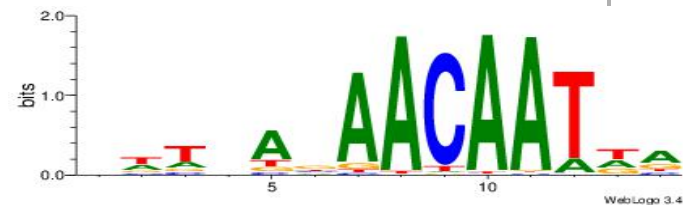
Original motif

Reverse complement motif

Consensus sequence: THATTGTTVTHAWH



Consensus sequence: DWTHAVAACAATHA



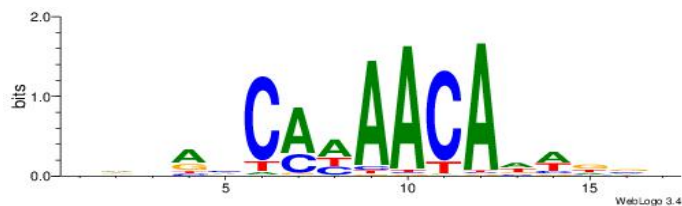
Motif ID: [UP00039](#)
Motif name: Foxj3_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 8
Similarity score: 0.0164735

Alignment:

DVHWDTGTTWTGDTBDH
---TTTGTTTT-----

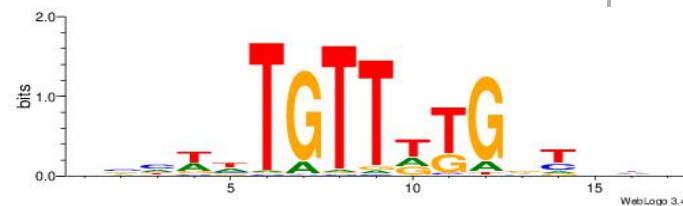
Original motif

Consensus sequence: HDBAHCAWAACADWDVD



Reverse complement motif

Consensus sequence: DVHWDTGTTWTGDTBDH



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

Original motif

Consensus sequence: AAAGATTT



Reverse complement motif

Consensus sequence: AAATCTTT



Best Matches for Motif ID 13 (Highest to Lowest)

Motif ID:	UP00114
Motif name:	Homez
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:	8
Similarity score:	0.00327586

Alignment:

AHWWMATCGTTTTBADD

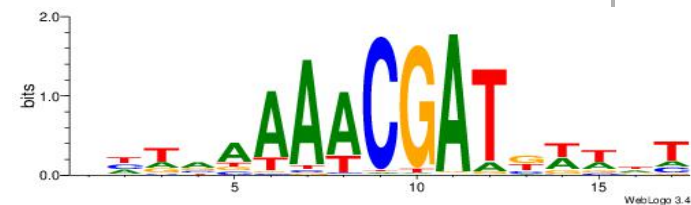
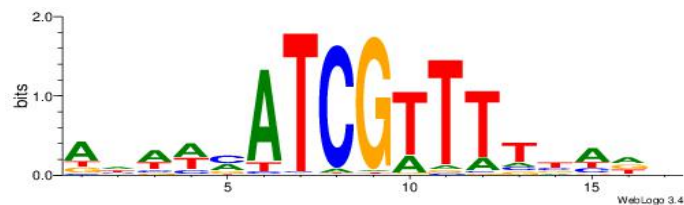
---AAATCTTT-----

Original motif

Consensus sequence: AHWWMATCGTTTTBADD

Reverse complement motif

Consensus sequence: HDTVAAAACGATRWWHT

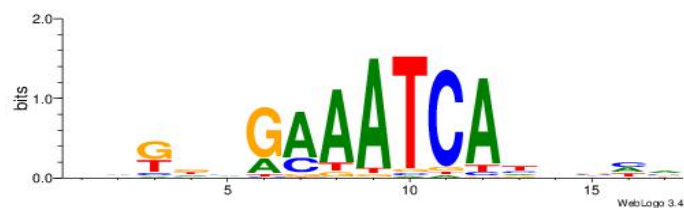


Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0107572

Alignment:
 DDKDHGAAATCAHHBHV
 -----AAATCTTT---

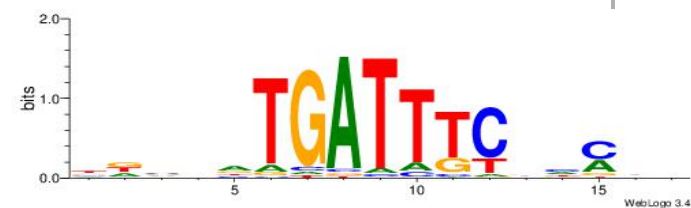
Original motif

Consensus sequence: DDKDHGAAATCAHHBHV



Reverse complement motif

Consensus sequence: BDBDHTGATTTCDHYDD



Motif ID: [UP00080](#)

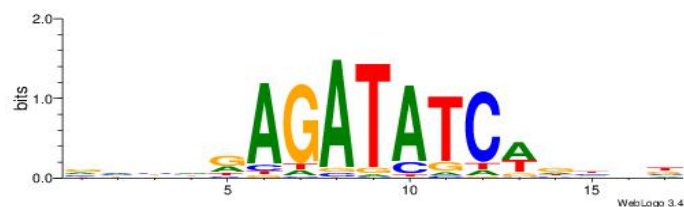
Motif name: Gata5_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0119733

Alignment:

VVBHRAGATATCWDHBB
 ---AAAGATTT-----

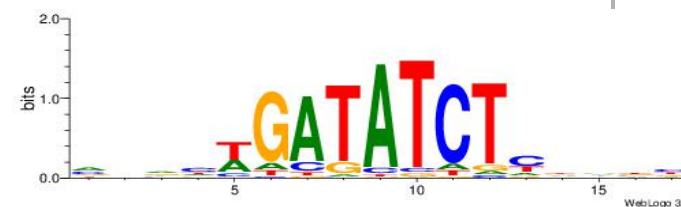
Original motif

Consensus sequence: VVBHRAGATATCWDHBB



Reverse complement motif

Consensus sequence: VVHHWGATATCTMHBBV



Motif ID: [UP00059](#)
 Motif name: Arid5a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 8

Similarity score: 0.0140725

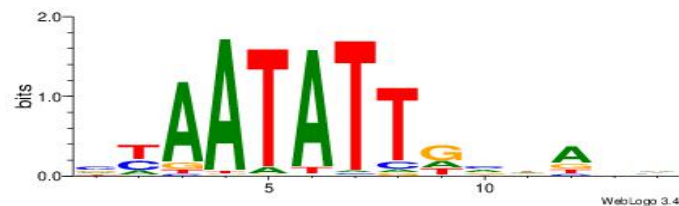
Alignment:

HDTDVCAATATTMV

-----AAAGATTT-

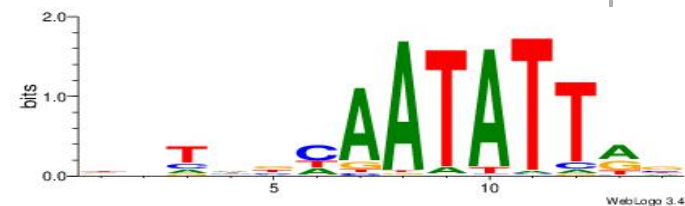
Original motif

Consensus sequence: VYAATATTGVDADH



Reverse complement motif

Consensus sequence: HDTDVCAATATTMV



Motif ID: [UP00067](#)

Motif name: Lef1_primary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 9

Number of overlap: 8

Similarity score: 0.0151544

Alignment:

VDDAGATCAAAGGKDDD

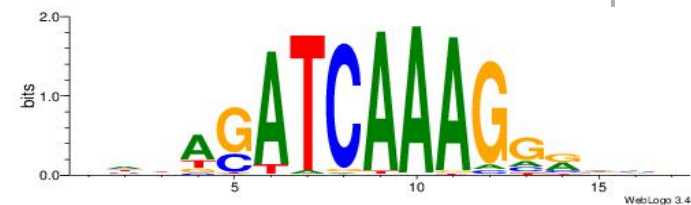
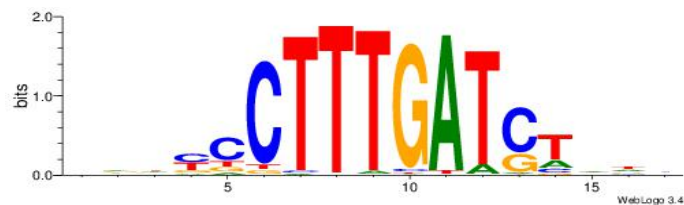
-----AAAGATTT-

Original motif

Consensus sequence: DDDYCCTTTGATCTDDV

Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



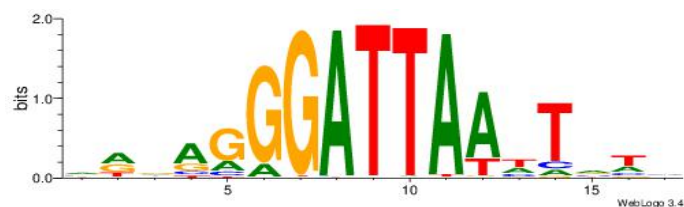
Motif ID: [UP00208](#)
 Motif name: Obox5_3963.2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.015824

Alignment:

VRVAGGGATTAAHTVWV
 ---AAAGATTT-----

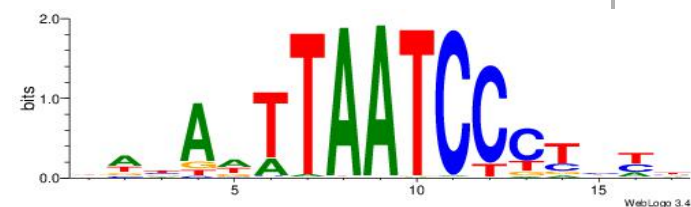
Original motif

Consensus sequence: VRVAGGGATTAAHTVWV



Reverse complement motif

Consensus sequence: VWBAHTTAATCCCTVKB



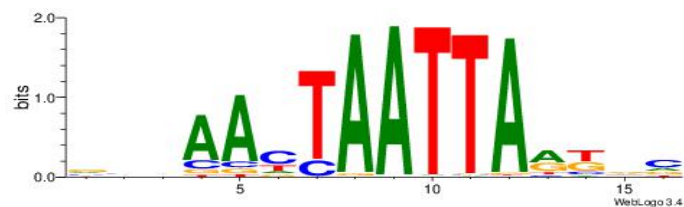
Motif ID: [UP00167](#)
 Motif name: En1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.0159173

Alignment:

VHRKTAATTAGTTVVV
 -----AAATCTTT---

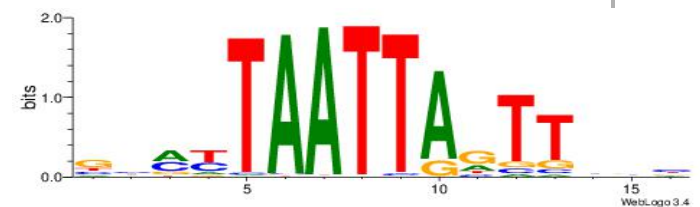
Original motif

Consensus sequence: VVVA ACTA ATTARKDV



Reverse complement motif

Consensus sequence: VHRKTAATTAGTTVVV



Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

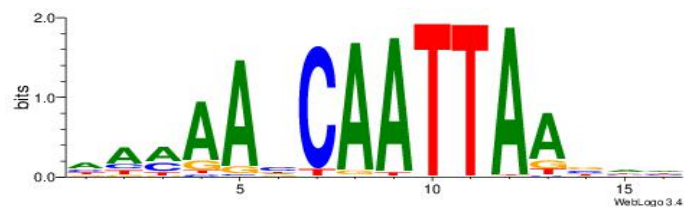
Number of overlap: 8
Similarity score: 0.0164085

Alignment:

HHBTTAATTGDTTYTH
-----AAATCTTT---

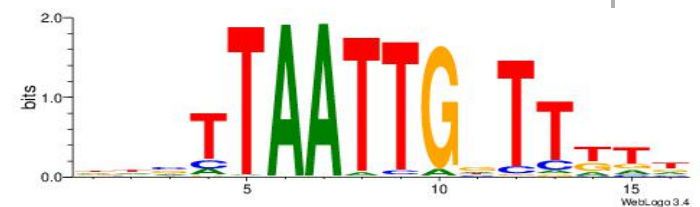
Original motif

Consensus sequence: HMAAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTYTH



Motif ID: [UP00125](#)
Motif name: Pitx2
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0166506

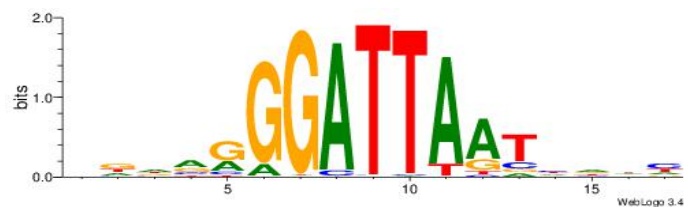
Alignment:

DDDVRGGATTAATHDDH
---AAAGATTT-----

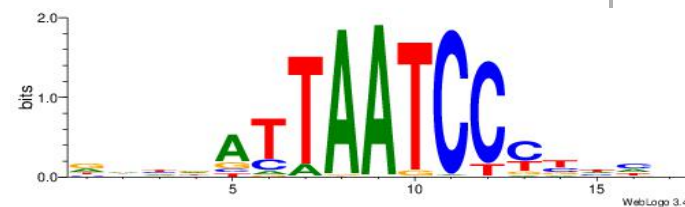
Original motif

Reverse complement motif

Consensus sequence: DDDVRRGATTAATHDDH



Consensus sequence: DDDDATTAATCCMBDHD



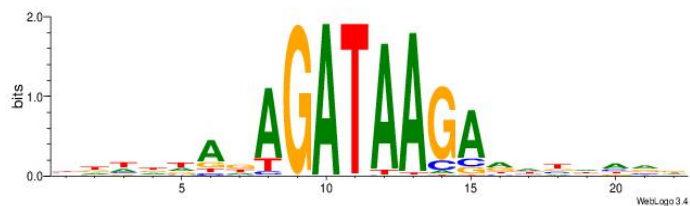
Motif ID: [UP00032](#)
Motif name: Gata3_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 8
Similarity score: 0.0204535

Alignment:

HBHVDHDTCTTATCTHTDDHDV
-----AAATCTTT-----

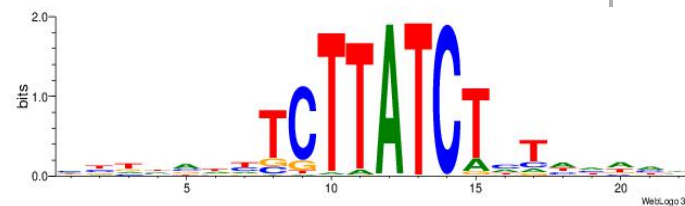
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHVDHDTCTTATCTHTDDHDV



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

Original motif

Consensus sequence: AWAATAA



Reverse complement motif

Consensus sequence: TTATTTWT



Best Matches for Motif ID 14 (Highest to Lowest)

Motif ID: [UP00032](#)
Motif name: Gata3_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: 8
Similarity score: 0.00506466

Alignment:

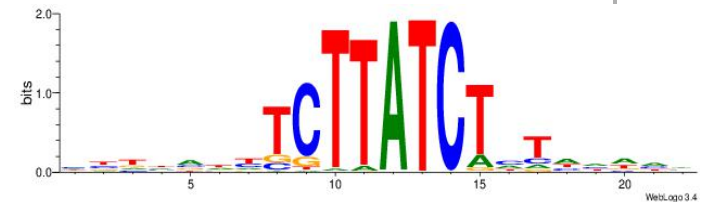
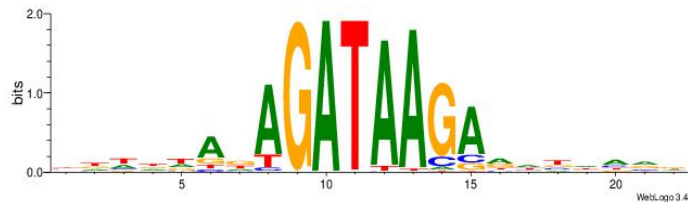
```
HBHDVHDTCTTATCTHTDDHDV  
-----TTATTTWT-----
```

Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD

Reverse complement motif

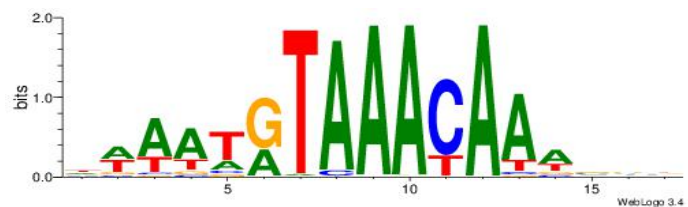
Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



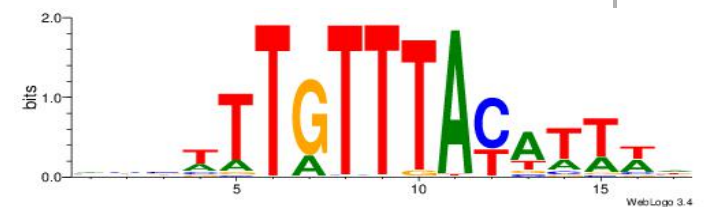
Motif ID: [UP00061](#)
 Motif name: Foxl1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00546278

Alignment:
 DWAATRTAAACAAWVVB
 -----AWAAATAA-----

Original motif
 Consensus sequence: DWAATRTAAACAAWVVB



Reverse complement motif
 Consensus sequence: VVVWTTGTTTAMATTWD



Motif ID: [UP00118](#)

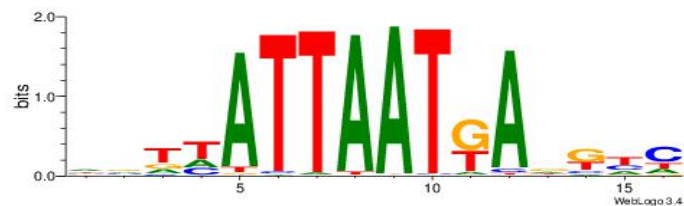
Motif name: Pou4f3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.00832205

Alignment:

GHYHTYATTAATAAVH
 ----TTATTTWT----

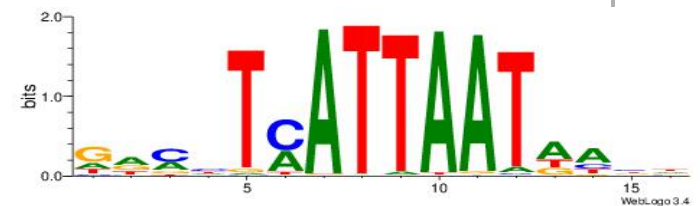
Original motif

Consensus sequence: HVTTATTAATKADKHC



Reverse complement motif

Consensus sequence: GHYHTYATTAATAAVH



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: Forward
 Position number: 4
 Number of overlap: 8

Similarity score: 0.00912866

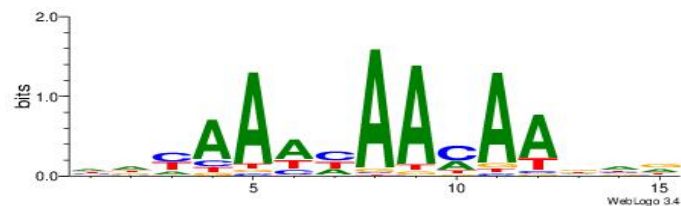
Alignment:

HHHTTRTTDTTTKDH

---TTATTTWT----

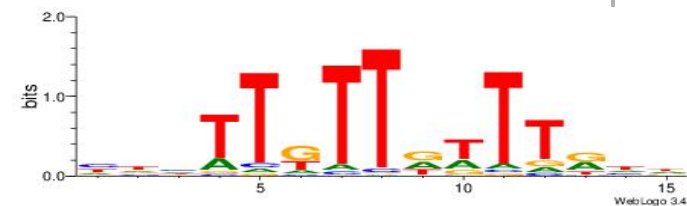
Original motif

Consensus sequence: HDYAAHAAMAADHD



Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



Motif ID: [UP00039](#)
Motif name: Foxj3_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 8
Similarity score: 0.0105685

Alignment:

HDHADGTAAACAAAVVH

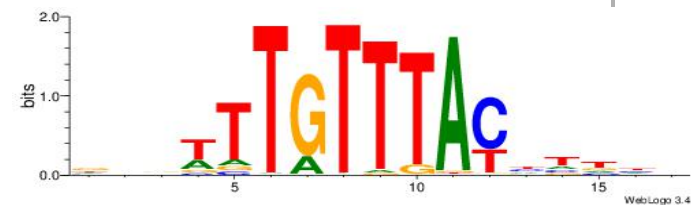
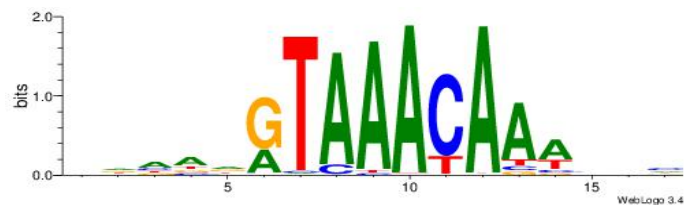
-----AWAAATAA-----

Original motif

Consensus sequence: HDHADGTAAACAAAVVH

Reverse complement motif

Consensus sequence: DVVTTTGTTTACDTHDH



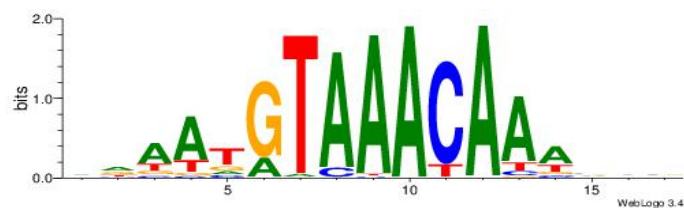
Motif ID: [UP00025](#)
 Motif name: Foxk1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0141517

Alignment:

DDAATGTAAACAAVVB
 -----AWAAATAA-----

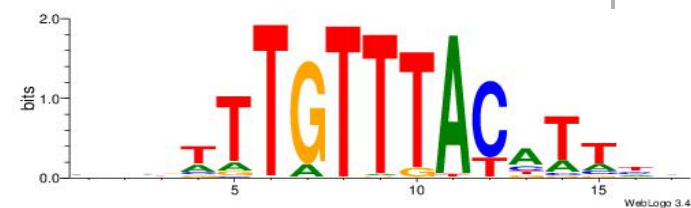
Original motif

Consensus sequence: DDAATGTAAACAAVVB



Reverse complement motif

Consensus sequence: BBVTTGTTCATTTDD



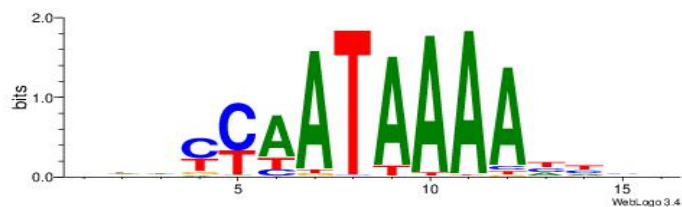
Motif ID: [UP00180](#)
 Motif name: Hoxd13
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0142824

Alignment:

HDHHTTTTATTKKHDD
 -----TTATTTWT--

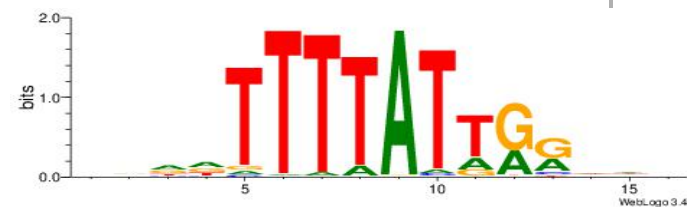
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



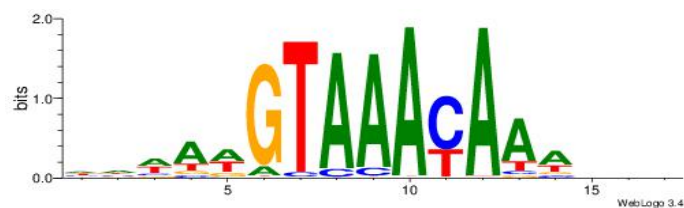
Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5

Number of overlap: 8
Similarity score: 0.0155566

Alignment:
HHWAWGTAAAYAAVDB
-----AWAAATAA-----

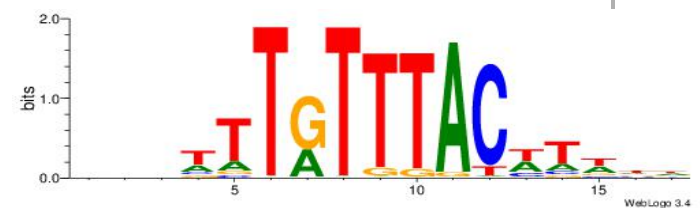
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



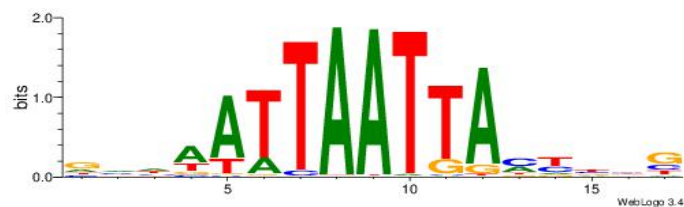
Motif ID: [UP00200](#)
Motif name: Nkx6-1_2825.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 8
Similarity score: 0.0158439

Alignment:
DVHAATTAATTAMYBBG
-AWAAATAA-----

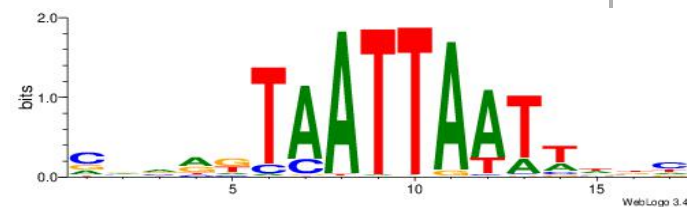
Original motif

Reverse complement motif

Consensus sequence: DVHAATTAATTAMYBBG



Consensus sequence: CBVMRTAATTAATTHBH



Motif ID: [UP00105](#)
Motif name: Pou3f4
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: 0.0159057

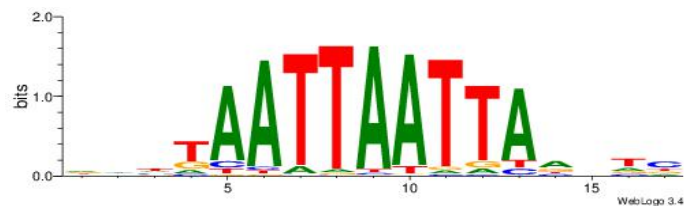
Alignment:

DVHTAATTAATTADDDDB

--AWAAATAA-----

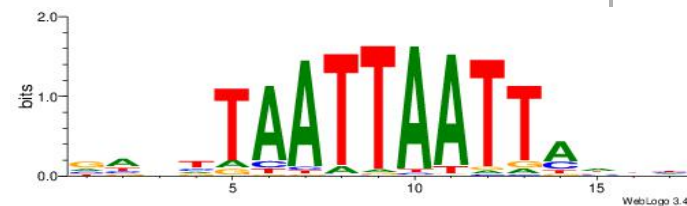
Original motif

Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDDDTAATTAATTAHBD



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

Original motif

Consensus sequence: ATMACAATAAAA



Reverse complement motif

Consensus sequence: TTTTATTGTYAT



Best Matches for Motif ID 15 (Highest to Lowest)

Motif ID:	UP00180
Motif name:	Hoxd13
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:	12
Similarity score:	0.00878905

Alignment:

HDHHTTTTATTKKHDD

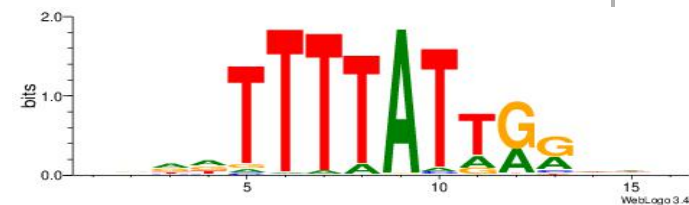
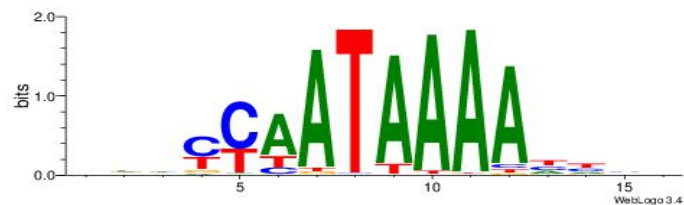
----TTTTATTGTYAT

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

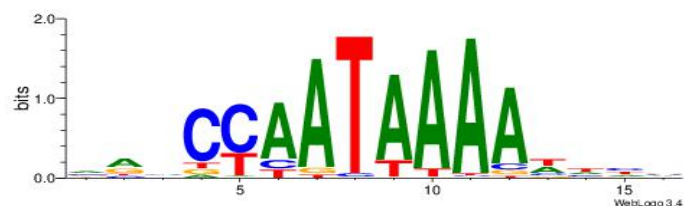
Consensus sequence: HDHHTTTTATTKKHDD



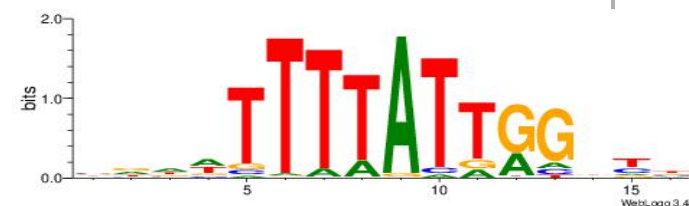
Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0162131

Alignment:
 VRHCCAATAAAWHHV
 ATMACAATAAAA----

Original motif
 Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif
 Consensus sequence: VDHWT TTTTATTGGDKB



Motif ID: [UP00121](#)

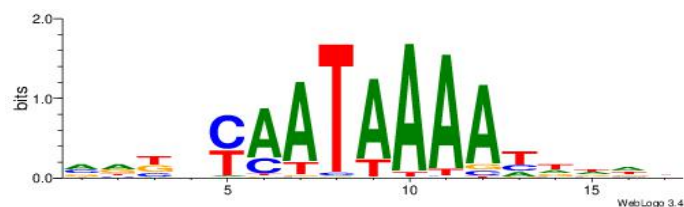
Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0246749

Alignment:

VDKVYAATAAAATDDDH
 ATMACAATAAAA-----

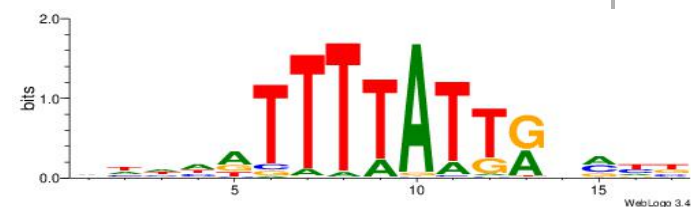
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00091](#)
 Motif name: Sox5_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12

Similarity score: 0.0247927

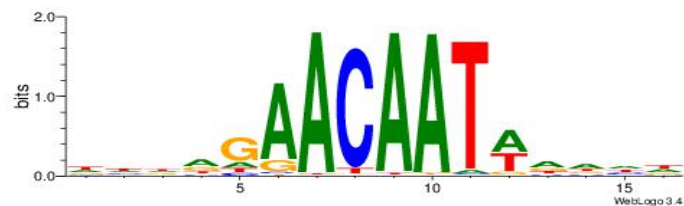
Alignment:

DHDDWATTGTTCDHHD

-TTTTATTGTYAT---

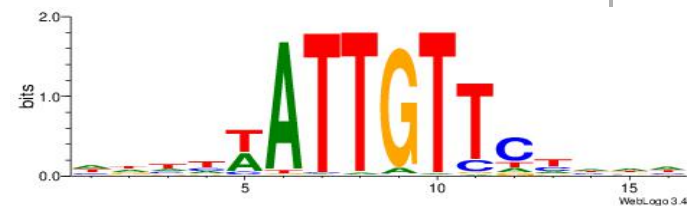
Original motif

Consensus sequence: DHDDGAACAATWDDHD



Reverse complement motif

Consensus sequence: DHDDWATTGTTCDHHD



Motif ID: [UP00207](#)
Motif name: Hoxb9
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: 12
Similarity score: 0.0248315

Alignment:

VRRGCMATAAAHHHD

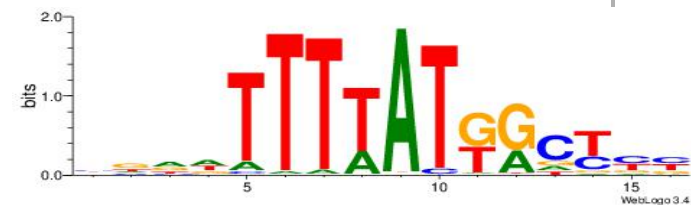
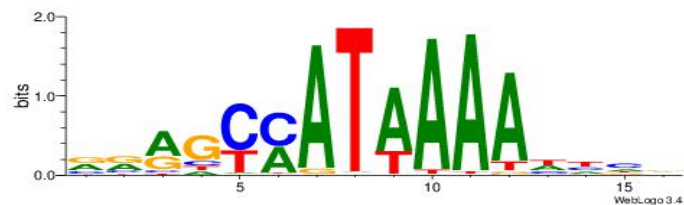
ATMACAATAAAA----

Original motif

Consensus sequence: VRRGCMATAAAHHHD

Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



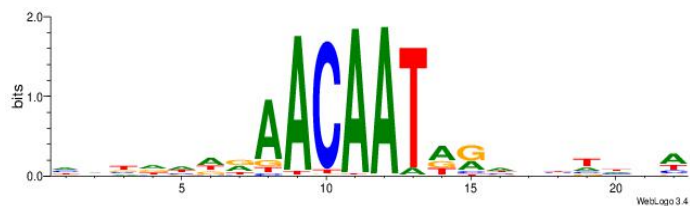
Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 6
 Number of overlap: 12
 Similarity score: 0.0268436

Alignment:

HHBDHDDAACAATDRHHHHHBW
 -----ATMACAATAAAA-----

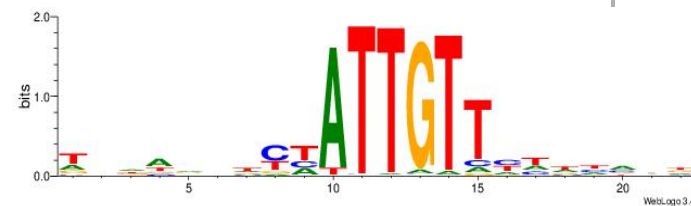
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



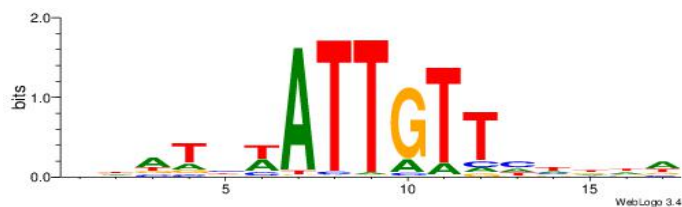
Motif ID: [UP00051](#)
 Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.02954

Alignment:

DDATBWATTGTTHHDDD
 --TTTATTGTYAT---

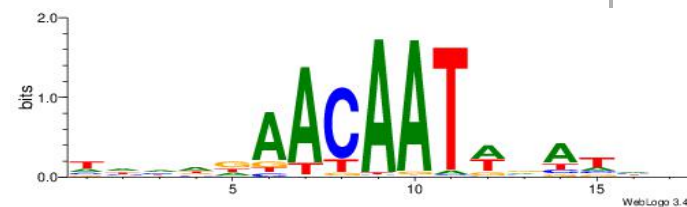
Original motif

Consensus sequence: DDATBWATTGTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12

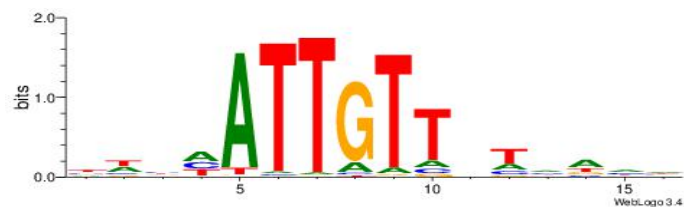
Similarity score: 0.0314917

Alignment:

HHDHABAACAATHBWV
TTTTATTGTYAT----

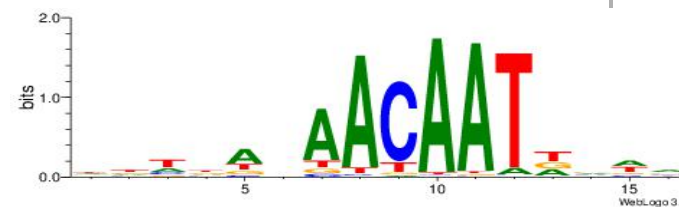
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



Motif ID: [UP00096](#)
Motif name: Sox13_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: 0.0318712

Alignment:

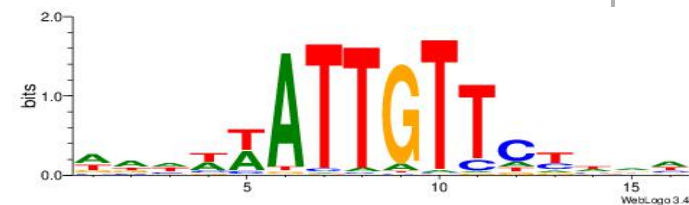
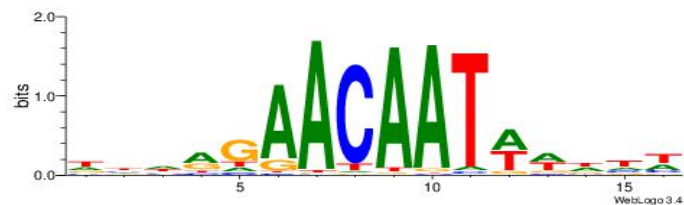
DHDRGAACAATWWDHW
---ATMACAATAAAA-

Original motif

Consensus sequence: DHDRGAACAATWWDHW

Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD

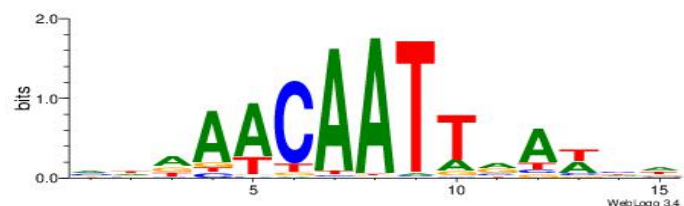


Motif ID: [UP00014](#)
 Motif name: Sox17_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 12
 Similarity score: 0.0332895

Alignment:
 DDWTBAATTGTTDDB
 --TTTTATTGTYAT--

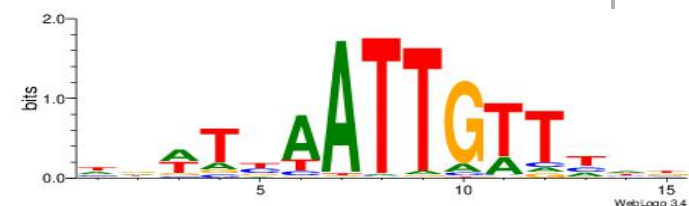
Original motif

Consensus sequence: VDDAACAATTVAWHD



Reverse complement motif

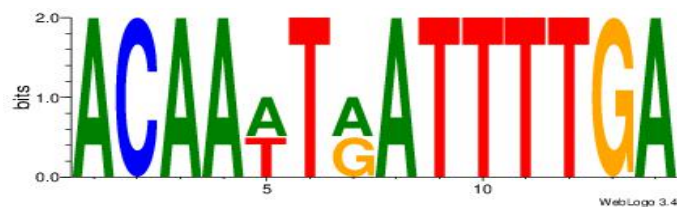
Consensus sequence: DDWTBAATTGTTDDB



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

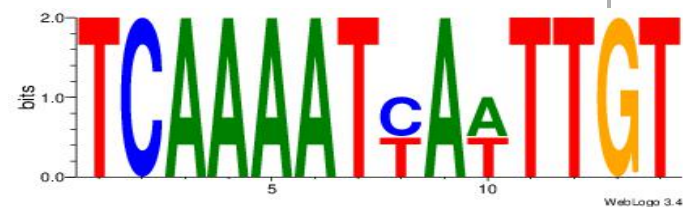
Original motif

Consensus sequence: ACAAWTRATTTTGA



Reverse complement motif

Consensus sequence: TCAAAATKAWTTGT



Best Matches for Motif ID 16 (Highest to Lowest)

Motif ID: [UP00034](#)
Motif name: Sox7_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0530035

Alignment:

HHBDHDDAACAATDRHHHHHBW

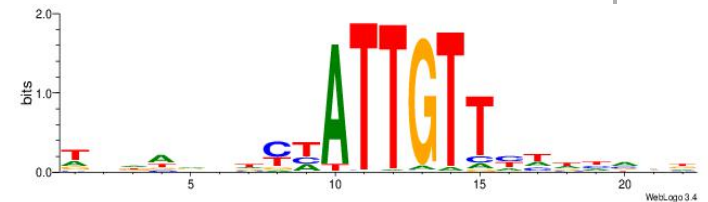
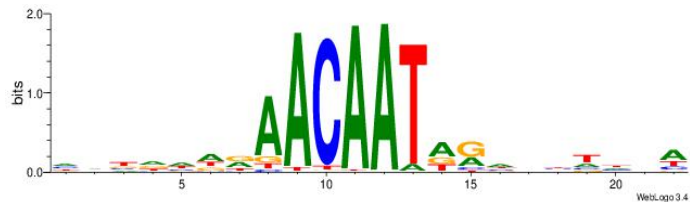
-----ACAATWTRATTTTGA

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTTTHDHDVHH

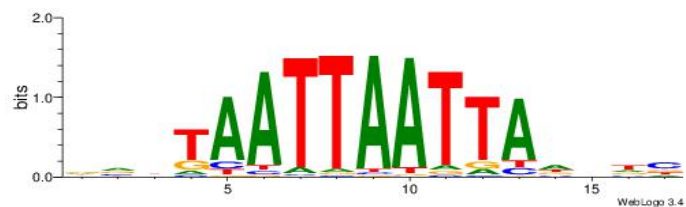


Motif ID: [UP00158](#)
 Motif name: Pou1f1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.059328

Alignment:
 BDHDTAATTAATTADBH
 -TCAAAATKAWTTGT--

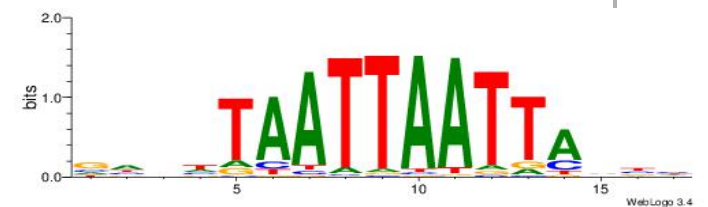
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



Motif ID: [UP00128](#)

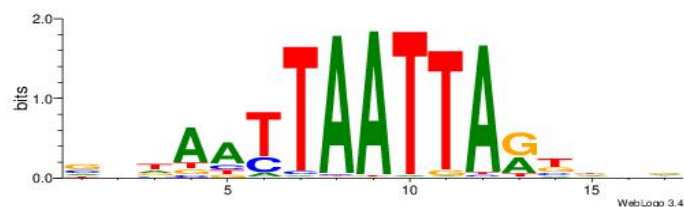
Motif name: Pou3f2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0618019

Alignment:

HHDVMTAATTAATTDDV
 --TCAAATKAWTTGT-

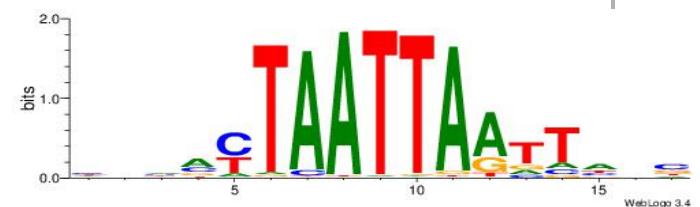
Original motif

Consensus sequence: VDDAATTAATTARBDHD



Reverse complement motif

Consensus sequence: HHDVMTAATTAATTDDV

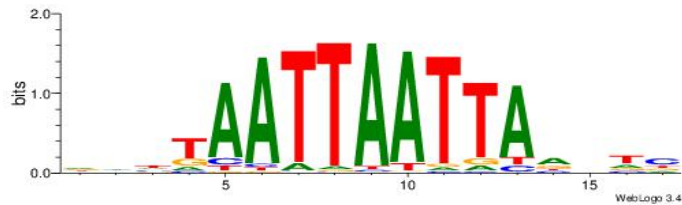


Motif ID: [UP00105](#)
 Motif name: Pou3f4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14

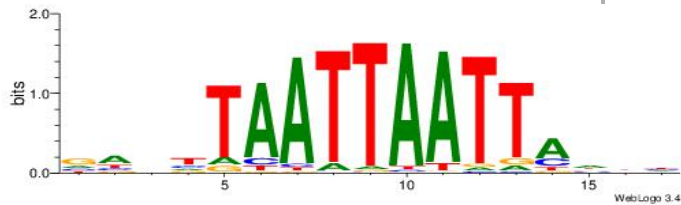
Similarity score: 0.0620147

Alignment:
BDDDTAATTAATTAHBD
-TCAAAATKAWTTGT--

Original motif
Consensus sequence: DVHTAATTAATTADDDDB



Reverse complement motif
Consensus sequence: BDDDTAATTAATTAHBD

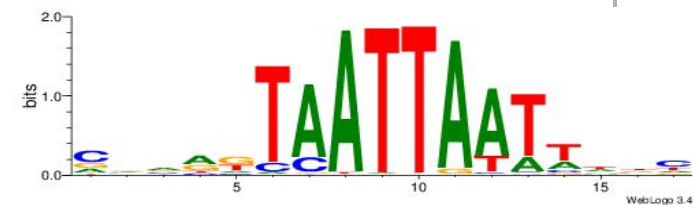
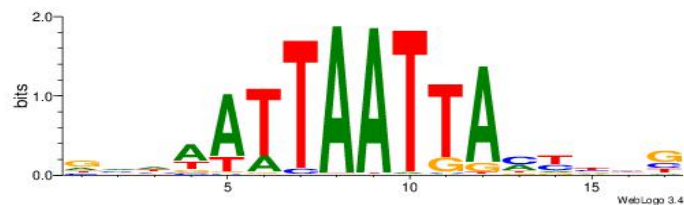


Motif ID: [UP00200](#)
Motif name: Nkx6-1_2825.1
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0623004

Alignment:
CBVMRTAATTAATTBHBH
--TCAAAATKAWTTGT-

Original motif
Consensus sequence: DVHAATTAATTAMYBBG

Reverse complement motif
Consensus sequence: CBVMRTAATTAATTBHBH



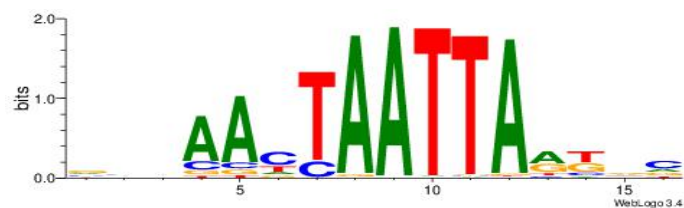
Motif ID: [UP00167](#)
 Motif name: En1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0634894

Alignment:

VVVAACTAATTARKDV
 -ACAAWTRATTTTGA-

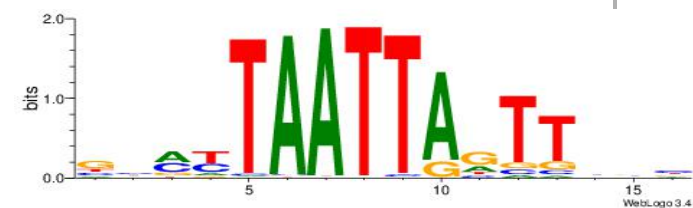
Original motif

Consensus sequence: VVVAACTAATTARKDV



Reverse complement motif

Consensus sequence: VHRKTAATTAGTTVVV



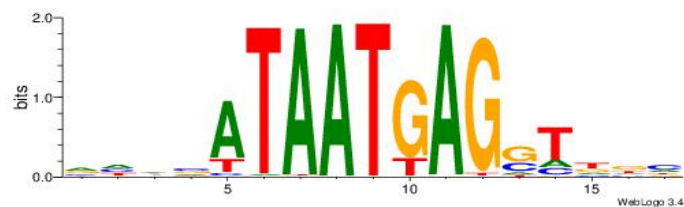
Motif ID: [UP00146](#)
 Motif name: Pou6f1_3733.1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0650456

Alignment:

VHHVATAATGAGSTDDH
 --TCAAATKAWTTGT-

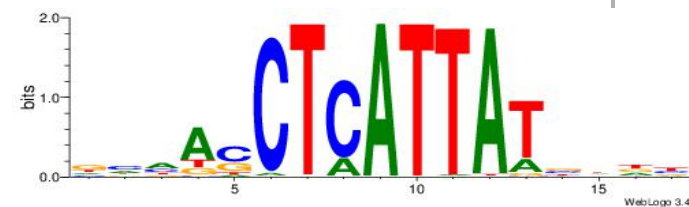
Original motif

Consensus sequence: VHHVATAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTATVHHB



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: 2

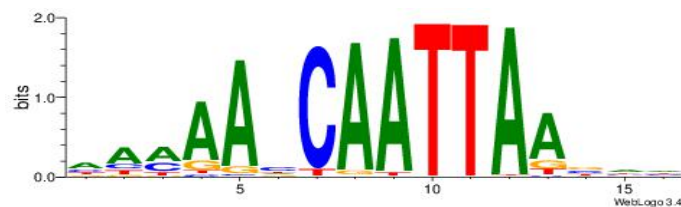
Number of overlap: 14
Similarity score: 0.0651148

Alignment:

HAMAAHCAATTAABHH
-ACAAWTRATTTTGA-

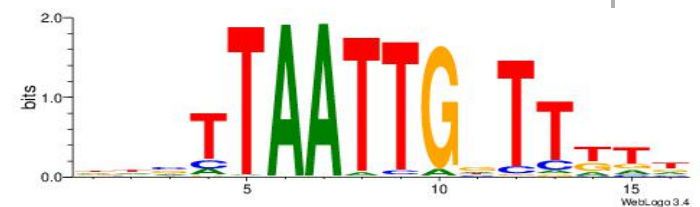
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH



Motif ID: [UP00168](#)
Motif name: Hoxd8
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0654698

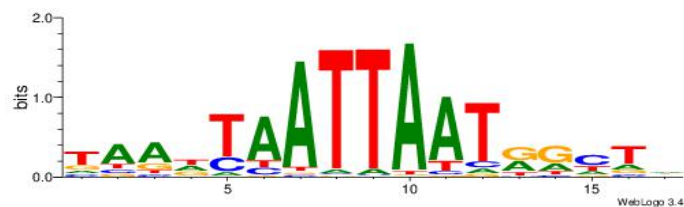
Alignment:

HADCMATTAATTADTTA
--ACAAWTRATTTTGA-

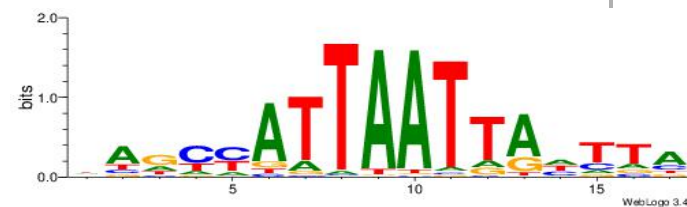
Original motif

Reverse complement motif

Consensus sequence: TAADTAATTAATRGHTH



Consensus sequence: HADCMATTAATTADTTA



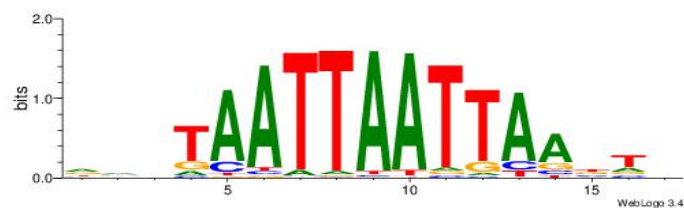
Motif ID: [UP00129](#)
Motif name: Pou3f1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0654983

Alignment:

DVBTAATTAATTAABTH
--ACAAWTRATTTTGA--

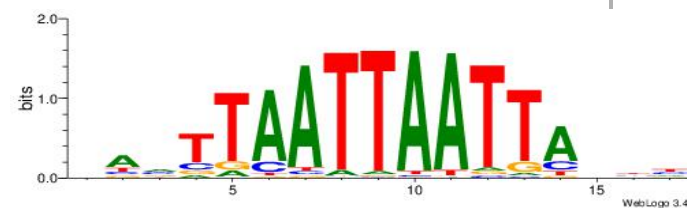
Original motif

Consensus sequence: DVBTAATTAATTAABTH



Reverse complement motif

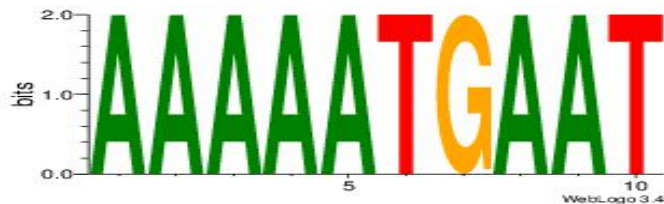
Consensus sequence: DAVTTAATTAATTAVBD



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

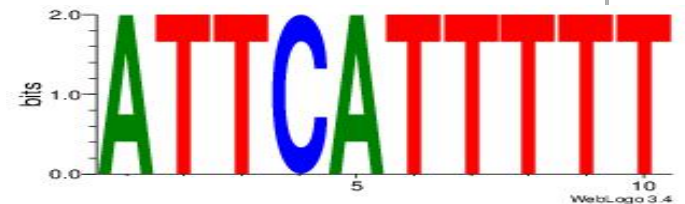
Original motif

Consensus sequence: AAAAAATGAAT



Reverse complement motif

Consensus sequence: ATTCATTTTT



Best Matches for Motif ID 17 (Highest to Lowest)

Motif ID:	UP00055
Motif name:	Hbp1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.00216896

Alignment:

HHDWTSAAATGAATDDB

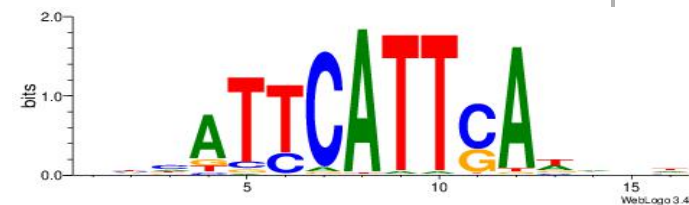
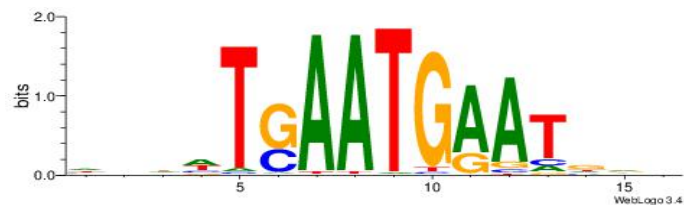
---AAAAATGAAT---

Original motif

Consensus sequence: HHDWTSAAATGAATDDB

Reverse complement motif

Consensus sequence: VDHATTCATTSAWDDH

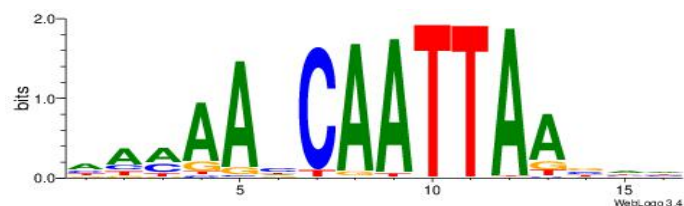


Motif ID: [UP00145](#)
 Motif name: Barhl2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.010273

Alignment:
 HAMAAHCAATTAABHH
 AAAAATGAAT-----

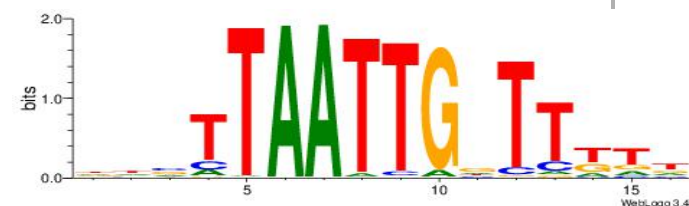
Original motif

Consensus sequence: HAMAAHCAATTAABHH



Reverse complement motif

Consensus sequence: HHBTTAATTGDTTTYH



Motif ID: [UP00171](#)

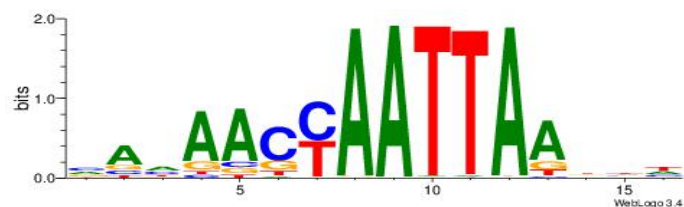
Motif name: Msx3
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0106868

Alignment:

HHVTTAATTKGTTHTV
 --ATTCATTTTT----

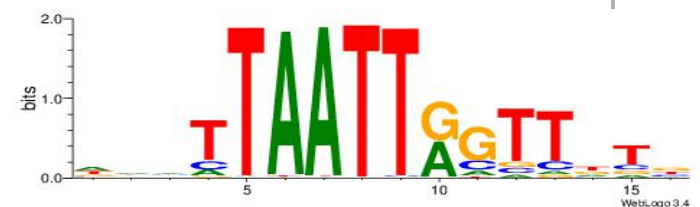
Original motif

Consensus sequence: VAHAACYAATTAABHH



Reverse complement motif

Consensus sequence: HHVTTAATTKGTTHTV



Motif ID: [UP00044](#)
 Motif name: Mafk_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 10

Similarity score: 0.0131738

Alignment:
MBHTGCADTTTTHV
--ATTCATTTT---

Original motif
Consensus sequence: VHAAAAADTGCAHBR



Reverse complement motif
Consensus sequence: MBHTGCADTTTTHV

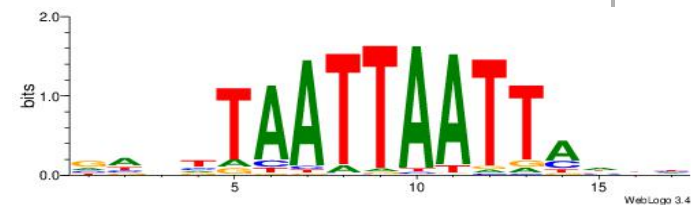
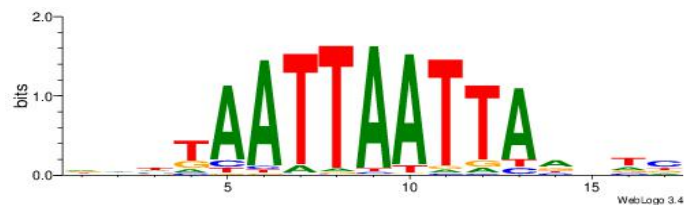


Motif ID: [UP00105](#)
Motif name: Pou3f4
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0157045

Alignment:
DVHTAATTAATTADDDDB
-AAAAATGAAT-----

Original motif
Consensus sequence: DVHTAATTAATTADDDDB

Reverse complement motif
Consensus sequence: BDDDTAATTAATTAHBD



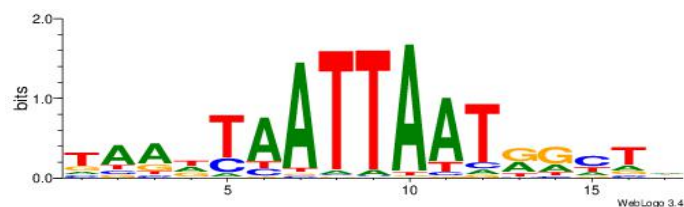
Motif ID: [UP00168](#)
 Motif name: Hoxd8
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0158473

Alignment:

HADCMATTAATTADTTA
 -----ATTCATTTTT--

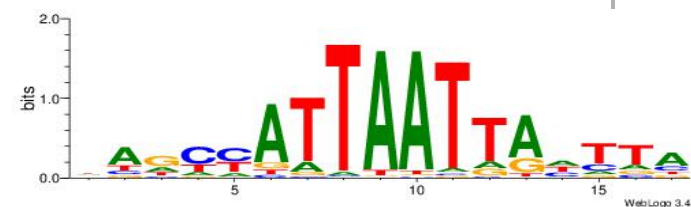
Original motif

Consensus sequence: TAADTAATTAATRGHTH



Reverse complement motif

Consensus sequence: HADCMATTAATTADTTA



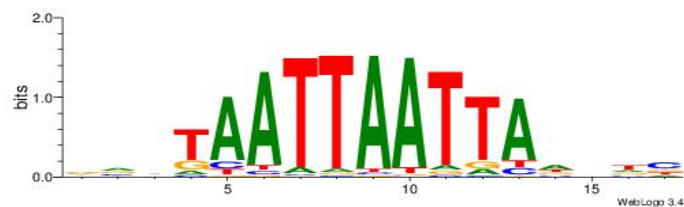
Motif ID: [UP00158](#)
 Motif name: Pou1f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0161731

Alignment:

DVDTAATTAATTADDDDB
 -AAAAATGAAT-----

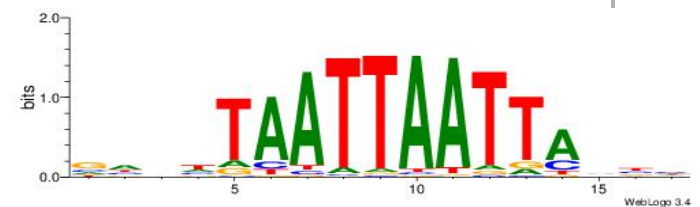
Original motif

Consensus sequence: DVDTAATTAATTADDDDB



Reverse complement motif

Consensus sequence: BDHDTAATTAATTADBH



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

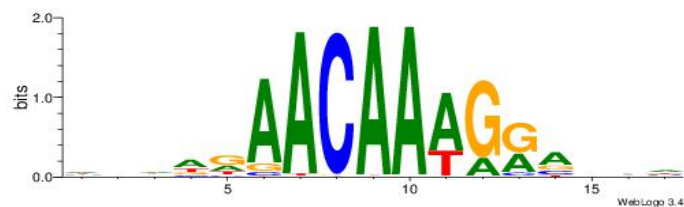
Number of overlap: 10
Similarity score: 0.0163433

Alignment:

HBDDRAACAAAGRABHH
-----AAAAATGAAT--

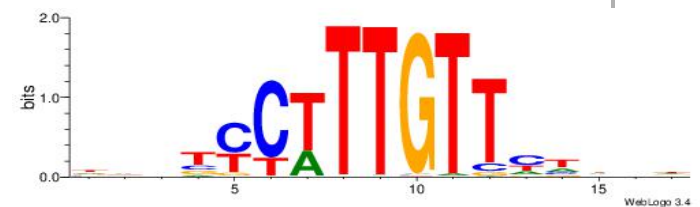
Original motif

Consensus sequence: HBDDRAACAAAGRABHH



Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



Motif ID: [UP00129](#)
Motif name: Pou3f1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0163434

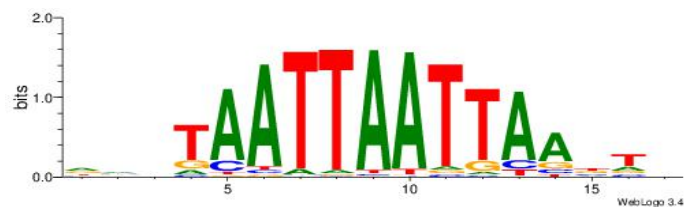
Alignment:

DVBTAATTAATTAABTH
-AAAAATGAAT-----

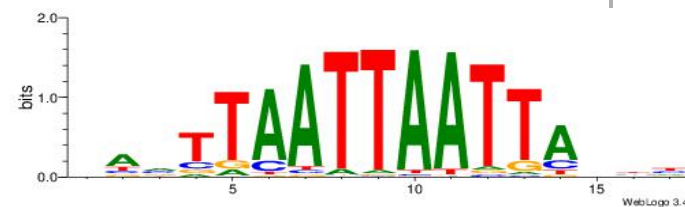
Original motif

Reverse complement motif

Consensus sequence: DVBTAATTAATTAABTH



Consensus sequence: DAVTTAATTAATTAVBD

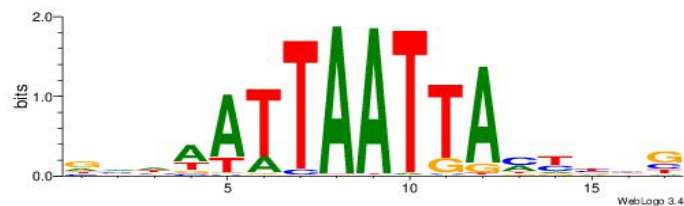


Motif ID: [UP00200](#)
Motif name: Nkx6-1_2825.1
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0167348

Alignment:
CBVMRTAATTAATTHBH
---AAAAATGAAT----

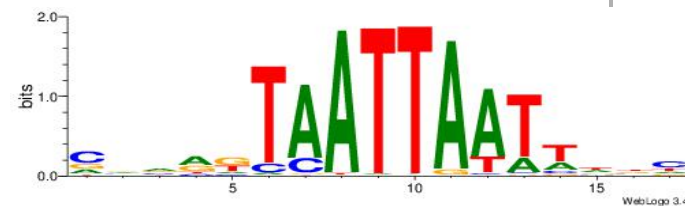
Original motif

Consensus sequence: DVHAATTAATTAMYBBG



Reverse complement motif

Consensus sequence: CBVMRTAATTAATTHBH



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

Original motif

Consensus sequence: TTAGWTWATAA



Reverse complement motif

Consensus sequence: TTATWAWCTAA



Best Matches for Motif ID 18 (Highest to Lowest)

Motif ID:	UP00262
Motif name:	Lhx1
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0358953

Alignment:

VVDATTAATTAAWWAHB

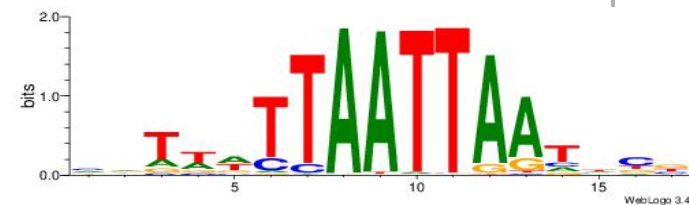
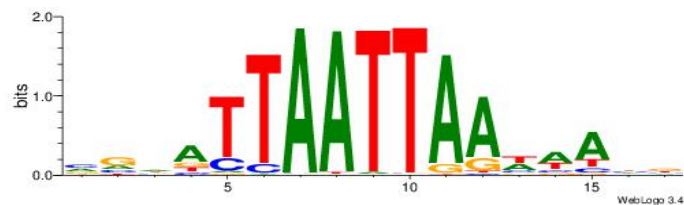
----TTAGWTWATAA--

Original motif

Consensus sequence: VVDATTAATTAAWWAHB

Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV

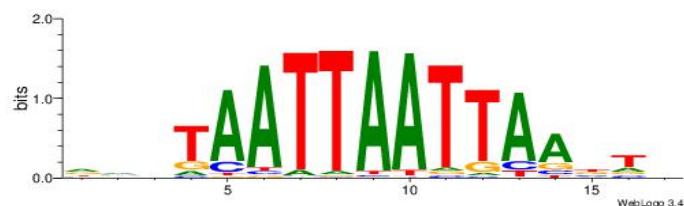


Motif ID: [UP00129](#)
 Motif name: Pou3f1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.038042

Alignment:
 DAVTTAATTAATTAVBD
 ---TTAGWTWATAA---

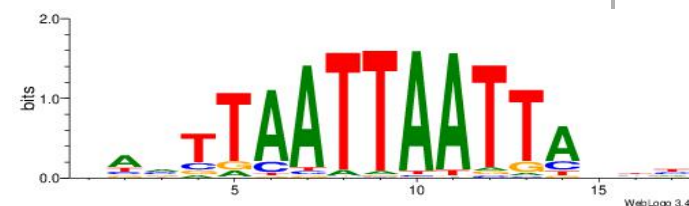
Original motif

Consensus sequence: DVBTAATTAATTAABTH



Reverse complement motif

Consensus sequence: DAVTTAATTAATTAVBD



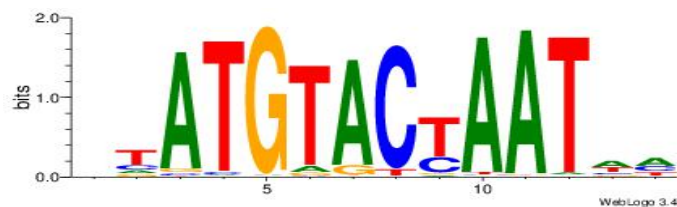
Motif ID: [UP00082](#)

Motif name: Zfp187_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0384021

Alignment:
 BTATGTACTAATWH
 ---TTAGWTWATAA

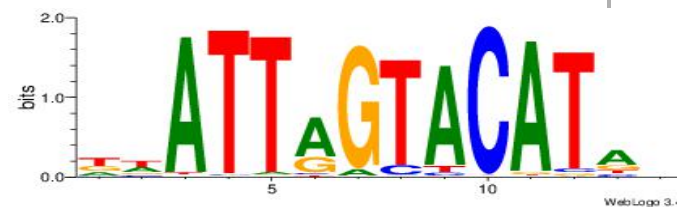
Original motif

Consensus sequence: BTATGTACTAATWH



Reverse complement motif

Consensus sequence: HWATTAGTACATAV



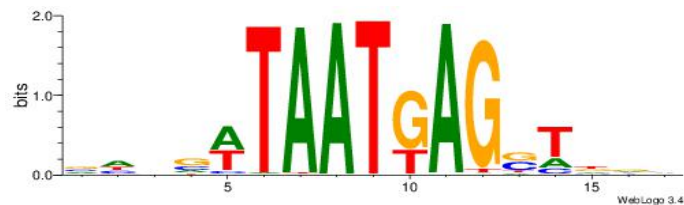
Motif ID: [UP00146](#)
 Motif name: Pou6f1_1731.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.0387939

Alignment:

DHDASCTCATTAWVVHV
-----TTATWAWCTAA

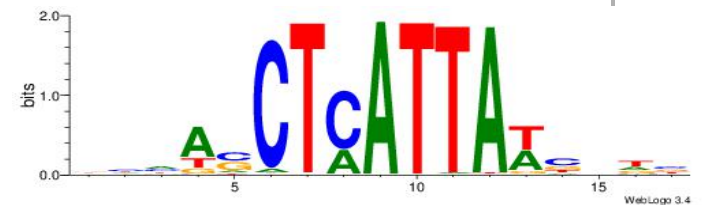
Original motif

Consensus sequence: VHVVWTAATGAGSTDDH



Reverse complement motif

Consensus sequence: DHDASCTCATTAWVVHV



Motif ID:	UP00169
Motif name:	Lmx1b
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0395035

Alignment:

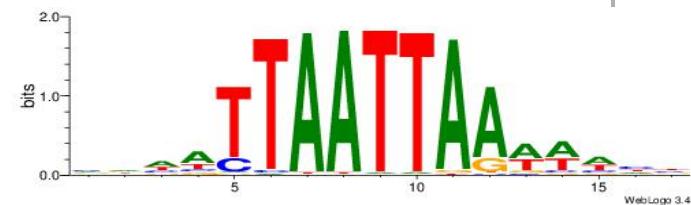
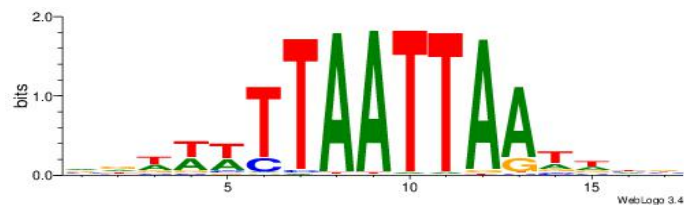
VDWWWTTAATTAATDHB
--TTATWAWCTAA----

