

MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.1

INPUT

Input Parameters			
Number of files:	5		
Number of top significant motifs:	10		
Number of best matches:	10		
Similarity cutoff >=	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
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

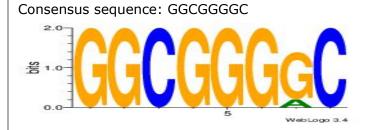
Best Matches in Database for Each Motif (Highest to Lowest)

Dataset #: 1

Motif ID: 1

Motif name: Motif 1

Original motif



Reverse complement motif Consensus sequence: GCCCCGCC



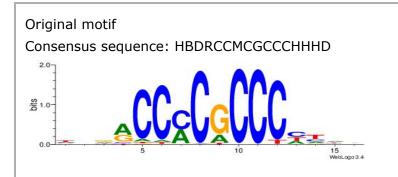
Best Matches for Motif ID 1 (Highest to Lowest)

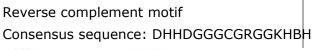
Motif ID:	<u>UP00093</u>
Motif name:	Klf7_primary
Species:	Mus musculi
Matching format of first motif:	Reverse Cor
Matching format of second motif:	Original Mot
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0
Alignment:	

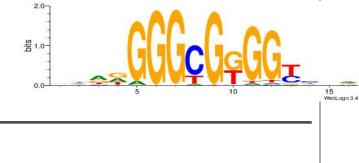
HBDRCCMCGCCCHHHD

Klf7_primary Mus musculus Reverse Complement Driginal Motif Backward 5

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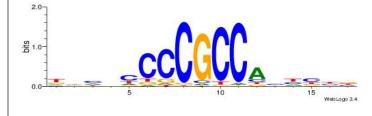


Motif ID:	<u>UP00000</u>
Motif name:	Smad3_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.00617043

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

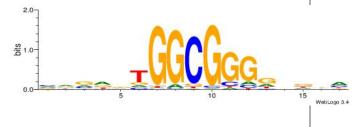
Original motif

Consensus sequence: DHHBCCCCGCCAHHBHB



Reverse complement motif

Consensus sequence: BHBHDTGGCGGGGBDHD



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:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0145996
Alignment:	
BDWAGGCGTGBCHHD	
GGCGGGGC	

Original motif

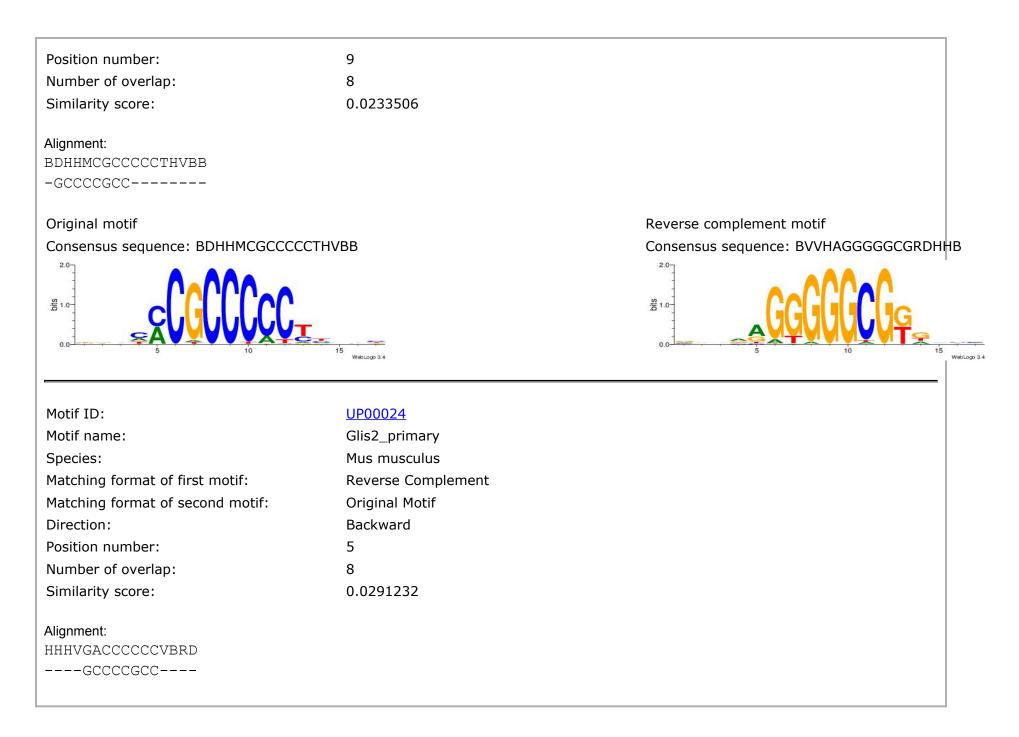
Consensus sequence: BDWAGGCGTGBCHHD

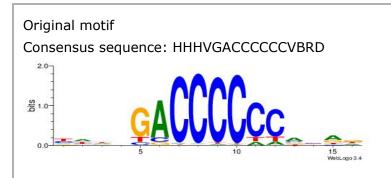


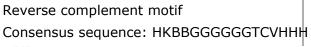
Reverse complement motif Consensus sequence: HHDGBCACGCCTWDB

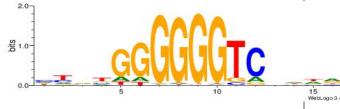


Motif ID:	<u>UP00002</u>
Motif name:	Sp4_primary
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
1	







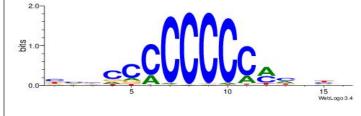


1otif ID:	<u>UP00022</u>	
1otif name:	Zfp740_primary	
Species:	Mus musculus	
latching format of first motif:	Original Motif	
latching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	6	
Number of overlap:	8	
Similarity score:	0.0338469	

Alignment: BHHDYGGGGGGGGBVD ----GGCGGGGC---

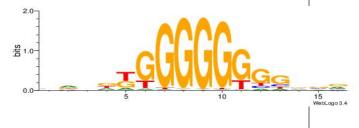
Original motif

Consensus sequence: HVBCCCCCCCMHHHB



Reverse complement motif

Consensus sequence: BHHDYGGGGGGGGGBVD



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:	4
Number of overlap:	8
Similarity score:	0.0361147

Alignment:

HCCGCCCCGCAHB

---GCCCCGCC---

Original motif

Consensus sequence: HCCGCCCCGCAHB

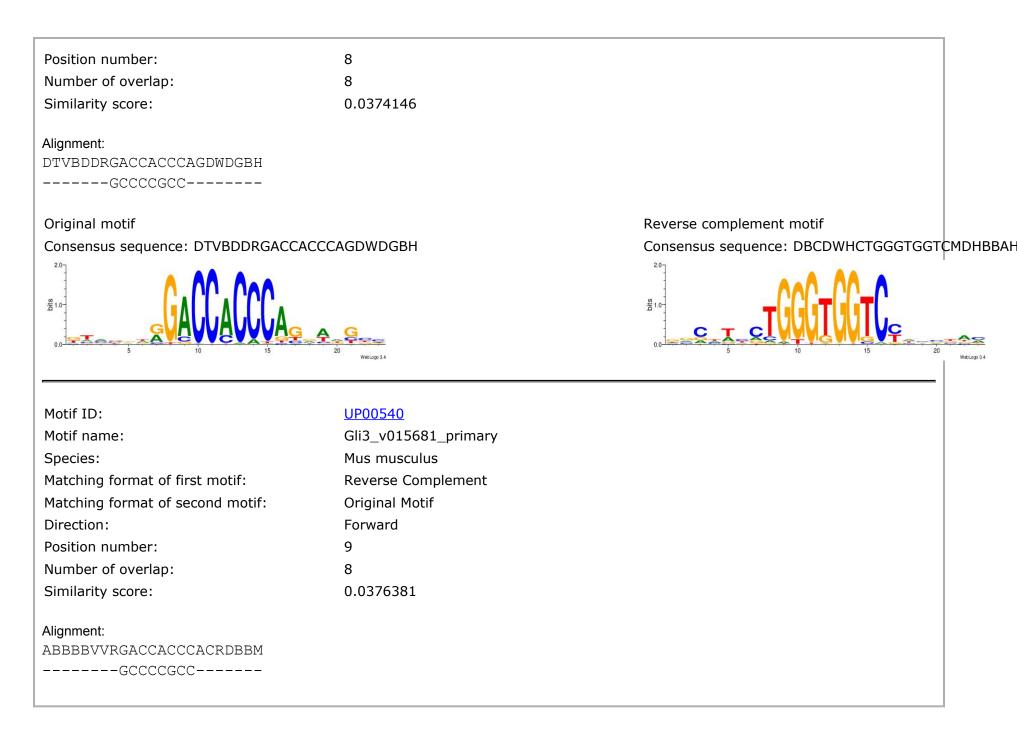


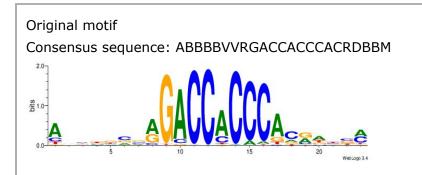
Reverse complement motif Consensus sequence: VHTGCGGGGGGCGGH



otif ID:	<u>UP00539</u>
otif name:	Gli2_v016060_primary
pecies:	Mus musculus
atching format of first motif:	Reverse Complement
atching format of second motif:	Original Motif
irection:	Forward
atching format of first motif: atching format of second motif:	Reverse Complement Original Motif

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<u>UP00021</u>

Forward

0.0392043

4

8

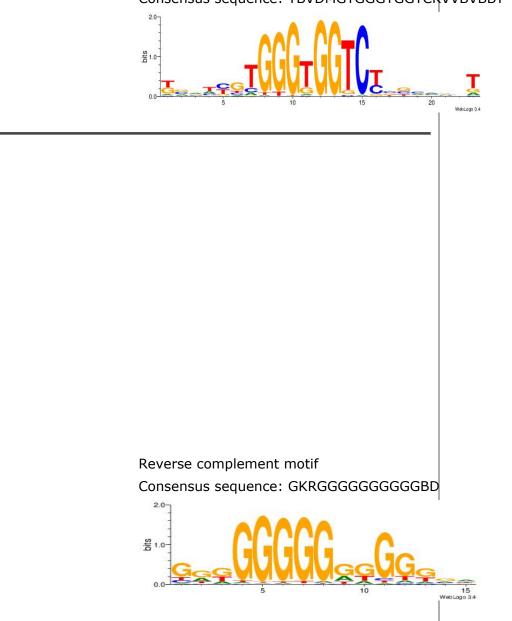
Zfp281_primary

Reverse Complement

Mus musculus

Original Motif

Reverse complement motif Consensus sequence: YBVDMGTGGGTGGTCKVVBVBBT



Similarity score: Alignment: GKRGGGGGGGGGGBD

Matching format of first motif:

Matching format of second motif:

---GGCGGGGC----

Original motif

Motif ID:

Species:

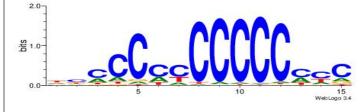
Direction:

Position number:

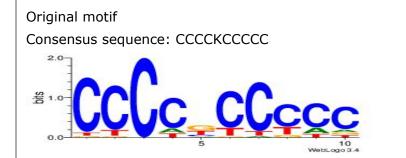
Number of overlap:

Motif name:

Consensus sequence: DBCCCCCCCCCMYC



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



Best Matches for Motif ID 24 (Highest to Lowest)

Motif ID:	<u>UP00021</u>	
Motif name:	Zfp281_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	4	
Number of overlap:	10	
Similarity score:	0.0231018	
Alignment:		
DBCCCCCCCCCMYC		
CCCCKCCCCC		
Original motif		Reverse complei
	Motif name: Species: Matching format of first motif: Matching format of second motif: Direction: Position number: Number of overlap: Similarity score: Alignment: DBCCCCCCCCMYC	Motif name:Zfp281_primarySpecies:Mus musculusMatching format of first motif:Original MotifMatching format of second motif:Original MotifDirection:BackwardPosition number:4Number of overlap:10Similarity score:0.0231018

