



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	2
Number of top significant motifs:	10
Number of best matches:	5
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
W-ChIPMotifs_DM230.txt	11	1
RSAT_peak-motifs_DM230.txt	10	2

RESULTS

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

Dataset #: 1 **Motif ID: 1** **Motif name: TFW1**

Original motif

Consensus sequence: GTCGCG



Reverse complement motif

Consensus sequence: CGCGAC



Best Matches for Motif ID 1 (Highest to Lowest)

Motif ID:	UP00065
Motif name:	Zfp161_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	6
Similarity score:	0

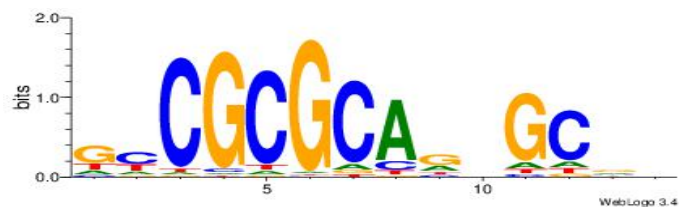
Alignment:

GYCGCGCARBGCVB

GTCGCG-----

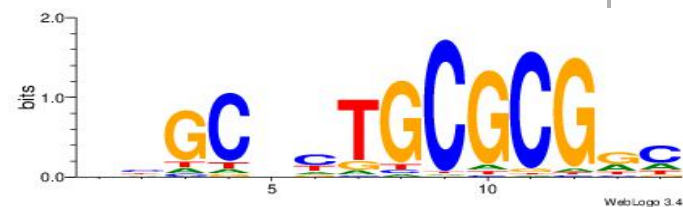
Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



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:

3

Number of overlap:

6

Similarity score:

0.00875457

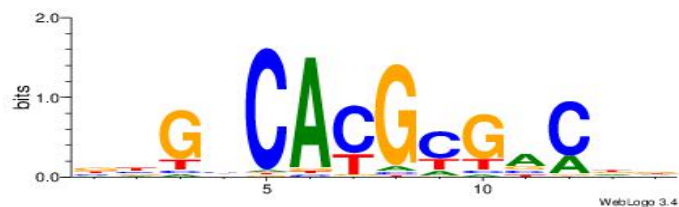
Alignment:

BBGHCACGCGACDD

-----CGCGAC--

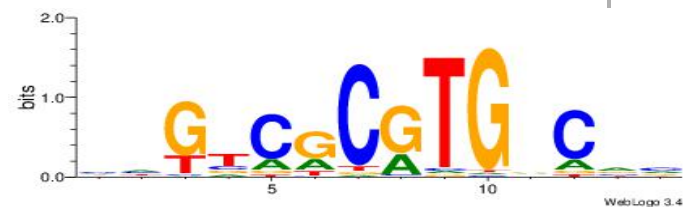
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



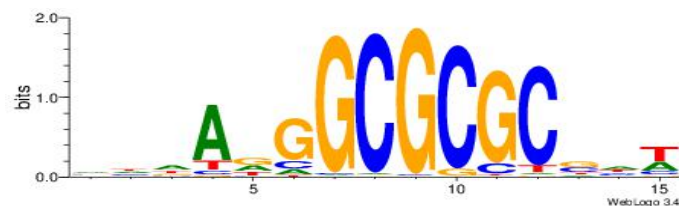
Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 6
 Number of overlap: 6
 Similarity score: 0.0102952

Alignment:

W H S G C G C G C C H T D H B
 - - - - C G C G A C - - - - -

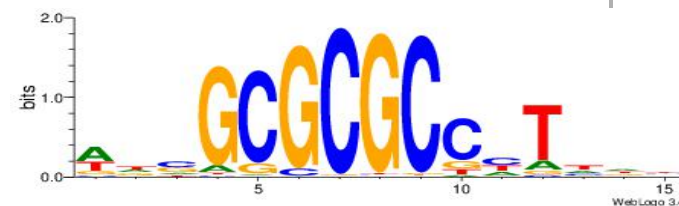
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: W H S G C G C G C C H T D H B



Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward

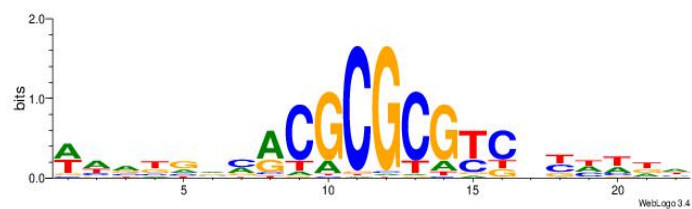
Position number: 7
Number of overlap: 6
Similarity score: 0.0119605

Alignment:

WHVBVVMACGCGCGTCDYHWDH
-----CGCGAC-----

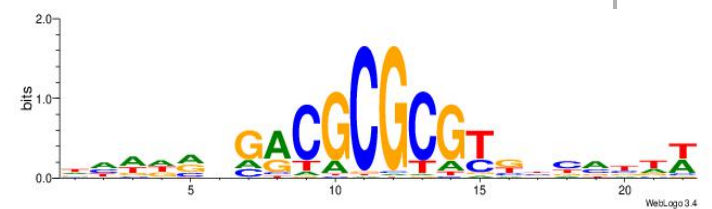
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



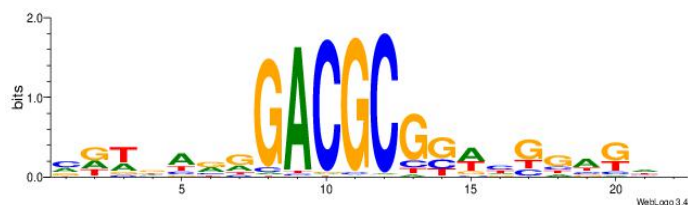
Motif ID: [UP00527](#)
Motif name: Foxn4_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 6
Similarity score: 0.014366

Alignment:

VDWDARRGACGCGGWHGGAHV
-----GTCGCG-----

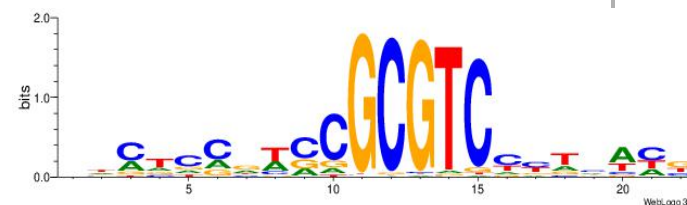
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAHV



Reverse complement motif

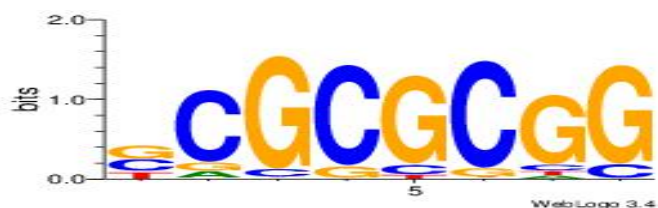
Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



Dataset #: 1 Motif ID: 2 Motif name: TFW2

Original motif

Consensus sequence: SCGCGCGG



Reverse complement motif

Consensus sequence: CCGCGCGS



Best Matches for Motif ID 2 (Highest to Lowest)

Motif ID:	UP00526
Motif name:	Foxn1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0

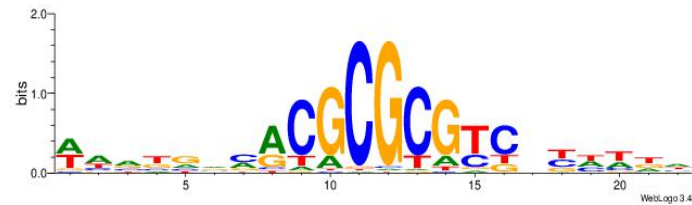
Alignment:

HDWHMHGACGCGCGTRBVVBHW

-----CCGCGCGS-----

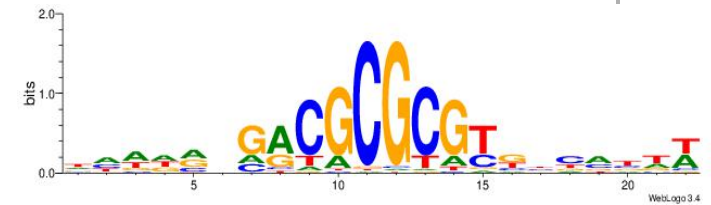
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID:

