

MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters			
Number of files:	5		
Number of top significant motifs:	5		
Number of best matches:	5		
Similarity cutoff >=	0.75		
Matching motif database:	UniProbe Mus	s Musculus	
Motif tree:	Yes		
Combined similar motifs:	Yes		
Output file type:	All		
Output file format:	All		
Input files and motif counts			
File name		Count of motifs	Dataset number
DREME_DM230.txt		1	1
MEME_DM230.txt		20	2
PScanChIP_DM230.txt		14	3
RSAT_peak-motifs_DM230.txt		10	4
W-ChIPMotifs_DM230.txt		11	5

RESULTS

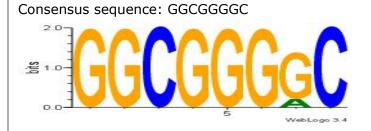
Best Matches in Database for Each Motif (Highest to Lowest)

Dataset #: 1

Motif ID: 1

Motif name: Motif 1

Original motif



Consensus sequence: GCCCCGCC 2.0

Reverse complement motif

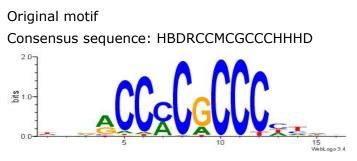


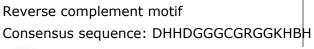
Best Matches for Motif ID 1 (Highest to Lowest)

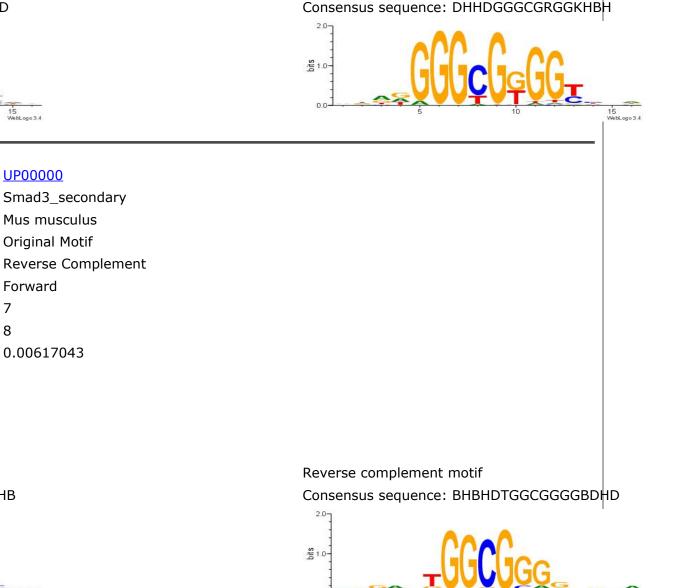
Motif ID:	<u>UP00093</u>
Motif name:	Klf7_primary
Species:	Mus musculu
Matching format of first motif:	Reverse Con
Matching format of second motif:	Original Moti
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0
Alignment:	

HBDRCCMCGCCCHHHD ---GCCCCGCC-----

ъ us mplement tif







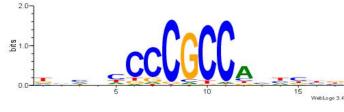
Motif name:SmallSpecies:MusMatching format of first motif:OrigMatching format of second motif:RevoDirection:ForvPosition number:7Number of overlap:8Similarity score:0.00

Alignment: BHBHDTGGCGGGGBDHD -----GGCGGGGC---

Original motif

Motif ID:

Consensus sequence: DHHBCCCCGCCAHHBHB



WebLogo 3.4

Motif ID:	<u>UP00002</u>
Motif name:	Sp4_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0145996
Alignment:	
BDWAGGCGTGBCHHD	