Original motif

Consensus sequence: VDWWWTTAATTAATDHB

Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB

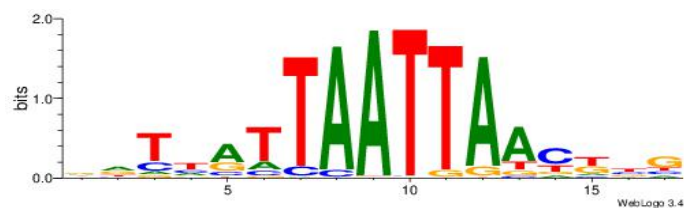


Motif ID: [UP00196](#)
 Motif name: Hoxa4
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0396152

Alignment:
 DDTHATTAATTAACKBG
 --TTATWAWCTAA----

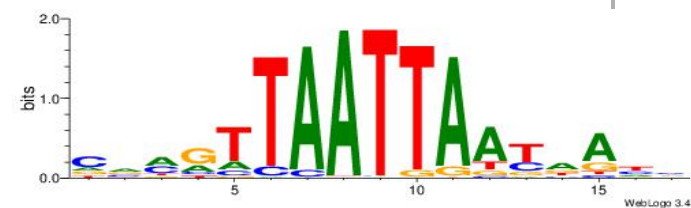
Original motif

Consensus sequence: DDTHATTAATTAACKBG



Reverse complement motif

Consensus sequence: CVRGTTAATTAATHADH



Motif ID: [UP00142](#)

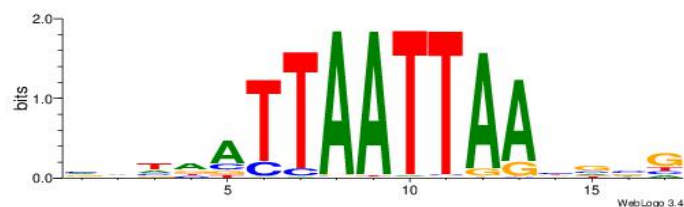
Motif name: Uncx4.1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.03971

Alignment:

VDHDATTAATTAABVVG
 --TTATWAWCTAA----

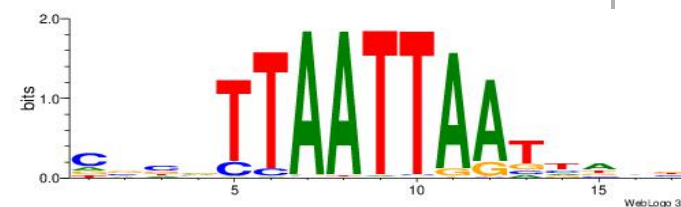
Original motif

Consensus sequence: VDHDATTAATTAABVVG



Reverse complement motif

Consensus sequence: CVVBTTAATTAATDHDV



Motif ID: [UP00264](#)
 Motif name: Hoxa1
 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: 11

Similarity score: 0.0401139

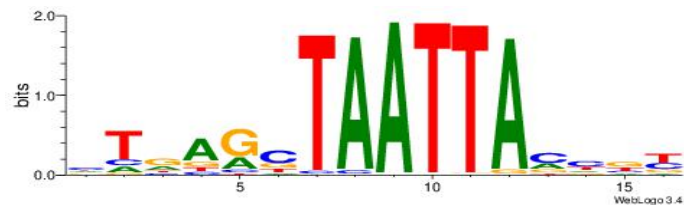
Alignment:

MBDRTAATTAGCTHAD

----TTATWAWCTAA-

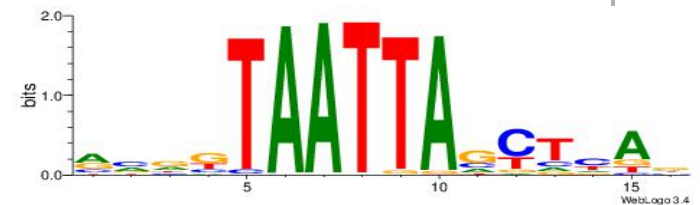
Original motif

Consensus sequence: HTDAGCTAATTAMHBY



Reverse complement motif

Consensus sequence: MBDRTAATTAGCTHAD



Motif ID: [UP00023](#)

Motif name: Sox30_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: 0.0405076

Alignment:

VVYATTATAATBDHA

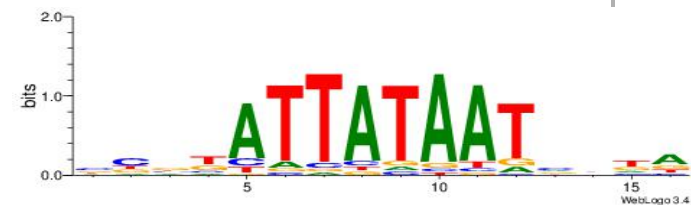
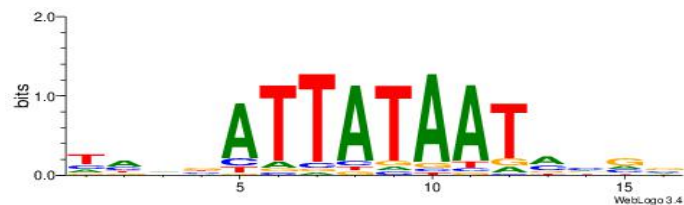
-----TTATWAWCTAA

Original motif

Consensus sequence: THDBATTATAATMVVV

Reverse complement motif

Consensus sequence: VVYATTATAATBDHA



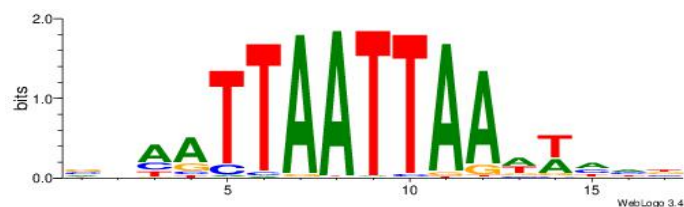
Motif ID: [UP00130](#)
 Motif name: Lhx3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0405397

Alignment:

VDAATTAATTAAWWHHB
 ----TTAGWTWATAA--

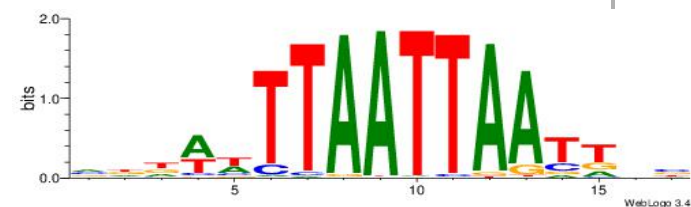
Original motif

Consensus sequence: VDAATTAATTAAWWHHB



Reverse complement motif

Consensus sequence: VHHWWTTAATTAATTDV



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

Original motif

Consensus sequence: TTCWTAGATTAWA



Reverse complement motif

Consensus sequence: TWTAACTATGAA



Best Matches for Motif ID 19 (Highest to Lowest)

Motif ID:	UP00208
Motif name:	Obox5_2284.1
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0233931

Alignment:

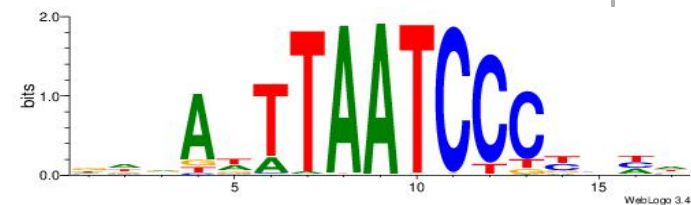
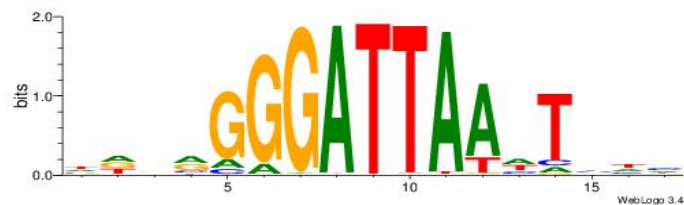
```
DHHAHTTAATCCCKVDH
----TWTAACTATGAA
```

Original motif

Consensus sequence: HDVRGGGATTAAHTHHH

Reverse complement motif

Consensus sequence: DHHAHTTAATCCCKVDH

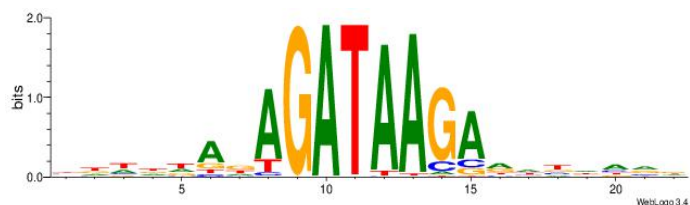


Motif ID: [UP00032](#)
 Motif name: Gata3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 13
 Similarity score: 0.0251817

Alignment:
 HBHDVHDTCTTATCTHTDDHDV
 -----TWTAACTCTAWGAA--

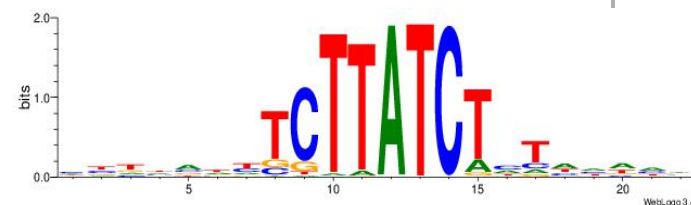
Original motif

Consensus sequence: BDHDDADAGATAAGADHBDHVD



Reverse complement motif

Consensus sequence: HBHDVHDTCTTATCTHTDDHDV



Motif ID: [UP00208](#)

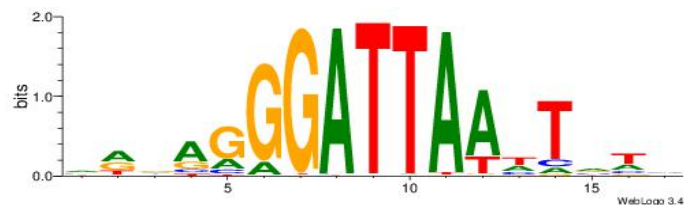
Motif name: Obox5_3963.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 13
 Similarity score: 0.026815

Alignment:

VWBAHTTAATCCCTVKB
 ----TWTAATCTAWGAA

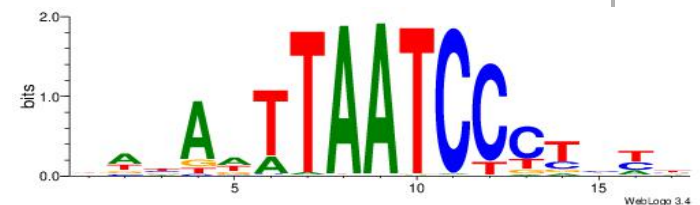
Original motif

Consensus sequence: VRVAGGGATTAAHTVWV



Reverse complement motif

Consensus sequence: VWBAHTTAATCCCTVKB



Motif ID: [UP00188](#)
 Motif name: Lmx1a
 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: 13

Similarity score: 0.02879

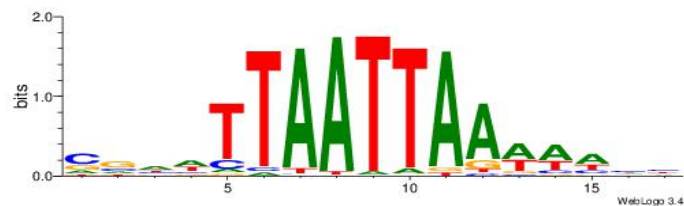
Alignment:

BDWWTTAATTAAHHVG

-TTCWTAGATTAWA---

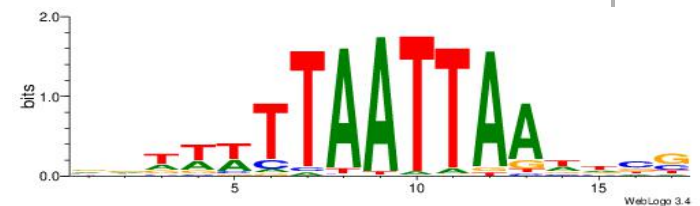
Original motif

Consensus sequence: CVHHTTAATTAAWWWHB



Reverse complement motif

Consensus sequence: BDWWTTAATTAAHHVG



Motif ID: [UP00109](#)
Motif name: Obox6
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: 0.028848

Alignment:

AHAADCGGATTAWHB

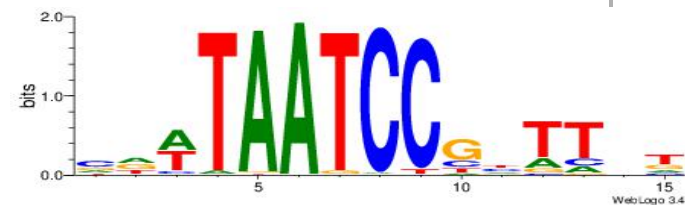
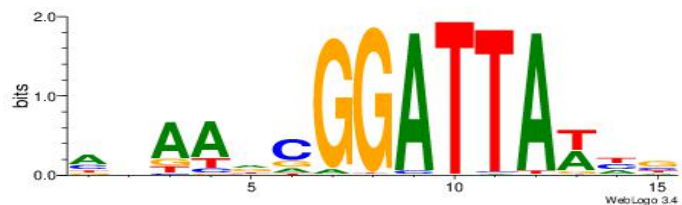
-TTCWTAGATTAWA-

Original motif

Consensus sequence: AHAADCGGATTAWHB

Reverse complement motif

Consensus sequence: BHWTAATCCGDTTHT



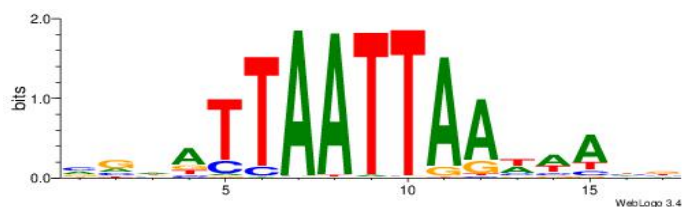
Motif ID: [UP00262](#)
 Motif name: Lhx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 13
 Similarity score: 0.0301327

Alignment:

BHTWWTTAATTAATDVV
 -TTCWTAGATTAWA---

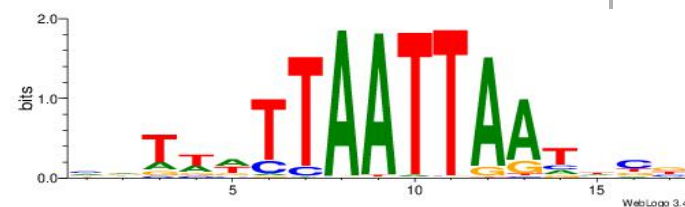
Original motif

Consensus sequence: VVDATTAATTAAWWAHB



Reverse complement motif

Consensus sequence: BHTWWTTAATTAATDVV



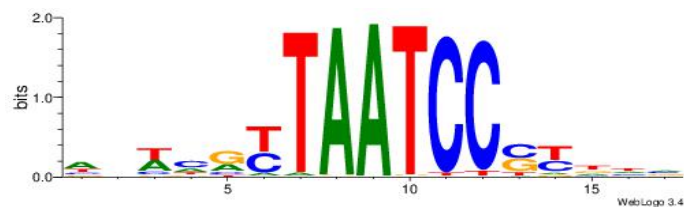
Motif ID: [UP00112](#)
 Motif name: Gsc
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 13
 Similarity score: 0.0301882

Alignment:

BHDMSGGATTAMMDWBH
 TTCWTAGATTAWA----

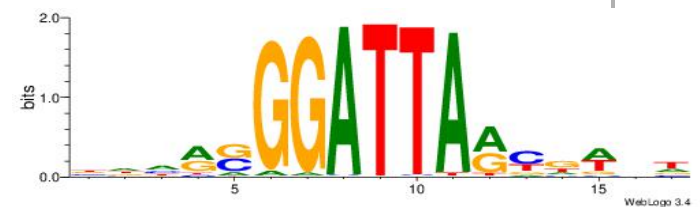
Original motif

Consensus sequence: HVWHRYTAATCCSYDHV



Reverse complement motif

Consensus sequence: BHDMSGGATTAMMDWBH



Motif ID: [UP00169](#)
 Motif name: Lmx1b
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4

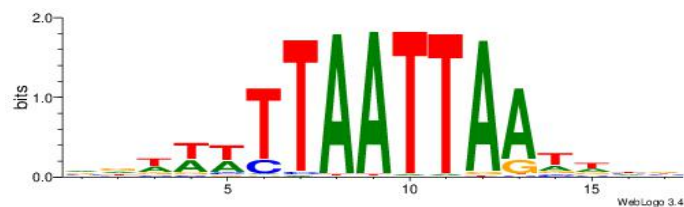
Number of overlap: 13
Similarity score: 0.0307426

Alignment:

BHDATTAATTAAWWWHB
---TWTAACTAWGAA-

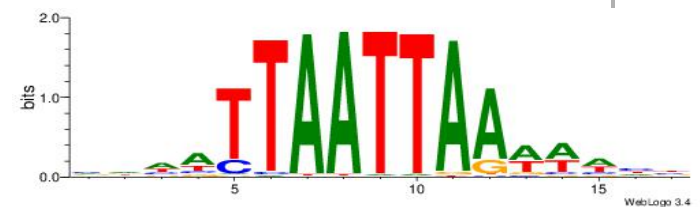
Original motif

Consensus sequence: VDWWTTAATTAATDHB



Reverse complement motif

Consensus sequence: BHDATTAATTAAWWWHB



Motif ID: [UP00129](#)
Motif name: Pou3f1
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: 13
Similarity score: 0.0308362

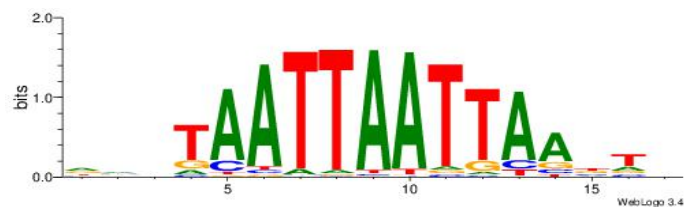
Alignment:

DVBTAATTAATTAABTH
-TWTAACTAWGAA---

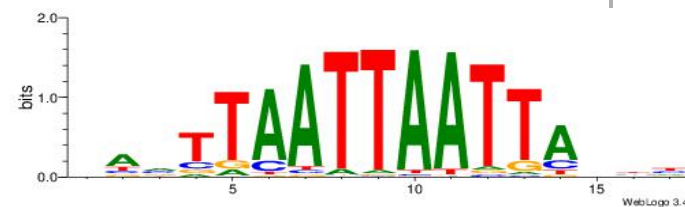
Original motif

Reverse complement motif

Consensus sequence: DVBTAATTAATTAABTH



Consensus sequence: DAVTTAATTAATTAVBD



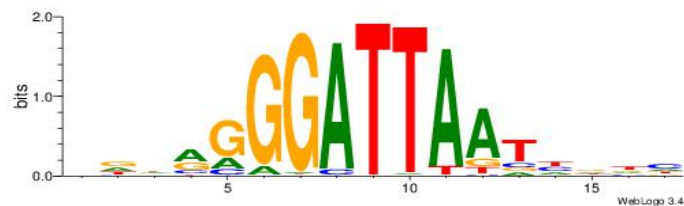
Motif ID: [UP00267](#)
Motif name: Otx2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.031113

Alignment:

DDHHATTAATCCCKDHD
----TWTAAATCTAWGAA

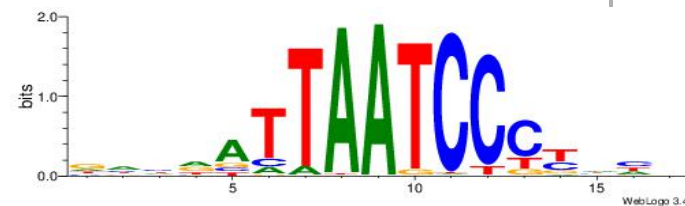
Original motif

Consensus sequence: DDRGGGATTAATHDDH



Reverse complement motif

Consensus sequence: DDHHATTAATCCCKDHD



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

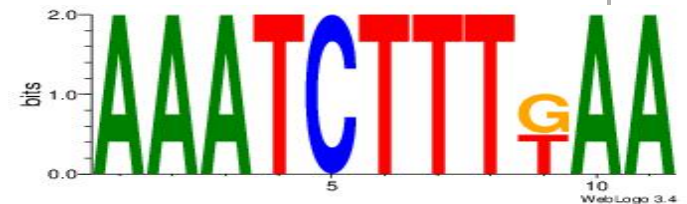
Original motif

Consensus sequence: TTMAAAGATTT



Reverse complement motif

Consensus sequence: AAATCTTTYAA



Best Matches for Motif ID 20 (Highest to Lowest)

Motif ID:	UP00145
Motif name:	Barhl2
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0251004

Alignment:

HAMAAHCAATTAABHH

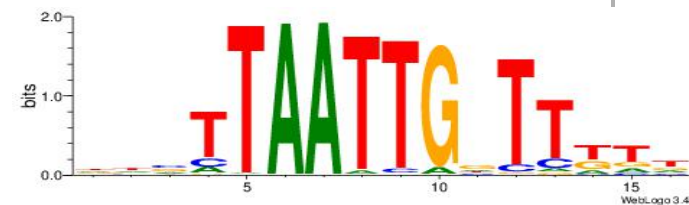
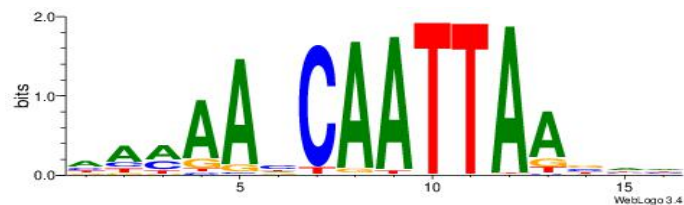
--AAATCTTTYAA---

Original motif

Consensus sequence: HAMAAHCAATTAABHH

Reverse complement motif

Consensus sequence: HHBTTAATTGDDTTYTH

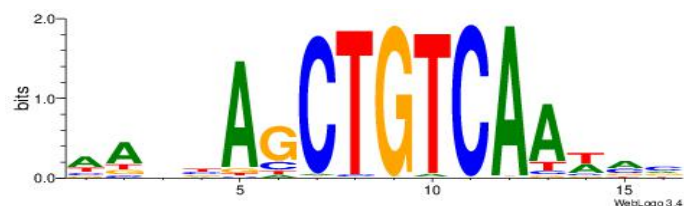


Motif ID: [UP00258](#)
 Motif name: Tgif2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0274736

Alignment:
 AABBAGCTGTCAAWVV
 --AAATCTTTYAA--

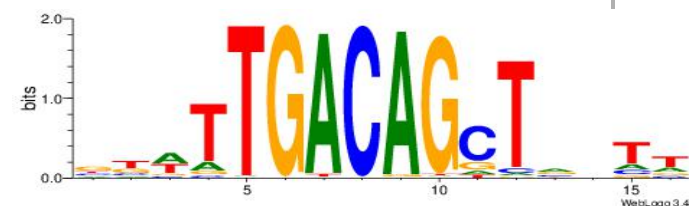
Original motif

Consensus sequence: AABBAGCTGTCAAWVV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



Motif ID: [UP00067](#)

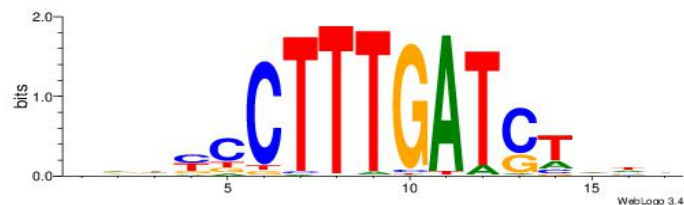
Motif name: Lef1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.0280825

Alignment:

VDDAGATCAAAGGKDDD
 -----TTMAAAGATTT-

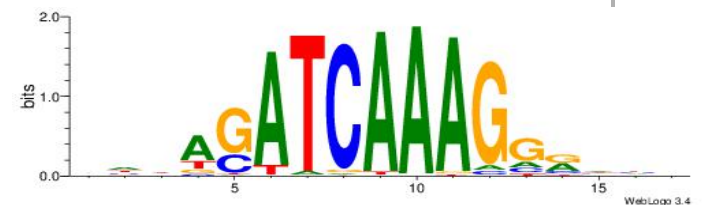
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

Consensus sequence: VDDAGATCAAAGGKDDD



Motif ID: [UP00203](#)
 Motif name: Pknox1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11

Similarity score: 0.0285392

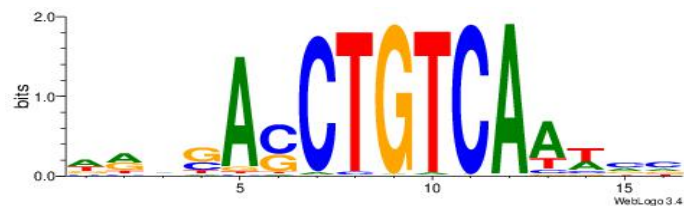
Alignment:

DRVSASCTGTCAAWVV

--AAATCTTTYAA---

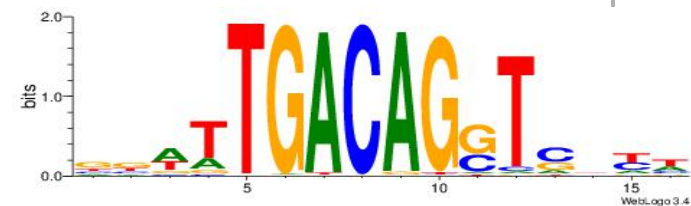
Original motif

Consensus sequence: DRVSASCTGTCAAWVV



Reverse complement motif

Consensus sequence: VVWTTGACAGSTSBKD



Motif ID: [UP00186](#)
Motif name: Meis1
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: 11
Similarity score: 0.0294621

Alignment:

WAVBASCTGTCAAWVH

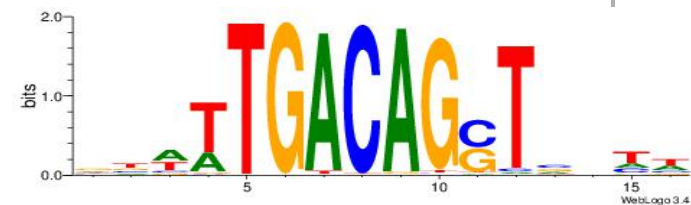
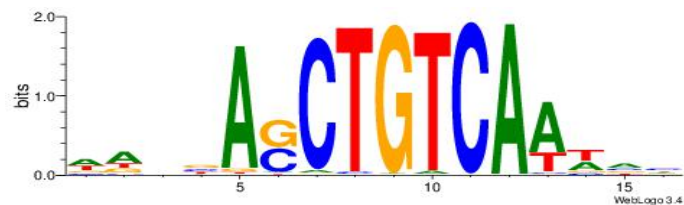
--AAATCTTTYAA---

Original motif

Consensus sequence: WAVBASCTGTCAAWVH

Reverse complement motif

Consensus sequence: DBWTTGACAGSTBVTW



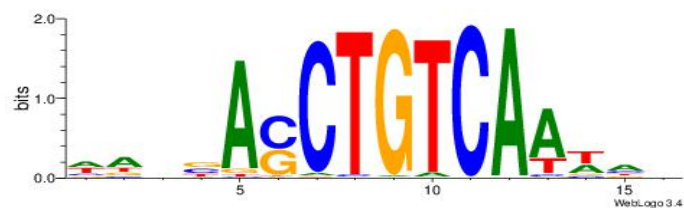
Motif ID: [UP00226](#)
 Motif name: Mrg1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0296127

Alignment:

WAVBASCTGTCAAWHB
 --AAATCTTTYAA--

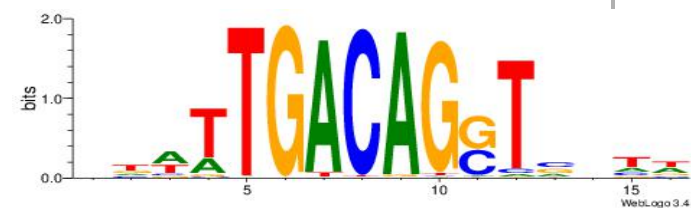
Original motif

Consensus sequence: WAVBASCTGTCAAWHB



Reverse complement motif

Consensus sequence: BHWTTGACAGSTBBTW



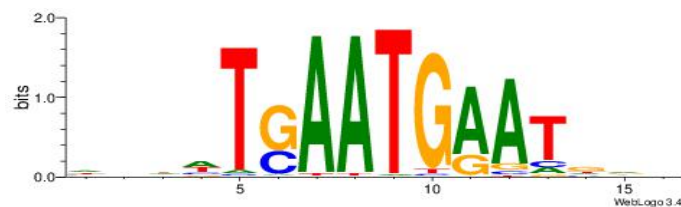
Motif ID: [UP00055](#)
 Motif name: Hbp1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.030034

Alignment:

VDHATTCATTSAWDDH
 --AAATCTTTYAA---

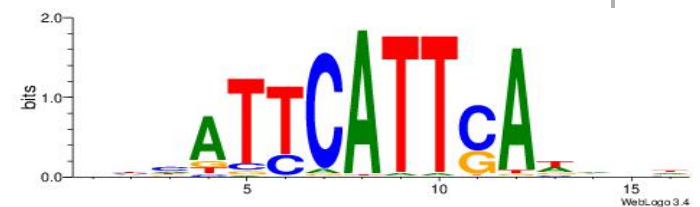
Original motif

Consensus sequence: HHDWTSATGAATDDB



Reverse complement motif

Consensus sequence: VDHATTCATTSAWDDH



Motif ID: [UP00148](#)
 Motif name: Hdx
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 11

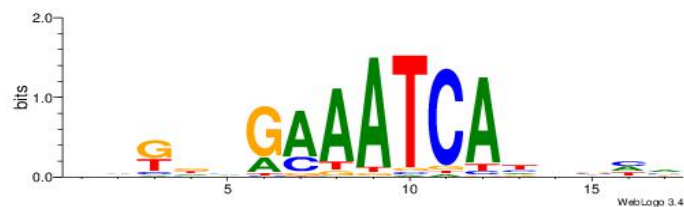
Similarity score: 0.0308277

Alignment:

BDBDHTGATTTC DHYDD
-----AAATCTTTYAA

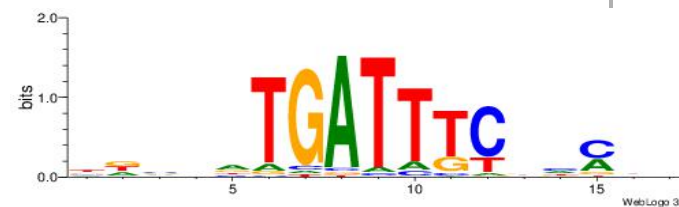
Original motif

Consensus sequence: DDKDHGAAATCAHHBHV



Reverse complement motif

Consensus sequence: BDBDHTGATTTC DHYDD



Motif ID: [UP00059](#)
Motif name: Arid5a_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0312649

Alignment:

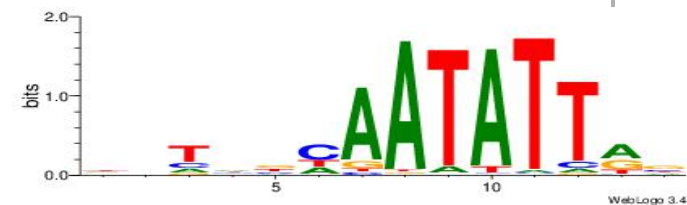
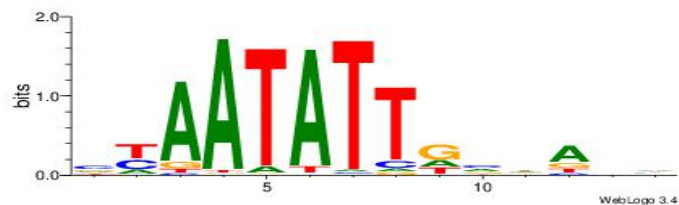
HDTDVCAATATTMV
--TTMAAAGATTT-

Original motif

Consensus sequence: VYAATATTGVADAH

Reverse complement motif

Consensus sequence: HDTDVCAATATTMV

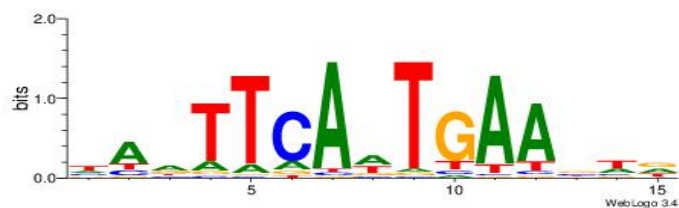


Motif ID: [UP00012](#)
 Motif name: Bbx_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0314419

Alignment:
 HWBTTCAWTGAADTH
 ---TTMAAAGATTT-

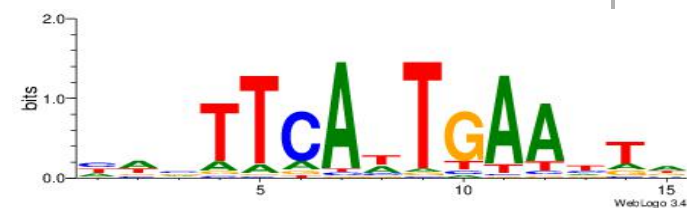
Original motif

Consensus sequence: HADTTCAWTGAABWD



Reverse complement motif

Consensus sequence: HWBTTCAWTGAADTH



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

Original motif

Consensus sequence: ATAAAA



Reverse complement motif

Consensus sequence: TTTTAT



Best Matches for Motif ID 21 (Highest to Lowest)

Motif ID: [UP00180](#)
Motif name: Hoxd13
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 6
Similarity score: 0

Alignment:

HDHHTTTTATTKKHDD

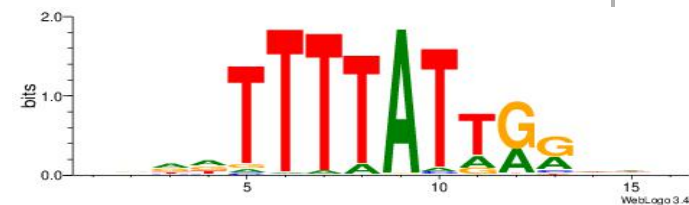
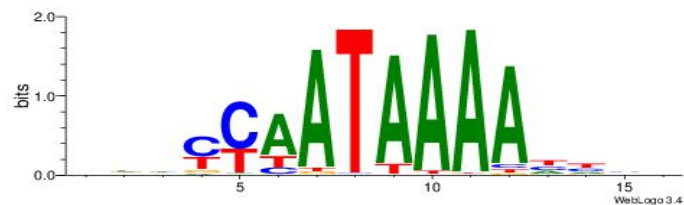
----TTTTAT-----

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD

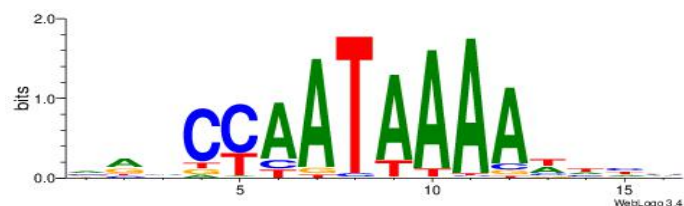


Motif ID: [UP00134](#)
 Motif name: Hoxb13
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00902808

Alignment:
 VRHCCAATAAAWHHV
 -----ATAAAA-----

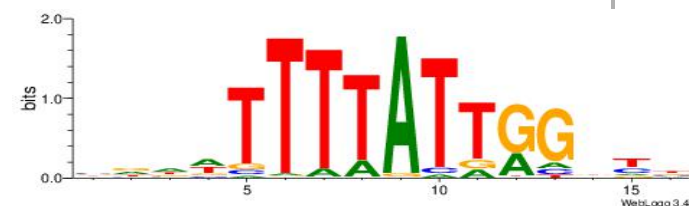
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWT TTTTATTGGDKB



Motif ID: [UP00207](#)

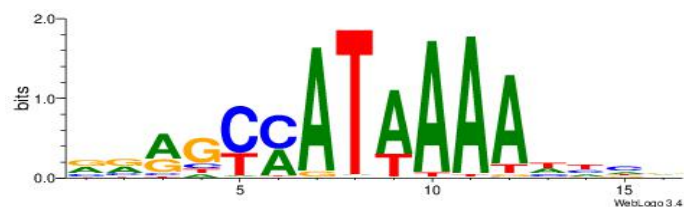
Motif name: Hoxb9
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00908997

Alignment:

VRRGCMATAAAHHHD
 -----ATAAAA-----

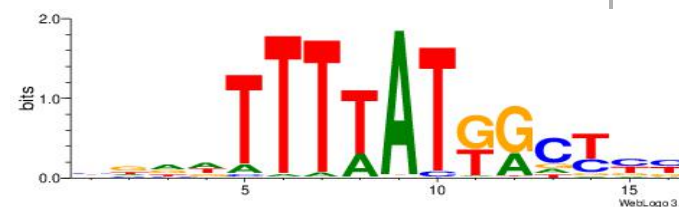
Original motif

Consensus sequence: VRRGCMATAAAHHHD



Reverse complement motif

Consensus sequence: HDHHTTTTATRGCKMV



Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 6

Similarity score: 0.0141617

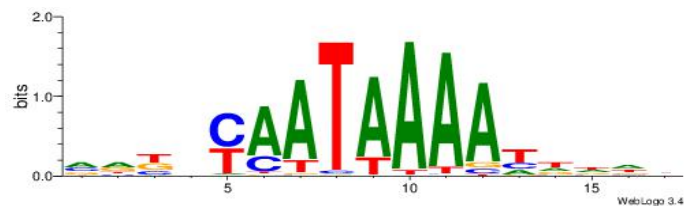
Alignment:

VDKVYAATAAAATDDDH

-----ATAAAA-----

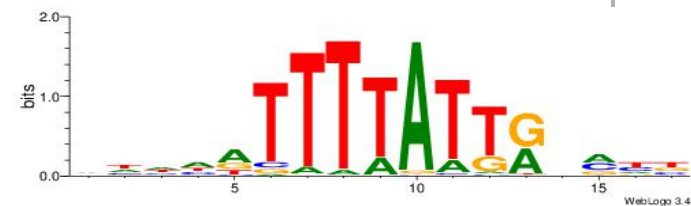
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



Motif ID: [UP00133](#)
Motif name: Cdx2
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: 0.0156625

Alignment:

DVVGGMATAAAAHKH

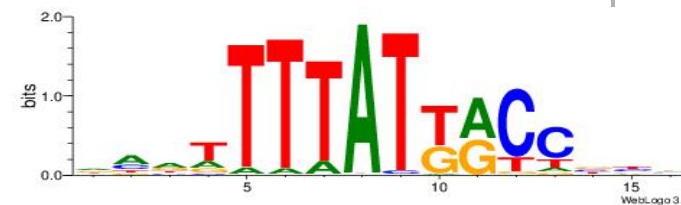
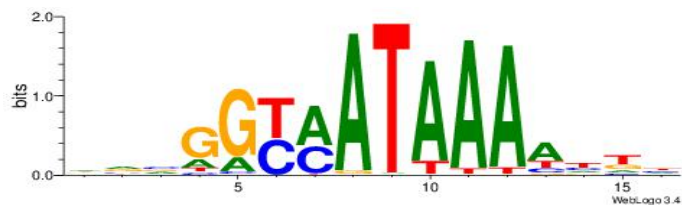
-----ATAAAA---

Original motif

Consensus sequence: DVVGGMATAAAAHKH

Reverse complement motif

Consensus sequence: HRHTTTTATYMCCVBD



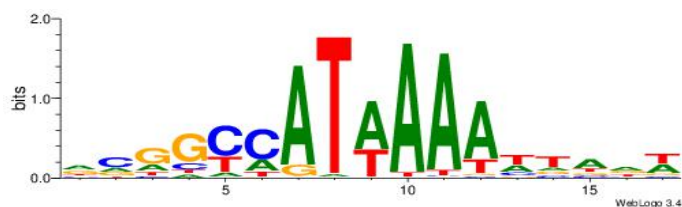
Motif ID: [UP00213](#)
 Motif name: Hoxa9
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0225404

Alignment:

WDTAWTTTWATGKCCGD
 -----TTTTAT-----

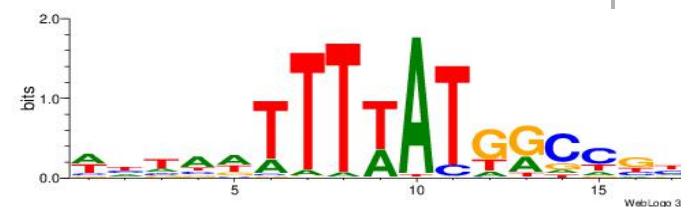
Original motif

Consensus sequence: DCGGYCATWAAAWTADW



Reverse complement motif

Consensus sequence: WDTAWTTTWATGKCCGD



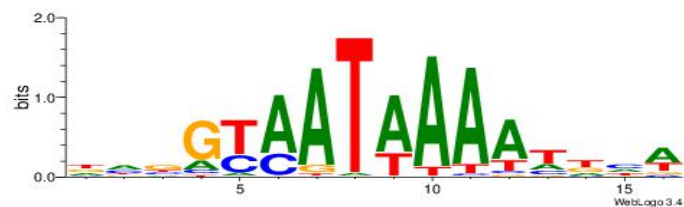
Motif ID: [UP00217](#)
 Motif name: Hoxa10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 6
 Similarity score: 0.0259142

Alignment:

WDDATTTTATTMCBHD
 ----TTTAT-----

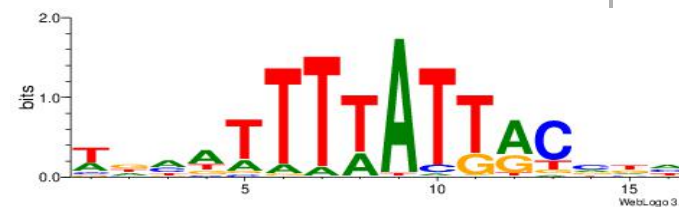
Original motif

Consensus sequence: DHBGYAATAAAATDHW



Reverse complement motif

Consensus sequence: WDDATTTTATTMCBHD



Motif ID: [UP00240](#)
 Motif name: Cdx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4

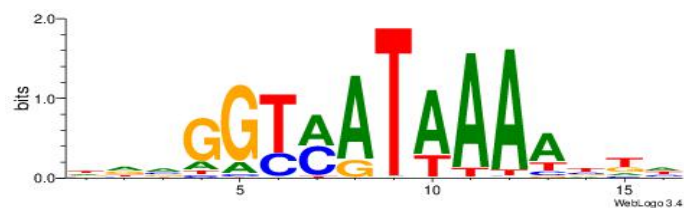
Number of overlap: 6
Similarity score: 0.026022

Alignment:

DDVGGTMATAAAABKH
-----ATAAAA---

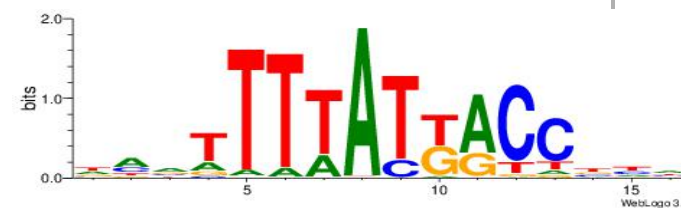
Original motif

Consensus sequence: DDVGGTMATAAAABKH



Reverse complement motif

Consensus sequence: HRVTTTTATYACCBDD



Motif ID: [UP00173](#)
Motif name: Hoxc13
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: 0.033825

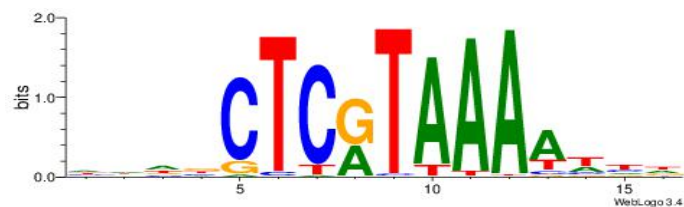
Alignment:

HHDBCTCRTAAAAWHD
-----ATAAAA---

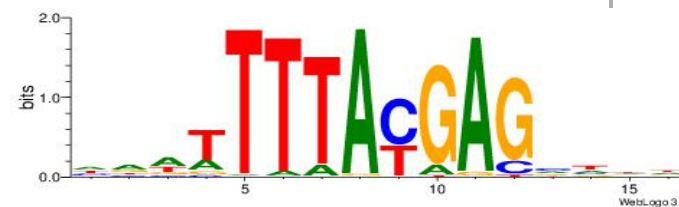
Original motif

Reverse complement motif

Consensus sequence: HHDBCTCRTAAAWHD



Consensus sequence: DHWTTTTAMGAGBDHH



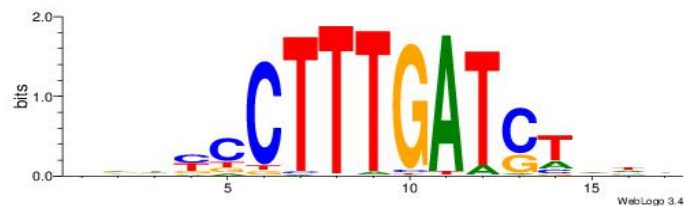
Motif ID: [UP00067](#)
Motif name: Lef1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 6
Similarity score: 0.0353549

Alignment:

```
DDDYCCTTTGATCTDDV  
-----TTTAT-----
```

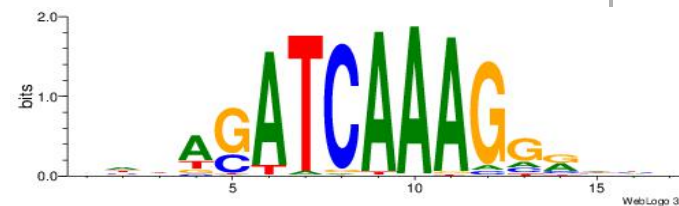
Original motif

Consensus sequence: DDDYCCTTTGATCTDDV



Reverse complement motif

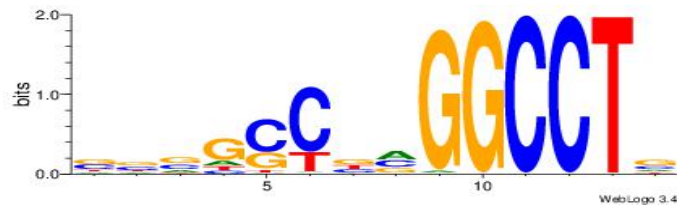
Consensus sequence: VDDAGATCAAAGKDDD



Dataset #: 3 **Motif ID: 22** **Motif name: Zfx**

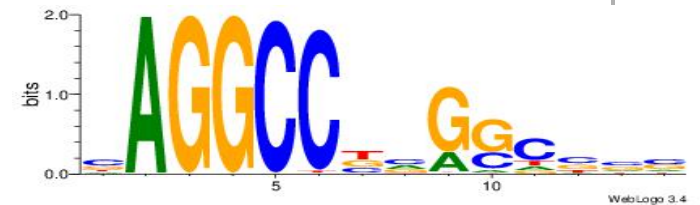
Original motif

Consensus sequence: BBVGCCBVGGCCTV



Reverse complement motif

Consensus sequence: VAGGCCBBGGCVBB



Best Matches for Motif ID 22 (Highest to Lowest)

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

Alignment:

HHRCCBBWGGDCDB

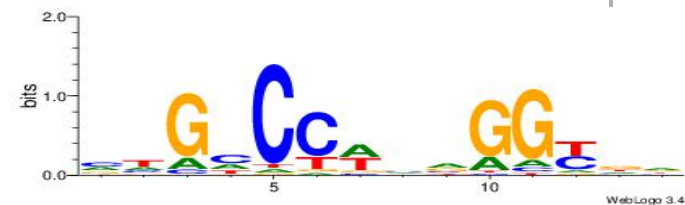
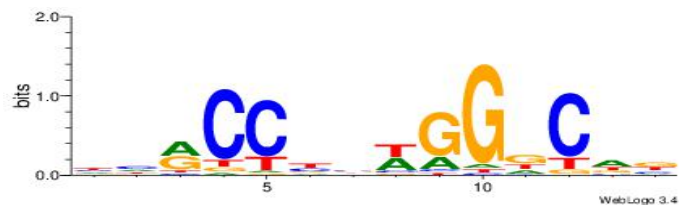
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

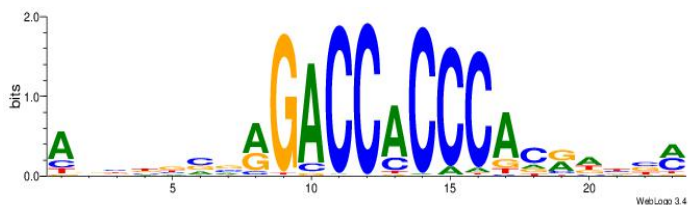
Consensus sequence: BDGHCCWBVGGKDH



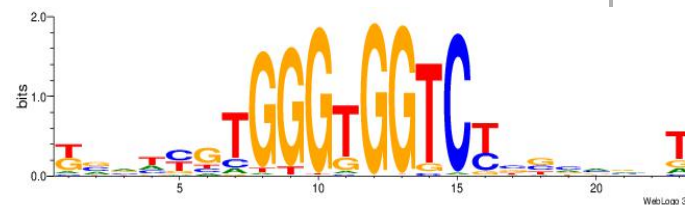
Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0603516

Alignment:
 ABBBBVVRGACCACCCACRDBBM
 BBVGCCBVGGCCTV-----

Original motif
 Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif
 Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)
 Motif name: Sp4_primary

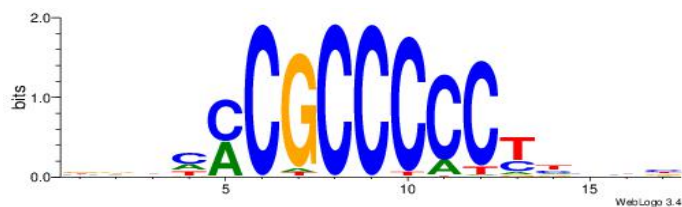
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0604694

Alignment:

```
BDHHMCGCCCCCTHVBB
---VAGGCCBBGGCVBB
```

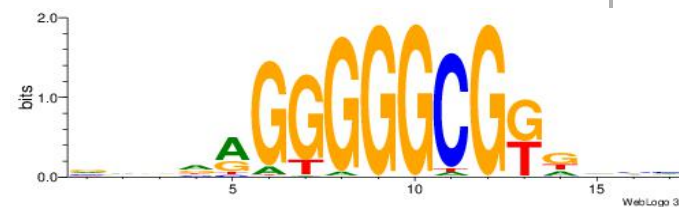
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



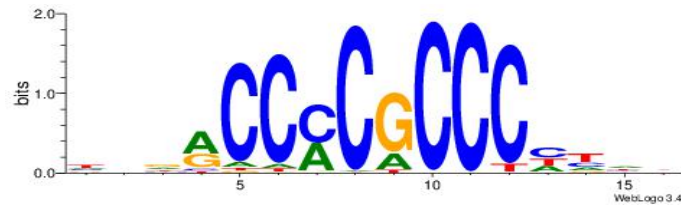
Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0606067

Alignment:

HBDRCMCGCCCHHHD
BBVGCCBVGGCCTV--

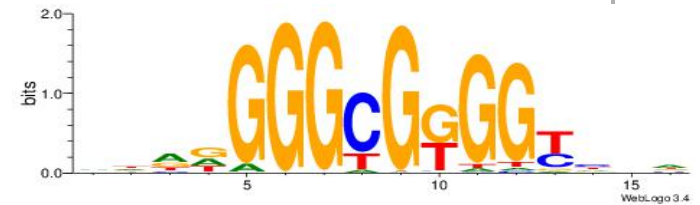
Original motif

Consensus sequence: HBDRCMCGCCCHHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



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

Alignment:

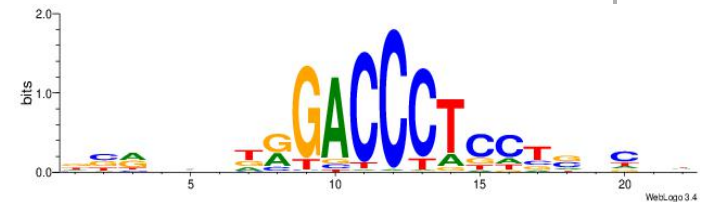
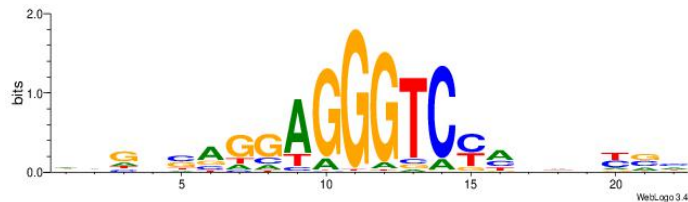
HVGVSAGGAGGGTCYHHHHYVH
-----VAGGCCBBGGCVBB

Original motif

Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

Reverse complement motif

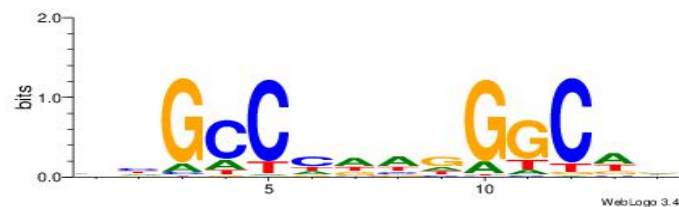
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



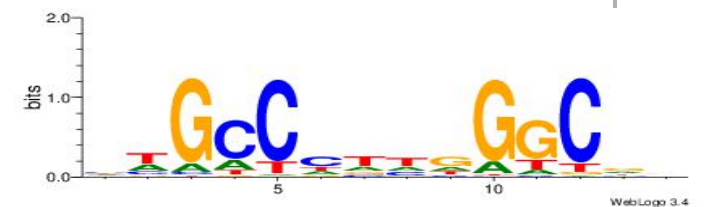
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0608063

Alignment:
 HWGCCCTDGGGCDB
 VAGGCCBBGGCVBB

Original motif
 Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif
 Consensus sequence: HWGCCCTDGGGCDB



Motif ID: [UP00540](#)

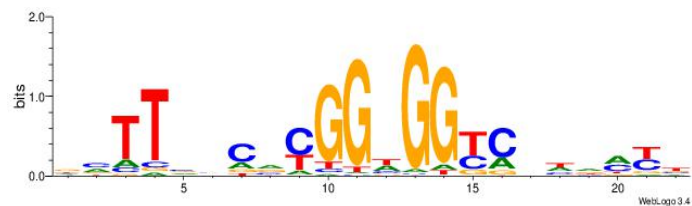
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0615001

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
 ----BBVGCCBVGGCCTV----

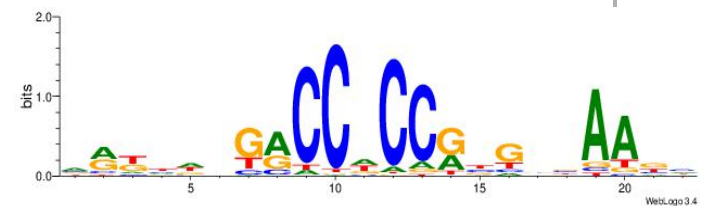
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKKBGVVAAVH



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

Similarity score: 0.0624288

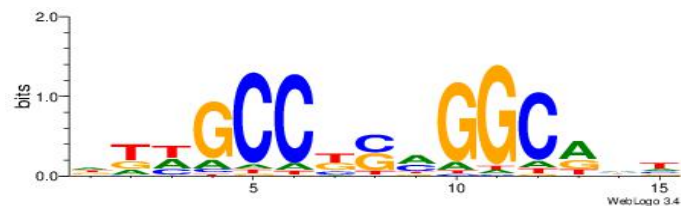
Alignment:

HHKGCCYSRGGCWAD

-BBVGCCBVGGCCTV

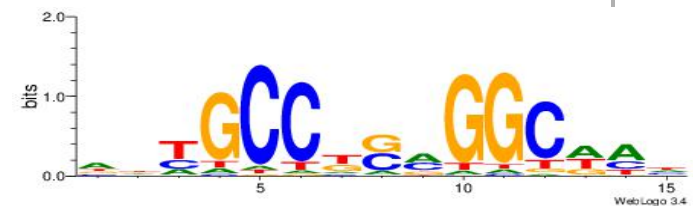
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



Motif ID: [UP00082](#)
Motif name: Zfp187_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0627664

Alignment:

VHMDGGACVAGGRCDH

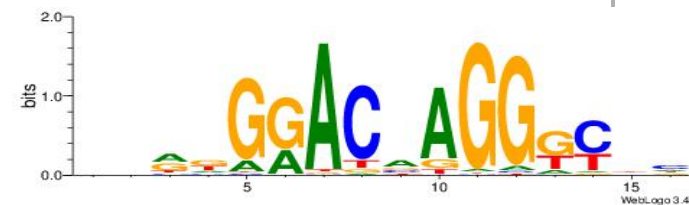
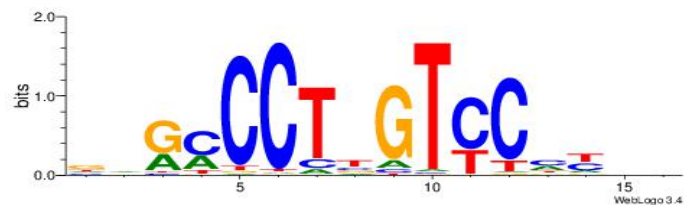
VAGGCCBBGGCVBB--

Original motif

Consensus sequence: DDGMCCTBGTCHYHV

Reverse complement motif

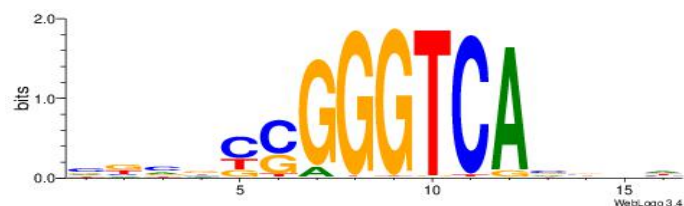
Consensus sequence: VHMDGGACVAGGRCDH



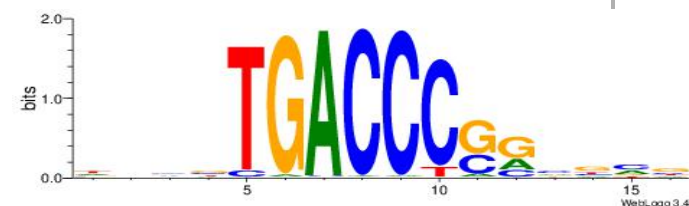
Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0636529

Alignment:
 HVBVTGACCCSGBVBV
 --VAGGCCBBGGCVBB

Original motif
 Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif
 Consensus sequence: HVBVTGACCCSGBVBV



Dataset #: 3 Motif ID: 23 Motif name: Egr1

Original motif

Consensus sequence: HGCGTGGGCGK



Reverse complement motif

Consensus sequence: YGCCCCACGCH



Best Matches for Motif ID 23 (Highest to Lowest)

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

Alignment:

VVVDHHTGCGYGGGCGDHHVHHTB

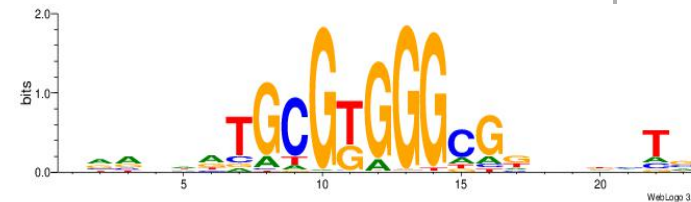
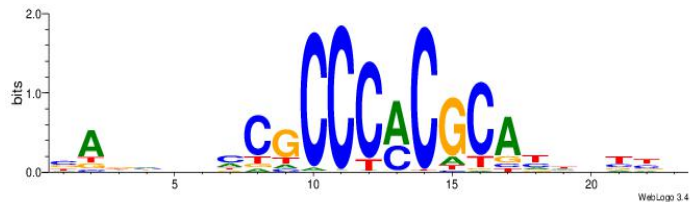
-----HGCGTGGGCGK-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB

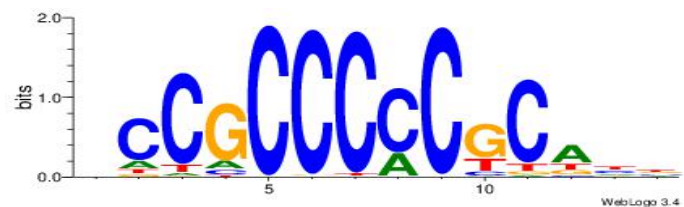


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00727533

Alignment:
 HCCGCCCCCGCAHB
 -YCGCCCACGCH--

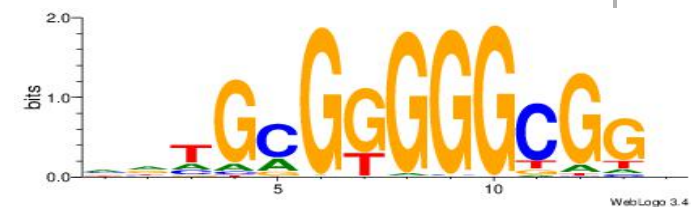
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00538](#)

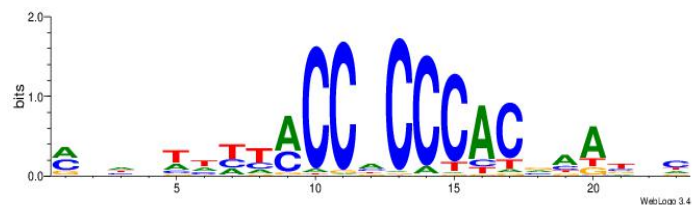
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 10
 Number of overlap: 11
 Similarity score: 0.0262579

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----YCGCCCACGCH---

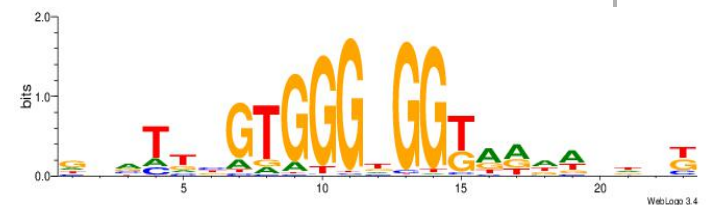
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

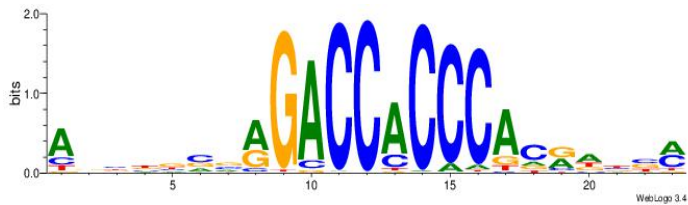


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11

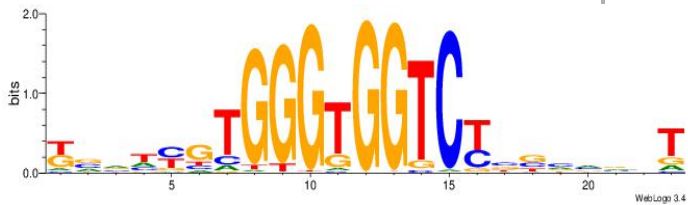
Similarity score: 0.0297053

Alignment:
YBVDMGTGGGTGGTCKVVBVBBT
--HCGGTGGGCGK-----

Original motif
Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif
Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT

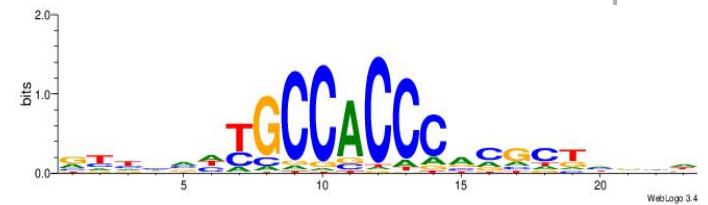
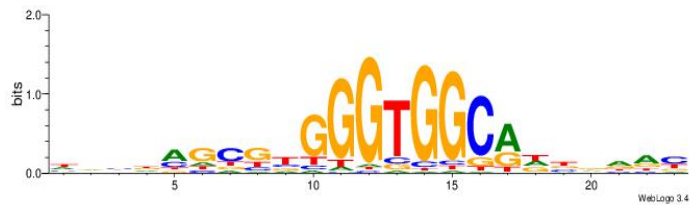


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0318144

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

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

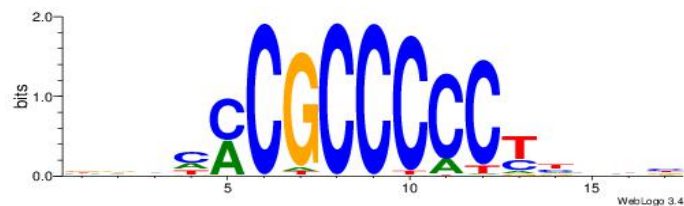
Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



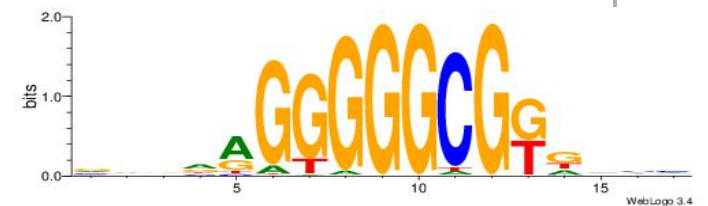
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0345009

Alignment:
 BVVHAGGGGGCGRDHHB
 --HGCGTGGGCGK----

Original motif
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif
 Consensus sequence: BVVHAGGGGGCGRDHHB



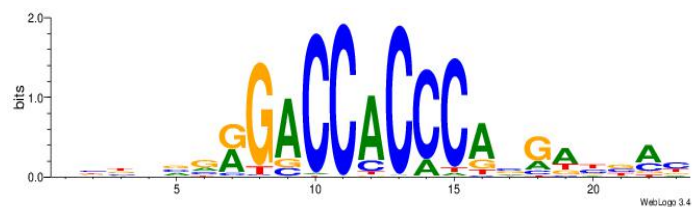
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0353502

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
 ---HGCGTGGGCGK-----

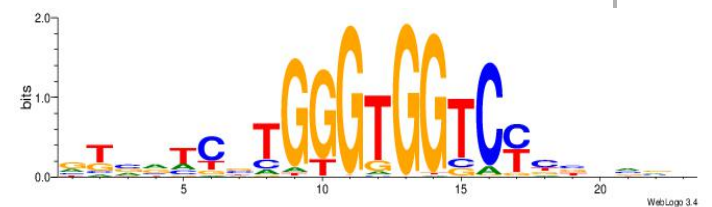
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

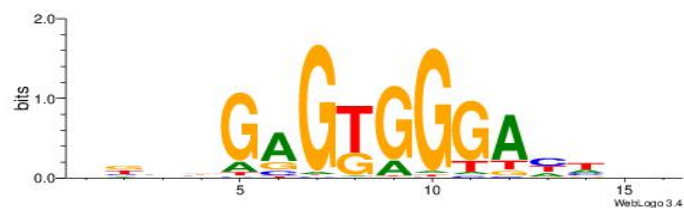
Number of overlap: 11
Similarity score: 0.0360229

Alignment:

BHHDTCCTCACTCBDBV
--YCGCCCACGCH---

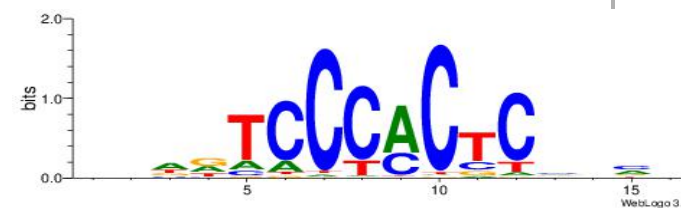
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0362743

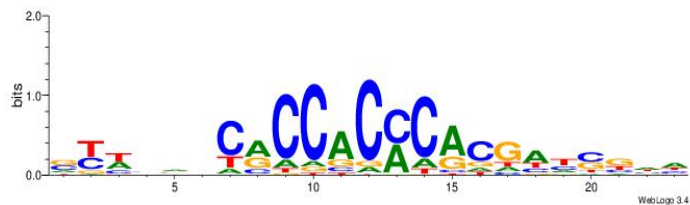
Alignment:

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

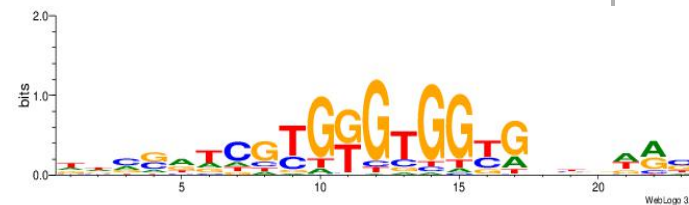
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



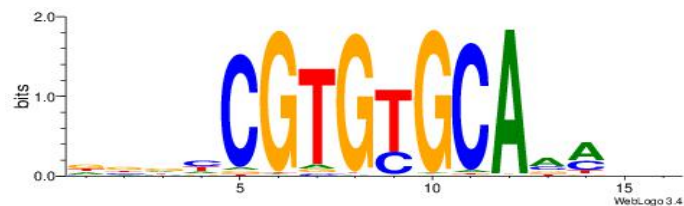
Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0386944

Alignment:

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

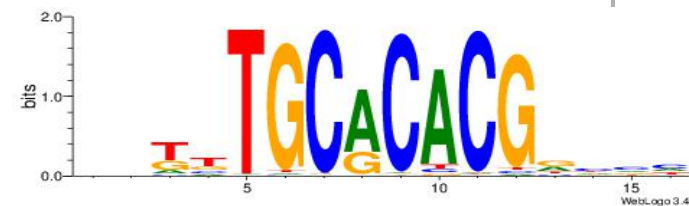
Original motif

Consensus sequence: DBDHC GTGTGCAAMDH



Reverse complement motif

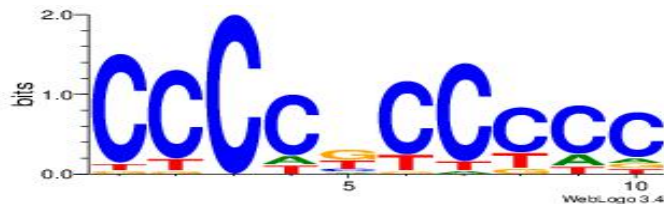
Consensus sequence: HDYTTGCACACGDHBH



Dataset #: 3 **Motif ID: 24** **Motif name: SP1**

Original motif

Consensus sequence: CCCCKCCCCC



Reverse complement motif

Consensus sequence: GGGGGYGGGG



Best Matches for Motif ID 24 (Highest to Lowest)

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

Alignment:

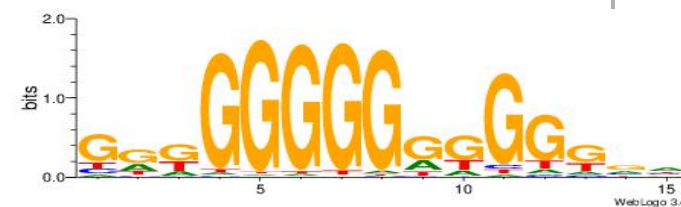
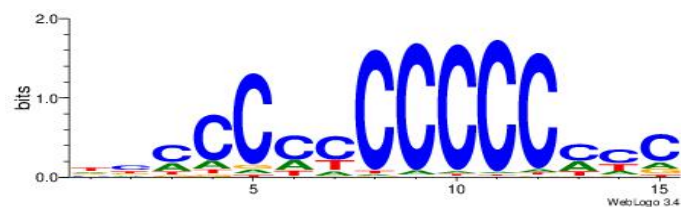
```
DBCCCCCCCCCMYC
--CCCCKCCCCC---
```

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

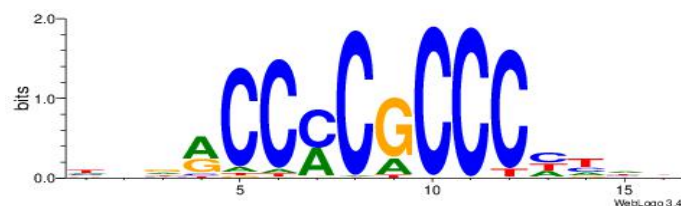


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0303207

Alignment:
 HBDRCMCGCCCHHD
 ----CCCCKCCCC--

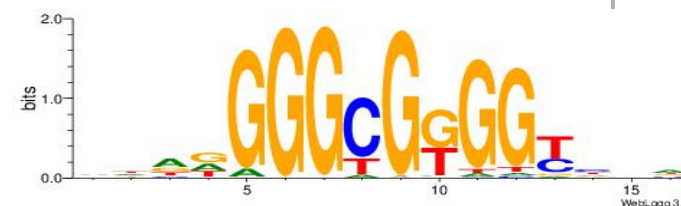
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00033](#)