[UP00065](#)

Motif name:

Zfp161_secondary

Species:

Mus musculus

Matching format of first motif:

Reverse Complement

Matching format of second motif:

Reverse Complement

Direction:

Backward

Position number:

2

Number of overlap:

8

Similarity score:

0.00228411

Alignment:

VVGCVMTCGCGKC

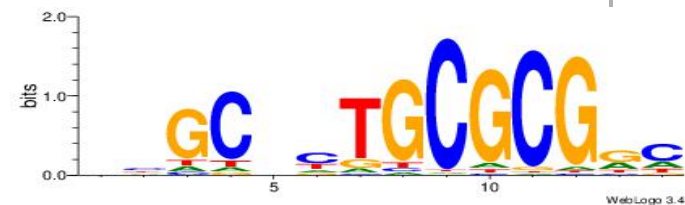
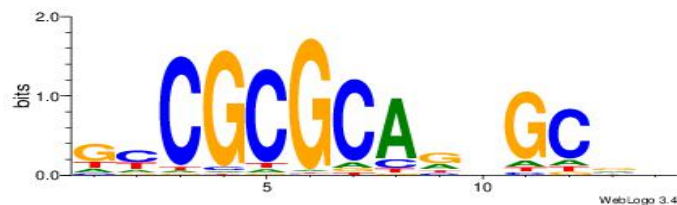
-----CCGCGCGS--

Original motif

Consensus sequence: GYCGCGCARBGCVB

Reverse complement motif

Consensus sequence: VVGCVMTCGCGKC

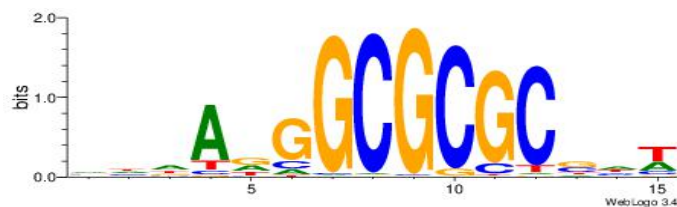


Motif ID: [UP00003](#)
 Motif name: E2F3_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 7
 Number of overlap: 8
 Similarity score: 0.00337853

Alignment:
 W H S G C G C G C C H T D H B
 - C C G C G C G S - - - - -

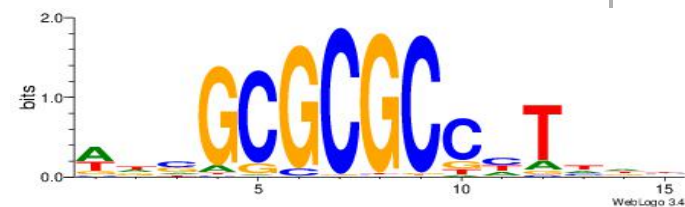
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: W H S G C G C G C C H T D H B



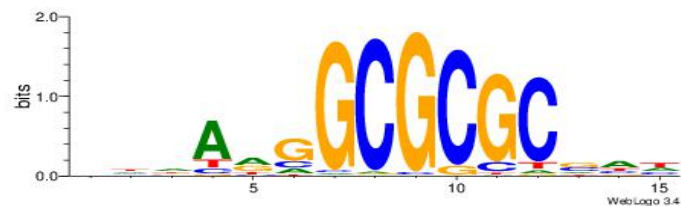
Motif ID: [UP00001](#)

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: 2
 Number of overlap: 8
 Similarity score: 0.00399923

Alignment:
 HHVGC GCGCCKTDHB
 -CCGCGCGS-----

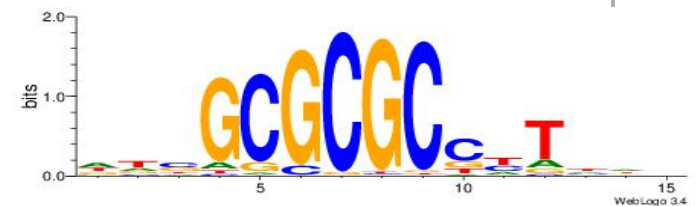
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGC GCGCCKTDHB



Motif ID: [UP00065](#)
 Motif name: Zfp161_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: 8

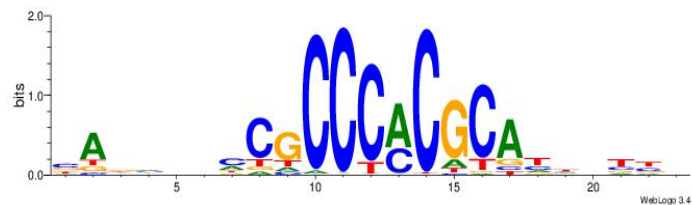
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0331859

Alignment:

```
VVVDHHTGCGYGGGCGDHSVHHTB
-----CGCGBMGCCG-----
```

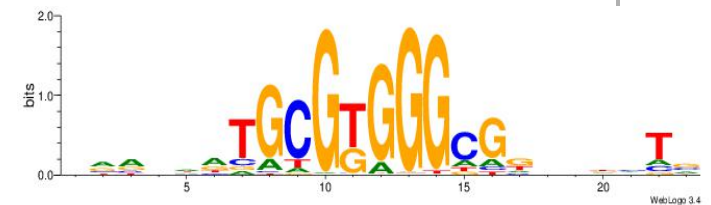
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDDBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHSVHHTB



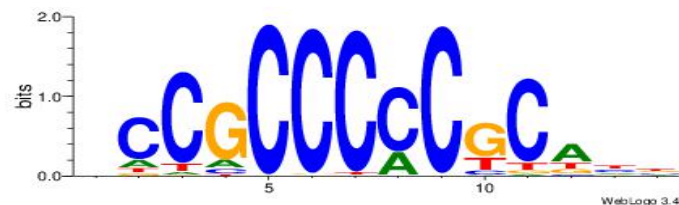
Motif ID:	UP00007
Motif name:	Egr1_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0342114

Alignment:

HCCGCCCCCGCAHB
 --CGGCYBCGCG--

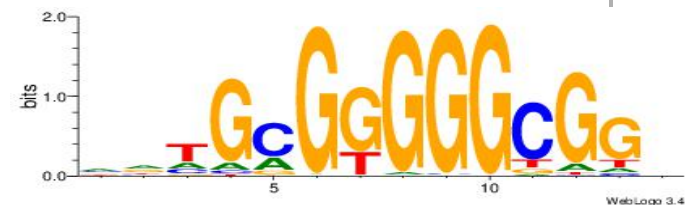
Original motif

Consensus sequence: HCCGCCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID:	UP00527
Motif name:	Foxn4_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	10
Similarity score:	0.0356548

Alignment:

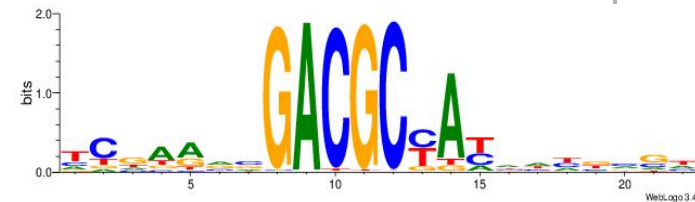
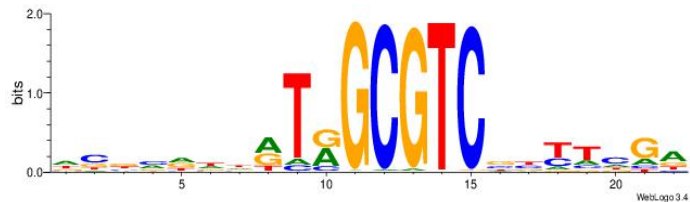
DBBVDDDRTRGCGTCBBYTHGA
 -----CGGCYBCGCG--

Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA

Reverse complement motif

Consensus sequence: TCDAMVBGACGCMAKDDDVBBDD

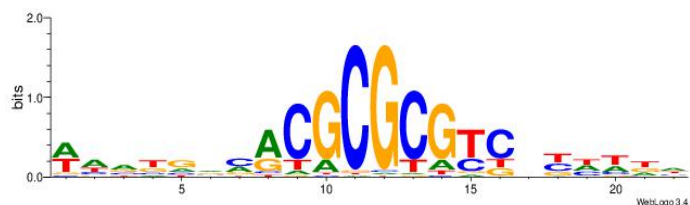


Motif ID: [UP00526](#)
 Motif name: Foxn1_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 11
 Number of overlap: 10
 Similarity score: 0.041792