----GGCGGGGC---

Original motif

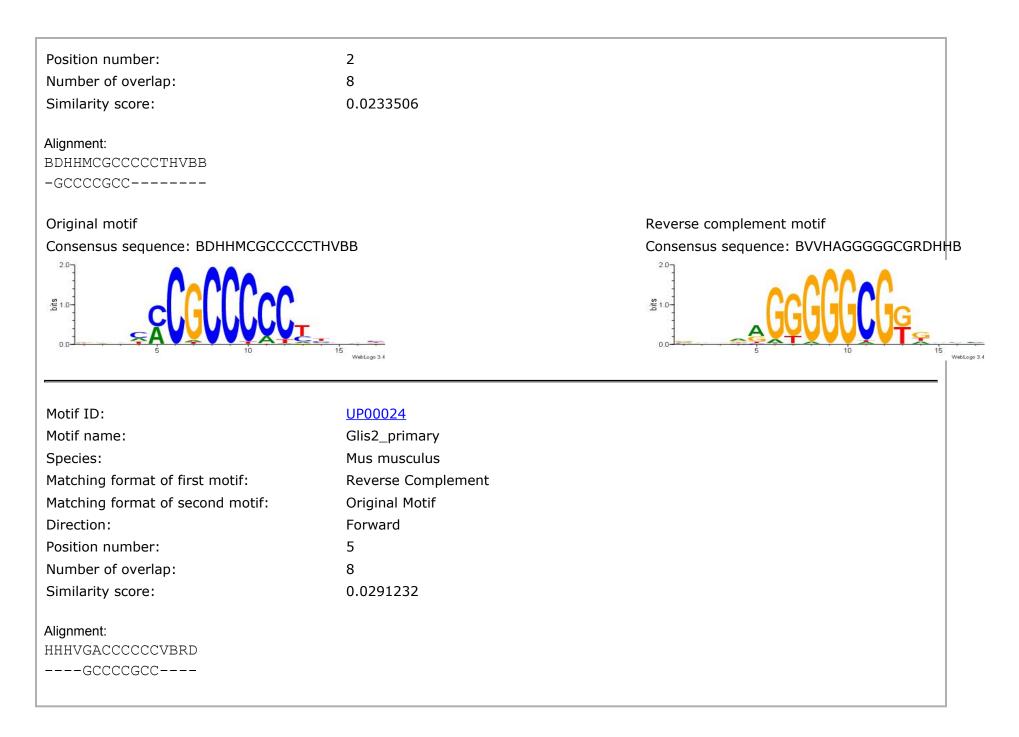
Consensus sequence: BDWAGGCGTGBCHHD

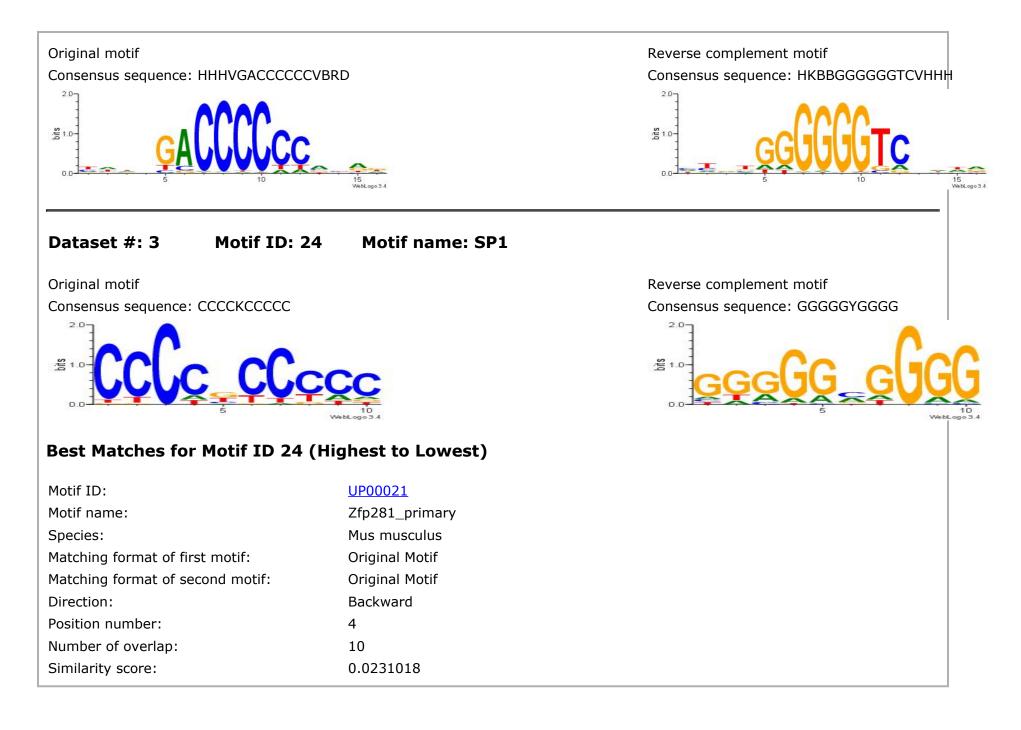


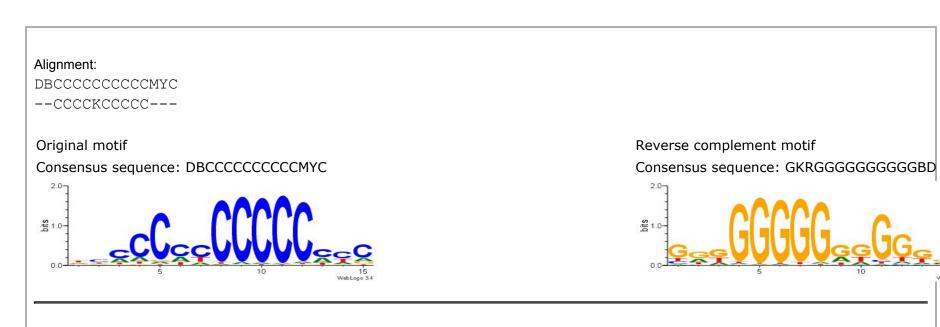
Reverse complement motif Consensus sequence: HHDGBCACGCCTWDB



Motif ID:	<u>UP00002</u>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward

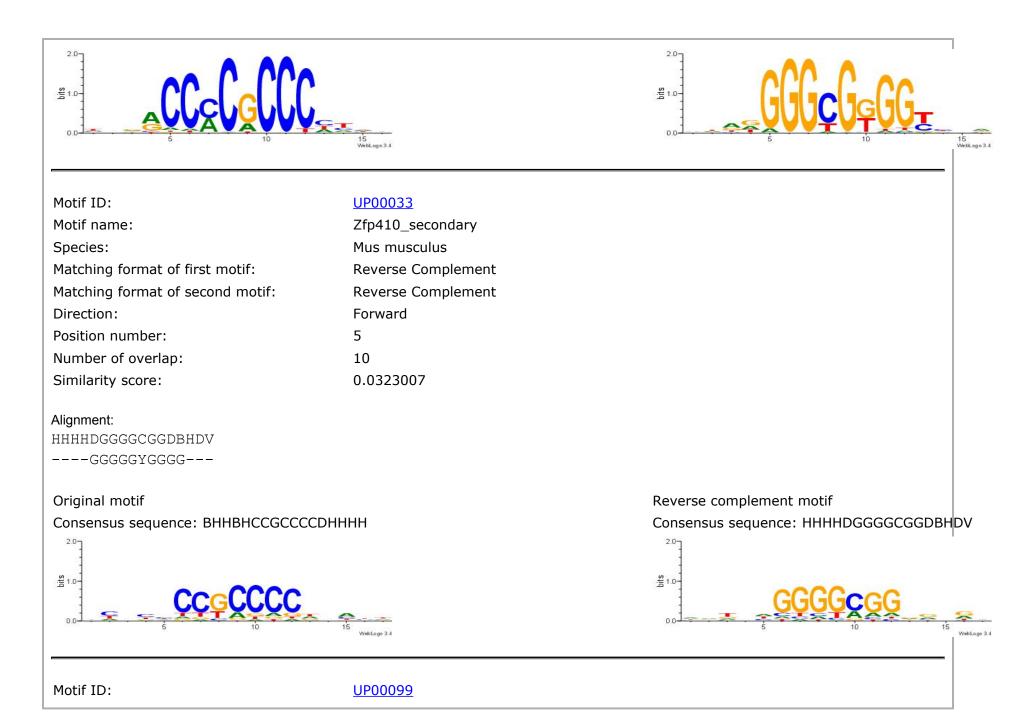






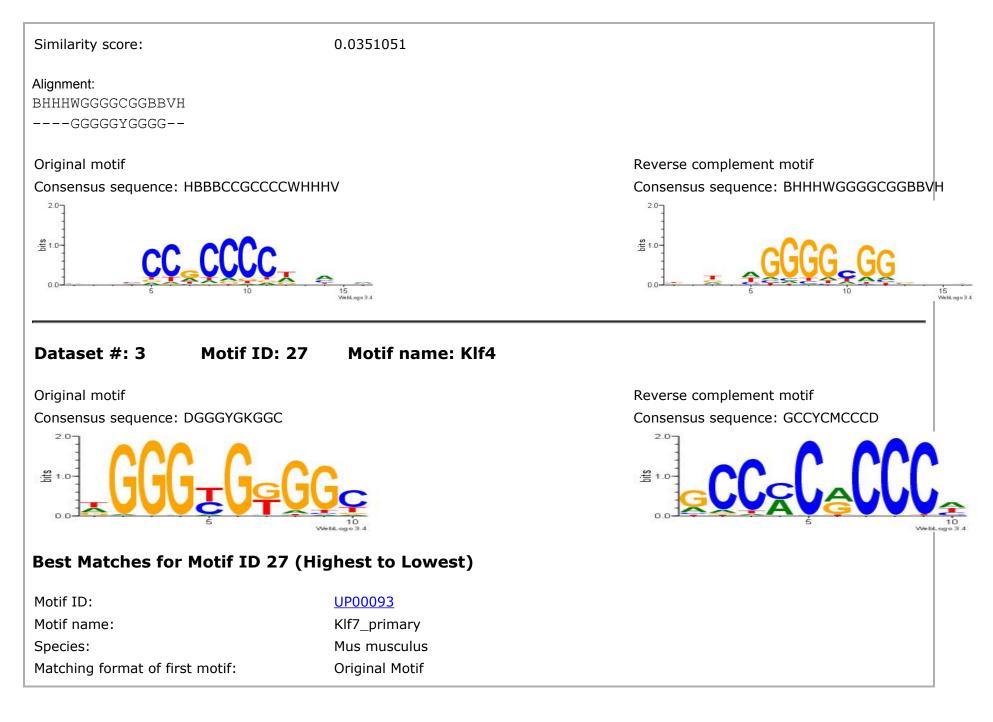
Motif ID:	<u>UP00093</u>	
Motif name:	Klf7_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	3	
Number of overlap:	10	
Similarity score:	0.0303207	
Alignment:		
HBDRCCMCGCCCHHHD		
CCCCKCCCCC		
Original motif		Reverse complement motif
Consensus sequence: HBDRCCMCGCC	ССНННД	Consensus sequence: DHHDGGGCGRGGKHBH

15 WebLogo 34



NA 110	A 12 1	
Motif name:	Ascl2_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	3	
Number of overlap:	10	
Similarity score:	0.0340973	
Alignment:		
HVDVGGGHGGGGDBHB		
GGGGGYGGGG		
Original motif		Reverse complement motif
Consensus sequence: BHVDCCCCDCCC	BDBH	Consensus sequence: HVDVGGGHGGGGDBHB
2.0 		20 3 5 5 1.0
		GGG GGG
	15 ViekLogo 3.4	
	15 WebLoge 3.4	
Motif ID:	15 WebLogo 3.4	
	WebLoge 3.4	
Motif ID: Motif name: Species:	WebLoge 3.4	
Motif name:	UP00043 Bcl6b_secondary	
Motif name: Species:	UP00043 Bcl6b_secondary Mus musculus	
Motif name: Species: Matching format of first motif:	UP00043 Bcl6b_secondary Mus musculus Reverse Complement	