Consensus sequence: DBCCCCCCCCCMYC

Reverse complement motif Consensus sequence: GKRGGGGGGGGGGGBD

Reverse complement motif

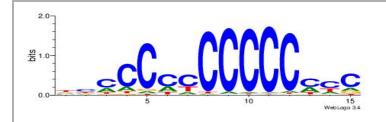
2.0-

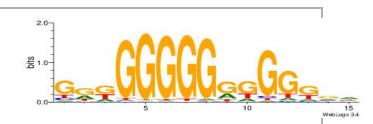
-Sig 1.0

0.0

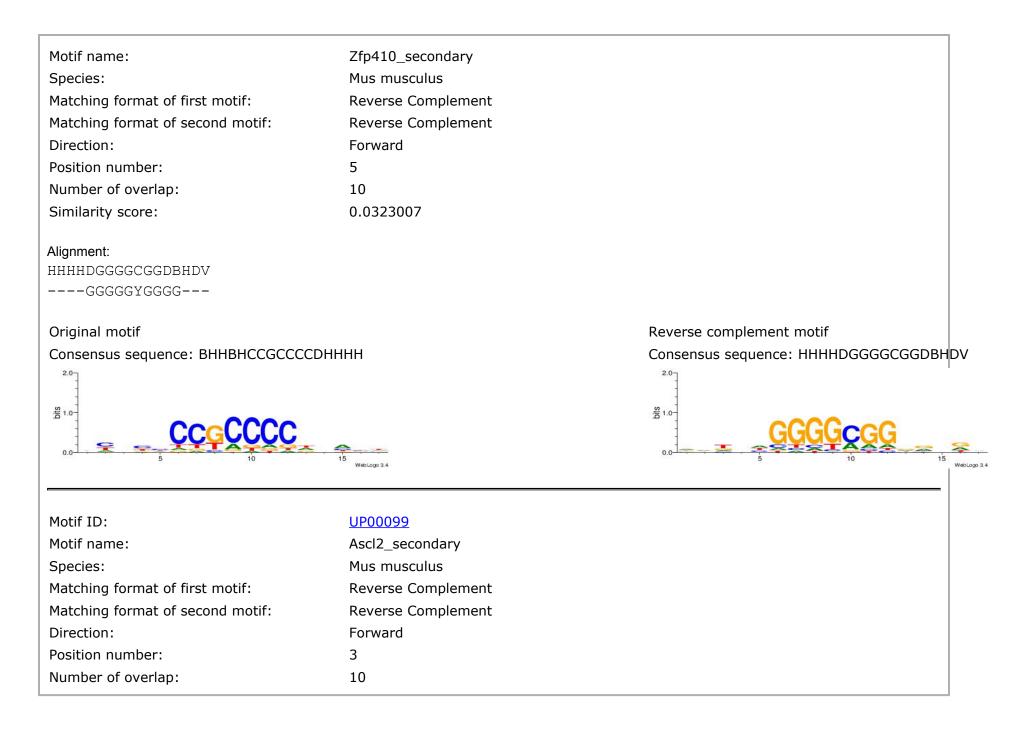
Consensus sequence: GGGGGYGGGG

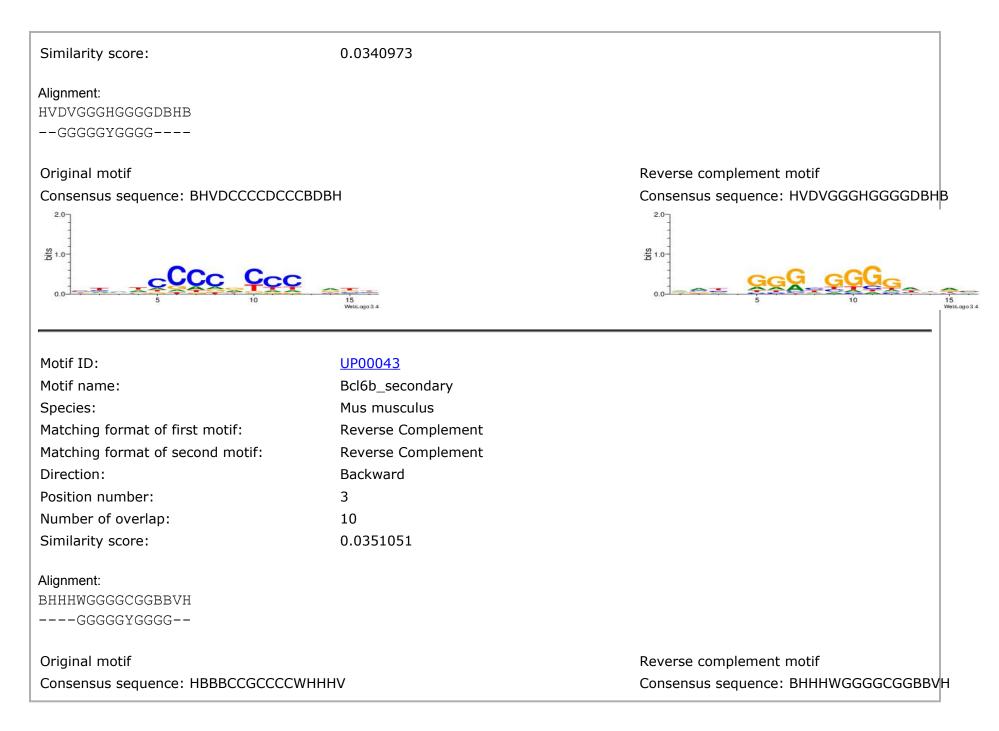
10 WebLogo 3.4

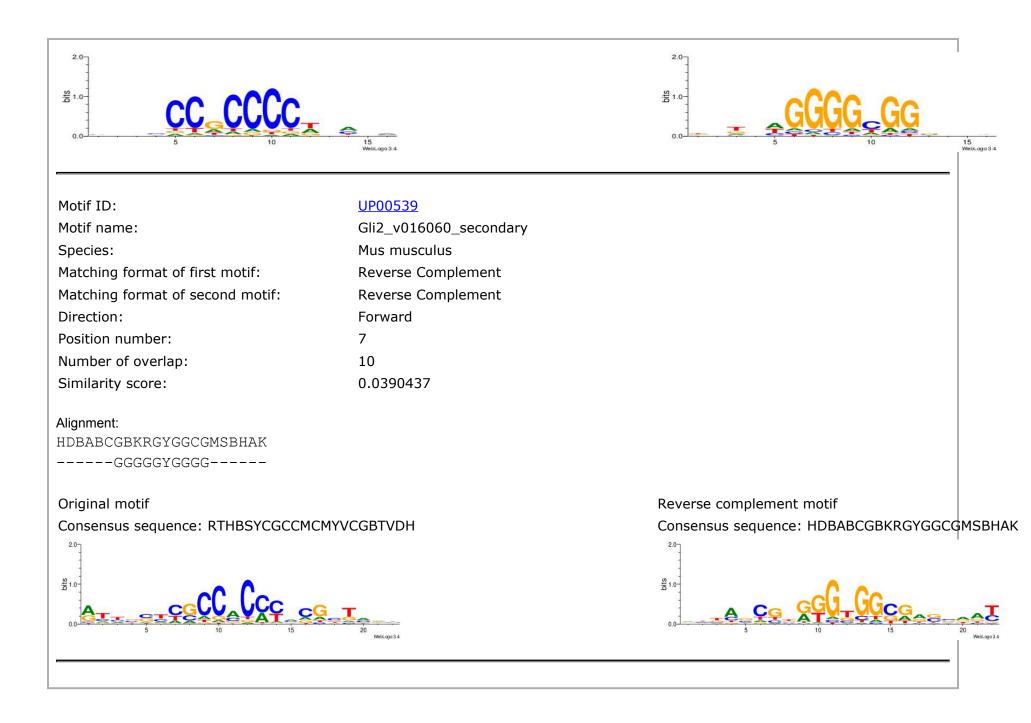




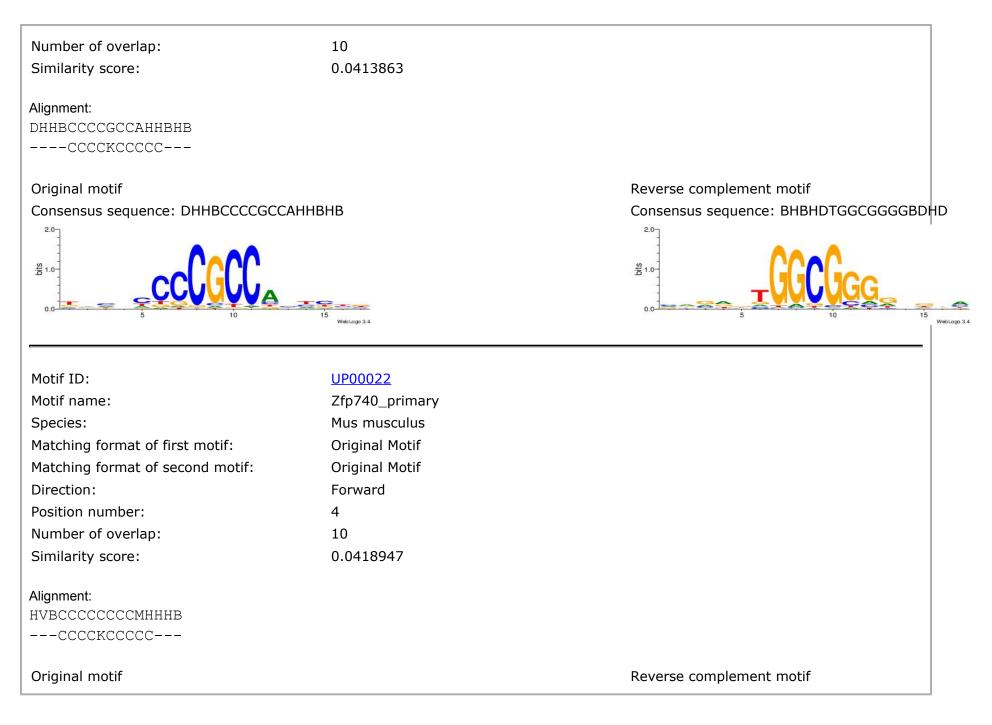
Motif ID:	<u>UP00093</u>	
Motif name:	Klf7_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	3	
Number of overlap:	10	
Similarity score:	0.0303207	
CCCCKCCCC Original motif		Reverse complement motif
Consensus sequence: HBDRCCMCGCC	СНННД	Consensus sequence: DHHDGGGCGRGGKHBH
	15 WetsLogo 3.4	
Motif ID:	<u>UP00033</u>	

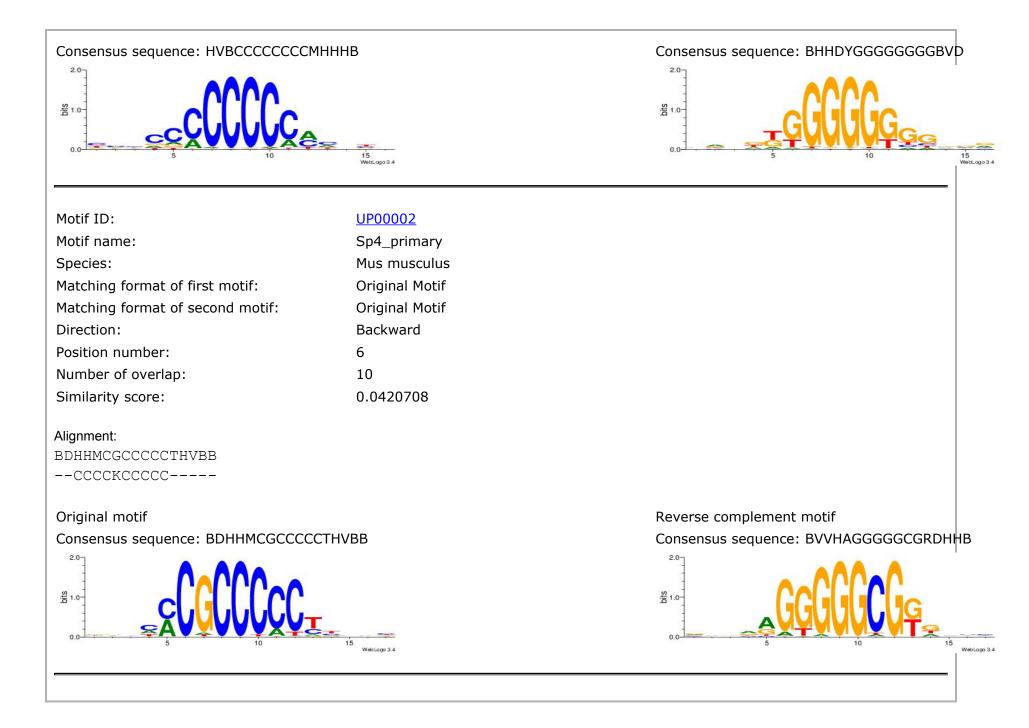




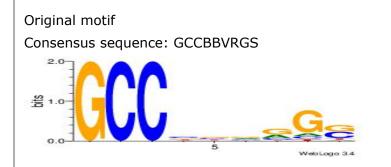


Motif ID:	<u>UP00540</u>	
Motif name:	Gli3_v016060_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	7	
Number of overlap:	10	
Similarity score:	0.0393358	
Alignment: HHBSHTCGTGRGTGGKGDBVWMV		
GGGGGYGGGG		
Original motif		Reverse complement motif
Consensus sequence: VYWVVHCRCCAC	CMCACGAHSBHH	Consensus sequence: HHBSHTCGTGRGTGGKGDBVWM
Motif ID:	<u>UP00000</u>	
Motif name:	Smad3_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
	Original Motif	
Matching format of second motif:		
Matching format of second motif: Direction:	Backward	





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



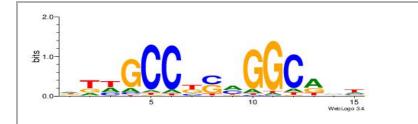


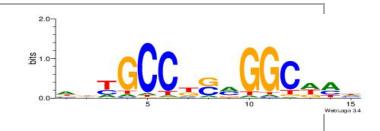
0.0

Best Matches for Motif ID 25 (Highest to Lowest)

Motif ID:	<u>UP00010</u>
Motif name:	Tcfap2b_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0115546
Alignment: HHKGCCYSRGGCWAD GCCBBVRGS	
Original motif	Reverse complement motif
Consensus sequence: DTWGCCKSMGGCRH	H Consensus sequence: HHKGCCYSRGGCWAD

WebLogo 3.4





Motif ID:	<u>UP00010</u>	
Motif name:	Tcfap2b_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Forward	
Position number:	3	
Number of overlap:	9	
Similarity score:	0.0150447	
Alignment: DYGCCYBARGGCAH GCCBBVRGS		
Original motif		Reverse complement motif
Consensus sequence: DYGCCYBARGGCAH		Consensus sequence: HTGCCMTVKGGCMD
	WebLogo 3.4	
Motif ID:	<u>UP00005</u>	

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

Consensus sequence: WDHSCCYSRGGSRAD



Consensus sequence: DTMSCCKSMGGSHDW



Motif ID:	<u>UP00087</u>	
Motif name:	Tcfap2c_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	4	
Number of overlap:	9	

Similarity score:

0.016909

Alignment:

WHHSCCYSRGGSDAD

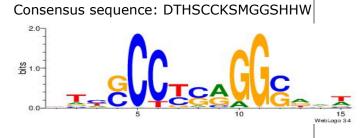
---GCCBBVRGS---

Original motif

Consensus sequence: WHHSCCYSRGGSDAD

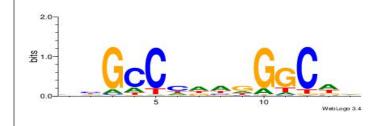


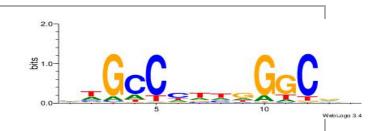
Reverse complement motif



Motif ID:	<u>UP00087</u>
Motif name:	Tcfap2c_secondary
Species:	Mus musculus
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0170259
Alignment:	
BHGCCCDAGGGCWD	
GCCBBVRGS	

Original motif Consensus sequence: BHGCCCDAGGGCWD Reverse complement motif Consensus sequence: HWGCCCTDGGGCDB

