

Jump to: [Multiple Alignment](#) [Motif Tree](#) [Motif Matching](#)

Input file: [20 motifs loaded](#)

Settings: Metric=PCC, Alignment=SWU, Gap-open=1000, Gap-extend=1000, -nooverlapalign

Multiple Alignment=IR, Tree=UPGMA, Matching against: JASPAR

Note: All results files are removed nightly at midnight EST. Please save your results by saving "Webpage, complete".

[Download results as a PDF](#)

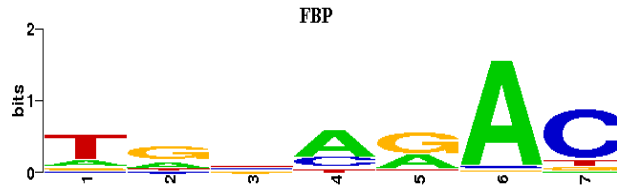
[Click here to run STAMP again.](#)

Multiple Alignment

(Consensus sequence representations shown, but multiple alignment was carried out on the matrices)

GCAGACGA:	----GCAGACGA--
GTCTGCTA:	--TAGCAGAC----
TATAWAAA:	-TATAWANR-----
CGTCTGTA:	---TACAGACG---
GTATAAAA:	--TTTTATAC----
GTCAGTCG:	-----CGACTGA-
WGTCAGTH:	----ACTGANN---
CGCCATCT:	-----AGATGGCG
TGGCAACG:	---TGGCAACG---
ACGTTGCC:	----GGCAACGT--
CTGTTTAT:	----ATAAACAG--
CAACCCTG:	-----CAACCCTG
ATGGCAAC:	--ATGGCAAC----
CTAGCGGC:	GCCGCTAG-----
ATCTCCGA:	--TCGGAGAT----
TGTTTACA:	---TGTAACA---
AGACCACK:	-----AGACCACK
TCAGCTKT:	-----AMAGCWGA
TGTCAAAA:	---TTTGTACA---
GCAGTCTT:	-----AAGACTGC-

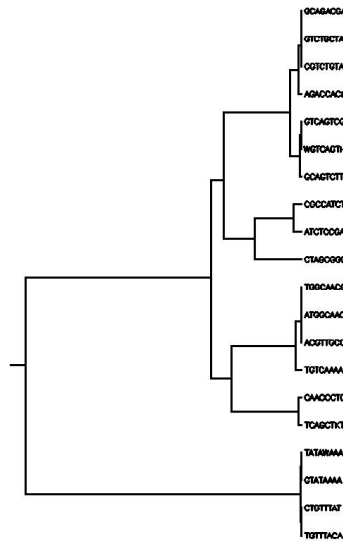
Familial Profile:
([click for matrix](#))







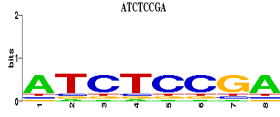

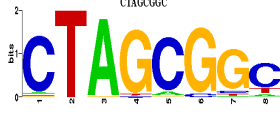









Motif Tree

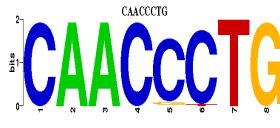
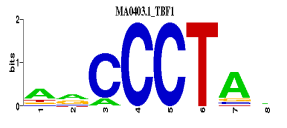


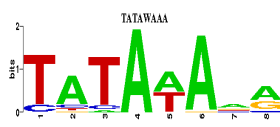
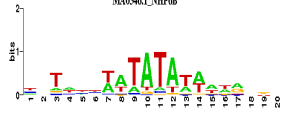

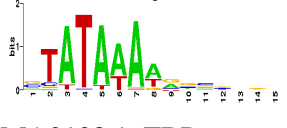




Tree (drawn by [Phylip](#))

[Click here for Newick-format tree](#) (viewable with [MEGA](#))





Input Motif	Best match in JASPAR
 GCAGACGA	 MA0131.1_MIZF (E val: 1.4846e-04)
 GTCTGCTA	 MA0454.1_odd (E val: 4.8427e-04)
 CGTCTGTA	 MA0271.1_ARG80 (E val: 1.6799e-03)
 AGACCACK	 MA0059.1_MYC_MAX (E val: 1.3998e-03)
 GTCAGTCG	 MA0099.2_API1 (E val: 5.3914e-04)
 WGTCAETH	 MA0227.1_hth (E val: 5.1407e-04)