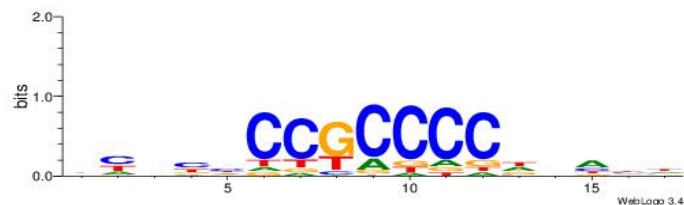
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0323007

Alignment:

HHHHDGGGGCGGDBHDV
 ----GGGGGYGGG---

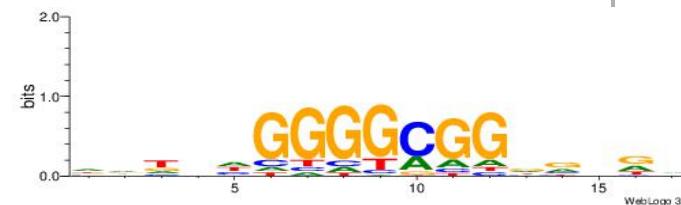
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

Similarity score: 0.0340973

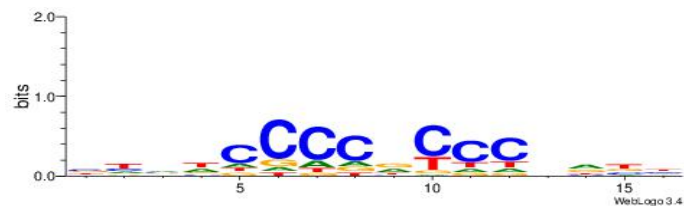
Alignment:

HVDVGGGHGGGGDBHB

--GGGGGYGGGG----

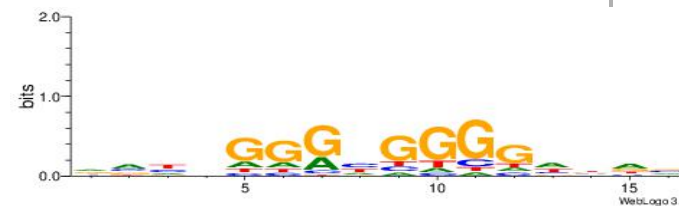
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH

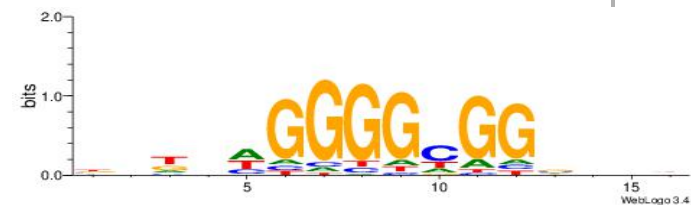
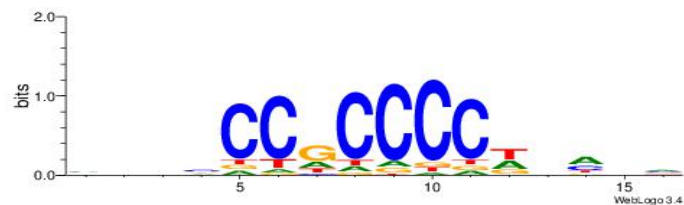
----GGGGGYGGGG--

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



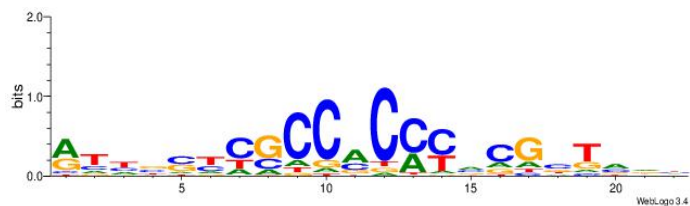
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0390437

Alignment:

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

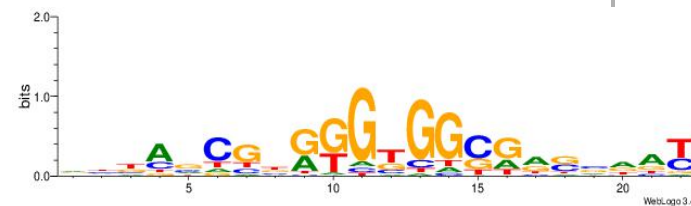
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



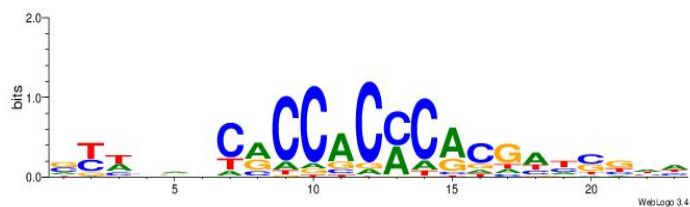
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0393358

Alignment:

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

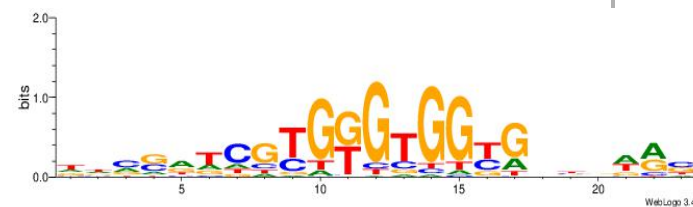
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



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

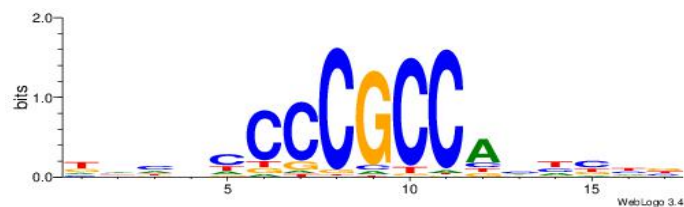
Number of overlap: 10
Similarity score: 0.0413863

Alignment:

DHHBCCCCGCCAHHBHB
----CCCCKCCCC--

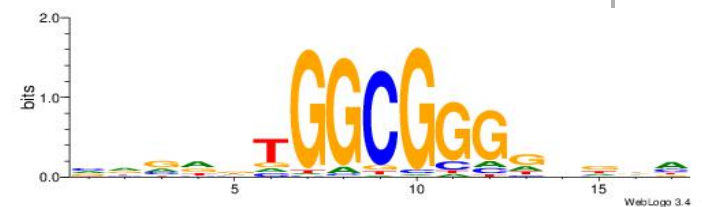
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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

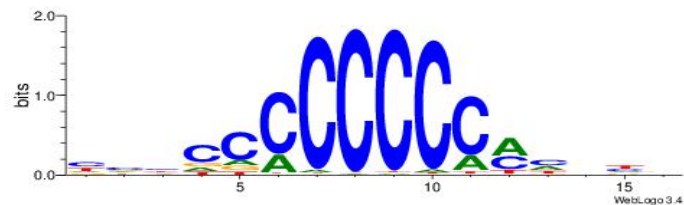
Alignment:

HVBCCCCCCCCMHHHB
---CCCCKCCCC--

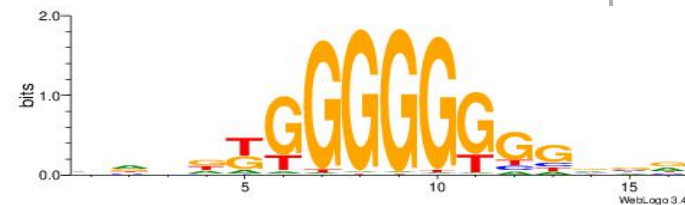
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



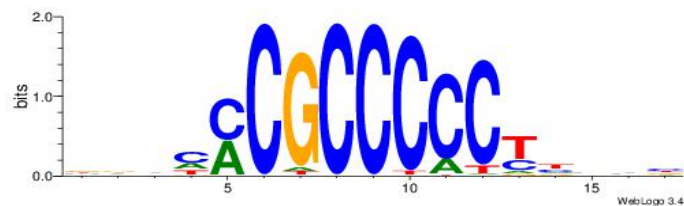
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0420708

Alignment:

BDHHMCGCCCCCTHVBB
--CCCCKCCCC-----

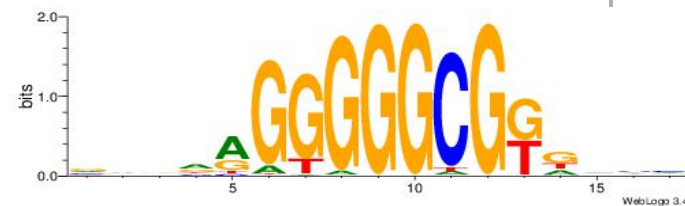
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

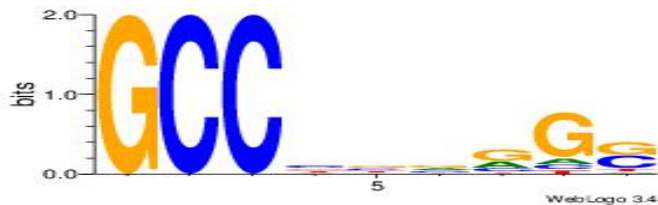
Consensus sequence: BVVHAGGGGGGCGRDHHB



Dataset #: 3 **Motif ID: 25** **Motif name: TFAP2A**

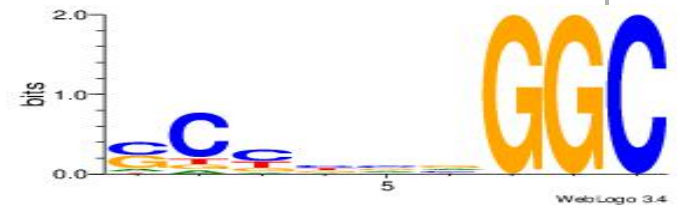
Original motif

Consensus sequence: GCCBBVRGS



Reverse complement motif

Consensus sequence: SCMVBGGC



Best Matches for Motif ID 25 (Highest to Lowest)

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

Alignment:

HHKGCCYSRGGCWAD

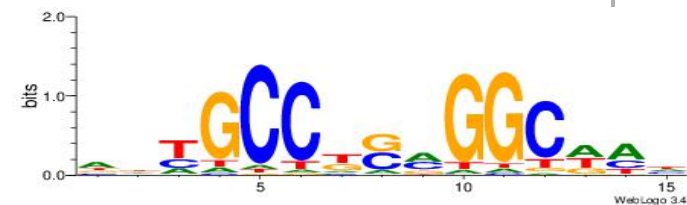
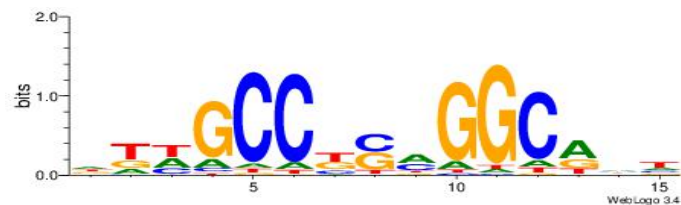
---GCCBBVRGS---

Original motif

Consensus sequence: DTWGCKSMGGCRHH

Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

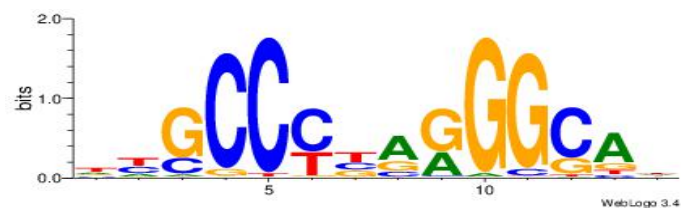


Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 9
 Similarity score: 0.0150447

Alignment:
 DYGCCYBARGGCAH
 --GCCBBVRGS---

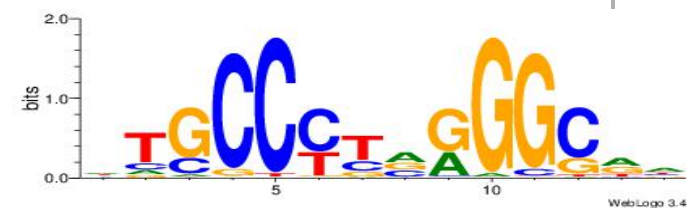
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



Motif ID: [UP00005](#)

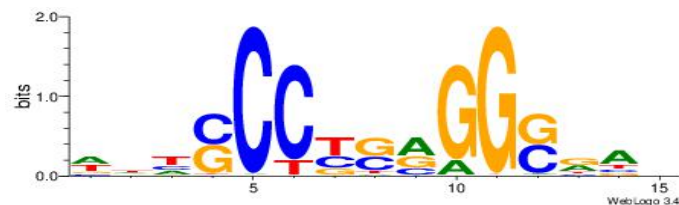
Motif name: Tcfap2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0151527

Alignment:

WDHSCCYSRGGSRAD
 ---GCCBBVRGS---

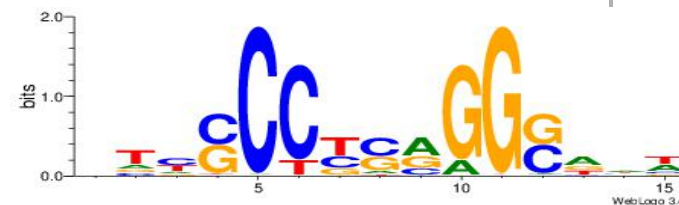
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



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

Similarity score: 0.016909

Alignment:
WHHSCCYSRGGSDAD
---GCCBBVRGS---

Original motif
Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif
Consensus sequence: DTHSCCKSMGGSHHW

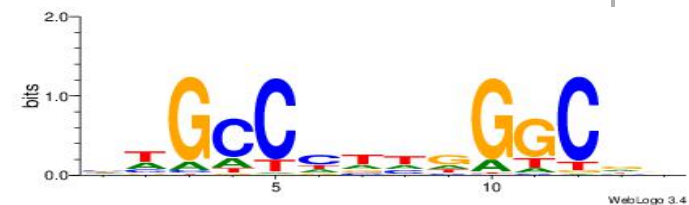
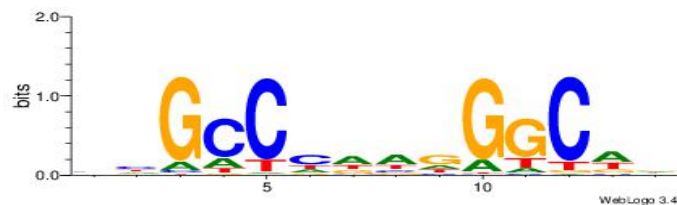


Motif ID: [UP00087](#)
Motif name: Tcfap2c_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0170259

Alignment:
BHGCCCDAGGGCWD
--GCCBBVRGS---

Original motif
Consensus sequence: BHGCCCDAGGGCWD

Reverse complement motif
Consensus sequence: HWGCCCTDGGGCDB



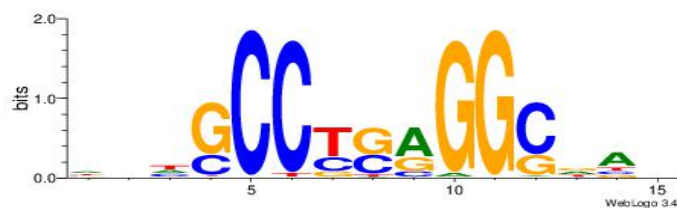
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0198854

Alignment:

HHHGCCTSAGGCDAD
 ---GCCBBVRGS---

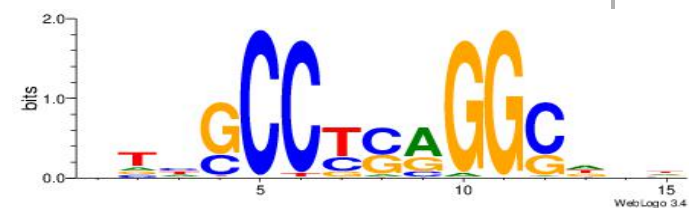
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



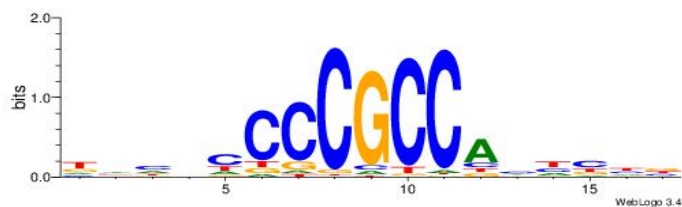
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 9
 Similarity score: 0.0203681

Alignment:

BHBHDTGGCGGGBDHD
 SCMVBBGGC-----

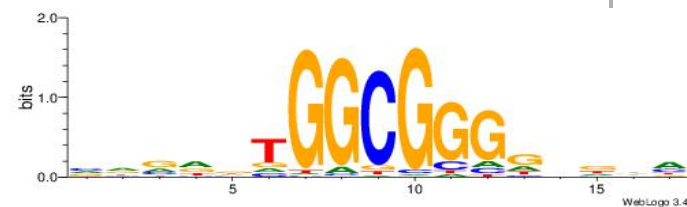
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 9

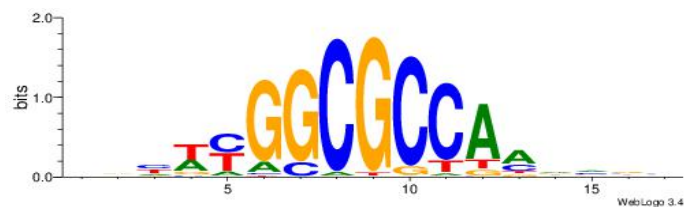
Similarity score: 0.0217064

Alignment:

BBBDYTGGCGCCKWDBD
SCMVBBGGC-----

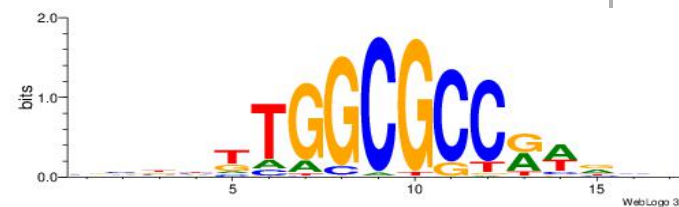
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD



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

Alignment:

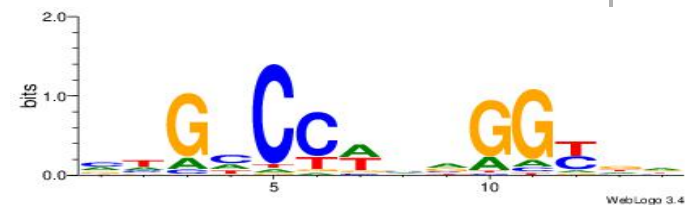
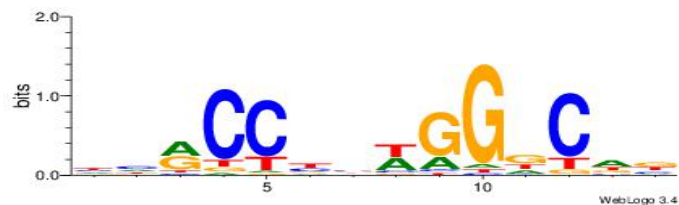
HHRCCBBWGGDCDB
--GCCBBVRGS---

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

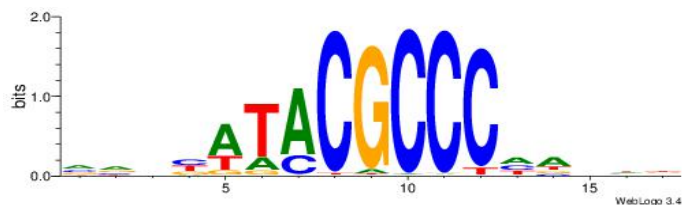
Consensus sequence: BDGHCCWBVGKDH



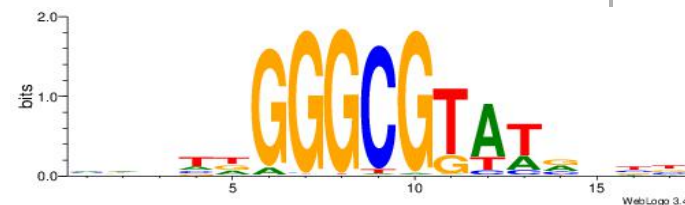
Motif ID: [UP00093](#)
 Motif name: Klf7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 9
 Similarity score: 0.026642

Alignment:
 VVDBATACGCCCHAHHD
 -----GCCBBVRGS

Original motif
 Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif
 Consensus sequence: DHDTHGGGCGTATBHBB



Dataset #: 3 **Motif ID: 26** **Motif name: MIZF**

Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



Best Matches for Motif ID 26 (Highest to Lowest)

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

Alignment:

DWACTTCCRCTTTB

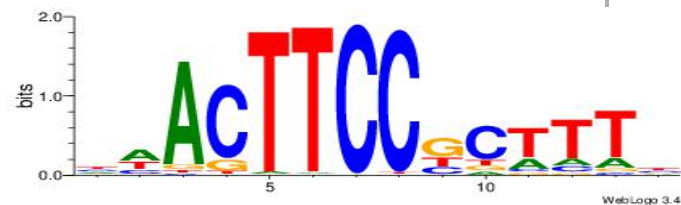
BAACGTCCGC----

Original motif

Consensus sequence: VAAAGMGGAAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



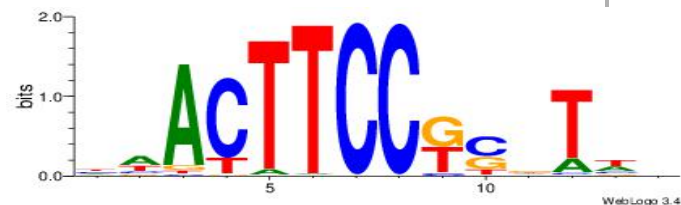
Motif ID: [UP00409](#)
 Motif name: Elf5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.00379999

Alignment:
 BWAHSMGGAAGTWD
 BAACGTCCGC-----

Original motif
 Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif
 Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)
 Motif name: Elf4

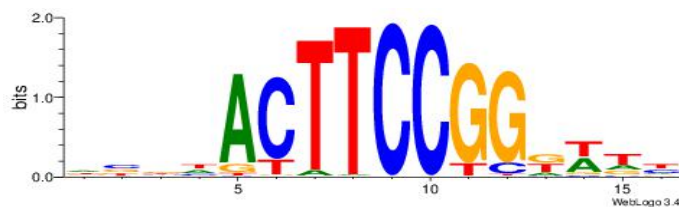
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWITH
 --BAACGTCCGC----

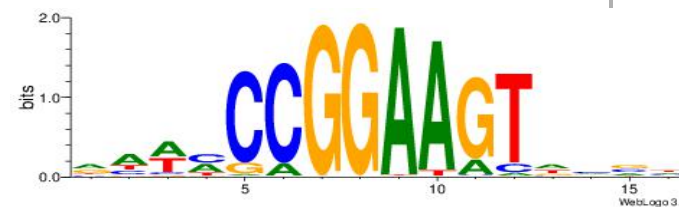
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00404](#)
 Motif name: Elf2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0128348

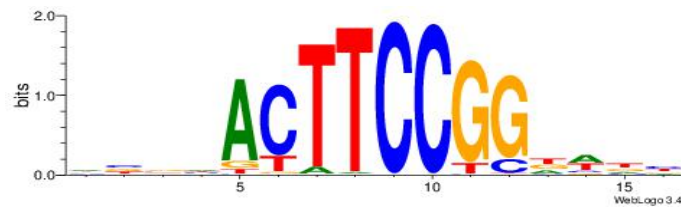
Alignment:

DBBHACTTCCGGDWDB

--BAACGTCCGC----

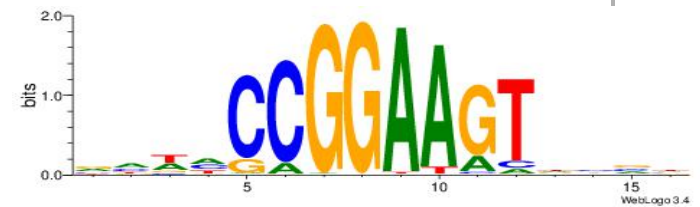
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Motif ID:

[UP00085](#)

Motif name:

Sfp1_primary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Backward

Position number:

5

Number of overlap:

10

Similarity score:

0.0141516

Alignment:

HDACTTCCBCWTDV

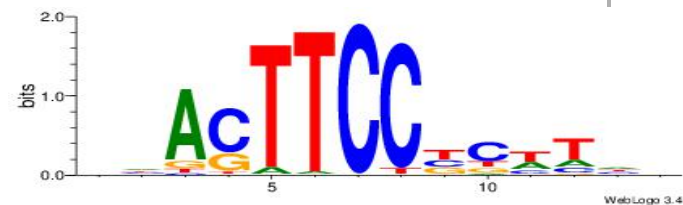
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV

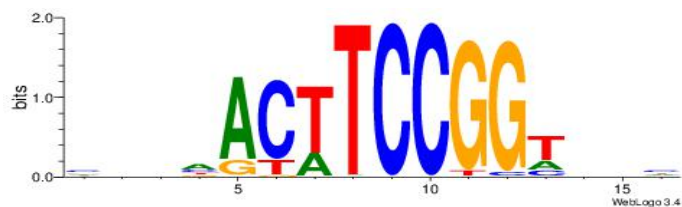


Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0144665

Alignment:
 DVHACCGGAAGTHDDV
 ----GCGGACGTTV--

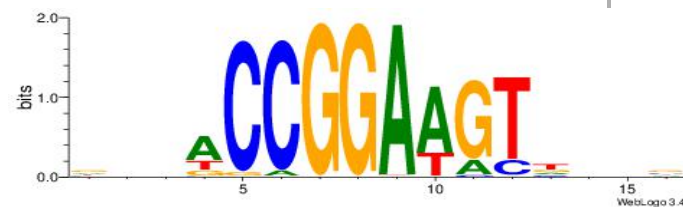
Original motif

Consensus sequence: VDHHA^{CTT}CCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



Motif ID: [UP00412](#)

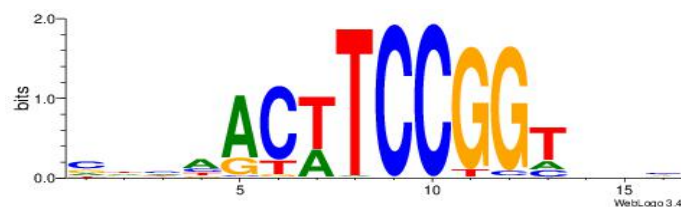
Motif name: Etv5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0155825

Alignment:

DHHACCGAWGTTDDV
 ----GCGGACGTTV--

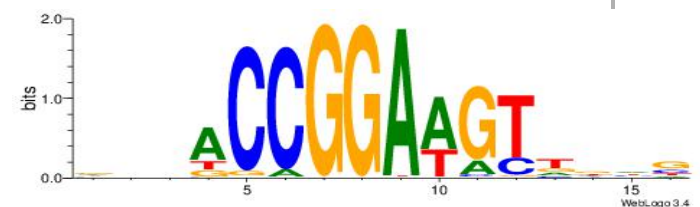
Original motif

Consensus sequence: VDHAACWTCCGGTHHH



Reverse complement motif

Consensus sequence: DHHACCGAWGTTDDV



Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10

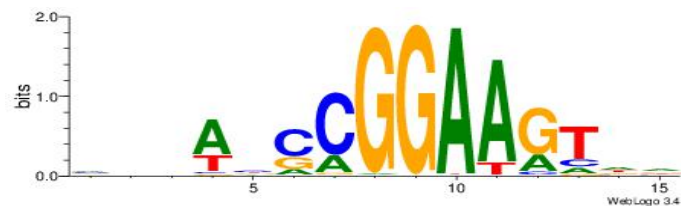
Similarity score: 0.0162018

Alignment:

VBDABCCGGAAGTDD
-----GCGGACGTTV

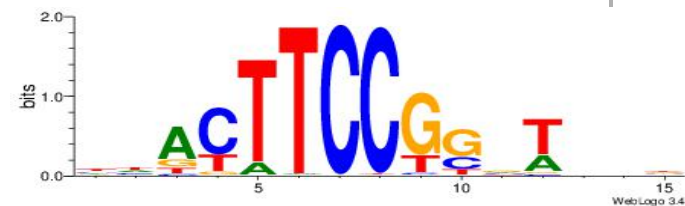
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



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

Alignment:

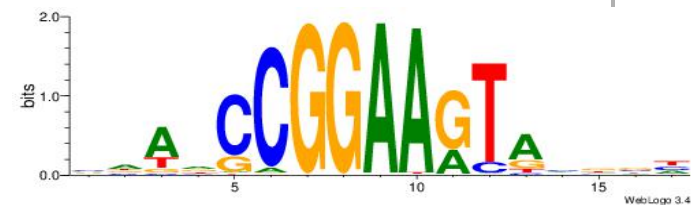
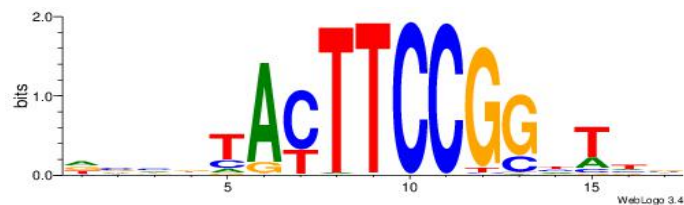
DVHBTACTTCCGGHTHB
---BAACGTCCGC----

Original motif

Consensus sequence: DVHBTACTTCCGGHTHB

Reverse complement motif

Consensus sequence: BHAHCCGGAAGTABDVD

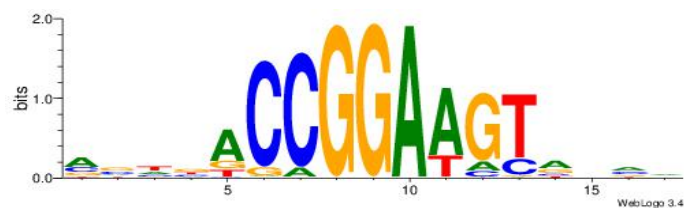


Motif ID: [UP00421](#)
 Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0184147

Alignment:
 MVHBACCGGAAGTVDVH
 -----GCGGACGTTV--

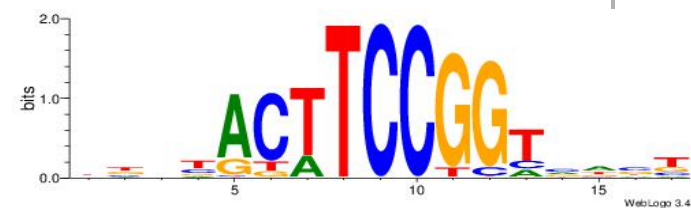
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

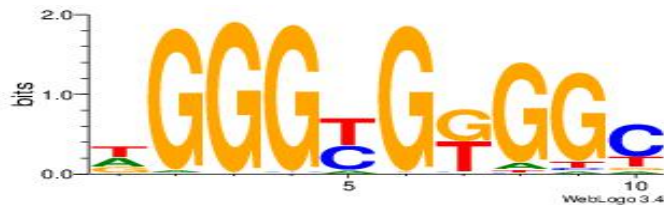
Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 3 **Motif ID: 27** **Motif name: Klf4**

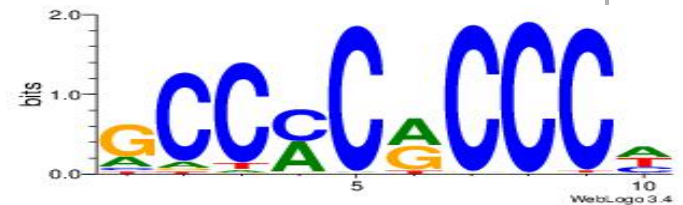
Original motif

Consensus sequence: DGGGYGKGCC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 27 (Highest to Lowest)

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

Alignment:

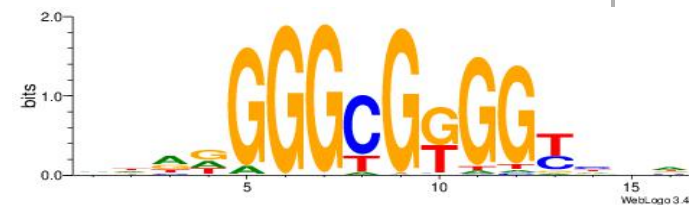
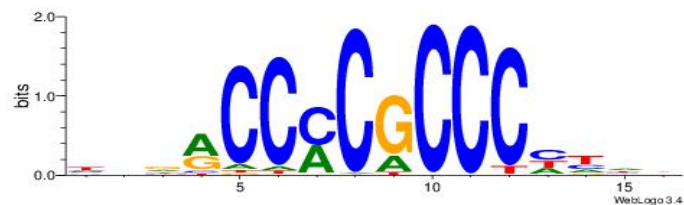
```
DHHDGGGCGRGGKHBH
---DGGGYGKGCC---
```

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

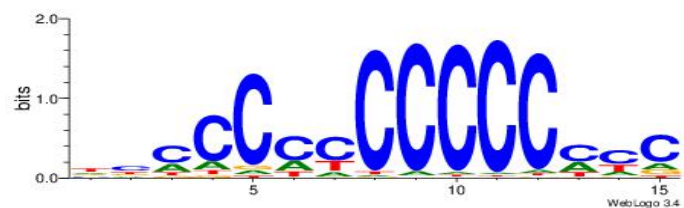


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0153308

Alignment:
 DBCCCCCCCCCMYC
 ---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00002](#)

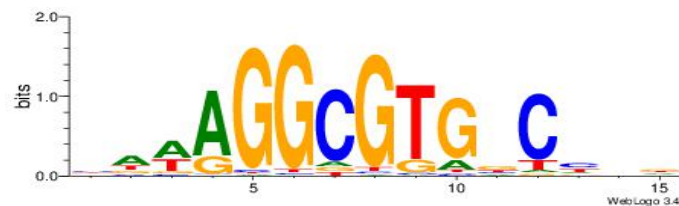
Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0186791

Alignment:

BDWAGGCGTGBCHHD
 --DGGGYGKGGC---

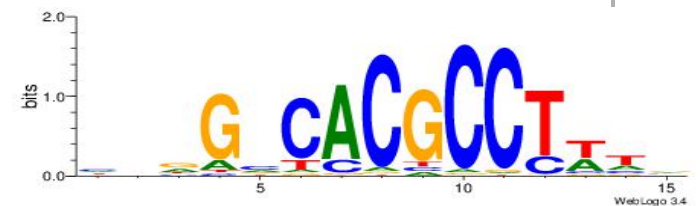
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



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

Similarity score: 0.0218399

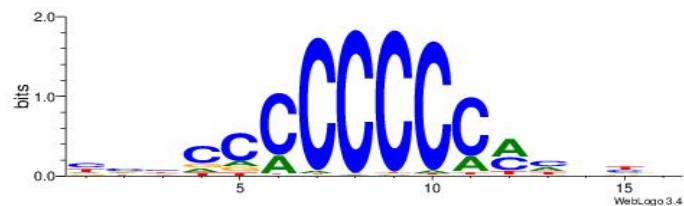
Alignment:

HVBCCCCCCCCMHHHB

--GCCYCMCCCD----

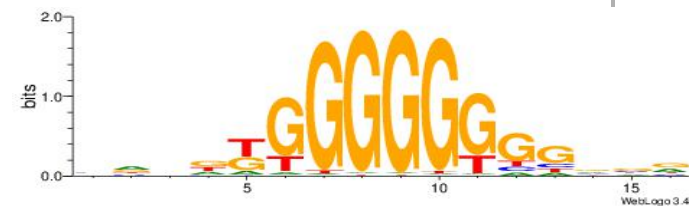
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Motif ID: [UP00007](#)

Motif name: Egr1_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 1

Number of overlap: 10

Similarity score: 0.0249586

Alignment:

HCCGCCCCCGCAHB

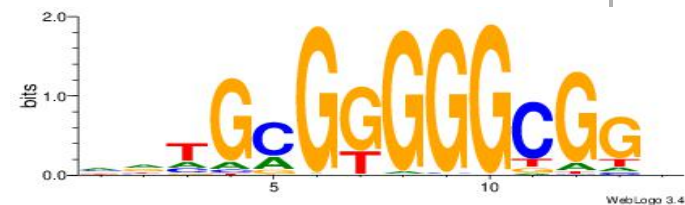
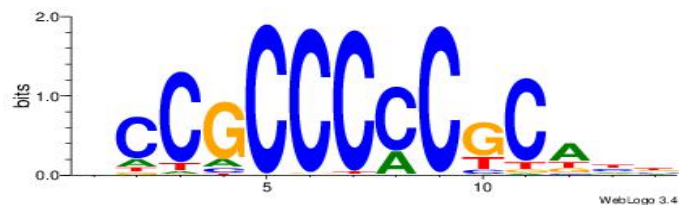
GCCYCMCCCD----

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

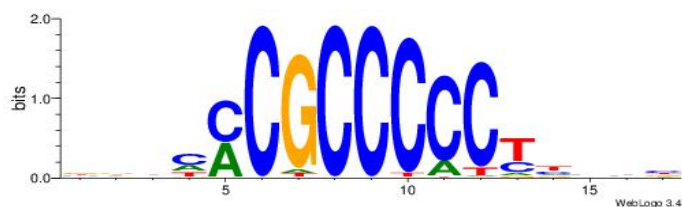
Consensus sequence: VHTGCGGGGGCGGH



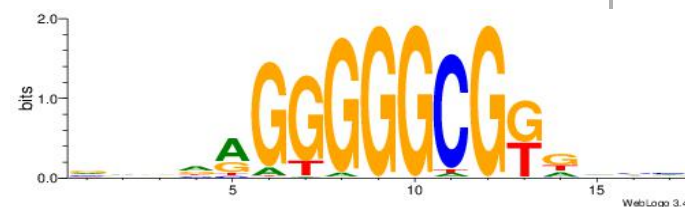
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.0299159

Alignment:
 BVVHAGGGGGCGRDHHB
 -----DGGGYGKGGC-

Original motif
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif
 Consensus sequence: BVVHAGGGGGCGRDHHB



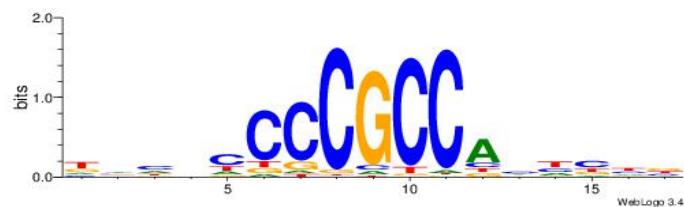
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0308595

Alignment:

BHBHDTGGCGGGBDHD
 ----DGGGYGKGGC----

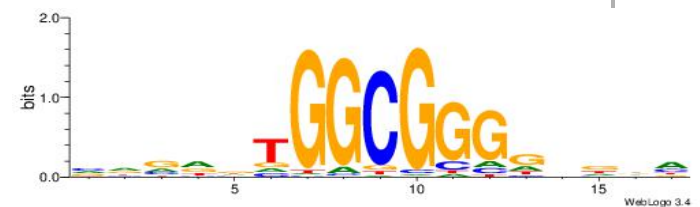
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00047](#)
 Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10

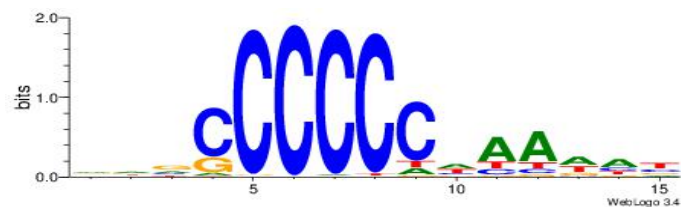
Similarity score: 0.0345891

Alignment:

VHWTTHGGGGGGVDD
GCCYCMCCCD-----

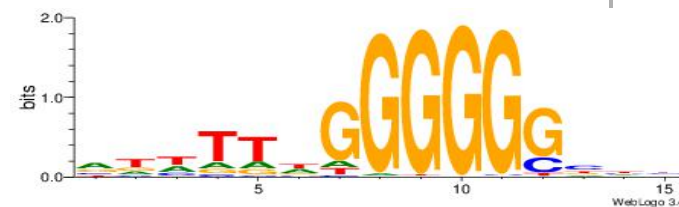
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



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

Alignment:

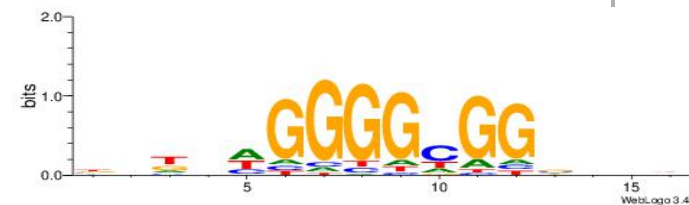
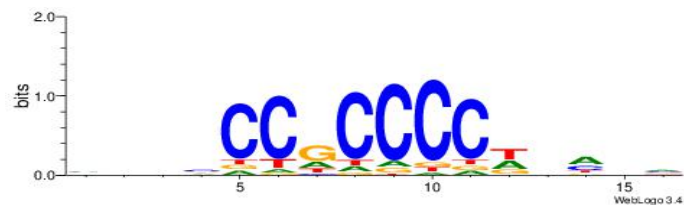
HBBBCCGCCCCWHHHV
--GCCYCMCCCD-----

Original motif

Consensus sequence: HBBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH

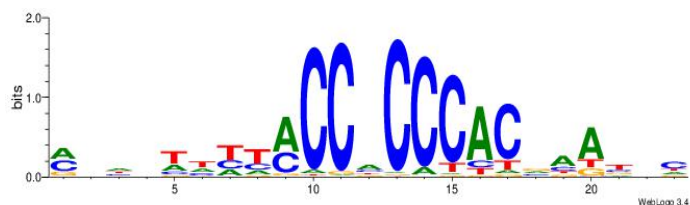


Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.0351496

Alignment:
 MHHHWHYTMCCCHCCCACVAABVH
 -----GCCYCMCCCD-----

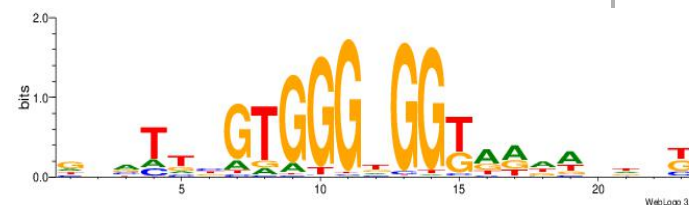
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Dataset #: 3 **Motif ID: 28** **Motif name: E2F1**

Original motif

Consensus sequence: TTTSGCGC



Reverse complement motif

Consensus sequence: GCGCSAAA



Best Matches for Motif ID 28 (Highest to Lowest)

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

Alignment:

BBBDTTGGCGCCKWVVD

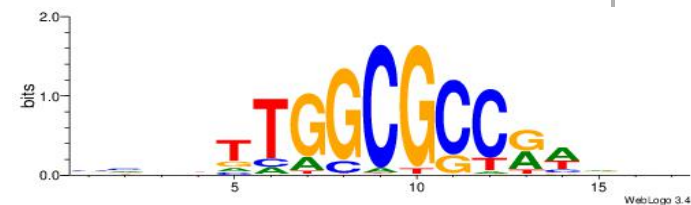
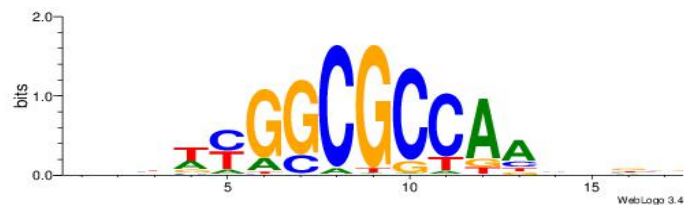
---TTTSGCGC-----

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD

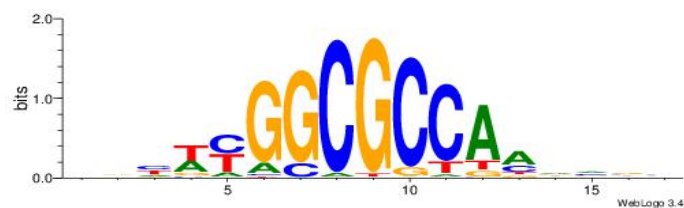


Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00182028

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

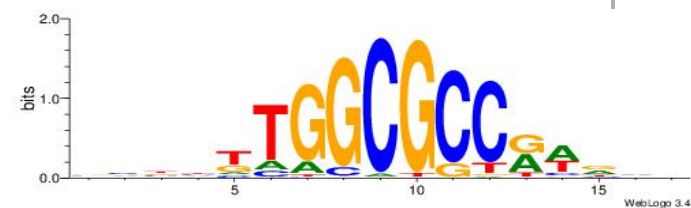
Original motif

Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00072](#)

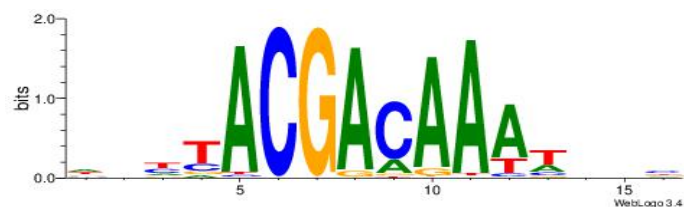
Motif name: IRC900814_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0237639

Alignment:

DDHTACGACAAWDDDB
 ----GCGCSAAA----

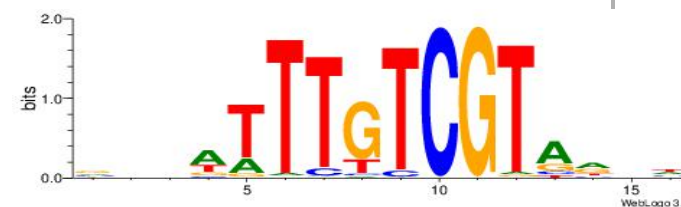
Original motif

Consensus sequence: DDHTACGACAAWDDDB



Reverse complement motif

Consensus sequence: BHDWTTTGTTCGTAHDD



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

Similarity score: 0.0275636

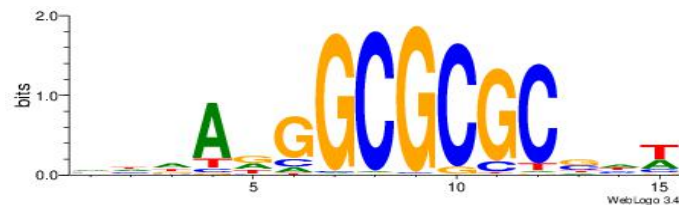
Alignment:

WHSGCGCGCCHTDHB

-----GCGCSAAA--

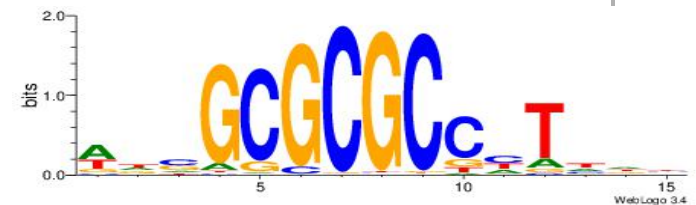
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



Motif ID: [UP00065](#)

Motif name: Zfp161_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 9

Number of overlap: 8

Similarity score: 0.028109

Alignment:

DMMDGMGCGCGCGCHD

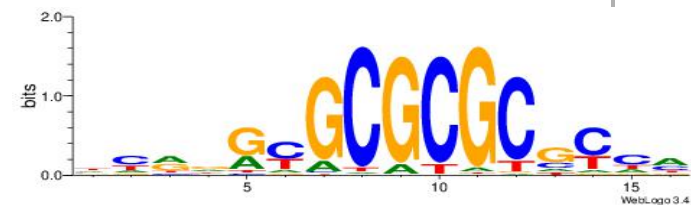
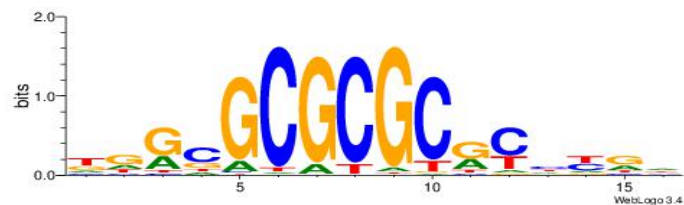
-----GCGCSAAA

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD

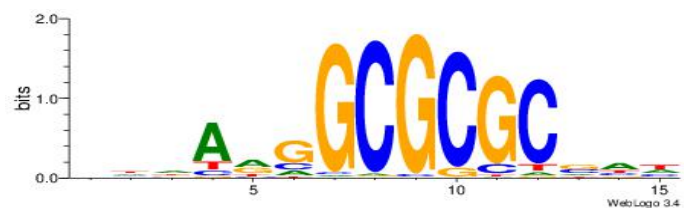


Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0296302

Alignment:
 HHVGCGCGCCKTDHB
 -----GCGCSAAA--

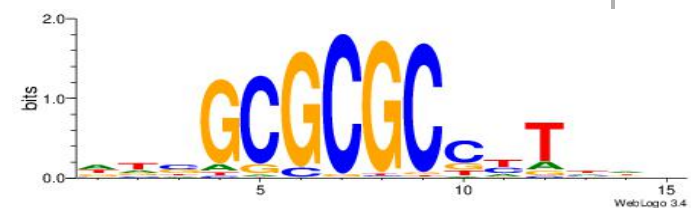
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB



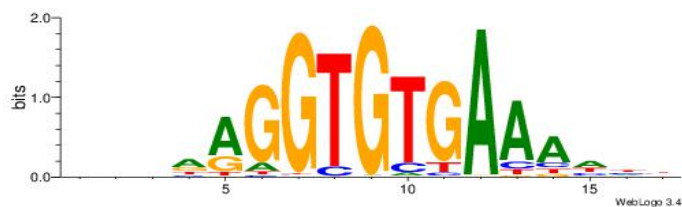
Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0348969

Alignment:

BVHDAGGTGTGAAHHH
 -----GCGCSAAA----

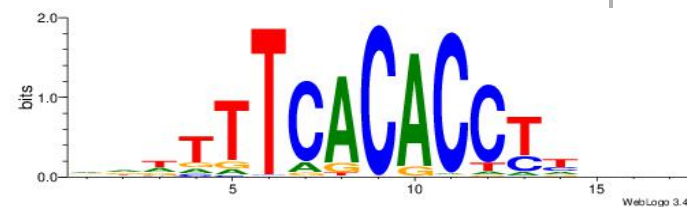
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



Motif ID: [UP00011](#)
 Motif name: Irf6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8

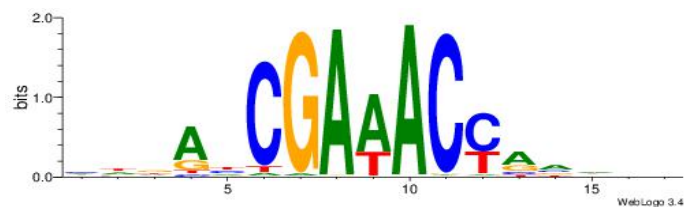
Number of overlap: 8
Similarity score: 0.0368278

Alignment:

DHDBTKGTTTCGHTHDD
-----TTTSGCGC--

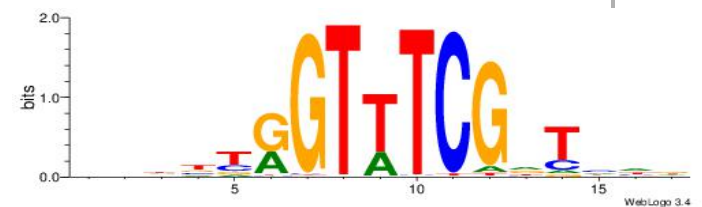
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



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

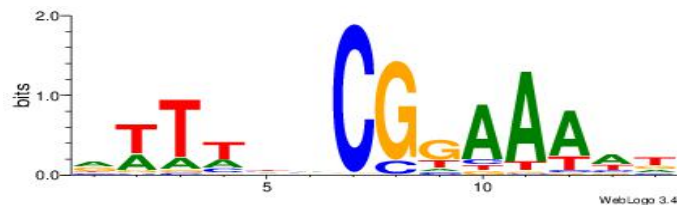
Alignment:

DWTTTCCGHHWAWD
-----GCGCSAAA-

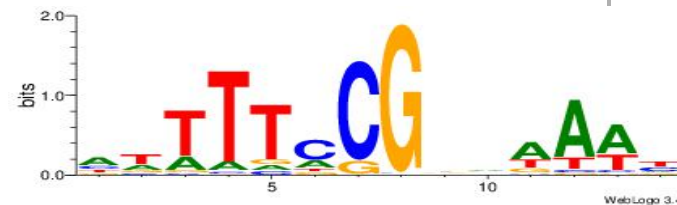
Original motif

Reverse complement motif

Consensus sequence: DWTWHHCGGAAAWD



Consensus sequence: DWTTTCCGHHWAWD



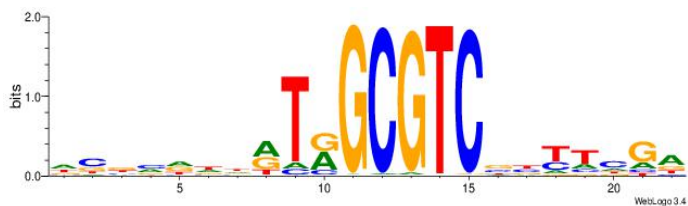
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0406002

Alignment:

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

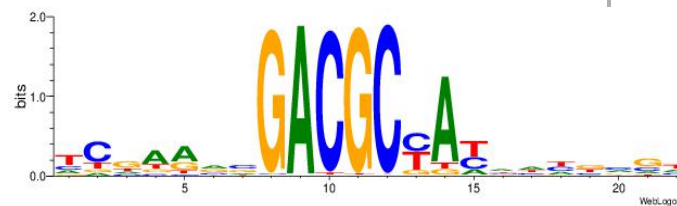
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBB



Dataset #: 3 **Motif ID: 29** **Motif name: HIF1AARNT**

Original motif

Consensus sequence: VBACGTGV



Reverse complement motif

Consensus sequence: VCACGTBV



Best Matches for Motif ID 29 (Highest to Lowest)

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

Alignment:

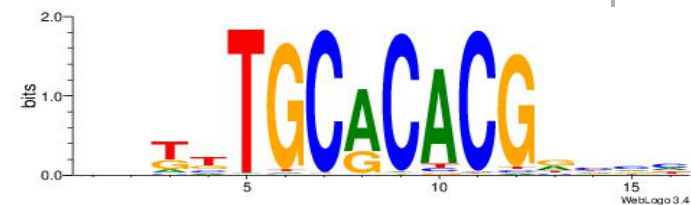
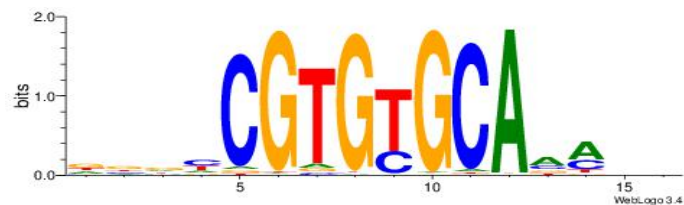
```
HDYTTGCACACGDHBH
-----VCACGTBV--
```

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

Consensus sequence: HDYTTGCACACGDHBH

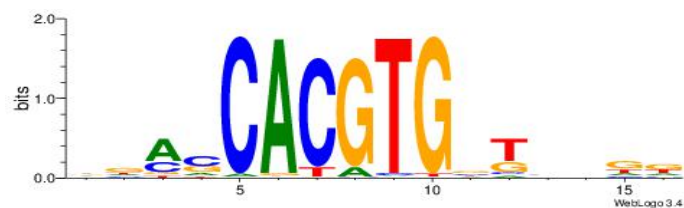


Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000574345

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

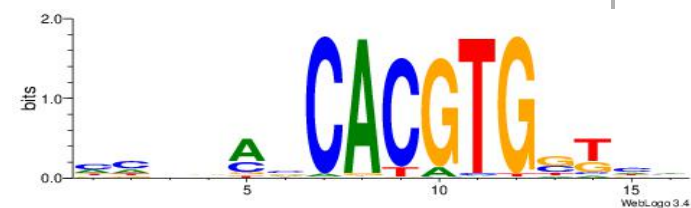
Original motif

Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)

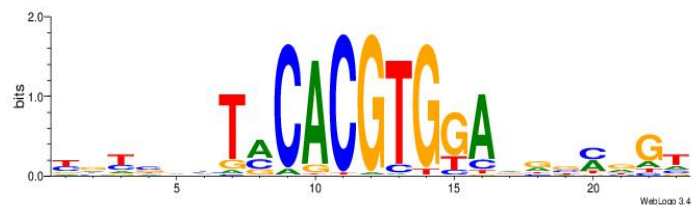
Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.00642455

Alignment:

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

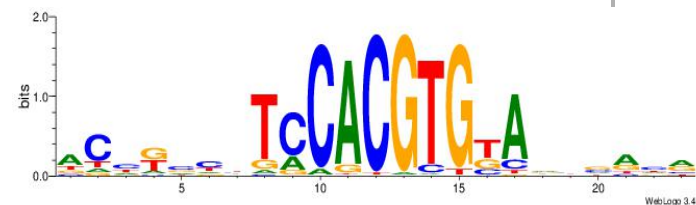
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



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

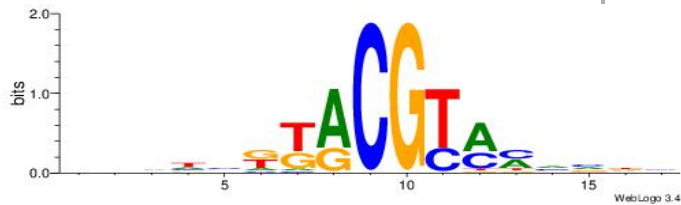
Similarity score: 0.0131171

Alignment:
BVVDVRYACGTRYVBHB
-----VBACGTGV-----

Original motif
Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif
Consensus sequence: BVVDVRYACGTRYVBHB

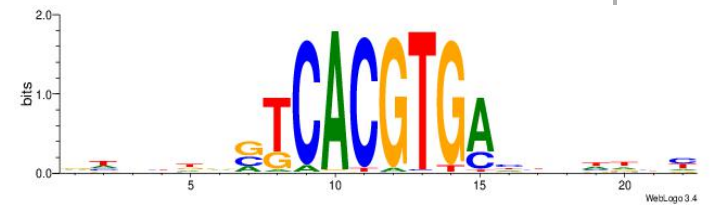
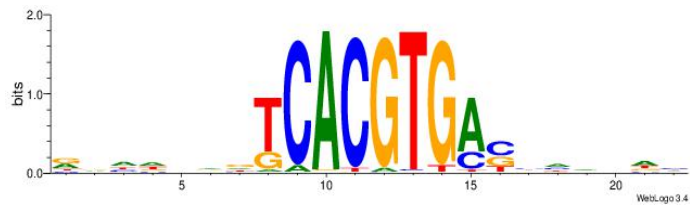


Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.014006

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

Original motif
Consensus sequence: RDHDBVDTACGTGASBHVHDH

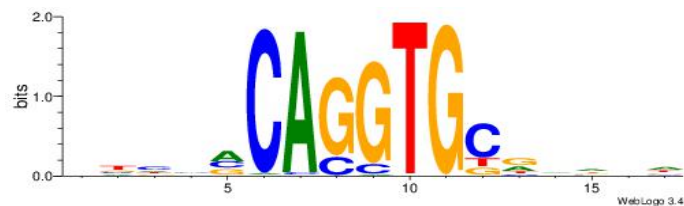
Reverse complement motif
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



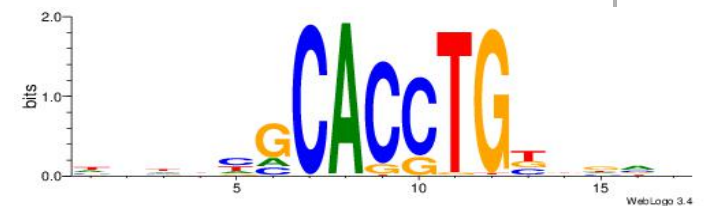
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0184296

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

Original motif
 Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
 Consensus sequence: DHDBHGCACCTGBDDVB



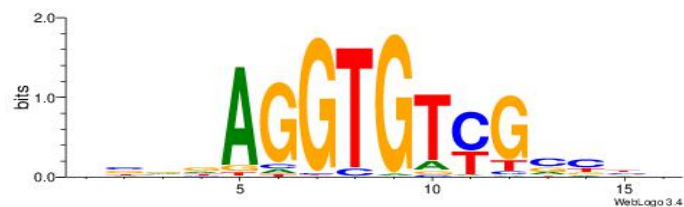
Motif ID: [UP00068](#)
 Motif name: Eomes_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV
 -----VCACGTBV--

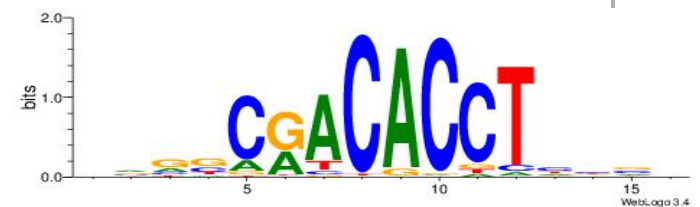
Original motif

Consensus sequence: VBVDAGGTGTGVBVV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV



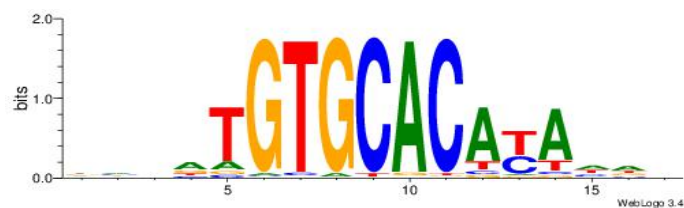
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9

Number of overlap: 8
Similarity score: 0.0189568

Alignment:
DHVDTGTGCACAYAHDH
-VBACGTGV-----

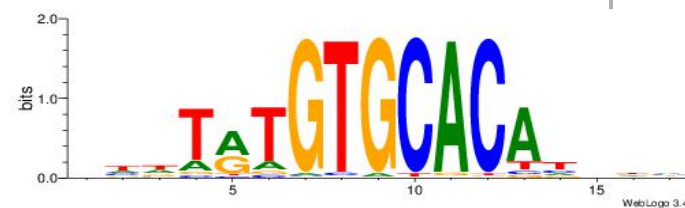
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



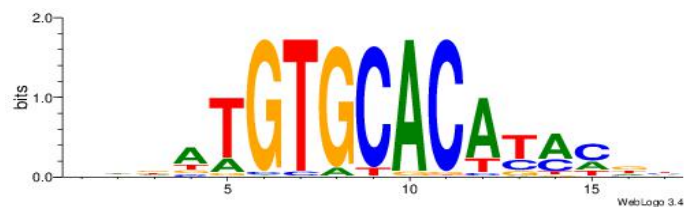
Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0198987

Alignment:
HHRTATGTGCACATHHD
--VBACGTGV-----

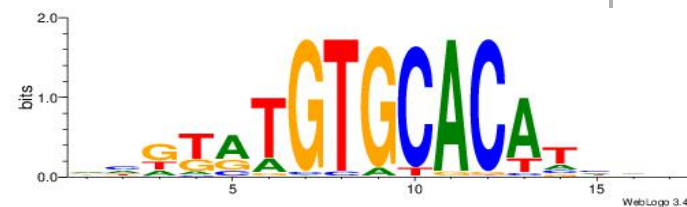
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



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

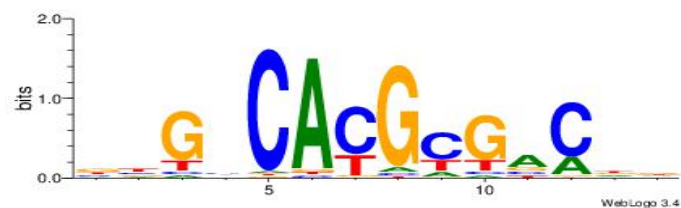
Alignment:

BBGHCACGCGACDD

---VCACGTBV---

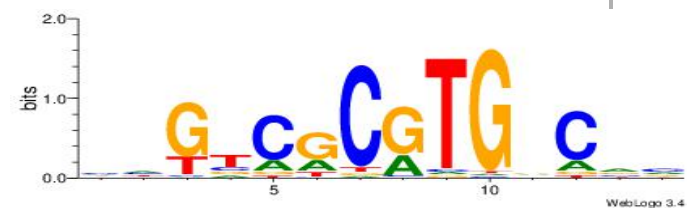
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 3 **Motif ID: 30** **Motif name: PLAG1**

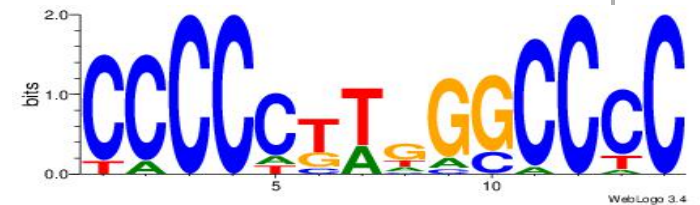
Original motif

Consensus sequence: GGGGCCCAAGGGGG



Reverse complement motif

Consensus sequence: CCCCCTTGGGCCCC



Best Matches for Motif ID 30 (Highest to Lowest)

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

Alignment:

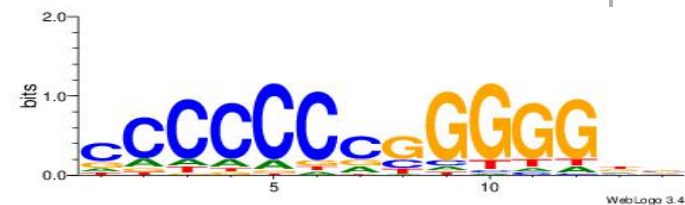
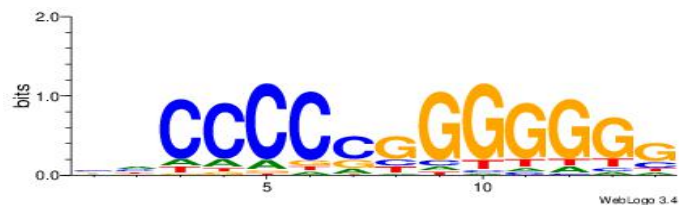
```
CCCCCCCCGGGGGHB  
CCCCCTTGGGCCCC
```

Original motif

Consensus sequence: BHCCCCCGGGGGG

Reverse complement motif

Consensus sequence: CCCCCCGGGGGHB



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

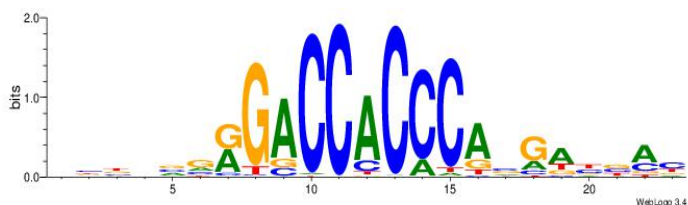
Alignment:

```

BBBDVVRGACCACCCAVGABBAB
-----CCCCCTTGGGCCCC
  
```

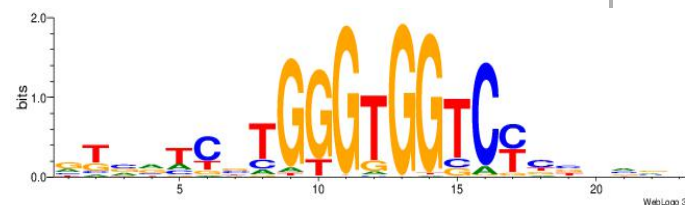
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVTTGGGTGGTCMVVDVBB



Motif ID: [UP00057](#)

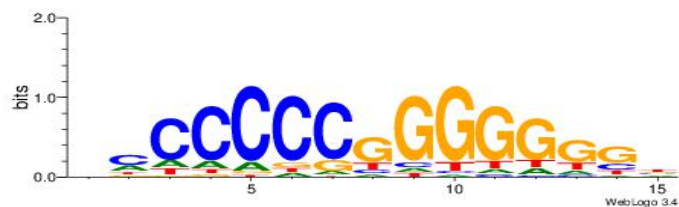
Motif name: Zic2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0548411

Alignment:

VCCCCCCCGGGGGRB
-CCCCCTTGGGCCCC

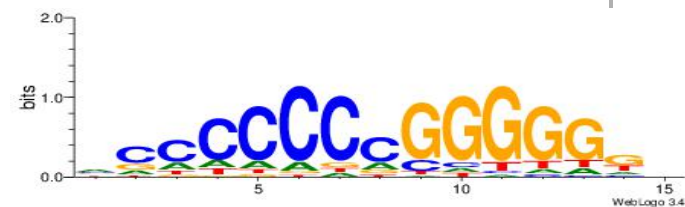
Original motif

Consensus sequence: BMCCCCCGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCCCGGGGGRB



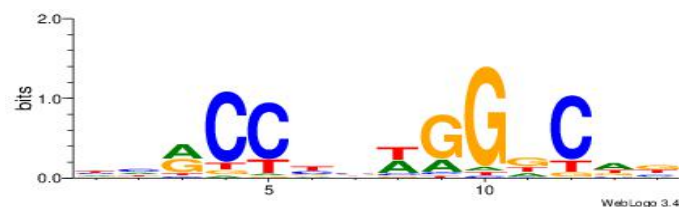
Motif ID: [UP00005](#)
Motif name: Tcfap2a_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0556785

Alignment:

HHRCCBBWGGDCDB
GGGGCCCAAGGGGG

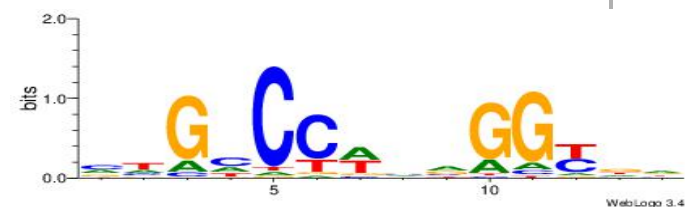
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGKGDH



Motif ID:	UP00006
Motif name:	Zic3_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.056976

Alignment:

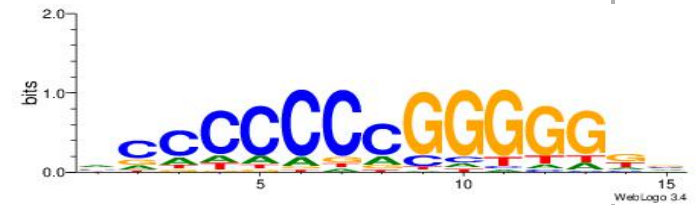
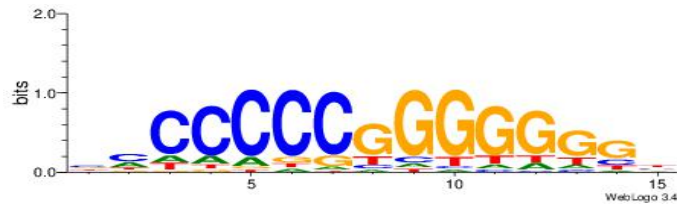
VCCCCCCCCGGGGGRB
-CCCCCTTGGGCCCC

Original motif

Consensus sequence: BMCCCCCGGGGGGGB

Reverse complement motif

Consensus sequence: VCCCCCCCCGGGGGRB

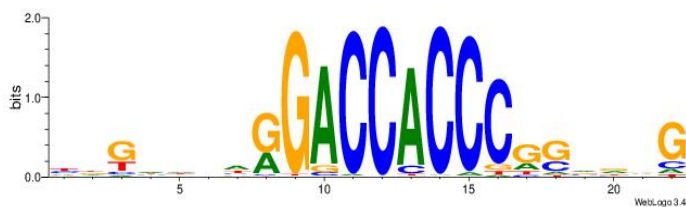


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0573495

Alignment:
 HDGHHBHRGACCACCCGSVDVG
 CCCCCTTGGGCCCC-----

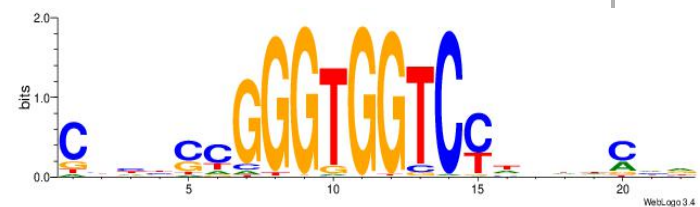
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00540](#)

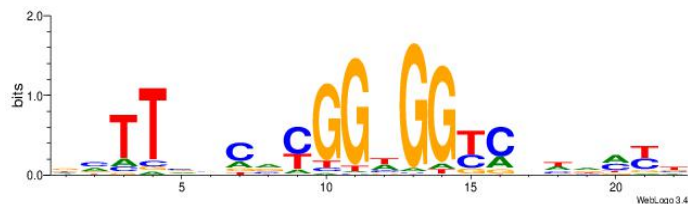
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0579022