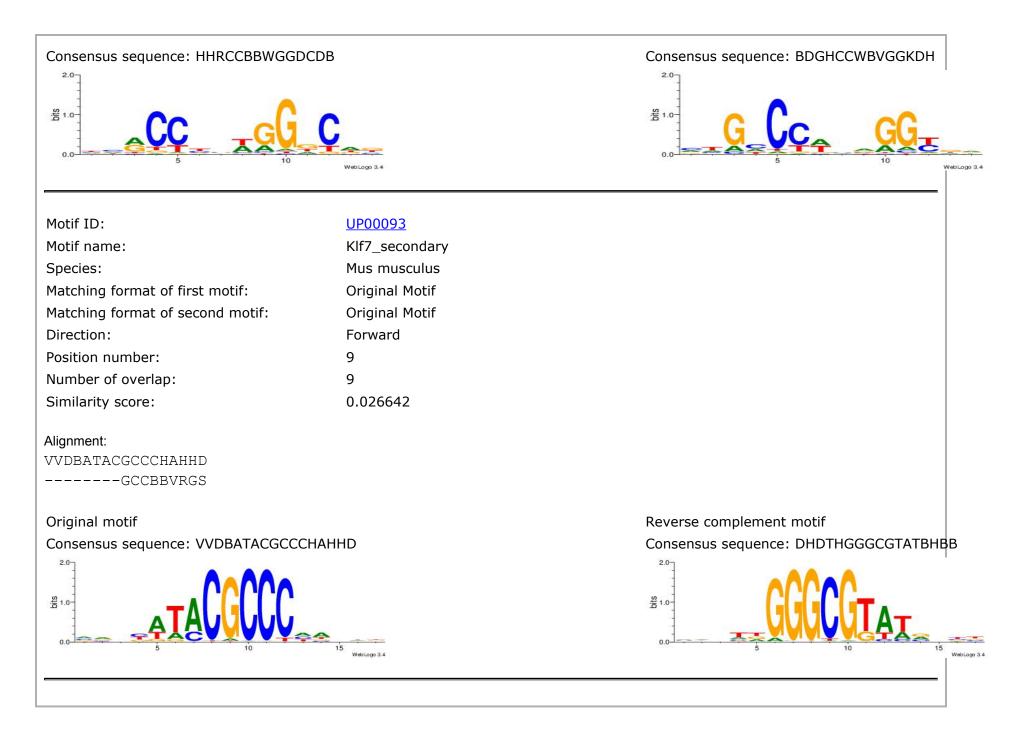




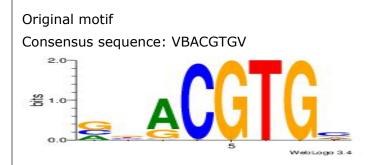
Motif ID:	<u>UP00028</u>	
Motif name:	Tcfap2e_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Forward	
Position number:	4	
Number of overlap:	9	
Similarity score:	0.0198854	
Alignment: HHHGCCTSAGGCDAD GCCBBVRGS		
Original motif		Reverse complement motif
Consensus sequence: HHHGCCTSAGGC	DAD	Consensus sequence: DTHGCCTSAGGCHHH
	15 WebLogo 3.4	²⁰ ¹⁰ ¹⁵ ¹⁵ ¹⁰ ¹⁵ ¹⁵ ¹⁰

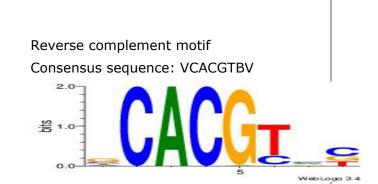
Motif ID:	<u>UP00000</u>	
Motif name:	Smad3_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	9	
Number of overlap:	9	
Similarity score:	0.0203681	
Alignment:		
BHBHDTGGCGGGGBDHD		
SCMVBBGGC		
Original motif		Reverse complement motif
Consensus sequence: DHHBCCCCGCC/	\HHBHB	Consensus sequence: BHBHDTGGCGGGGBDHD
	15 WebLogo 3.4	
Motif ID:	15 WebLago 3.4	0.0 5 TVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
	<u>UP00003</u> E2F3_secondary	
Motif name:	<u>UP00003</u>	
Motif name: Species:	<u>UP00003</u> E2F3_secondary	
Motif name: Species: Matching format of first motif:	<u>UP00003</u> E2F3_secondary Mus musculus	
Motif ID: Motif name: Species: Matching format of first motif: Matching format of second motif: Direction:	UP00003 E2F3_secondary Mus musculus Reverse Complement	

Number of overlap: 9 Similarity score: 0.0217064 Alignment: BBBDYTGGCGCCKWDBD SCMVBBGGC-----Original motif Reverse complement motif Consensus sequence: HBHWYGGCGCCAMDVBB Consensus sequence: BBBDYTGGCGCCKWDBD 2.0 2.0-Stig 1.0-Stig 1.0-15 WebLogo 3.4 15 WebLogo 3.4 Motif ID: <u>UP00005</u> Motif name: Tcfap2a_secondary Species: Mus musculus Matching format of first motif: **Original Motif** Matching format of second motif: **Original Motif** Direction: Forward Position number: 3 Number of overlap: 9 0.0234775 Similarity score: Alignment: HHRCCBBWGGDCDB --GCCBBVRGS---Original motif Reverse complement motif



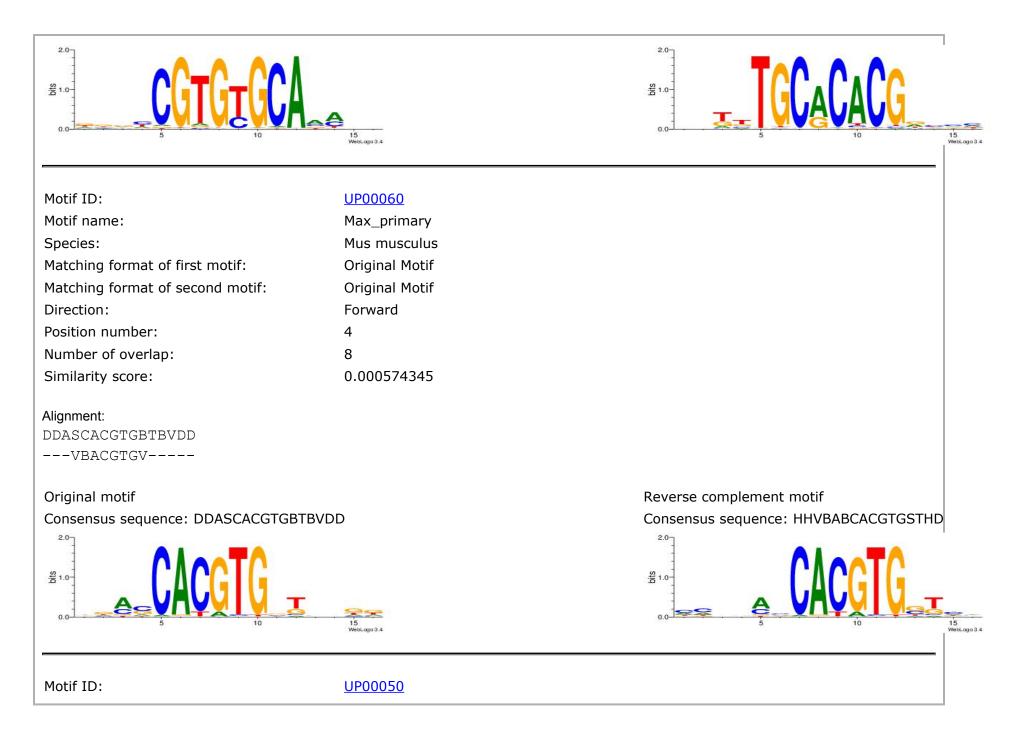
Dataset #: 3 Motif ID: 29 Motif name: HIF1AARNT





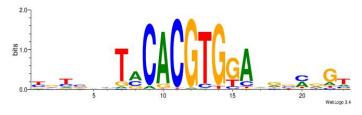
Best Matches for Motif ID 29 (Highest to Lowest)

Motif ID:	<u>UP00097</u>	
Motif name:	Mtf1_primary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	2	
Number of overlap:	8	
Similarity score:	0	
Alignment: HDYTTGCACACGDHBH VCACGTBV-		
Original motif	F	Reverse complement motif
Consensus sequence: DBDHCGTGTGCAAN	IDH (Consensus sequence: HDYTTGCACACGDHBH

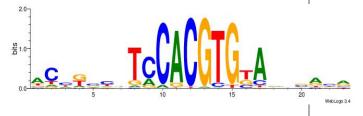


Motif name:	Bhlhb2_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	9	
Number of overlap:	8	
Similarity score:	0.00642455	
Alignment:		
YDYBDHTMCACGTGGADDBMDGT		
VBACGTGV		
Original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

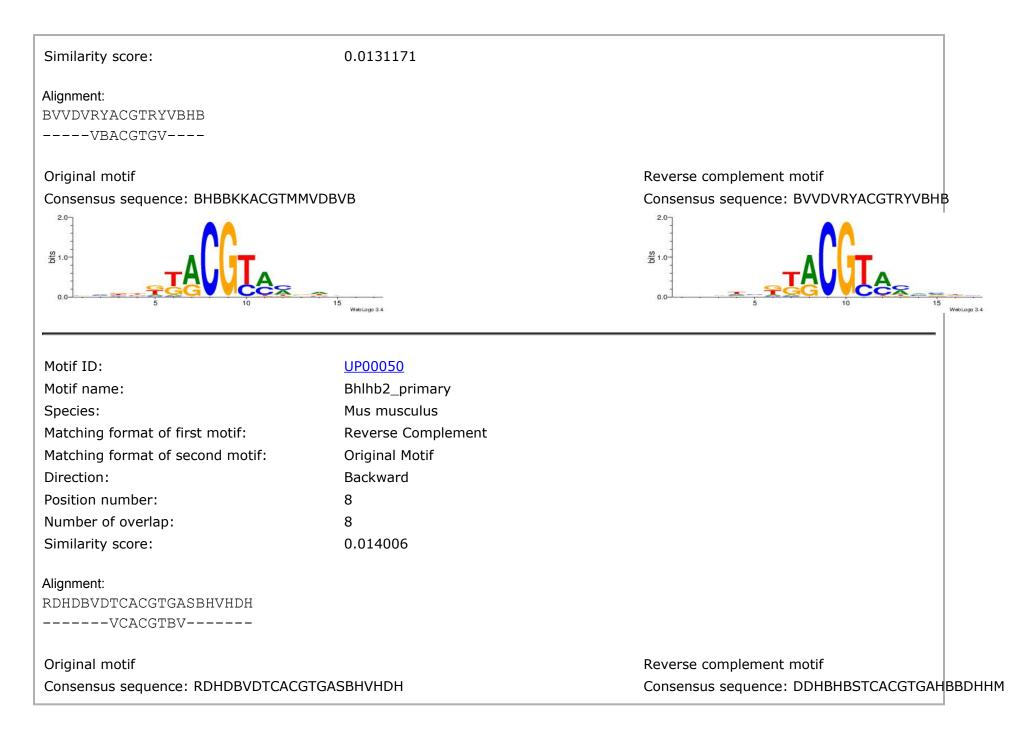
Consensus sequence: YDYBDHTMCACGTGGADDBMDGT

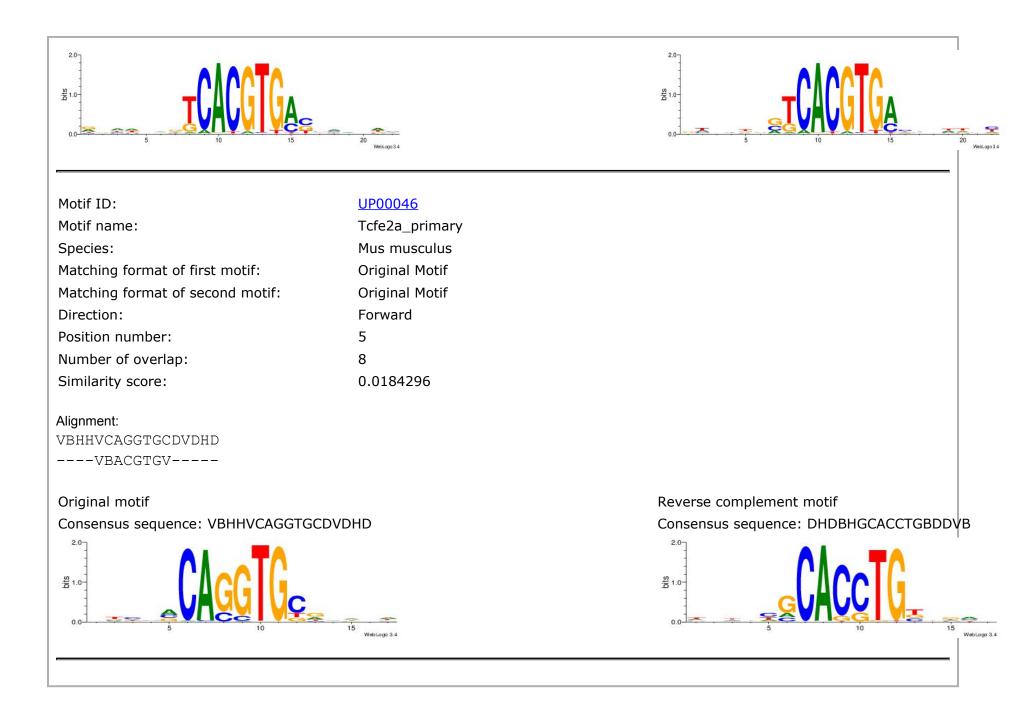


Consensus sequence: ACHRBHDTCCACGTGYAHHBMHM

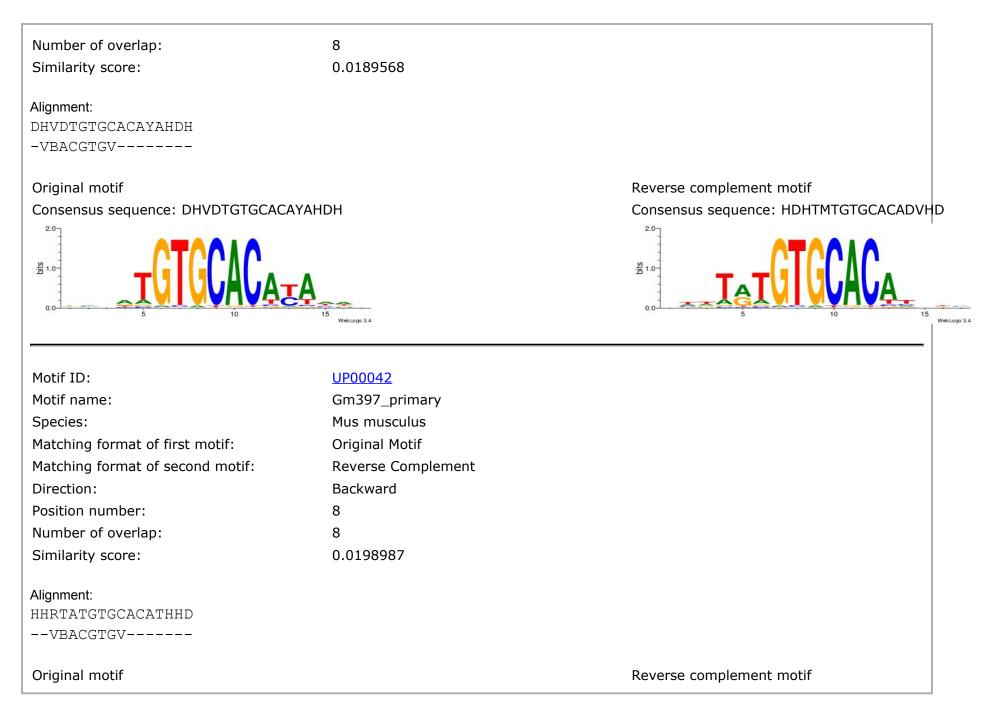


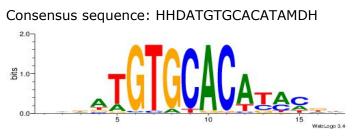
Motif ID:	<u>UP00084</u>	
Motif name:	Gmeb1_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	5	
Number of overlap:	8	