Alignment:
 HDWHMHGACGCGCGTRBVVBHW
 -----CGCGBMGCCG--

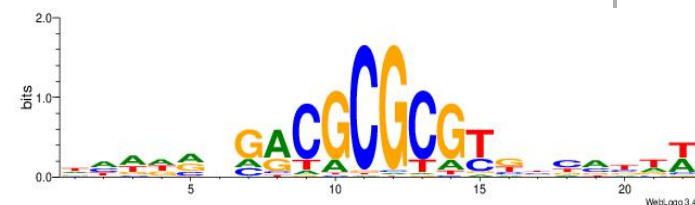
Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW



Motif ID: [UP00065](#)

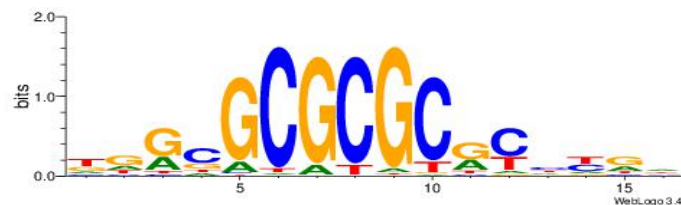
Motif name: Zfp161_primary
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 2
 Number of overlap: 10
 Similarity score: 0.041904

Alignment:

DDGCGCGCGCRCHYRD
 -----CGCGBMGCCG--

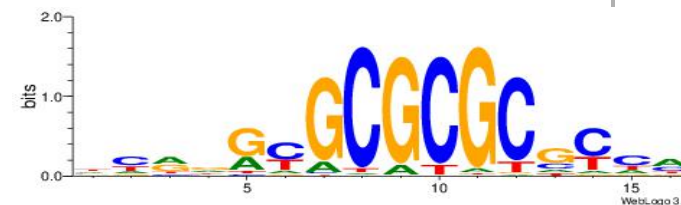
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



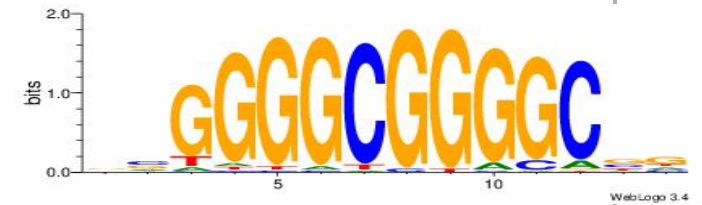
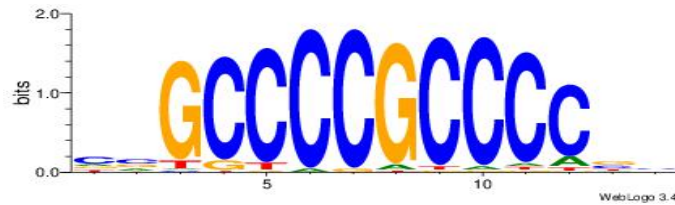
Dataset #: 2 Motif ID: 12 Motif name: csGCCCCGCCCCsc

Original motif

Consensus sequence: HVGCCCCGCCCCBB

Reverse complement motif

Consensus sequence: BBGGGGCGGGGCVD



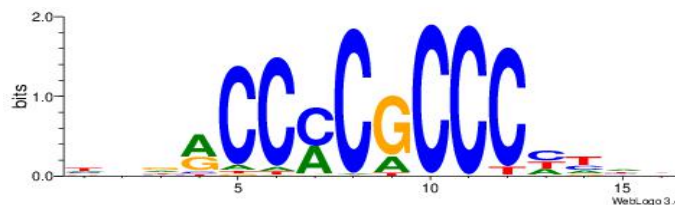
Best Matches for Motif ID 12 (Highest to Lowest)

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:
 HBDRCMCGCCCHHD
 -HVGCCCGCCCCBB-

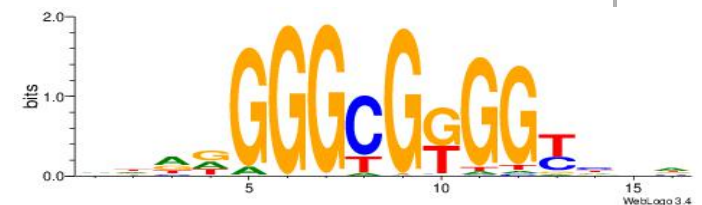
Original motif

Consensus sequence: HBDRCMCGCCCHHD



Reverse complement motif

Consensus sequence: DHHDGGGCGRGGKHBH



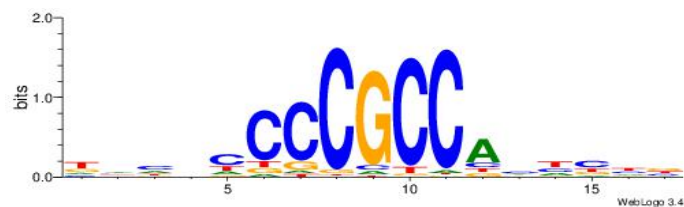
Motif ID: [UP00000](#)
 Motif name: Smad3_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 14
 Similarity score: 0.0106621

Alignment:

DHHBCCCCGCCAHHBHB
 -HVGCCCCGCCCCBB--

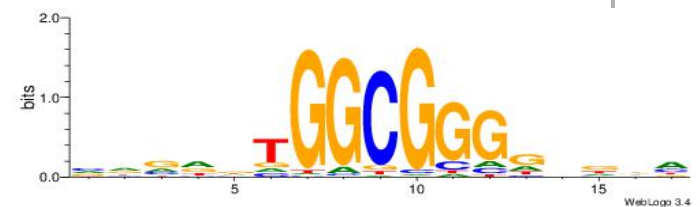
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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

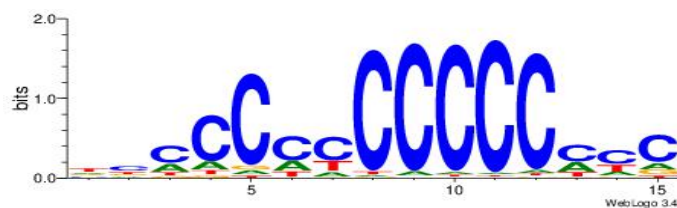
Number of overlap: 14
Similarity score: 0.017761

Alignment:

GKRGGGGGGGGGGBD
BBGGGGCGGGGCVD-

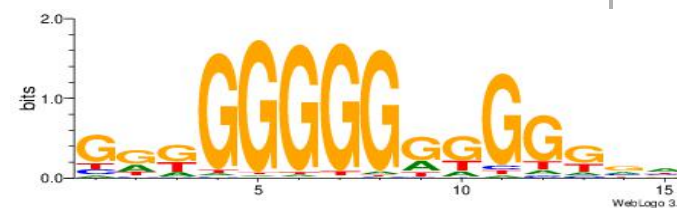
Original motif

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
Similarity score: 0.0181905

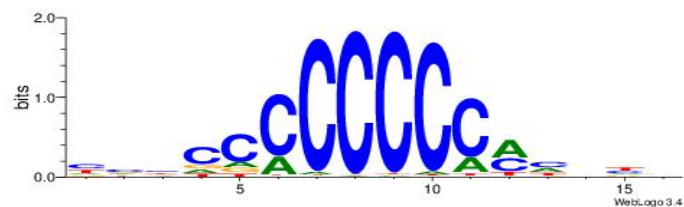
Alignment:

HVBBBBBBBBCMHHHB
HVGCCCCGCCCB--

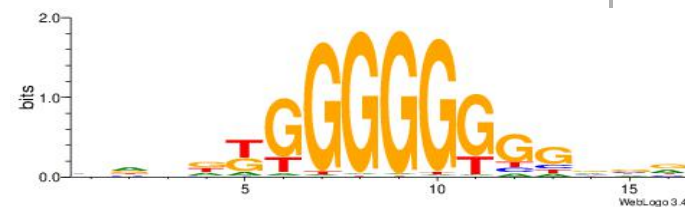
Original motif

Reverse complement motif

Consensus sequence: HVBCCCCCCCCMHHHB



Consensus sequence: BHHDYGGGGGGGGGBVD



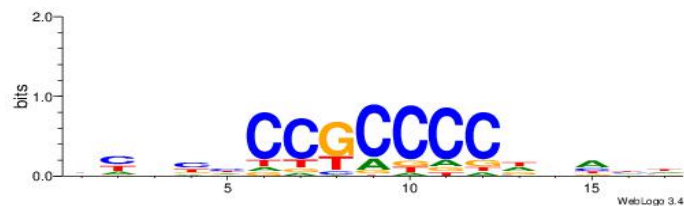
Motif ID: [UP00033](#)
Motif name: Zfp410_secondary
Species: Mus musculus
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0225788