Motif name: Species: Matching format of first motif: Matching format of second motif:	UP00043 Bcl6b_secondary Mus musculus Reverse Complement Reverse Complement	

Page 9 of 23



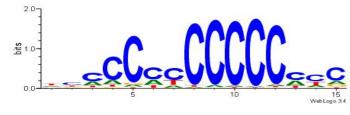
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	4	
Number of overlap:	10	
Similarity score:	0	
Alignment:		
DHHDGGGCGRGGKHBH		
DGGGYGKGGC		
Original motif		Reverse complement motif
Consensus sequence: HBDRCCMCGCC	СНННО	Consensus sequence: DHHDGGGCGRGGKHBH
	15 WebLogo 3.4	
Motif ID:	15 WeikLogo 3.4	
Motif ID: Motif name:	15 VebLoge 3.4	
Motif ID: Motif name: Species:	UP00021 Zfp281_primary	
Motif ID: Motif name: Species: Matching format of first motif:	UP00021 Zfp281_primary Mus musculus	
	UP00021 Zfp281_primary Mus musculus Reverse Complement	
Motif ID: Motif name: Species: Matching format of first motif: Matching format of second motif:	UP00021 Zfp281_primary Mus musculus Reverse Complement Original Motif	
Motif ID: Motif name: Species: Matching format of first motif: Matching format of second motif: Direction:	UP00021 Zfp281_primary Mus musculus Reverse Complement Original Motif Forward	