Alignment:

VMYDHDGMCCCHCKBGVVAHVH
 -----CCCCCTTGGGCCCC

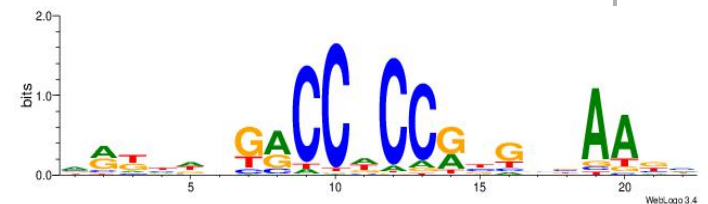
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH

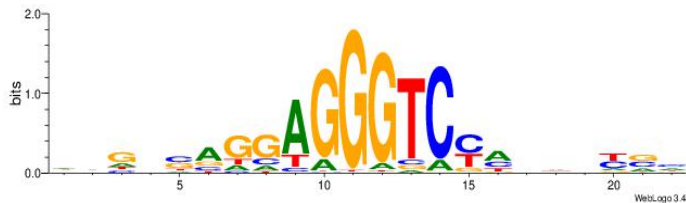


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 14

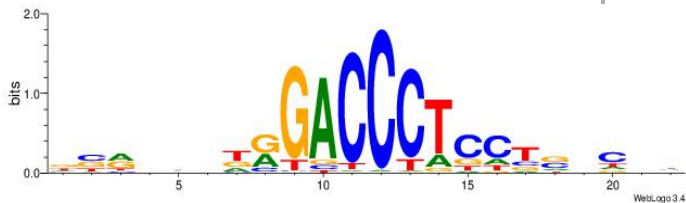
Similarity score: 0.0580662

Alignment:
DVMHHDHKGACCCTCCTSVCBH
CCCCCTTGGGCCCC-----

Original motif
Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

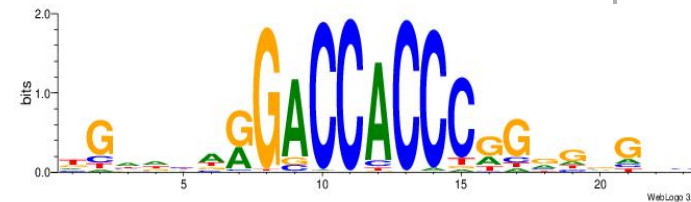
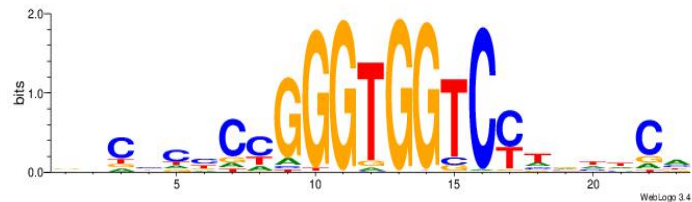


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0597453

Alignment:
HGDHVHKGACCACCCGGBGBGDB
-----CCCCCTTGGGCCCC

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

Reverse complement motif
Consensus sequence: HGDHVHKGACCACCCGGBGBGDB

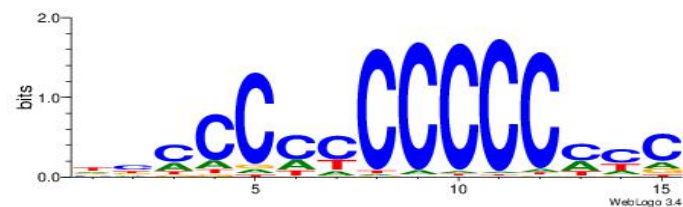


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0598088

Alignment:
 DBCCCCCCCCCMYC
 -CCCCCTTGGGCCCC

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

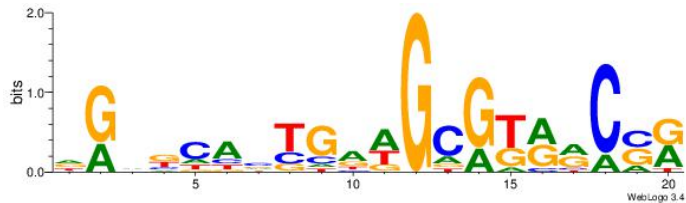
Consensus sequence: GKRGGGGGGGGGGBD



Dataset #: 3 **Motif ID: 31** **Motif name: Pax5**

Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR



Best Matches for Motif ID 31 (Highest to Lowest)

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

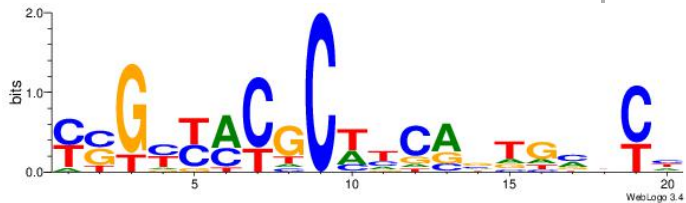
Alignment:
DDRMHBACGCGYGCGTDGBBDB
-DGVBCABTGDWGCGRRCR-

Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB

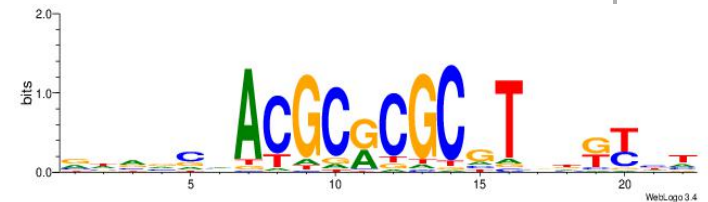
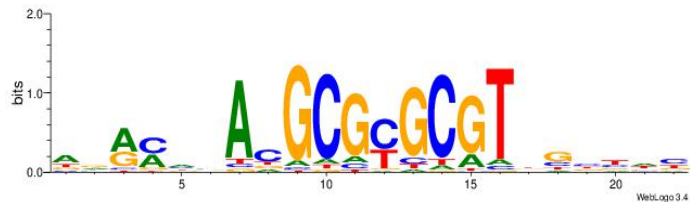
Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBB



Reverse complement motif

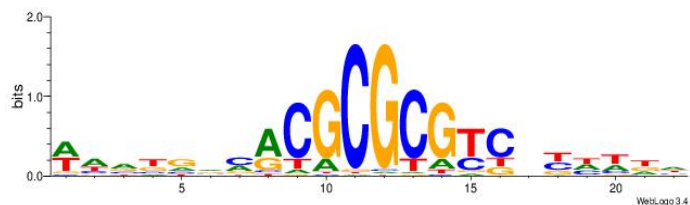
Consensus sequence: BDVBCDACGCKCGCTBHRKHD



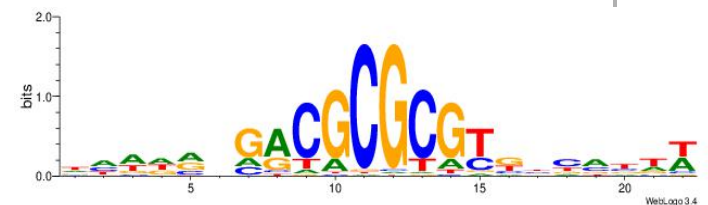
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0520196

Alignment:
 WHVBVVMACGCGCGTCDYHWDH
 DGVBCABTGDWGCGRRCR--

Original motif
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary

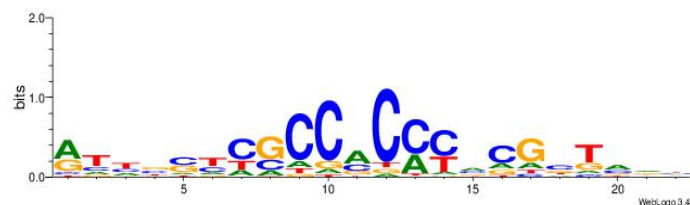
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0542764

Alignment:

HDBABCGBKRGYGGCGMSBHAK
 -DGVBCABTGDWGCGRRCR-

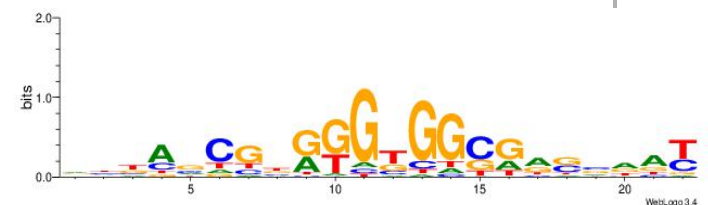
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



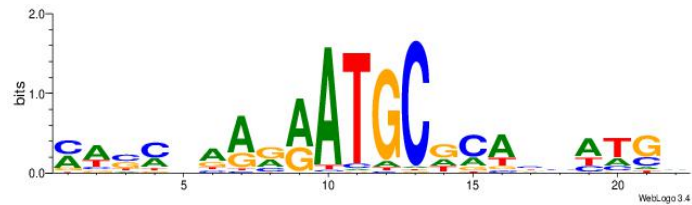
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0560636

Alignment:

DCATDBTGHGCATKMTTBRSWR
--MSGKKRCGCWDCABTGBCD

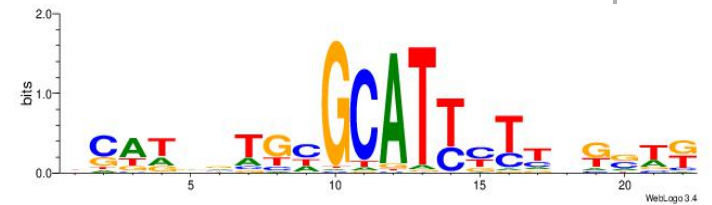
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

Alignment:

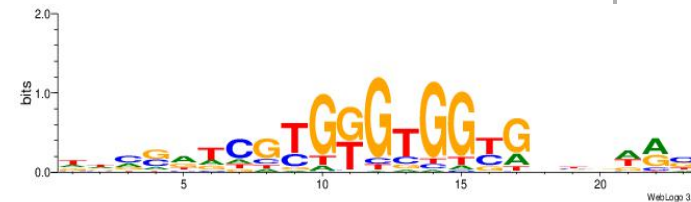
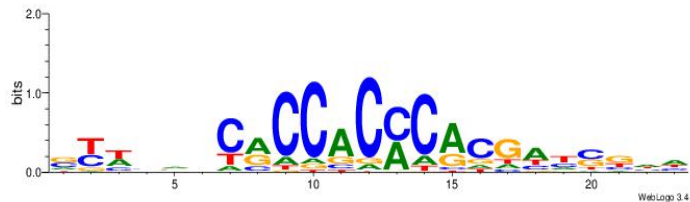
HHBSHTCGTGRGTGGKGDBVWMV
DGVBCABTGDWCGKRRCSR---

Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



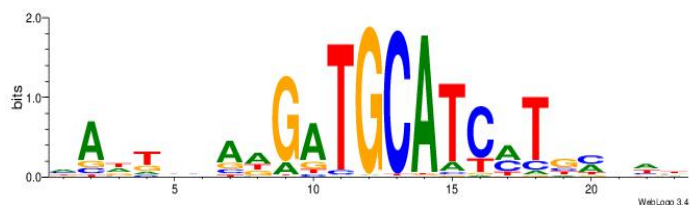
Motif ID: [UP00528](#)
 Motif name: Foxm1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0602559

Alignment:

HADTBVADGATGCATCMTGMVHB
 DGVBCABTGDWGCGRRCR---

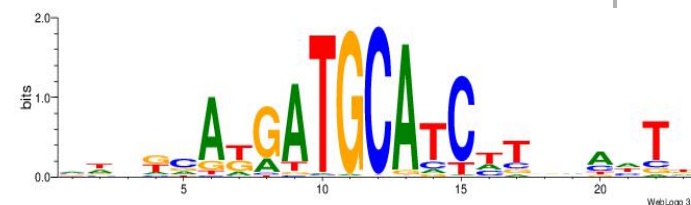
Original motif

Consensus sequence: HADTBVADGATGCATCMTGMVHB



Reverse complement motif

Consensus sequence: VHVRCAYGATGCATCDTVVADTH



Motif ID: [UP00538](#)

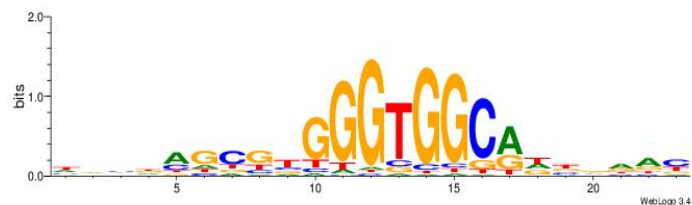
Motif name: Gli1_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0607506

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 DGVBCABTGDWGCGRRCR---

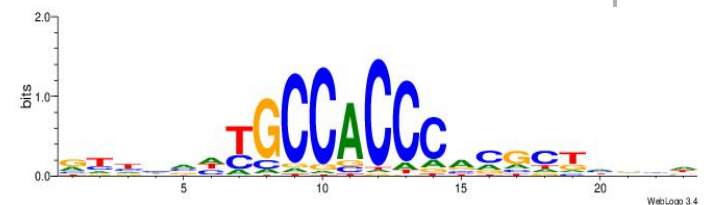
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH

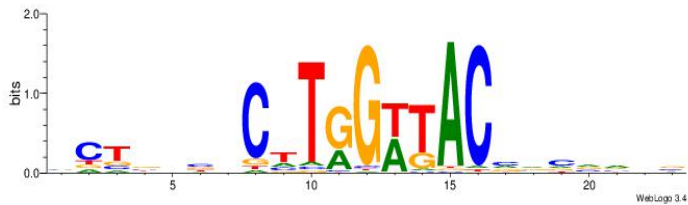


Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 20

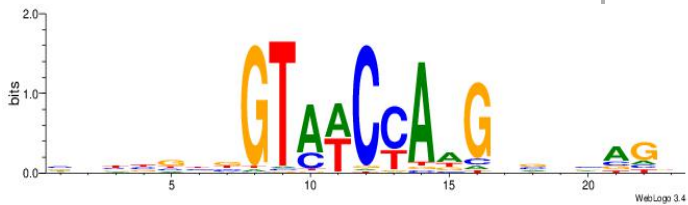
Similarity score: 0.0611227

Alignment:
BDBBVBVGTAWCCAAGVBHBAGB
MSGKKRCGCWDCABTGBCD---

Original motif
Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif
Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB

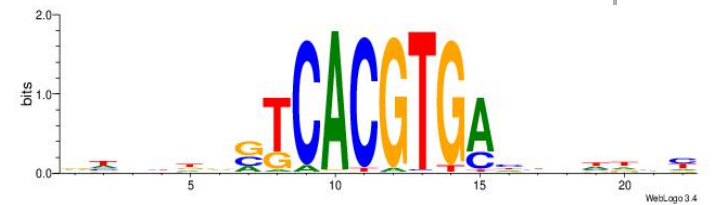
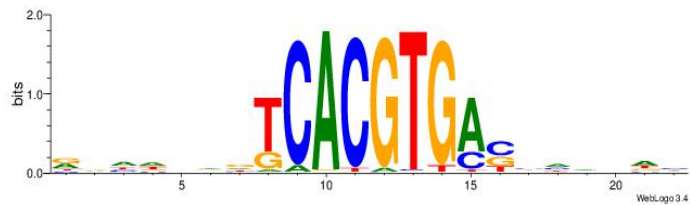


Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 20
Similarity score: 0.0611361

Alignment:
RDHDBVDTACGTGASBHVVDH
--MSGKKRCGCWDCABTGBCD

Original motif
Consensus sequence: RDHDBVDTACGTGASBHVVDH

Reverse complement motif
Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



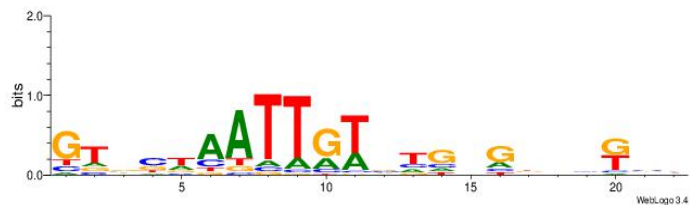
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.061403

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 DGVBCABTGDWCGKRRCSR--

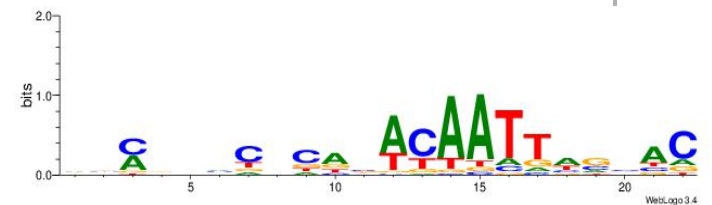
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Dataset #: 3 **Motif ID: 32** **Motif name: ArntAhr**

Original motif

Consensus sequence: YGCGTG



Reverse complement motif

Consensus sequence: CACGCM



Best Matches for Motif ID 32 (Highest to Lowest)

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

Alignment:

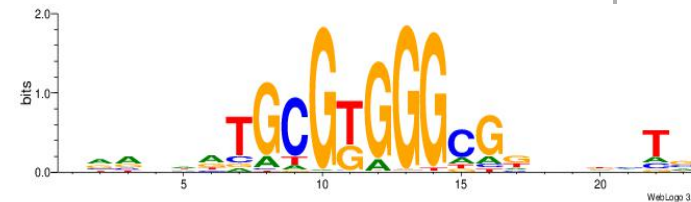
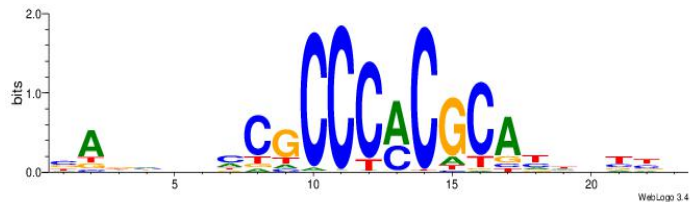
```
VVVDHHTGCGYGGGCGDHSVHHTB
-----YGCGTG-----
```

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB

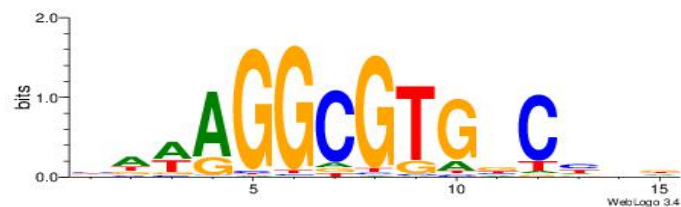


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 6
 Similarity score: 0.00183587

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

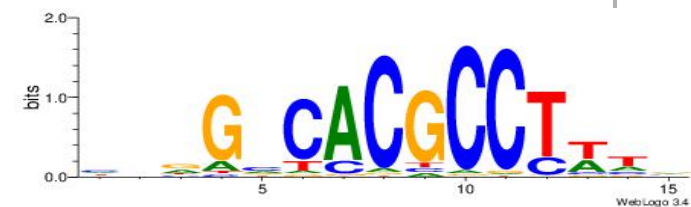
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



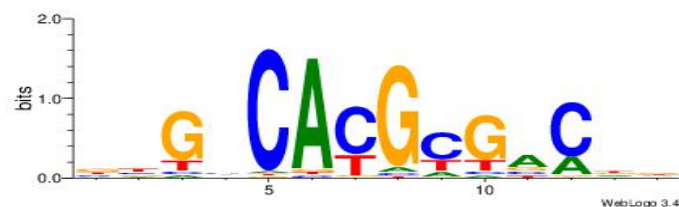
Motif ID: [UP00060](#)

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

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

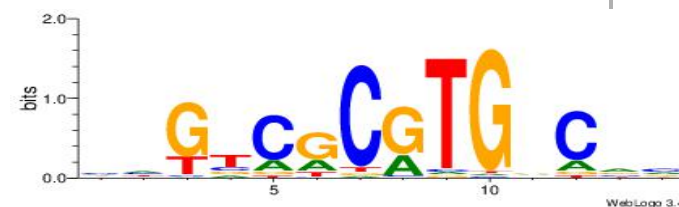
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



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

Similarity score: 0.00526158

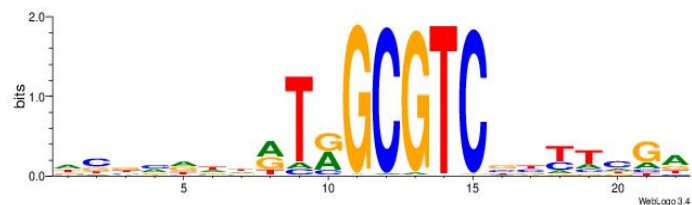
Alignment:

TCDAMVBGACGCMAKDDDVBB

-----CACGCM-----

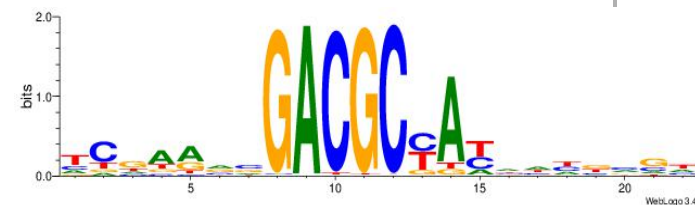
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMAKDDDVBB



Motif ID: [UP00042](#)

Motif name: Gm397_second

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 8

Number of overlap: 6

Similarity score: 0.00558171

Alignment:

HBGYGTGTGTGCVRVD

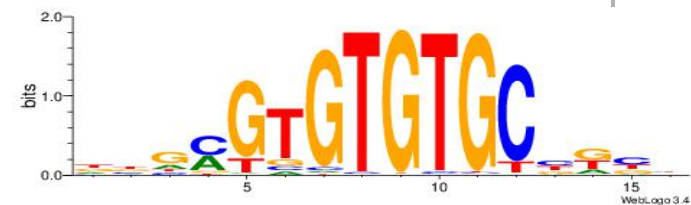
---YGCGTG-----

Original motif

Consensus sequence: DVMVGCACACACKCVH

Reverse complement motif

Consensus sequence: HBGYGTGTGTGCVRVD



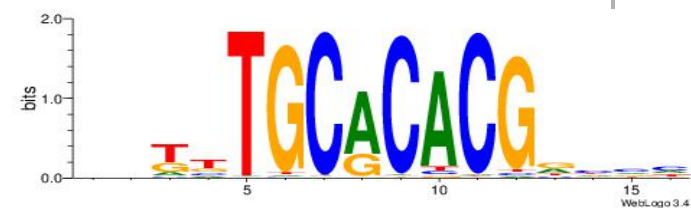
Alignment:

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

Consensus sequence: DBDHCGTGTGCAAMDH



Consensus sequence: HDYTTGCACACGDHBH



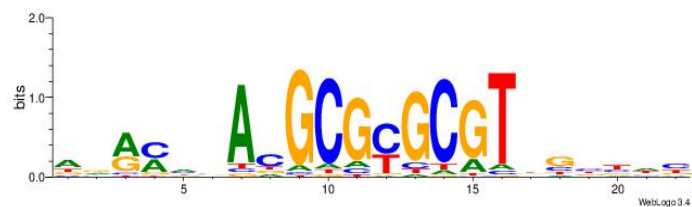
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0123233

Alignment:

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

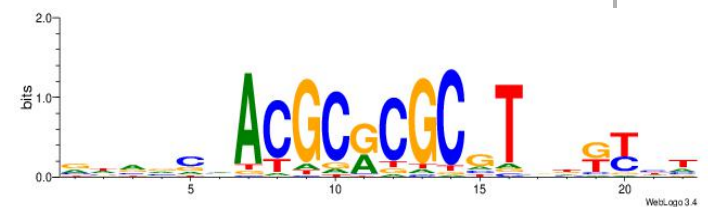
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



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

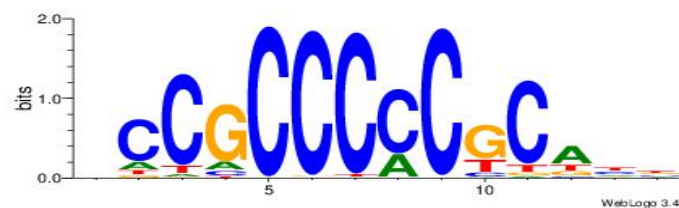
Number of overlap: 6
Similarity score: 0.0141579

Alignment:

HCCGCCCCCGCAHB
-----CACGCM--

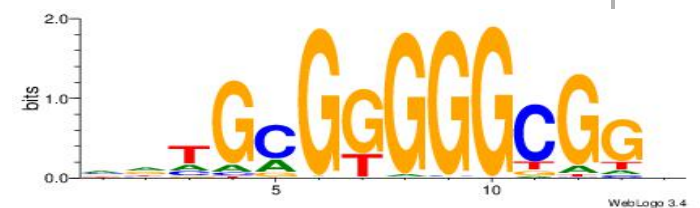
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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

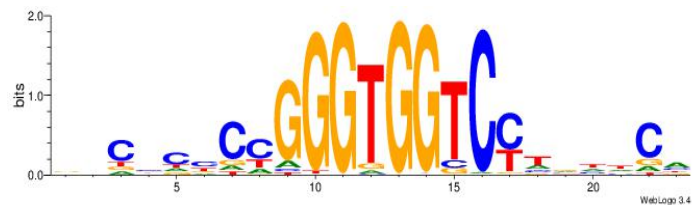
Alignment:

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

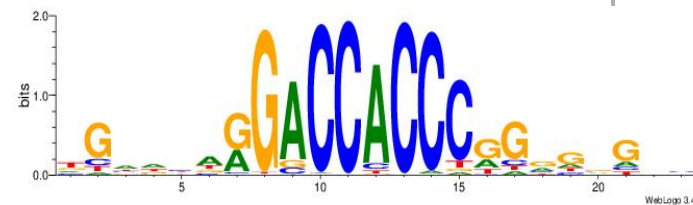
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



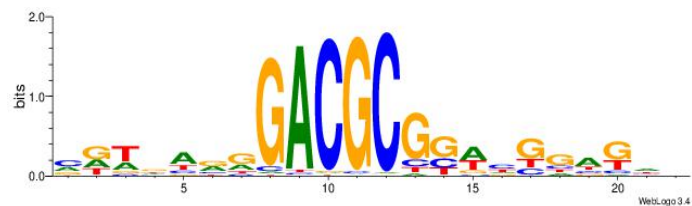
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0172109

Alignment:

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

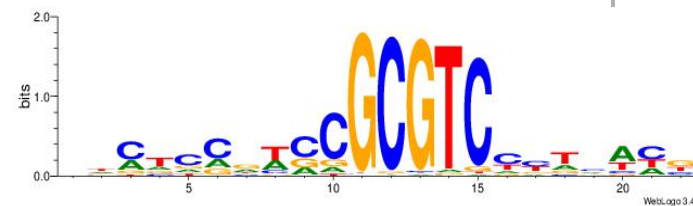
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 3 **Motif ID: 33** **Motif name: Mycn**

Original motif

Consensus sequence: HSCACGTGGC



Reverse complement motif

Consensus sequence: GCCACGTGSD



Best Matches for Motif ID 33 (Highest to Lowest)

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

Alignment:

DDASCACGTGBTBVDD

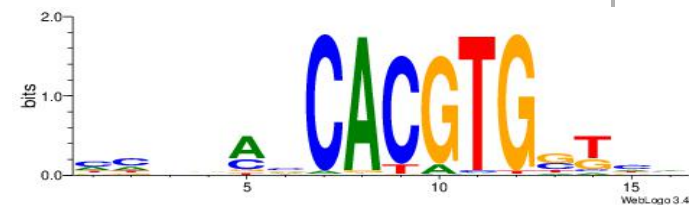
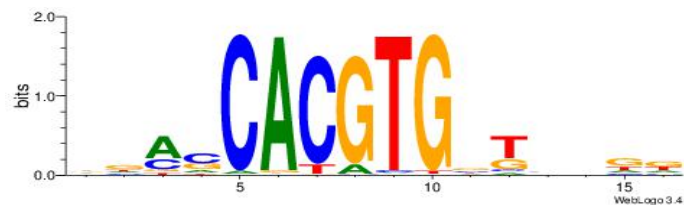
--HSCACGTGGC----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

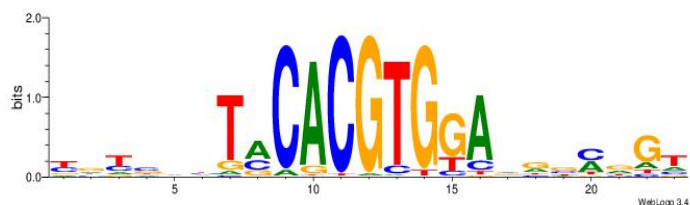


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----GCCACGTGSD-----

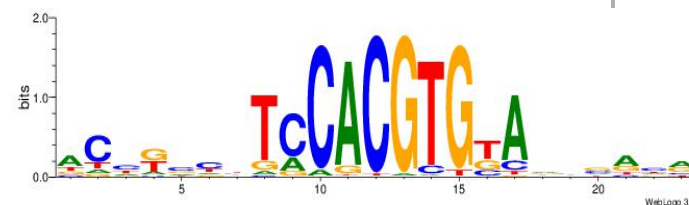
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

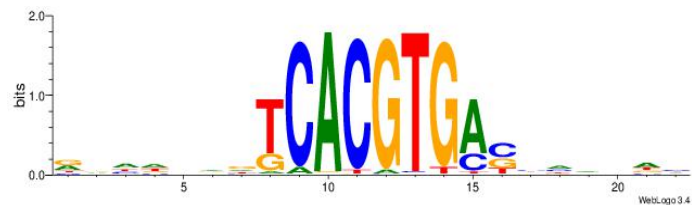
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0132858

Alignment:

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

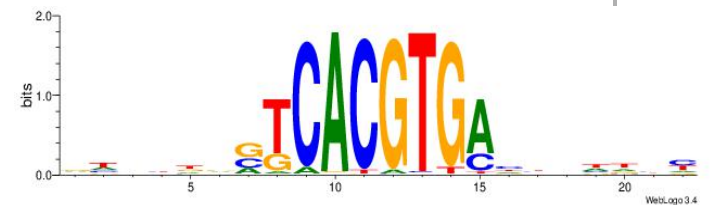
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH

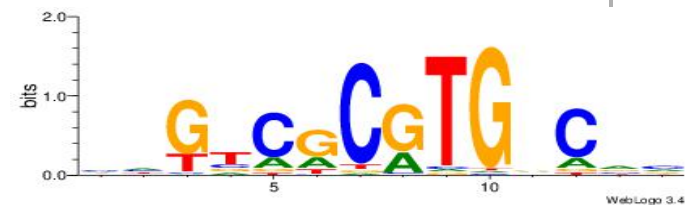
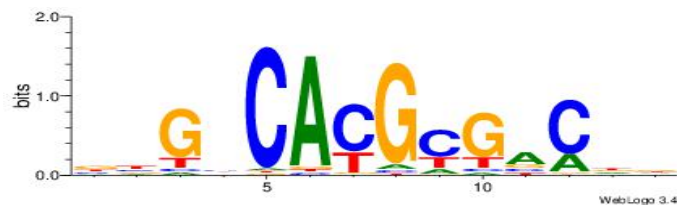


Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



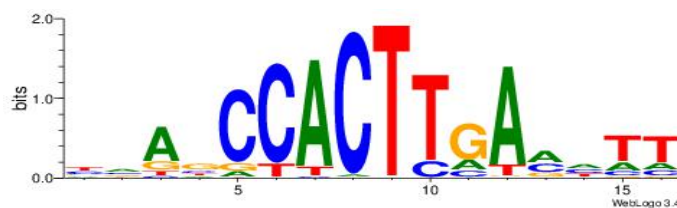
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10



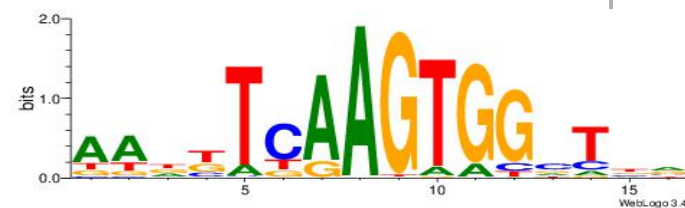
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0344833

Alignment:
 BVABCCACTTGAMHTT
 ---GCCACGTGSD---

Original motif
 Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif
 Consensus sequence: AAHYTCAAGTGGBTBV



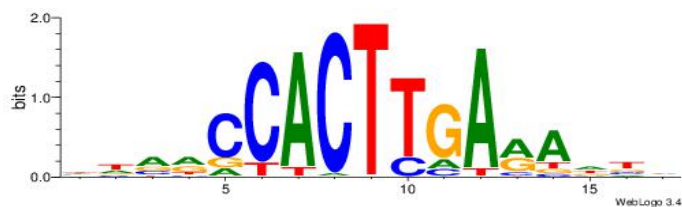
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.035228

Alignment:

HDVRCCACTTGARADBD
 ---GCCACGTGSD----

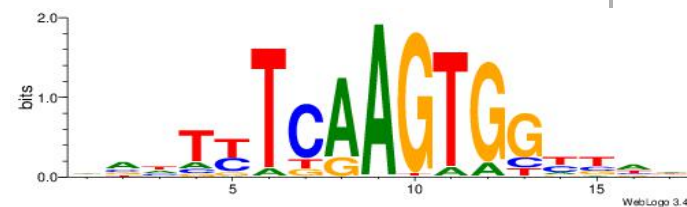
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



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

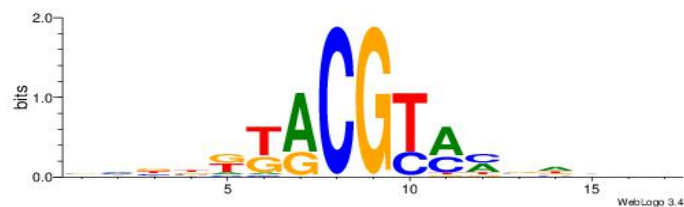
Number of overlap: 10
Similarity score: 0.0358581

Alignment:

BVVDVRYACGTRYVBHB
----GCCACGTGSD---

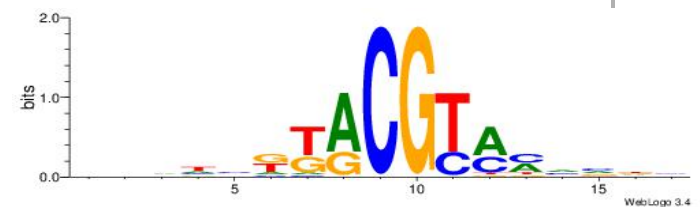
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



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

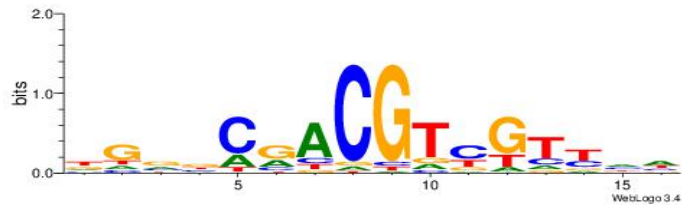
Alignment:

HHMACKACGTMGBVCD
---HSCACGTGGC---

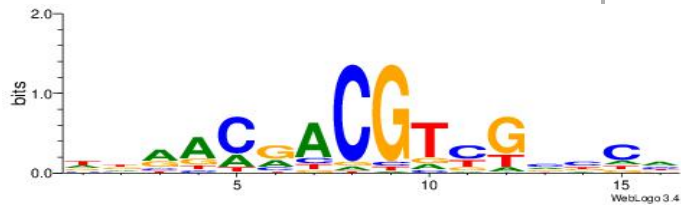
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYHH



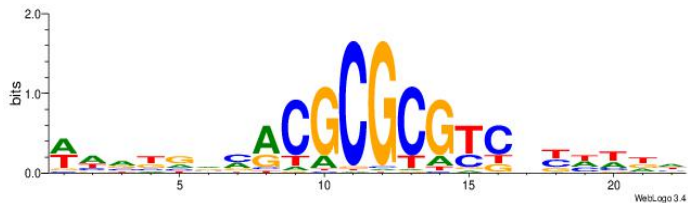
Consensus sequence: HHMACKACGTMGBVCD



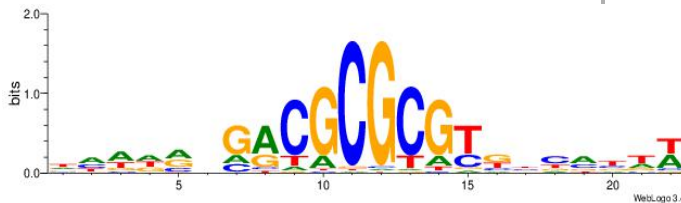
Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0383187

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

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 3 **Motif ID: 34** **Motif name: Myc**

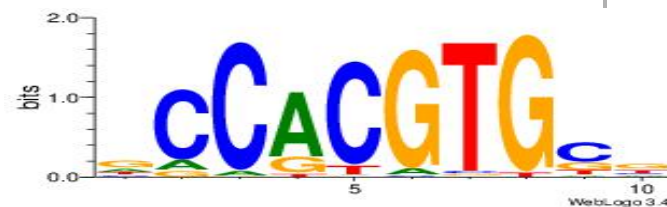
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



Best Matches for Motif ID 34 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

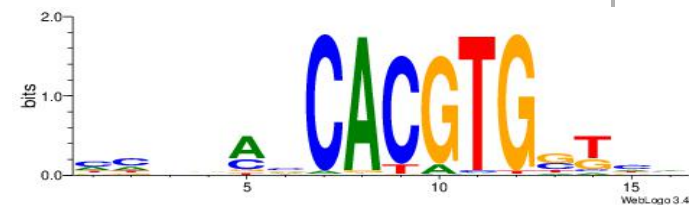
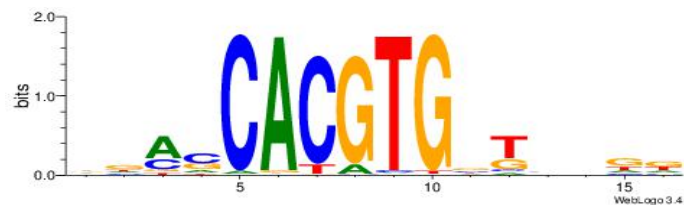
--VGCACGTGGH----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

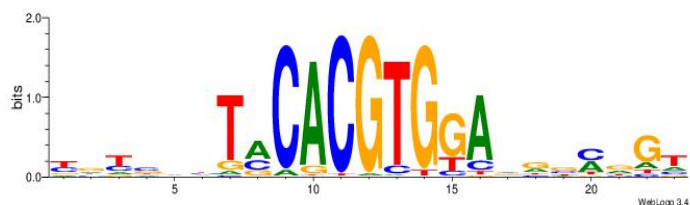


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.00631885

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

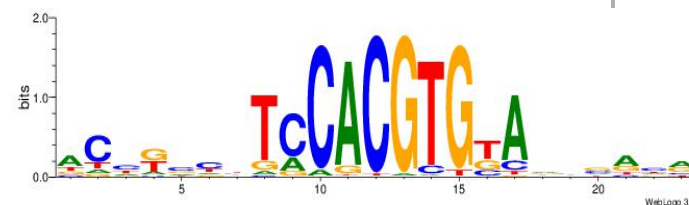
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

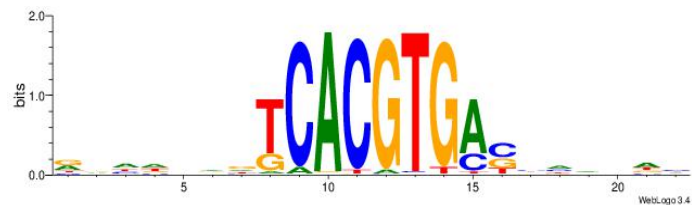
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00821668

Alignment:

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

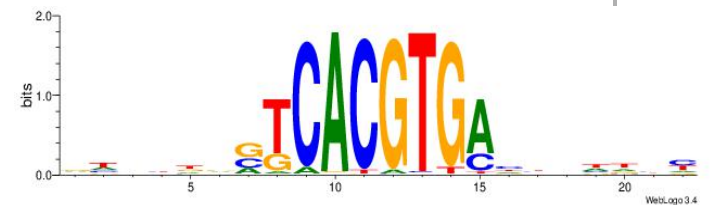
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



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

Similarity score: 0.0140005

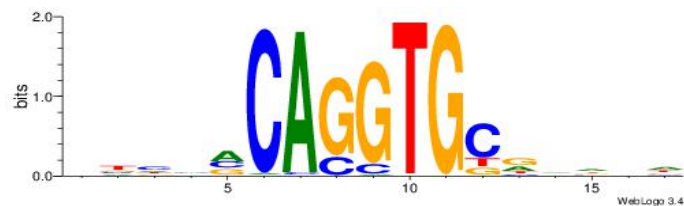
Alignment:

DHDBHGCACCTGBDDVB

----VGCACGTGGH----

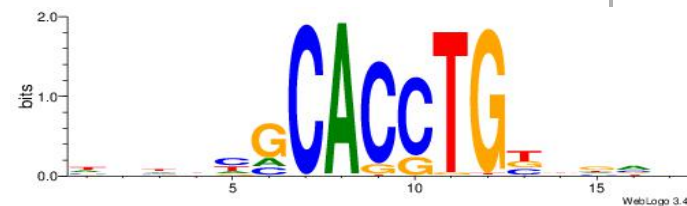
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

BBGHCACGCGACDD

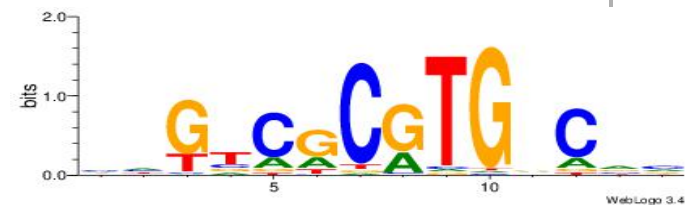
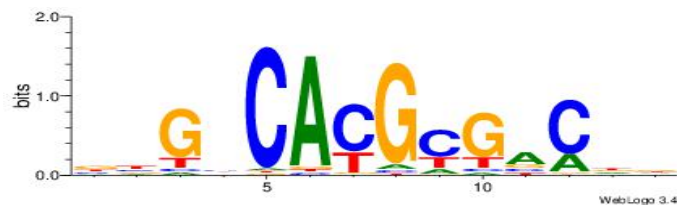
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



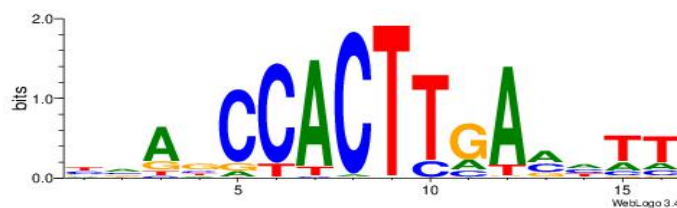
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0311723

Alignment:

BVABCCACTTGAMHTT
 ---DCCACGTGCV---

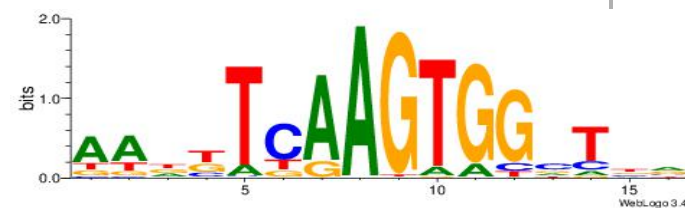
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



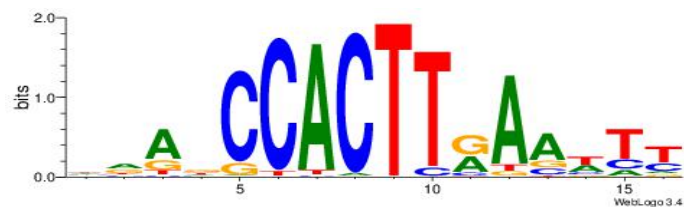
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT
 ---DCCACGTGCV---

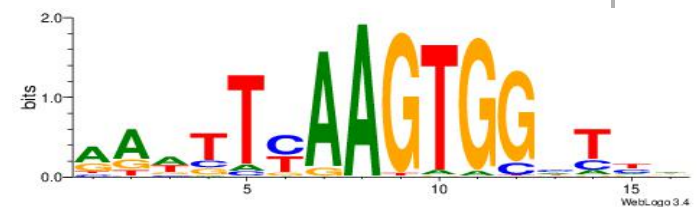
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



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

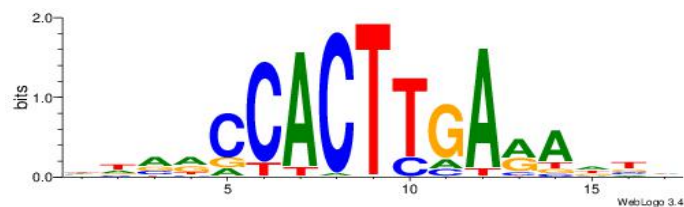
Number of overlap: 10
Similarity score: 0.0334845

Alignment:

HDVRCCACTTGARADBD
---DCCACGTGCV----

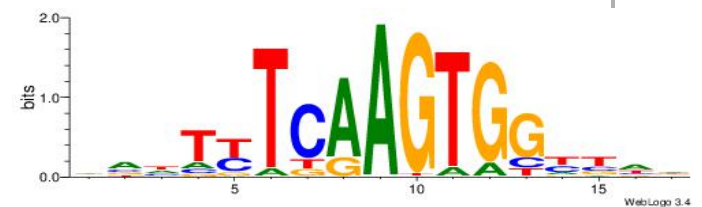
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



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

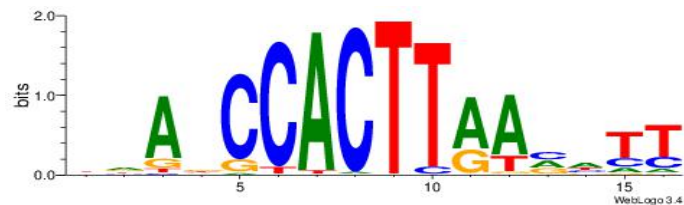
Alignment:

DDADCCACTTAAVHTT
---DCCACGTGCV---

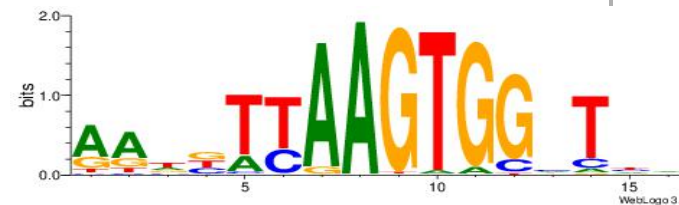
Original motif

Reverse complement motif

Consensus sequence: DDADCCACTTAHVHTT



Consensus sequence: AAHVTTAAGTGGHTDD



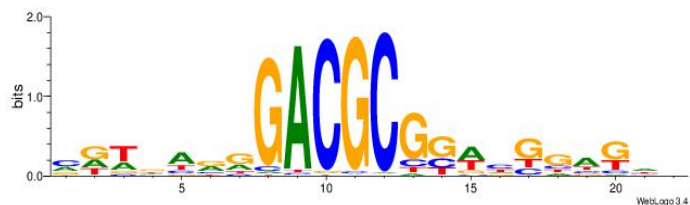
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0363818

Alignment:

VDWDARRGACGCGGWHGGAKHV
-----VGCACGTGGH-----

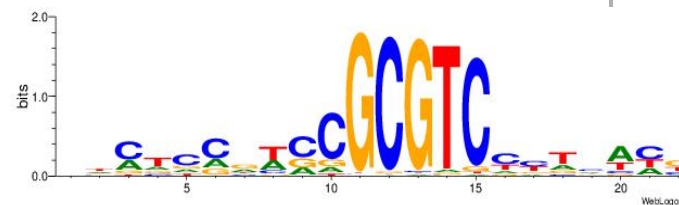
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 3 **Motif ID: 35** **Motif name: GABPA**

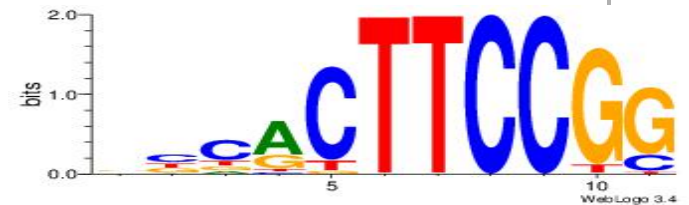
Original motif

Consensus sequence: CCGGAAGTGVV



Reverse complement motif

Consensus sequence: VVCACTTCCGG



Best Matches for Motif ID 35 (Highest to Lowest)

Motif ID:	UP00013
Motif name:	Gabpa_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

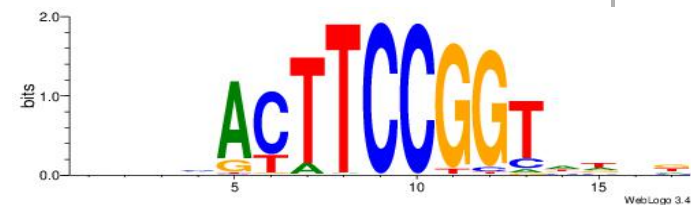
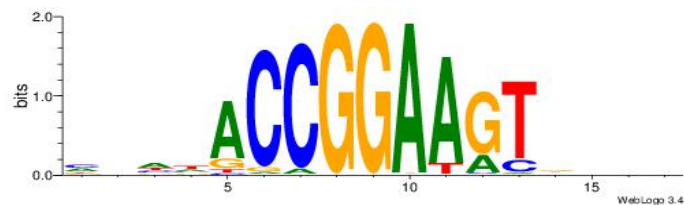
```
BHHHACTTCCGGTHHBD
-VVCACTTCCGG-----
```

Original motif

Consensus sequence: HVHHACCGGAAGTDHHV

Reverse complement motif

Consensus sequence: BHHHACTTCCGGTHHBD

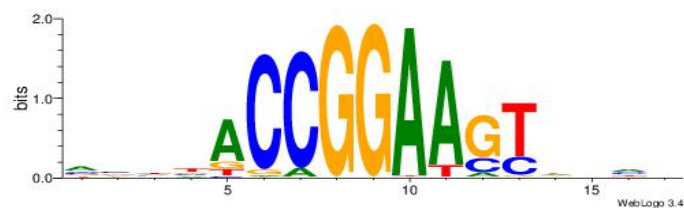


Motif ID: [UP00410](#)
 Motif name: Elk1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000136484

Alignment:
 VVHBACCGGAAGTDBHD
 -----CCGGAAGTGVV-

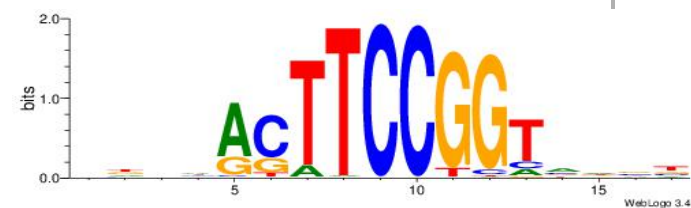
Original motif

Consensus sequence: VVHBACCGGAAGTDBHD



Reverse complement motif

Consensus sequence: DHBDACTTCCGGTVHVB



Motif ID: [UP00420](#)

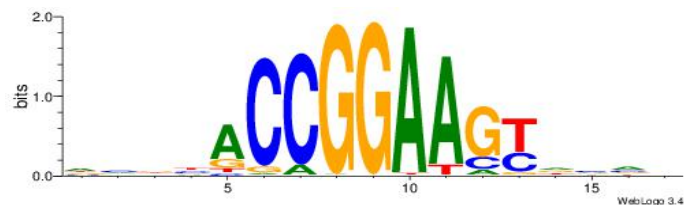
Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000219706

Alignment:

DVBBACCGGAAGYDVVV
 -----CCGGAAGTGvv-

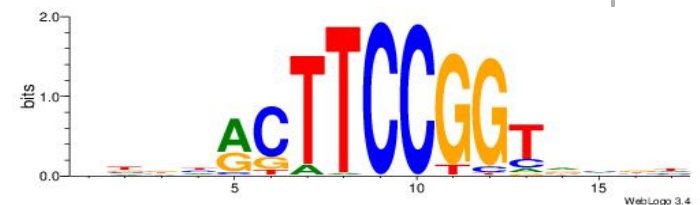
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDmCTTCCGGTVBVd



Motif ID: [UP00421](#)
 Motif name: Etv1
 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: 0.000932023

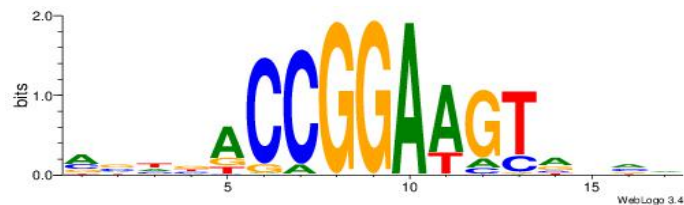
Alignment:

MVHBACCGGAAGTVDVH

-----CCGGAAGTGVV-

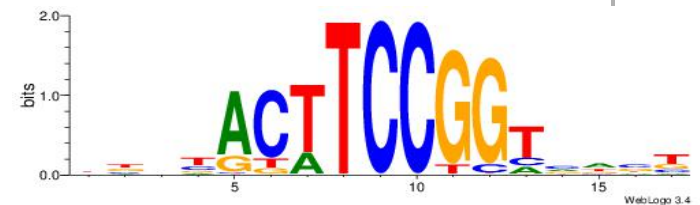
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



Motif ID: [UP00404](#)

Motif name: Elf2

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 2

Number of overlap: 11

Similarity score: 0.00527483

Alignment:

DBBHACTTCCGGDWDB

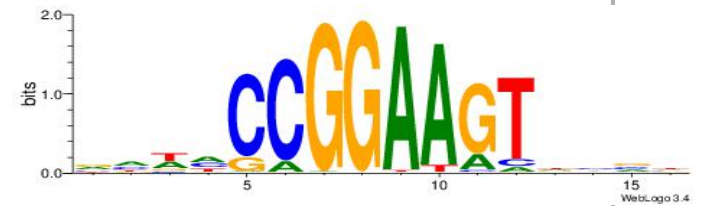
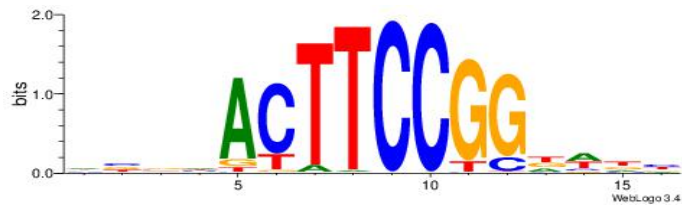
-VVC ACTTCCGG----

Original motif

Consensus sequence: DBBHACTTCCGGDWDB

Reverse complement motif

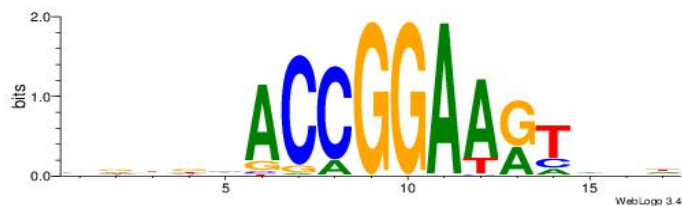
Consensus sequence: BDWDCCGGAAGTHBBD



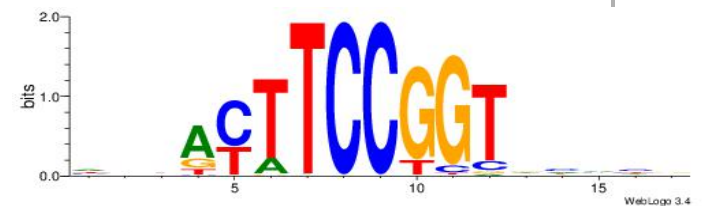
Motif ID: [UP00414](#)
 Motif name: Ets1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.00805613

Alignment:
 BDDDHACCGGAARTVDD
 -----CCGGAAGTG V

Original motif
 Consensus sequence: BDDDHACCGGAARTVDD



Reverse complement motif
 Consensus sequence: DDBAMTTCCGGTDHDB



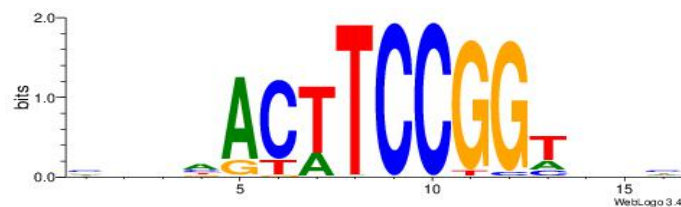
Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00933976

Alignment:

VDDHACTTCCGGTHVH
 -VCACTTCCGG-----

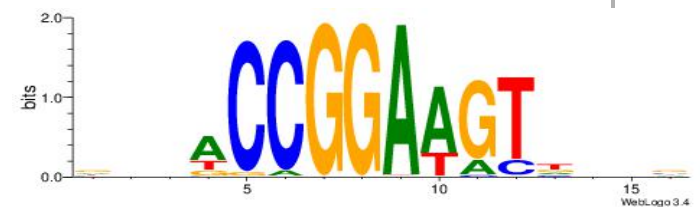
Original motif

Consensus sequence: VDDHACTTCCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



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: 5

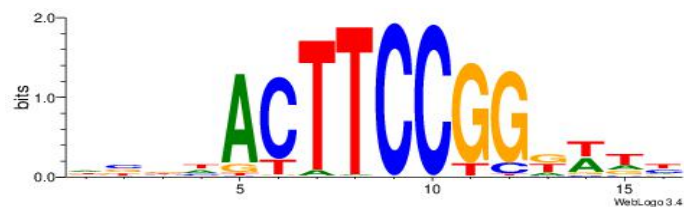
Number of overlap: 11
Similarity score: 0.00992792

Alignment:

DBBHACTTCCGGKWTH
-VVCACTTCCGG----

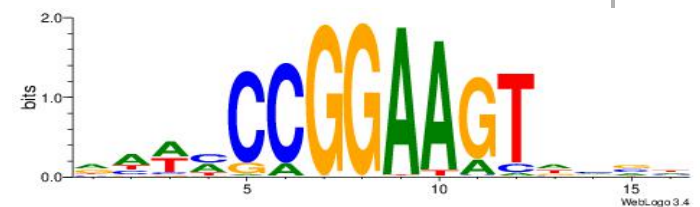
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



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: 5
Number of overlap: 11
Similarity score: 0.0114183

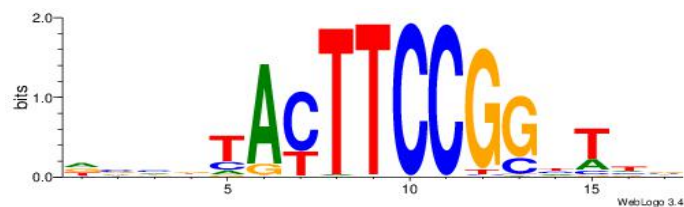
Alignment:

DVHBTACTTCCGGHTHB
--VVCACTTCCGG----

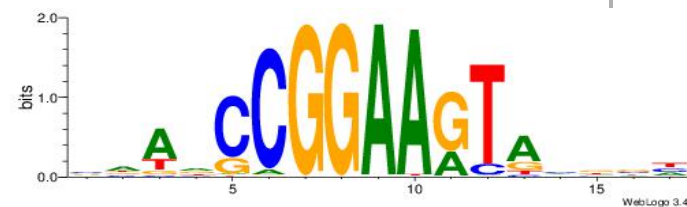
Original motif

Reverse complement motif

Consensus sequence: DVHBTACTTCCGGHTHB



Consensus sequence: BHAHCCGGAAGTABDVD



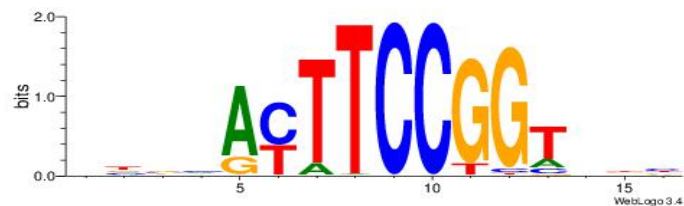
Motif ID: [UP00411](#)
Motif name: Erg
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0122484

Alignment:

BDDACCGGAAKTVBVB
-----CCGGAAGTGVV--

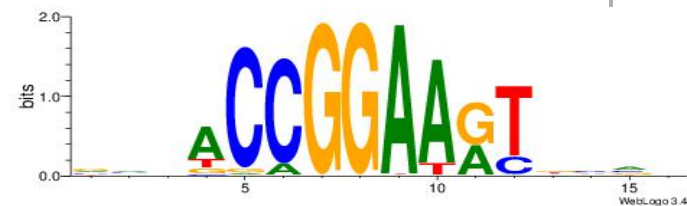
Original motif

Consensus sequence: VBBVAYTTCCGGTDDB



Reverse complement motif

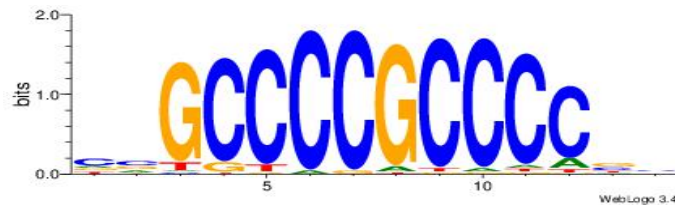
Consensus sequence: BDDACCGGAAKTVBVB



Dataset #: 4 **Motif ID: 36** **Motif name: csGCCCCGCCCCsc**

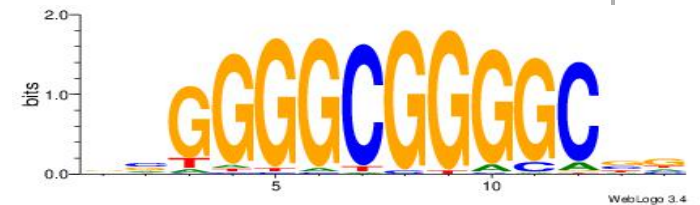
Original motif

Consensus sequence: HVGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



Best Matches for Motif ID 36 (Highest to Lowest)

Motif ID:	UP00093
Motif name:	Klf7_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0

Alignment:

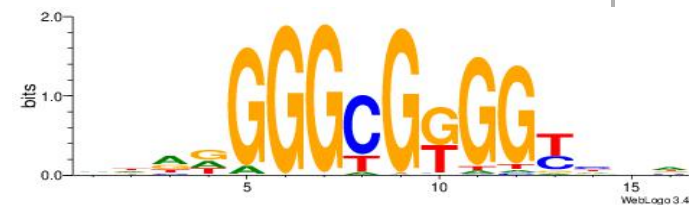
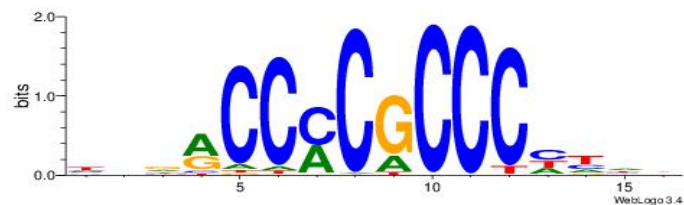
```
HBDRCCMCGCCCHHHD
-HVGCCCCGCCCCBB-
```

Original motif

Consensus sequence: HBDRCCMCGCCCHHHD

Reverse complement motif

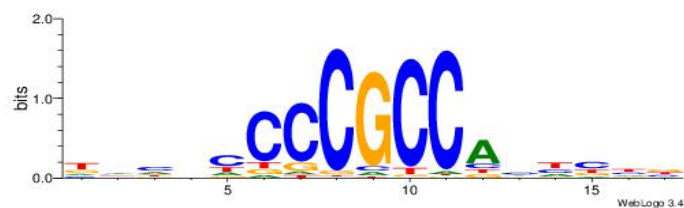
Consensus sequence: DHHDGGGCGRGGKHBH



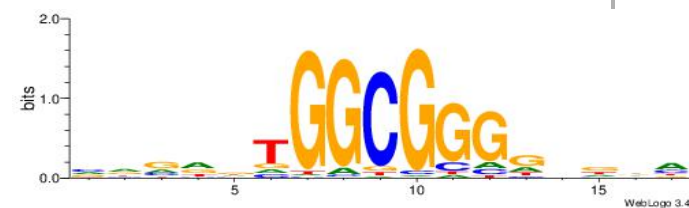
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0106621

Alignment:
 DHHBCCCCGCCAHHBHB
 -HVGCCCCGCCCB--

Original motif
 Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif
 Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00021](#)

Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.017761

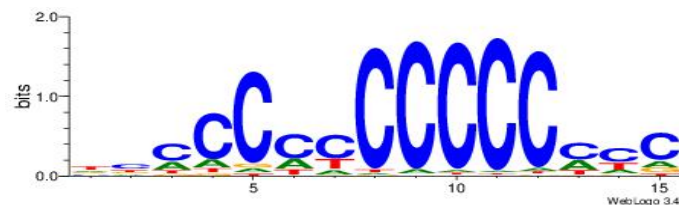
Alignment:

GKRGGGGGGGGGGBD

BBGGGGCGGGGCVD-

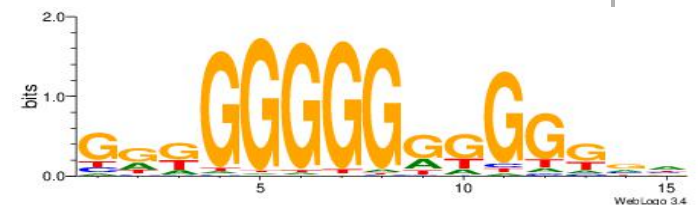
Original motif

Consensus sequence: DBCCCCCCCCCMYC

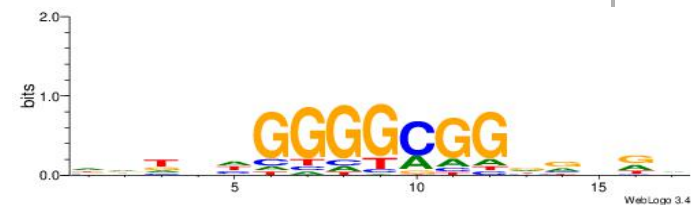
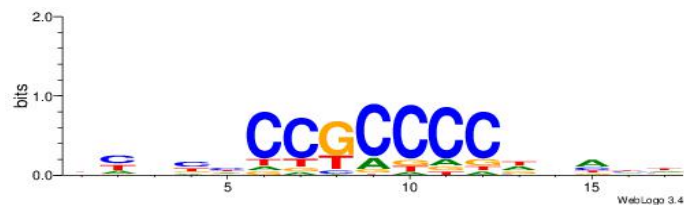


Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14



Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0277585

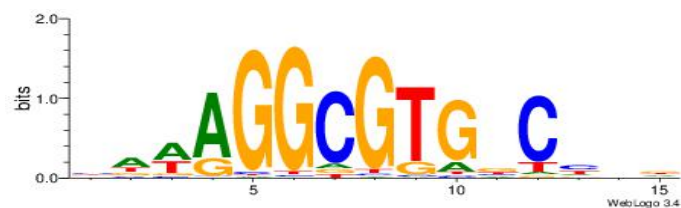
Alignment:

BDWAGGCGTGBCHHD

BBGGGGCGGGGCVD-

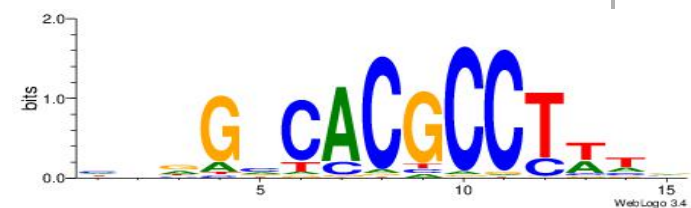
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00007](#)

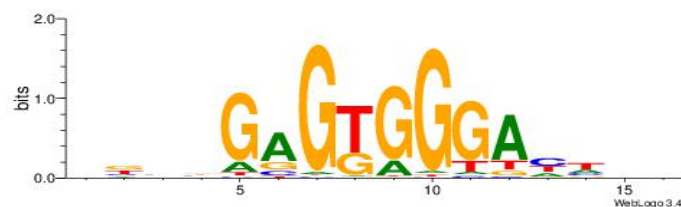
Motif name:	Egr1_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0318885

Alignment:

BHHDTCCTCACTCBDBV
 -HVGCCCGCCCCBB-

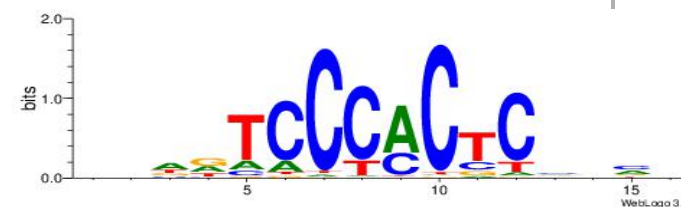
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



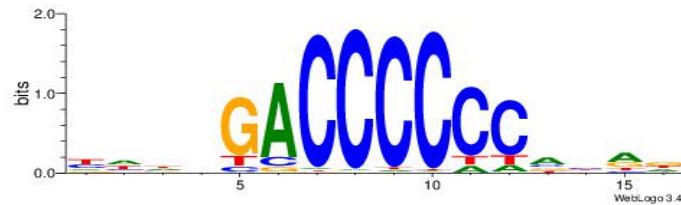
Motif ID:	UP00024
Motif name:	Glis2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0330753

Alignment:

HKBBGGGGGGTCTVHHH
BBGGGGCGGGGCVD--

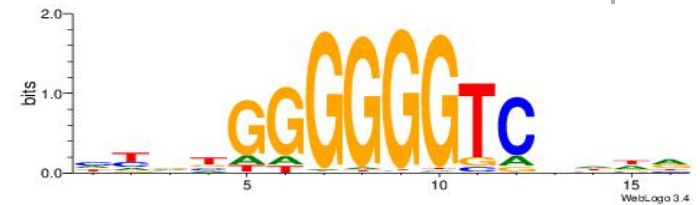
Original motif

Consensus sequence: HHHVGACCCCCCVBRD



Reverse complement motif

Consensus sequence: HKBBGGGGGGTCTVHHH



Motif ID: [UP00540](#)
Motif name: Gli3_v016060_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: 14
Similarity score: 0.0334003

Alignment:

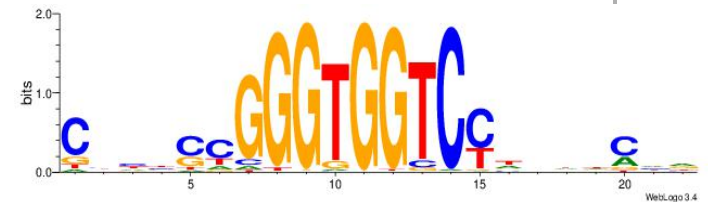
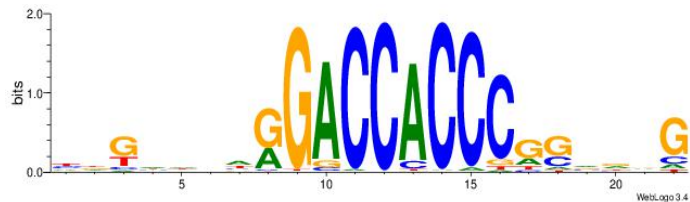
CVHBSCGGGTGGTCMHVHHCDH
---BBGGGGCGGGGCVD-----

Original motif

Consensus sequence: HDGHHBHRGACCACCGSVDVG

Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH

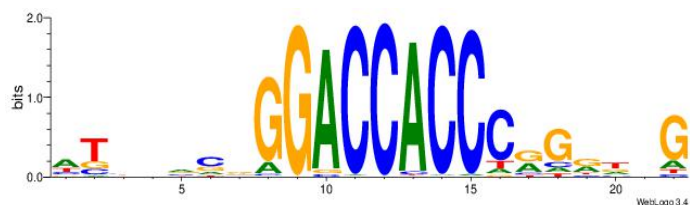


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0351614

Alignment:
 CBDMCMGGGTGGTCCHVBVBAH
 ---BBGGGGCGGGGCVD-----

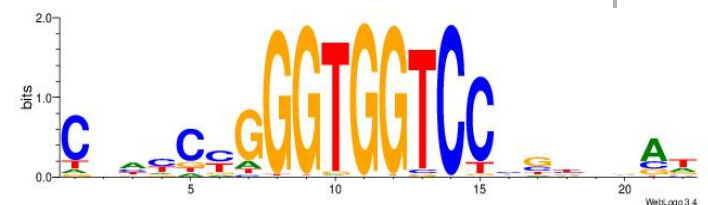
Original motif

Consensus sequence: HTBVVVDGGACCACCCRGRDBG



Reverse complement motif

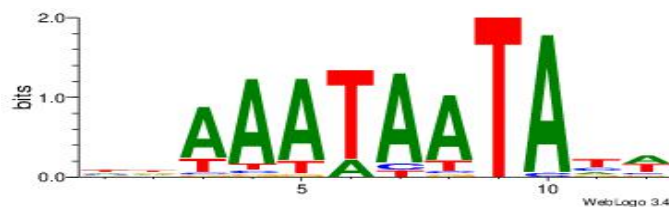
Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Dataset #: 4 **Motif ID: 37** **Motif name: tkAAATAATatw**