Alignment:

BHHBHCCGCCCCDHHHH
HVGCCCCGCCCCBB---

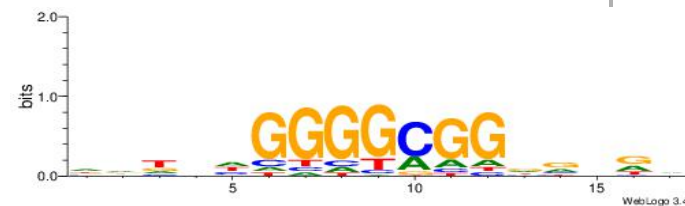
Original motif

Consensus sequence: BHHBHCCGCCCCDHHHH



Reverse complement motif

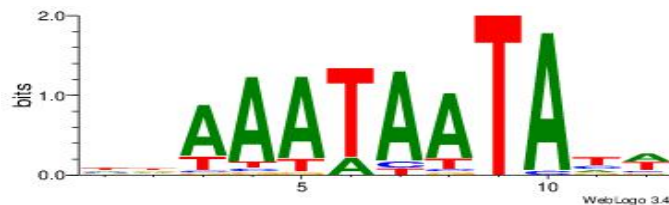
Consensus sequence: HHHHDGGGGGCGGDBHVD



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

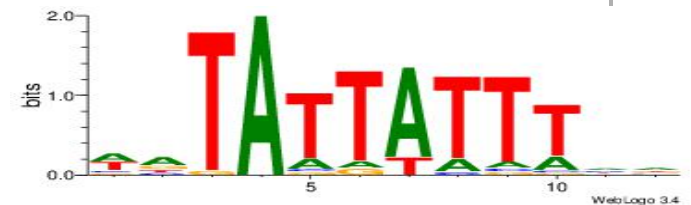
Original motif

Consensus sequence: HDAAATAATAHW



Reverse complement motif

Consensus sequence: WHTATTATTTDH



Best Matches for Motif ID 13 (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

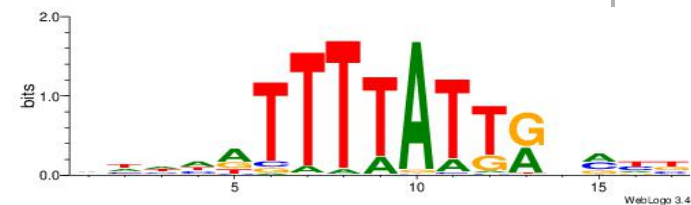
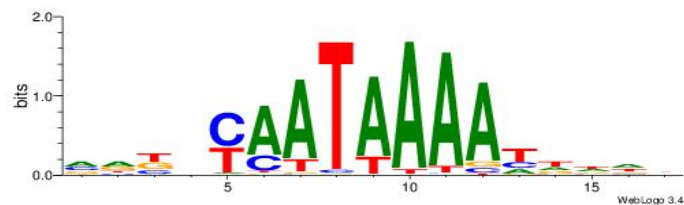
---WHTATTATTTDH--

Original motif

Consensus sequence: VDKVYAATAAAATDDDH

Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB

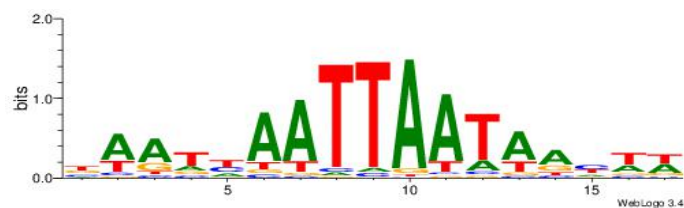


Motif ID: [UP00244](#)
 Motif name: Tlx2
 Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.00646023

Alignment:
 WDDTTATTAATTHATTV
 --WHTATTATTTDH---

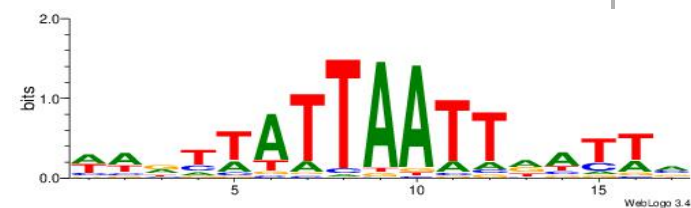
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WDDTTATTAATTHATTV



Motif ID: [UP00051](#)

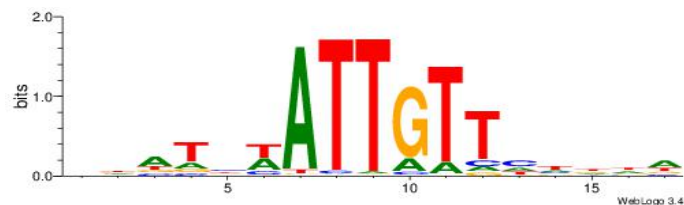
Motif name: Sox8_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 12
 Similarity score: 0.0120674

Alignment:

DDDHDAACAATWBATDD
 --HDAAATAATAHW---

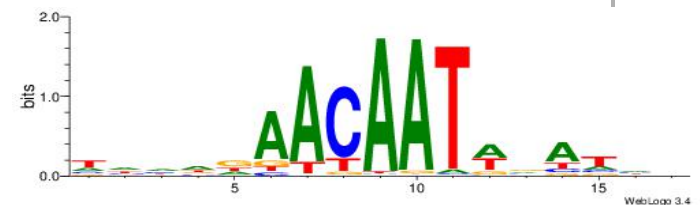
Original motif

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

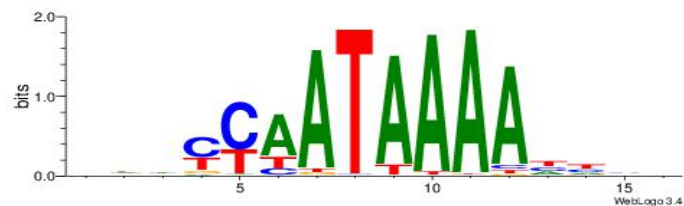
Alignment:

HDHHTTTTATTKKHDD

--WHTATTATTTDH--

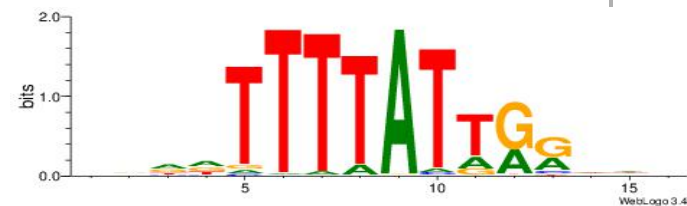
Original motif

Consensus sequence: HDHYAATAAAAHHHH



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

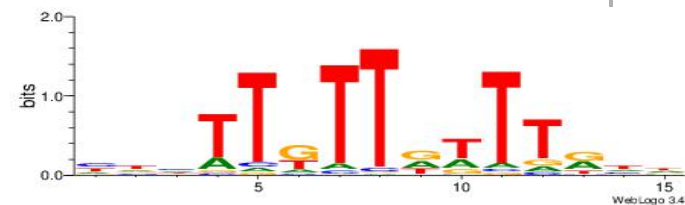
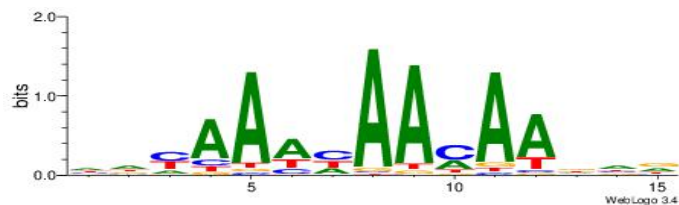
--WHTATTATTTDH--