 <p><u>GCAGTCTT</u></p>	 <p>MA0271.1_ARG80 (E val: 3.7590e-03)</p>
 <p><u>CGCCATCT</u></p>	 <p>MA0373.1_RPN4 (E val: 1.8662e-06)</p>
 <p><u>ATCTCCGA</u></p>	 <p>MA0432.1_YNR063W (E val: 3.9857e-14)</p>
 <p><u>CTAGCGGC</u></p>	 <p>MA0384.1_SNT2 (E val: 1.6338e-04)</p>
 <p><u>TGGCAACG</u></p>	 <p>MA0365.1_RFX1 (E val: 3.2672e-08)</p>
 <p><u>ATGGCAAC</u></p>	 <p>MA0365.1_RFX1 (E val: 3.5430e-08)</p>
 <p><u>ACGTTGCC</u></p>	 <p>MA0097.1_bZIP911 (E val: 4.3241e-06)</p>
 <p><u>TGTCAAAA</u></p>	 <p>MA0222.1_exd (E val: 2.4870e-09)</p>

 <p>CAACCCTG</p>	 <p>MA0403.1_TBF1 (E val: 7.3805e-06)</p>
 <p>TCAGCTKT</p>	 <p>MA0053.1_MNB1A (E val: 4.3186e-05)</p>
 <p>TATAWAAA</p>	 <p>MA0346.1_NHP6B (E val: 2.2011e-07)</p>
 <p>GTATAAAA</p>	 <p>MA0108.1_TBP (E val: 5.9677e-07)</p>
 <p>CTGTTTAT</p>	 <p>MA0040.1_Foxq1 (E val: 3.3233e-08)</p>
 <p>TGTTTACA</p>	 <p>MA0157.1_FOXO3 (E val: 3.4595e-13)</p>

Motif Similarity Matches

GCAGACGA		
	<i>forward</i>	<i>reverse compliment</i>

Name

E value

Alignment

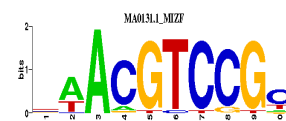
Motif

Stamp Results

04/19/15

MA0131.1_MIZF 1.4846e-04

--TCGTCTGC
NAACGTCCGC



MA0271.1_ARG80 9.5846e-04

TCGTCTGC
GNGTCW--



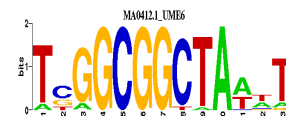
MA0411.1_UPC2 4.8413e-03

TCGTCTGC
TCGTAYN-



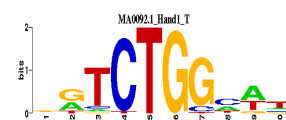
MA0412.1_UME6 4.9258e-03

-----GCAGACGA
AWWTAGCCGCCSA



MA0092.1_Hand1_T 6.9255e-03

TCGTCTGC---
-NRTCTGGNWN



GTCTGCTA

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0454.1_odd 4.8427e-04

GTCTGCTA-----
--NTGCTACTGTN



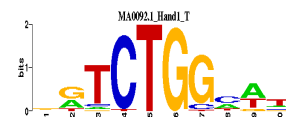
MA0287.1_CUP2 7.1974e-04

---GTCTGCTA
CWTTTTYTGCTG



MA0092.1_Hand1_T 9.4049e-04

-TAGCAGAC-
NWNCCAGAYN



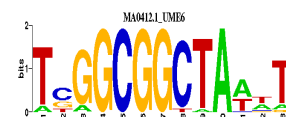
MA0418.1_YAP6 1.3081e-03

-----TAGCAGAC-
NNNNNTTACRTAAKCNNYN

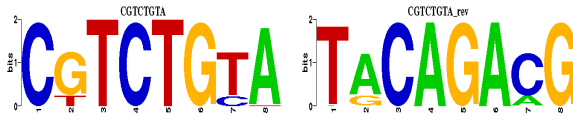




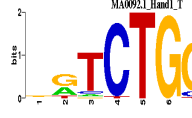
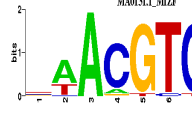