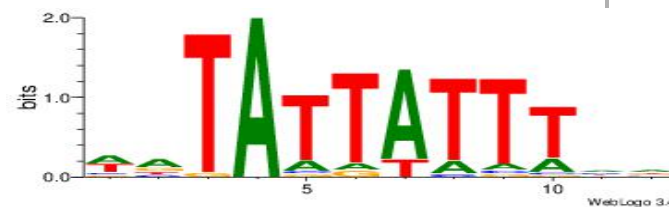
Original motif

Consensus sequence: HDAAATAATAHW



Reverse complement motif

Consensus sequence: WHTATTATTTDH



Best Matches for Motif ID 37 (Highest to Lowest)

Motif ID:	UP00121
Motif name:	Hoxd10
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:	12
Similarity score:	0.00353196

Alignment:

HDDDATTTTATTKVRDB

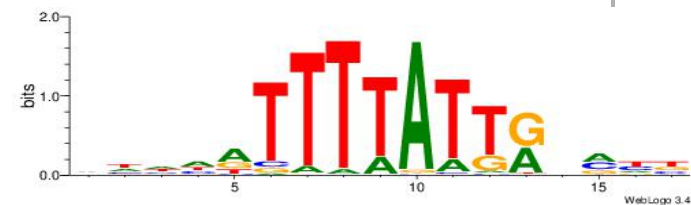
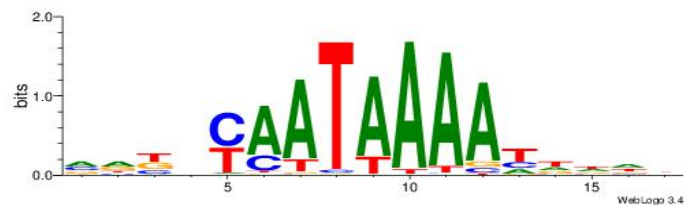
---WHTATTATTTDH--

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

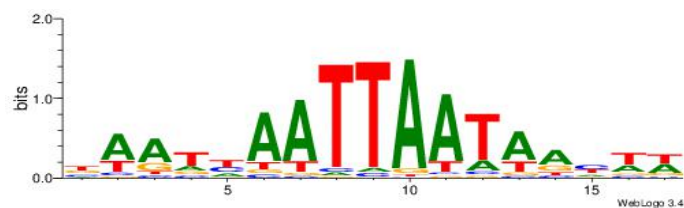


Motif ID: [UP00244](#)
 Motif name: Tlx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.00646023

Alignment:
 WDDTTATTAATTHATTV
 --WHTATTATTTDH---

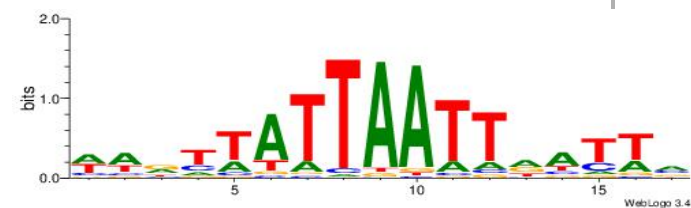
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WDDTTATTAATTHATTV



Motif ID: [UP00051](#)

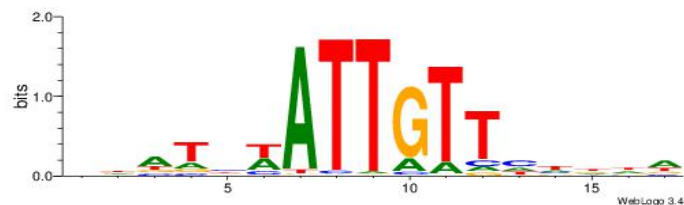
Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0120674

Alignment:

DDDHDAACAATWBATDD
 --HDAAATAATAHW---

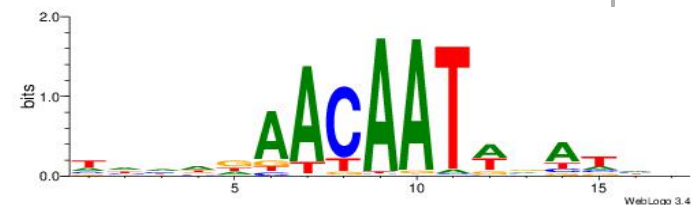
Original motif

Consensus sequence: DDATBWATTGTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



Motif ID: [UP00180](#)
 Motif name: Hoxd13
 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: 12

Similarity score: 0.0123772

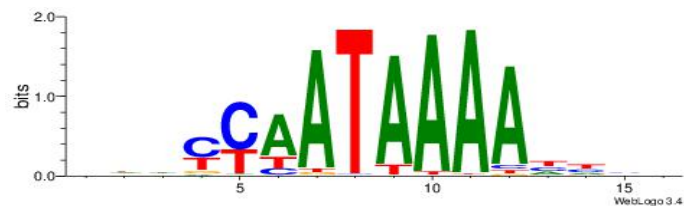
Alignment:

HDHHTTTTATTKKHDD

--WHTATTATTTDH--

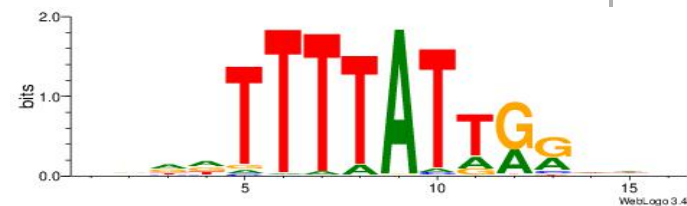
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



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: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0129559

Alignment:

HHHTTRTTDTTTKDH

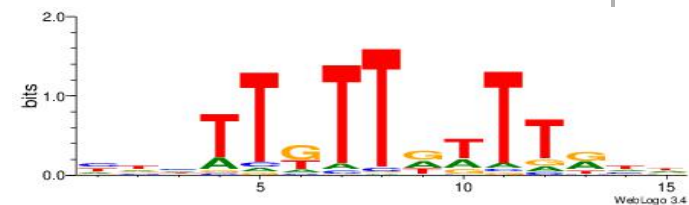
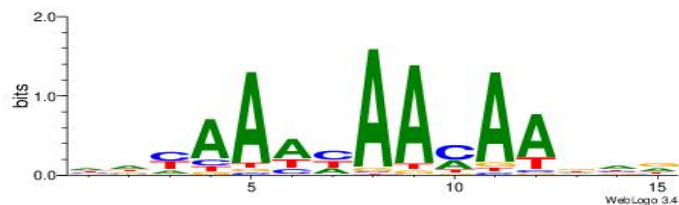
--WHTATTATTTDH--

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



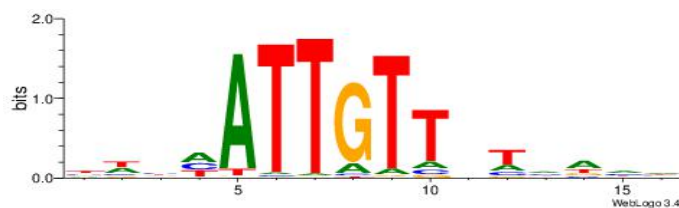
Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0130138

Alignment:

HHDHABAACAATHBWV
 ---HDAAATAATAHW-

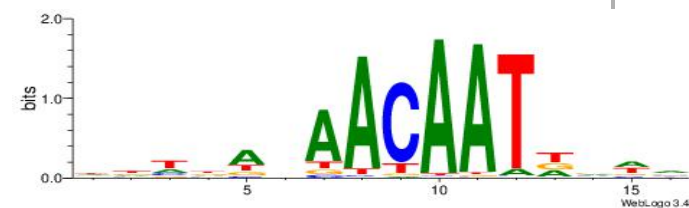
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV

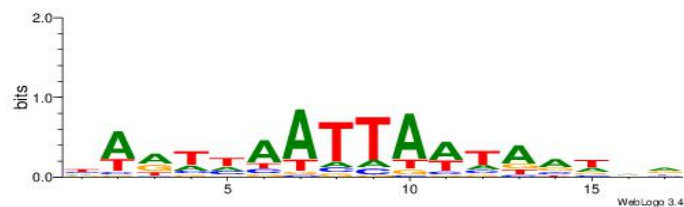


Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0131034

Alignment:
 HARTHAATTAWTAVDHD
 ---HDAAATAATAHW--

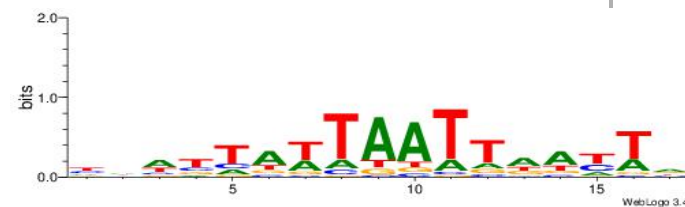
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTTHAKTH



Motif ID: [UP00024](#)
 Motif name: Glis2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12

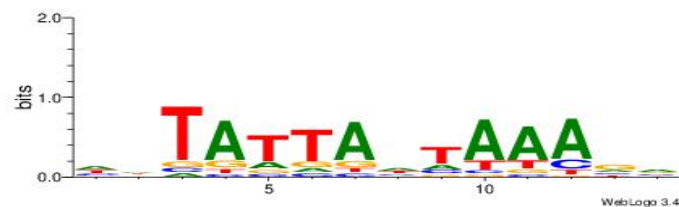
Similarity score: 0.0140433

Alignment:

BVTTTAHTAATADH
WHTATTATTTDH--

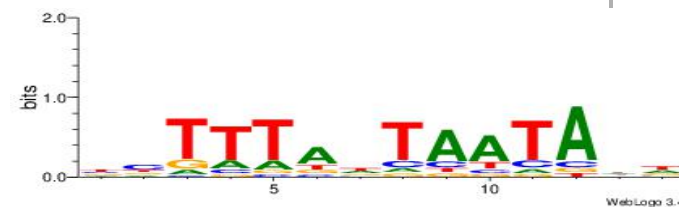
Original motif

Consensus sequence: HDTATTAHTAAAVV



Reverse complement motif

Consensus sequence: BVTTTAHTAATADH



Motif ID: [UP00075](#)
Motif name: Sox15_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: 12
Similarity score: 0.0143532

Alignment:

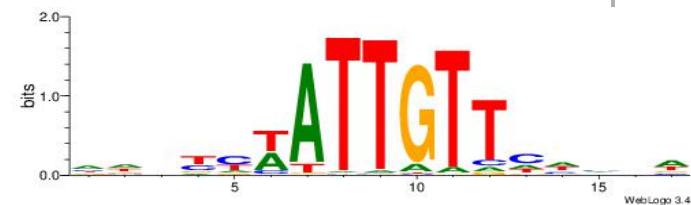
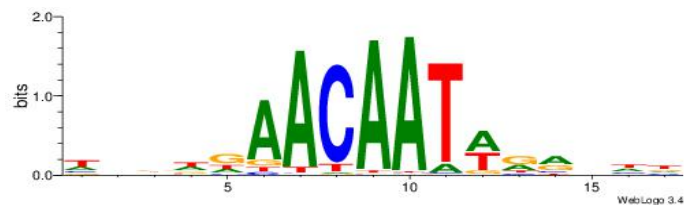
DHVKMWATTGTTHDHDH
---WHTATTATTTDH--

Original motif

Consensus sequence: HDDDDAACAATWRRBHD

Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH

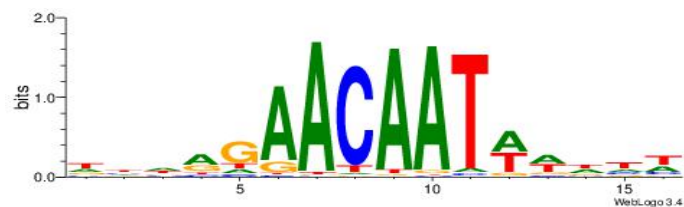


Motif ID: [UP00096](#)
 Motif name: Sox13_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.014607

Alignment:
 DHDRGAACAATWWDHW
 --HDAAATAATAHW--

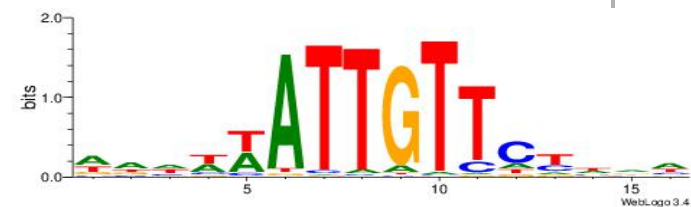
Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

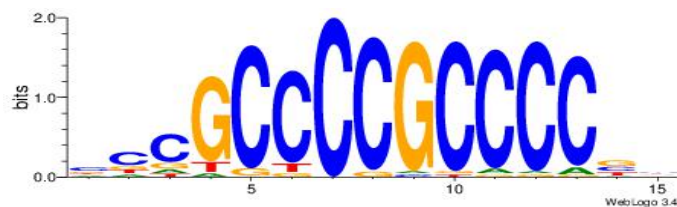
Consensus sequence: WHDWWATTGTTCKDHD



Dataset #: 4 **Motif ID: 38** **Motif name: cccGCCCCGCCCCsb**

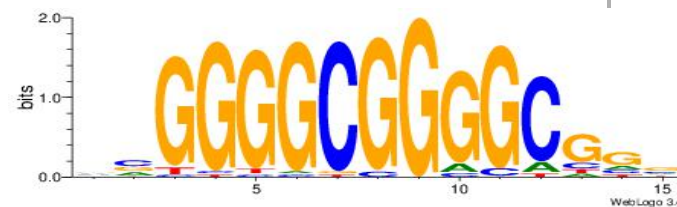
Original motif

Consensus sequence: BCCGCCCCGCCCCBB



Reverse complement motif

Consensus sequence: BBGGGGCGGGGCGGB



Best Matches for Motif ID 38 (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:	2
Number of overlap:	15
Similarity score:	0.00481788

Alignment:

HBDRCCMCGCCCHHHD

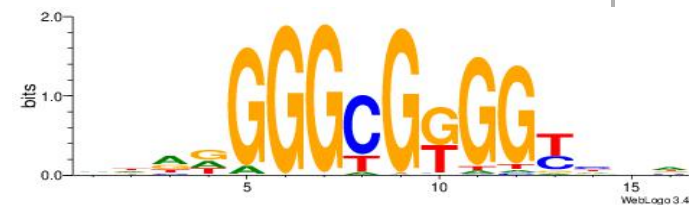
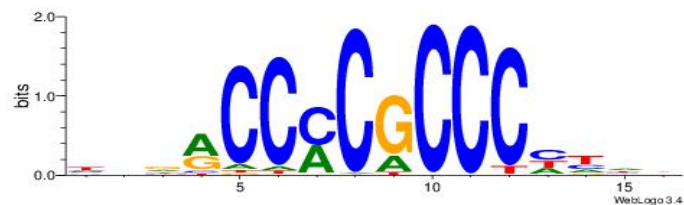
BCCGCCCCGCCCCBB-

Original motif

Consensus sequence: HBDRCCMCGCCCHHHD

Reverse complement motif

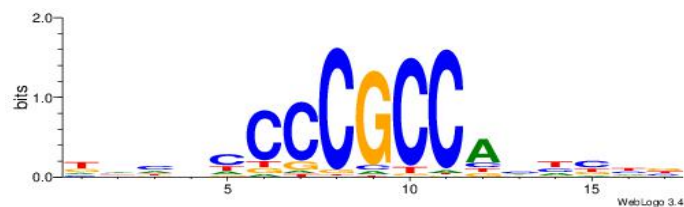
Consensus sequence: DHHDGGGCGRGGKHBH



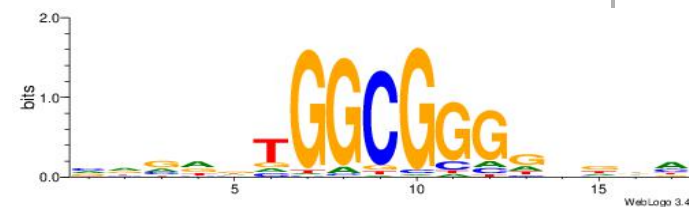
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0108117

Alignment:
 DHHBCCCCGCCAHHBHB
 BCCGCCCCGCCCB--

Original motif
 Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif
 Consensus sequence: BHBHDTGGCGGGBDHD



Motif ID: [UP00021](#)

Motif name: Zfp281_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: 15
 Similarity score: 0.0154152

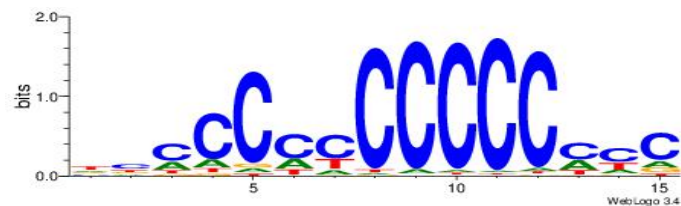
Alignment:

GKRGGGGGGGGGGBD

BBGGGGCGGGGCGGB

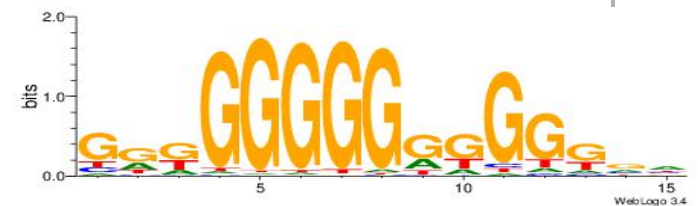
Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00022](#)
 Motif name: Zfp740_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 15

Similarity score: 0.018287

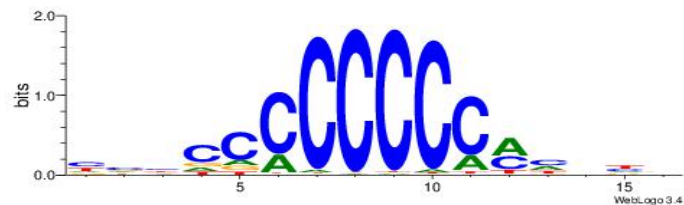
Alignment:

HVBCCCCCCCCMHHHB

BCCGCCCCGCCCCBB-

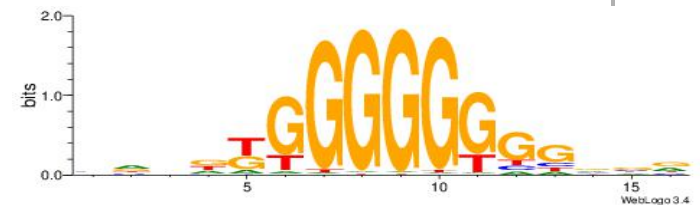
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



Motif ID: [UP00002](#)

Motif name: Sp4_secondary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 1

Number of overlap: 15

Similarity score: 0.0247447

Alignment:

BDWAGGCGTGBCHHD

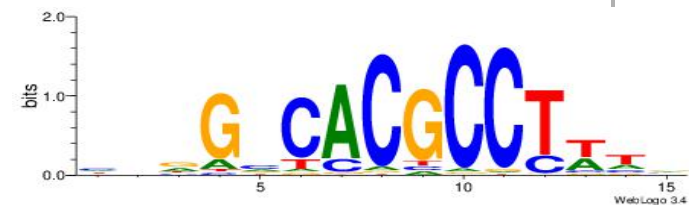
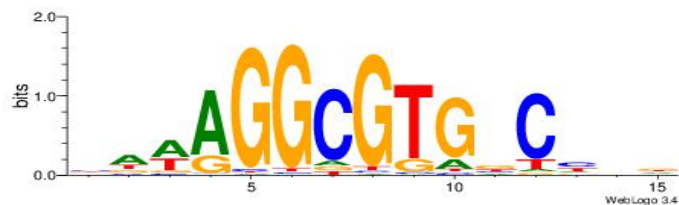
BBGGGGCGGGGCGGB

Original motif

Consensus sequence: BDWAGGCGTGBCHHD

Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



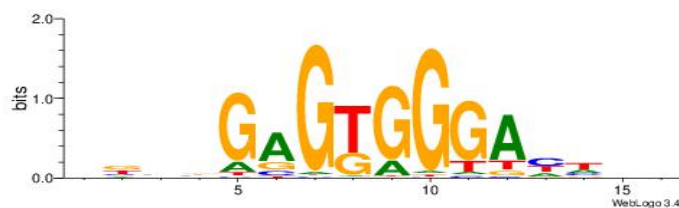
Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0.0279869

Alignment:

BHHDTCCTCACTCBDBV
 BCCGCCCCGCCCCBB-

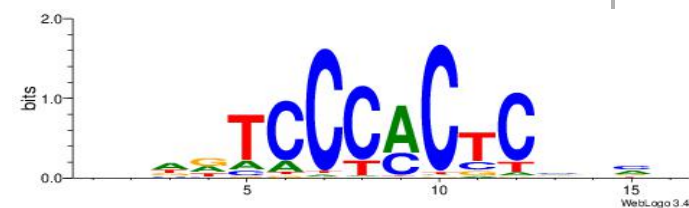
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



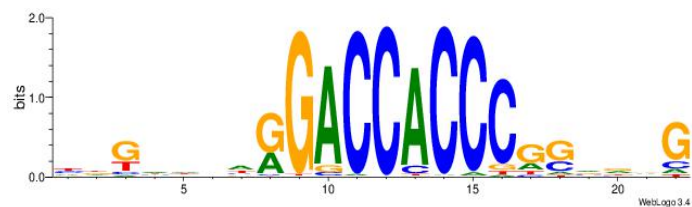
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 15
 Similarity score: 0.0312526

Alignment:

CVHBSCGGGTGGTCMHVHHCDH
 ---BBGGGGCGGGCGGB-----

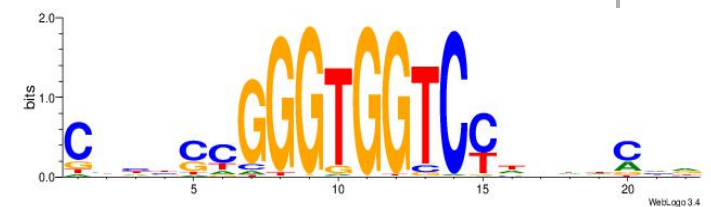
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00099](#)
 Motif name: Ascl2_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: 15

Similarity score: 0.0318321

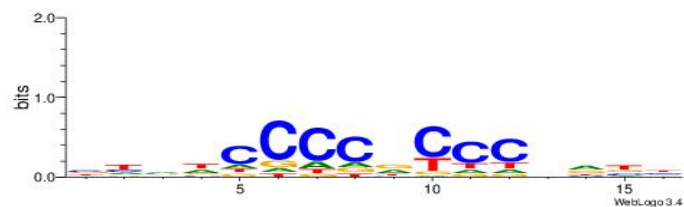
Alignment:

BHVDCCCCDCCCBDBH

BCCGCCCCGCCCCBB-

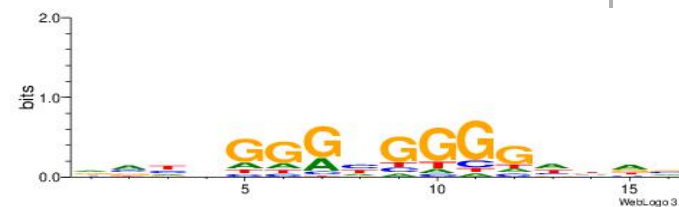
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00527](#)

Motif name: Foxn4_secondary

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Backward

Position number: 4

Number of overlap: 15

Similarity score: 0.0340857

Alignment:

VHYTCCDWCCGCGTCMMTHWHV

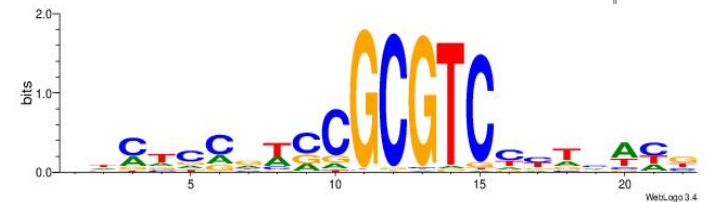
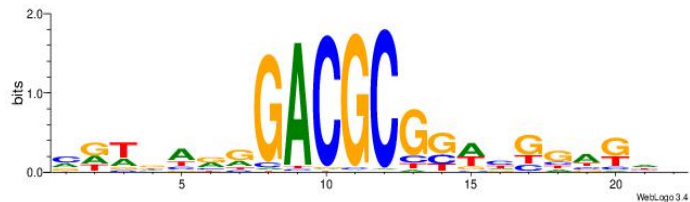
----BCCGCCCCGCCCCBB---

Original motif

Consensus sequence: VDW DARRGACGCGGWHGGA KHV

Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV

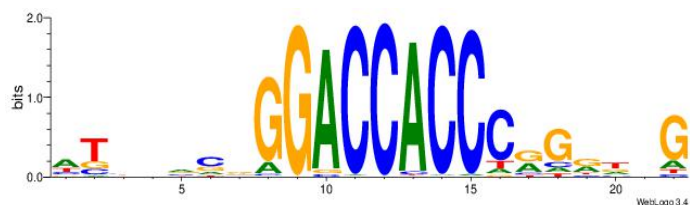


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 15
 Similarity score: 0.0345185

Alignment:
 CBDMCMGGGTGGTCCHVBVBAH
 ---BBGGGGCGGGCGGB----

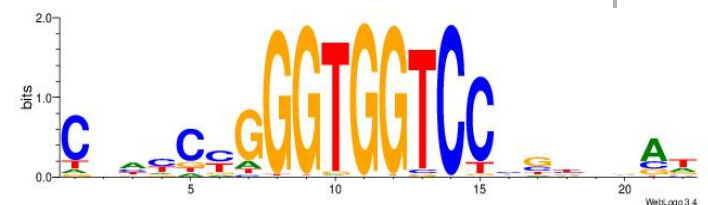
Original motif

Consensus sequence: HTBVVDGGACCACCCRGRDBG



Reverse complement motif

Consensus sequence: CBDMCMGGGTGGTCCHVBVBAH



Dataset #: 4 **Motif ID: 39** **Motif name: kCAGCCAATmr**

Original motif

Consensus sequence: DCAGCCAATVR



Reverse complement motif

Consensus sequence: MBATTGGCTGH



Best Matches for Motif ID 39 (Highest to Lowest)

Motif ID:	UP00033
Motif name:	Zfp410_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.000708728

Alignment:

BDDYYCATCCCATDDBD

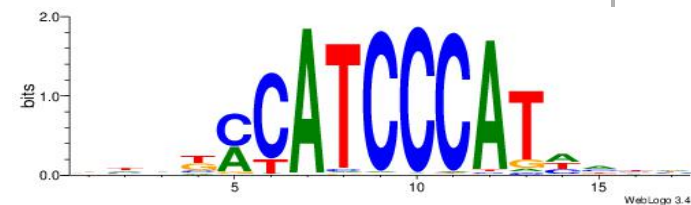
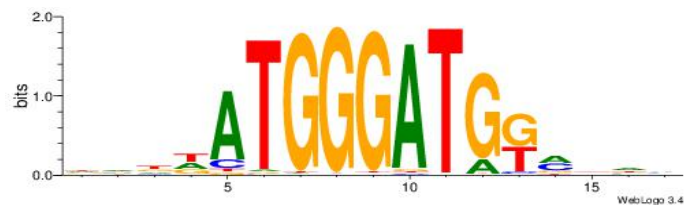
----DCAGCCAATVR--

Original motif

Consensus sequence: DVDDATGGGATGKMDDV

Reverse complement motif

Consensus sequence: BDDYYCATCCCATDDBD

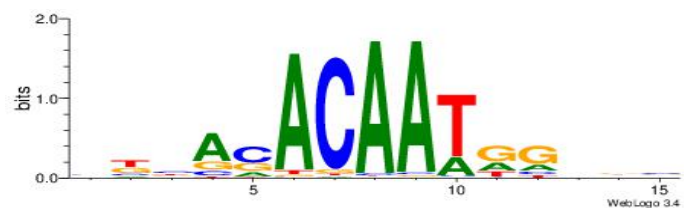


Motif ID: [UP00004](#)
 Motif name: Sox14_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00658734

Alignment:
 BKBASACAATRGHBB
 -DCAGCCAATVR---

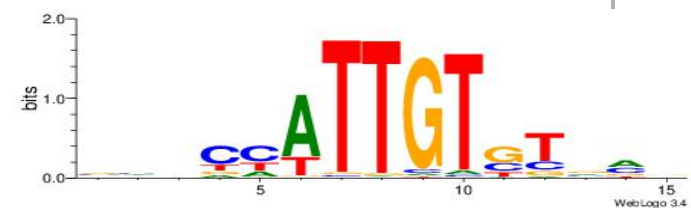
Original motif

Consensus sequence: BKBASACAATRGHBB



Reverse complement motif

Consensus sequence: BBDCMATTGTSTBRB



Motif ID: [UP00249](#)

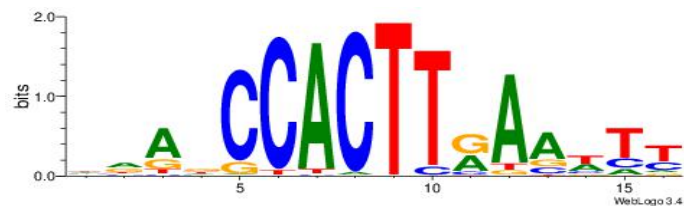
Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.00805715

Alignment:

AAWTTMAAGTGGHTDH
 -----MBATTGGCTGH

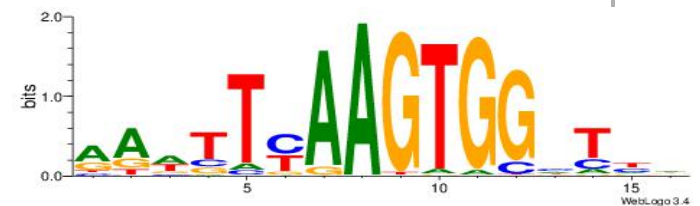
Original motif

Consensus sequence: HDADCCACTTAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



Motif ID: [UP00147](#)
 Motif name: Nkx2-6
 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: 11

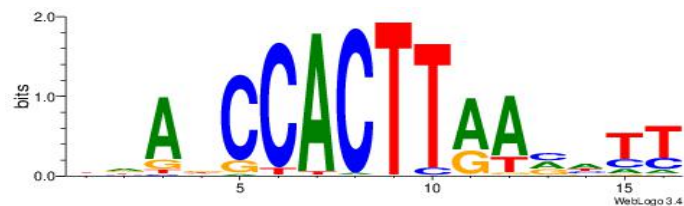
Similarity score: 0.0128272

Alignment:

DDADCCACTTAAVHTT
DCAGCCAATVR-----

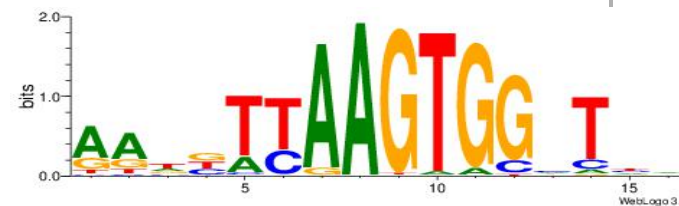
Original motif

Consensus sequence: DDADCCACTTAAVHTT



Reverse complement motif

Consensus sequence: AAHVTTAAGTGGHTDD



Motif ID: [UP00165](#)
Motif name: Titf1
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: 0.0131729

Alignment:

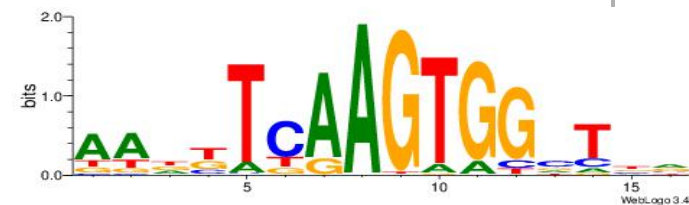
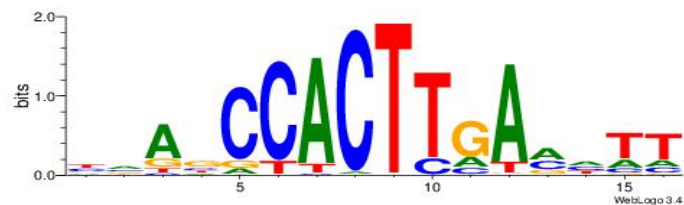
AAHYTCAAGTGGTBV
-----MBATTGGCTGH

Original motif

Consensus sequence: BVABCCACTTGAMHTT

Reverse complement motif

Consensus sequence: AAHYTCAAGTGGTBV

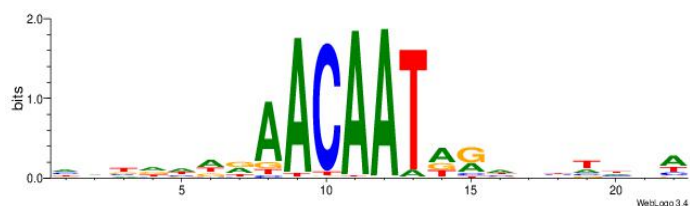


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.0131873

Alignment:
 HHBDHDDAACAATDRHHHHHBW
 ----DCAGCCAATVR-----

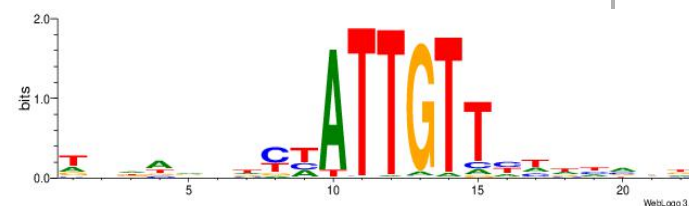
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



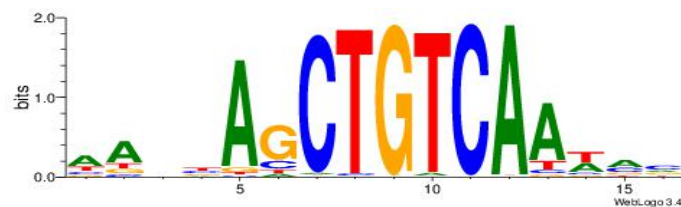
Motif ID: [UP00258](#)

Motif name: Tgif2
 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: 0.0132199

Alignment:
 AAB BAGCTGTCAAWV
 -----DCAGCCAATVR

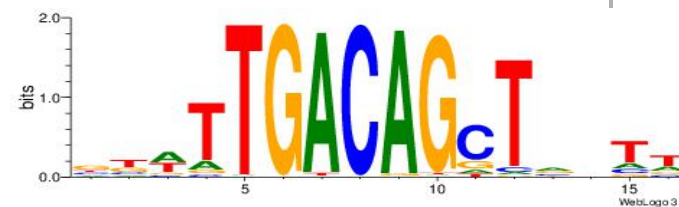
Original motif

Consensus sequence: AAB BAGCTGTCAAWV



Reverse complement motif

Consensus sequence: VBWTTGACAGCTVBTT



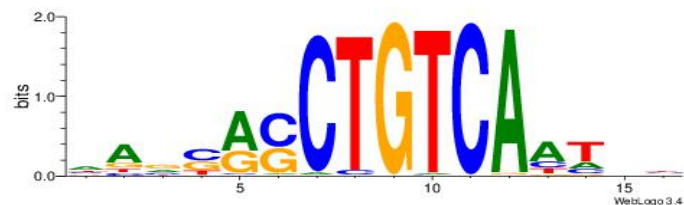
Motif ID: [UP00205](#)
 Motif name: Pknox2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0138143

Alignment:

VHATTGACAGSKSVTH
MBATTGGCTGH-----

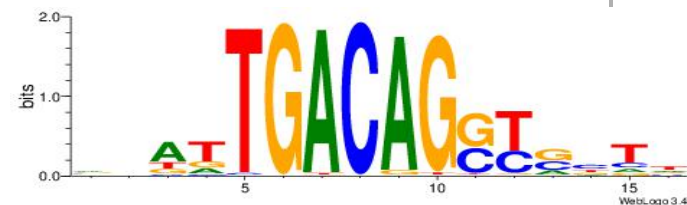
Original motif

Consensus sequence: HAVSRCTGTCAATHB



Reverse complement motif

Consensus sequence: VHATTGACAGSKSVTH



Motif ID:	UP00023
Motif name:	Sox30_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:	11
Similarity score:	0.0141895

Alignment:

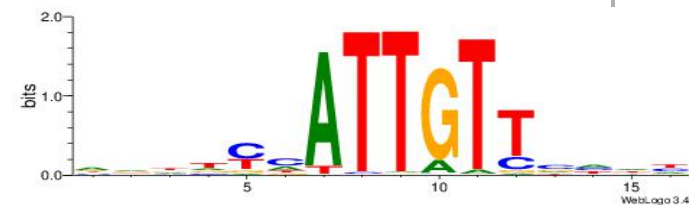
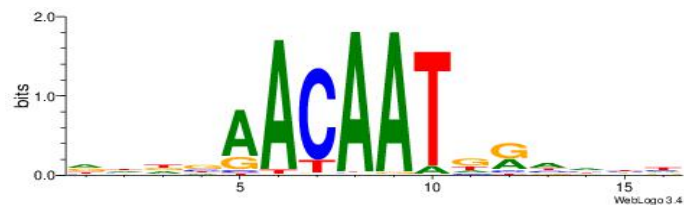
HHHHMHATTGTTBDHD
-----MBATTGGCTGH-

Original motif

Consensus sequence: DHDBAACAATDRHHHH

Reverse complement motif

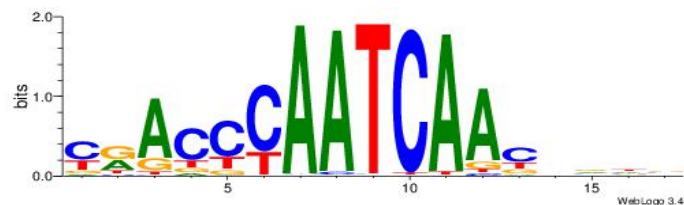
Consensus sequence: HHHHMHATTGTTBDHD



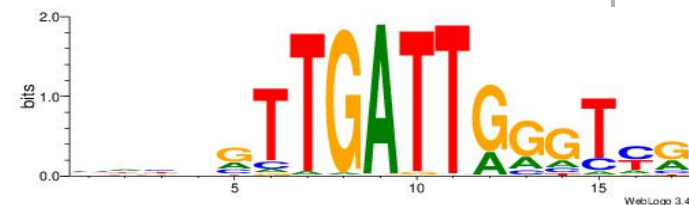
Motif ID: [UP00227](#)
 Motif name: Duxl
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.0154208

Alignment:
 YRACCCAATCAACVVHV
 DCAGCCAATVR-----

Original motif
 Consensus sequence: YRACCCAATCAACVVHV



Reverse complement motif
 Consensus sequence: VHVVGTTGATTGGGTMK



Dataset #: 4 **Motif ID: 40** **Motif name: kcACCTGCAGc**

Original motif

Consensus sequence: BCACCTGCABC



Reverse complement motif

Consensus sequence: GBTGCAGGTGB



Best Matches for Motif ID 40 (Highest to Lowest)

Motif ID: [UP00070](#)
Motif name: Gcm1_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: 11
Similarity score: 0

Alignment:

DHDVATGCGGGTHVVH

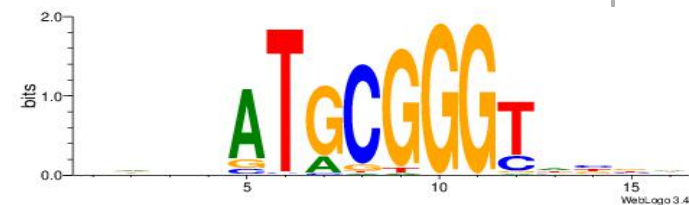
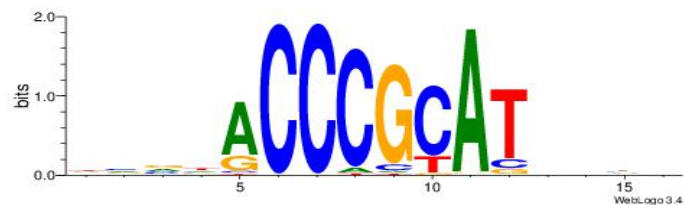
---GBTGCAGGTGB--

Original motif

Consensus sequence: HVVHACCCGCATVDHD

Reverse complement motif

Consensus sequence: DHDVATGCGGGTHVVH

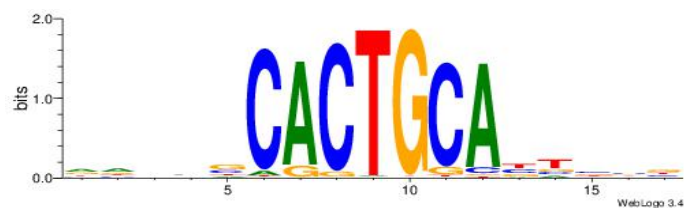


Motif ID: [UP00031](#)
 Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.000503863

Alignment:
 BBBAVTGCAGTGBBVDD
 ---GBTGCAGGTGB---

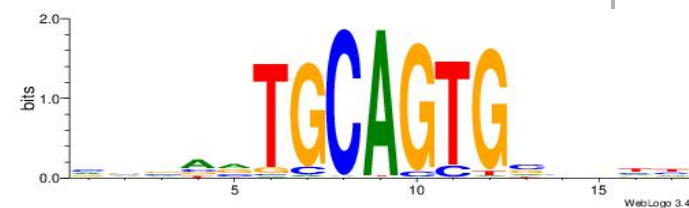
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00046](#)

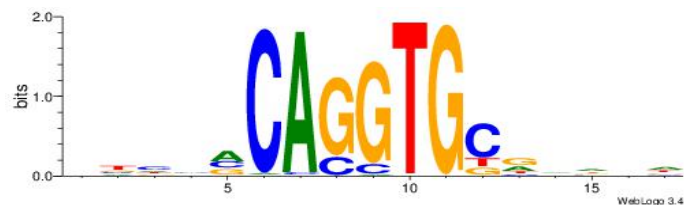
Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000557448

Alignment:

DHDBHGCACCTGBDDVB
 -----BCACCTGCABC-

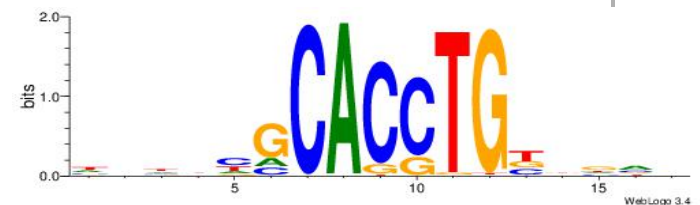
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00099](#)
 Motif name: Ascl2_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: 0.00842747

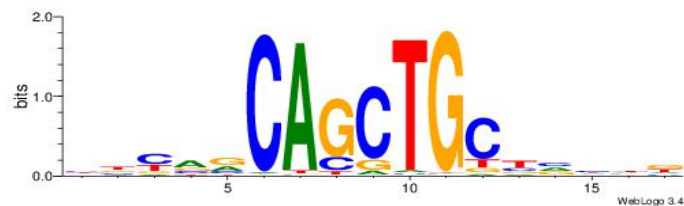
Alignment:

BBYVVCAGCTGCBVHHD

----BCACCTGCABC--

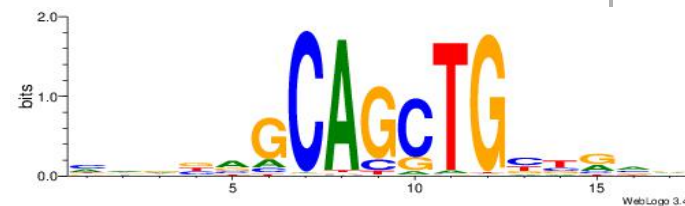
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKV



Motif ID: [UP00420](#)
Motif name: Elk3
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: 11
Similarity score: 0.0111732

Alignment:

DVBBACCGGAAGYDVVV

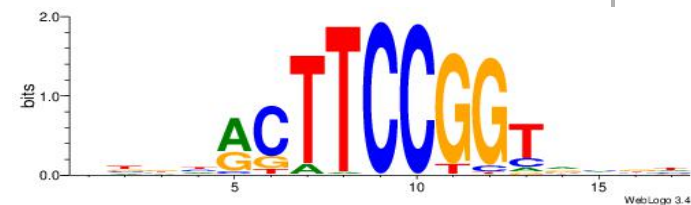
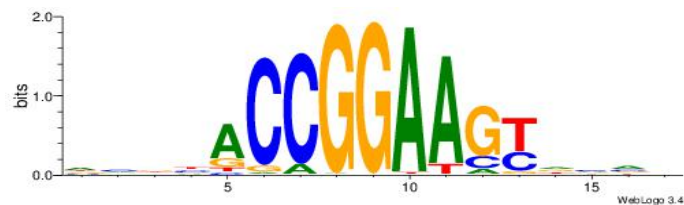
--BCACCTGCABC----

Original motif

Consensus sequence: DVBBACCGGAAGYDVVV

Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



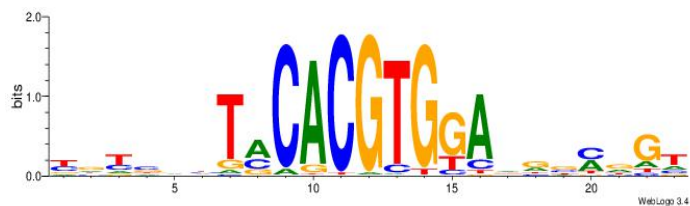
Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 11
 Similarity score: 0.0122671

Alignment:

ACHRBHDTCCACGTGYAHBMMH
 -----BCACCTGCABC-----

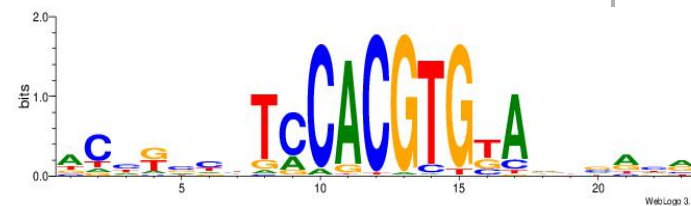
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



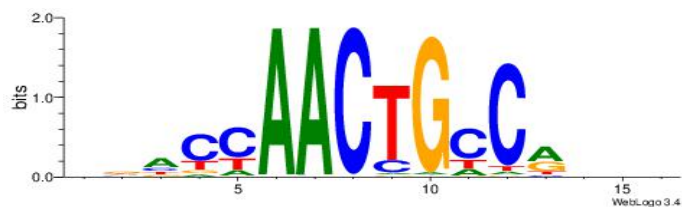
Motif ID: [UP00092](#)
 Motif name: Myb_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.015733

Alignment:

BDACCAACTGCCRBH
 ---BCACCTGCABC--

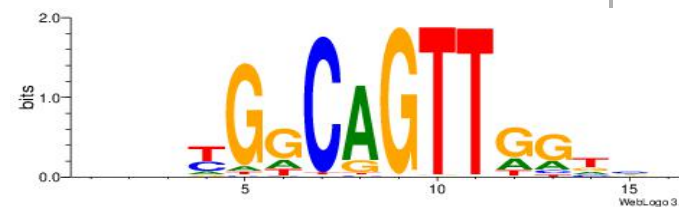
Original motif

Consensus sequence: BDACCAACTGCCRBH



Reverse complement motif

Consensus sequence: DBVKGGCAGTTGGTHB



Motif ID: [UP00236](#)
 Motif name: Irx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4

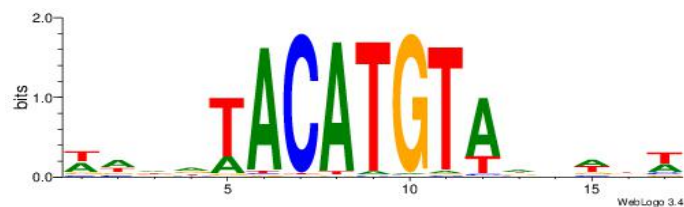
Number of overlap: 11
Similarity score: 0.0163141

Alignment:

WVWDDTACATGTADDDW
---GBTGCAGGTGB---

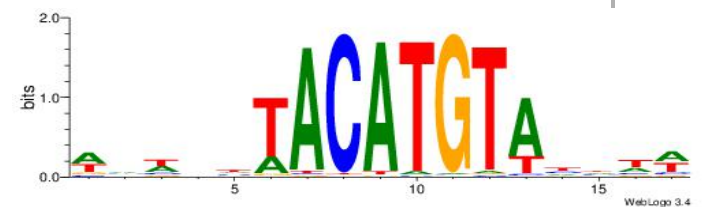
Original motif

Consensus sequence: WDDDTACATGTADDWBW



Reverse complement motif

Consensus sequence: WVWDDTACATGTADDDW



Motif ID: [UP00223](#)
Motif name: Irx3_0920.1
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: 11
Similarity score: 0.0165255

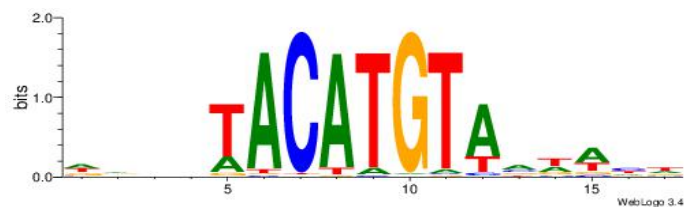
Alignment:

DDWWBTACATGTADDDD
----BCACCTGCABC--

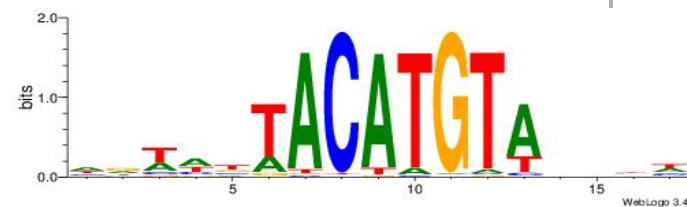
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVVWHHD



Consensus sequence: DDWWBTACATGTADDDD



Motif ID: [UP00057](#)
Motif name: Zic2_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: 0.0169178

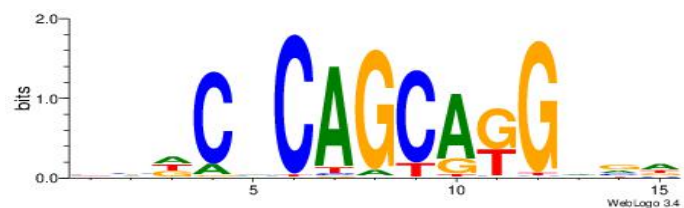
Alignment:

DVBCYTGCTGBGDDD

BCACCTGCABC-----

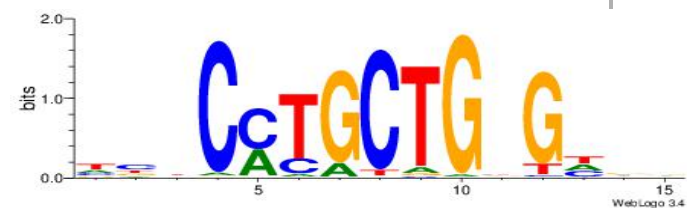
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



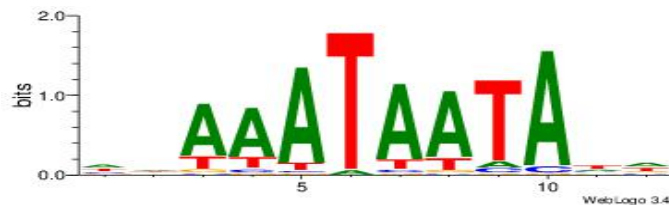
Dataset #: 4

Motif ID: 41

Motif name: wwAAATAATAtw

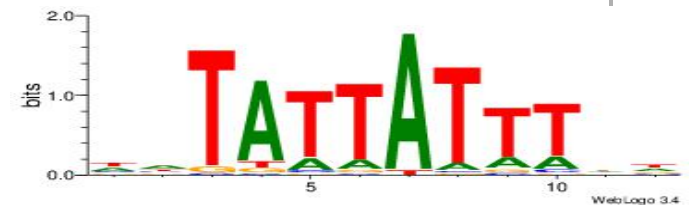
Original motif

Consensus sequence: HDAAATAATADD



Reverse complement motif

Consensus sequence: DDTATTATTTDH



Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID:	UP00244
Motif name:	Tlx2
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:	0.00576686

Alignment:

WWDTTATTAATTHATTV

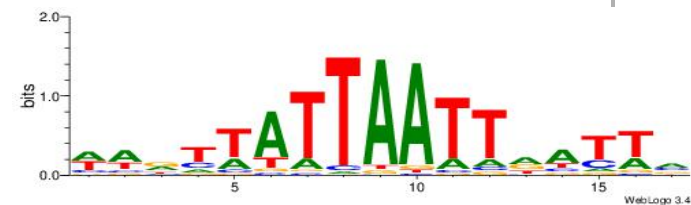
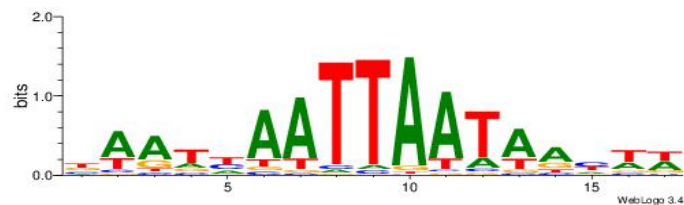
--DDTATTATTTDH---

Original motif

Consensus sequence: BAATHAATTAATAAHHWW

Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV

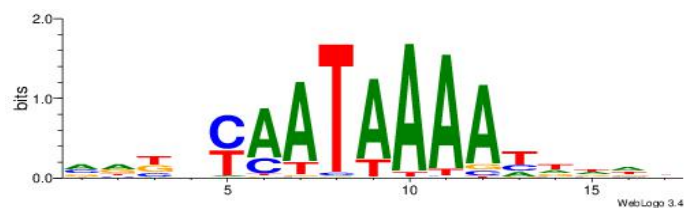


Motif ID: [UP00121](#)
 Motif name: Hoxd10
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.00673636

Alignment:
 HDDDATTTTATTKVRDB
 ---DDTATTATTTDH--

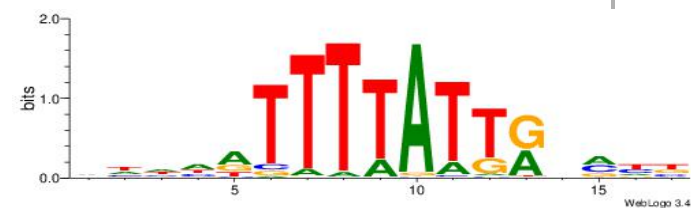
Original motif

Consensus sequence: VDKVYAATAAAATDDDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB



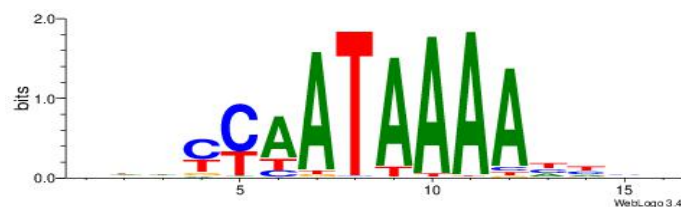
Motif ID: [UP00180](#)

Motif name: Hoxd13
 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: 12
 Similarity score: 0.00685179

Alignment:
 HDHHTTTTATTKKHDD
 --DDTATTATTTDH--

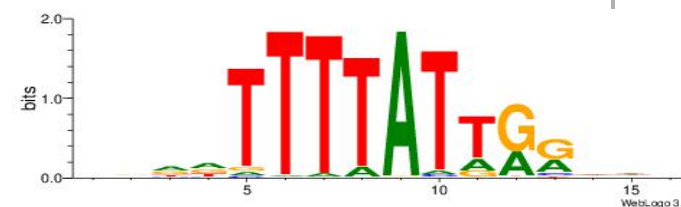
Original motif

Consensus sequence: HDHYAATAAAHHHH



Reverse complement motif

Consensus sequence: HDHHTTTTATTKKHDD



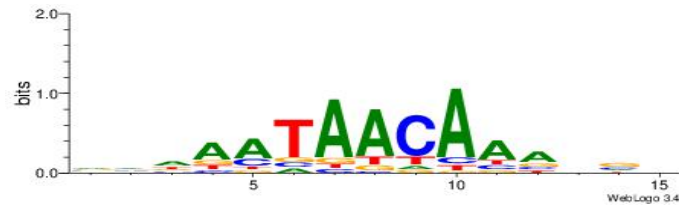
Motif ID: [UP00073](#)
 Motif name: Foxa2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0108327

Alignment:

VVDAATAACAAAVVB
HDAAATAATADD---

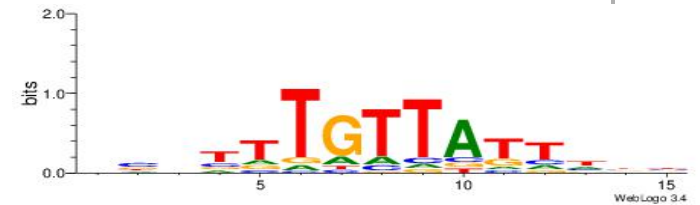
Original motif

Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif

Consensus sequence: BVVTTTGTATTDBB



Motif ID:	UP00134
Motif name:	Hoxb13
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:	12
Similarity score:	0.0121723

Alignment:

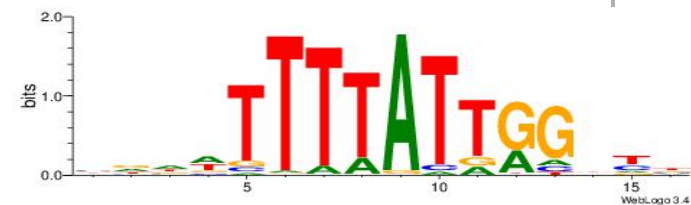
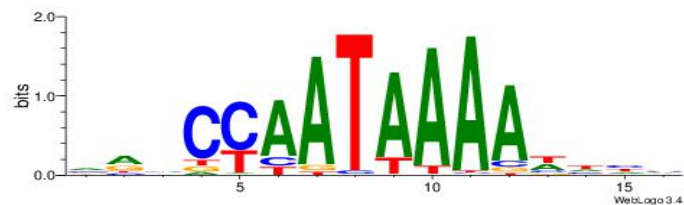
VDHWTTTTATTGGDKB
--DDTATTATTTDH--

Original motif

Consensus sequence: VRHCCAATAAAWHHV

Reverse complement motif

Consensus sequence: VDHWT TTTTATTGGDKB

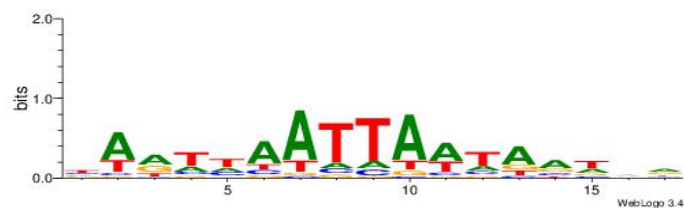


Motif ID: [UP00255](#)
 Motif name: Dbx1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0133808

Alignment:
 HARTHAATTAWTAVDHD
 ---HDAAATAATADD--

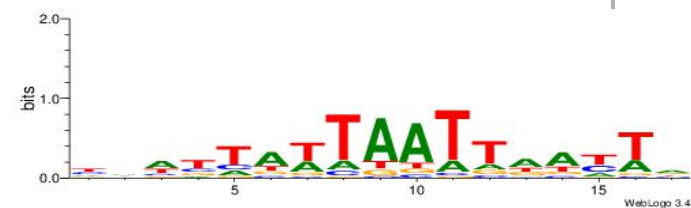
Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



Motif ID: [UP00034](#)

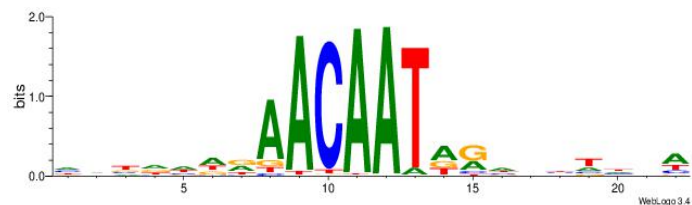
Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 12
 Similarity score: 0.0144702

Alignment:

HHBDHDDAACAATDRHHHHHBW
 ----HDAAATAATADD-----

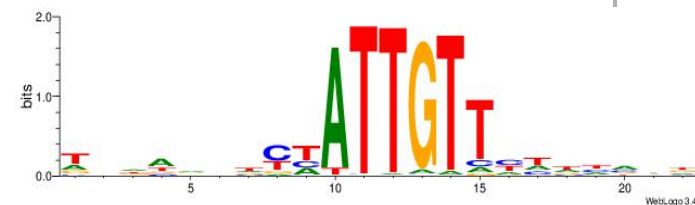
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



Motif ID: [UP00051](#)
 Motif name: Sox8_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: 12

Similarity score: 0.0145614

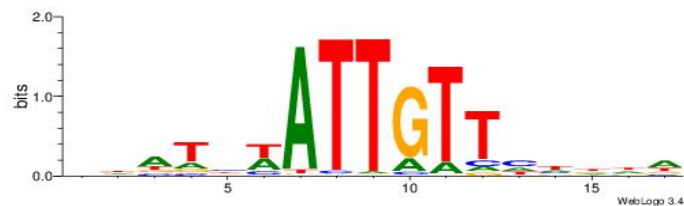
Alignment:

DDATBWATTGTTTHHDDD

---DDTATTATTTDH--

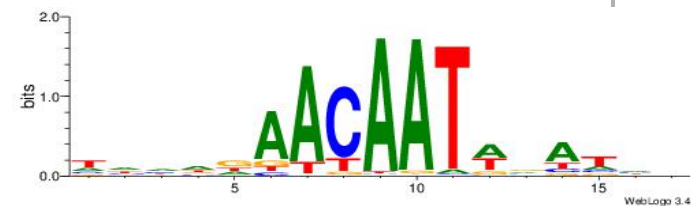
Original motif

Consensus sequence: DDATBWATTGTTTHHDDD



Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



Motif ID:

[UP00024](#)

Motif name:

Glis2_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:

12

Similarity score:

0.0148858

Alignment:

HDTATTAHTAAAVV

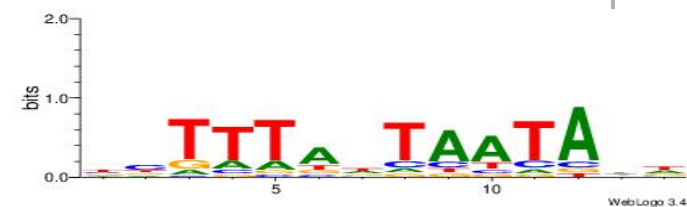
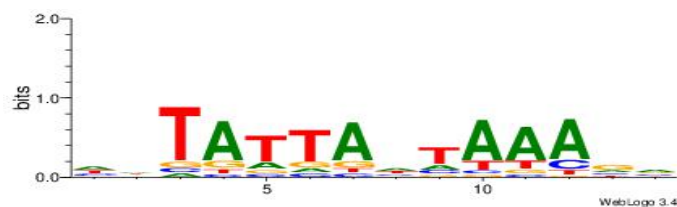
--HDAAATAATADD

Original motif

Consensus sequence: HDTATTAHTAAAVV

Reverse complement motif

Consensus sequence: BVTTTAHTAATADH

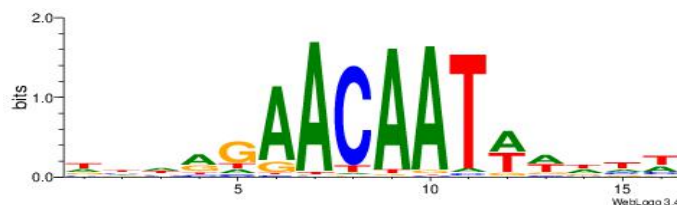


Motif ID:	UP000096
Motif name:	Sox13_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.014968

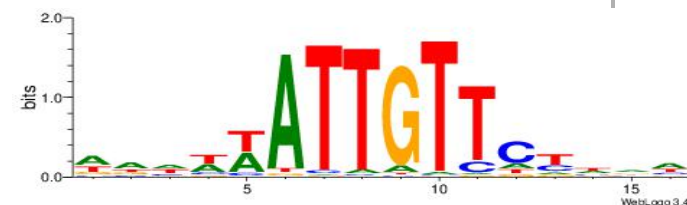
Alignment:

```
DHDRGAACAATWWDHW
--HDAAATAATADD--
```

Original motif
Consensus sequence: DHDRGAACAATWWDHW



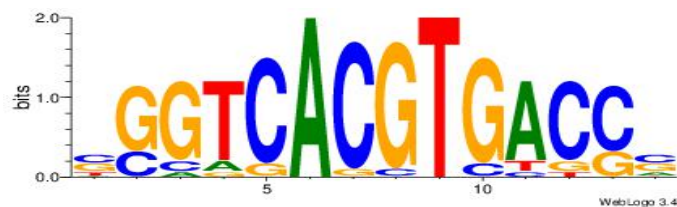
Reverse complement motif
Consensus sequence: WHDWWATTGTCKDHD



Dataset #: 4 Motif ID: 42 Motif name: sSGTCACGTGACSSs

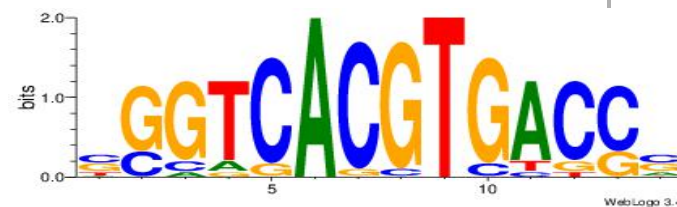
Original motif

Consensus sequence: SGGTCACGTGACCS



Reverse complement motif

Consensus sequence: SGGTCACGTGACCS



Best Matches for Motif ID 42 (Highest to Lowest)

Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0

Alignment:

RDHDBVDTACGTGASBHVHDH

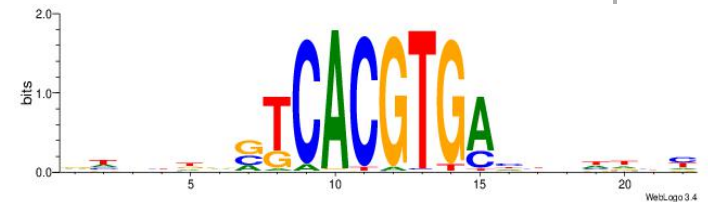
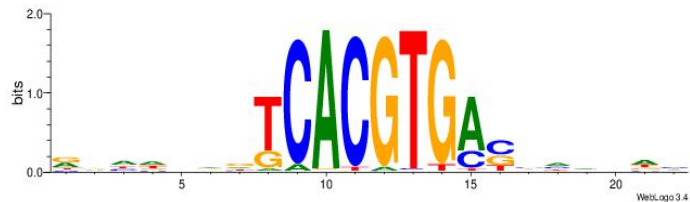
----SGGTCACGTGACCS----

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

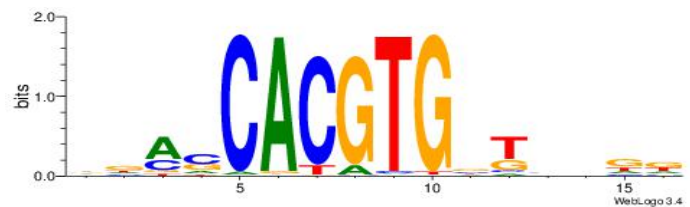
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



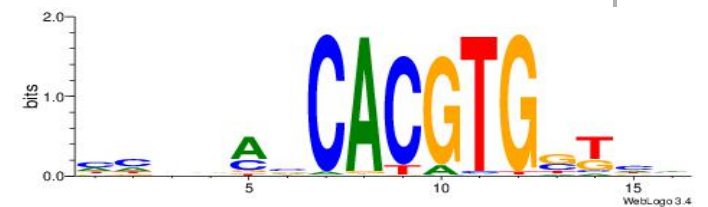
Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0226905

Alignment:
 DDASCACGTGBTBVDD
 --SGGTCACGTGACCS

Original motif
 Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif
 Consensus sequence: HHVBABCACGTGSTHD



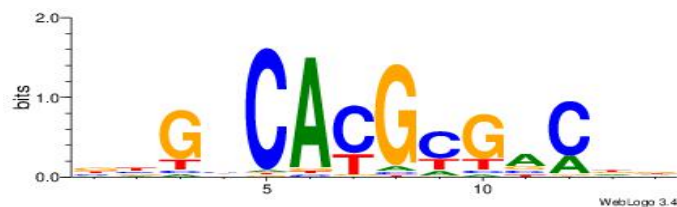
Motif ID: [UP00060](#)
 Motif name: Max_secondary

Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0240371

Alignment:
 BBGHCACGCGACDD
 SGGTCACGTGACCS

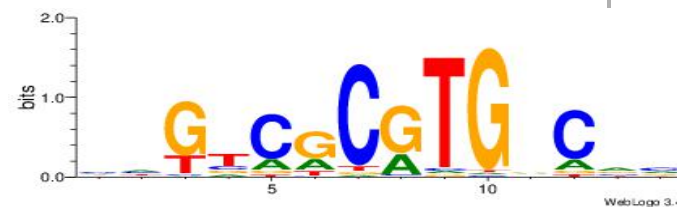
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Motif ID: [UP00103](#)
 Motif name: Jundm2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0253986

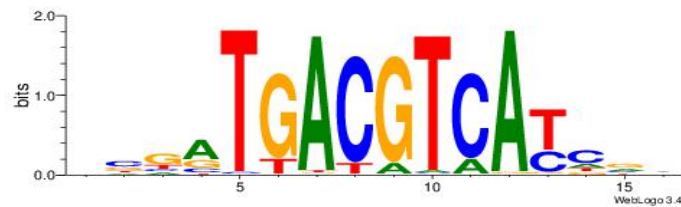
Alignment:

BBGATGACGTCAYCVH

–SGGTCACGTGACCS–

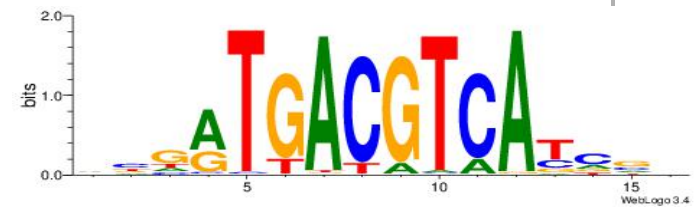
Original motif

Consensus sequence: BBGATGACGTCAYCVH



Reverse complement motif

Consensus sequence: HVGMTGACGTCATCBB



Motif ID:

[UP00020](#)

Motif name:

Atf1_primary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Original Motif

Direction:

Forward

Position number:

2

Number of overlap:

14

Similarity score:

0.0259163

Alignment:

DBDRTGACGTCAYHRD

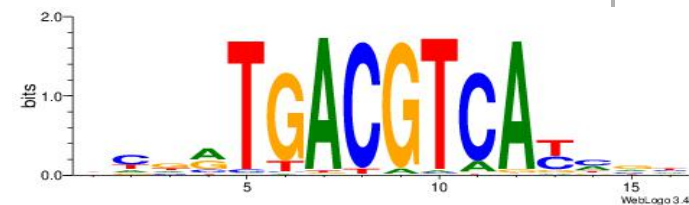
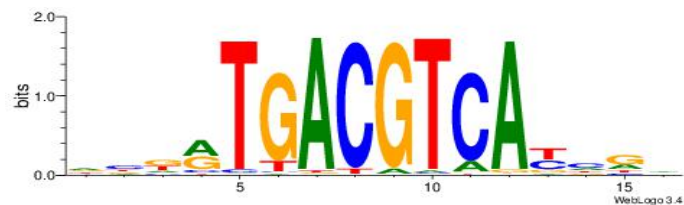
–SGGTCACGTGACCS–