Original motif

Consensus sequence: HDYAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH



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

Original motif

Consensus sequence: BCACCTGCABC



Reverse complement motif

Consensus sequence: GBTGCAGGTGB



Best Matches for Motif ID 16 (Highest to Lowest)

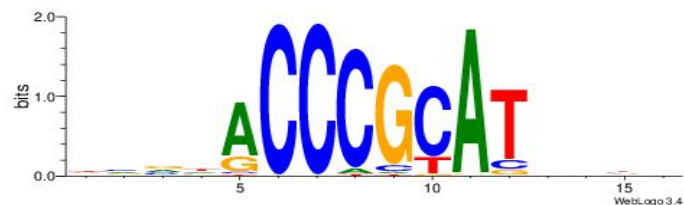
Motif ID:	UP00070
Motif name:	Gcm1_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

DHDVATGCGGGTHVVH
---GBTGCAGGTGB---

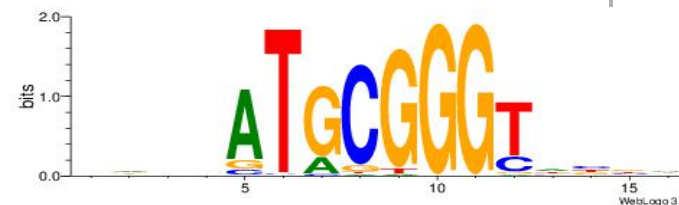
Original motif

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:

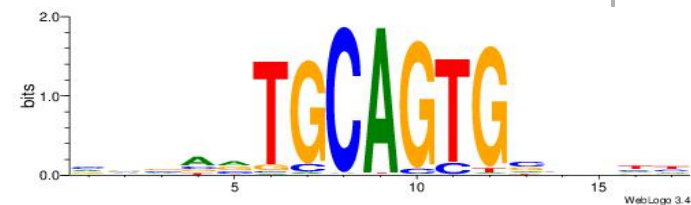
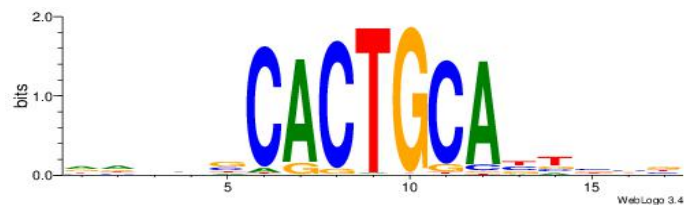
BBBAVTGCAGTGBBVDD
---GBTGCAGGTGB---

Original motif

Consensus sequence: DDBBBCACTGCABTBBB

Reverse complement motif

Consensus sequence: BBBAVTGCAGTGBBVDD

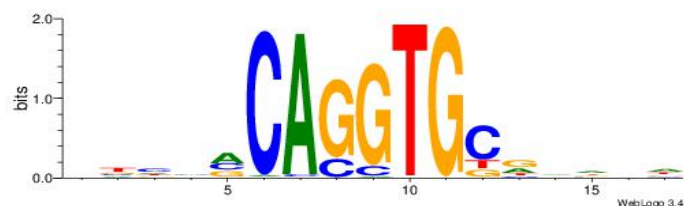


Motif ID: [UP00046](#)
 Motif name: Tcfe2a_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 6
 Number of overlap: 11
 Similarity score: 0.000557448

Alignment:
 DHDBHGCACCTGBDDVB
 -----BCACCTGCABC-

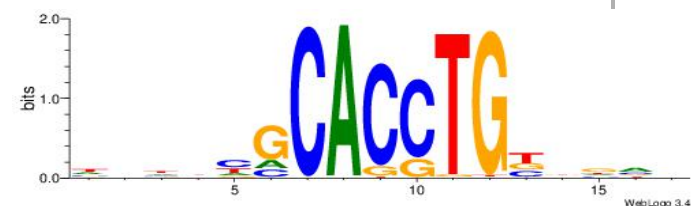
Original motif

Consensus sequence: VBHHVCAGGTGCDVDHD



Reverse complement motif

Consensus sequence: DHDBHGCACCTGBDDVB



Motif ID: [UP00099](#)

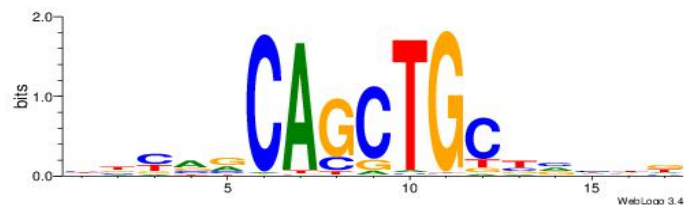
Motif name: Ascl2_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.00842747

Alignment:

BBYVVCAGCTGCBVHHD
 ----BCACCTGCABC--

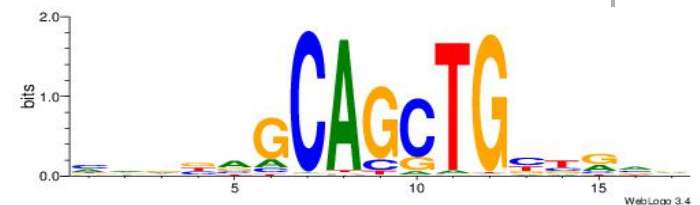
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVCAGCTGVBKVB



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

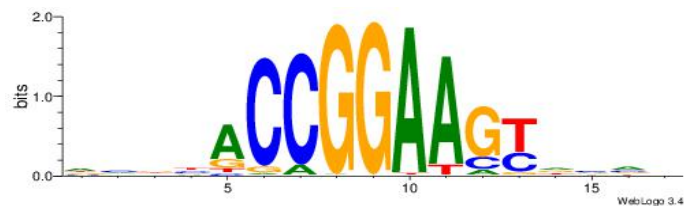
Alignment:

DVBBACCGGAAGYDVVV

--BCACCTGCABC----

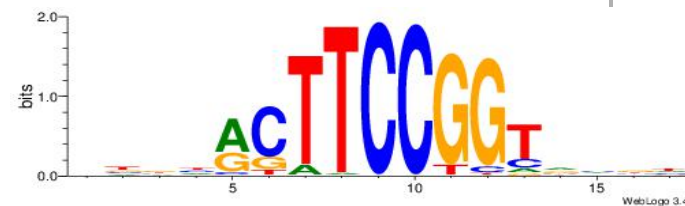
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV



Reverse complement motif

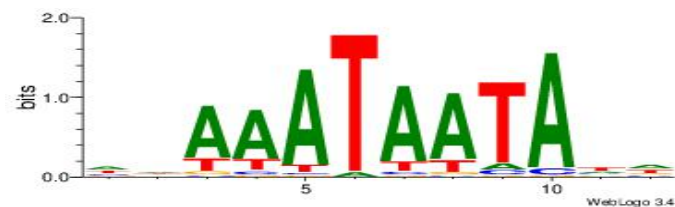
Consensus sequence: VBVDMCTTCCGGTVBVD



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

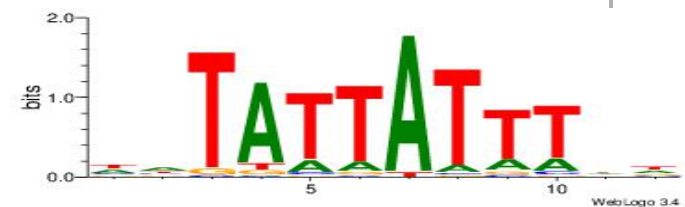
Original motif

Consensus sequence: HDAAATAATADD



Reverse complement motif

Consensus sequence: DDTATTATTTDH



Best Matches for Motif ID 17 (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

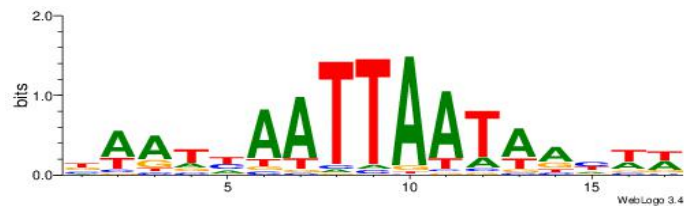
Alignment:

```

WWDTTATTAATTHATTV
--DDTATTATTTDH---
```