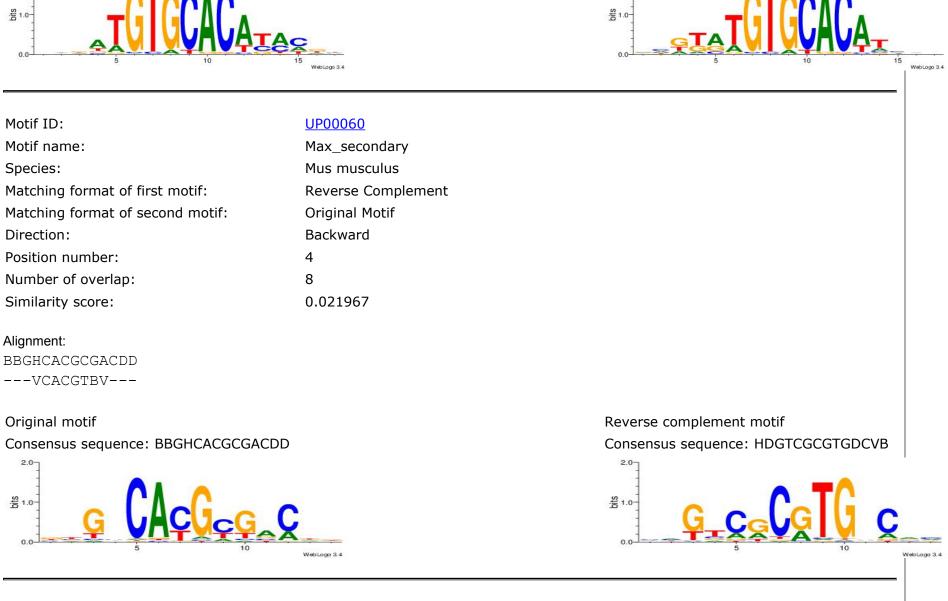
Motif ID:	<u>UP00068</u>	
Motif name:	Eomes_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	3	
Number of overlap:	8	
Similarity score:	0.0188154	
Alignment:		
VVBVCKACACCTHVBV		
VCACGTBV		
Original motif		Reverse complement motif
Consensus sequence: VBVDAGGTGTYC	3VBBV	Consensus sequence: VVBVCKACACCTHVBV
	15 WebLoga 3.4	
Motif ID:	15 WebLogo 3.4	
	WebiLogo 3.4	
Motif name:	WebLogo 3.4	
Motif name: Species:	WebLogo 3.4 UP00026 Zscan4_primary	
Motif name: Species: Matching format of first motif:	WebLogo3.4 <u>UP00026</u> Zscan4_primary Mus musculus	
Motif ID: Motif name: Species: Matching format of first motif: Matching format of second motif: Direction:	WebLogo3.4 <u>UP00026</u> Zscan4_primary Mus musculus Original Motif	



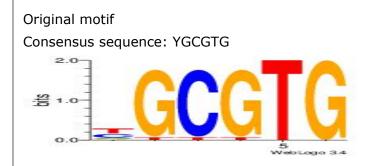


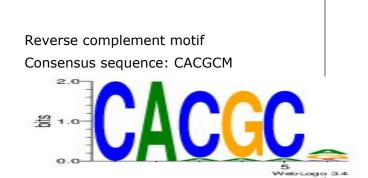


2.0-



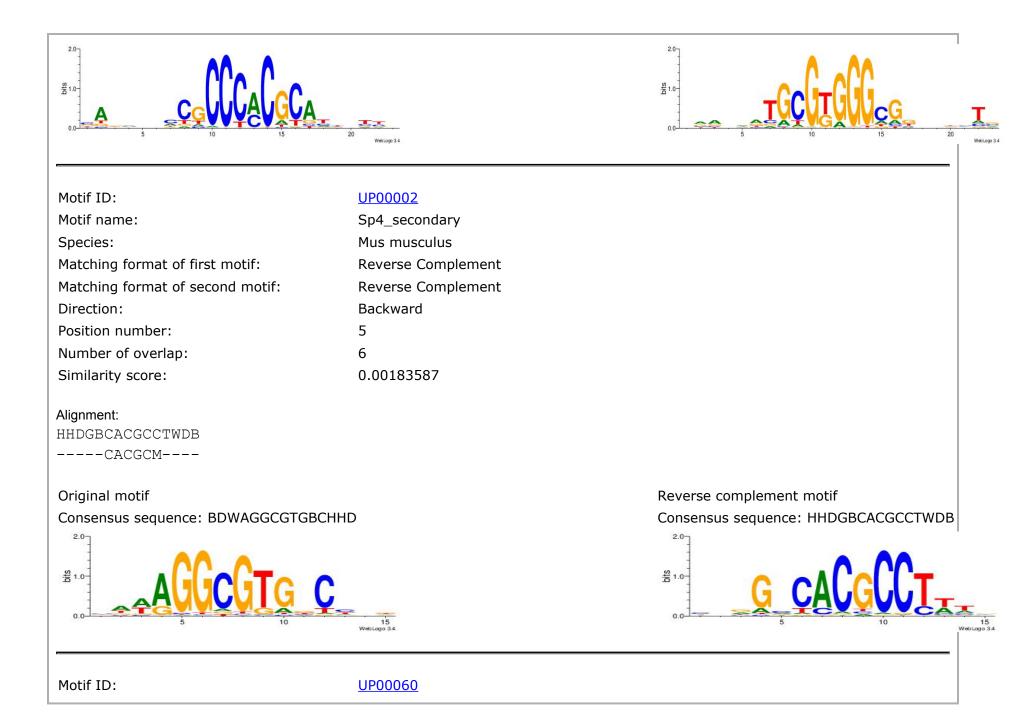
Dataset #: 3 Motif ID: 32 Motif name: ArntAhr



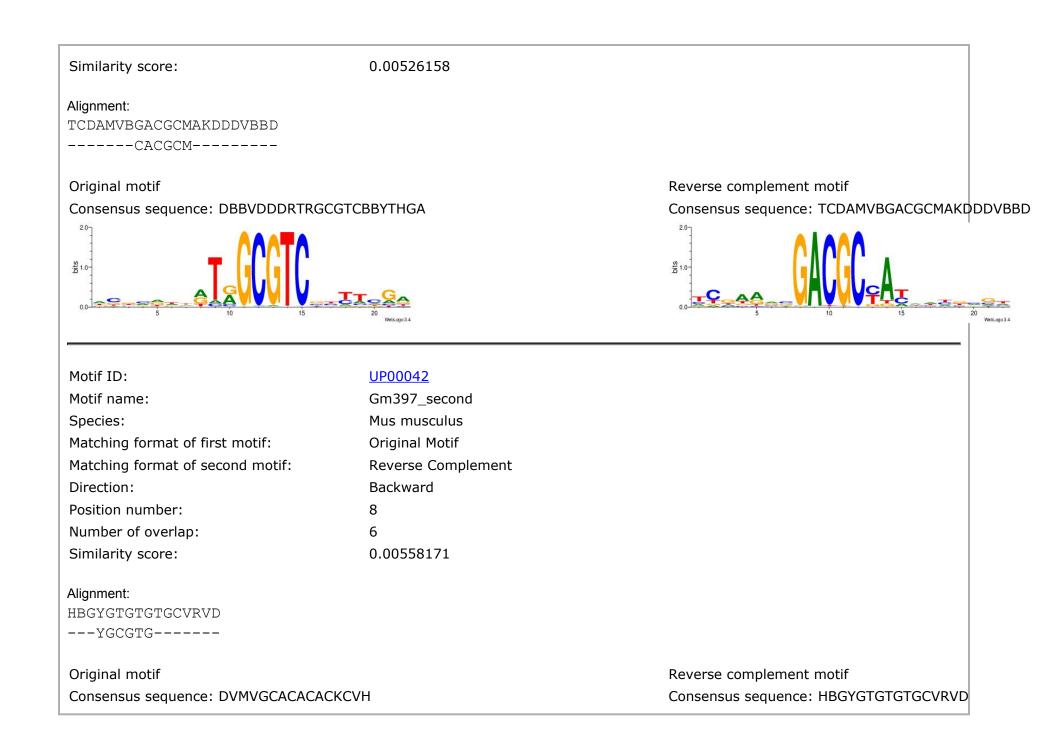


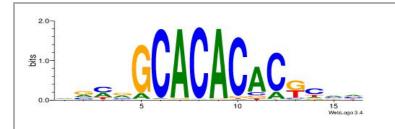
Best Matches for Motif ID 32 (Highest to Lowest)

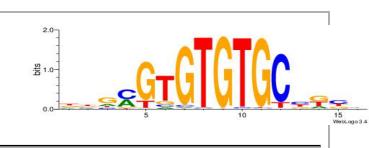
Motif ID:	<u>UP00400</u>		
Motif name:	Zif268		
Species:	Mus musculus		
Matching format of first motif:	Original Motif		
Matching format of second motif:	Reverse Complement		
Direction:	Forward		
Position number:	7		
Number of overlap:	6		
Similarity score:	0		
Alignment:			
VVVDHHTGCGYGGGCGDHVHHTB			
YGCGTG			
Original motif		Reverse complement motif	
Consensus sequence: BADHBDHCGCCCMCG	CAHHDBBV	Consensus sequence: VVVDHHTGCGYGGGCC	DHVHHTB



Motif name:	Max_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	5	
Number of overlap:	6	
Similarity score:	0.00348048	
Alignment:		
HDGTCGCGTGDCVB		
YGCGTG		
Original motif		Reverse complement motif
Consensus sequence: BBGHCACGCGA	CDD	Consensus sequence: HDGTCGCGTGDCVB
	WebLogo 3.4	
Motif ID:	<u>UP00527</u>	
Motif name:	Foxn4_primary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	8	
Number of overlap:	6	

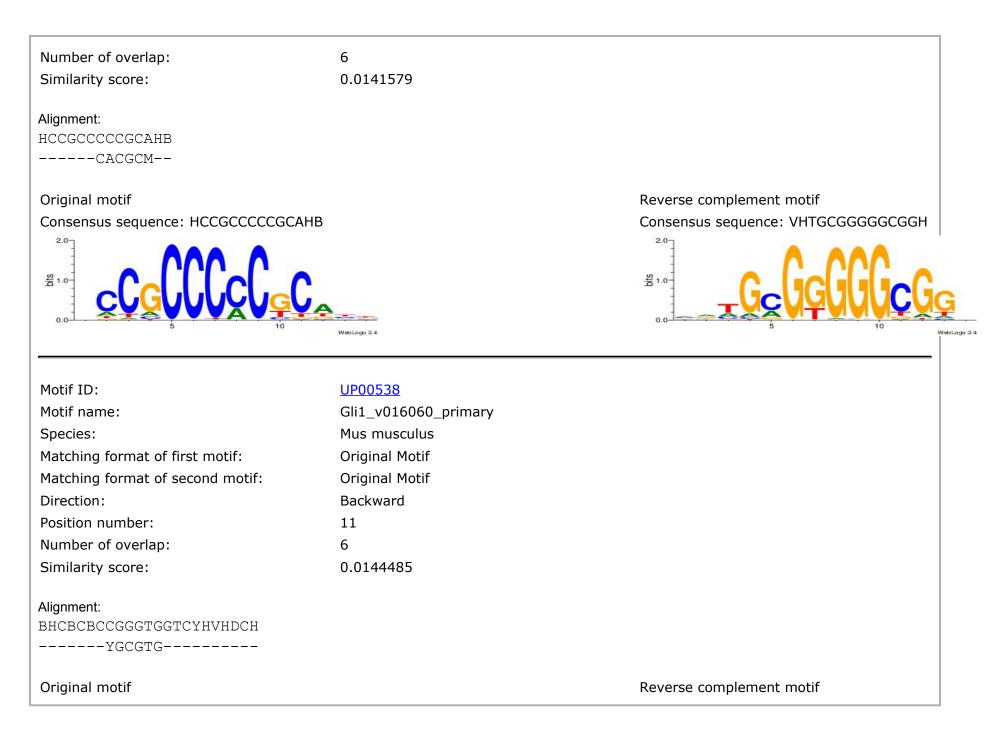


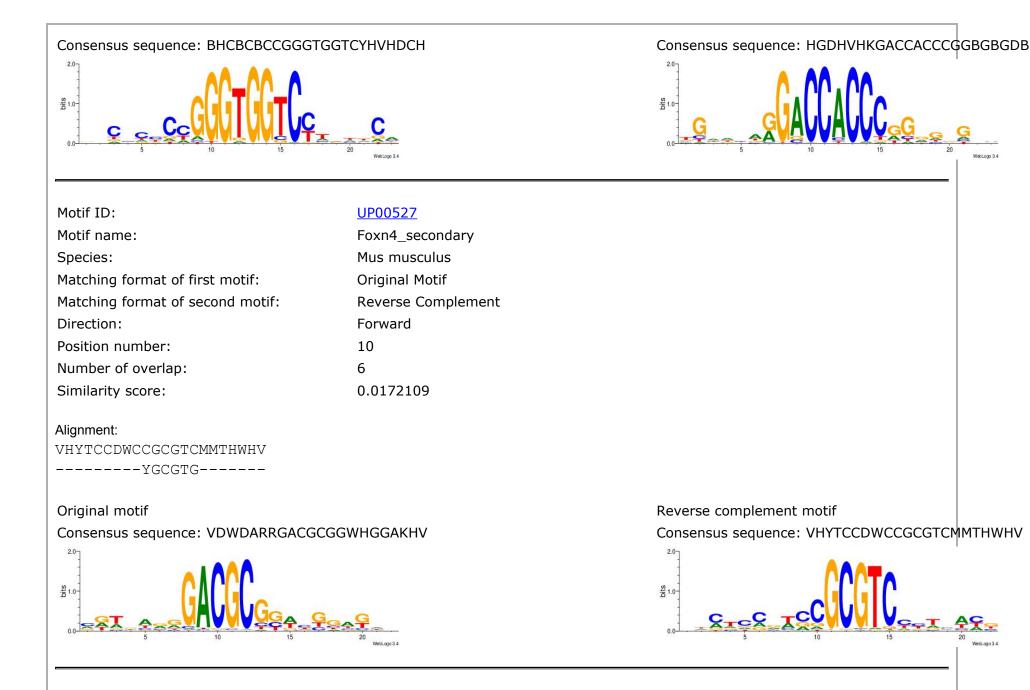




	15 WebLogo 3.4	is 1.0 0.0 5 5 10 10 10 15 15 WebLogo 3.4
Original motif Consensus sequence: DBDHCGTGTGCAAMDH		Reverse complement motif Consensus sequence: HDYTTGCACACGDHBH
Alignment: HDYTTGCACACGDHBH CACGCM		
Similarity score:	0.00702416	
Number of overlap:	6	
Position number:	9	
Direction:	Forward	
Matching format of second motif:	Reverse Complement	
Matching format of first motif:	Reverse Complement	
Species:	Mus musculus	
Motif name:	Mtf1_primary	
Motif ID:	<u>UP00097</u>	