DBCCCCCCCCCMYC

---GCCYCMCCCD--

Original motif

Consensus sequence: DBCCCCCCCCCMYC





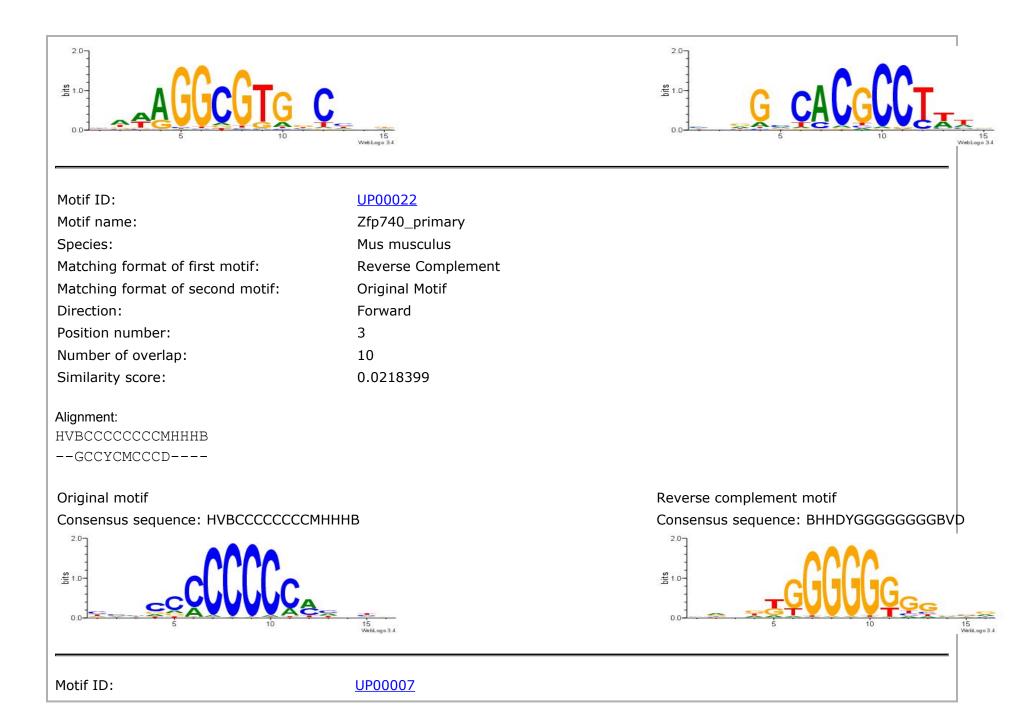
15 WebLogo 3.4

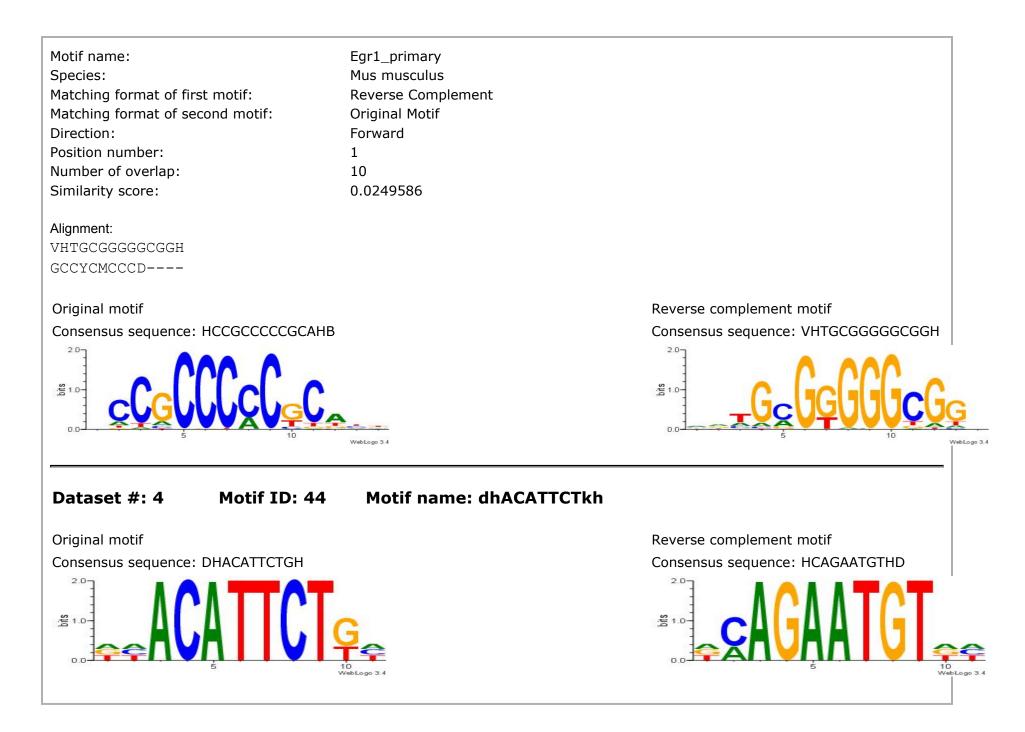
Reverse complement motif

2.0-

-te 1.0

Consensus sequence: GKRGGGGGGGGGGBD





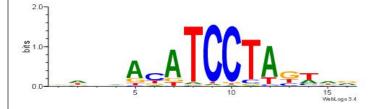
Best Matches for Motif ID 44 (Highest to Lowest)

Motif ID:	<u>UP00038</u>
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



Motif ID:	
Motif name:	
Species:	

Matching format of first motif:

<u>UP00528</u>

Foxm1_secondary Mus musculus Original Motif Reverse complement motif

Consensus sequence: VDWYTAGGATGTHVDH



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		Reverse complement motif
Consensus sequence: MWSMBAARRAT	GCDCABHATGD	Consensus sequence: DCATDBTGHGCATKMTTBRSV
	20 Vehiclogo 3.4	

Motif ID:	<u>UP00023</u>
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:	