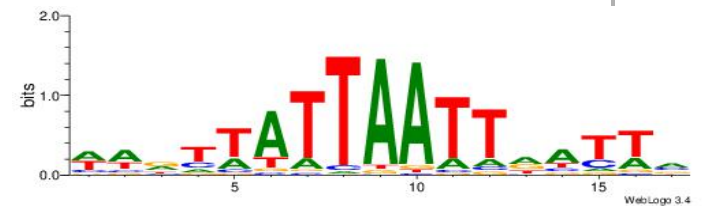
Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



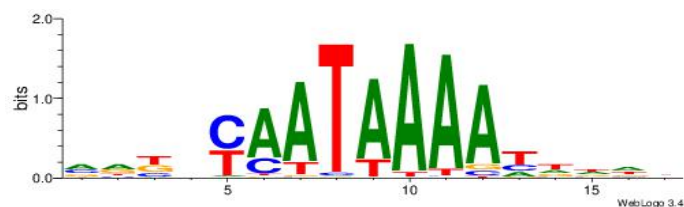
Motif ID:	UP00121
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.00673636

Alignment:

HDDDATTTTATTKVRDB
---DDTATTATTTDH--

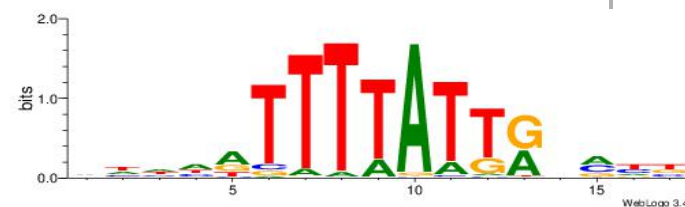
Original motif

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:

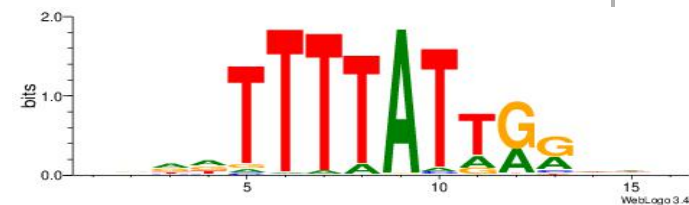
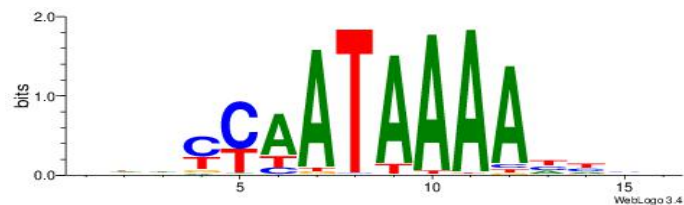
HDHHTTTTATTKKHDD
--DDTATTATTTDH--

Original motif

Consensus sequence: HDHYAATAAAHHHH

Reverse complement motif

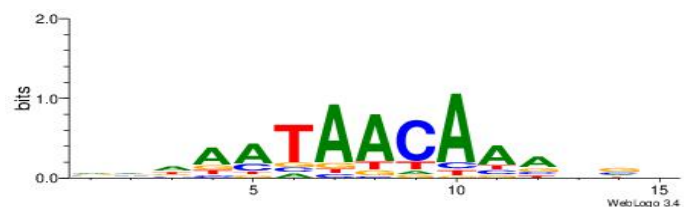
Consensus sequence: HDHHTTTTATTKKHDD



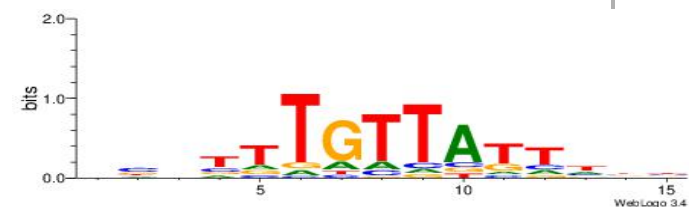
Motif ID: [UP00073](#)
 Motif name: Foxa2_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0.0108327

Alignment:
 VVDAATAACAAAVVB
 HDAAATAATADD---

Original motif
 Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif
 Consensus sequence: BVVTTTGTATTDBB



Motif ID: [UP00134](#)
 Motif name: Hoxb13

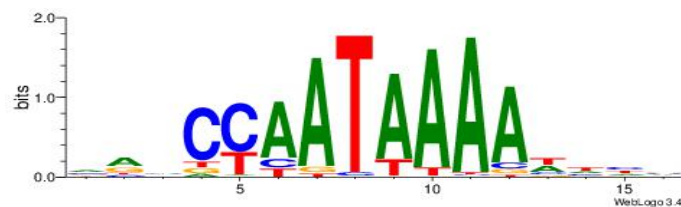
Species: Mus musculus
 Matching format of first motif: Reverse Complement
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 3
 Number of overlap: 12
 Similarity score: 0.0121723

Alignment:

VDHWTTTATTGGDKB
 --DDTATTATTTDH--

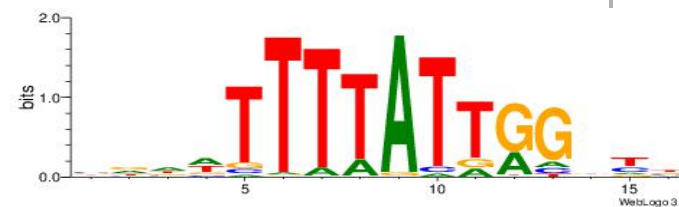
Original motif

Consensus sequence: VRHCCAATAAAWHHV



Reverse complement motif

Consensus sequence: VDHWTTTATTGGDKB



Dataset #: 2

Motif ID: 19

Motif name: wsTACwGTAsw

Original motif

Consensus sequence: HVTACWGATABD



Reverse complement motif

Consensus sequence: DBTACWGTAHV



Best Matches for Motif ID 19 (Highest to Lowest)

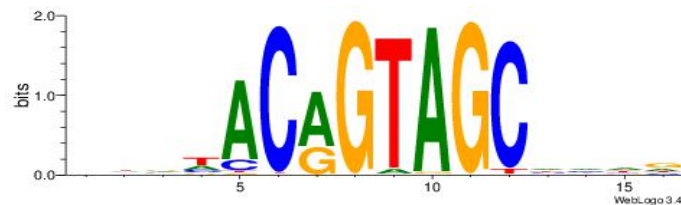
Motif ID: [UP00052](#)
Motif name: Osr2_primary
Species: Mus musculus
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0

Alignment:

HHHHGCTACKGTHVHH
----DBTACWGTAVH--

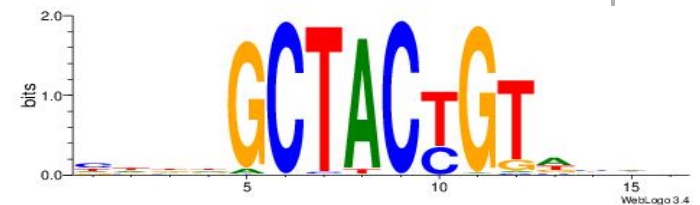
Original motif

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

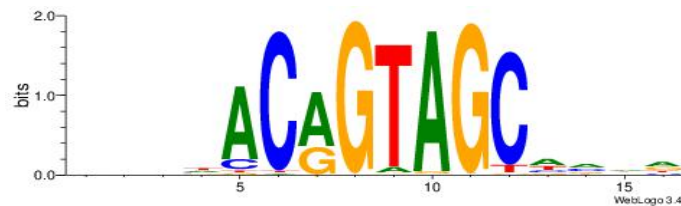
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.00480574

Alignment:

```
DHBHGCTACKGTHDHH
-----DBTACWGTA VH-
```

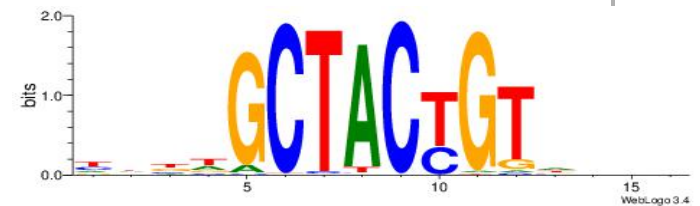
Original motif

Consensus sequence: HHDHACRGTAGCHVHD



Reverse complement motif

Consensus sequence: DHBHGCTACKGTHDHH



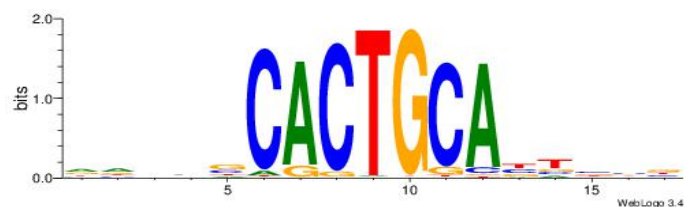
Motif ID:	UP00031
Motif name:	Zbtb3_primary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0165381