Original motif

Consensus sequence: DBDRTGACGTCAYHRD

Reverse complement motif

Consensus sequence: DMDMTGACGTCAKHBD

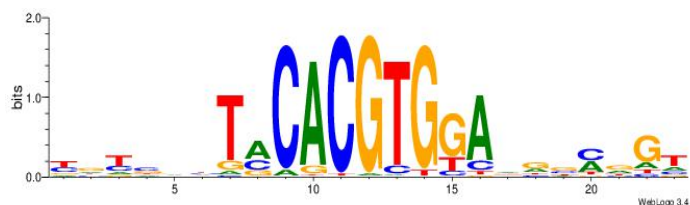


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0403911

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----SGGTCACGTGACCS-----

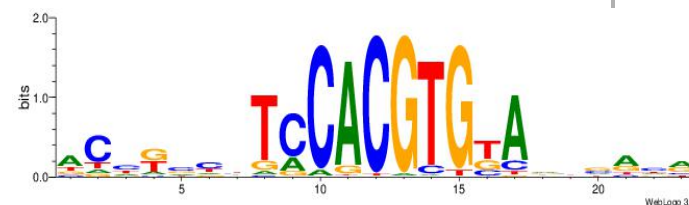
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00036](#)

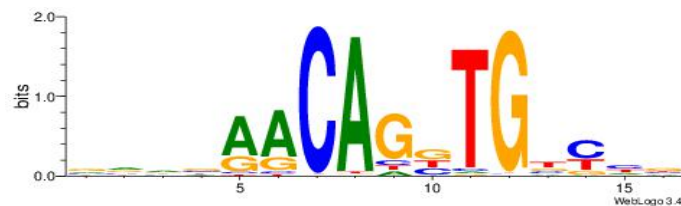
Motif name: Myf6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0440464

Alignment:

VVDBAACAGBTGBYHB
 --SGGTCACGTGACCS

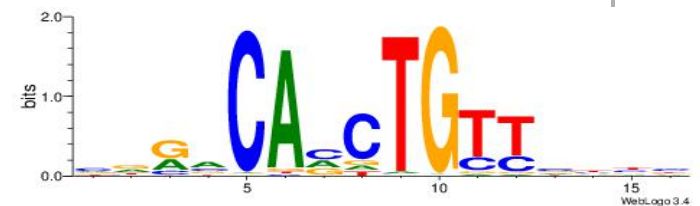
Original motif

Consensus sequence: VVDBAACAGBTGBYHB



Reverse complement motif

Consensus sequence: BDKVCABCTGTTBDBV



Motif ID: [UP00046](#)
 Motif name: Tcfe2a_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14

Similarity score: 0.0471124

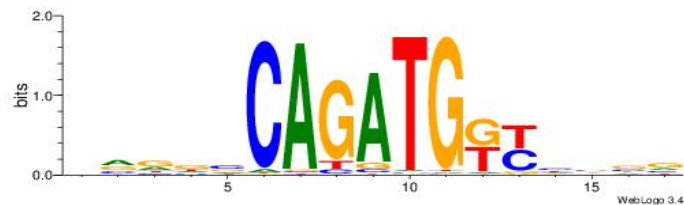
Alignment:

VBBDMYCATCTGVHHBH

--SGGTCACGTGACCS--

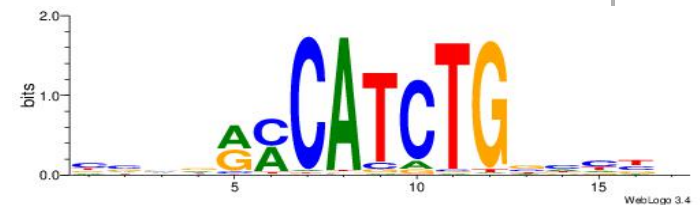
Original motif

Consensus sequence: HVDDVCAGATGKYHBBV



Reverse complement motif

Consensus sequence: VBBDMYCATCTGVHHBH



Motif ID: [UP00165](#)

Motif name: Titf1

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 2

Number of overlap: 14

Similarity score: 0.0471926

Alignment:

BVABCCACTTGAMHTT

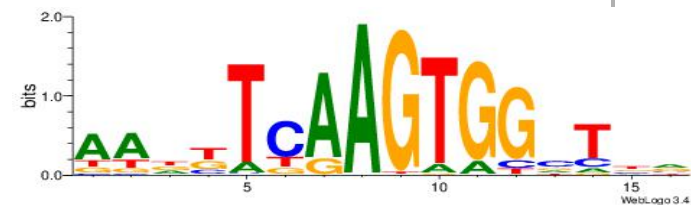
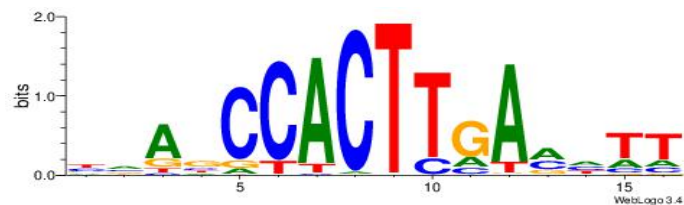
--SGGTCACGTGACCS--

Original motif

Consensus sequence: BVABCCACTTGAMHTT

Reverse complement motif

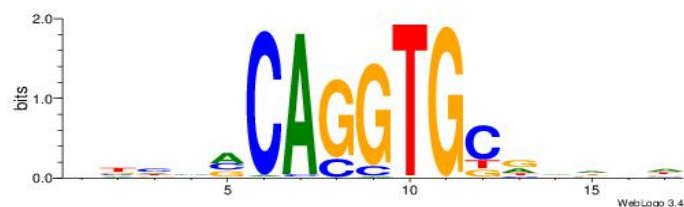
Consensus sequence: AAHYTCAAGTGGBTBV



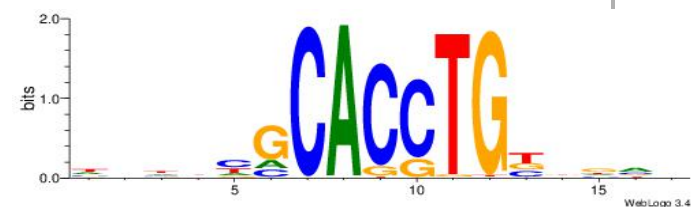
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0506329

Alignment:
 DHDBHGCACCTGBDDVB
 --SGGTCACGTGACCS--

Original motif
 Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
 Consensus sequence: DHDBHGCACCTGBDDVB



Dataset #: 4 **Motif ID: 43** **Motif name: wsTACwGTAsw**

Original motif

Consensus sequence: HVTACWGATABD



Reverse complement motif

Consensus sequence: DBTACWGTA VH



Best Matches for Motif ID 43 (Highest to Lowest)

Motif ID:	UP00052
Motif name:	Osr2_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0

Alignment:

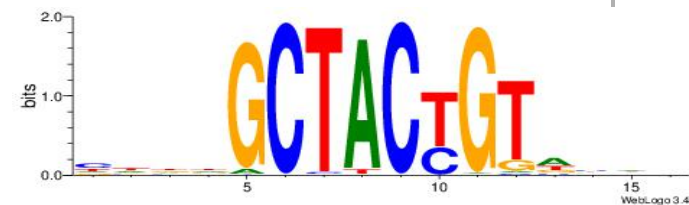
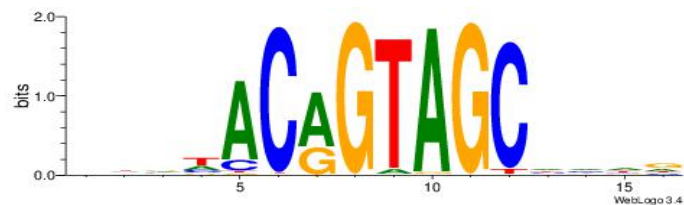
```
HHHHGCTACKGTHVHH
----DBTACWGTA VH--
```

Original motif

Consensus sequence: HHVHACRGTAGCHHHD

Reverse complement motif

Consensus sequence: HHHHGCTACKGTHVHH

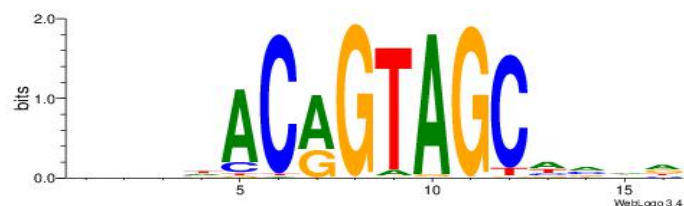


Motif ID: [UP00027](#)
 Motif name: Osr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00480574

Alignment:
 DHBHGCTACKGTHDHH
 ----DBTACWGTAVH-

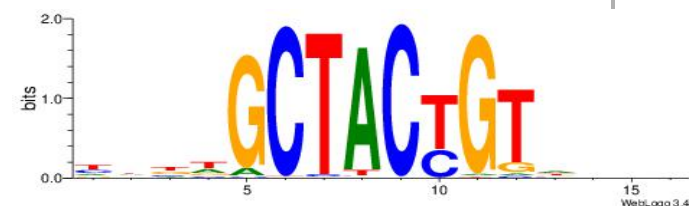
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



Motif ID: [UP00031](#)

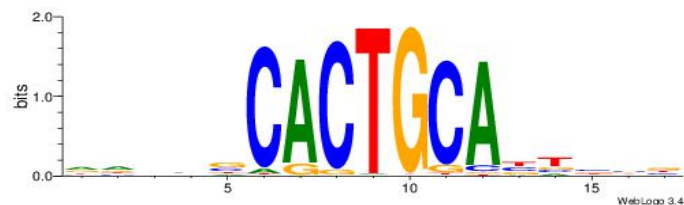
Motif name: Zbtb3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0165381

Alignment:

BBBAVTGCAGTGBBVDD
 ---HVTACWG TABD---

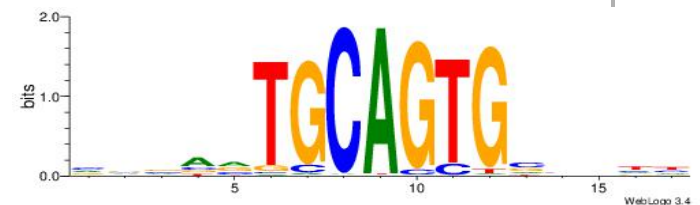
Original motif

Consensus sequence: DDBBBCACTGCABTBBB



Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD



Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 7
 Number of overlap: 11

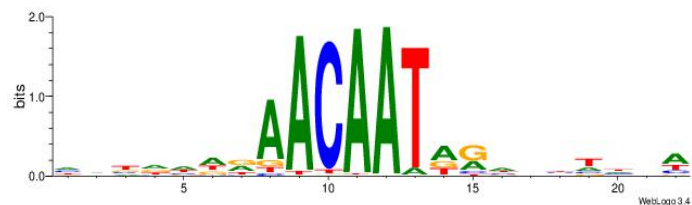
Similarity score: 0.0248017

Alignment:

HHBDHDDAACAAATDRHHHHHBW
-----DBTACWGTAVH-----

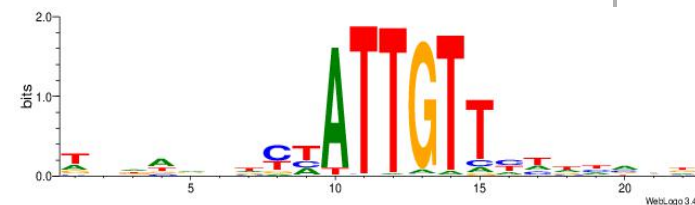
Original motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHVDVHH



Motif ID: [UP00023](#)
Motif name: Sox30_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: 0.0294174

Alignment:

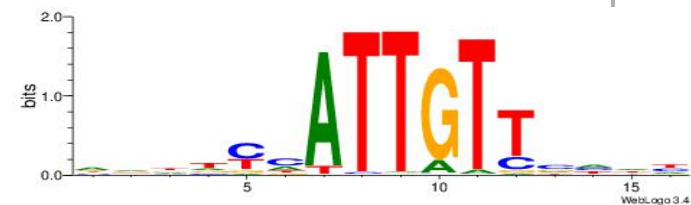
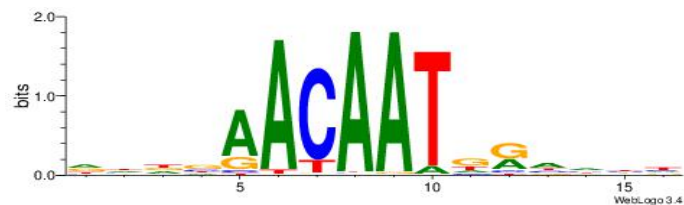
HHHHMHATTGTTBDHD
---HVTACWGATABD---

Original motif

Consensus sequence: DHDBAACAAATDRHHHH

Reverse complement motif

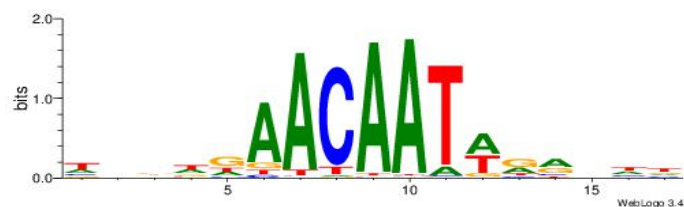
Consensus sequence: HHHHMHATTGTTBDHD



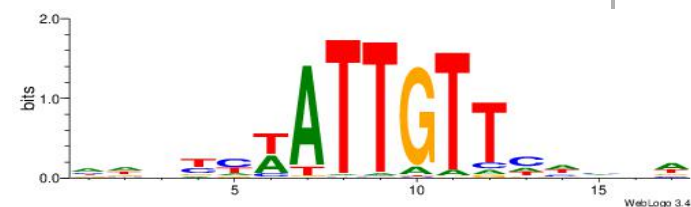
Motif ID: [UP00075](#)
 Motif name: Sox15_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0301544

Alignment:
 DHVKMWATTGTTHDHDH
 ---HVTACWGATABD---

Original motif
 Consensus sequence: HDDDDAACAAATWRRBHD



Reverse complement motif
 Consensus sequence: DHVKMWATTGTTHDHDH



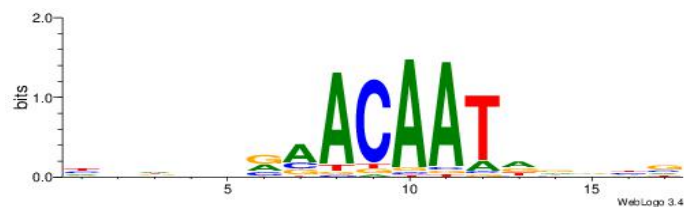
Motif ID: [UP00016](#)
 Motif name: Sry_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.0310991

Alignment:

VHVHDATTGTTMHDDDH
 --DBTACWGTAVH-----

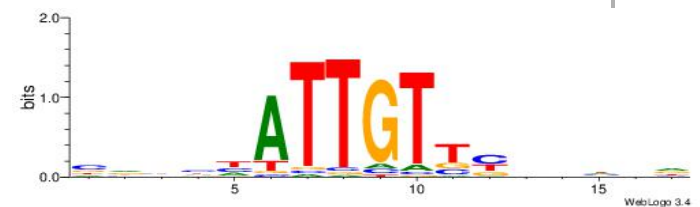
Original motif

Consensus sequence: HHDHRAACAATDDVHV



Reverse complement motif

Consensus sequence: VHVHDATTGTTMHDDDH

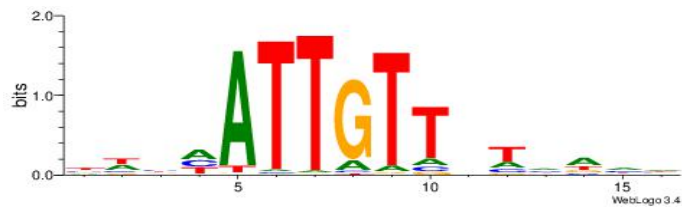


Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2

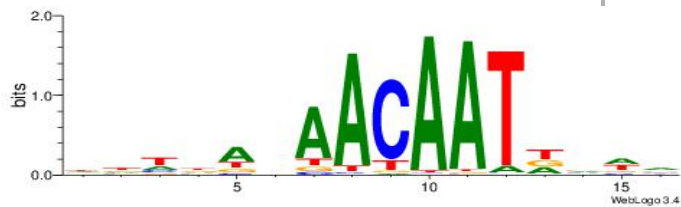
Number of overlap: 11
Similarity score: 0.031364

Alignment:
BWBHATTGTTBTHDHH
-DBTACWGTAVH----

Original motif
Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif
Consensus sequence: HHDHABAACAATHBWV



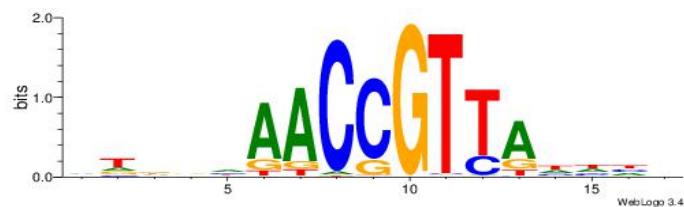
Motif ID: [UP00092](#)
Motif name: Myb_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0314236

Alignment:
HDDDHAACCGTTAHHHD
---DBTACWGTAVH---

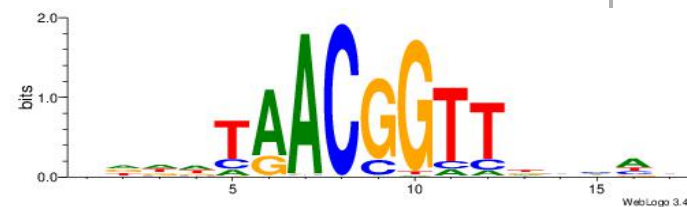
Original motif

Reverse complement motif

Consensus sequence: HDDDHAACCGTTAHHHD



Consensus sequence: DHHHTAACGGTTHHHDH



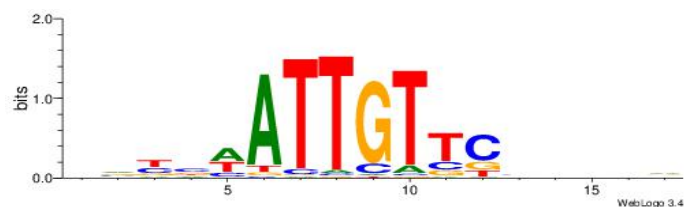
Motif ID: [UP00071](#)
Motif name: Sox21_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0319794

Alignment:

VVYBWATTGTTTCVBHDV
--HVTACWGTTABD----

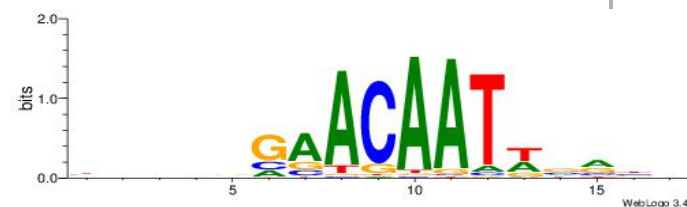
Original motif

Consensus sequence: VVYBWATTGTTTCVBHDV



Reverse complement motif

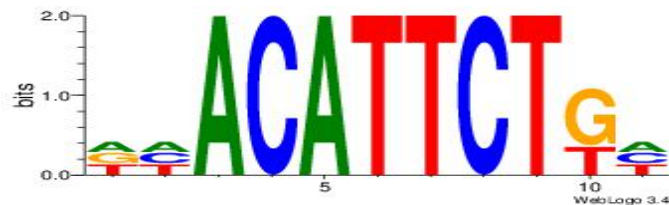
Consensus sequence: BDDBVGAACAATWMBBV



Dataset #: 4 **Motif ID: 44** **Motif name: dhACATTCTkh**

Original motif

Consensus sequence: DHACATTCTGH



Reverse complement motif

Consensus sequence: HCAGAATGTHD



Best Matches for Motif ID 44 (Highest to Lowest)

Motif ID:	UP00038
Motif name:	Spdef_secondary
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:	11
Similarity score:	0.00581553

Alignment:

VDWYTAGGATGTHVDH

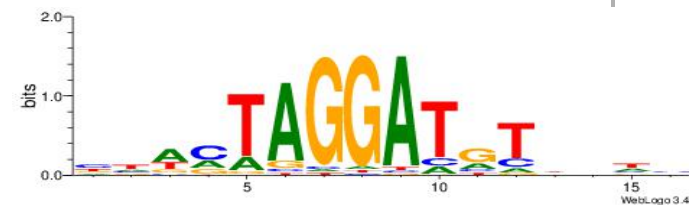
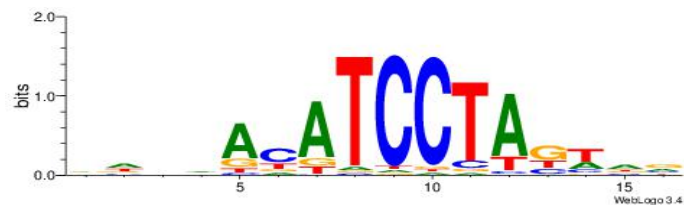
---HCAGAATGTHD---

Original motif

Consensus sequence: DDBHACATCCTAKWDV

Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH

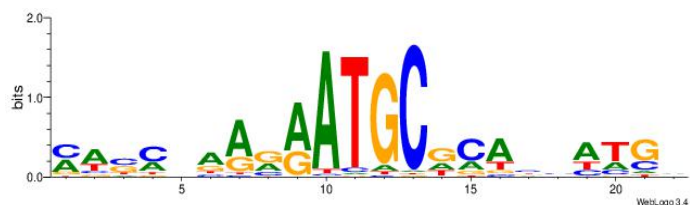


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.00582895

Alignment:
 DCATDBTGHGCATKMTTBRSWR
 -----DHACATTCTGH-----

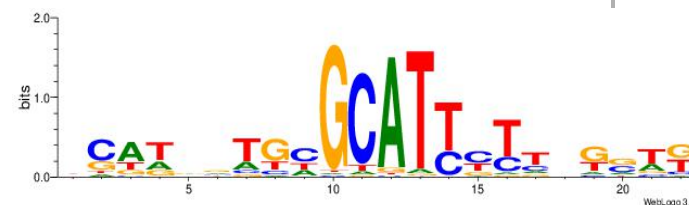
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID: [UP00023](#)

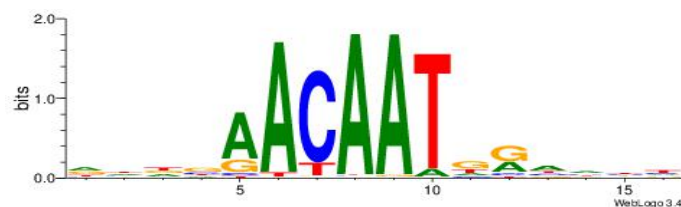
Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00613057

Alignment:

HHHMHATTGTTBDHD
 --DHACATTCTGH---

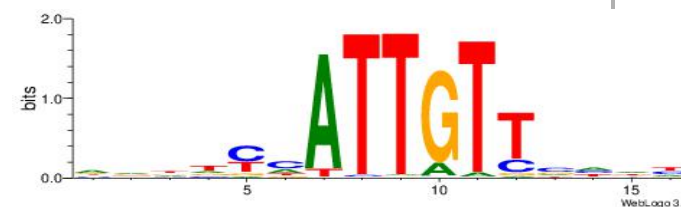
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHMHATTGTTBDHD

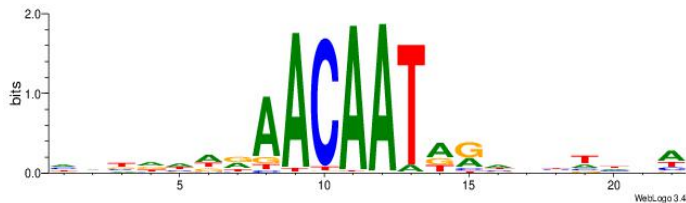


Motif ID: [UP00034](#)
 Motif name: Sox7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11

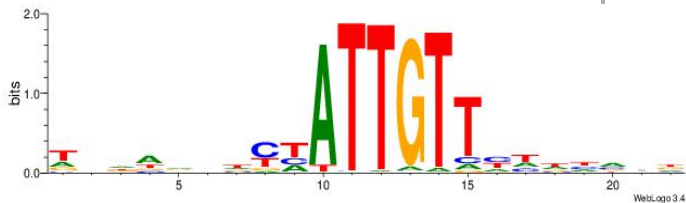
Similarity score: 0.0119275

Alignment:
WBHHHHHMDATTGTTHDHDVHH
-----DHACATTCTGH-----

Original motif
Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif
Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

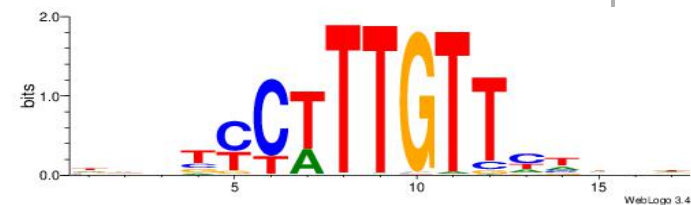
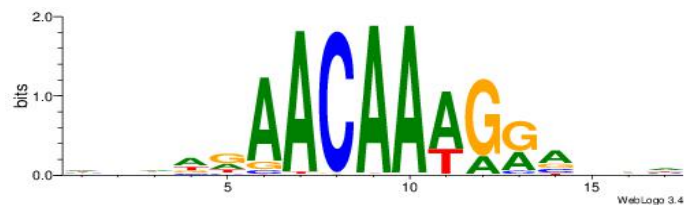


Motif ID: [UP00030](#)
Motif name: Sox11_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0122803

Alignment:
HHBTMCTTTGTTMDDVH
--DHACATTCTGH----

Original motif
Consensus sequence: HBDDRAACAAAGRABHH

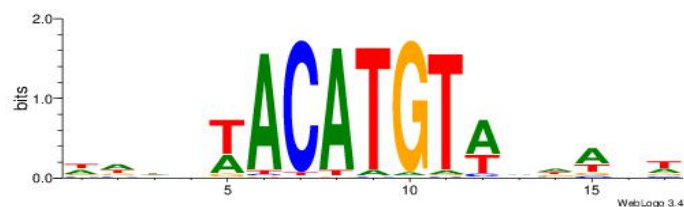
Reverse complement motif
Consensus sequence: HHBTMCTTTGTTMDDVH



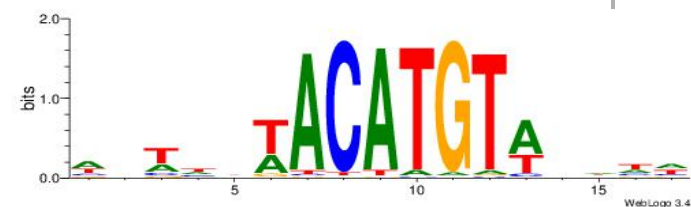
Motif ID: [UP00250](#)
 Motif name: Irx5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0132772

Alignment:
 WVT~~---~~DHWACATGTWHDDD
 -----DHACATTCTGH--

Original motif
 Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif
 Consensus sequence: WVT~~---~~DHWACATGTWHDDD



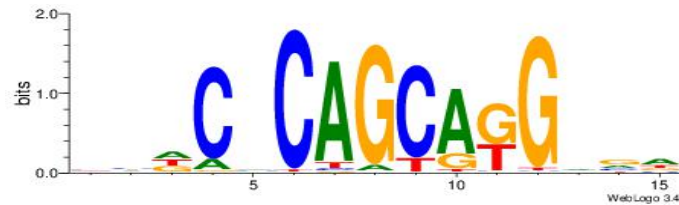
Motif ID: [UP00057](#)

Motif name: Zic2_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0141401

Alignment:
DVBCYTGCTGBGDDD
-----HCAGAATGTHD

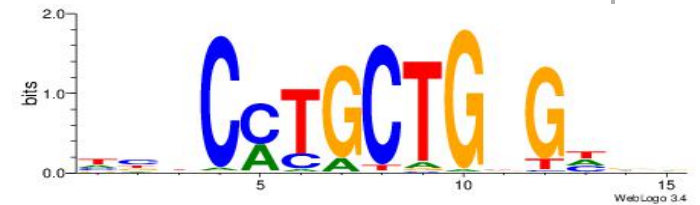
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



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: 3
Number of overlap: 11
Similarity score: 0.0143902

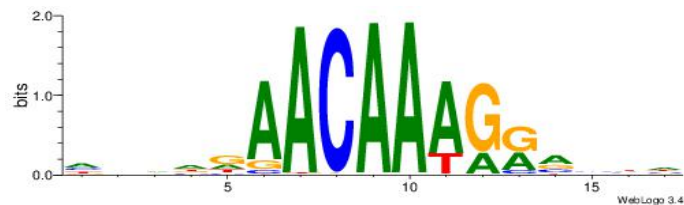
Alignment:

HHBBMCTTTGTTHDDBH

--DHACATTCTGH----

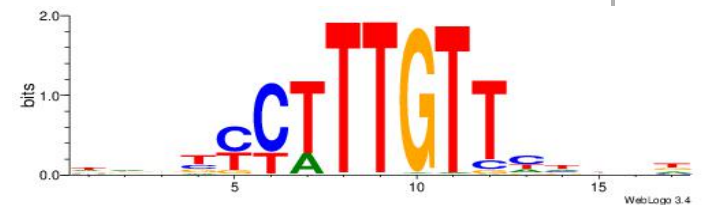
Original motif

Consensus sequence: HBDDDAACAAAGRVBHH



Reverse complement motif

Consensus sequence: HHBBMCTTTGTTHDDBH



Motif ID:	UP00004
Motif name:	Sox14_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0151959

Alignment:

BKBASACAATRGHBB

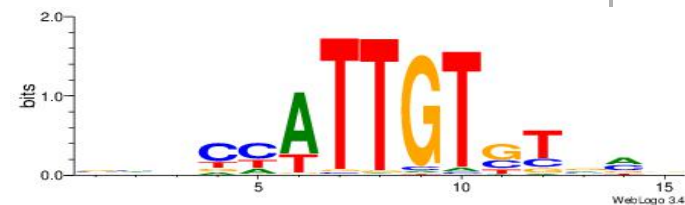
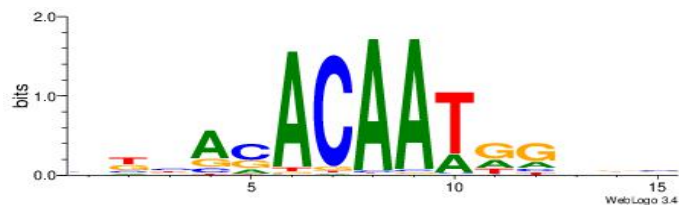
---HCAGAATGTHD-

Original motif

Consensus sequence: BKBASACAATRGHBB

Reverse complement motif

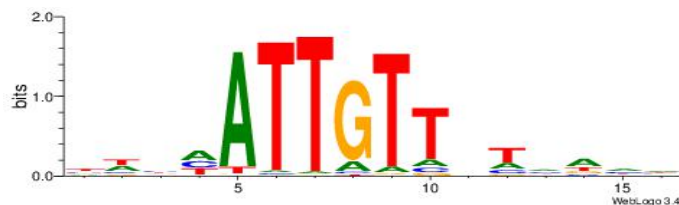
Consensus sequence: BBDCMATTGTSTBRB



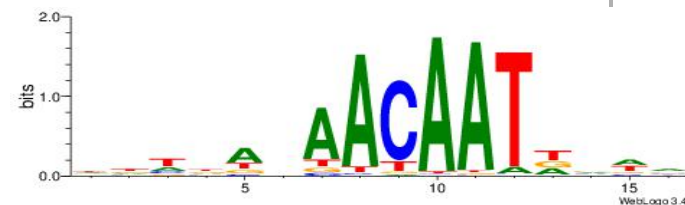
Motif ID: [UP00064](#)
 Motif name: Sox18_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0.015273

Alignment:
 BWBHATTGTTBTHDHH
 DHACATTCTGH-----

Original motif
 Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif
 Consensus sequence: HHDHABAACAATHBWV



Dataset #: 4 Motif ID: 45 Motif name: wbgTAAATAww

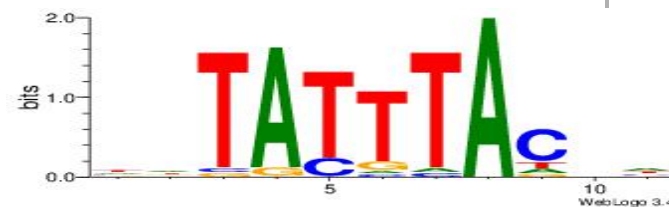
Original motif

Consensus sequence: DBGTAATAHD



Reverse complement motif

Consensus sequence: DHTATTTACBD



Best Matches for Motif ID 45 (Highest to Lowest)

Motif ID:	UP00242
Motif name:	Hoxc8
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:	11
Similarity score:	0

Alignment:

AHDHTAATTACHHHHV

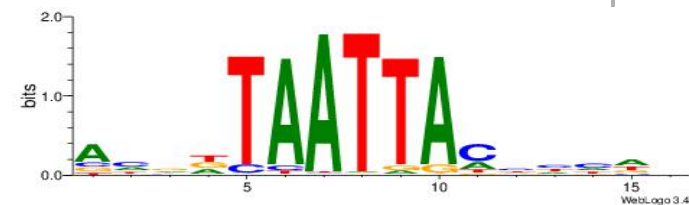
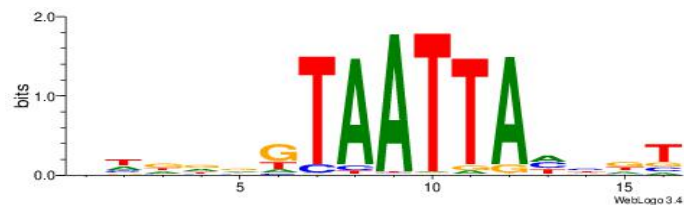
--DHTATTTACBD---

Original motif

Consensus sequence: BHDDDGTAATTAHHDT

Reverse complement motif

Consensus sequence: AHDHTAATTACHHHHV

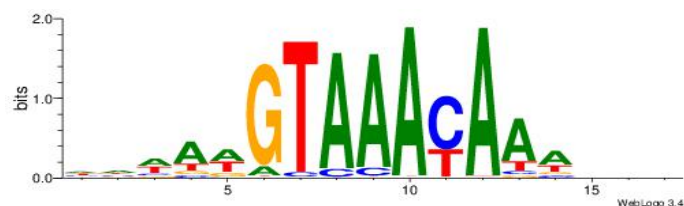


Motif ID: [UP00073](#)
 Motif name: Foxa2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00453517

Alignment:
 HHWAWGTAAAYAAVDB
 ---DBGTAATAHD---

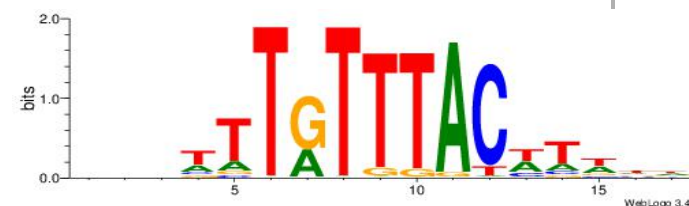
Original motif

Consensus sequence: HHWAWGTAAAYAAVDB



Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH



Motif ID: [UP00039](#)

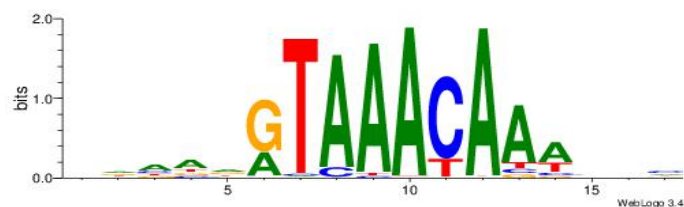
Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00490457

Alignment:

HDHADGTAAACAAAVVH
 ---DBGTAATAHD---

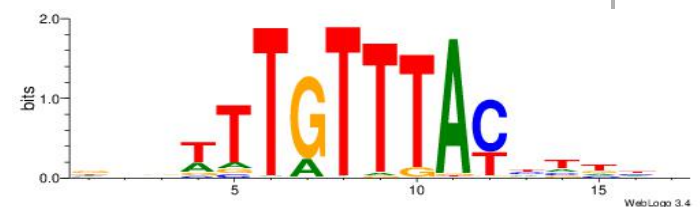
Original motif

Consensus sequence: HDHADGTAAACAAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00041](#)
 Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11

Similarity score: 0.00656547

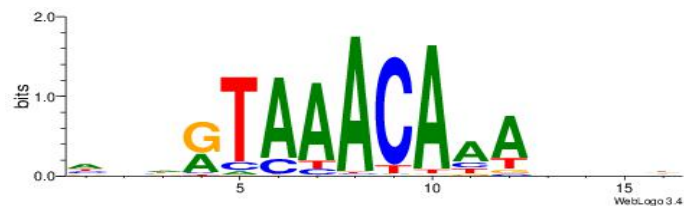
Alignment:

HDHRTAAACAAHDDD

-DBGTAATAHD----

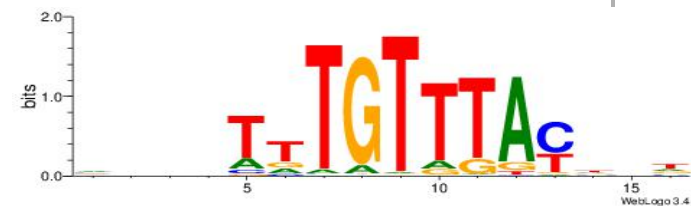
Original motif

Consensus sequence: HDHRTAAACAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDDH



Motif ID: [UP00182](#)

Motif name: Hoxa6

Species: Mus musculus

Matching format of first motif: Original Motif

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 4

Number of overlap: 11

Similarity score: 0.0086354

Alignment:

DTHHGGTAATTAYCYT

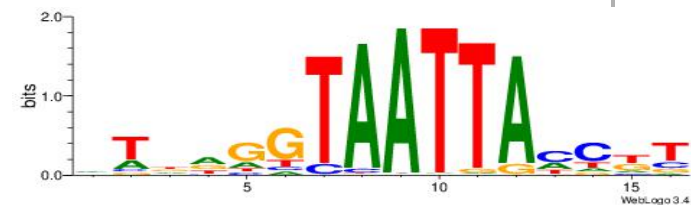
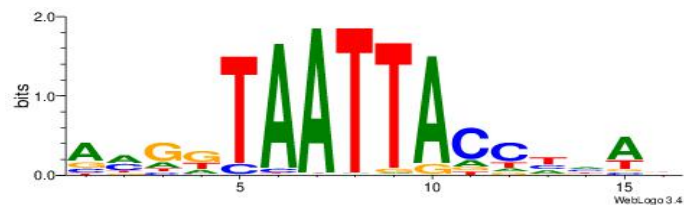
---DBGTAATAHD--

Original motif

Consensus sequence: AMGKTAATTACCHHAD

Reverse complement motif

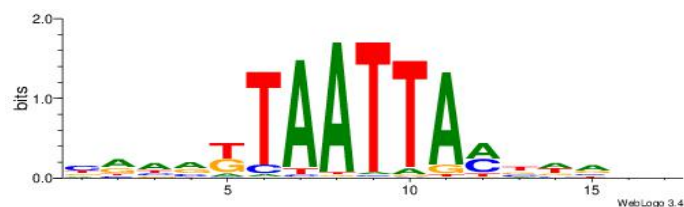
Consensus sequence: DTHHGGTAATTAYCYT



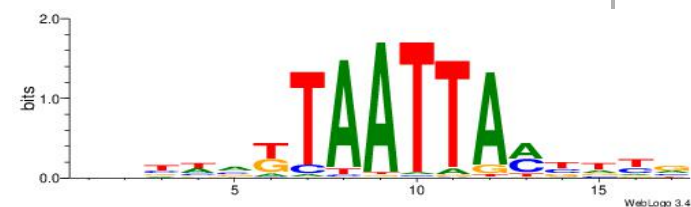
Motif ID: [UP00260](#)
 Motif name: Hoxc6
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0092156

Alignment:
 BRHVKTAATTAMBDVVD
 ---DHTATTTACBD---

Original motif
 Consensus sequence: BRHVKTAATTAMBDVVD



Reverse complement motif
 Consensus sequence: DBBDVYTAATTARBHKB



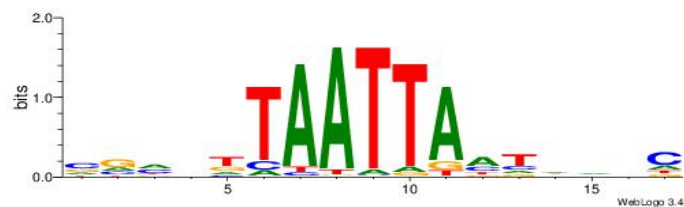
Motif ID: [UP00164](#)
 Motif name: Hoxa7_2668.2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00942246

Alignment:

VVHDDTAATTAHTDDBC
 ---DHTATTTACBD---

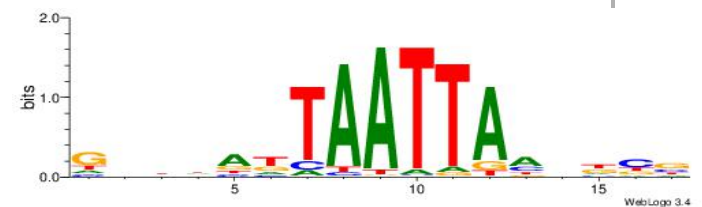
Original motif

Consensus sequence: VVHDDTAATTAHTDDBC



Reverse complement motif

Consensus sequence: GBDDAHTAATTADHHVV



Motif ID: [UP00259](#)
 Motif name: Hoxb6
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2

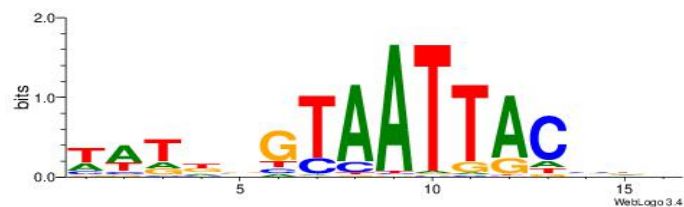
Number of overlap: 11
Similarity score: 0.00949005

Alignment:

VDVGTAATTACBDAWW
-DBGTAATAHD----

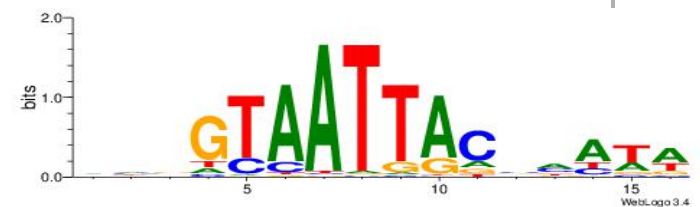
Original motif

Consensus sequence: WWTDBGTAATTACVDB



Reverse complement motif

Consensus sequence: VDVGTAATTACBDAWW



Motif ID: [UP00254](#)
Motif name: Pou2f1
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: 0.00998499

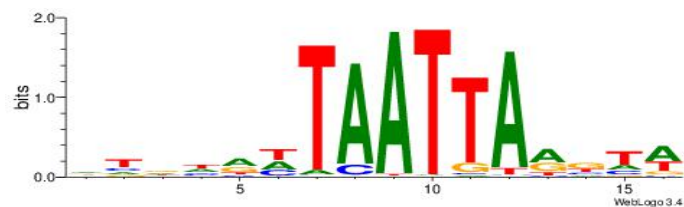
Alignment:

WABKTAATTAKHHHD
-DBGTAATAHD----

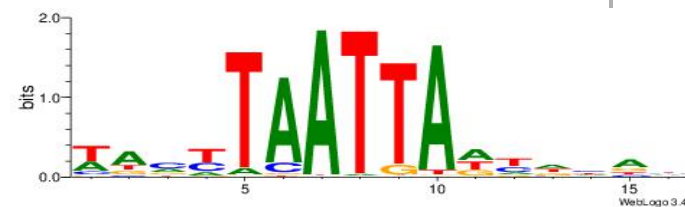
Original motif

Reverse complement motif

Consensus sequence: DHDHRHTAATTARBTW



Consensus sequence: WABKTAATTAHKHHHD



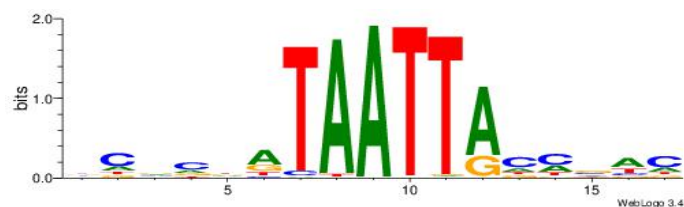
Motif ID: [UP00110](#)
Motif name: Dlx4
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0107458

Alignment:

GHVRGTAATTATDVVG
--DBGTAATAHD----

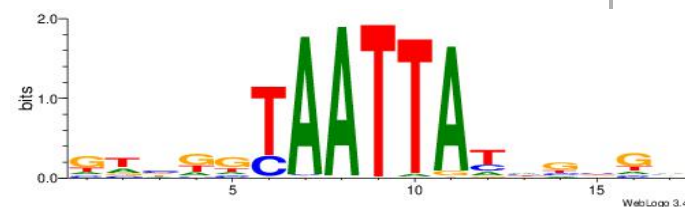
Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

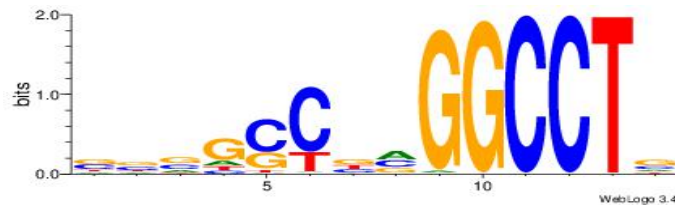
Consensus sequence: GHVRGTAATTATDVVG



Dataset #: 5 **Motif ID: 46** **Motif name: Zfx**

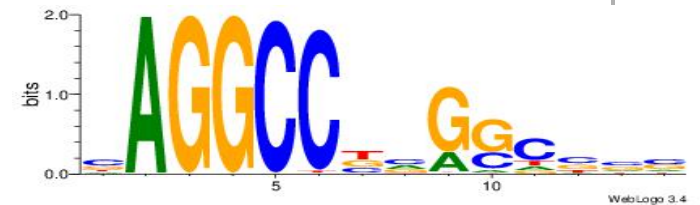
Original motif

Consensus sequence: BBVGCCBVGGCCTV



Reverse complement motif

Consensus sequence: VAGGCCBBGGCVBB



Best Matches for Motif ID 46 (Highest to Lowest)

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

Alignment:

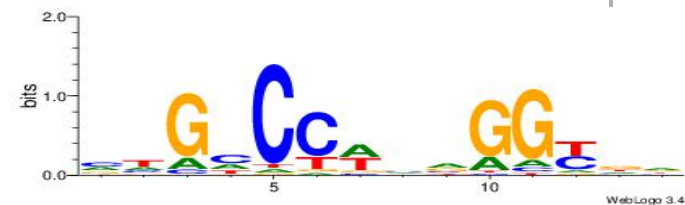
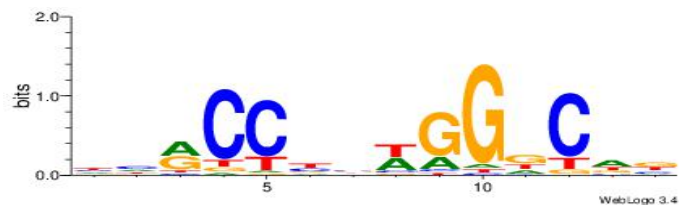
HHRCCBBWGGDCDB
BBVGCCBVGGCCTV

Original motif

Consensus sequence: HHRCCBBWGGDCDB

Reverse complement motif

Consensus sequence: BDGHCCWBVGGKDH



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

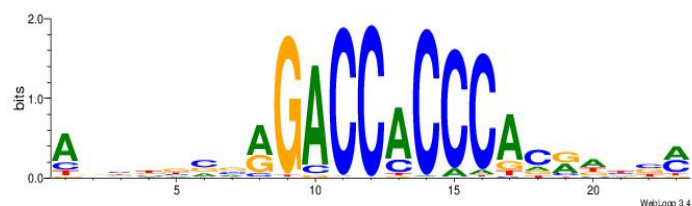
Alignment:

```

ABBBBVVRGACCACCCACRDBBM
BBVGCCBVGGCCTV-----
  
```

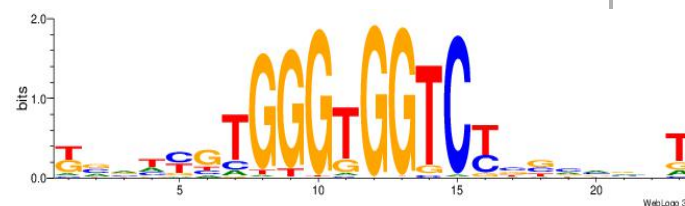
Original motif

Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif

Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Motif ID: [UP00002](#)

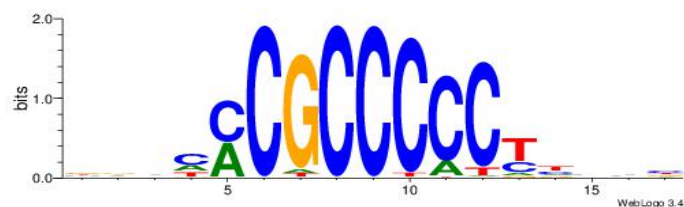
Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 14
 Similarity score: 0.0604694

Alignment:

BDHMC GCCCCTHVBB
 ---VAGGCCBBGGCVBB

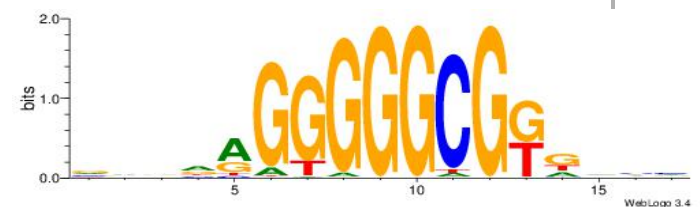
Original motif

Consensus sequence: BDHMC GCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB

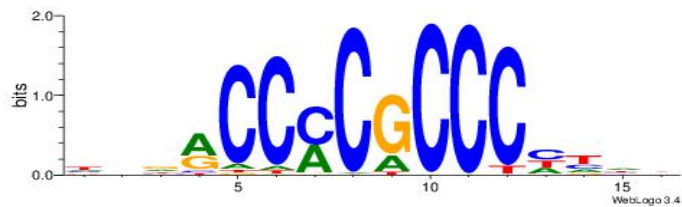


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14

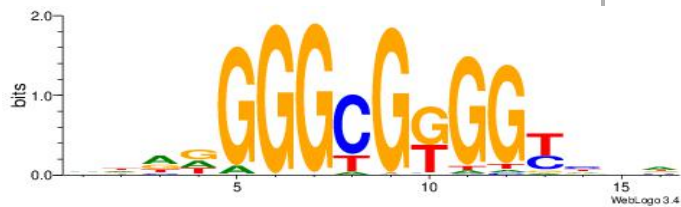
Similarity score: 0.0606067

Alignment:
HBDRCMCGCCCHHD
BBVGCCBVGGCTV--

Original motif
Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif
Consensus sequence: DHHDGGGCGRGGKHBH

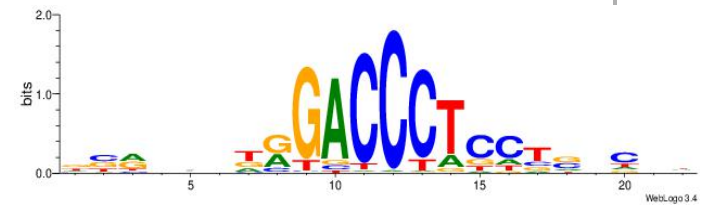
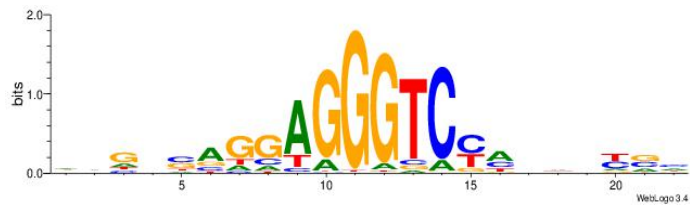


Motif ID: [UP00539](#)
Motif name: Gli2_v015681_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 14
Similarity score: 0.0606878

Alignment:
HVGVSAGGAGGGTCYHHHHYVH
-----VAGGCCBBGGCVBB

Original motif
Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH

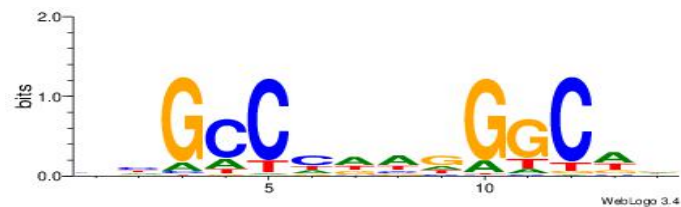
Reverse complement motif
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH



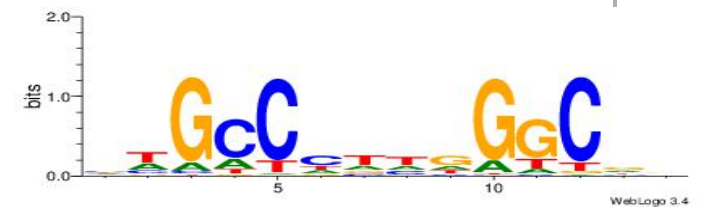
Motif ID: [UP00087](#)
 Motif name: Tcfap2c_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0608063

Alignment:
 HWGCCCTDGGGCDB
 VAGGCCBBGGCVBB

Original motif
 Consensus sequence: BHGCCCDAGGGCWD



Reverse complement motif
 Consensus sequence: HWGCCCTDGGGCDB



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

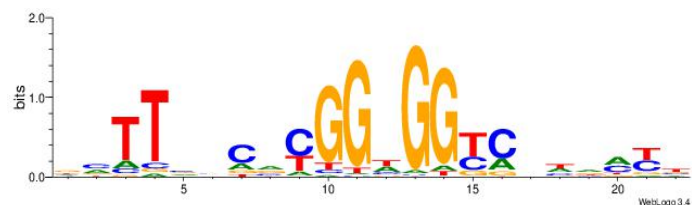
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 14
 Similarity score: 0.0615001

Alignment:

DVTTVVCVYGGHGGYCHHDMYB
 ----BBVGCCBVGGCCTV----

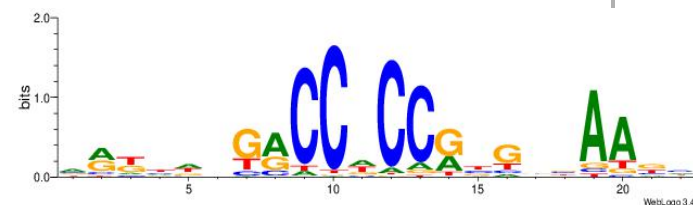
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCCKBGVVAHVH



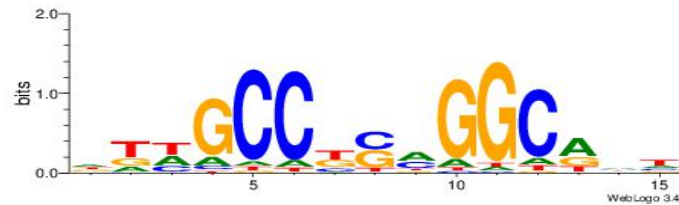
Motif ID: [UP00010](#)
 Motif name: Tcfap2b_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 2
 Number of overlap: 14
 Similarity score: 0.0624288

Alignment:

HHKGCCYSRGGCWAD
-BBVGCCBVGGCCTV

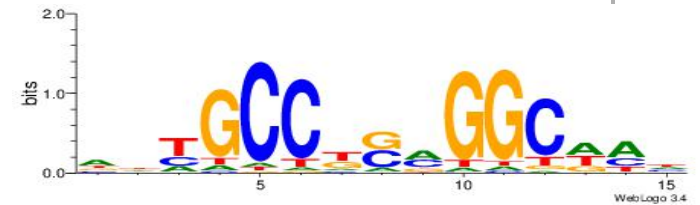
Original motif

Consensus sequence: DTWGCKSMGGCRHH



Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD



Motif ID:	UP00082
Motif name:	Zfp187_secondary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0627664

Alignment:

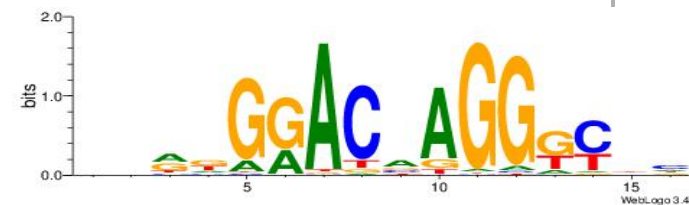
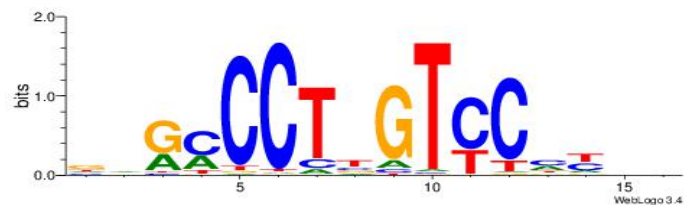
DDGMCCTBGTCCHYHV
VAGGCCBBGGCVBB--

Original motif

Consensus sequence: DDGMCCTBGTCCHYHV

Reverse complement motif

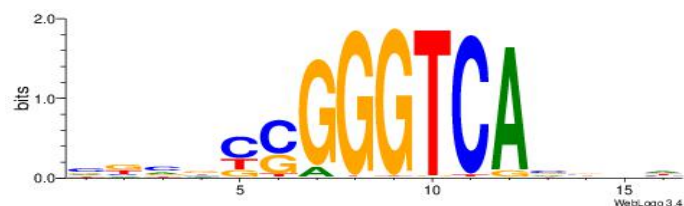
Consensus sequence: VHMDGGACVAGGRCDH



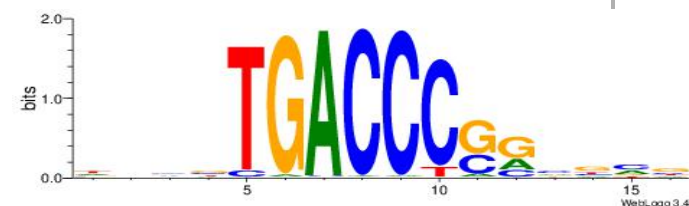
Motif ID: [UP00009](#)
 Motif name: Nr2f2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0636529

Alignment:
 HVBVTGACCCSGBVBV
 --VAGGCCBBGGCVBB

Original motif
 Consensus sequence: VBVBCTGGGTCAVBBH



Reverse complement motif
 Consensus sequence: HVBVTGACCCSGBVBV



Dataset #: 5 **Motif ID: 47** **Motif name: Egr1**

Original motif

Consensus sequence: HGCGTGGGCGK



Reverse complement motif

Consensus sequence: YGCCCCACGCH



Best Matches for Motif ID 47 (Highest to Lowest)

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

Alignment:

VVVDHHTGCGYGGGCGDHHHTB

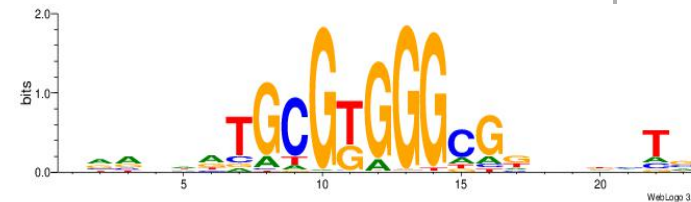
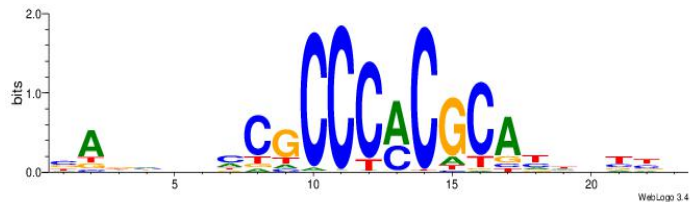
-----HGCGTGGGCGK-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHHTB

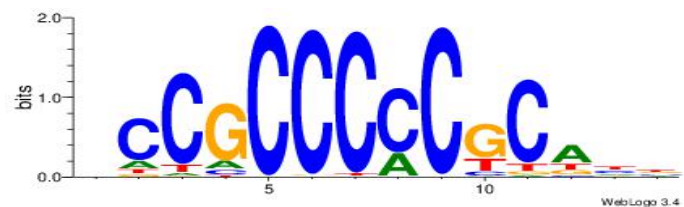


Motif ID: [UP00007](#)
 Motif name: Egr1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00727533

Alignment:
 HCCGCCCCCGCAHB
 -YCGCCCACGCH--

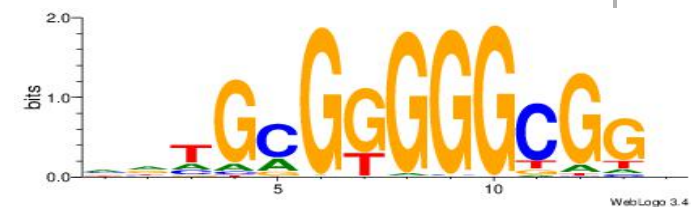
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: [UP00538](#)

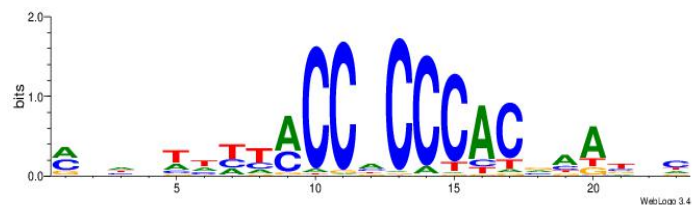
Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0262579

Alignment:

MHHHWHYTMCCCHCCCACVAABVH
 -----YCGCCCACGCH---

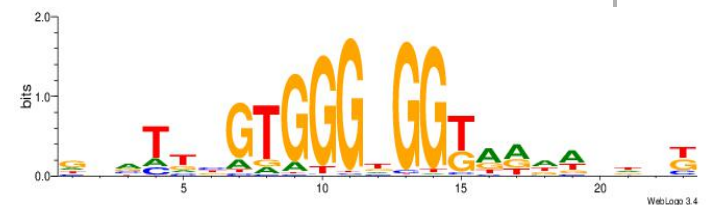
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY

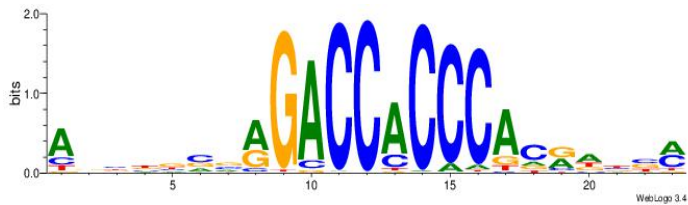


Motif ID: [UP00540](#)
 Motif name: Gli3_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 11
 Number of overlap: 11

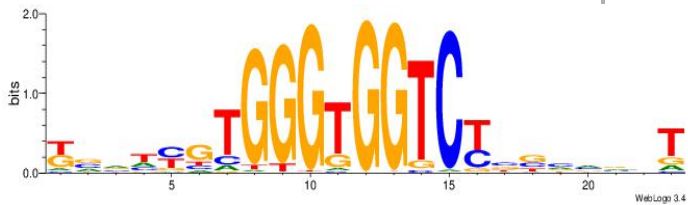
Similarity score: 0.0297053

Alignment:
YBVDMGTGGGTGGTCKVVBVBBT
--HCGGTGGGCGK-----

Original motif
Consensus sequence: ABBBBVVRGACCACCCACRDBBM



Reverse complement motif
Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT

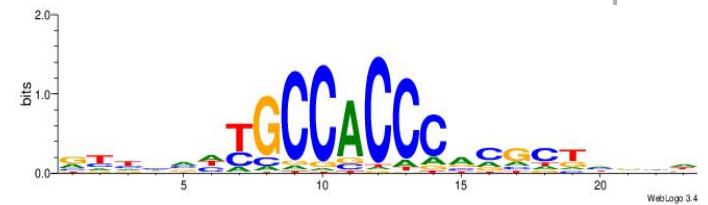
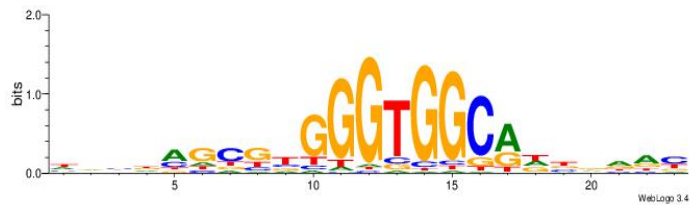


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0318144

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

Original motif
Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB

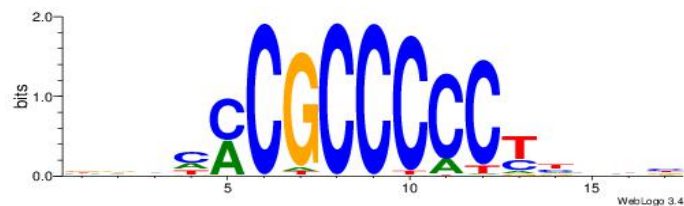
Reverse complement motif
Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



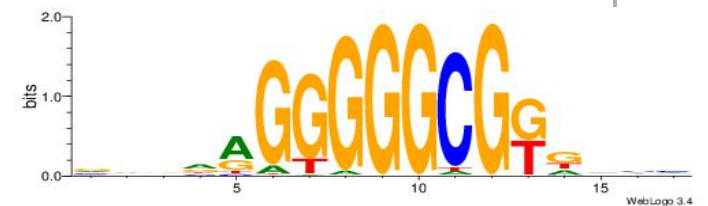
Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0345009

Alignment:
 BVVHAGGGGGCGRDHHB
 --HGCGTGGGCGK----

Original motif
 Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif
 Consensus sequence: BVVHAGGGGGCGRDHHB



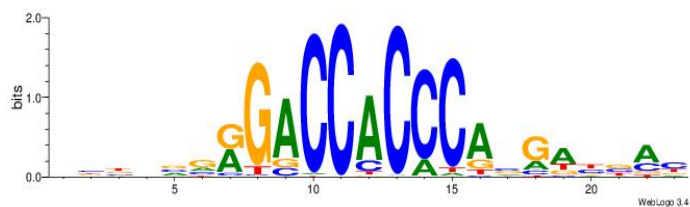
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.0353502

Alignment:

BTBVTCTVGGGTGGTCMVVDVBB
 ---HGCGTGGGCGK-----

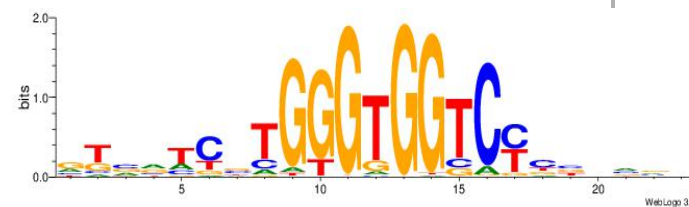
Original motif

Consensus sequence: BBBDVVRGACCACCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Motif ID: [UP00007](#)
 Motif name: Egr1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3

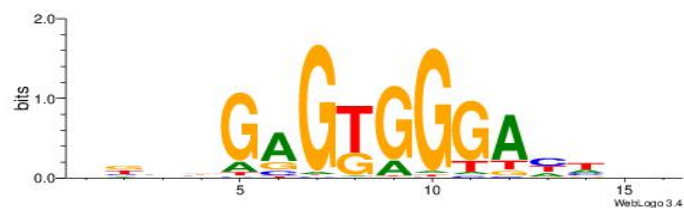
Number of overlap: 11
Similarity score: 0.0360229

Alignment:

BHHDTCCTCACTCBDBV
--YCGCCCACGCH--

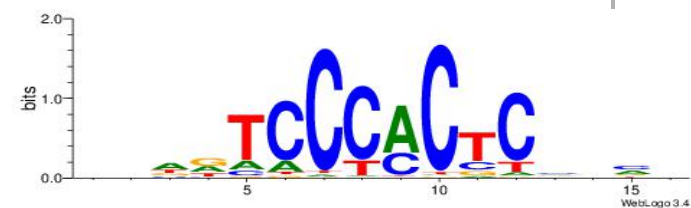
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCTCACTCBDBV



Motif ID: [UP00540](#)
Motif name: Gli3_v016060_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0362743

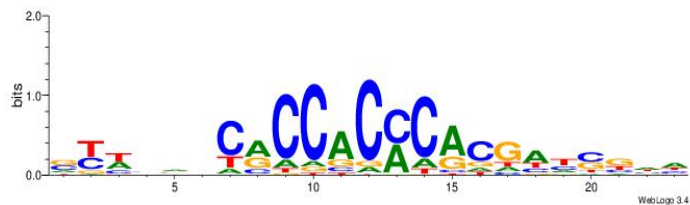
Alignment:

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

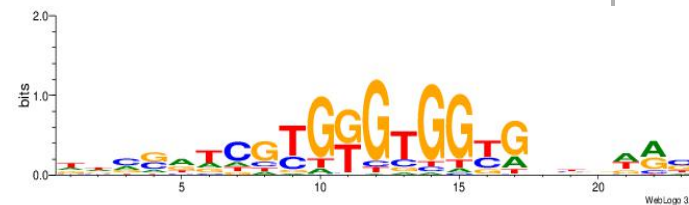
Original motif

Reverse complement motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



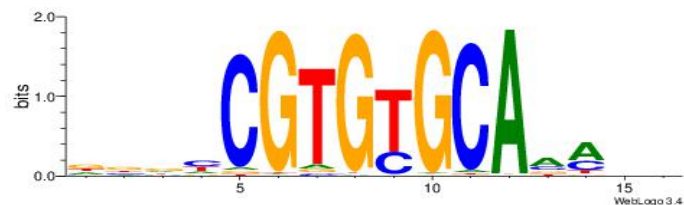
Motif ID: [UP00097](#)
Motif name: Mtf1_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0386944

Alignment:

HDYTTGCACACGDHBH
---YCGCCCACGCH--

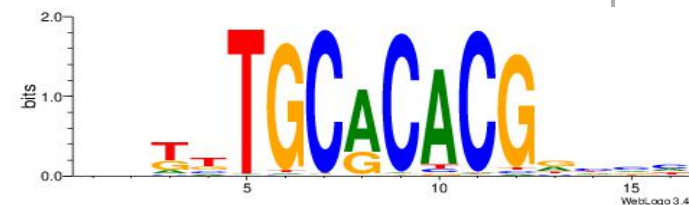
Original motif

Consensus sequence: DBDHCGTGTGCAAMDH



Reverse complement motif

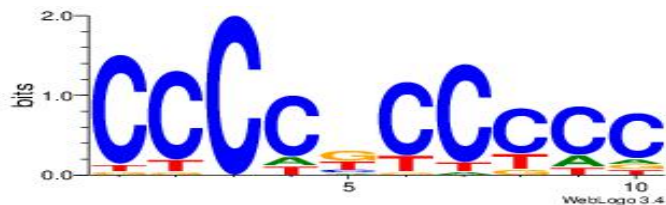
Consensus sequence: HDYTTGCACACGDHBH



Dataset #: 5 **Motif ID: 48** **Motif name: SP1**

Original motif

Consensus sequence: CCCCKCCCCC



Reverse complement motif

Consensus sequence: GGGGGYGGGG



Best Matches for Motif ID 48 (Highest to Lowest)

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

Alignment:

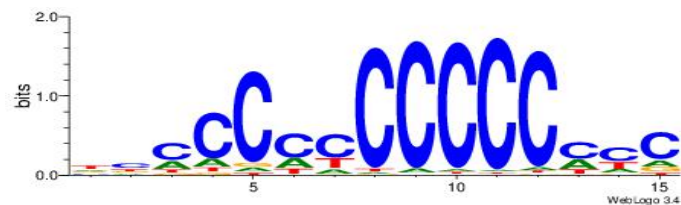
DBCCCCCCCCCMYC
--CCCCKCCCCC---

Original motif

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD

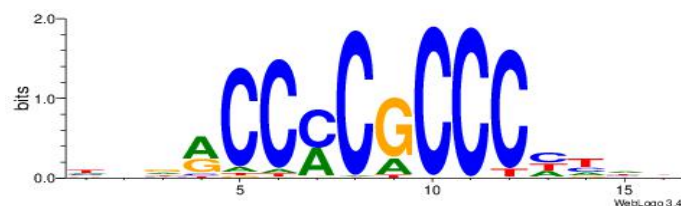


Motif ID: [UP00093](#)
 Motif name: Klf7_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0303207

Alignment:
 HBDRCMCGCCCHHD
 ----CCCCKCCCC--

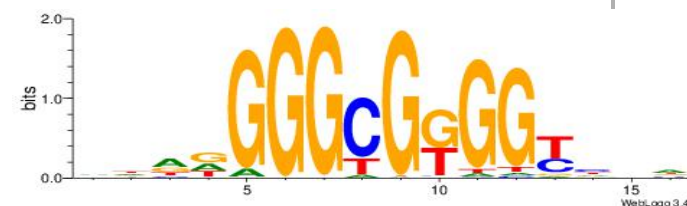
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