MA0412.1_UME6 2.8377e-03

---TAGCAGAC--
AWWTAGCCGCCSA

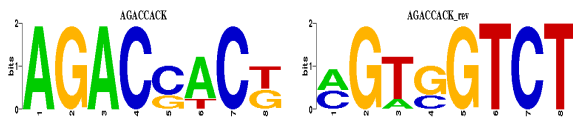


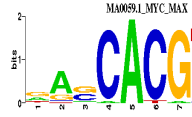

CGTCTGTA

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0271.1_ARG80	1.6799e-03	-CGTCTGTA GNGTCW---	
MA0332.1_MET28	7.4872e-03	-TACAGACG CCACAG---	
MA0092.1_Hand1_T	8.1951e-03	--TACAGACG NWNCCAGAYN	
MA0131.1_MIZF	8.3176e-03	---CGTCTGTA NAACGTCCGC-	
MA0091.1_TAL1_TCF3	8.3517e-03	----CGTCTGTA NNAMCATCTGKT	

AGACCACK

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0059.1_MYC_MAX	1.3998e-03	AGACCACK----- --ACCACGTGSTN	
MA0058.1_MAX	3.3369e-03	AGACCACK--- -NANCACGTGN	

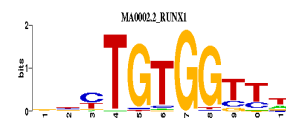
Stamp Results

04/19/15

MA0160.1_NR4A2 7.5554e-03

-AGACCACK
AAGGTCAC-

MA0002.2_RUNX1 9.7002e-03

AGACCACK---
NAACCACARNN

MA0162.1_Egr1 1.1410e-02

-AGACCACK--
MCGCCACGCN

GTCAGTCG

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0099.2_API 5.3914e-04

TCAGTCG
TGAGTCA

MA0100.1_Myb 5.5607e-03

CGACTGA-
CAACNGYC

MA0099.1_Fos 6.7298e-03

CGACTGA-
TGANTCAC

MA0454.1_odd 1.1523e-02






---CGACTGA-
NTGCTACTGTN

MA0086.1_sna 1.2481e-02

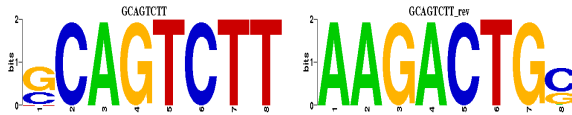
CGACTGA
CACCTG-



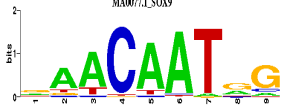

WGTCAGTH



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0227.1_hth	5.1407e-04	ACTGANN-- --TGACAG	
MA0252.1_vis	5.4139e-04	ACTGANN-- --TGACAN	
MA0207.1_achi	5.7253e-04	--NNTCAGT CTGTCA--	
MA0099.2_AP1	7.2370e-04	--NNTCAGT TGAGTCA--	
MA0096.1_bZIP910	7.9267e-04	--NNTCAGT ACGTCAK--	

GCAGTCTT



	<i>forward</i>	<i>reverse compliment</i>	
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0271.1_ARG80	3.7590e-03	GCAGTCTT -GNGTCW-	
MA0392.1_STB5	1.1804e-02	--AAGACTGC TANNNCCG-	
MA0077.1_SOX9	1.7780e-02	GCAGTCTT- CYATTGTTN	
MA0089.1_NFE2L1_MafG	2.8714e-02	GCAGTCTT- ---GTCATN	