Alignment:

BBBAVTGCAGTGBBVDD
 ---HVTACWGATABD---

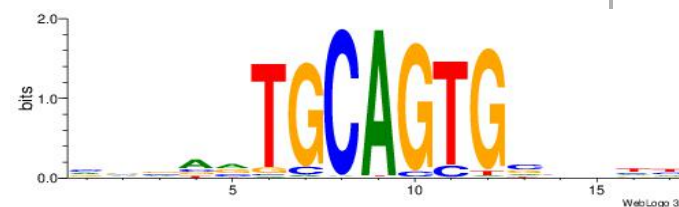
Original motif

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:

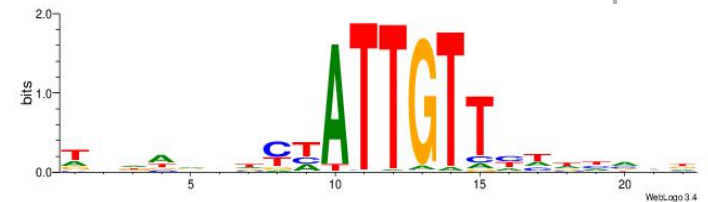
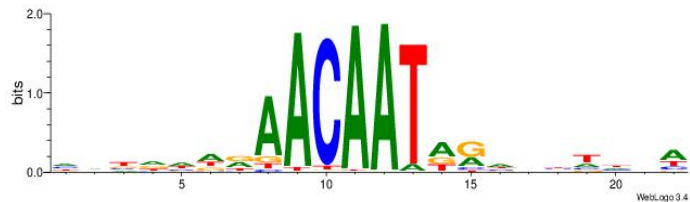
HHBDHDDAACAATDRHHHHHBW
 -----DBTACWGTAHVH-----

Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW

Reverse complement motif

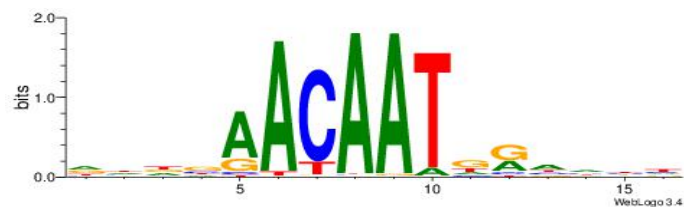
Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



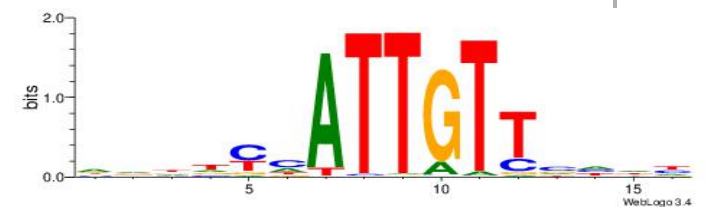
Motif ID: [UP00023](#)
 Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 3
 Number of overlap: 11
 Similarity score: 0.0294174

Alignment:
 HHHMHATTGTTBDHD
 ---HVTACWGATABD--

Original motif
 Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif
 Consensus sequence: HHHMHATTGTTBDHD



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

Original motif

Consensus sequence: DHACATTCTGH



Reverse complement motif

Consensus sequence: HCAGAATGTHD



Best Matches for Motif ID 20 (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

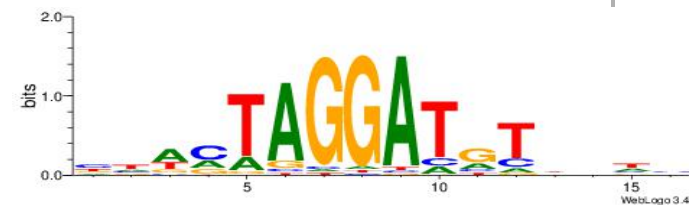
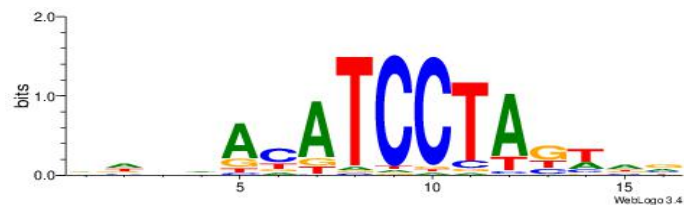
---HCAGAATGTHD---

Original motif

Consensus sequence: DDBHACATCCTAKWDV

Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH

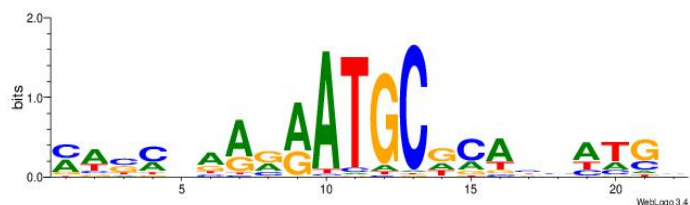


Motif ID: [UP00528](#)
 Motif name: Foxm1_secondary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Forward
 Position number: 8
 Number of overlap: 11
 Similarity score: 0.00582895

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

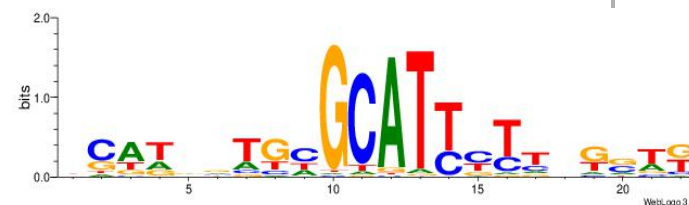
Original motif

Consensus sequence: MWSMBAARRATGCD CABHATGD



Reverse complement motif

Consensus sequence: DCATDBTGHGCATKMTTBRSWR



Motif ID: [UP00023](#)

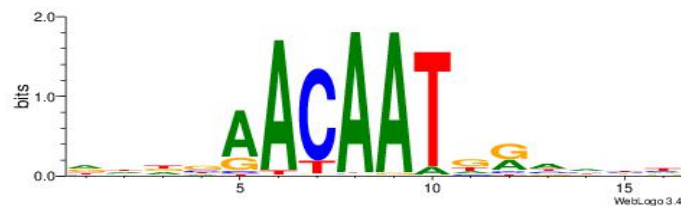
Motif name: Sox30_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Reverse Complement
 Direction: Backward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00613057

Alignment:

HHHMHATTGTTBDHD
 --DHACATTCTGH---

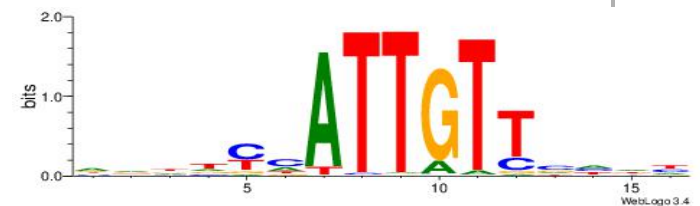
Original motif

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

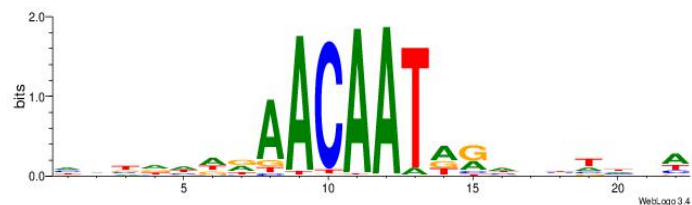
Alignment:

WBHHHHHMDATTGTTDHDVHH

-----DHACATTCTGH-----

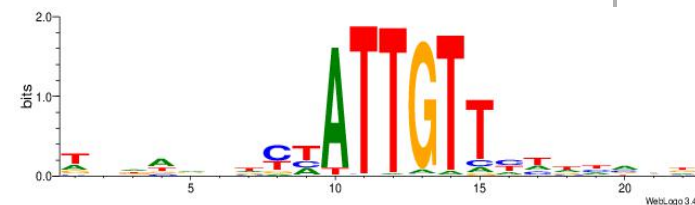
Original motif

Consensus sequence: HHBDHDDAACAAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTDHDVHH



