

MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters

Number of files:2Number of top significant motifs:10Number of best matches:10Similarity cutoff >=0.75

Matching motif database: UniProbe Mus Musculus

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

Input files and motif counts

File name	Count of motifs	Dataset number
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: <u>UP00065</u>

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----

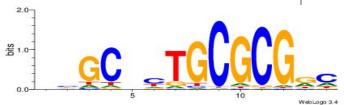
Original motif

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

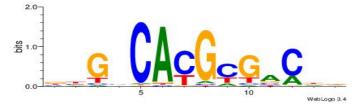
Alignment:

BBGHCACGCGACDD

-----CGCGAC--

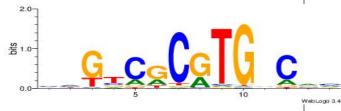
Original motif

Consensus sequence: BBGHCACGCGACDD



Reverse complement motif

Consensus sequence: HDGTCGCGTGDCVB



Motif 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:

WHSGCGCGCCHTDHB

Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



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

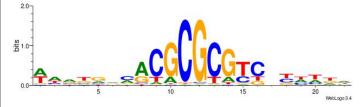
Similarity score: 0.0119605

Alignment:

WHVBVVMACGCGCGTCDYHWDH

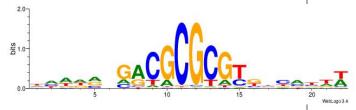
Original motif

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

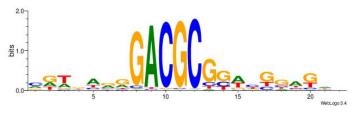
Alignment:

VDWDARRGACGCGGWHGGAKHV

-----GTCGCG-----

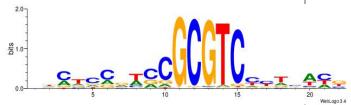
Original motif

Consensus sequence: VDWDARRGACGCGGWHGGAKHV



Reverse complement motif

Consensus sequence: VHYTCCDWCCGCGTCMMTHWHV



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: 10
Number of overlap: 6

Similarity score: 0.0143989

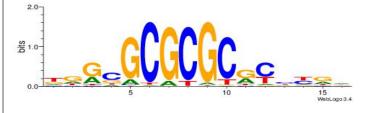
Alignment:

DMMDGMGCGCGCGCHD

-----CGCGAC-

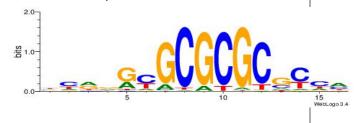
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD



Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD



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: 5
Number of overlap: 6

Similarity score: 0.0147239

Alignment:

HHVGCGCGCCKTDHB
----CGCGAC----

Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

 $Consensus \ sequence: \ HHVGCGCGCCKTDHB$



Motif ID: UP00002

Motif name: Sp4_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: 6

Similarity score: 0.0222574

Alignment:

HHDGBCACGCCTWDB
---GTCGCG----

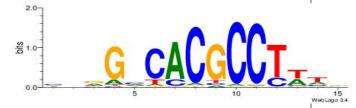
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



Motif ID: UP00049

Motif name: Sp100_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: 6

Similarity score: 0.0300795

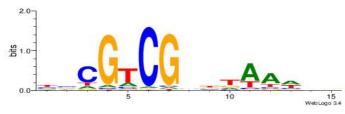
Alignment:

 ${\tt BBCGTCGHBTAAWDB}$

---GTCGCG-----

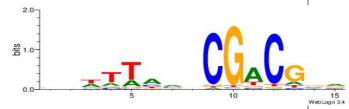
Original motif

Consensus sequence: BBCGTCGHBTAAWDB



Reverse complement motif

Consensus sequence: BDWTTAVDCGACGBV



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:

Similarity score: 0.0317992

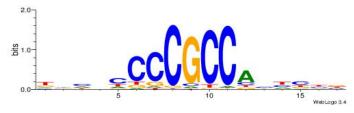
Alignment:

BHBHDTGGCGGGBDHD

----GTCGCG-----

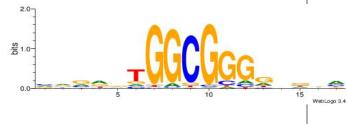
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD



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

Original motif

Consensus sequence: SCGCGCGG



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

Original motif

Consensus sequence: WHVBVVMACGCGCGTCDYHWDH

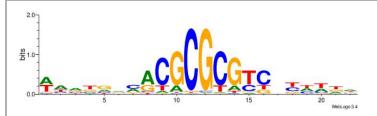
Reverse complement motif

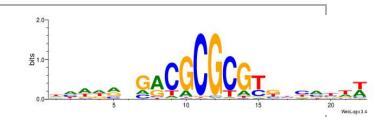
Consensus sequence: CCGCGCGS



Reverse complement motif

Consensus sequence: HDWHMHGACGCGCGTRBVVBHW





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:

VVGCVMTGCGCGKC

----CCGCGCGS-

Original motif

Consensus sequence: GYCGCGCARBGCVB



UP00003

Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



Motif ID:

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:

WHSGCGCGCCHTDHB
-CCGCGCGS----

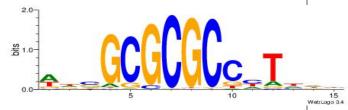
Original motif

Consensus sequence: VHDADGGCGCGCSHW



Reverse complement motif

Consensus sequence: WHSGCGCGCCHTDHB



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:

HHVGCGCGCCKTDHB
-CCGCGCGS----

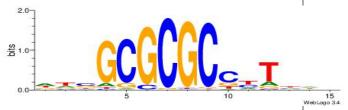
Original motif

Consensus sequence: VHDARGGCGCGCVHH



Reverse complement motif

Consensus sequence: HHVGCGCGCCKTDHB



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

Similarity score: 0.00484534

Alignment:

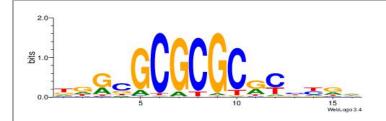
DDGCGCGCGCRCHYRD
----CCGCGCGS----

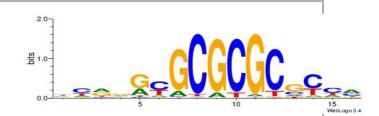
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD





Motif name: Foxn1_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: 8

Similarity score: 0.0149577

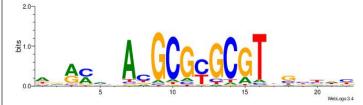
Alignment:

 ${\tt BDVBCDACGCKCGCGTBHRKHD}$

-----CCGCGCGS-----

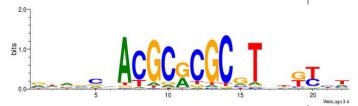
Original motif

Consensus sequence: DDRMHBACGCGYGCGTDGBBDB



Reverse complement motif

Consensus sequence: BDVBCDACGCKCGCGTBHRKHD



Motif name: Zif268

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: 0.0194485

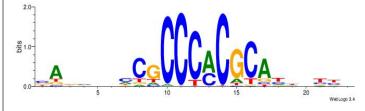
Alignment:

VVVDHHTGCGYGGGCGDHVHHTB

----SCGCGCGG-----

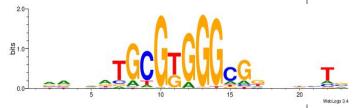
Original motif

Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV



Reverse complement motif

Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB



Motif ID: UP00022

Motif name: Zfp740_secondary

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: 8

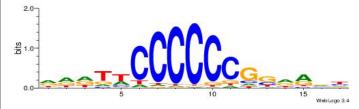
Similarity score: 0.0230299

Alignment:

DDDTWCCCCCGGDRVH
----CCGCGCGS----

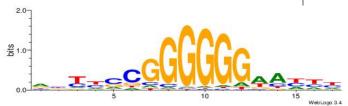
Original motif

Consensus sequence: DDDTWCCCCCGGDRVH



Reverse complement motif

Consensus sequence: HVKDCCGGGGGGWADDD



Motif ID: <u>UP00007</u>

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: 6
Number of overlap: 8

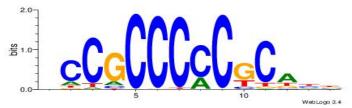
Similarity score: 0.0247841

Alignment:

HCCGCCCCGCAHB
----CCGCGCGS-

Original motif Reverse complement motif

Consensus sequence: HCCGCCCCGCAHB



Consensus sequence: VHTGCGGGGGCGGH



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: 7
Number of overlap: 8

Similarity score: 0.0249557

Alignment:

BHHDTCCCACTCBDBV
----CCGCGCGS--

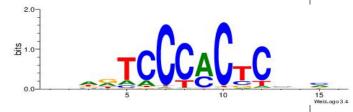
Original motif

Consensus sequence: BBHBGAGTGGGAHHDB



Reverse complement motif

Consensus sequence: BHHDTCCCACTCBDBV



Dataset #: 1 Motif ID: 3 Motif name: TFW3

Original motif

Consensus sequence: CGGCYBCGCG



Best Matches for Motif ID 3 (Highest to Lowest)

Motif ID: UP00400

Motif name: Zif268

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: 10

Similarity score: 0.0331859

Alignment:

VVVDHHTGCGYGGGCGDHVHHTB
----CGCGBMGCCG-----

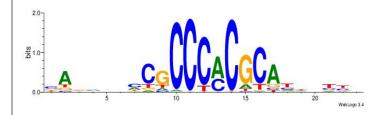
Original motif Reverse complement motif

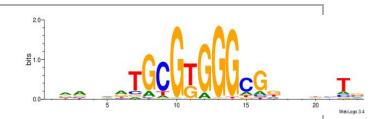
Consensus sequence: BADHBDHCGCCCMCGCAHHDBBV Consensus sequence: VVVDHHTGCGYGGGCGDHVHHTB