Stamp Results

04/19/15

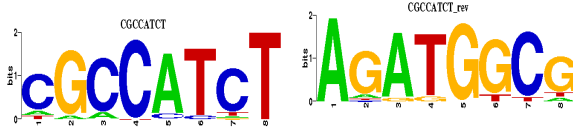
MA0207.1_achi

2.8950e-02

GCAGTCTT
-CTGTCA-



CGCCATCT



forward

reverse compliment

Name

E value

Alignment

Motif

MA0373.1_RPN4

1.8662e-06

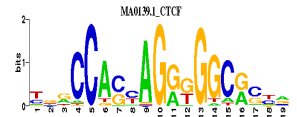
CGCCATCT
CGCCACC-



MA0139.1_CTCF

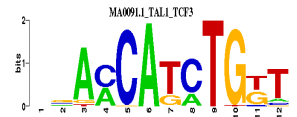
1.5579e-05

---CGCCATCT-----
NNSYGCCMCCTRSTGGNNR



MA0091.1_TAL1_TCF3 3.7490e-04

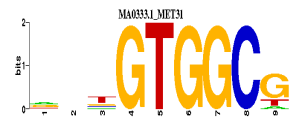
---AGATGGCG-
AMCAGATGKTNN



MA0333.1_MET31

1.7205e-03

CGCCATCT-
CGCCACNNN



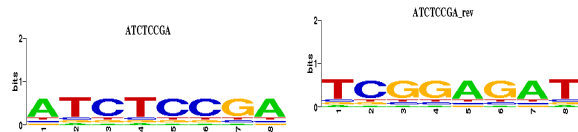
MA0097.1_bZIP911

2.1845e-03

AGATGGCG-----
-GRTGACGTGGCC



ATCTCCGA



forward

reverse compliment

Name

E value

Alignment

Motif

MA0432.1_YNR063W 3.9857e-14

ATCTCCGA
ATCTCCGA

MA0354.1_PDR8 2.8118e-10

ATCTCCGA
ATCTCCGN

MA0312.1_HAP1 9.1384e-09

-ATCTCCGA
NAWNTCCG-

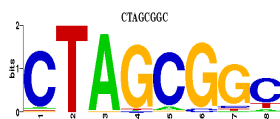
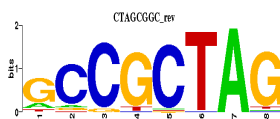
MA0348.1_OAF1 3.8428e-08

-ATCTCCGA
NATCYCCGN

MA0422.1_YDR520C 1.3074e-07

--ATCTCCGA
NTAWNTCCGN

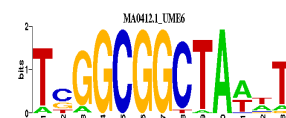
CTAGCGGC

*forward**reverse compliment**Name**E value**Alignment**Motif*

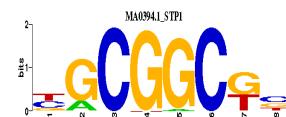
MA0384.1_SNT2 1.6338e-04

-GCCGCTAG--
NGGCGCTAYCA

MA0412.1_UME6 3.3900e-04

--CTAGCGGC---
AWWTAGCCGCCSA

MA0394.1_STP1 8.3945e-04

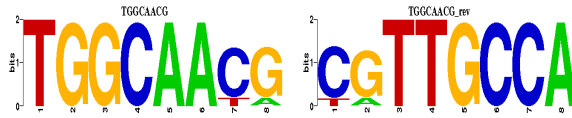
--GCCGCTAG
NMGCCGCR--

MA0396.1_STP3 1.5379e-03

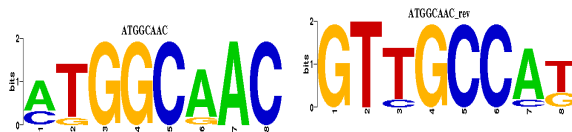
GCCGCTAG-
NGCGCTANN

MA0397.1_STP4 1.5379e-03

GCCGCTAG-
NGCGCTANN

TGGCAACG*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0365.1_RFX1	3.2672e-08	TGGCAACG TRGCAACN	
MA0119.1_TLX1_NFIC	1.8224e-04	-----CGTTGCCA TTGGCNNNSTGCCA	
MA0262.1_mab-3	2.4881e-04	---TGGCAACG-- ANWTCGCAACATT	
MA0152.1_NFATC2	1.1409e-03	TGGCAACG TGGAAAA-	
MA0097.1_bZIP911	1.2280e-03	TGGCAACG----- -GCCACGTCAYC	

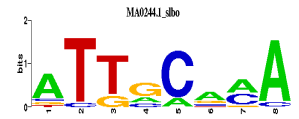
ATGGCAAC*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0365.1_RFX1	3.5430e-08	ATGGCAAC- -TRGCAACN	