Motif ID: [UP00033](#)

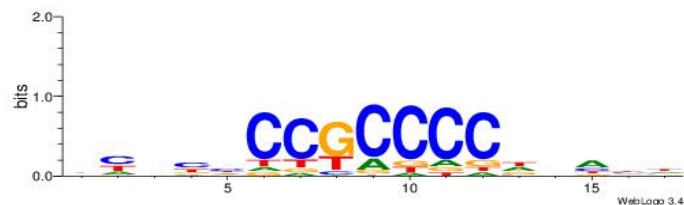
Motif name: Zfp410_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0323007

Alignment:

HHHHDGGGGCGGDBHDV
 ----GGGGGYGGG---

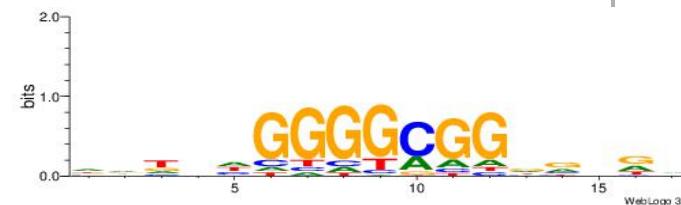
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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

Similarity score: 0.0340973

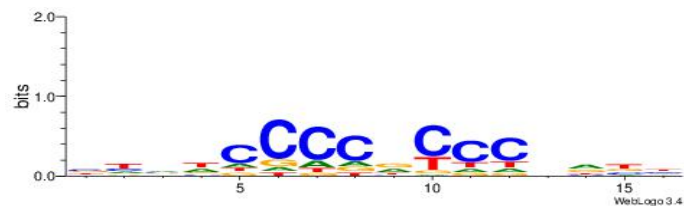
Alignment:

HVDVGGGHGGGGDBHB

--GGGGGYGGGG----

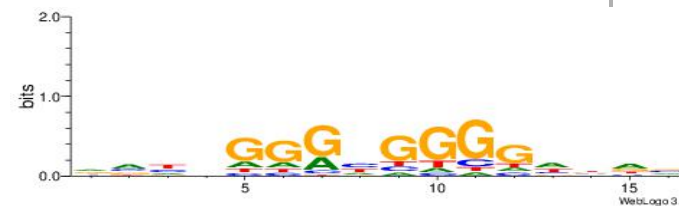
Original motif

Consensus sequence: BHVDCCCCDCCCBDBH



Reverse complement motif

Consensus sequence: HVDVGGGHGGGGDBHB



Motif ID: [UP00043](#)
Motif name: Bcl6b_secondary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0351051

Alignment:

BHHHWGGGGCGGBBVH

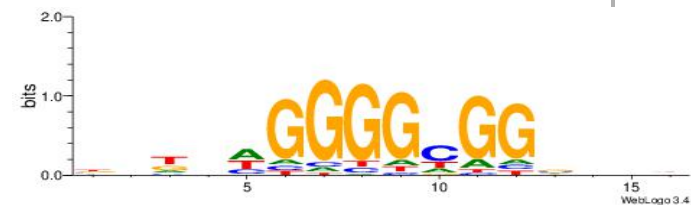
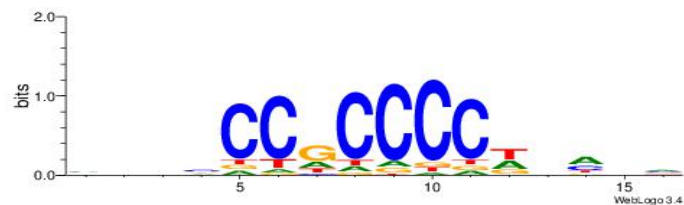
----GGGGGYGGGG--

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



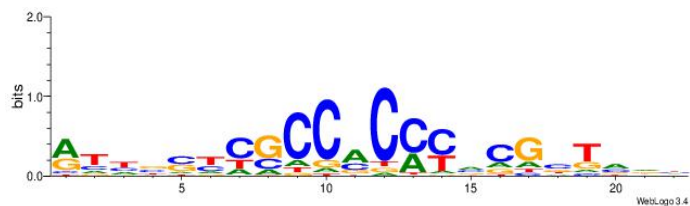
Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0390437

Alignment:

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

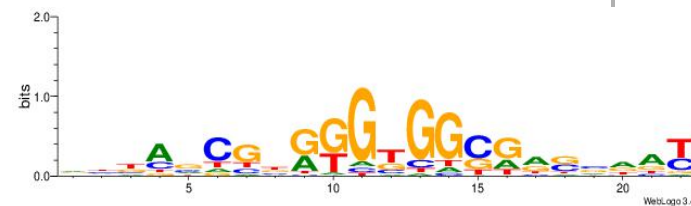
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



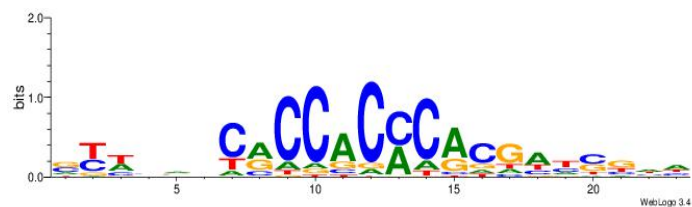
Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0393358

Alignment:

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

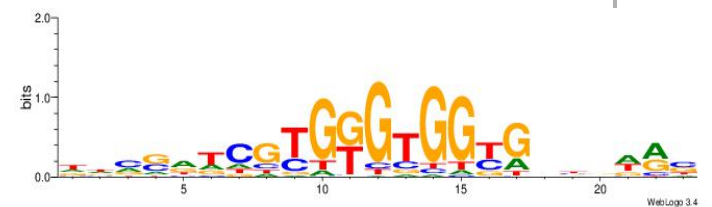
Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH



Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



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

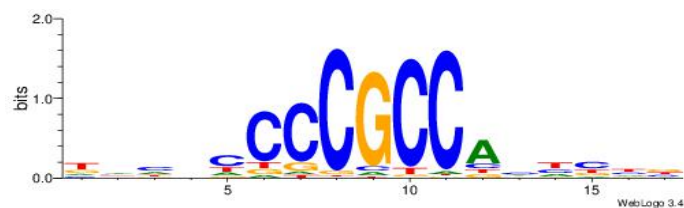
Number of overlap: 10
Similarity score: 0.0413863

Alignment:

DHHBCCCCGCCAHHBHB
----CCCCKCCCC--

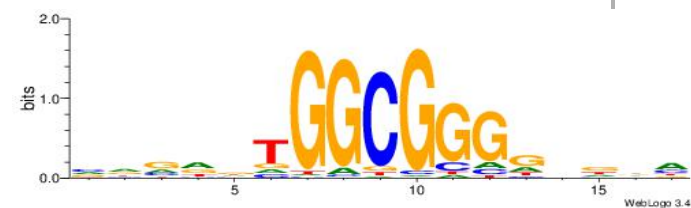
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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

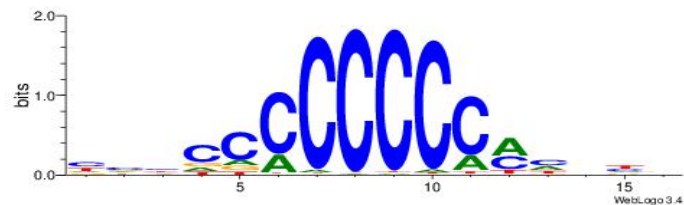
Alignment:

HVBCCCCCCCCMHHHB
---CCCCKCCCC---

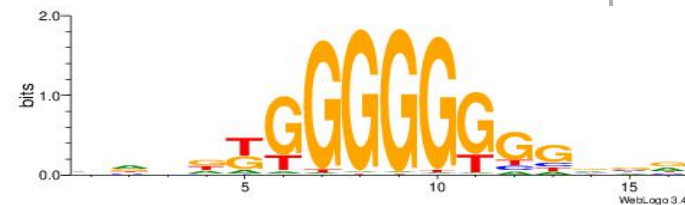
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



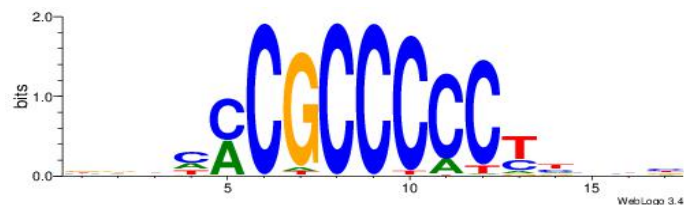
Motif ID: [UP00002](#)
Motif name: Sp4_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0420708

Alignment:

BDHHMCGCCCCCTHVBB
--CCCCKCCCC-----

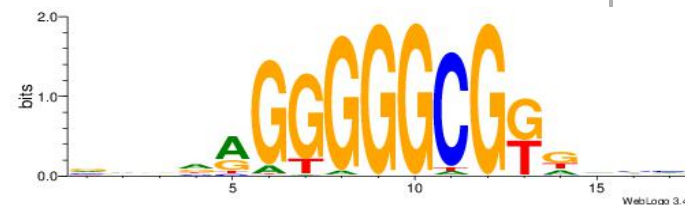
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

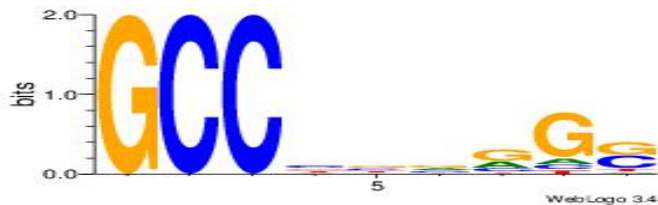
Consensus sequence: BVVHAGGGGGGCGRDHHB



Dataset #: 5 **Motif ID: 49** **Motif name: TFAP2A**

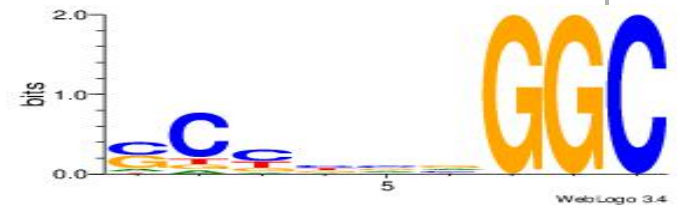
Original motif

Consensus sequence: GCCBBVRGS



Reverse complement motif

Consensus sequence: SCMVBGGC



Best Matches for Motif ID 49 (Highest to Lowest)

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

Alignment:

HHKGCCYSRGGCWAD

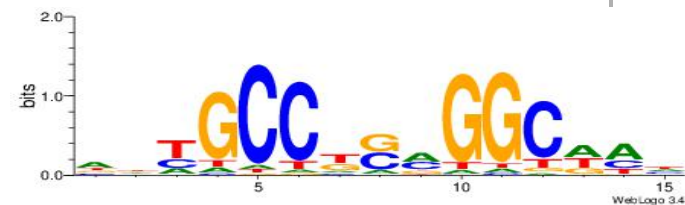
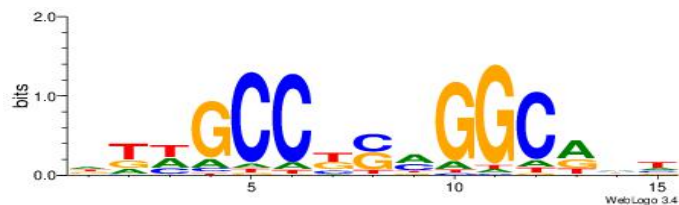
---GCCBBVRGS---

Original motif

Consensus sequence: DTWGCKSMGGCRHH

Reverse complement motif

Consensus sequence: HHKGCCYSRGGCWAD

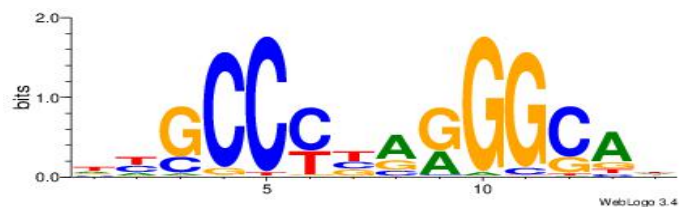


Motif ID: [UP00010](#)
 Motif name: Tcfap2b_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 9
 Similarity score: 0.0150447

Alignment:
 DYGCCYBARGGCAH
 --GCCBBVRGS---

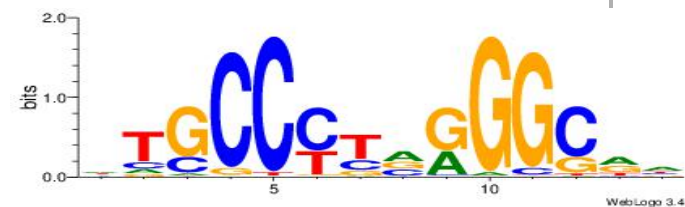
Original motif

Consensus sequence: DYGCCYBARGGCAH



Reverse complement motif

Consensus sequence: HTGCCMTVKGGCMD



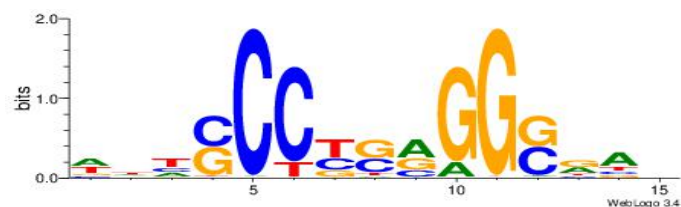
Motif ID: [UP00005](#)

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

Alignment:
 WDHSCCYSRGGSRAD
 ---GCCBBVRGS---

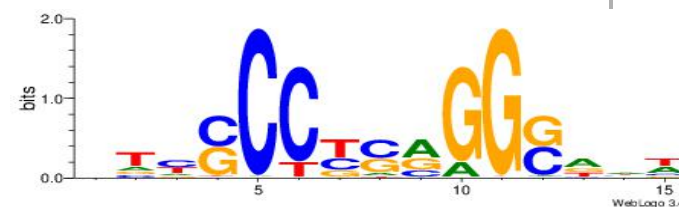
Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



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

Similarity score: 0.016909

Alignment:
WHHSCCYSRGGSDAD
---GCCBBVRGS---

Original motif
Consensus sequence: WHHSCCYSRGGSDAD



Reverse complement motif
Consensus sequence: DTHSCCKSMGGSHHW

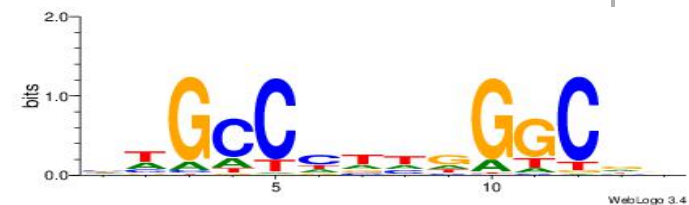
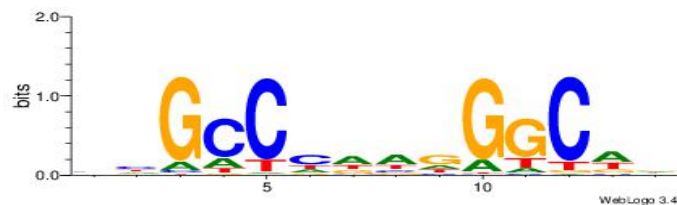


Motif ID: [UP00087](#)
Motif name: Tcfap2c_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0170259

Alignment:
BHGCCCDAGGGCWD
--GCCBBVRGS---

Original motif
Consensus sequence: BHGCCCDAGGGCWD

Reverse complement motif
Consensus sequence: HWGCCCTDGGGCDB



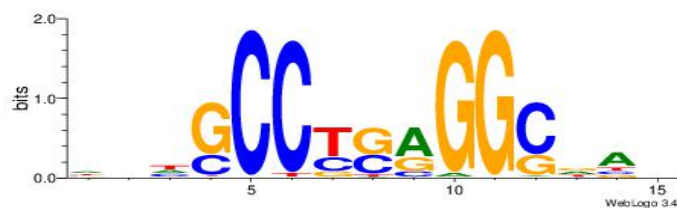
Motif ID: [UP00028](#)
 Motif name: Tcfap2e_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 9
 Similarity score: 0.0198854

Alignment:

HHHGCCTSAGGCDAD
 ---GCCBBVRGS---

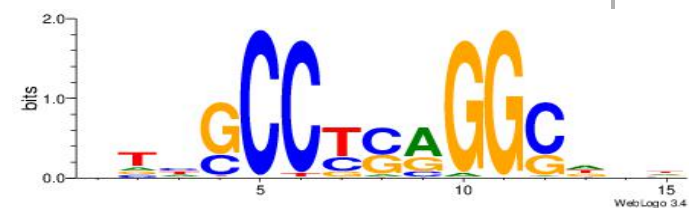
Original motif

Consensus sequence: HHHGCCTSAGGCDAD



Reverse complement motif

Consensus sequence: DTHGCCTSAGGCHHH



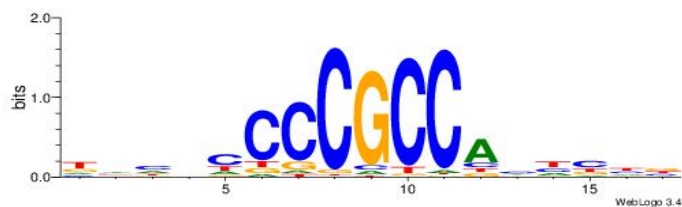
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 9
 Similarity score: 0.0203681

Alignment:

BHBHDTGGCGGGGBDHD
 SCMVBBGGC-----

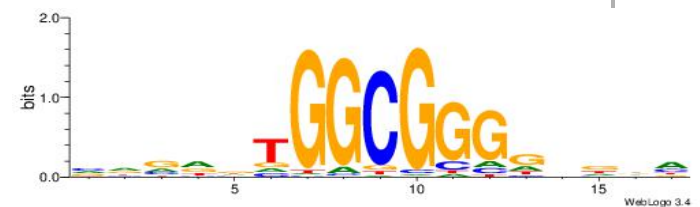
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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

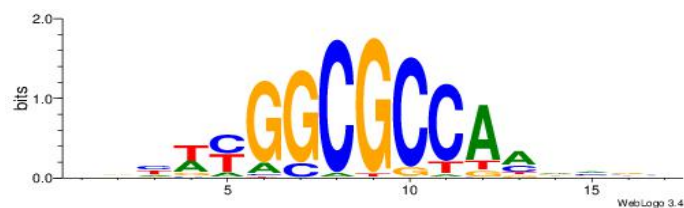
Number of overlap: 9
Similarity score: 0.0217064

Alignment:

BBBDYTGGCGCCKWDBD
SCMVBBGGC-----

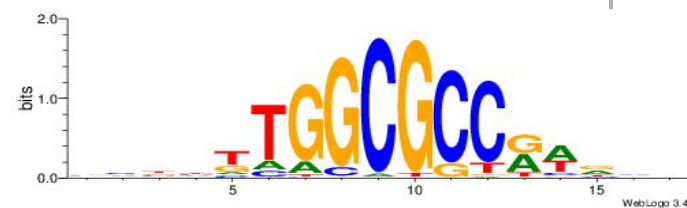
Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD



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

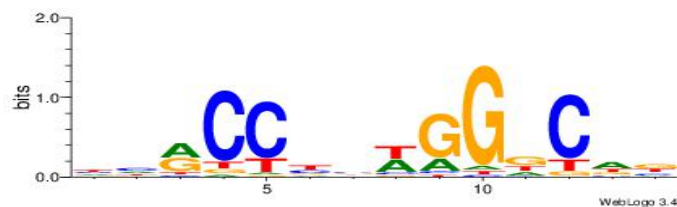
Alignment:

HHRCCBBWGGDCDB
--GCCBBVRGS---

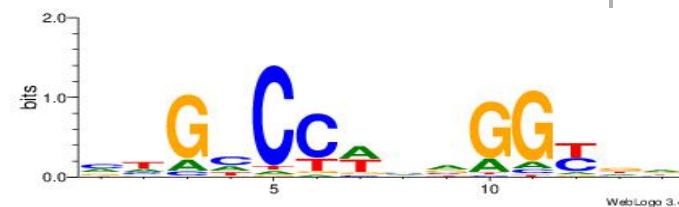
Original motif

Reverse complement motif

Consensus sequence: HHRCCBBWGGDCDB



Consensus sequence: BDGHCCWBVGGKDH



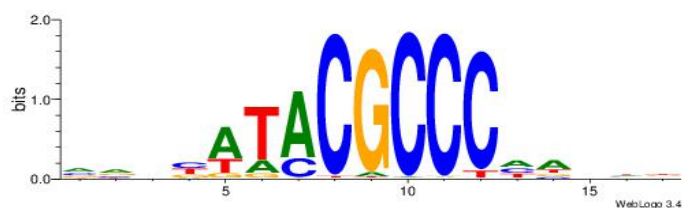
Motif ID: [UP00093](#)
Motif name: Klf7_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.026642

Alignment:

VVDBATACGCCCHAHHD
-----GCCBBVRGS

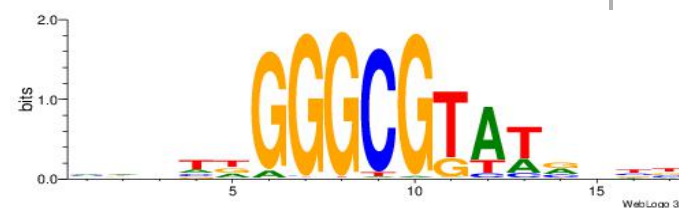
Original motif

Consensus sequence: VVDBATACGCCCHAHHD



Reverse complement motif

Consensus sequence: DHDTHGGGCGTATBHBB



Dataset #: 5 **Motif ID: 50** **Motif name: MIZF**

Original motif

Consensus sequence: BAACGTCCGC



Reverse complement motif

Consensus sequence: GCGGACGTTT



Best Matches for Motif ID 50 (Highest to Lowest)

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

Alignment:

DWACTTCCRCTTTB

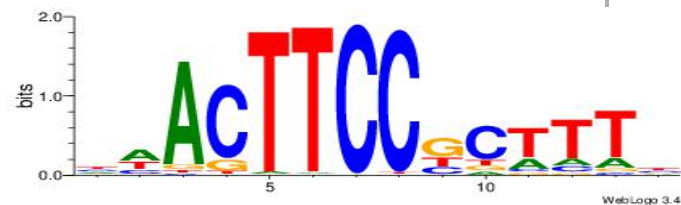
BAACGTCCGC----

Original motif

Consensus sequence: VAAAGMGGAAAGTWD

Reverse complement motif

Consensus sequence: DWACTTCCRCTTTB



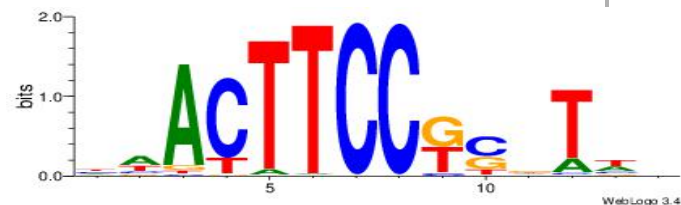
Motif ID: [UP00409](#)
 Motif name: Elf5
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.00379999

Alignment:
 BWAHSMGGAAGTWD
 BAACGTCCGC-----

Original motif
 Consensus sequence: BWAHSMGGAAGTWD



Reverse complement motif
 Consensus sequence: DWACTTCCRSDTWV



Motif ID: [UP00413](#)
 Motif name: Elf4

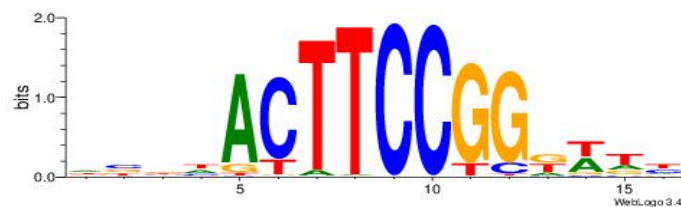
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0124101

Alignment:

DBBHACTTCCGGKWITH
 --BAACGTCCGC----

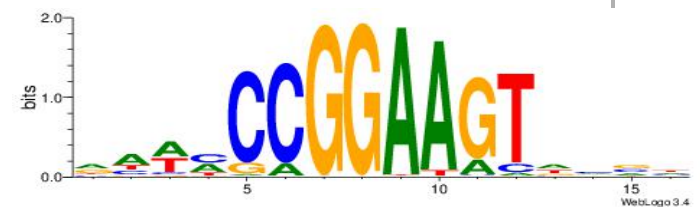
Original motif

Consensus sequence: DBBHACTTCCGGKWITH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



Motif ID: [UP00404](#)
 Motif name: Elf2
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0128348

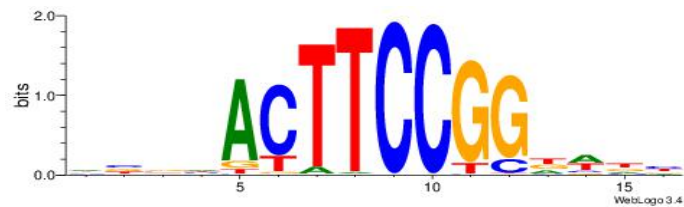
Alignment:

DBBHACTTCCGGDWDB

--BAACGTCCGC----

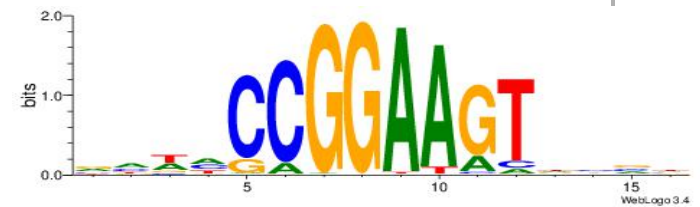
Original motif

Consensus sequence: DBBHACTTCCGGDWDB



Reverse complement motif

Consensus sequence: BDWDCCGGAAGTHBBD



Motif ID:

[UP00085](#)

Motif name:

Sfp1_primary

Species:

Mus musculus

Matching format of first motif:

Original Motif

Matching format of second motif:

Reverse Complement

Direction:

Forward

Position number:

1

Number of overlap:

10

Similarity score:

0.0141516

Alignment:

HDACTTCCBCWTDV

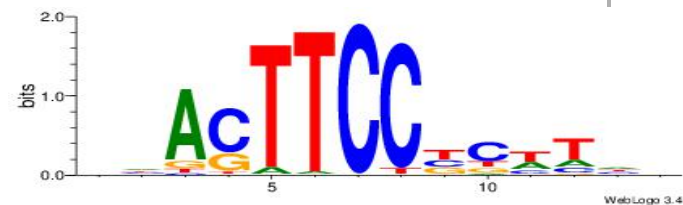
BAACGTCCGC----

Original motif

Consensus sequence: BDAWGVGGAAGTDH

Reverse complement motif

Consensus sequence: HDACTTCCBCWTDV

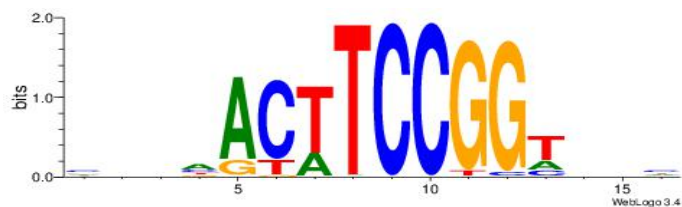


Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0144665

Alignment:
 DVHACCGGAAGTHDDV
 ----GCGGACGTTV--

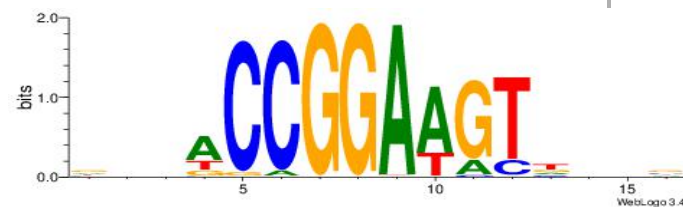
Original motif

Consensus sequence: VDHHA⁺CTTCCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



Motif ID: [UP00412](#)

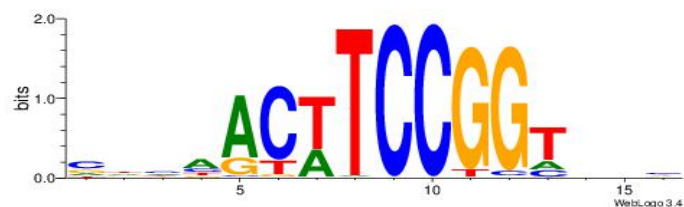
Motif name: Etv5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0155825

Alignment:

DHHACCGAWGTTDDV
 ----GCGGACGTTV--

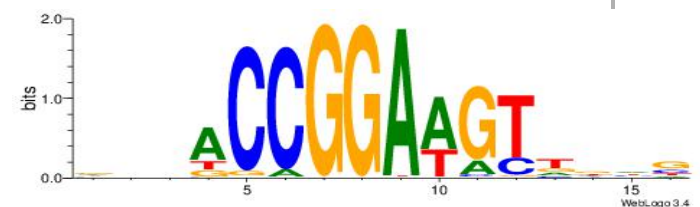
Original motif

Consensus sequence: VDHAACWTCCGGTHHH



Reverse complement motif

Consensus sequence: DHHACCGAWGTTDDV



Motif ID: [UP00015](#)
 Motif name: Ehf_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 10

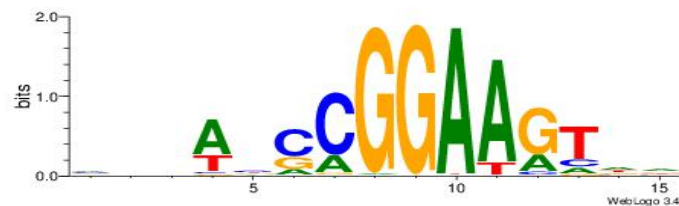
Similarity score: 0.0162018

Alignment:

VBDABCCGGAAGTDD
-----GCGGACGTTV

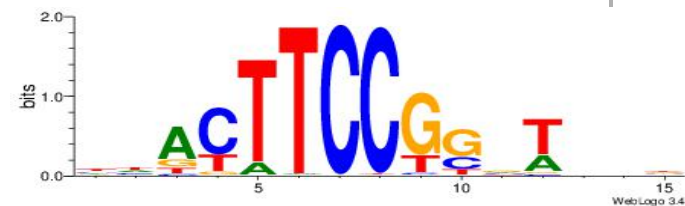
Original motif

Consensus sequence: VBDABCCGGAAGTDD



Reverse complement motif

Consensus sequence: DDACTTCCGGBTHBB



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

Alignment:

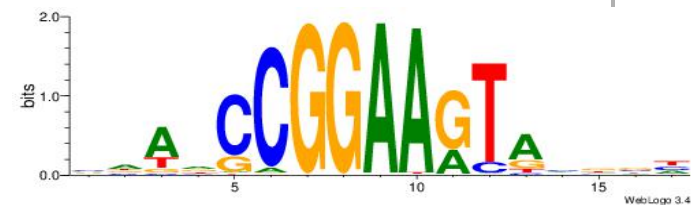
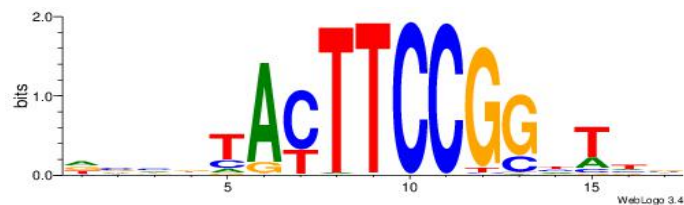
DVHBTACTTCCGGHTHB
---BAACGTCCGC----

Original motif

Consensus sequence: DVHBTACTTCCGGHTHB

Reverse complement motif

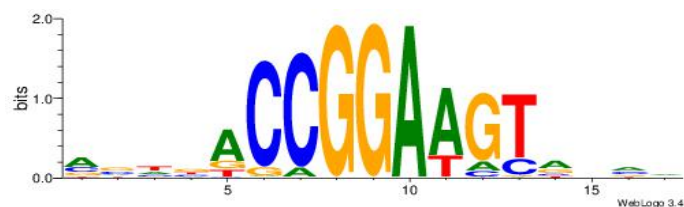
Consensus sequence: BHAHCCGGAAGTABDVD



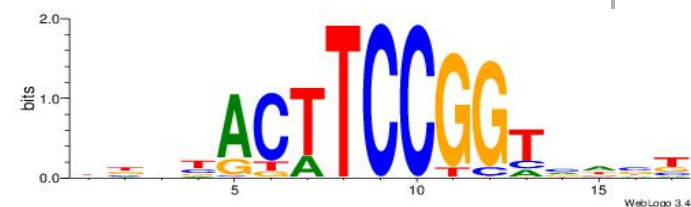
Motif ID: [UP00421](#)
 Motif name: Etv1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0184147

Alignment:
 MVHBACCGGAAGTVDVH
 -----GCGGACGTTV--

Original motif
 Consensus sequence: MVHBACCGGAAGTVDVH



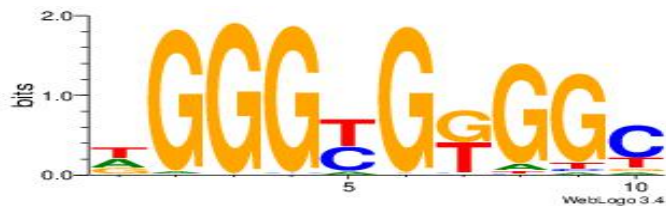
Reverse complement motif
 Consensus sequence: HBDBACTTCCGGTBHVY



Dataset #: 5 **Motif ID: 51** **Motif name: Klf4**

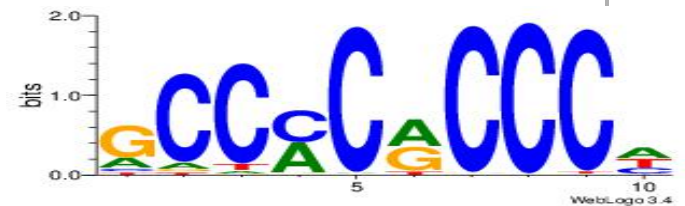
Original motif

Consensus sequence: DGGGYGKGGC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 51 (Highest to Lowest)

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

Alignment:

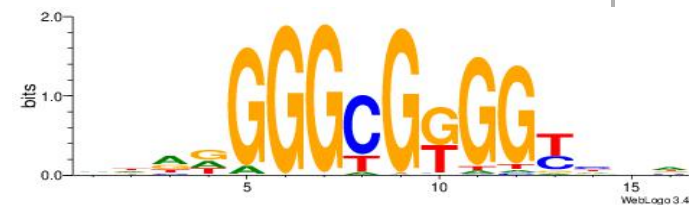
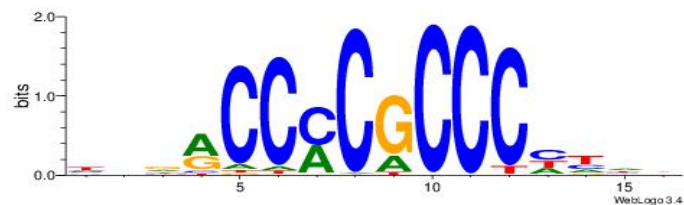
```
DHHDGGGCGRGGKHBH  
----DGGGYGKGGC----
```

Original motif

Consensus sequence: HBDRCMCGCCCHHHD

Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH

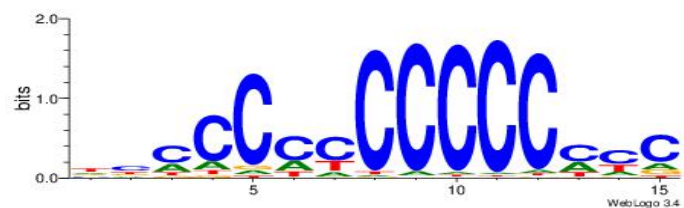


Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0153308

Alignment:
 DBCCCCCCCCCMYC
 ---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCCMYC



Reverse complement motif

Consensus sequence: GKRGGGGGGGGGGBD



Motif ID: [UP00002](#)

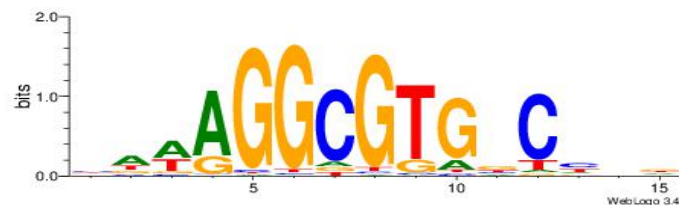
Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 3
 Number of overlap: 10
 Similarity score: 0.0186791

Alignment:

BDWAGGCGTGBCHHD
 --DGGGYGKGGC---

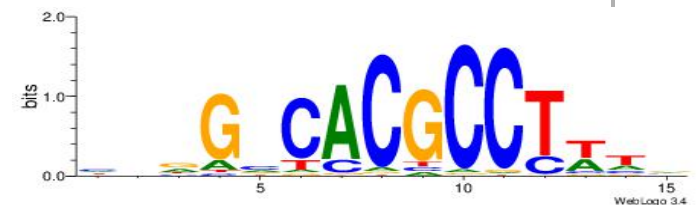
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



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

Similarity score: 0.0218399

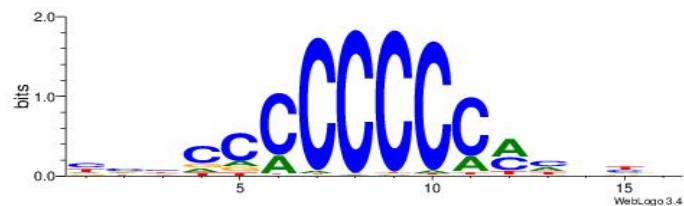
Alignment:

HVBCCCCCCCCMHHHB

--GCCYCMCCCD----

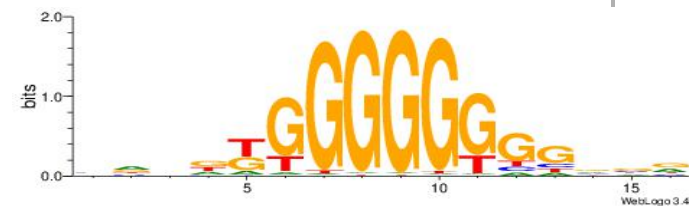
Original motif

Consensus sequence: HVBCCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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

Alignment:

VHTGCGGGGGCGGH

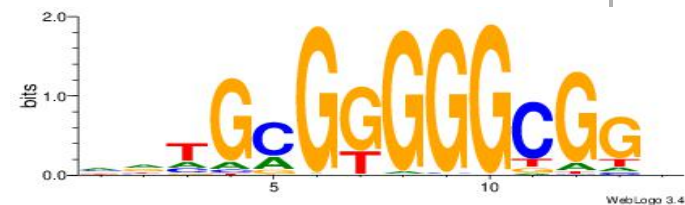
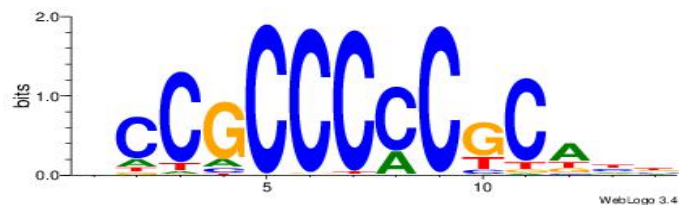
GCCYCMCCCD----

Original motif

Consensus sequence: HCCGCCCCCGCAHB

Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH

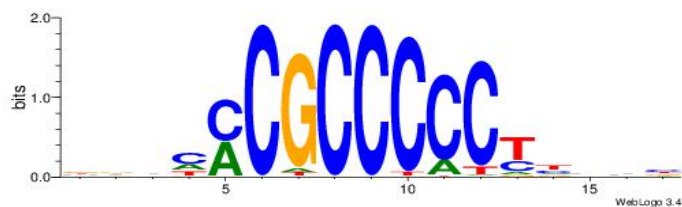


Motif ID: [UP00002](#)
 Motif name: Sp4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.0299159

Alignment:
 BVVHAGGGGGCGRDHBB
 -----DGGGYGKGGC-

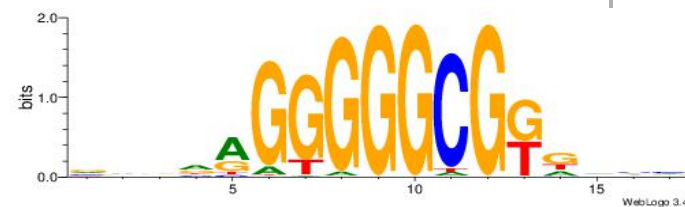
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHBB



Motif ID: [UP00000](#)

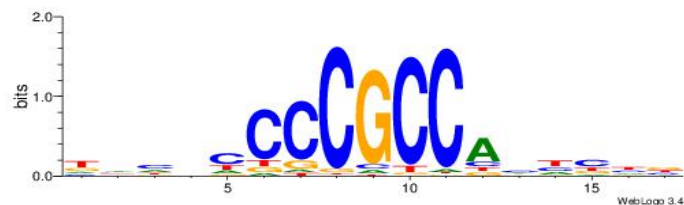
Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.0308595

Alignment:

BHBHDTGGCGGGBDHD
 ----DGGGYGKGGC---

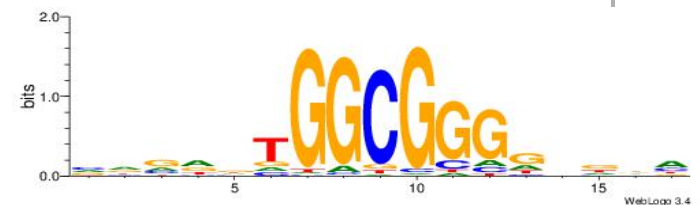
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



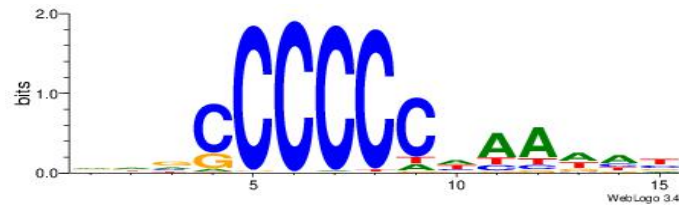
Motif ID: [UP00047](#)
 Motif name: Zbtb7b_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0.0345891

Alignment:

VHWTTHGGGGGGVDD
GCCYCMCCCD-----

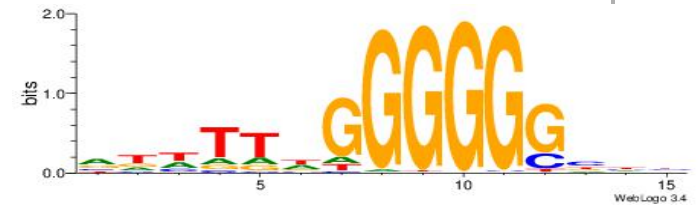
Original motif

Consensus sequence: DDVCCCCCCHAAWHB



Reverse complement motif

Consensus sequence: VHWTTHGGGGGGVDD



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

Alignment:

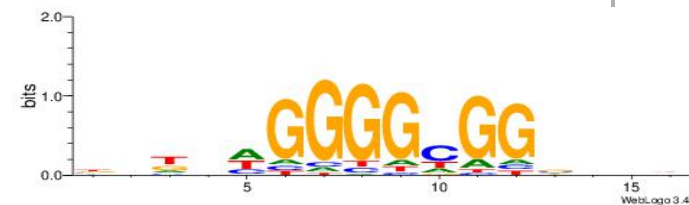
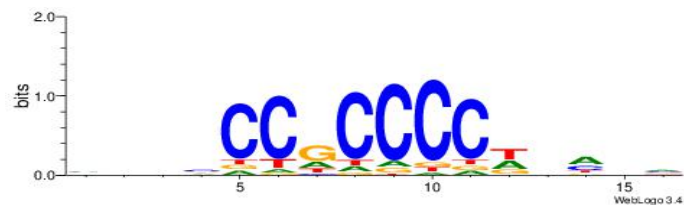
HBBCCGCCCCWHHHV
--GCCYCMCCCD-----

Original motif

Consensus sequence: HBBCCGCCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH



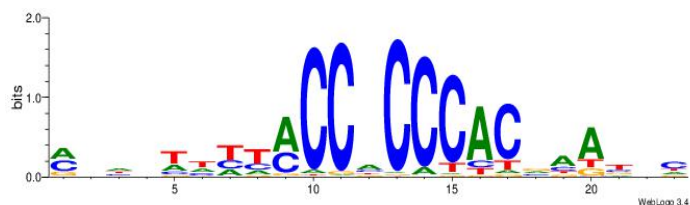
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.0351496

Alignment:

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

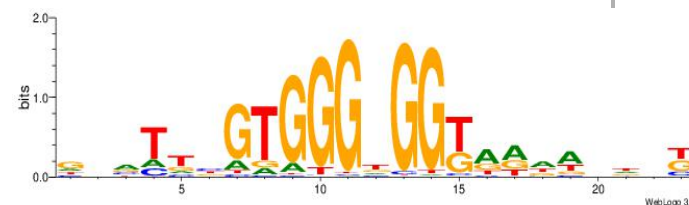
Original motif

Consensus sequence: MHHHWHYTMCCCHCCCACVAABVH



Reverse complement motif

Consensus sequence: DVVTTVGTGGGHGGYAMHWHHHY



Dataset #: 5 **Motif ID: 52** **Motif name: E2F1**

Original motif

Consensus sequence: TTTSGCGC



Reverse complement motif

Consensus sequence: GCGCSAAA



Best Matches for Motif ID 52 (Highest to Lowest)

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

Alignment:

HVBWYGGCGCCAADVBB

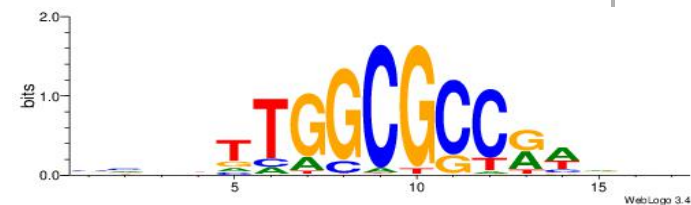
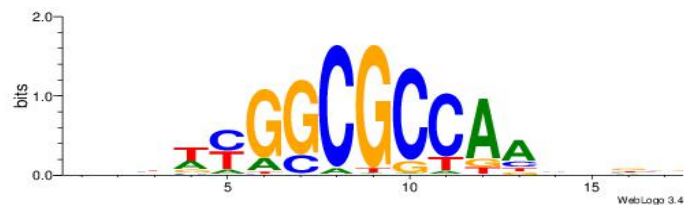
-----GCGCSAAA----

Original motif

Consensus sequence: HVBWYGGCGCCAADVBB

Reverse complement motif

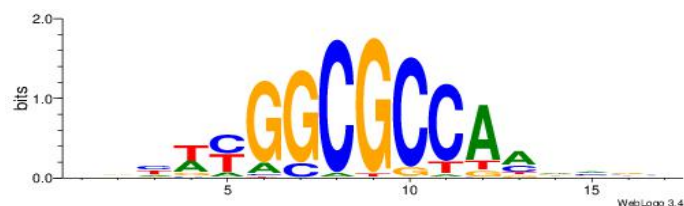
Consensus sequence: BBBDTTGGCGCCKWVVD



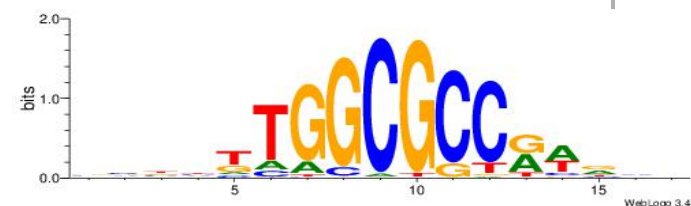
Motif ID: [UP00003](#)
 Motif name: E2F3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.00182028

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

Original motif
 Consensus sequence: HBHWYGGCGCCAMDVB



Reverse complement motif
 Consensus sequence: BBBDYTGGCGCKWDBD



Motif ID: [UP00072](#)

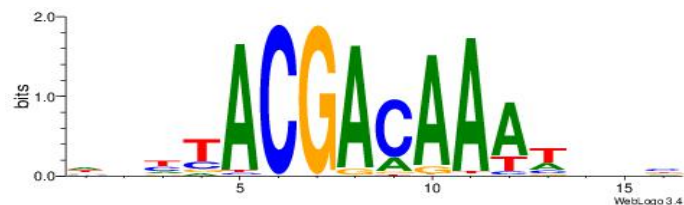
Motif name: IRC900814_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0237639

Alignment:

BHDWTTTGTCTAHDD
 ----TTTSGCGC----

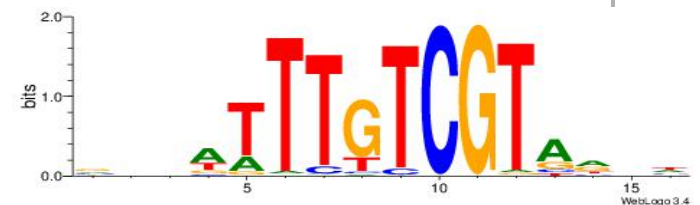
Original motif

Consensus sequence: DDHTACGACAAWDDDB



Reverse complement motif

Consensus sequence: BHDWTTTGTCTAHDD



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

Similarity score: 0.0275636

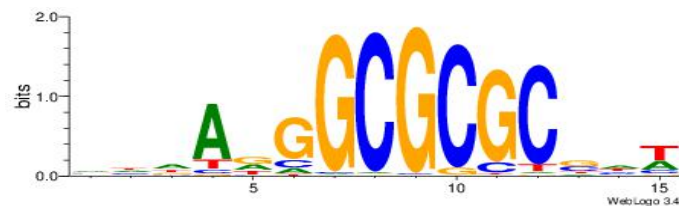
Alignment:

WHSGCGCGCCHTDHB

-----GCGCSAAA--

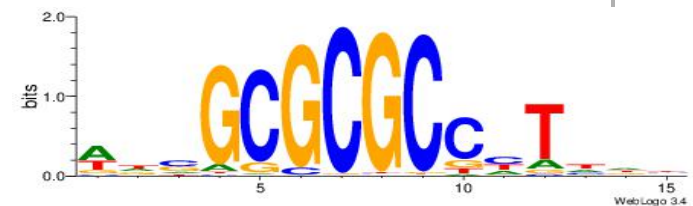
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



Motif ID: [UP00065](#)

Motif name: Zfp161_primary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Reverse Complement

Direction: Forward

Position number: 9

Number of overlap: 8

Similarity score: 0.028109

Alignment:

DMMDGMGCGCGCGCHD

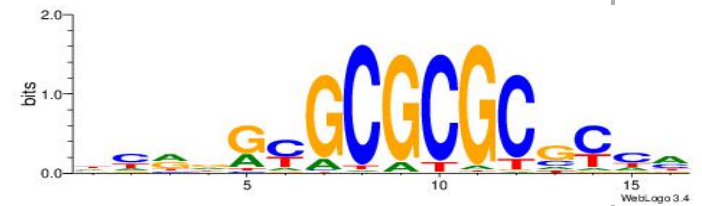
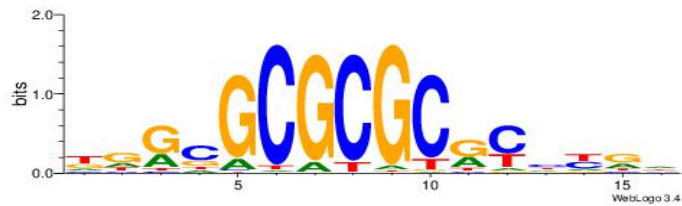
-----GCGCSAAA

Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

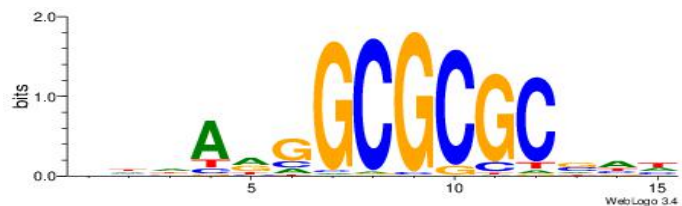
Consensus sequence: DMMDGMGCGCGCGCHD



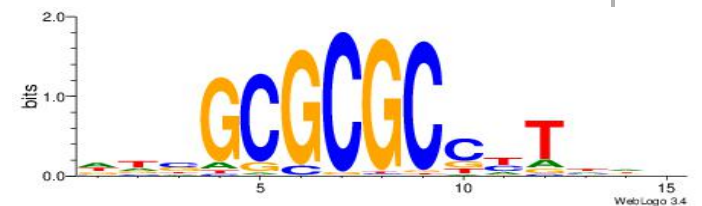
Motif ID: [UP00001](#)
 Motif name: E2F2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 8
 Similarity score: 0.0296302

Alignment:
 HHVGCGCGCCKTDHB
 -----GCGCSAAA--

Original motif
 Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif
 Consensus sequence: HHVGCGCGCCKTDHB



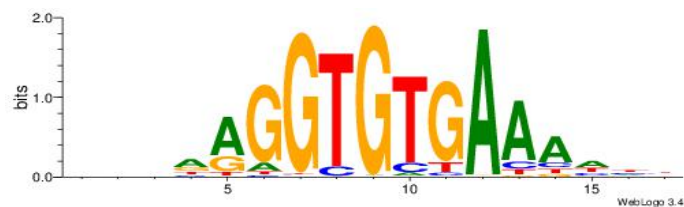
Motif ID: [UP00068](#)
 Motif name: Eomes_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.0348969

Alignment:

BVHDAGGTGTGAAHHH
 -----GCGCSAAA----

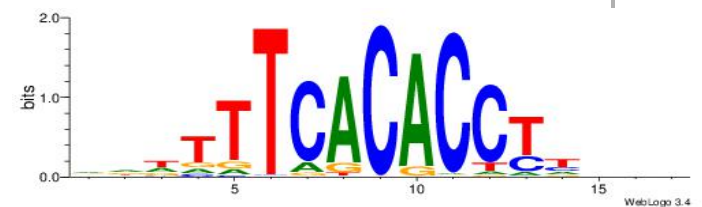
Original motif

Consensus sequence: BVHDAGGTGTGAAHHH



Reverse complement motif

Consensus sequence: HHHTTTCACACCTDHBV



Motif ID: [UP00011](#)
 Motif name: Irf6_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8

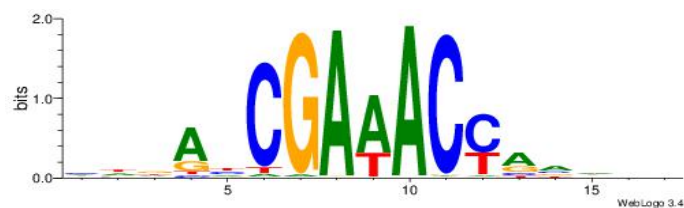
Number of overlap: 8
Similarity score: 0.0368278

Alignment:

DHDBTKGTTTCGHTHDD
-----TTTSGCGC--

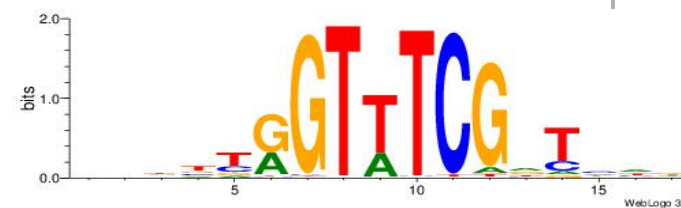
Original motif

Consensus sequence: HDDAHCGAAACYAVDDD



Reverse complement motif

Consensus sequence: DHDBTKGTTTCGHTHDD



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

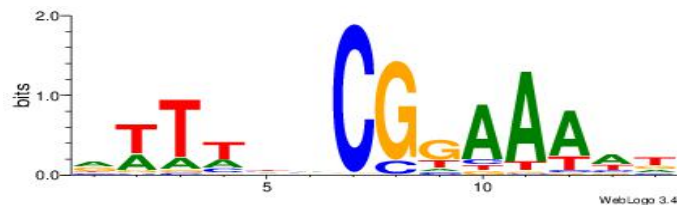
Alignment:

DWTTTCCGHHWAWD
-----GCGCSAAA-

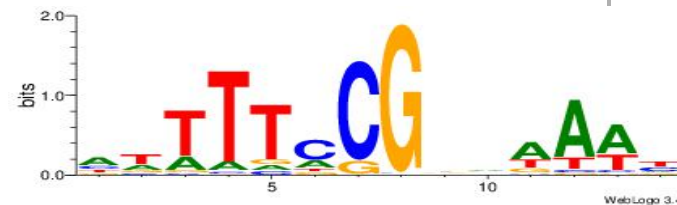
Original motif

Reverse complement motif

Consensus sequence: DWTWHHCGGAAAWD



Consensus sequence: DWTTTCCGHHWAWD



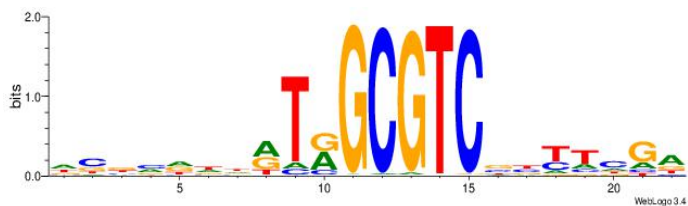
Motif ID: [UP00527](#)
Motif name: Foxn4_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0406002

Alignment:

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

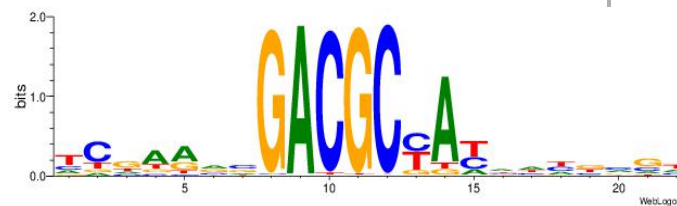
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMKDDDVBBB



Dataset #: 5

Motif ID: 53

Motif name: HIF1AARNT

Original motif

Consensus sequence: VBACGTGV



Reverse complement motif

Consensus sequence: VCACGTBV



Best Matches for Motif ID 53 (Highest to Lowest)

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

Alignment:

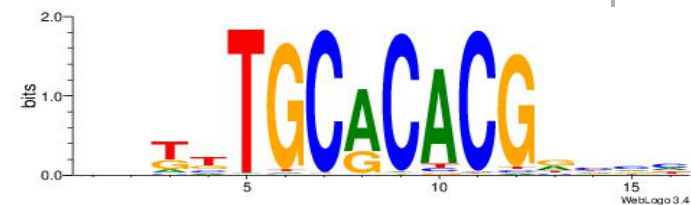
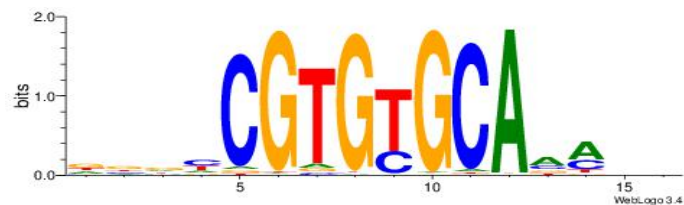
```
HDYTTGCACACGDHBH
-----VCACGTBV--
```

Original motif

Consensus sequence: DBDHCGTGTGCAAMDH

Reverse complement motif

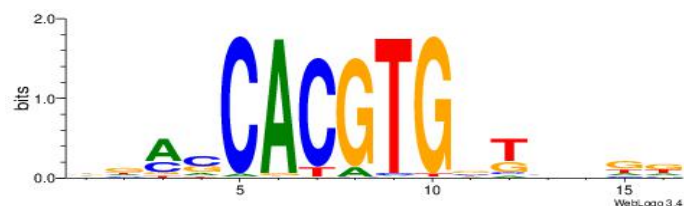
Consensus sequence: HDYTTGCACACGDHBH



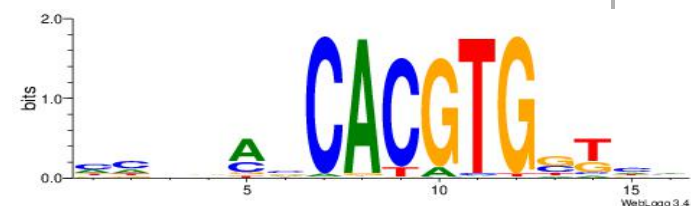
Motif ID: [UP00060](#)
 Motif name: Max_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 8
 Similarity score: 0.000574345

Alignment:
 DDASCACGTGBTBVDD
 ---VBACGTGV-----

Original motif
 Consensus sequence: DDASCACGTGBTBVDD



Reverse complement motif
 Consensus sequence: HHVBABCACGTGSTHD



Motif ID: [UP00050](#)

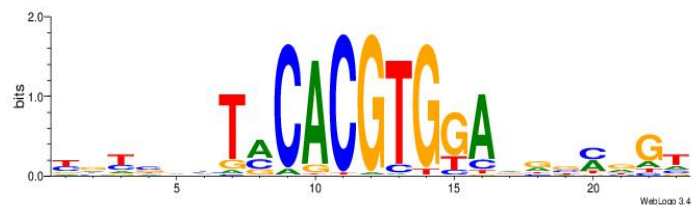
Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 8
 Similarity score: 0.00642455

Alignment:

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

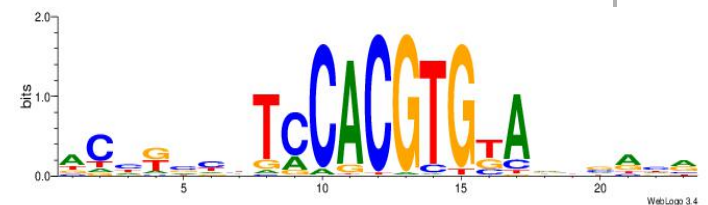
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



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

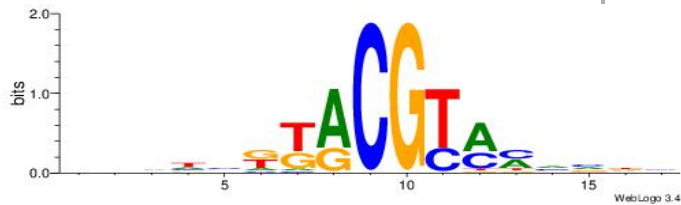
Similarity score: 0.0131171

Alignment:
BVVDVRYACGTRYVBHB
-----VBACGTGV-----

Original motif
Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif
Consensus sequence: BVVDVRYACGTRYVBHB

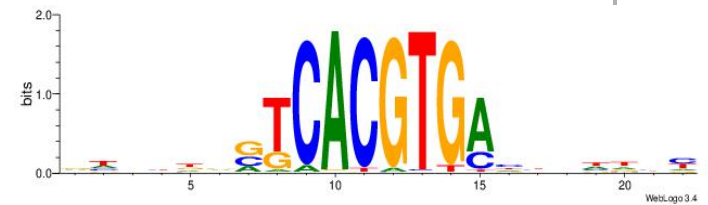
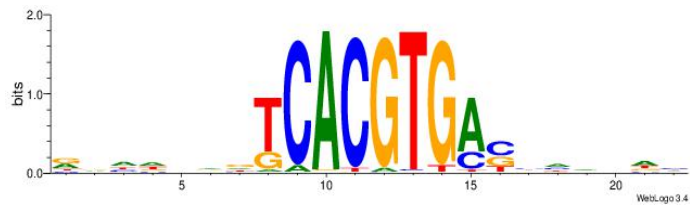


Motif ID: [UP00050](#)
Motif name: Bhlhb2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.014006

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

Original motif
Consensus sequence: RDHDBVDTACGTGASBHVHDH

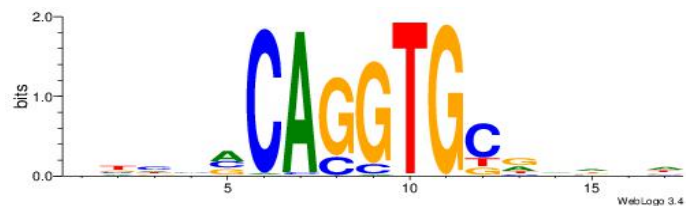
Reverse complement motif
Consensus sequence: DDHBHBSTACGTGAHBBDHMH



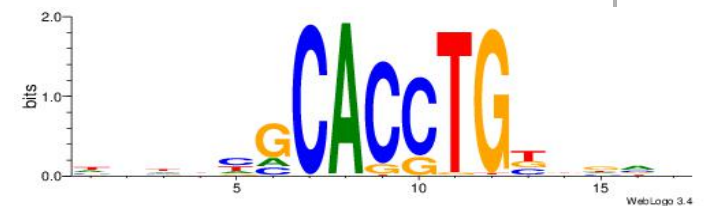
Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 5
 Number of overlap: 8
 Similarity score: 0.0184296

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

Original motif
 Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif
 Consensus sequence: DHDBHGCACCTGBDDVB



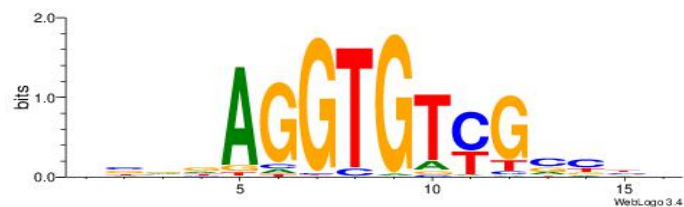
Motif ID: [UP00068](#)
 Motif name: Eomes_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 8
 Similarity score: 0.0188154

Alignment:

VVBVCKACACCTHVBV
 -----VCACGTBV--

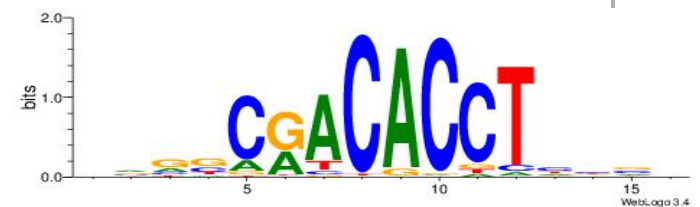
Original motif

Consensus sequence: VBVDAGGTGTGYVBBV



Reverse complement motif

Consensus sequence: VVBVCKACACCTHVBV



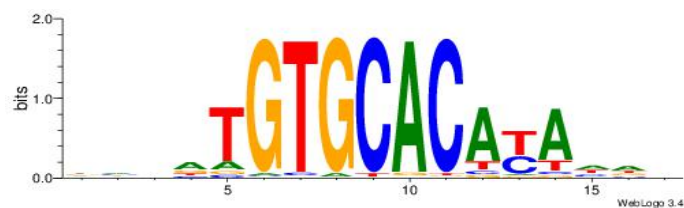
Motif ID: [UP00026](#)
 Motif name: Zscan4_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9

Number of overlap: 8
Similarity score: 0.0189568

Alignment:
DHVDTGTGCACAYAHDH
-VBACGTGV-----

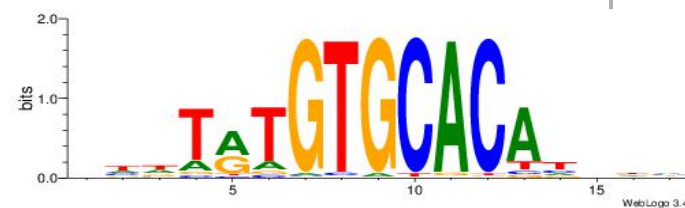
Original motif

Consensus sequence: DHVDTGTGCACAYAHDH



Reverse complement motif

Consensus sequence: HDHTMTGTGCACADVHD



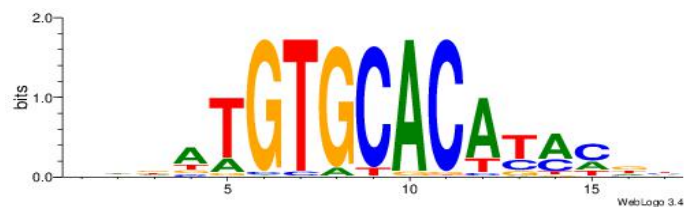
Motif ID: [UP00042](#)
Motif name: Gm397_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0198987

Alignment:
HHRTATGTGCACATHHD
--VBACGTGV-----

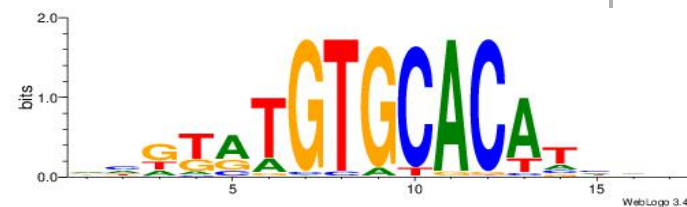
Original motif

Reverse complement motif

Consensus sequence: HHDATGTGCACATAMDH



Consensus sequence: HHRTATGTGCACATHHD



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

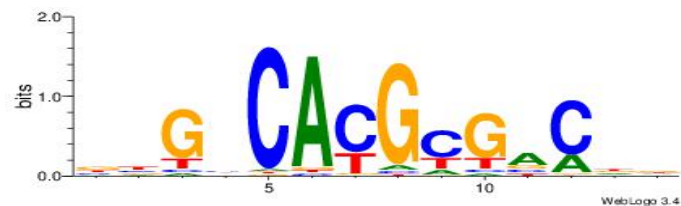
Alignment:

BBGHCACGCGACDD

---VCACGTBV---

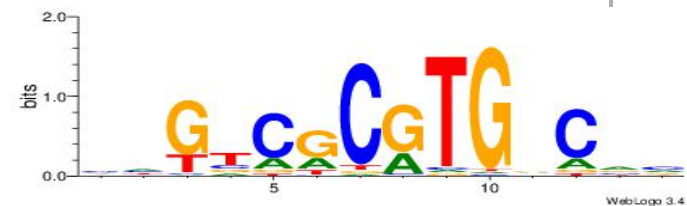
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

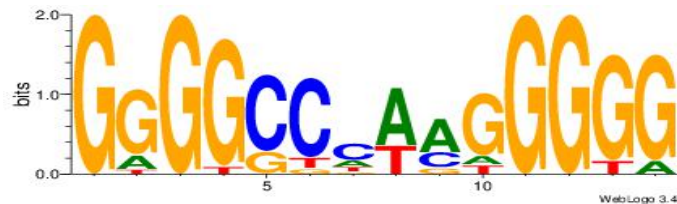
Consensus sequence: HDGTCGCGTGDCVB



Dataset #: 5 **Motif ID: 54** **Motif name: PLAG1**

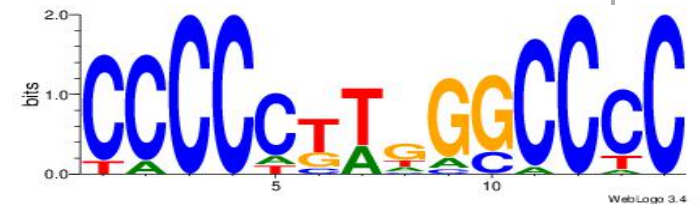
Original motif

Consensus sequence: GGGGCCCAAGGGGG



Reverse complement motif

Consensus sequence: CCCCCTTGGGCCCC



Best Matches for Motif ID 54 (Highest to Lowest)

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

Alignment:

CCCCCCC GGGGGHB

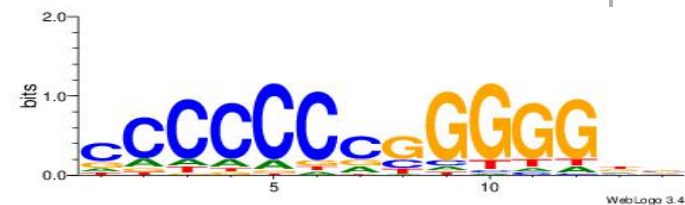
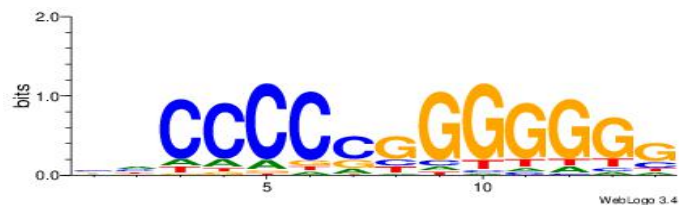
CCCCCTTGGGCCCC