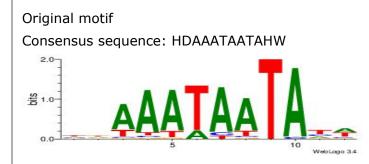
Motif ID:	<u>UP00526</u>	
Motif name:	Foxn1_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Forward	
Position number:	8	
Number of overlap:	6	
Similarity score:	0.0123233	
Alignment: DDRMHBACGCGYGCGTDGBBDB YGCGTG		
Original motif		Reverse complement motif
Consensus sequence: DDRMHBACGCG	YGCGTDGBBDB	Consensus sequence: BDVBCDACGCKCGCGTBHRKHD
Solution of the second	20 WebLogo 3.4	
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:	Backward	

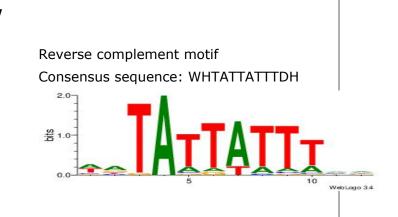




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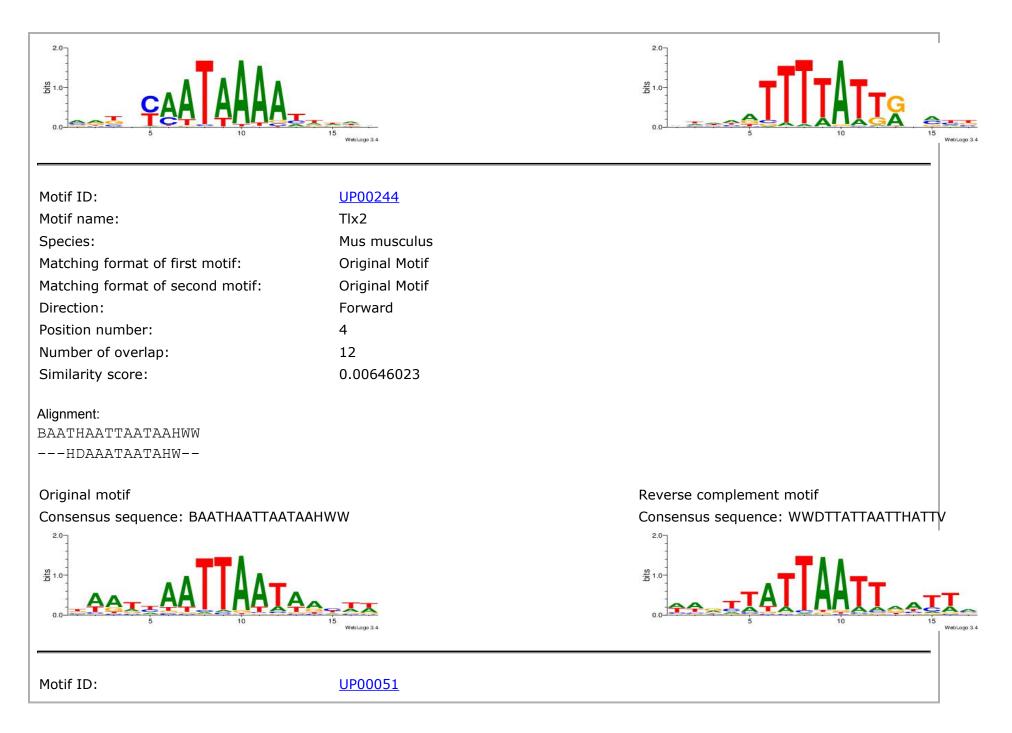
Dataset #: 4 Motif ID: 37 Motif name: tkAAATAATAtw





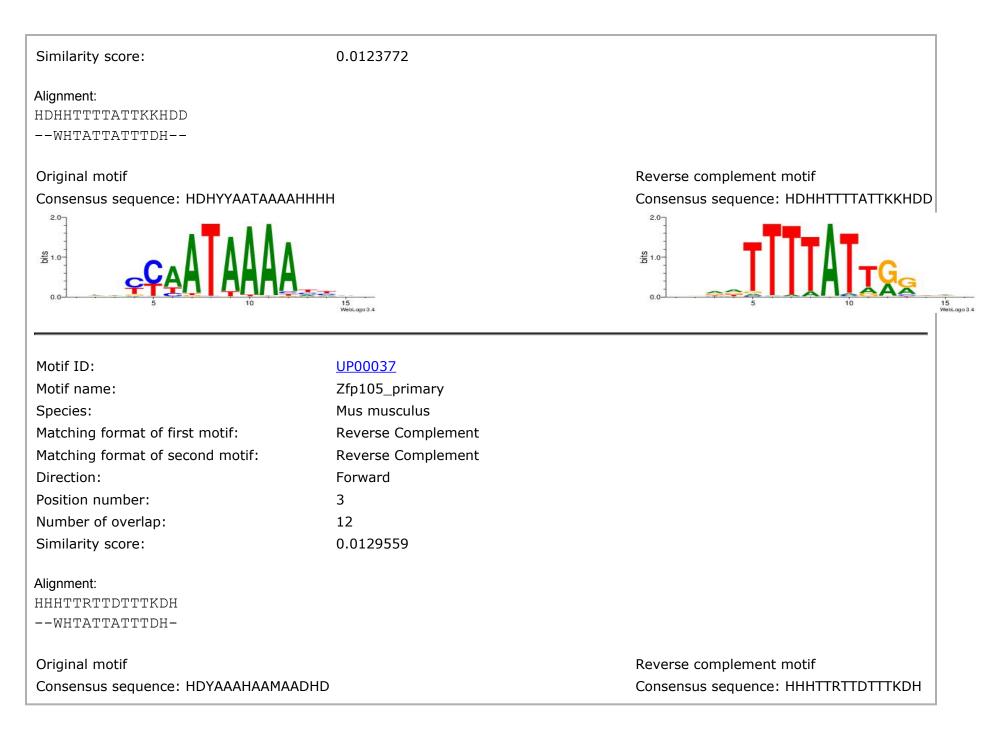
Best Matches for Motif ID 37 (Highest to Lowest)

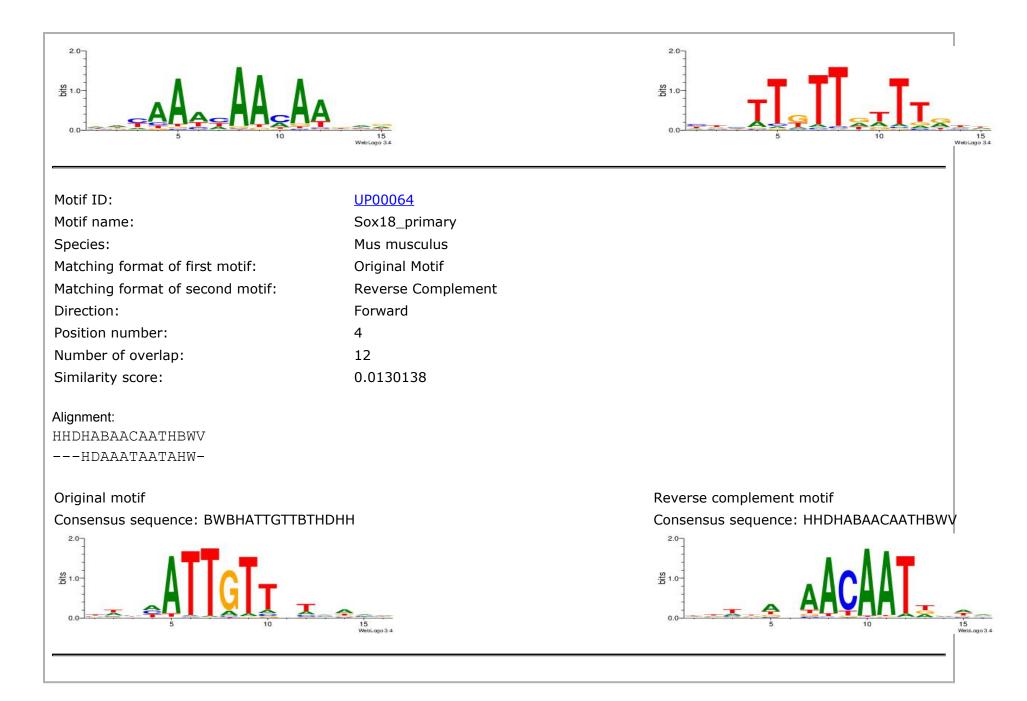
Motif ID:	<u>UP00121</u>
Motif name:	Hoxd10
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.00353196
Alignment: HDDDATTTTATTKVRDB WHTATTATTTDH	
Original motif	Reverse complement motif
Consensus sequence: VDKVYAATAAAATDDE	OH Consensus sequence: HDDDATTTATTKVRDB



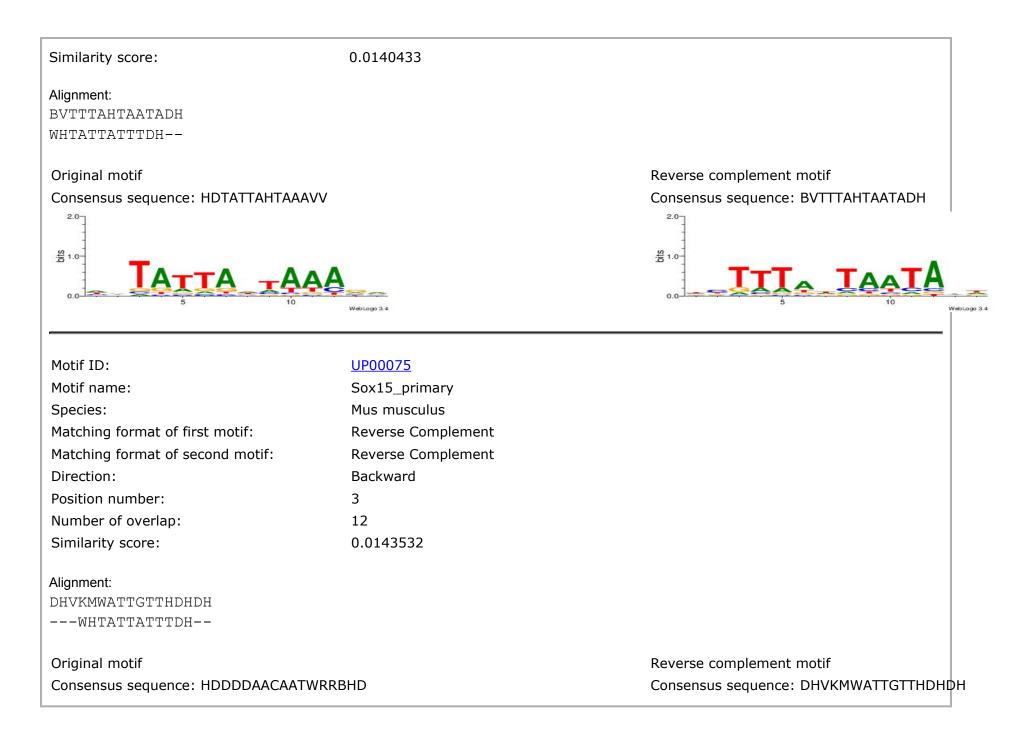
Motif name:	Sox8_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	4	
Number of overlap:	12	
Similarity score:	0.0120674	
HDAAATAATAHW Original motif		Reverse complement motif
Consensus sequence: DDATBWATTGT	THHDDD	Consensus sequence: DDDHDAACAATWBATD
	15 WebLogo 3.4	
Motif ID:	UP00180	

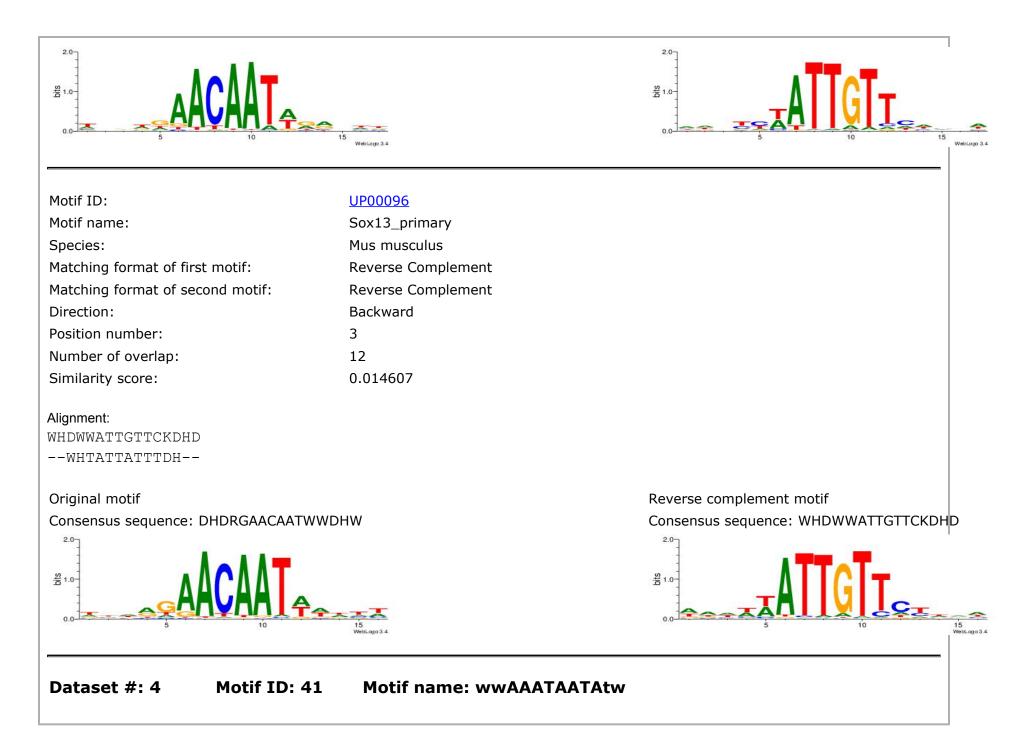
Motif ID:	<u>UP00180</u>
Motif name:	Hoxd13
Species:	Mus musculus
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12



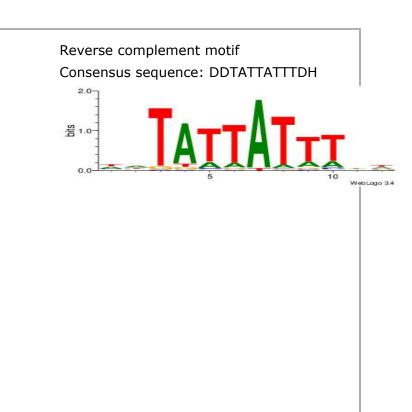


Motif ID:	<u>UP00255</u>	
Motif name:	Dbx1	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	4	
Number of overlap:	12	
Similarity score:	0.0131034	
Alignment: DHDBTAWTAATTHAKTH		
WHTATTATTTDH		
Original motif		Reverse complement motif
Consensus sequence: HARTHAATTAW1	AVDHD	Consensus sequence: DHDBTAWTAATTHAKTH
	15 WebLogo 3.4	
Motif ID:	<u>UP00024</u>	
Motif name:	Glis2_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
	Outstand Matt	
-	Original Motif	
Direction:	Forward	
Matching format of second motif: Direction: Position number: Number of overlap:	-	