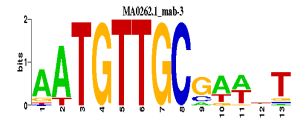
Stamp Results

04/19/15

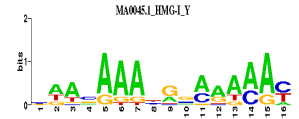
MA0244.1_slbo 6.0877e-05

GTTGCCAT
TKNGYAAT

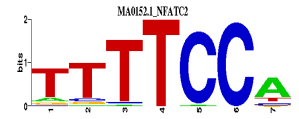
MA0262.1_mab-3 7.7394e-05

--ATGGCAAC---
ANWTCGCAACATT

MA0045.1_HMG-I_Y 4.0738e-04

--GTTGCCAT-----
RTTTYKNYNTTTNTNN

MA0152.1_NFATC2 1.2509e-03

ATGGCAAC
-TGGAAAA

ACGTTGCC

*forward**reverse compliment**Name**E value**Alignment**Motif*

MA0097.1_bZIP911

4.3241e-06

GGCAACGT----
GGCCACGTCAYC

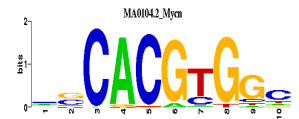
MA0365.1_RFX1

4.1203e-05

-GGCAACGT
TRGCAACN-

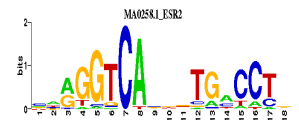
MA0104.2_Mycn

1.0847e-04

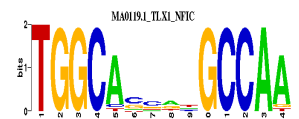
GGCAACGT---
-GCCACGTGSN

MA0258.1_ESR2

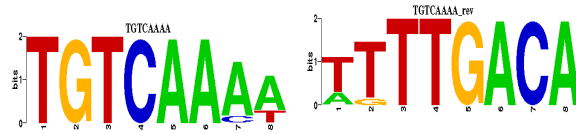
2.9489e-04

---GGCAACGT-----
NAGGNCANNNTGACCYN

MA0119.1_TLX1_NFIC 7.1793e-04

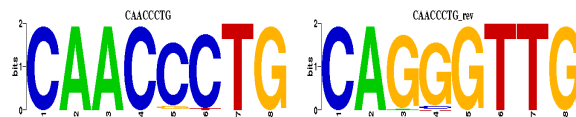
--GGCAACGT----
TTGGCINNNTGCCA

TGTCAAAA

*forward**reverse compliment*

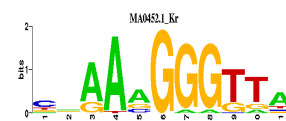
<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0222.1_exd	2.4870e-09	TGTCAAAA TGTCAAAN	
MA0408.1_TOS8	1.6892e-06	TTTTGACA- -NTTGACAN	
MA0252.1_vis	1.7502e-05	-TGTCAAAA NTGTCA---	
MA0207.1_achi	1.7621e-05	-TGTCAAAA CTGTCA---	
MA0227.1_hth	2.0606e-05	-TGTCAAAA CTGTCA---	

CAACCCTG

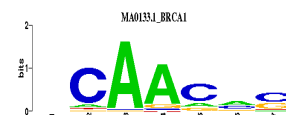
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0403.1_TBF1	7.3805e-06	-CAGGGTTG NTAGGGYT-	
MA0116.1_Zfp423	3.5880e-05	-CAACCCTG----- GNMMCCYTRGGKSC	

MA0452.1_Kr 6.7523e-05

CAACCCTG---
TAACCCYTTNN

MA0133.1_BRCA1 1.1482e-04

-CAACCCTG
NCAACNS--

MA0364.1_REI1 1.7042e-04

-CAGGGTTG
NCAGGGG--**TCAGCTKT***forward**reverse compliment**Name**E value**Alignment**Motif*