Original motif

Consensus sequence: BHCCCCCGGGGGGG

Reverse complement motif

Consensus sequence: CCCCCCGGGGGHB



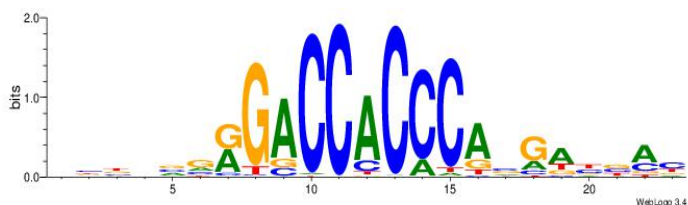
Motif ID: [UP00538](#)
 Motif name: Gli1_v015681_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0540613

Alignment:

BBBDVVRGACCACCCAVGABBAB
 -----CCCCCTTGGGCCCC

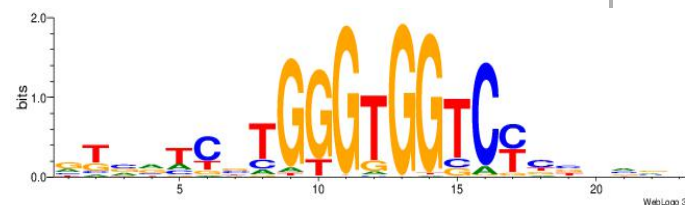
Original motif

Consensus sequence: BBBDVVRGACCACCCAVGABBAB



Reverse complement motif

Consensus sequence: BTBVTCTVGGGTGGTCMVVDVBB



Motif ID: [UP00057](#)

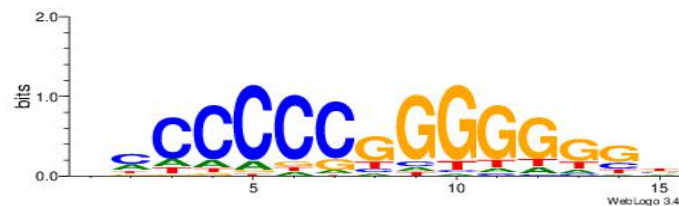
Motif name: Zic2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0548411

Alignment:

BMCCCCCGGGGGGGB
 -CCCCCTTGGGCCCC

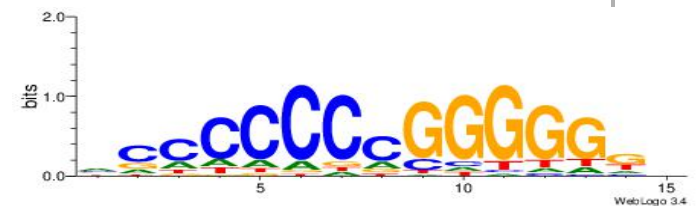
Original motif

Consensus sequence: BMCCCCCGGGGGGGB



Reverse complement motif

Consensus sequence: VCCCCCCGGGGGRB



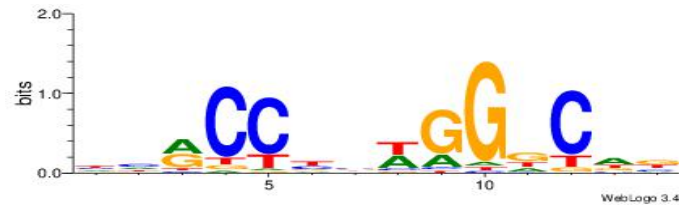
Motif ID: [UP00005](#)
 Motif name: Tcfap2a_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0556785

Alignment:

HHRCCBBWGGDCDB
GGGGCCCAAGGGGG

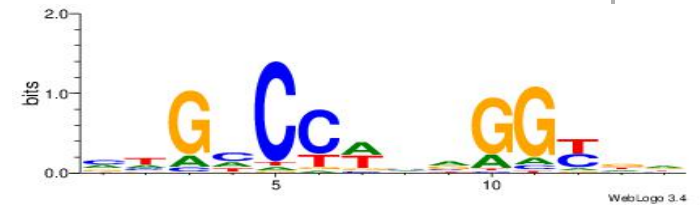
Original motif

Consensus sequence: HHRCCBBWGGDCDB



Reverse complement motif

Consensus sequence: BDGHCCWBVGKDH



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

Alignment:

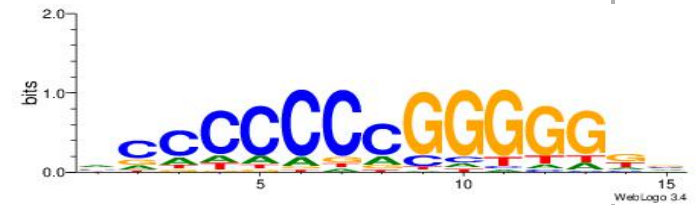
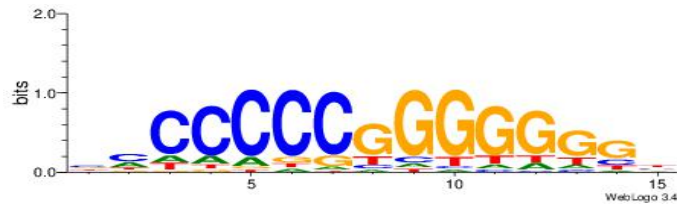
BMCCCCCGGGGGGGB
-CCCCCTTGGGCCCC

Original motif

Consensus sequence: BMCCCCCGGGGGGGB

Reverse complement motif

Consensus sequence: VCCCCCGGGGGRB

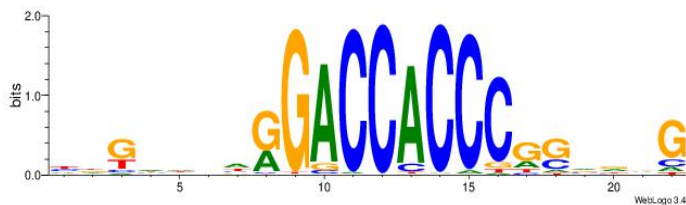


Motif ID: [UP00540](#)
 Motif name: Gli3_v016060_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0573495

Alignment:
 HDGHHBHRGACCACCCGSVDVG
 CCCCCTTGGGCCCC-----

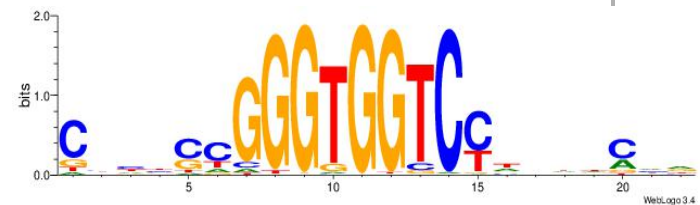
Original motif

Consensus sequence: HDGHHBHRGACCACCCGSVDVG



Reverse complement motif

Consensus sequence: CVHBSCGGGTGGTCMHVHHCDH



Motif ID: [UP00540](#)

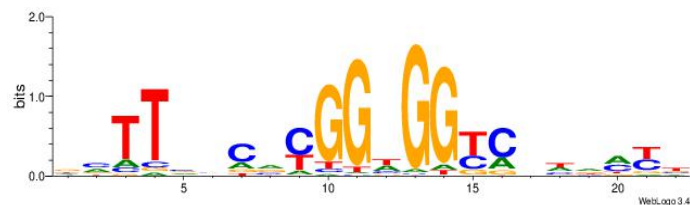
Motif name: Gli3_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 9
 Number of overlap: 14
 Similarity score: 0.0579022

Alignment:

VMYDHDGMCCCHCKBGVVAHVH
 -----CCCCCTTGGGCCCC

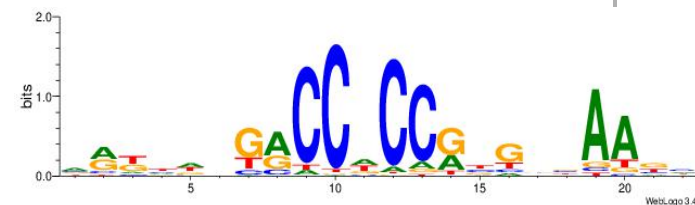
Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCCHCKBGVVAHVH

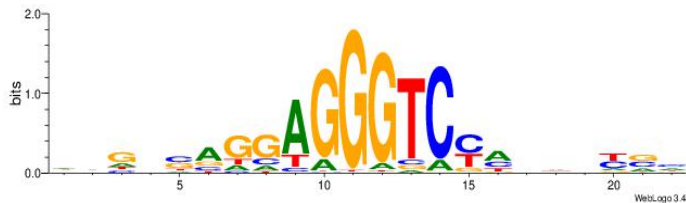


Motif ID: [UP00539](#)
 Motif name: Gli2_v015681_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 9
 Number of overlap: 14

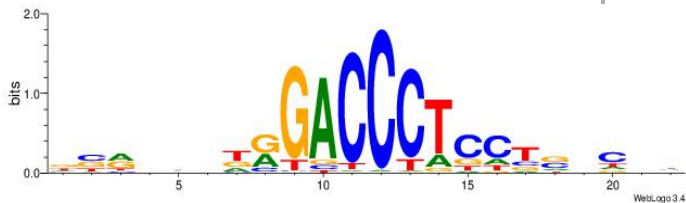
Similarity score: 0.0580662

Alignment:
DVMHHDHKGACCCTCCTSVCBH
CCCCCTTGGGCCCC-----

Original motif
Consensus sequence: HVGVSAGGAGGGTCYHHHHYVH



Reverse complement motif
Consensus sequence: DVMHHDHKGACCCTCCTSVCBH

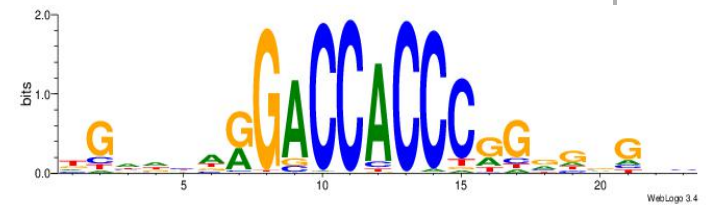
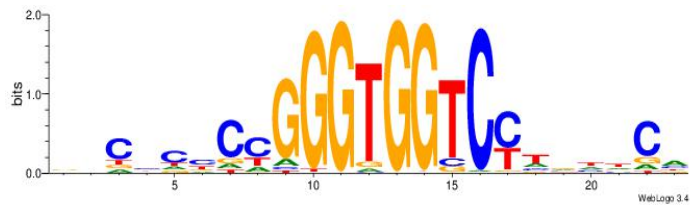


Motif ID: [UP00538](#)
Motif name: Gli1_v016060_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0597453

Alignment:
HGDHVVHKGACCACCCGGBGBGDB
-----CCCCCTTGGGCCCC

Original motif
Consensus sequence: BHCBCBCCGGGTGGTCYHVHDCH

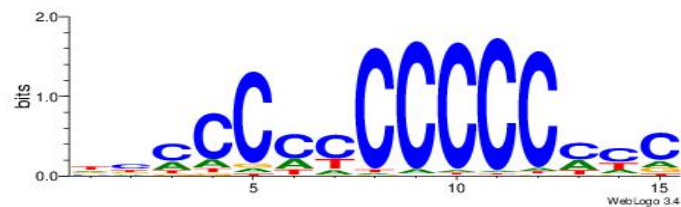
Reverse complement motif
Consensus sequence: HGDHVVHKGACCACCCGGBGBGDB



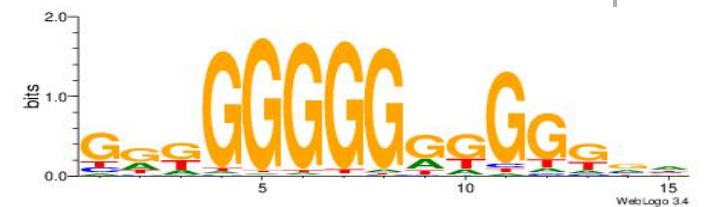
Motif ID: [UP00021](#)
 Motif name: Zfp281_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0.0598088

Alignment:
 GKRGGGGGGGGGGBD
 -CCCCCTTGGGCCCC

Original motif
 Consensus sequence: DBCCCCCCCCCMYC



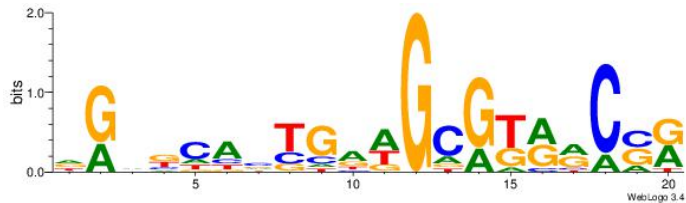
Reverse complement motif
 Consensus sequence: GKRGGGGGGGGGGBD



Dataset #: 5 **Motif ID: 55** **Motif name: Pax5**

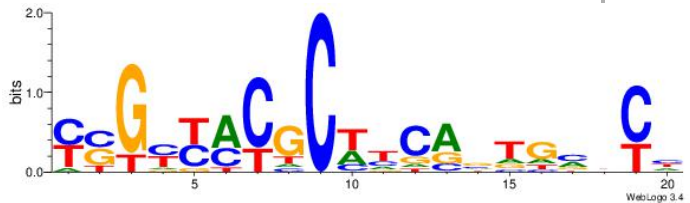
Original motif

Consensus sequence: DGVBCABTGDWGCGRRCR



Reverse complement motif

Consensus sequence: MSGKKRCGCWDCABTGBB



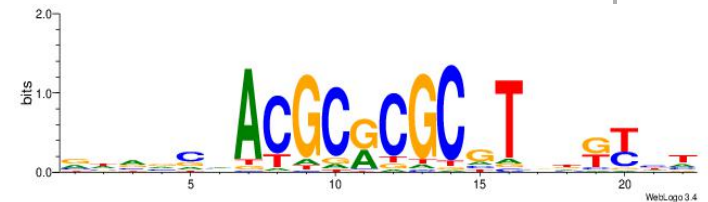
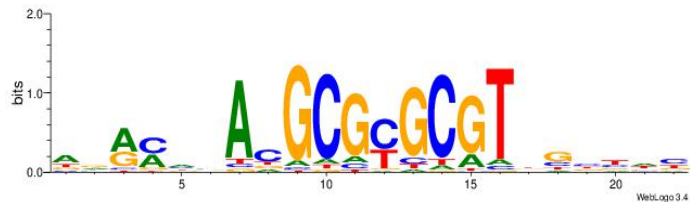
Best Matches for Motif ID 55 (Highest to Lowest)

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

Alignment:
DDRMHBACGCGYGCGTDGBBDB
-DGVBCABTGDWGCGRRCR-

Original motif
Consensus sequence: DDRMHBACGCGYGCGTDGBBDB

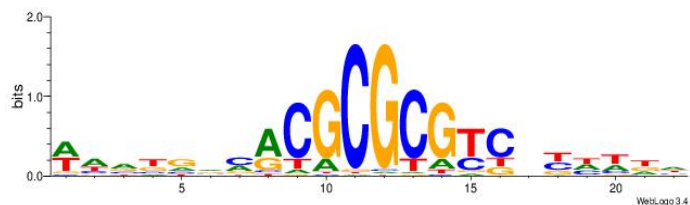
Reverse complement motif
Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



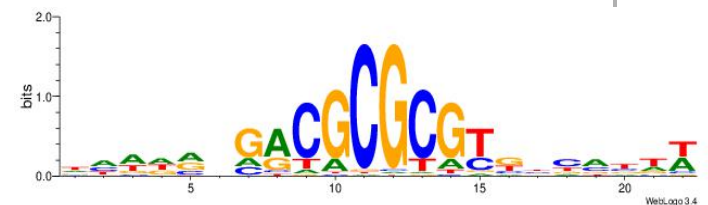
Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.0520196

Alignment:
 WHVBVVMACGCGCGTCDYHWDH
 DGVBCABTGDWGCGRRCR--

Original motif
 Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
 Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00539](#)
 Motif name: Gli2_v016060_secondary

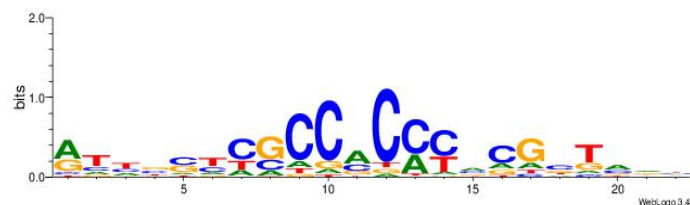
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 2
 Number of overlap: 20
 Similarity score: 0.0542764

Alignment:

HDBABCGBKRGYGGCGMSBHAK
 -DGVBCABTGDWGCGRRCR-

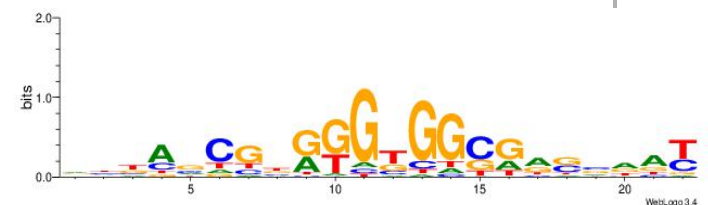
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



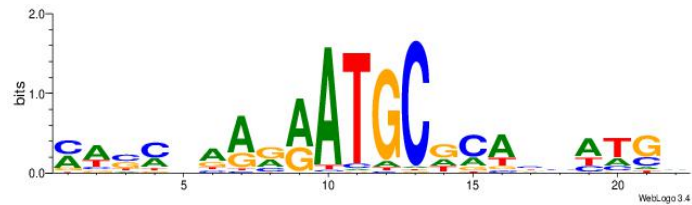
Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 20
 Similarity score: 0.0560636

Alignment:

DCATDBTGHGCATKMTTBRSWR
--MSGKKRCGCWDCABTGBCD

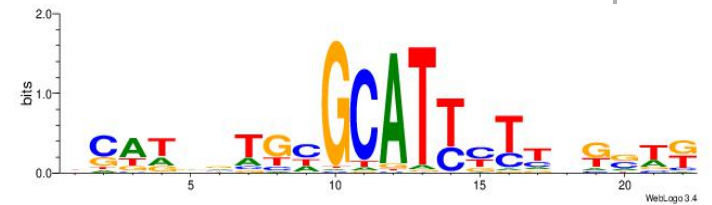
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



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

Alignment:

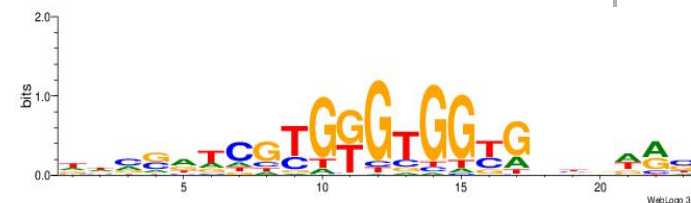
HHBSHTCGTGRGTGGKGDBVWMV
DGVBCABTGDWCGKRRCSR---

Original motif

Consensus sequence: VYWVVHCRCCACMCACGAHSBHH

Reverse complement motif

Consensus sequence: HHBSHTCGTGRGTGGKGDBVWMV



Alignment:

```
HADTBVADGATGCATCMTGMVHB
DGVCABTGDWGCGRCSR---
```

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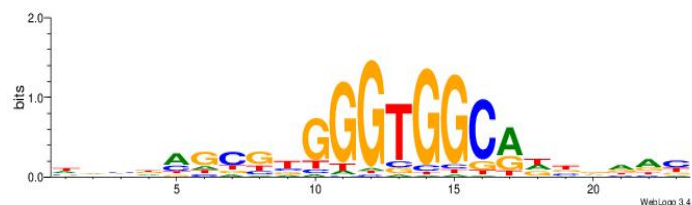
Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0607506

Alignment:

HVBDAGCGBGGGTGGCRDBDDDB
 DGVBCABTGDWGCGRRCR---

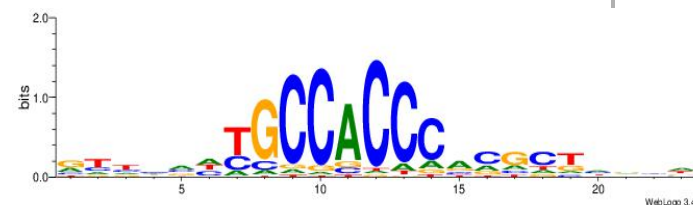
Original motif

Consensus sequence: HVBDAGCGBGGGTGGCRDBDDDB



Reverse complement motif

Consensus sequence: BDDHVDKGCCACCCVCGCTDBVH



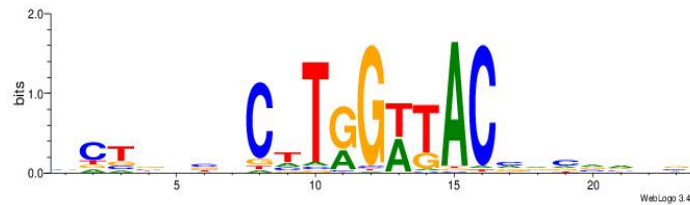
Motif ID: [UP00098](#)
 Motif name: Rfx3_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 20
 Similarity score: 0.0611227

Alignment:

BDBBVBVGTAWCCAAGVBHBAGB
MSGKKRCGCWDCABTGBBCD---

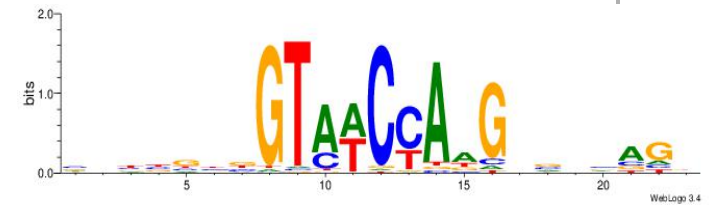
Original motif

Consensus sequence: VCTBHBVCTTGGWTACVVVVVDB



Reverse complement motif

Consensus sequence: BDBBVBVGTAWCCAAGVBHBAGB



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

Alignment:

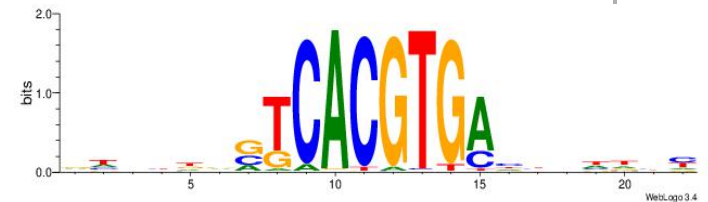
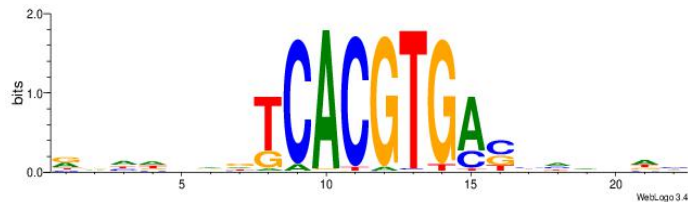
RDHDBVDTACGTGASBHVHDH
--MSGKKRCGCWDCABTGBBCD

Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHDH

Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHMH



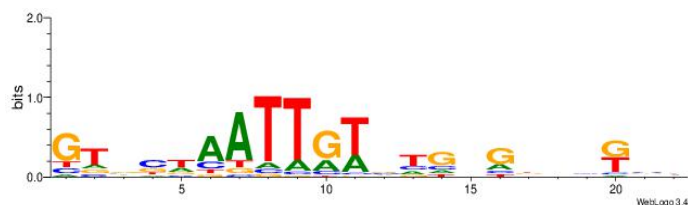
Motif ID: [UP00034](#)
 Motif name: Sox7_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 20
 Similarity score: 0.061403

Alignment:

GTVBDAATTGTVTGHGDDHKVB
 DGVBCABTGDWGCGRRCR--

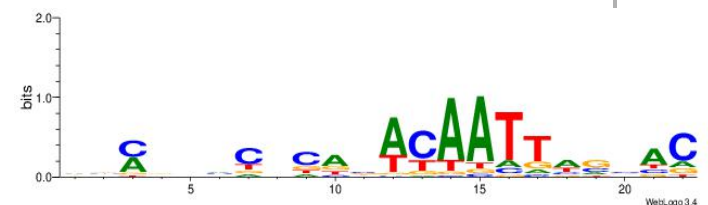
Original motif

Consensus sequence: GTVBDAATTGTVTGHGDDHKVB



Reverse complement motif

Consensus sequence: VVYDDDCHCAVACAATTDBVAC



Dataset #: 5 **Motif ID: 56** **Motif name: ArntAhr**

Original motif

Consensus sequence: YGCGTG



Reverse complement motif

Consensus sequence: CACGCM



Best Matches for Motif ID 56 (Highest to Lowest)

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

Alignment:

VVVDHHTGCGYGGGCGDHHVHHTB

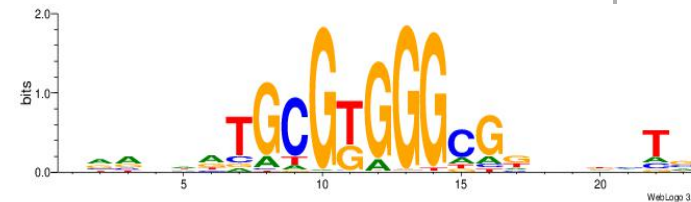
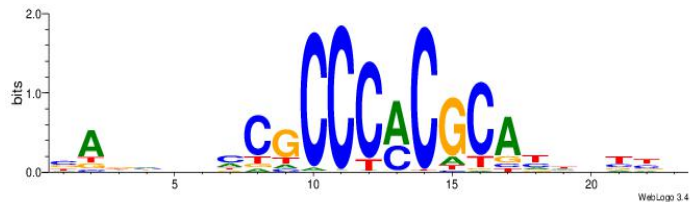
-----YGCGTG-----

Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV

Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHHVHHTB

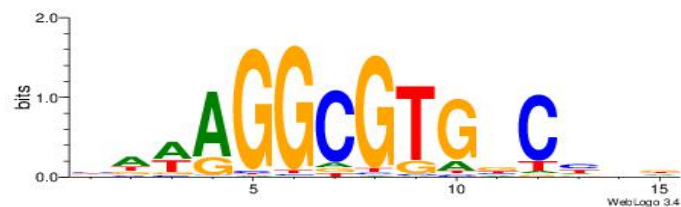


Motif ID: [UP00002](#)
 Motif name: Sp4_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.00183587

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

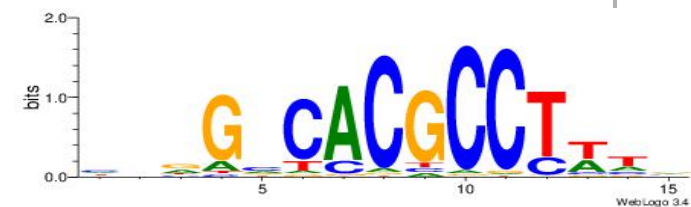
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: [UP00060](#)

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

Alignment:

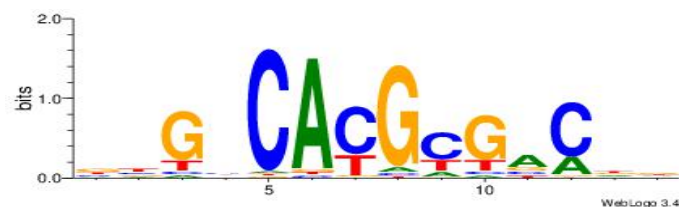
```

HDGTCGCGTGDCVB
----YGCGTG-----

```

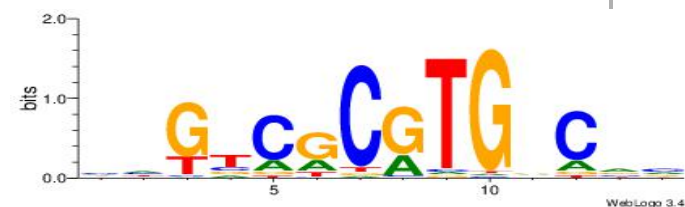
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB

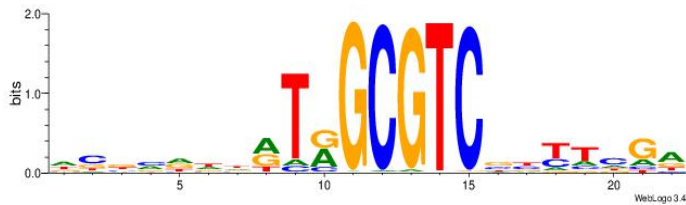


Motif ID:	UP00527
Motif name:	Foxn4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	6

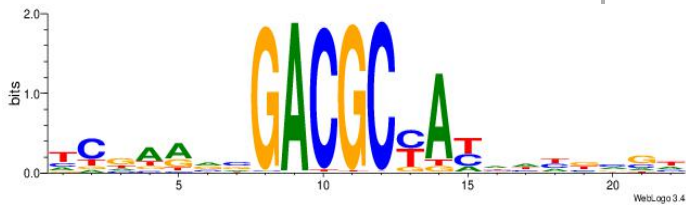
Similarity score: 0.00526158

Alignment:
TCDAMVBGACGCMACDDDVBBB
-----CACGCM-----

Original motif
Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif
Consensus sequence: TCDAMVBGACGCMACDDDVBBB

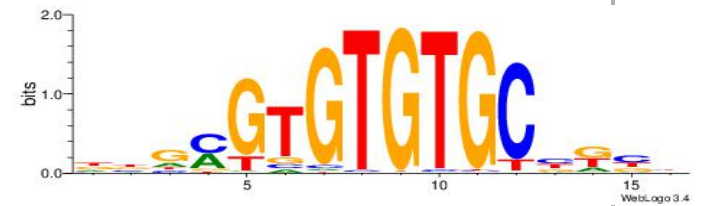


Motif ID: [UP00042](#)
Motif name: Gm397_second
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 6
Similarity score: 0.00558171

Alignment:
HBGYGTGTGTGCVRVD
---YGCGTG-----

Original motif
Consensus sequence: DVMVGCACACACKCVH

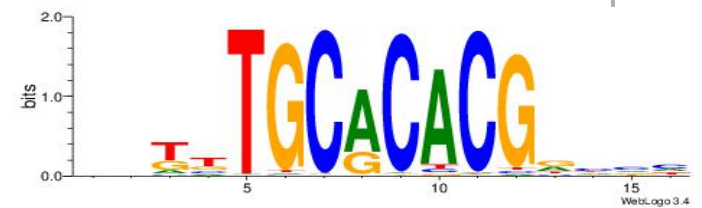
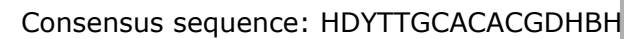
Reverse complement motif
Consensus sequence: HBGYGTGTGTGCVRVD



Alignment:

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

Consensus sequence: DBDHCGTGTGCAAMDH



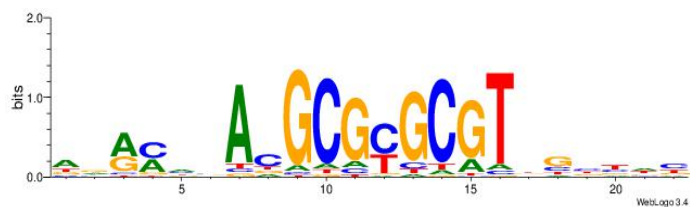
Motif ID: [UP00526](#)
 Motif name: Foxn1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 8
 Number of overlap: 6
 Similarity score: 0.0123233

Alignment:

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

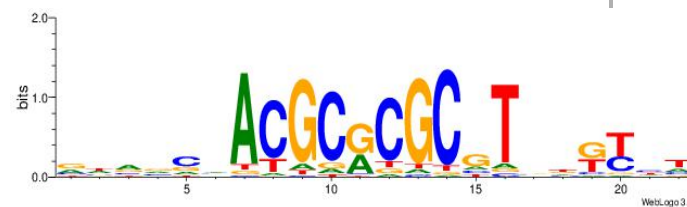
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



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

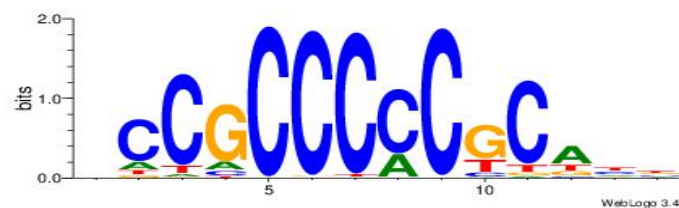
Number of overlap: 6
Similarity score: 0.0141579

Alignment:

HCCGCCCCCGCAHB
-----CACGCM--

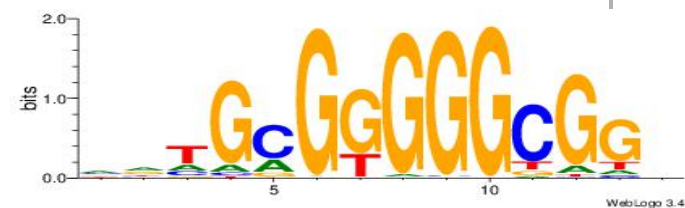
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



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

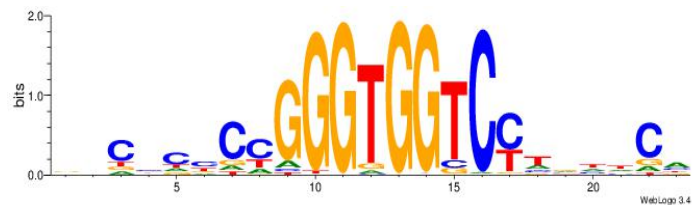
Alignment:

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

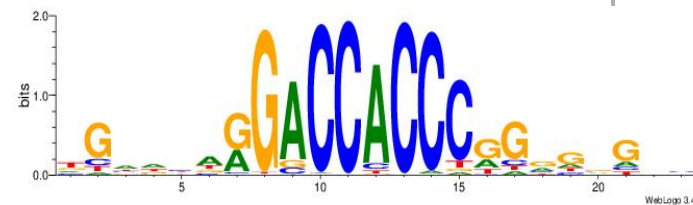
Original motif

Reverse complement motif

Consensus sequence: BHCBCBCCGGGTGGTCYHVDCH



Consensus sequence: HGDHVHKGACCACCCGGBGBGDB



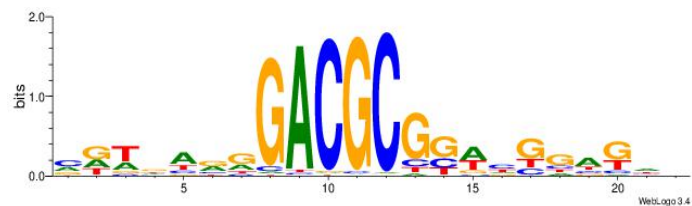
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 6
Similarity score: 0.0172109

Alignment:

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

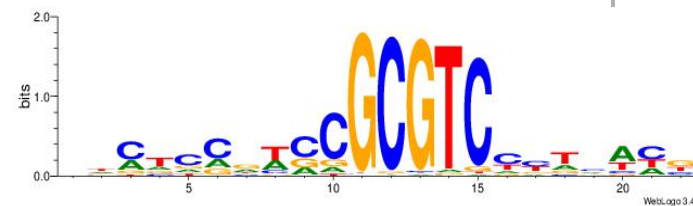
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 5 **Motif ID: 57** **Motif name: Mycn**

Original motif

Consensus sequence: HSCACGTGGC



Reverse complement motif

Consensus sequence: GCCACGTGSD



Best Matches for Motif ID 57 (Highest to Lowest)

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

Alignment:

DDASCACGTGBTBVDD

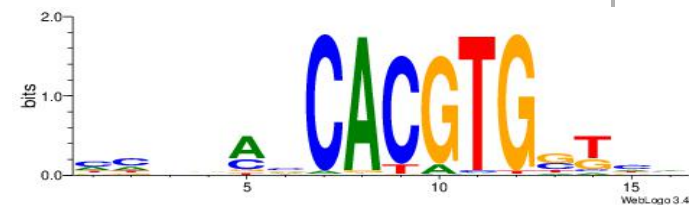
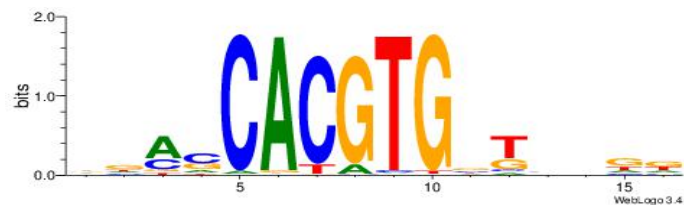
--HSCACGTGGC----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

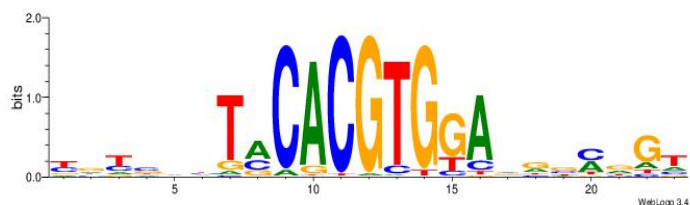


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00783793

Alignment:
 ACHRBHDTCCACGTGYAHBMMH
 -----GCCACGTGSD-----

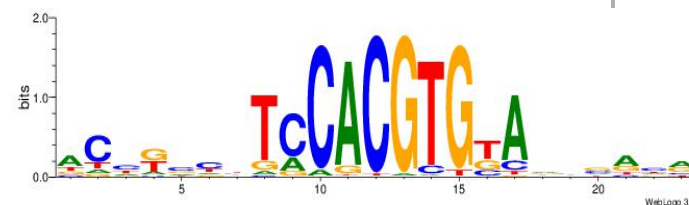
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

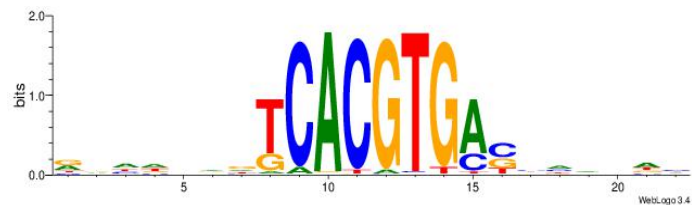
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.0132858

Alignment:

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

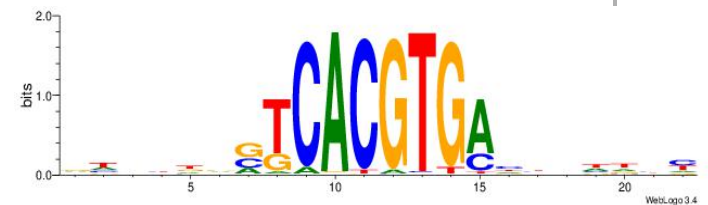
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



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

Similarity score: 0.0227933

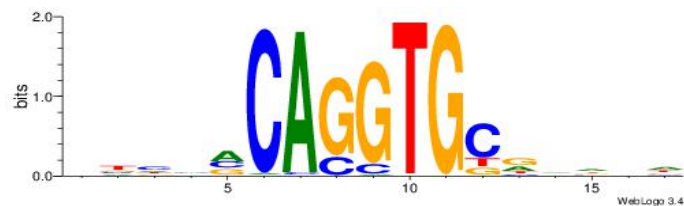
Alignment:

VBHHVCAGGTGCDVDHD

---GCCACGTGSD----

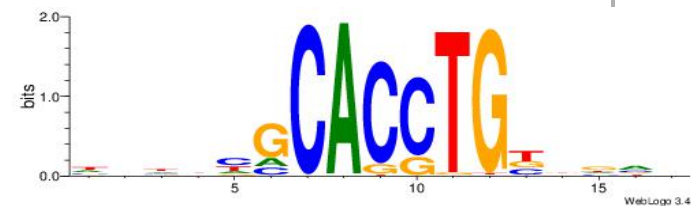
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

BBGHCACGCGACDD

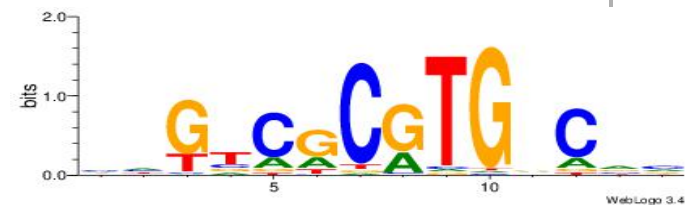
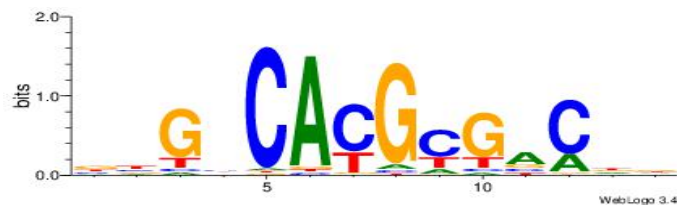
--HSCACGTGGC--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



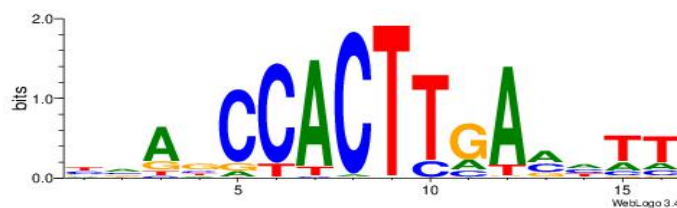
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0344833

Alignment:

BVABCCACTTGAMHTT
 ---GCCACGTGSD---

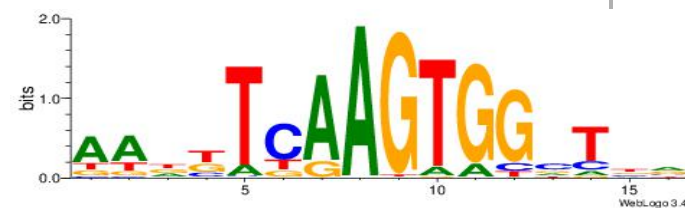
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



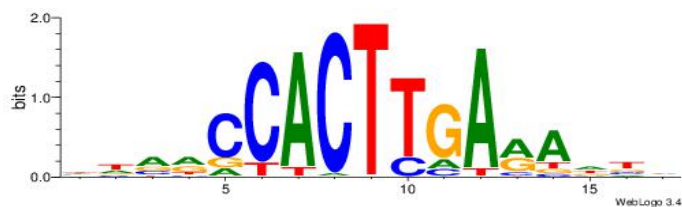
Motif ID: [UP00231](#)
 Motif name: Nkx2-2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 10
 Similarity score: 0.035228

Alignment:

HDVRCCACTTGARADBD
 ---GCCACGTGSD----

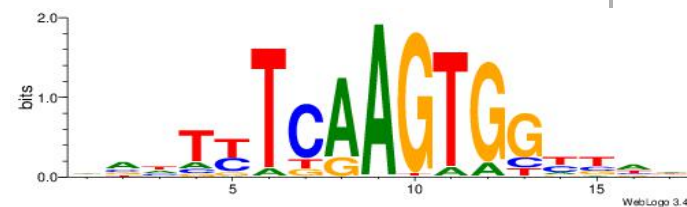
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DTDTKTCAAGTGGKBDH



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

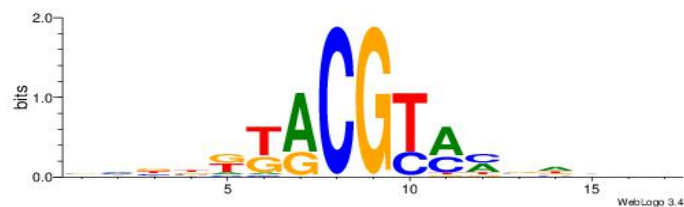
Number of overlap: 10
Similarity score: 0.0358581

Alignment:

BVVDVRYACGTRYVBHB
----GCCACGTGSD---

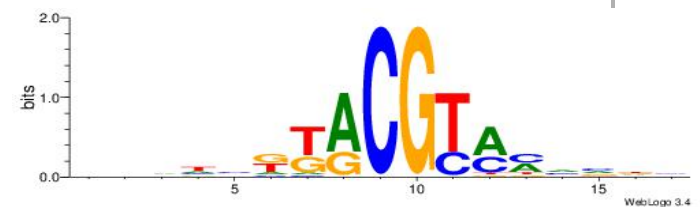
Original motif

Consensus sequence: BHBBKKACGTMMVDBVB



Reverse complement motif

Consensus sequence: BVVDVRYACGTRYVBHB



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

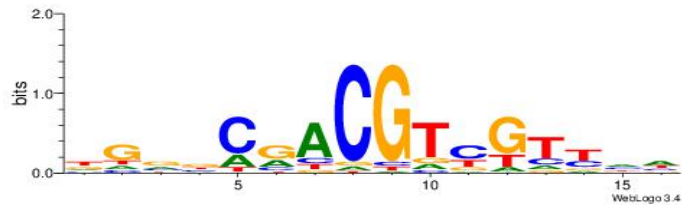
Alignment:

HHMACKACGTMGBVCD
---HSCACGTGGC---

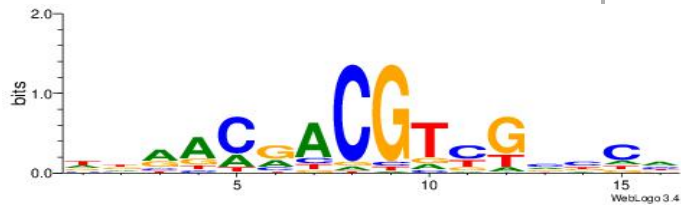
Original motif

Reverse complement motif

Consensus sequence: DGVBCRACGTYGTYYH



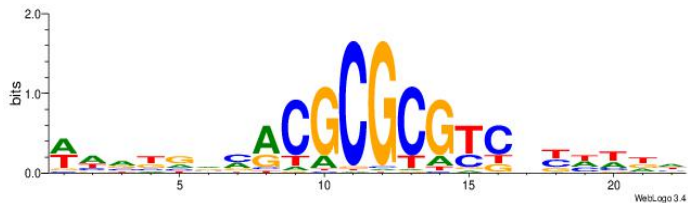
Consensus sequence: HHMACKACGTMGBVCD



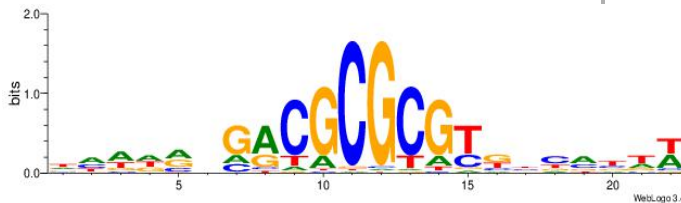
Motif ID: [UP00526](#)
Motif name: Foxn1_primary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0383187

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

Original motif
Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif
Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Dataset #: 5 **Motif ID: 58** **Motif name: Myc**

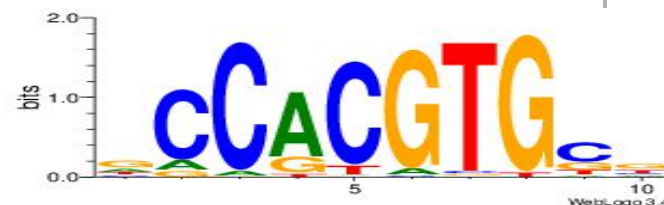
Original motif

Consensus sequence: VGCACGTGGH



Reverse complement motif

Consensus sequence: DCCACGTGCV



Best Matches for Motif ID 58 (Highest to Lowest)

Motif ID:	UP00060
Motif name:	Max_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0

Alignment:

DDASCACGTGBTBVDD

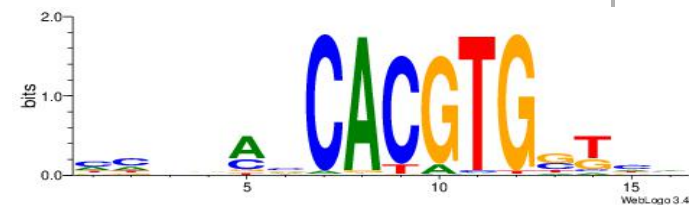
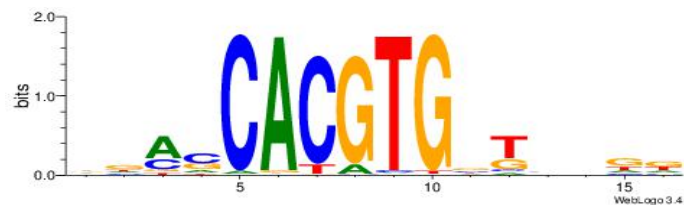
--VGCACGTGGH----

Original motif

Consensus sequence: DDASCACGTGBTBVDD

Reverse complement motif

Consensus sequence: HHVBABCACGTGSTHD

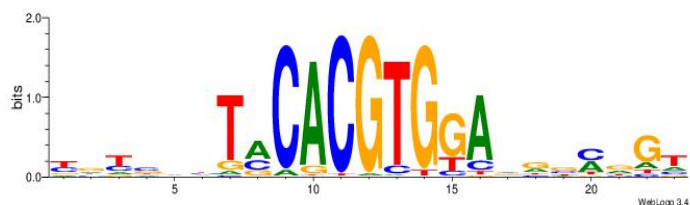


Motif ID: [UP00050](#)
 Motif name: Bhlhb2_secondary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 10
 Similarity score: 0.00631885

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

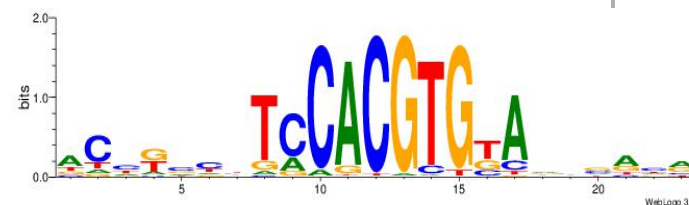
Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHBMMH



Motif ID: [UP00050](#)

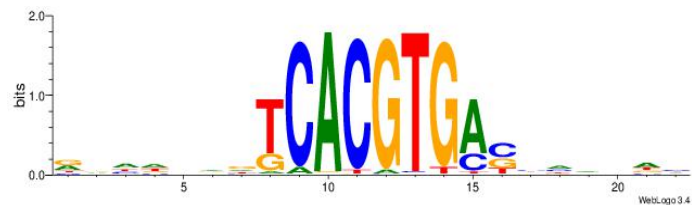
Motif name: Bhlhb2_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 10
 Similarity score: 0.00821668

Alignment:

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

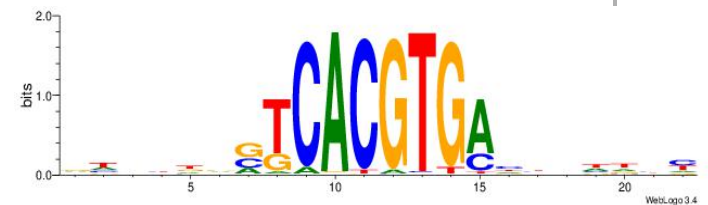
Original motif

Consensus sequence: RDHDBVDTACGTGASBHVHHDH



Reverse complement motif

Consensus sequence: DDHBHBSTCACGTGAHBBDHHM



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

Similarity score: 0.0140005

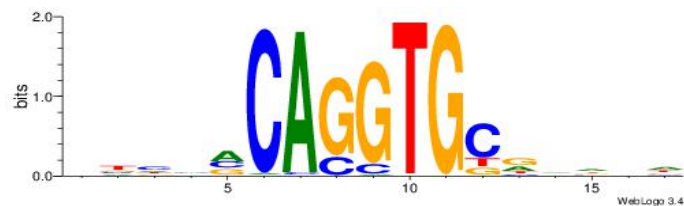
Alignment:

DHDBHGCACCTGBDDVB

----VGCACGTGGH----

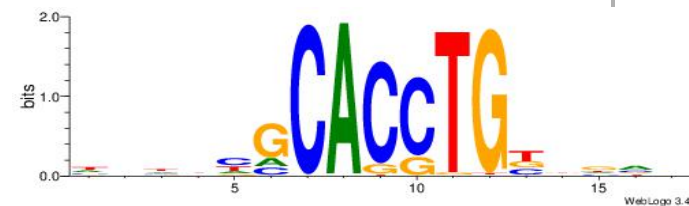
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



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

Alignment:

BBGHCACGCGACDD

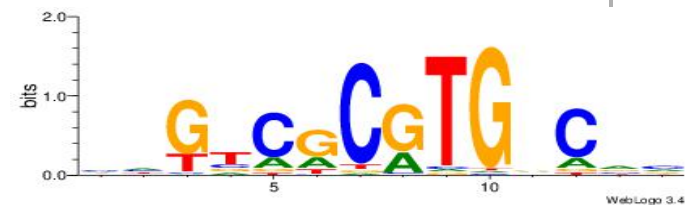
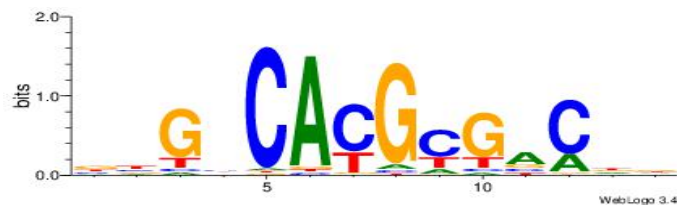
--VGCACGTGGH--

Original motif

Consensus sequence: BBGHCACGCGACDD

Reverse complement motif

Consensus sequence: HDGTGCGGTGDCVB



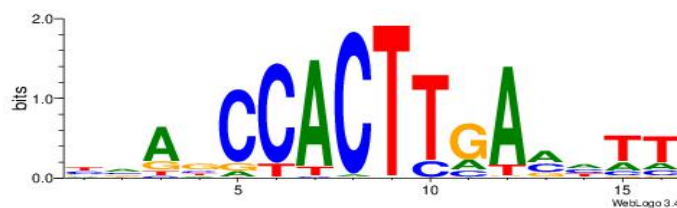
Motif ID: [UP00165](#)
 Motif name: Titf1
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.0311723

Alignment:

BVABCCACTTGAMHTT
 ---DCCACGTGCV---

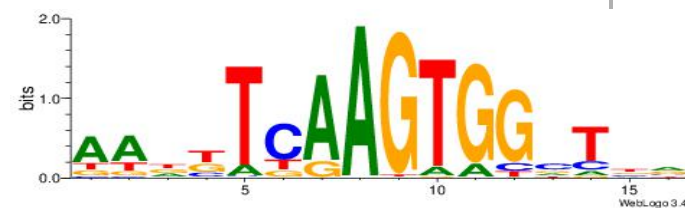
Original motif

Consensus sequence: BVABCCACTTGAMHTT



Reverse complement motif

Consensus sequence: AAHYTCAAGTGGBTBV



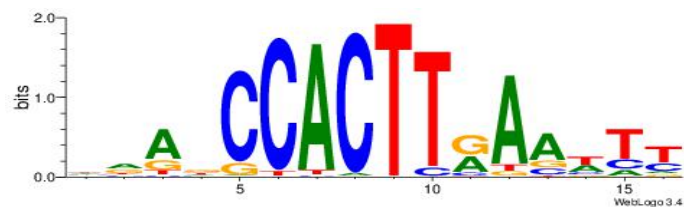
Motif ID: [UP00249](#)
 Motif name: Nkx2-5
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 4
 Number of overlap: 10
 Similarity score: 0.031308

Alignment:

HDADCCACTTTRAAWTT
 ---DCCACGTGCV---

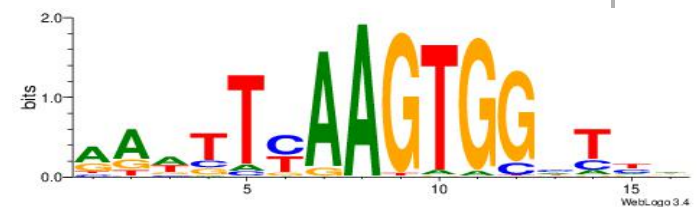
Original motif

Consensus sequence: HDADCCACTTTRAAWTT



Reverse complement motif

Consensus sequence: AAWTTMAAGTGGHTDH



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

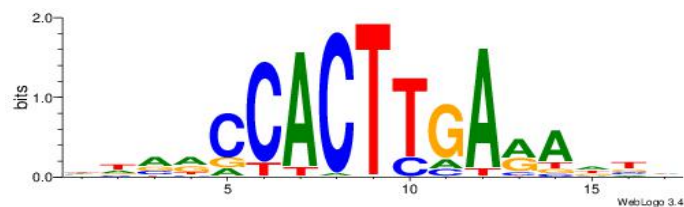
Number of overlap: 10
Similarity score: 0.0334845

Alignment:

HDVRCCACTTGARADBD
---DCCACGTGCV----

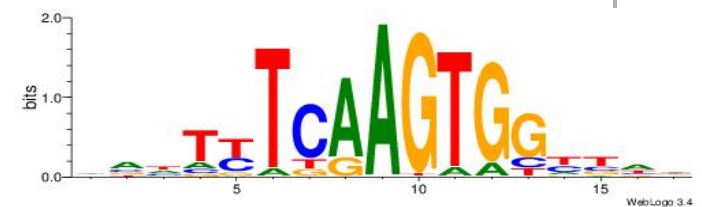
Original motif

Consensus sequence: HDVRCCACTTGARADBD



Reverse complement motif

Consensus sequence: DVDTKTCAAGTGGKBDH



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

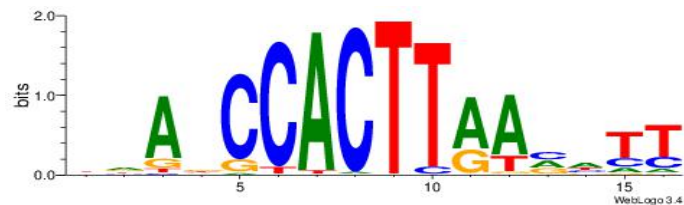
Alignment:

DDADCCACTTAAVHTT
---DCCACGTGCV---

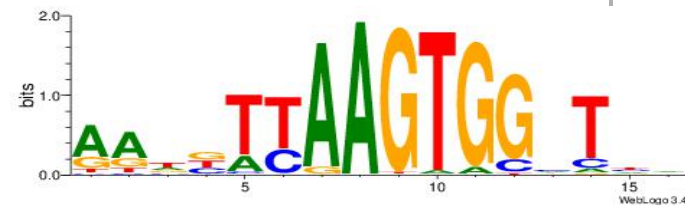
Original motif

Reverse complement motif

Consensus sequence: DDADCCACTTAHVHTT



Consensus sequence: AAHVTTAAGTGGHTDD



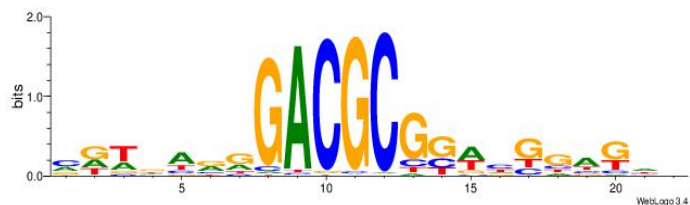
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0363818

Alignment:

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

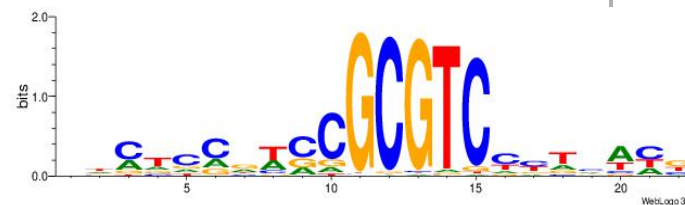
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 5 **Motif ID: 59** **Motif name: GABPA**

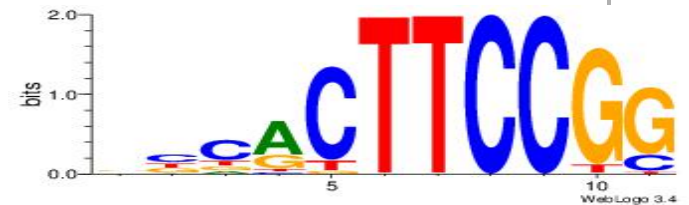
Original motif

Consensus sequence: CCGGAAGTGVV



Reverse complement motif

Consensus sequence: VVCACTTCCGG



Best Matches for Motif ID 59 (Highest to Lowest)

Motif ID:	UP00013
Motif name:	Gabpa_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0

Alignment:

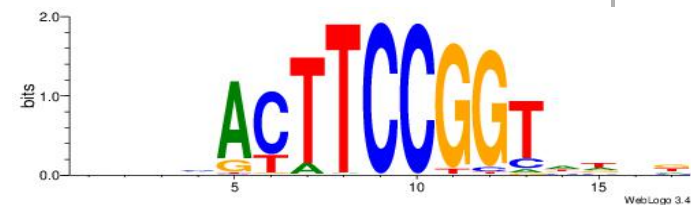
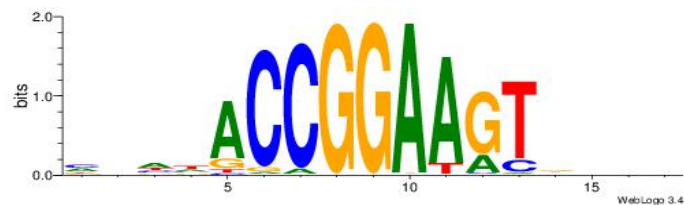
```
BHHHACTTCCGGTHHBD
-VVCACTTCCGG-----
```

Original motif

Consensus sequence: HVHHACCGGAAGTDHHV

Reverse complement motif

Consensus sequence: BHHHACTTCCGGTHHBD

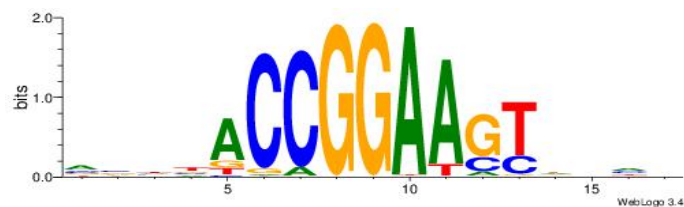


Motif ID: [UP00410](#)
 Motif name: Elk1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.000136484

Alignment:
 VVHBACCGGAAGTDBHD
 -----CCGGAAGTGVV-

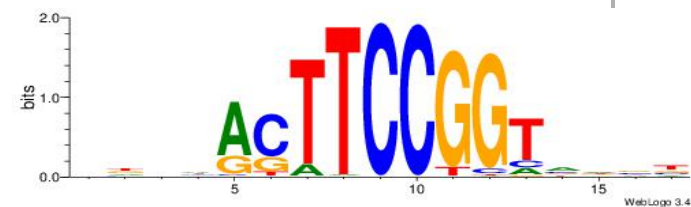
Original motif

Consensus sequence: VVHBACCGGAAGTDBHD



Reverse complement motif

Consensus sequence: DHBDACTTCCGGTVHVB



Motif ID: [UP00420](#)

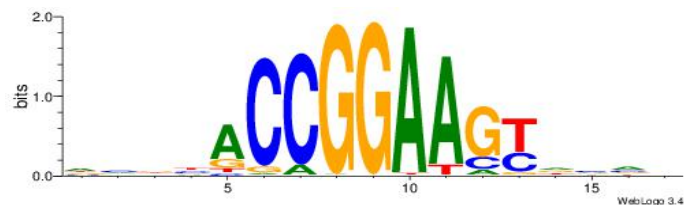
Motif name: Elk3
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000219706

Alignment:

DVBBACCGGAAGYDVVV
 -----CCGGAAGTGVV-

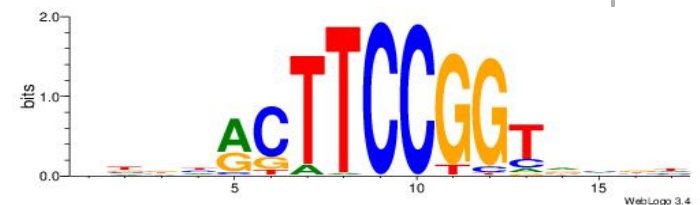
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD



Motif ID: [UP00421](#)
 Motif name: Etv1
 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: 0.000932023

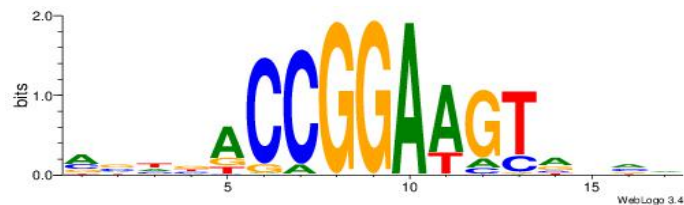
Alignment:

MVHBACCGGAAGTVDVH

-----CCGGAAGTGVV-

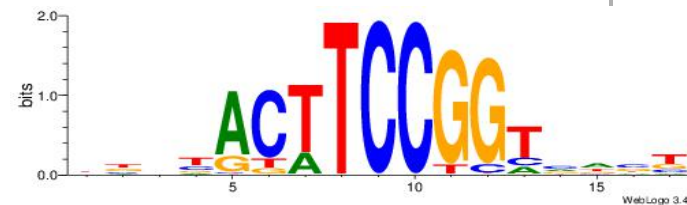
Original motif

Consensus sequence: MVHBACCGGAAGTVDVH



Reverse complement motif

Consensus sequence: HBDBACTTCCGGTBHVY



Motif ID: [UP00404](#)
Motif name: Elf2
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.00527483

Alignment:

DBBHACTTCCGGDWDB

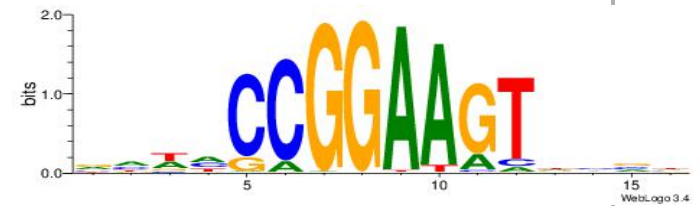
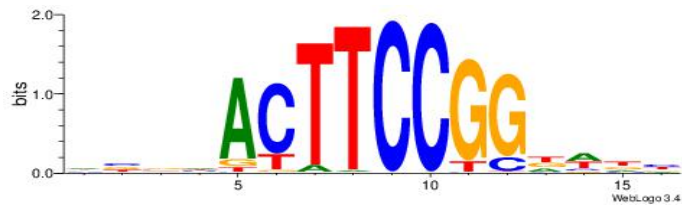
-VVC ACTTCCGG----

Original motif

Consensus sequence: DBBHACTTCCGGDWDB

Reverse complement motif

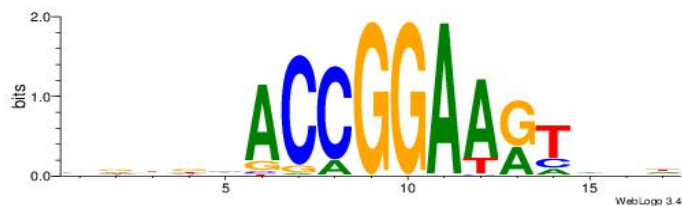
Consensus sequence: BDWDCCGGAAGTHBBD



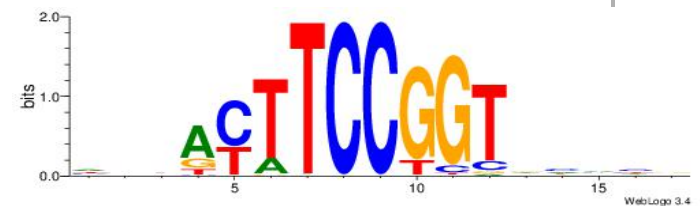
Motif ID: [UP00414](#)
 Motif name: Ets1
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 7
 Number of overlap: 11
 Similarity score: 0.00805613

Alignment:
 BDDDHACCGGAARTVDD
 -----CCGGAAGTGVV

Original motif
 Consensus sequence: BDDDHACCGGAARTVDD



Reverse complement motif
 Consensus sequence: DDBAMTTCCGGTDHDB



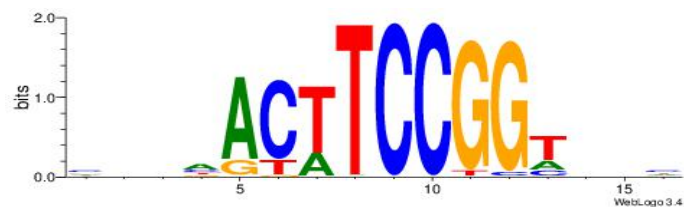
Motif ID: [UP00423](#)
 Motif name: Gm5454
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 2
 Number of overlap: 11
 Similarity score: 0.00933976

Alignment:

VDDHACTTCCGGTHVH
 -VCACTTCCGG-----

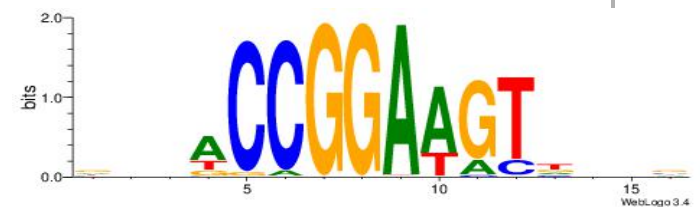
Original motif

Consensus sequence: VDDHACTTCCGGTHVH



Reverse complement motif

Consensus sequence: DVHACCGGAAGTHDDV



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: 5

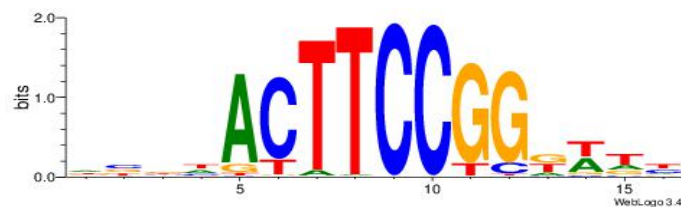
Number of overlap: 11
Similarity score: 0.00992792

Alignment:

DBBHACTTCCGGKWTH
-VVCACTTCCGG----

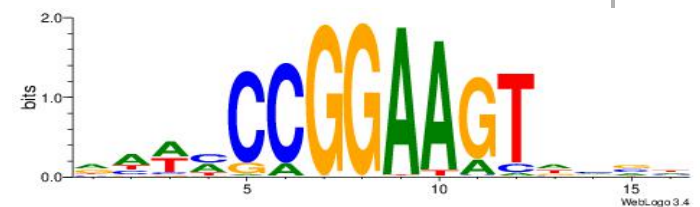
Original motif

Consensus sequence: DBBHACTTCCGGKWTH



Reverse complement motif

Consensus sequence: HAWYCCGGAAGTHBBD



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: 5
Number of overlap: 11
Similarity score: 0.0114183

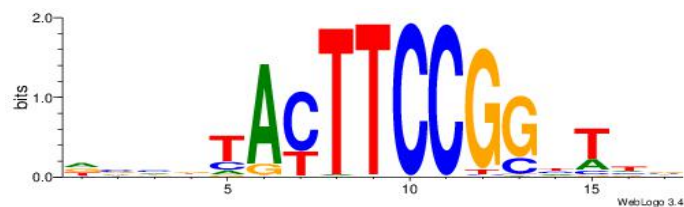
Alignment:

DVHBTACTTCCGGHTHB
--VVCACTTCCGG----

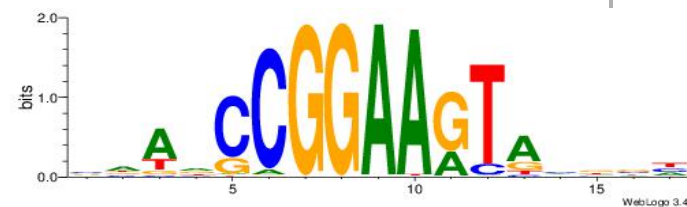
Original motif

Reverse complement motif

Consensus sequence: DVHBTACTTCCGGHTHB



Consensus sequence: BHAHCCGGAAGTABDVD



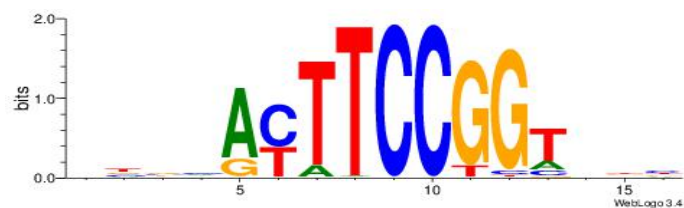
Motif ID: [UP00411](#)
Motif name: Erg
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0122484

Alignment:

BDDACCGGAAKTVBVB
-----CCGGAAGTGVV--

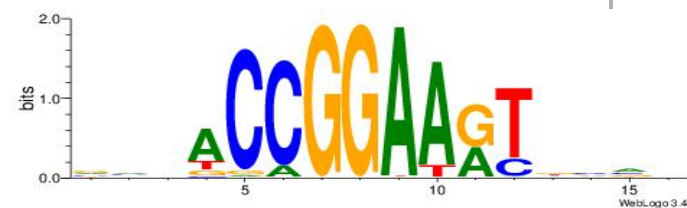
Original motif

Consensus sequence: VBBVAYTTCCGGTDDB



Reverse complement motif

Consensus sequence: BDDACCGGAAKTVBVB



Results created by MOTIFSIM on 06-18-2018 14:32:36
Runtime: 695.758 seconds

MOTIFSIM is written by Ngoc Tam L. Tran
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