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

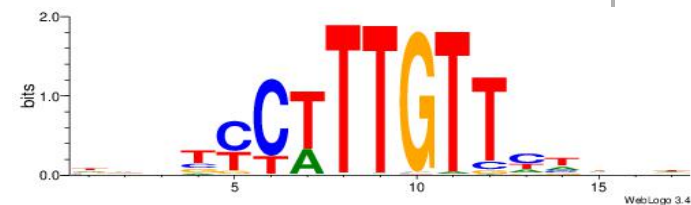
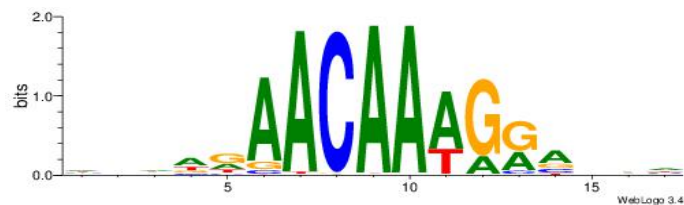
--DHACATTCTGH----

Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH



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

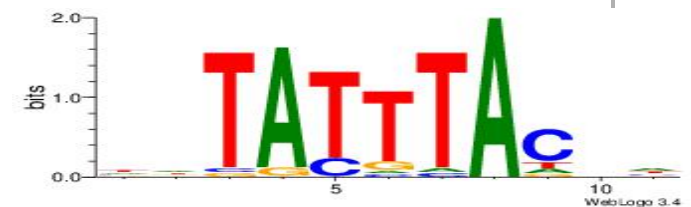
Original motif

Consensus sequence: DBGTAATAHD



Reverse complement motif

Consensus sequence: DHTATTTACBD



Best Matches for Motif ID 21 (Highest to Lowest)

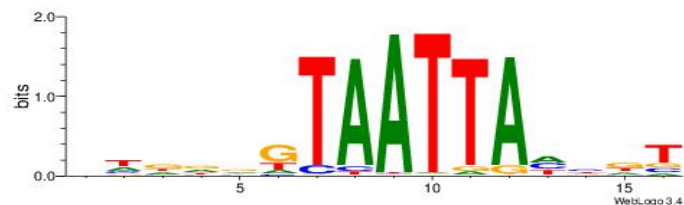
Motif ID:	UP00242
Motif name:	Hoxc8
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0

Alignment:

AHDHTAATTACHHHHV
--DHTATTTACBD---

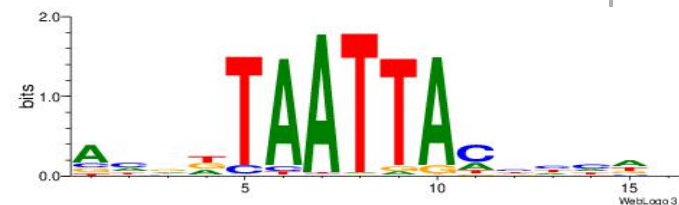
Original motif

Consensus sequence: BHDDDGTAAATTAHHDT



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:

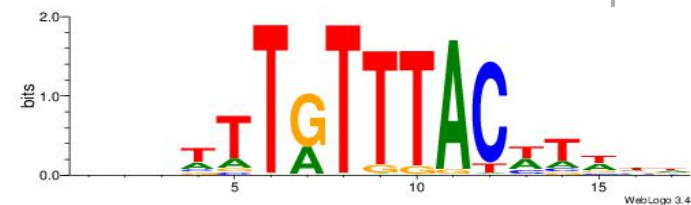
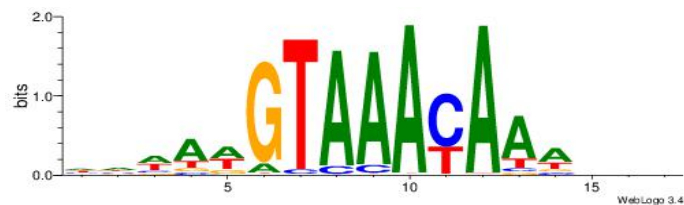
HHWAWGTAAAYAAVDB
---DBGTAATAHD---

Original motif

Consensus sequence: HHWAWGTAAAYAAVDB

Reverse complement motif

Consensus sequence: BDVTTTKTTTACWTWHH

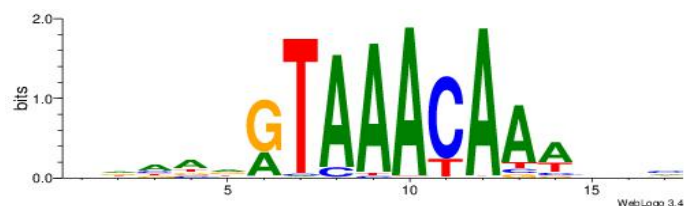


Motif ID: [UP00039](#)
 Motif name: Foxj3_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 4
 Number of overlap: 11
 Similarity score: 0.00490457

Alignment:
 HDHADGTAAACAAVVH
 ---DBGTAATAHD---

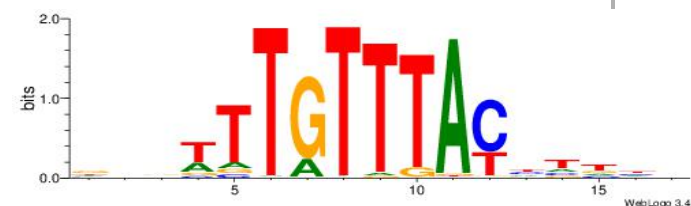
Original motif

Consensus sequence: HDHADGTAAACAAVVH



Reverse complement motif

Consensus sequence: DVVTTTGTTCACDTHDH



Motif ID: [UP00041](#)

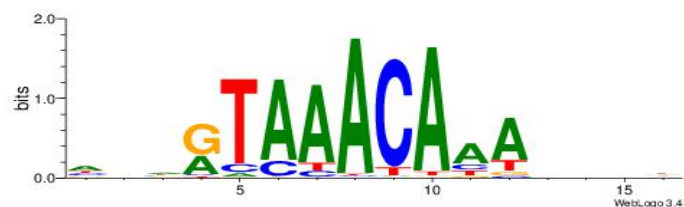
Motif name: Foxj1_primary
 Species: Mus musculus
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 5
 Number of overlap: 11
 Similarity score: 0.00656547

Alignment:

HDHRTAAACAAHDDD
 -DBGTAATAHD-----

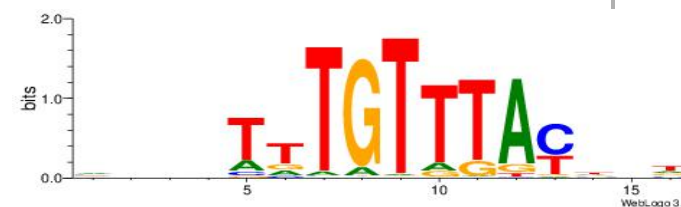
Original motif

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

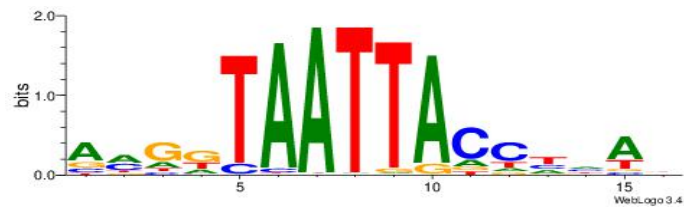
Alignment:

DTHHGGTAATTAYCYT

---DBGTAATAHD---

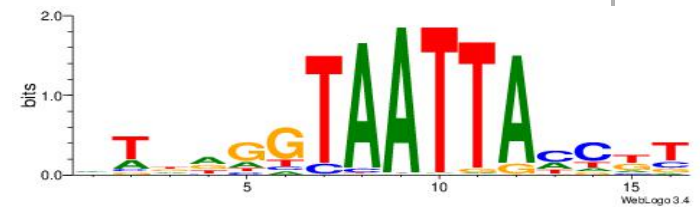
Original motif

Consensus sequence: AMGKTAATTACCHAD



Reverse complement motif

Consensus sequence: DTHHGGTAATTAYCYT



Results created by MOTIFSIM on 06-18-2018 21:47:01

Runtime: 633.592 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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