MA0053.1_MNB1A 4.3186e-05

AMAGCWGA
AAAGN---

MA0064.1_PBF 6.4789e-05

AMAGCWGA
AAAGY---

MA0020.1_Dof2 1.8384e-04

TCWGCTKT
--NGCTTT

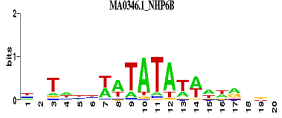
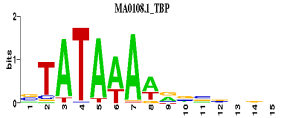
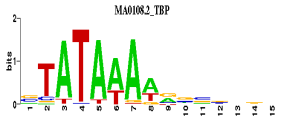
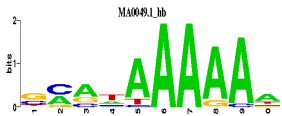

MA0021.1_Dof3 1.1016e-03

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--NRCTTT

MA0117.1_Mafb 1.7065e-03

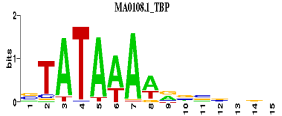
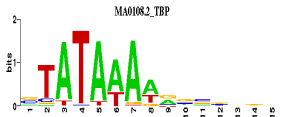

AMAGCWGA---
---GCTGANN**TATAWAAA**

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0346.1_NHP6B	2.2011e-07	-----YNTWTATA----- NNTNNNNWWTATAWNNNRNNN	
MA0108.1_TBP	1.1331e-06	-----YNTWTATA- NNNNNNYWTTTATAN	
MA0108.2_TBP	1.1339e-06	-----YNTWTATA- NNNNNNYWTTTATAN	
MA0049.1_hb	3.6111e-06	-YNTWTATA- NTTTTNYKS	
MA0052.1_MEF2A	8.8489e-06	-YNTWTATA- CTATTTATAG	

GTATAAAA

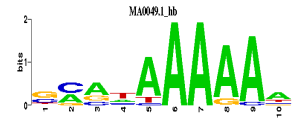
*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0108.1_TBP	5.9677e-07	-----TTTATAC NNNNNNYWTTTATAN	
MA0108.2_TBP	6.0006e-07	-----TTTATAC NNNNNNYWTTTATAN	
MA0265.1_ABF1	1.1476e-06	-----TTTATAC-- NNRTCNYNNNNNACGR	

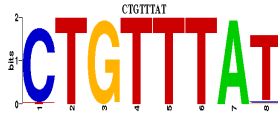
MA0052.1_MEF2A 3.6428e-05

--TTTATAC
CTATTTATAG

MA0049.1_hb 5.6788e-05

--TTTATAC
NTTTTNYKS

CTGTTTAT

*forward**reverse compliment**Name**E value**Alignment**Motif*

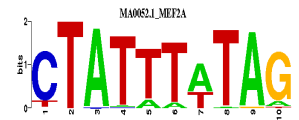
MA0040.1_Foxq1 3.3233e-08

-ATAAACAG--
WATAACAATN

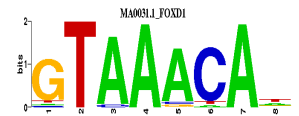
MA0297.1_FKH2 1.4526e-07

CTGTTTAT
-TGTTTAC

MA0052.1_MEF2A 5.2183e-07

--ATAAACAG
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MA0031.1_FOXD1 1.1940e-06



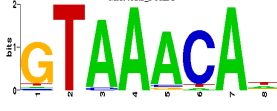


CTGTTTAT
NTGTTTAC

MA0157.1_FOXO3 1.7753e-06

CTGTTTAT-
-TGTTTACA

TGTTTACA

*forward**reverse compliment*

<i>Name</i>	<i>E value</i>	<i>Alignment</i>	<i>Motif</i>
MA0157.1_FOXO3	3.4595e-13	TGTTTACA TGTTTACA	
MA0297.1_FKH2	2.9035e-11	TGTTTACA TGTTTAC-	
MA0031.1_FOXD1	4.8896e-10	-TGTTTACA NTGTTTAC-	
MA0047.2_Foxa2	3.2964e-09	----TGTAACA NNWRWGTAACA	
MA0148.1_FOXA1	9.5248e-08	---TGTAACA NWRWGYAACA	

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