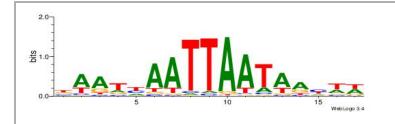


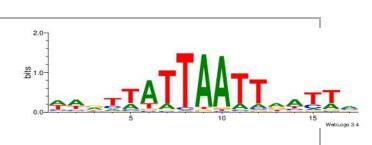
Original motif Consensus sequence: HDAAATAATADD



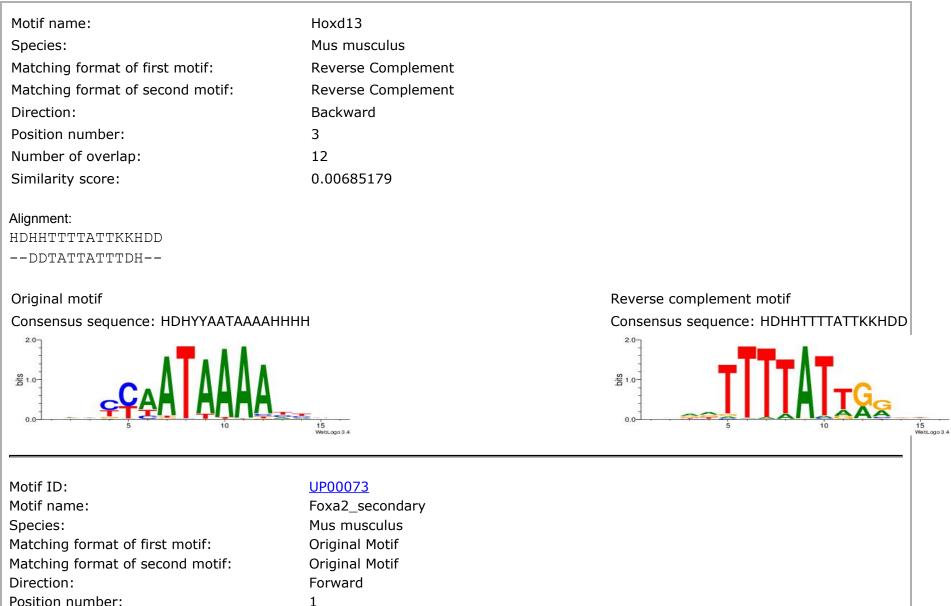
Best Matches for Motif ID 41 (Highest to Lowest)

Motif ID:	<u>UP00244</u>	
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		Reverse complement motif
Consensus sequence: BAATHAATTAATAAH	WW	Consensus sequence: WWDTTATTAATTHATTV





Motif ID:	<u>UP00121</u>	
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		Reverse complement motif
Consensus sequence: VDKVYAATAAAATDE	DH	Consensus sequence: HDDDATTTTATTKVRDB
	15 WebLogp 3.4	
Motif ID:	<u>UP00180</u>	



Number of overlap: Similarity score:

1 12 0.0108327

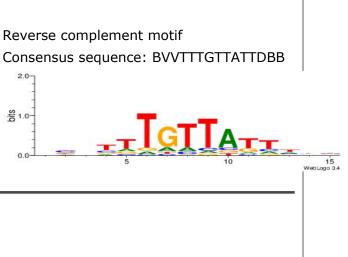
Alignment:

VVDAATAACAAAVVB HDAAATAATADD---

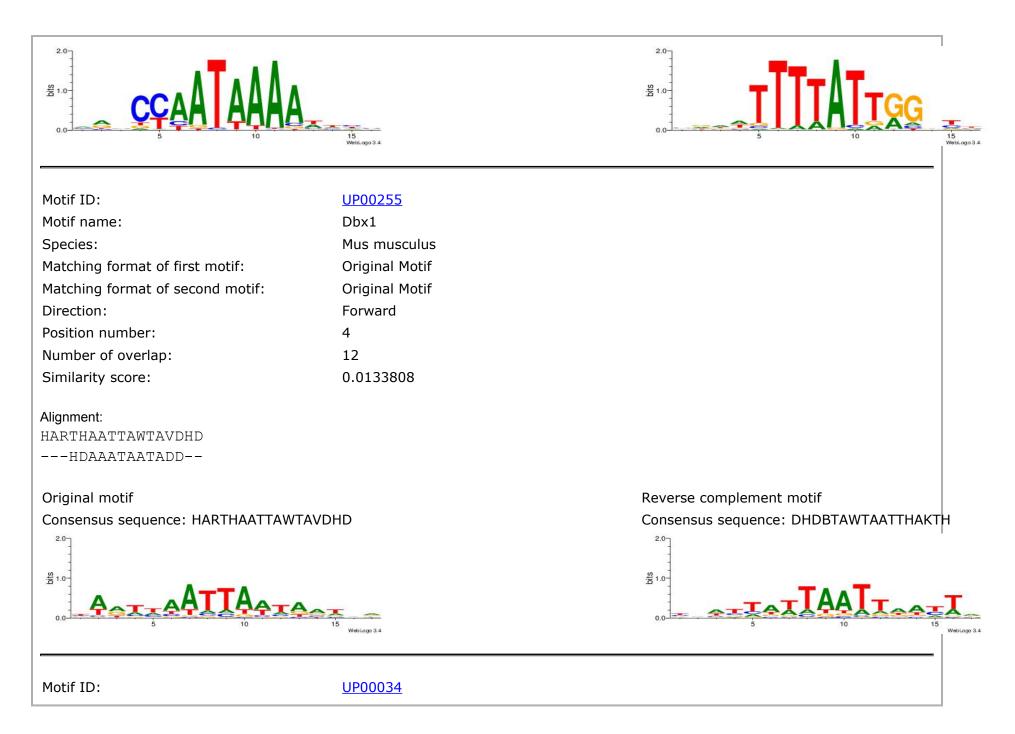
Original motif

Consensus sequence: VVDAATAACAAAVVB





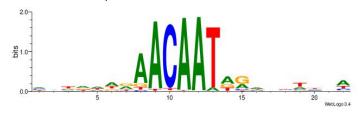
Motif ID:	<u>UP00134</u>	
Motif name:	Hoxb13	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	3	
Number of overlap:	12	
Similarity score:	0.0121723	
Alignment:		
VDHWTTTTATTGGDKB		
DDTATTATTTDH		
Original motif		Reverse complement motif
Consensus sequence: VRHCCAATAAAAW	HHV	Consensus sequence: VDHWTTTTATTGGDKB
1		



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

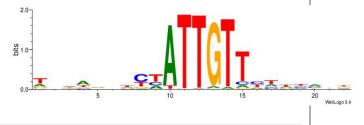
Original motif

Consensus sequence: HHBDHDDAACAATDRHHHHHBW



Reverse complement motif

Consensus sequence: WBHHHHHMDATTGTTHDHDVHH



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

Similarity score:

0.0145614

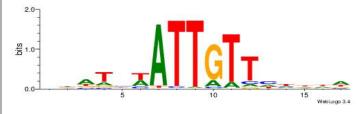
Alignment:

DDATBWATTGTTHHDDD

---DDTATTATTTDH--

Original motif

Consensus sequence: DDATBWATTGTTHHDDD



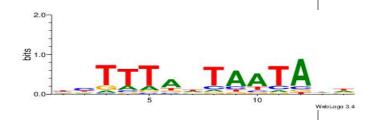
Reverse complement motif

Consensus sequence: DDDHDAACAATWBATDD



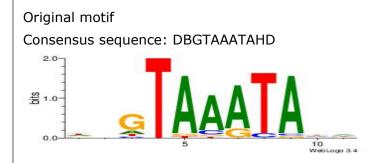
Motif ID:	<u>UP00024</u>	
Motif name:	Glis2_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	1	
Number of overlap:	12	
Similarity score:	0.0148858	
Alignment:		
BVTTTAHTAATADH		
HDAAATAATADD		
Original motif		Reverse complement motif
Consensus sequence: HDTATTAHTAAA	/V	Consensus sequence: BVTTTAHTAATADH

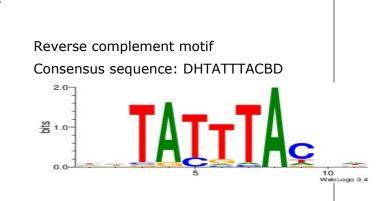




Motif ID:	<u>UP00096</u>	
Motif name:	Sox13_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Forward	
Position number:	3	
Number of overlap:	12	
Similarity score:	0.014968	
Alignment: DHDRGAACAATWWDHW HDAAATAATADD		
Original motif		Reverse complement motif
Consensus sequence: DHDRGAACAATW	VWDHW	Consensus sequence: WHDWWATTGTTCKDHD
2.0 Sig 1.0 0.0 Sig 1.0 10 15 WebLago 3.4		SE 1.0 0.0 5 10 10 15 WebLogo 3.4

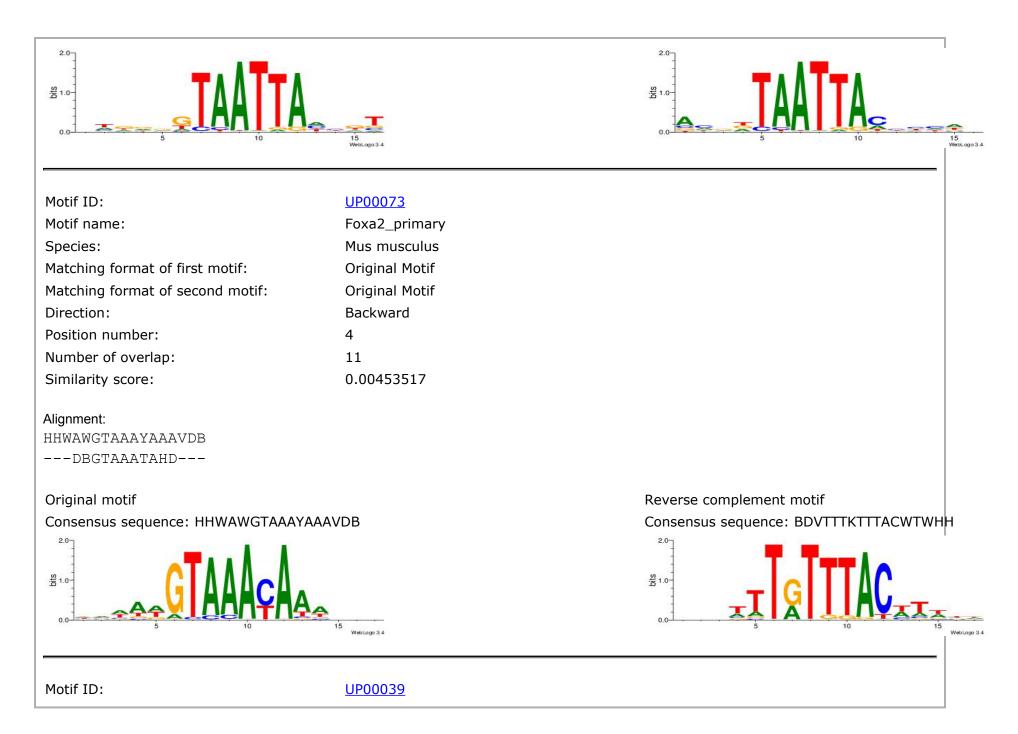
Dataset #: 4 Motif ID: 45 Motif name: wbgTAAATAww





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	T Consensus sequence: AHDHTAATTACHHHHV



Matif name:	Favi2 numany	
Motif name:	Foxj3_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Original Motif	
Direction:	Backward	
Position number:	4	
Number of overlap:	11	
Similarity score:	0.00490457	
Alignment:		
HDHADGTAAACAAAVVH		
DBGTAAATAHD		
Original motif		Reverse complement motif
Consensus sequence: HDHADGTAAAC	AAAVVH	Consensus sequence: DVVTTTGTTTACDTHDH
	15 Weblogs 3.4	
Motif ID:	UP00041	
Motif name:	Foxj1_primary	
	Mus musculus	
Species:		
Matching format of first motif:	Original Motif	

Original Motif

Backward

5

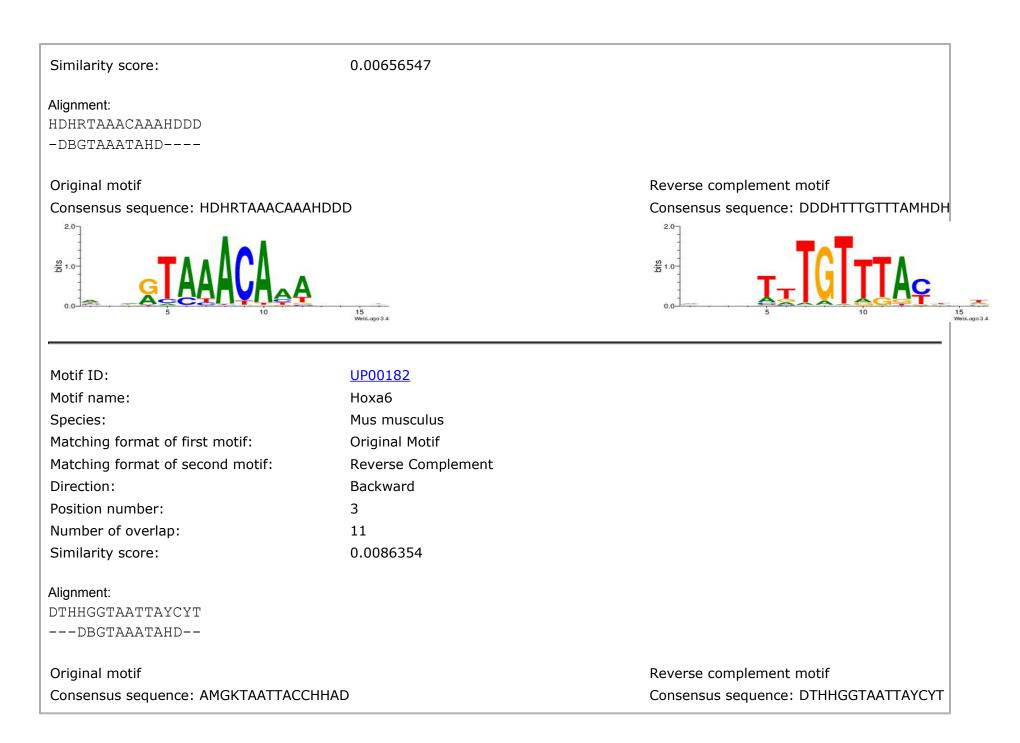
11

Matching format of second motif:

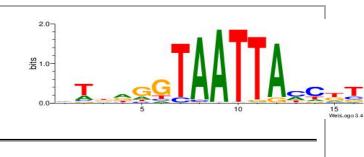
Direction:

Position number:

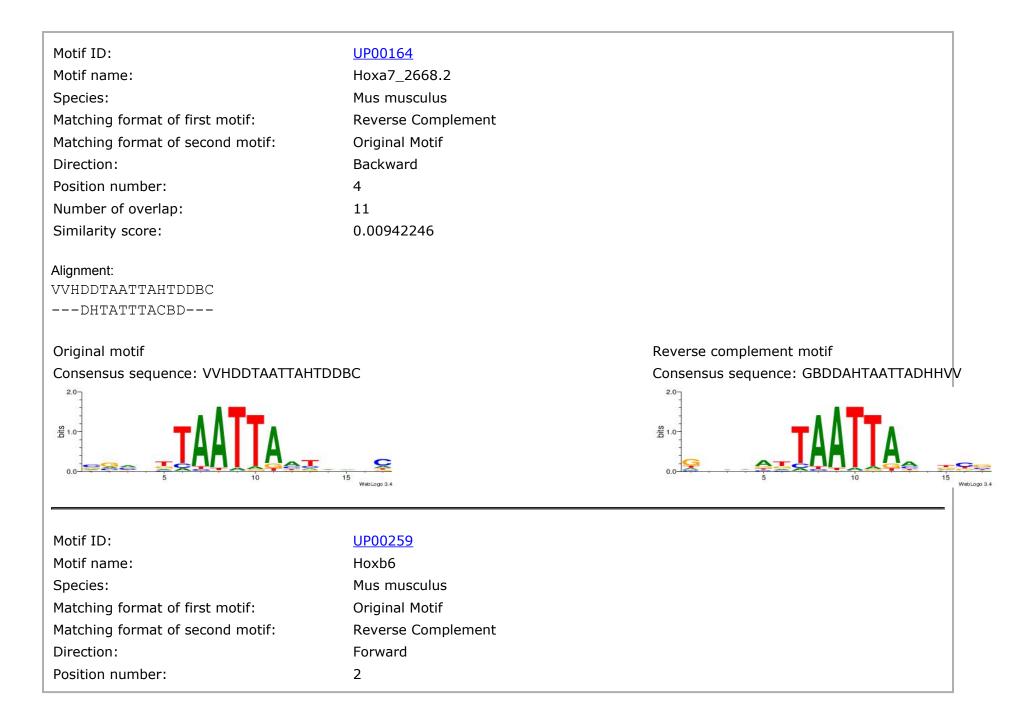
Number of overlap:

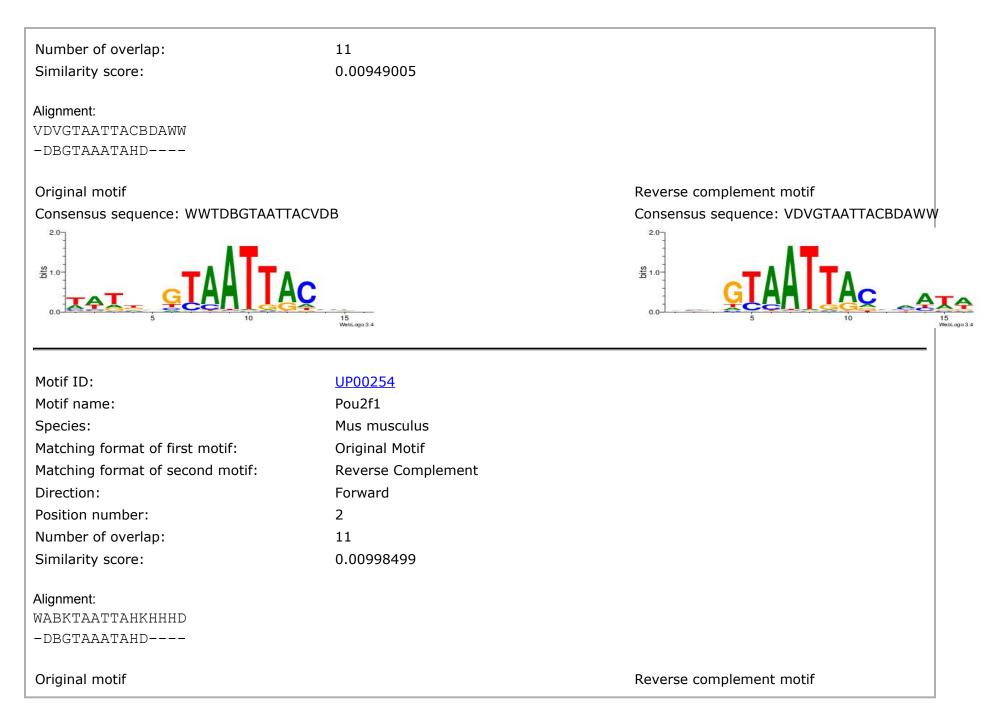


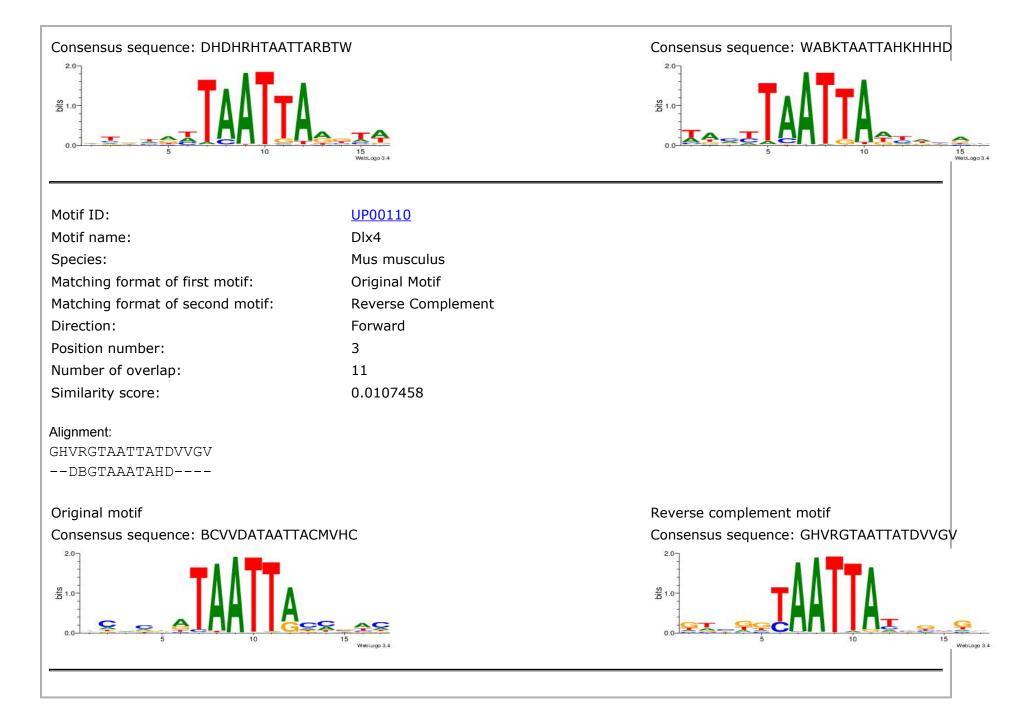




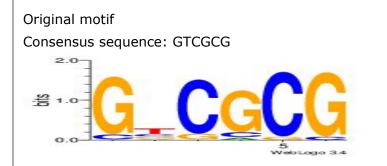
Motif ID:		
	<u>UP00260</u>	
Motif name:	Hoxc6	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Original Motif	
Direction:	Forward	
Position number:	4	
Number of overlap:	11	
Similarity score:	0.0092156	
Alignment:		
BRHVKTAATTAMBDVVD		
DHTATTTACBD		
Original motif		Reverse complement motif
Consensus sequence: BRHVKTAATTAM	BDVVD	Consensus sequence: DBBDVYTAATTARBHKB
2.0		2.0
	15 WebLago 3.4	0.0 5 10 15 Weblogs 34







Dataset #: 5 Motif ID: 46 Motif name: TFW1

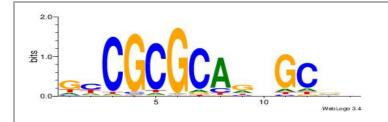


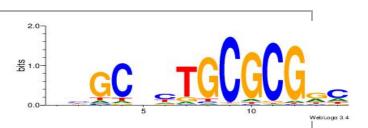
Reverse complement motif Consensus sequence: CGCGAC



Best Matches for Motif ID 46 (Highest to Lowest)

<u>UP00065</u>
Zfp161_secondary
Mus musculus
Original Motif
Original Motif
Backward
9
6
0
Reverse complement motif
Consensus sequence: VVGCVMTGCGCGKC





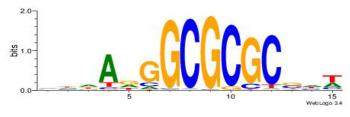
Motif ID:	<u>UP00060</u>	
Motif name:	Max_secondary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	3	
Number of overlap:	6	
Similarity score:	0.00875457	
GTCGCG Original motif		Reverse complement motif
Consensus sequence: BBGHCACGCGA	CDD	Consensus sequence: HDGTCGCGTGDCVB
E CAÇÇÇ	WebLogo 3.4	G_CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Motif ID:	<u>UP00003</u>	

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	

----CGCGAC-----

Original motif

Consensus sequence: VHDADGGCGCGCSHW

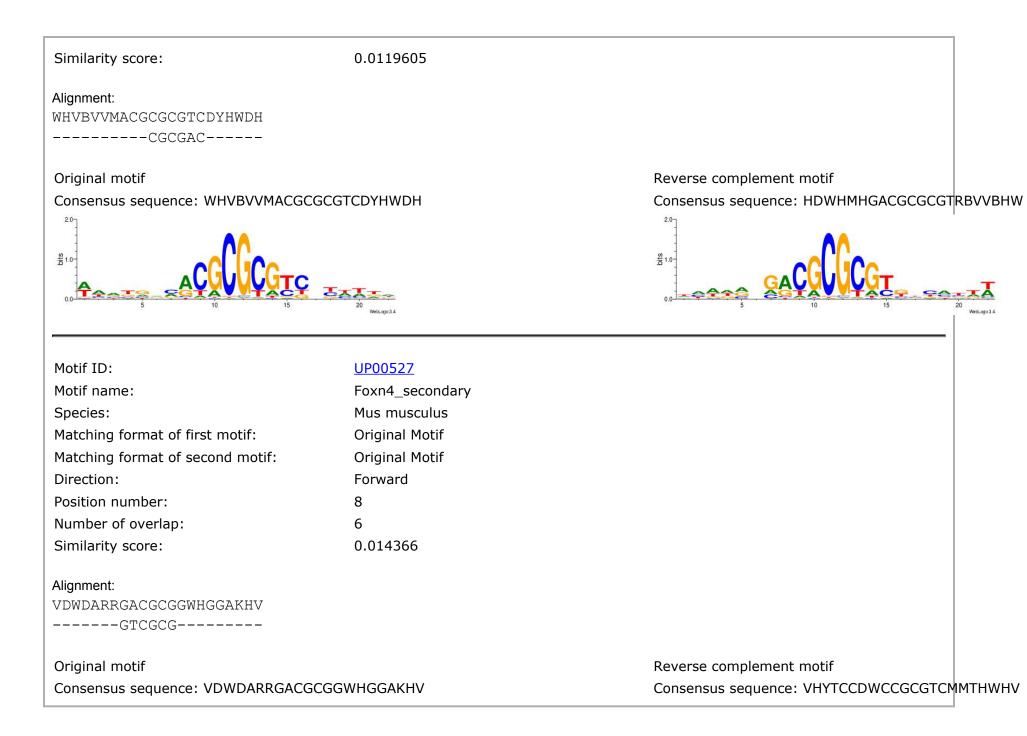


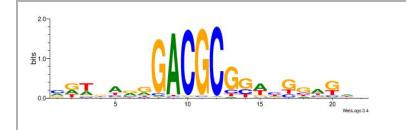
Reverse complement motif

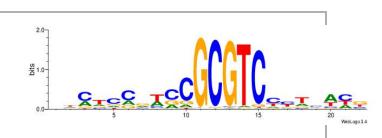
Consensus sequence: WHSGCGCGCCHTDHB



Motif ID:	<u>UP00526</u>
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





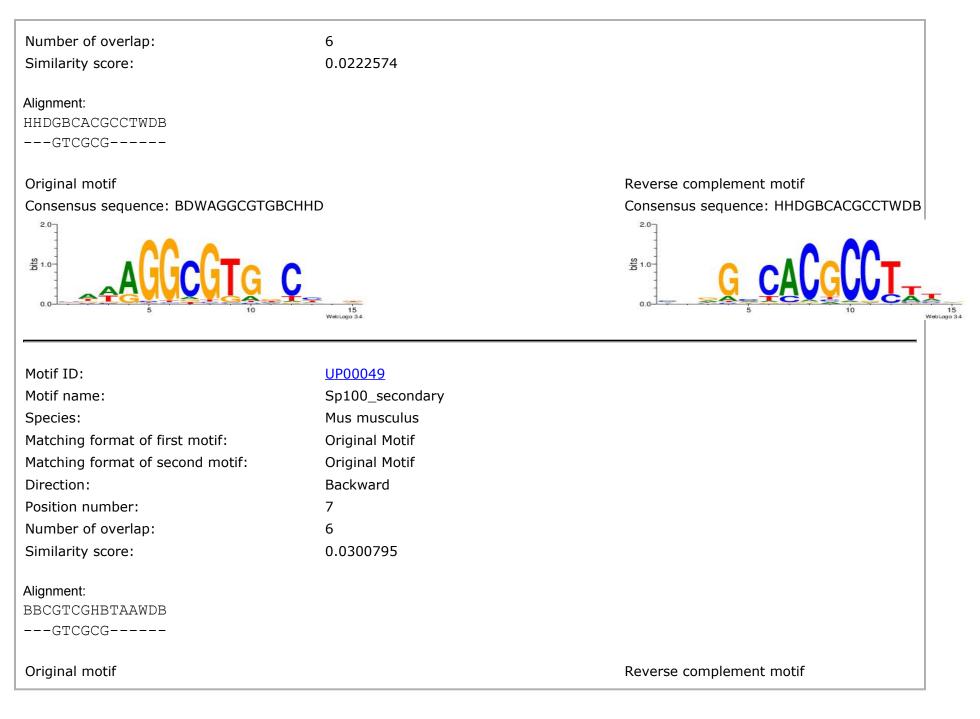


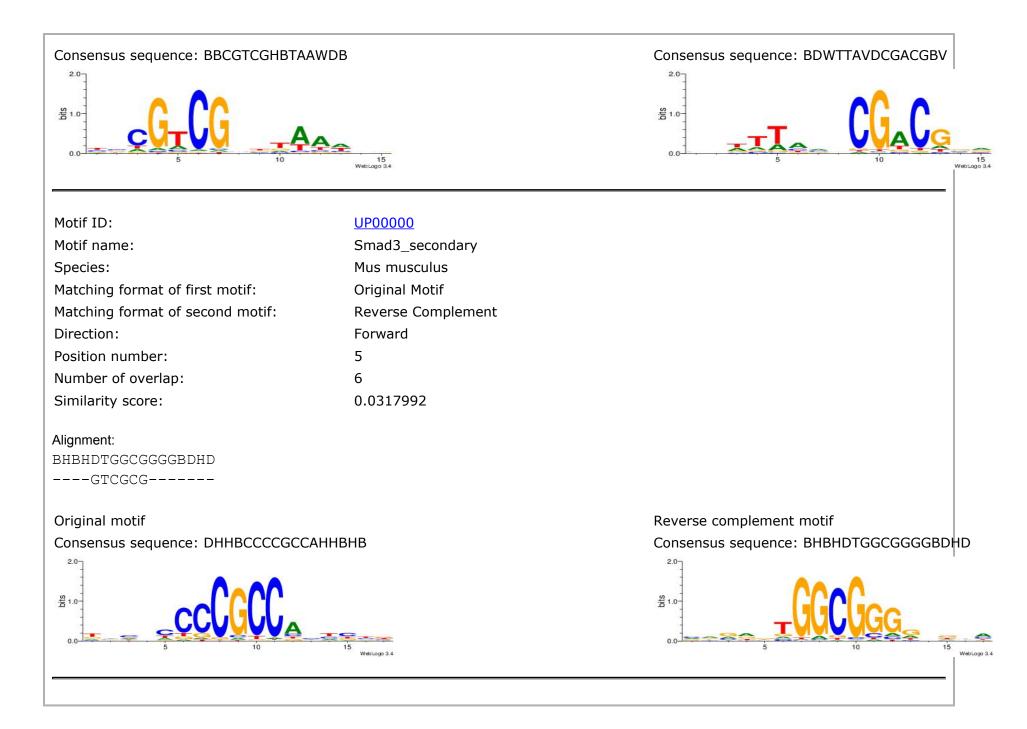
Motif ID:	<u>UP00065</u>	
Motif name:	Zfp161_primary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	10	
Number of overlap:	6	
Similarity score:	0.0143989	
Alignment: DMMDGMGCGCGCGCHD CGCGAC-		
Original motif		Reverse complement motif
Consensus sequence: DDGCGCGCGCR	CHYRD	Consensus sequence: DMMDGMGCGCGCGCHD
	15 WebLoga 3.4	