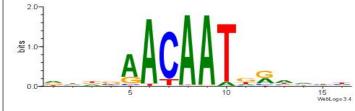
Page 16 of 23

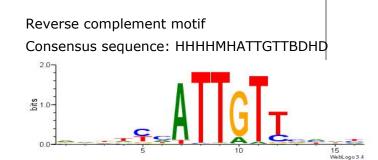
HHHHMHATTGTTBDHD

--DHACATTCTGH---

Original motif

Consensus sequence: DHDBAACAATDRHHHH

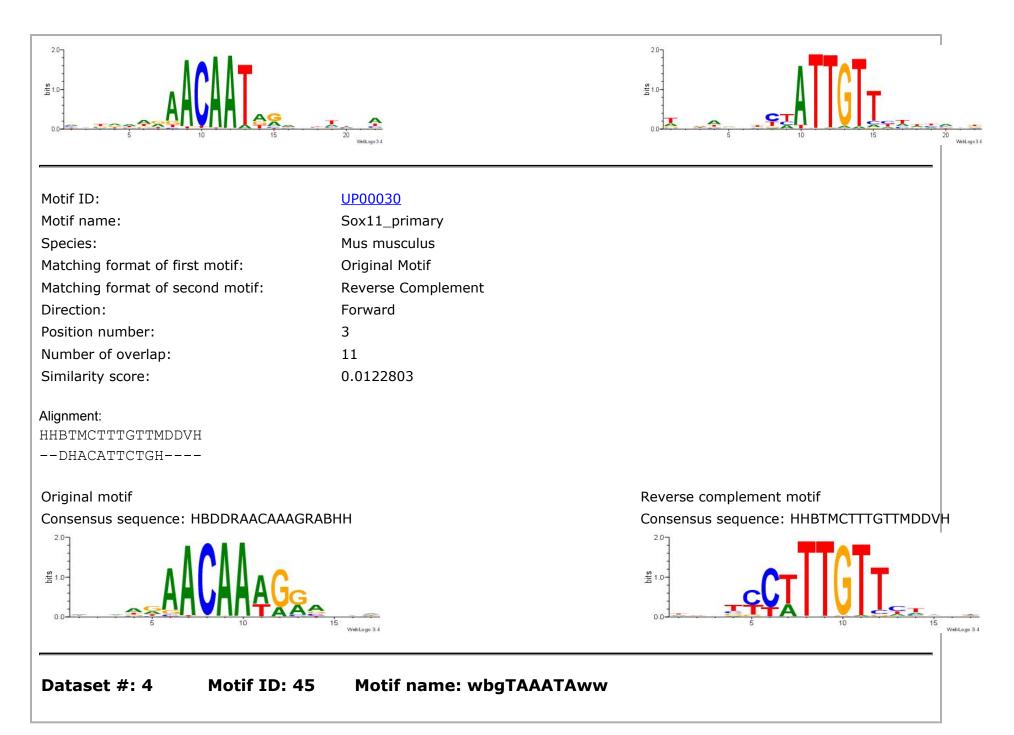


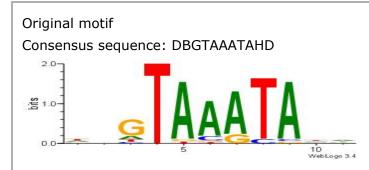


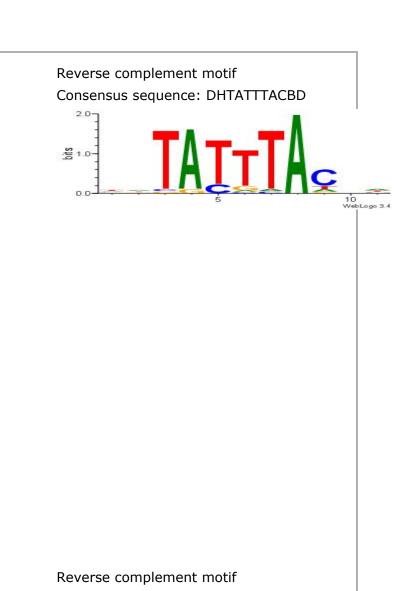
Motif ID:	<u>UP00034</u>	
Motif name:	Sox7_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	6	
Number of overlap:	11	
Similarity score:	0.0119275	
Alignment:		
WBHHHHHMDATTGTTHDHDVHH		
DHACATTCTGH		
Original motif	Reverse complement motif	

Consensus sequence: HHBDHDDAACAATDRHHHHHBW Consensus sequence: WBHHHHHMDATTGTTHDHDVHH