Reverse complement motif

Consensus sequence: CGCGBMGCCG







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:

HCCGCCCCGCAHB
--CGGCYBCGCG--

Original motif

Consensus sequence: HCCGCCCCGCAHB



Reverse complement motif

Consensus sequence: VHTGCGGGGGCGGH



Motif ID: <u>UP00527</u>

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-

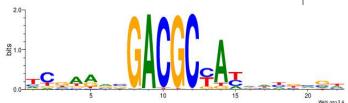
Original motif

Consensus sequence: DBBVDDDRTRGCGTCBBYTHGA



Reverse complement motif

Consensus sequence: TCDAMVBGACGCMAKDDDVBBD



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

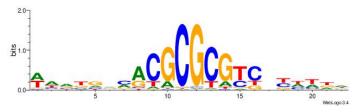
Similarity score: 0.041792

Alignment:

HDWHMHGACGCGCGTRBVVBHW
----CGCGBMGCCG--

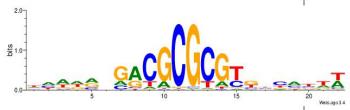
Original motif

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:

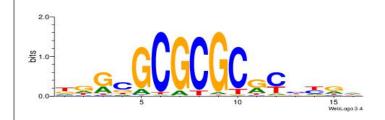
DDGCGCGCGCRCHYRD ----CGCGBMGCCG-

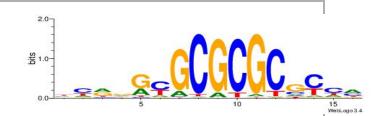
Original motif

Consensus sequence: DDGCGCGCGCRCHYRD

Reverse complement motif

Consensus sequence: DMMDGMGCGCGCGCHD





Motif name: Zfp161_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: 10

Similarity score: 0.0419429

Alignment:

VVGCVMTGCGCGKC CGGCYBCGCG----

Original motif

Consensus sequence: GYCGCGCARBGCVB



Reverse complement motif

Consensus sequence: VVGCVMTGCGCGKC



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: 10

Similarity score: 0.0475178

Alignment:

BDWAGGCGTGBCHHD
----CGCGBMGCCG-

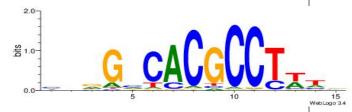
Original motif

Consensus sequence: BDWAGGCGTGBCHHD



Reverse complement motif

Consensus sequence: HHDGBCACGCCTWDB



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: 1

Number of overlap: 10

Similarity score: 0.0490044

Alignment:

DHHBCCCCGCCAHHBHB
----CGGCYBCGCG

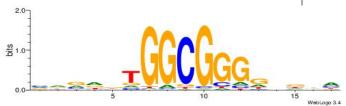
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



Motif ID: UP00087

Motif name: Tcfap2c_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: 10

Similarity score: 0.0499902

Alignment:

DTHSCCKSMGGSHHW

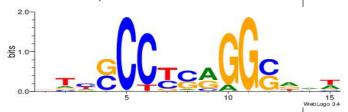
--CGGCYBCGCG---

Original motif Reverse complement motif

Consensus sequence: WHHSCCYSRGGSDAD



Consensus sequence: DTHSCCKSMGGSHHW



Motif ID: UP00005

Motif name: Tcfap2a_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: 0.0500462

Alignment:

DTMSCCKSMGGSHDW --CGGCYBCGCG---

Original motif

Consensus sequence: WDHSCCYSRGGSRAD



Reverse complement motif

Consensus sequence: DTMSCCKSMGGSHDW



Dataset #: 1 Motif ID: 4 Motif name: TFF1

Original motif

Consensus sequence: CGGVGCCGCVGC



Best Matches for Motif ID 4 (Highest to Lowest)

Motif ID: UP00003

Motif name: E2F3_secondary
Species: Mus musculus

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: 12

Similarity score: 0.0423593

Alignment:

HBHWYGGCGCCAMDVBB
----CGGVGCCGCVGC-

Original motif

Consensus sequence: HBHWYGGCGCCAMDVBB

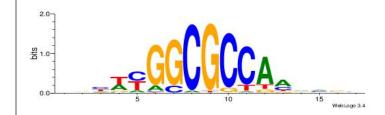
Reverse complement motif

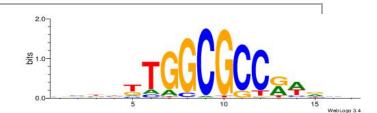
Consensus sequence: GCVGCGGCBCCG



Reverse complement motif

Consensus sequence: BBBDYTGGCGCCKWDBD





Motif name: E2F2_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: 12

Similarity score: 0.046515

Alignment:

HVBWYGGCGCCAADVBB

----CGGVGCCGCVGC-

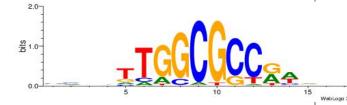
Original motif

Consensus sequence: HVBWYGGCGCCAADVBB



Reverse complement motif

Consensus sequence: BBBDTTGGCGCCKWVVD



Motif ID: UP00088

Motif name: Plagl1_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

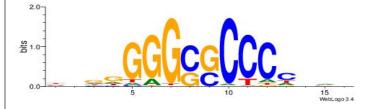
Similarity score: 0.0472704

Alignment:

VBVGGGGSSCCCCHHV GCVGCGGCBCCG----

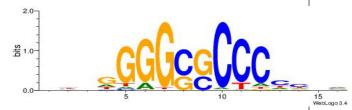
Original motif

Consensus sequence: BHDGGGGSSCCCCBVV



Reverse complement motif

Consensus sequence: VBVGGGGSSCCCCHHV



Motif ID: UP00099

Motif name: Ascl2_primary
Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 5
Number of overlap: 12

Similarity score: 0.0476914

Alignment:

BBYVVCAGCTGCBVHHD
----GCVGCGGCBCCG-

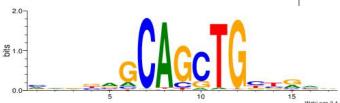
Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



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: Backward

Position number: 5

Number of overlap: 12

Similarity score: 0.0508178

Alignment:

HBBBCCGCCCWHHHV
GCVGCGGCBCCG----

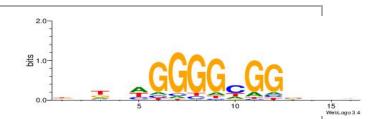
Original motif

Consensus sequence: HBBBCCGCCCWHHHV

Reverse complement motif

Consensus sequence: BHHHWGGGGCGGBBVH





Motif name: Zfp410_secondary

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: 12

Similarity score: 0.0533422

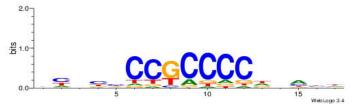
Alignment:

ВННВНССССССОНННН

-GCVGCGGCBCCG----

Original motif

Consensus sequence: BHHBHCCGCCCDHHHH



Reverse complement motif

Consensus sequence: HHHHDGGGGCGGDBHDV



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: 9
Number of overlap: 12

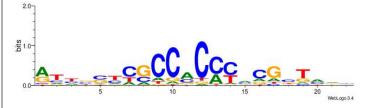
Similarity score: 0.0561199

Alignment:

HDBABCGBKRGYGGCGMSBHAK
----CGGVGCCGCVGC--

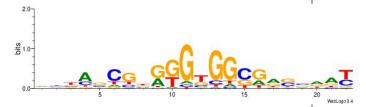
Original motif

Consensus sequence: RTHBSYCGCCMCMYVCGBTVDH



Reverse complement motif

Consensus sequence: HDBABCGBKRGYGGCGMSBHAK



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: 2
Number of overlap: 12

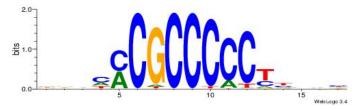
Similarity score: 0.0577556

Alignment:

BDHHMCGCCCCCTHVBB -GCVGCGGCBCCG----

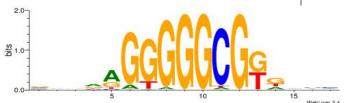
Original motif

Consensus sequence: BDHHMCGCCCCCTHVBB



Reverse complement motif

Consensus sequence: BVVHAGGGGGCGRDHHB



Motif ID: UP00000

Motif name: Smad3_secondary

Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Backward

Position number: 6
Number of overlap: 12

Similarity score: 0.0577695

Alignment:

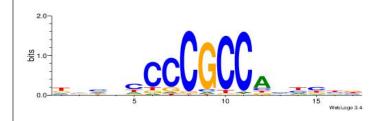
DHHBCCCCGCCAHHBHB GCVGCGGCBCCG----

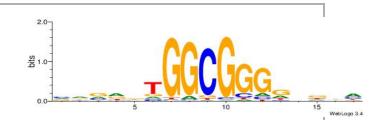
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB

Reverse complement motif

Consensus sequence: BHBHDTGGCGGGBDHD





Motif name: Gli3_v015681_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: 12

Similarity score: 0.0581164

Alignment:

DVTTVVCVYGGHGGYCHHDMYB

----CGGVGCCGCVGC--

Original motif

Consensus sequence: DVTTVVCVYGGHGGYCHHDMYB



Reverse complement motif

Consensus sequence: VMYDHDGMCCHCCKBGVVAAVH



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

Original motif

Consensus sequence: HDAAATAATAHW



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

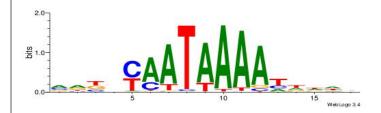
Reverse complement motif

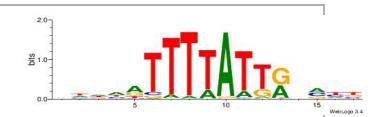
Consensus sequence: WHTATTATTTDH



Reverse complement motif

Consensus sequence: HDDDATTTTATTKVRDB





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:

WWDTTATTAATTHATTV

--WHTATTATTTDH---

Original motif

Consensus sequence: BAATHAATTAATAAHWW



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV



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---

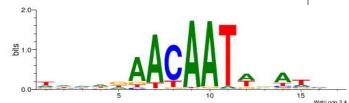
Original motif

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

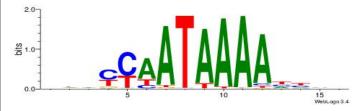
Similarity score: 0.0123772

Alignment:

HDHHTTTTATTKKHDD
--WHTATTATTTDH--

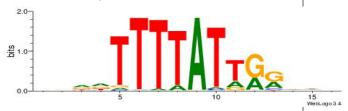
Original motif

Consensus sequence: HDHYYAATAAAAHHHH



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:

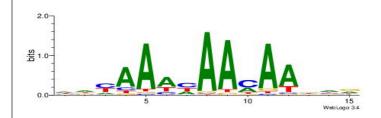
HHHTTRTTDTTTKDH --WHTATTATTTDH-

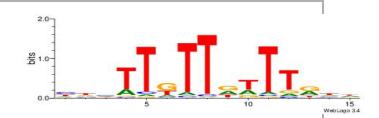
Original motif

Consensus sequence: HDYAAAHAAMAADHD

Reverse complement motif

Consensus sequence: HHHTTRTTDTTTKDH





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-

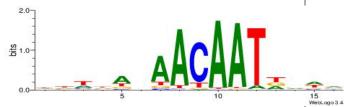
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



Motif ID: <u>UP00255</u>

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

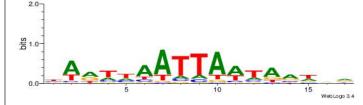
Similarity score: 0.0131034

Alignment:

HARTHAATTAWTAVDHD
---HDAAATAATAHW--

Original motif

Consensus sequence: HARTHAATTAWTAVDHD



Reverse complement motif

Consensus sequence: DHDBTAWTAATTHAKTH



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:

HDTATTAHTAAAVV 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 Reverse complement motif

Consensus sequence: HDDDDAACAATWRRBHD



Consensus sequence: DHVKMWATTGTTHDHDH



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: Backward

Position number: 3
Number of overlap: 12

Similarity score: 0.014607

Alignment:

WHDWWATTGTTCKDHD
--WHTATTATTTDH--

Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



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

Original motif

Consensus sequence: BCACCTGCABC



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--

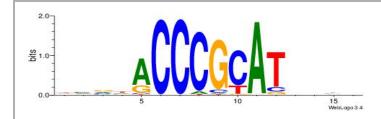
Original motif Reverse complement motif

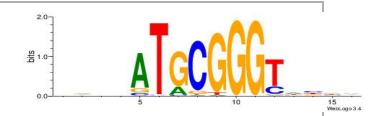
Consensus sequence: HVVHACCCGCATVDHD Consensus sequence: DHDVATGCGGGTHVVH

Reverse complement motif

Consensus sequence: GBTGCAGGTGB







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-

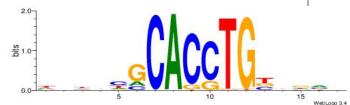
Original motif

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

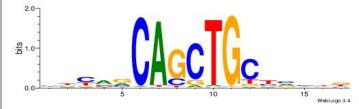
Alignment:

BBYVVCAGCTGCBVHHD

----BCACCTGCABC--

Original motif

Consensus sequence: BBYVVCAGCTGCBVHHD



Reverse complement motif

Consensus sequence: HHDVVGCAGCTGVBKVB



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:

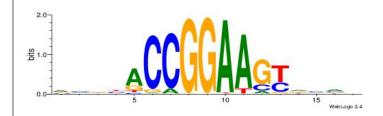
DVBBACCGGAAGYDVVV
--BCACCTGCABC----

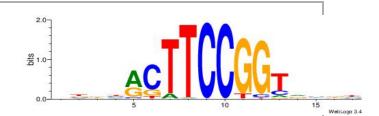
Original motif

Consensus sequence: DVBBACCGGAAGYDVVV

Reverse complement motif

Consensus sequence: VBVDMCTTCCGGTVBVD





Motif 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

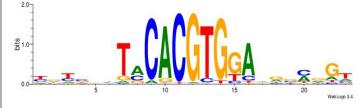
Similarity score: 0.0122671

Alignment:

ACHRBHDTCCACGTGYAHHBMHM
----BCACCTGCABC---

Original motif

Consensus sequence: YDYBDHTMCACGTGGADDBMDGT



Reverse complement motif

Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM



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

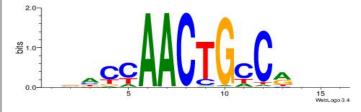
Alignment:

BDACCAACTGCCRBBH

---BCACCTGCABC--

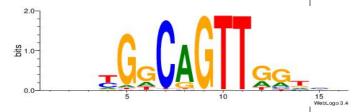
Original motif

Consensus sequence: BDACCAACTGCCRBBH



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

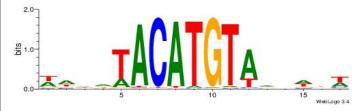
Similarity score: 0.0163141

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

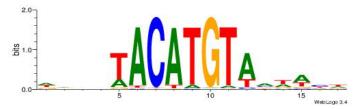
Alignment:

DDWWBTACATGTADDDD ----BCACCTGCABC--

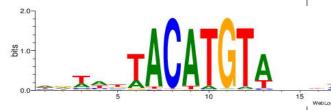
Original motif

Reverse complement motif

Consensus sequence: DDDDTACATGTAVWWHD



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----

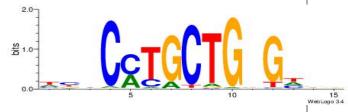
Original motif

Consensus sequence: HHDCVCAGCAKGVVD



Reverse complement motif

Consensus sequence: DVBCYTGCTGBGDDD



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

Original motif

Consensus sequence: HDAAATAATADD



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

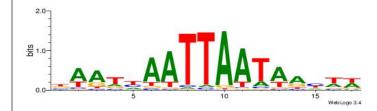
Reverse complement motif

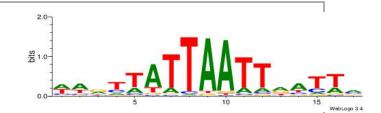
Consensus sequence: DDTATTATTTDH



Reverse complement motif

Consensus sequence: WWDTTATTAATTHATTV





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: <u>UP00180</u>

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

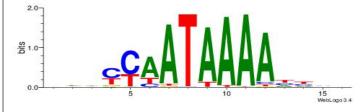
Similarity score: 0.00685179

Alignment:

HDHHTTTTATTKKHDD
--DDTATTATTTDH--

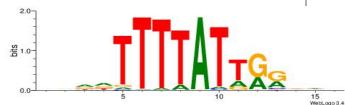
Original motif

Consensus sequence: HDHYYAATAAAAHHHH



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

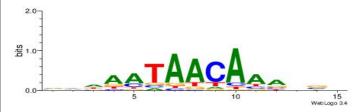
Similarity score: 0.0108327

Alignment:

VVDAATAACAAAVVB HDAAATAATADD---

Original motif

Consensus sequence: VVDAATAACAAAVVB



Reverse complement motif

Consensus sequence: BVVTTTGTTATTDBB



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

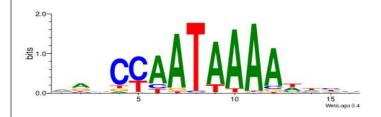
Similarity score: 0.0121723

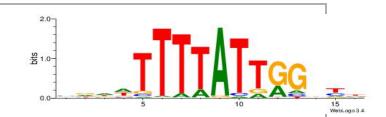
Alignment:

VDHWTTTTATTGGDKB
--DDTATTATTTDH--

Original motif Reverse complement motif

Consensus sequence: VRHCCAATAAAAWHHV Consensus sequence: VDHWTTTTATTGGDKB





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-----

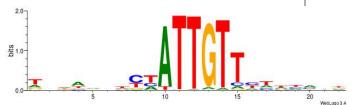
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHHMDATTGTTHDHDVHH



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

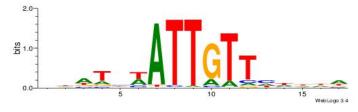
Similarity score: 0.0145614

Alignment:

DDATBWATTGTTHHDDD
---DDTATTATTTDH--

Original motif

Consensus sequence: DDATBWATTGTTHHDDD



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:

BVTTTAHTAATADH

--HDAAATAATADD

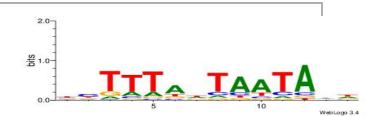
Original motif

Consensus sequence: HDTATTAHTAAAVV

Reverse complement motif

Consensus sequence: BVTTTAHTAATADH





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: 0.014968

Alignment:

DHDRGAACAATWWDHW

--HDAAATAATADD--

Original motif

Consensus sequence: DHDRGAACAATWWDHW



Reverse complement motif

Consensus sequence: WHDWWATTGTTCKDHD



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

Original motif

Consensus sequence: HVTACWGTABD



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 Reverse complement motif

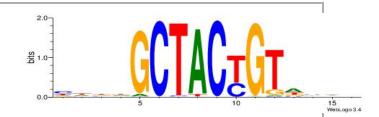
Consensus sequence: HHVHACRGTAGCHHHD Consensus sequence: HHHHGCTACKGTHVHH

Reverse complement motif

Consensus sequence: DBTACWGTAVH







Motif name: Osr1_primary
Species: Mus musculus

Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement

2

Direction: Backward

Position number:

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: Forward

Position number: 4

Number of overlap: 11

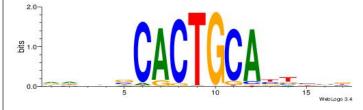
Similarity score: 0.0165381

Alignment:

BBBAVTGCAGTGBBVDD
---HVTACWGTABD---

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

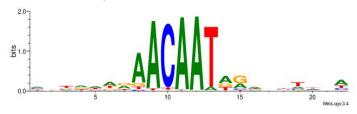
Alignment:

 ${\tt HHBDHDDAACAATDRHHHHHBW}$

----DBTACWGTAVH-----

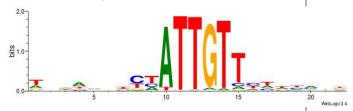
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHHMDATTGTTHDHDVHH



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

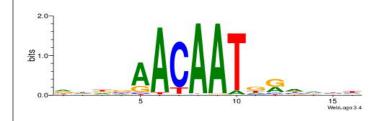
---HVTACWGTABD--

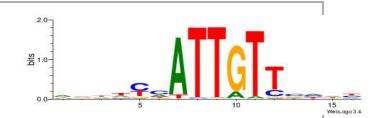
Original motif

Consensus sequence: DHDBAACAATDRHHHH

Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD





Motif name: Sox15_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: 0.0301544

Alignment:

DHVKMWATTGTTHDHDH

---HVTACWGTABD---

Original motif

Consensus sequence: HDDDDAACAATWRRBHD



Reverse complement motif

Consensus sequence: DHVKMWATTGTTHDHDH



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: HHDHDRAACAATDDVHV



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----

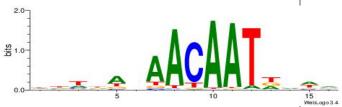
Original motif

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:

Backward

Position number: 4
Number of overlap: 11

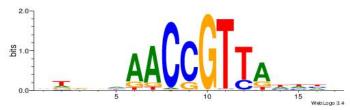
Similarity score: 0.0314236

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:

VVYBWATTGTTCVBHDV
--HVTACWGTABD----

Original motif

Consensus sequence: VVYBWATTGTTCVBHDV



Reverse complement motif

Consensus sequence: BDDBVGAACAATWBMBV



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

Original motif

Consensus sequence: DHACATTCTGH



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

 ${\tt Consensus \ sequence: \ DDBHACATCCTAKWDV}$

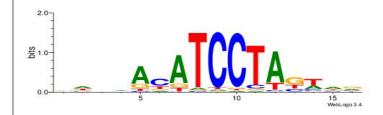
Reverse complement motif

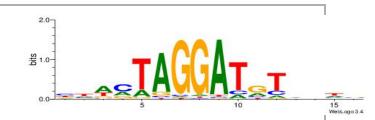
Consensus sequence: HCAGAATGTHD



Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH





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: MWSMBAARRATGCDCABHATGD



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

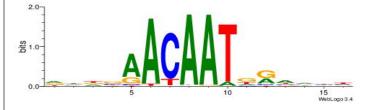
Similarity score: 0.00613057

Alignment:

HHHHMHATTGTTBDHD
--DHACATTCTGH---

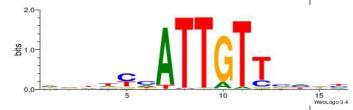
Original motif

Consensus sequence: DHDBAACAATDRHHHH



Reverse complement motif

Consensus sequence: HHHHMHATTGTTBDHD



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

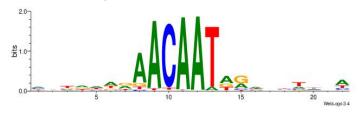
Alignment:

 ${\tt WBHHHHHMDATTGTTHDHDVHH}$

----DHACATTCTGH-----

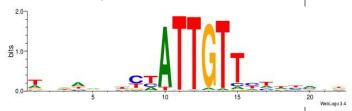
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHHMDATTGTTHDHDVHH



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:

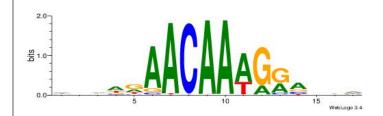
HHBTMCTTTGTTMDDVH
--DHACATTCTGH----

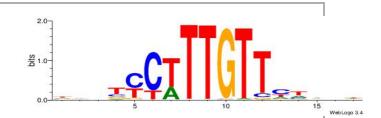
Original motif

Consensus sequence: HBDDRAACAAAGRABHH

Reverse complement motif

Consensus sequence: HHBTMCTTTGTTMDDVH





Motif 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:

WVTDHWACATGTWHDDD

----DHACATTCTGH--

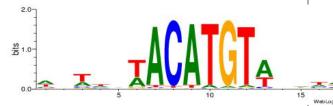
Original motif

Consensus sequence: DDDHWACATGTWHDABW



Reverse complement motif

Consensus sequence: WVTDHWACATGTWHDDD



Motif ID: <u>UP00057</u>

Motif name: Zic2_secondary
Species: Mus musculus

Matching format of first motif: Reverse Complement

Matching format of second motif: Original Motif

Direction: Forward

Position number: 5
Number of overlap: 11

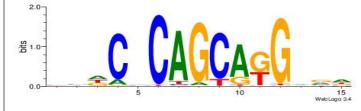
Similarity score: 0.0141401

Alignment:

HHDCVCAGCAKGVVD
----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

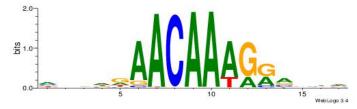
Similarity score: 0.0143902

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

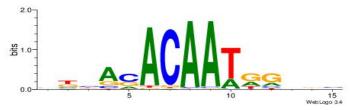
Alignment:

BKBASACAATRGHBB
---HCAGAATGTHD-

Original motif

Reverse complement motif

Consensus sequence: BKBASACAATRGHBB



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: Backward

Position number: 6

Number of overlap: 11

Similarity score: 0.015273

Alignment:

BWBHATTGTTBTHDHH DHACATTCTGH----

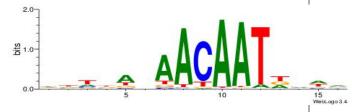
Original motif

Consensus sequence: BWBHATTGTTBTHDHH



Reverse complement motif

Consensus sequence: HHDHABAACAATHBWV



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

Original motif

Consensus sequence: DBGTAAATAHD



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---

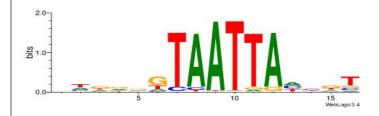
Original motif Reverse complement motif

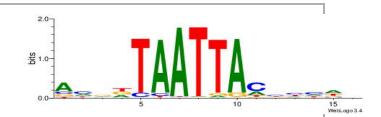
Consensus sequence: BHDDDGTAATTAHHDT Consensus sequence: AHDHTAATTACHHHHV

Reverse complement motif

Consensus sequence: DHTATTTACBD







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:

HHWAWGTAAAYAAAVDB

---DBGTAAATAHD---

Original motif

Consensus sequence: HHWAWGTAAAYAAAVDB



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:

HDHADGTAAACAAAVVH
---DBGTAAATAHD---

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: Original Motif
Matching format of second motif: Original Motif
Direction: Backward

Position number: 5
Number of overlap: 11

Similarity score: 0.00656547

Alignment:

HDHRTAAACAAAHDDD
-DBGTAAATAHD---

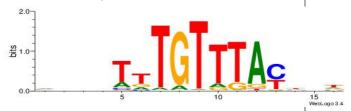
Original motif

Consensus sequence: HDHRTAAACAAAHDDD



Reverse complement motif

Consensus sequence: DDDHTTTGTTTAMHDH



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:

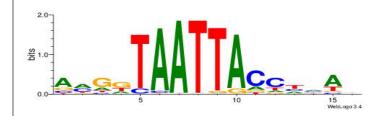
DTHHGGTAATTAYCYT
---DBGTAAATAHD--

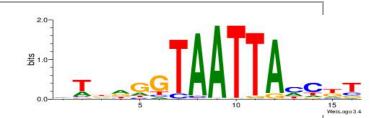
Original motif

Consensus sequence: AMGKTAATTACCHHAD

Reverse complement motif

Consensus sequence: DTHHGGTAATTAYCYT





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 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 -DBGTAAATAHD----

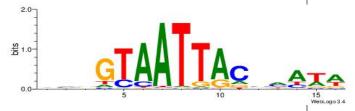
Original motif

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:

WABKTAATTAHKHHHD
-DBGTAAATAHD----

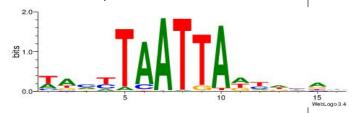
Original motif

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

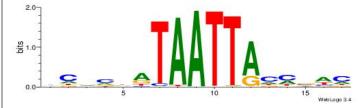
Similarity score: 0.0107458

Alignment:

GHVRGTAATTATDVVGV
--DBGTAAATAHD----

Original motif

Consensus sequence: BCVVDATAATTACMVHC



Reverse complement motif

Consensus sequence: GHVRGTAATTATDVVGV



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