Motif ID:	<u>UP00001</u>	
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		Reverse complement motif
Consensus sequence: VHDARGGCGCGC	СУНН	Consensus sequence: HHVGCGCGCCKTDHB
	15 WebLogo 3.4	
Motif ID:	<u>UP00002</u>	
Motif name:	Sp4_secondary	
	op i_cocontact y	
Species:	Mus musculus	
Species: Matching format of first motif:		
•	Mus musculus	

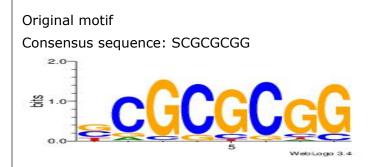
7

Position number:





Dataset #: 5 Motif ID: 47 Motif name: TFW2

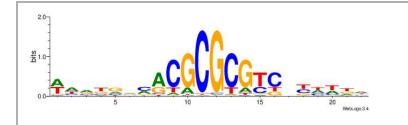


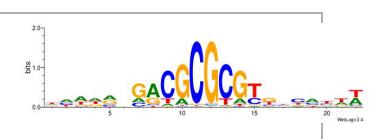
Reverse complement motif Consensus sequence: CCGCGCGS

Best Matches for Motif ID 47 (Highest to Lowest)

Motif ID:	<u>UP00526</u>	1	
Motif name:	Foxn1_primary	1	
Species:	Mus musculus		
Matching format of first motif:	Reverse Complement	1	
Matching format of second motif:	Reverse Complement		
Direction:	Backward		
Position number:	8		
Number of overlap:	8		
Similarity score:	0	1	
		1	
Alignment:		I	
HDWHMHGACGCGCGTRBVVBHW		1	
CCGCGCGS		1	
		1	
Original motif		Reverse complement motif	
Consensus sequence: WHVBVVMACGCGCG	TCDYHWDH	Consensus sequence: HDWHMHGACGCGCGT	RBVVBHW

WebLogo 3.4





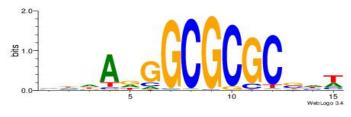
Motif ID:	<u>UP00065</u>	
Motif name:	Zfp161_secondary	
Species:	Mus musculus	
Matching format of first motif:	Reverse Complement	
Matching format of second motif:	Reverse Complement	
Direction:	Backward	
Position number:	2	
Number of overlap:	8	
Similarity score:	0.00228411	
Alignment: VVGCVMTGCGCGKC CCGCGCGS-		
Original motif		Reverse complement motif
Consensus sequence: GYCGCGCARBGCVE		Consensus sequence: VVGCVMTGCGCGKC
E 1.0 0.0 5 5 0.0 10	WebLogo 3.4	E 1.0 0.0 5 TCCCCC 10 Weblogs 3.4
Motif ID:	<u>UP00003</u>	

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:	<u>UP00001</u>
Motif name:	E2F2_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:

0.00399923

Alignment:

HHVGCGCGCCKTDHB

-CCGCGCGS-----

Original motif

Consensus sequence: VHDARGGCGCGCVHH

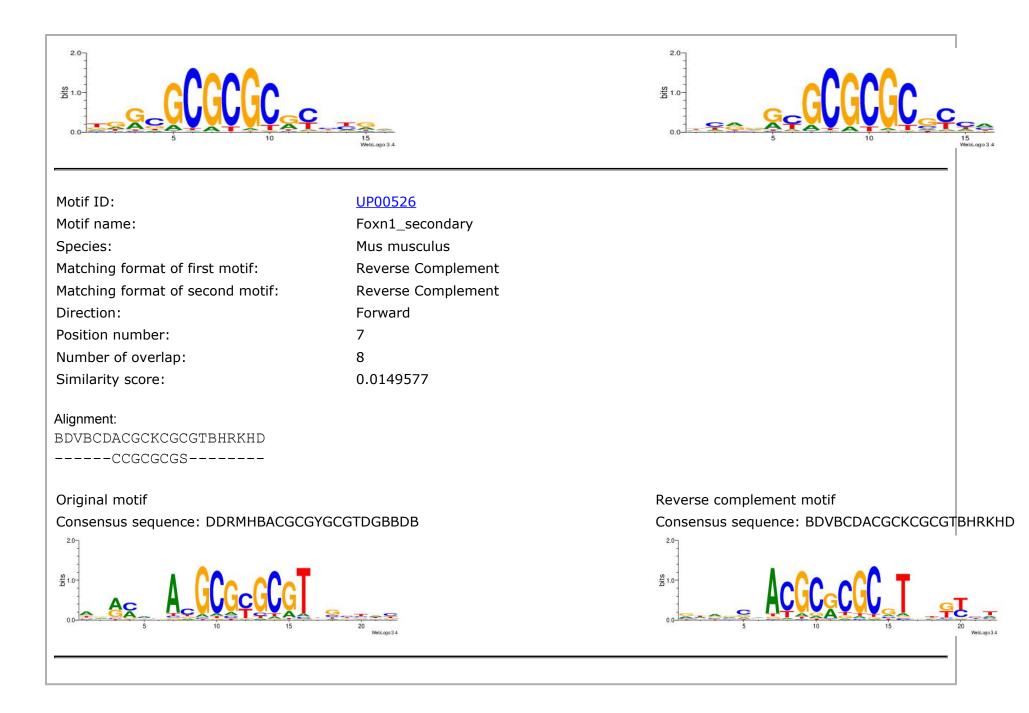


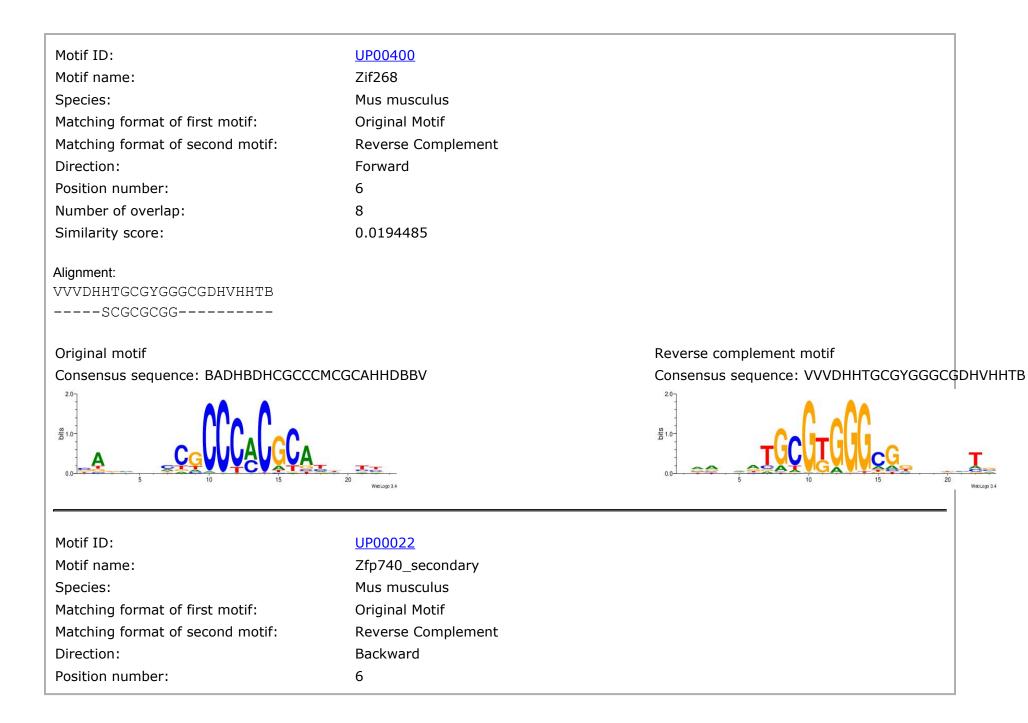
Reverse complement motif

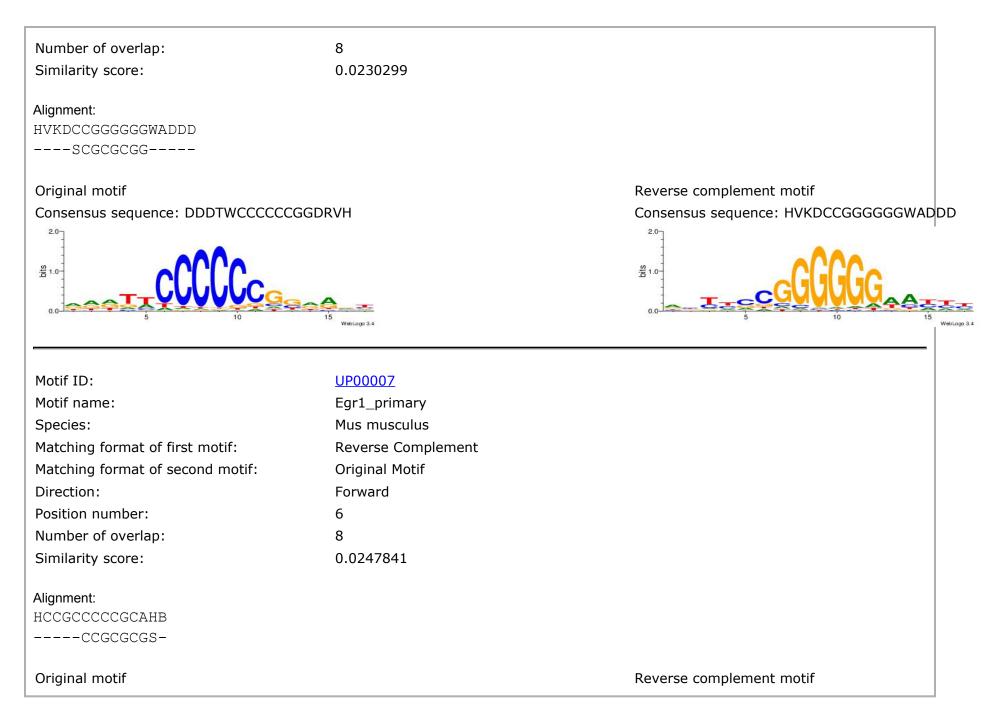
Consensus sequence: HHVGCGCGCCKTDHB

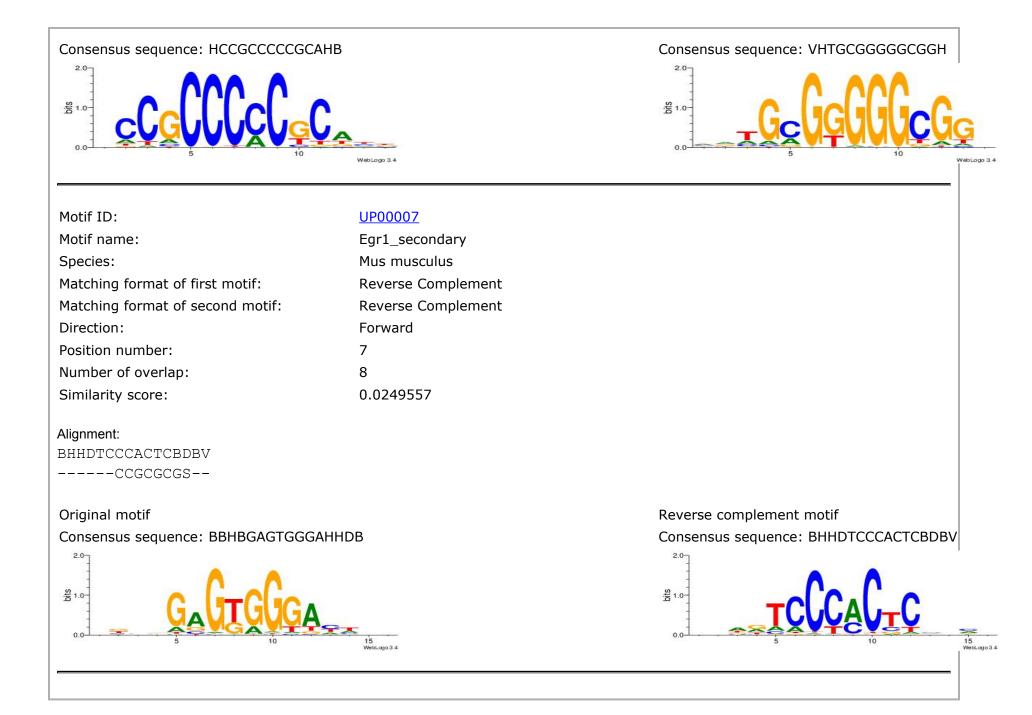


Motif ID:	<u>UP00065</u>	
Motif name:	Zfp161_primary	
Species:	Mus musculus	
Matching format of first motif:	Original Motif	
Matching format of second motif:	Reverse Complement	
Direction:	Forward	
Position number:	5	
Number of overlap:	8	
Similarity score:	0.00484534	
Alignment: DMMDGMGCGCGCGCHD SCGCGCGG		
Original motif		Reverse complement motif
Consensus sequence: DDGCGCGCGCRCHYRD		Consensus sequence: DMMDGMGCGCGCGCHD









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