Page 17 of 23

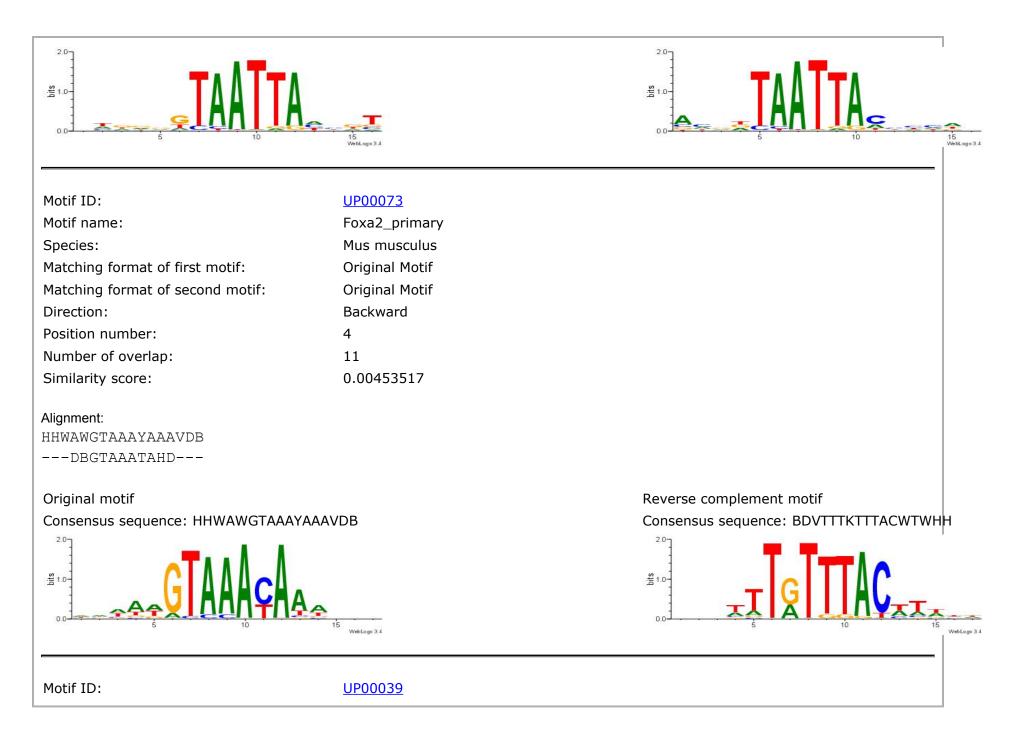






Best Matches for Motif ID 45 (Highest to Lowest)

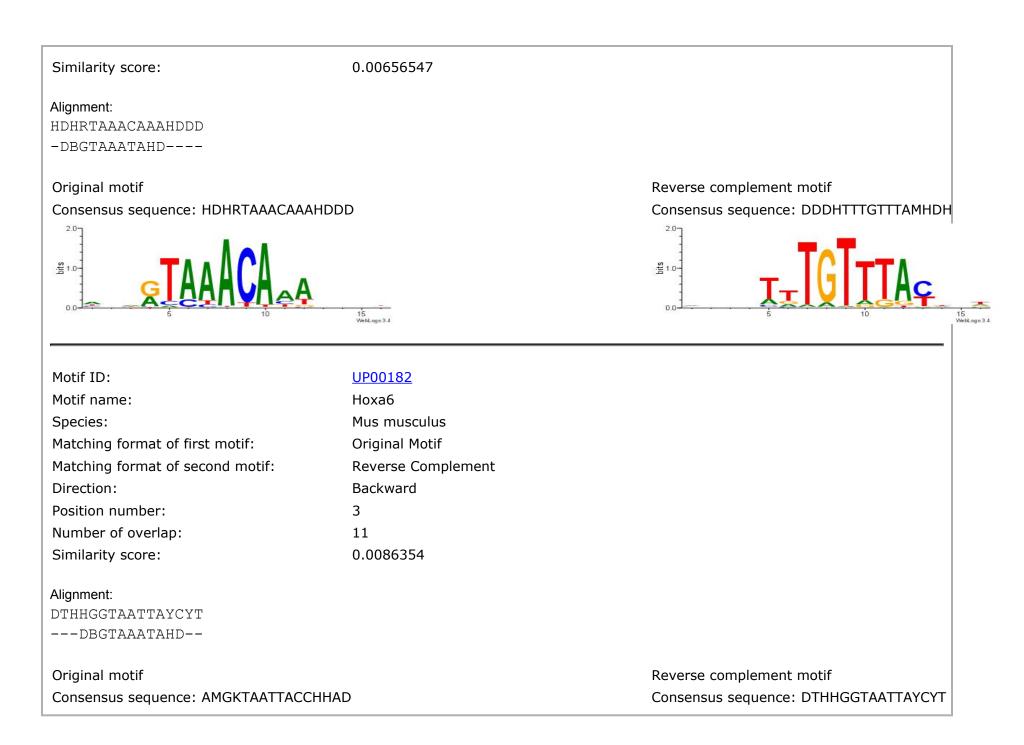
Motif ID:	<u>UP00242</u>		
Motif name:	Hoxc8		
Species:	Mus musculus		
Matching format of first motif:	Reverse Complement		
Matching format of second motif:	Reverse Complement		
Direction:	Forward		
Position number:	3		
Number of overlap:	11		
Similarity score:	0		
Alignment:			
AHDHTAATTACHHHHV			
DHTATTTACBD			
Original motif		Reverse complement motif	
Consensus sequence: BHDDDGTAATTAHHD	т	Consensus sequence: AHDHTAATTACHHHHV	



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		Reverse complement motif
Consensus sequence: HDHADGTAAACA	AAVVH	Consensus sequence: DVVTTTGTTTACDTHDH
	15 WebLopp 3.4	



Motif ID:	<u>UP00041</u>	
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	
	11 	





Results created by MOTIFSIM on 08-29-2022 00:31:53 Runtime: 358.862 seconds

MOTIFSIM is written by Ngoc Tam L. Tran Motif logo generated by <u>weblogo</u>