

ANNEX 05 - Transcription factors identified from differentially expressed protein genes for number of teats (group 5), through an input file in Fasta format

;TFM Explorer

```
;Date      : Mon Nov  8 18:36:41 2021
;Scanned location : -3000:300
;Scanned sequences : None (2 sequences)
;Scanned matrices : (130 matrices)
;Parameters      : minsize= 30, maxsize= 1500, ratio=3.0, top=25
;
; headers
;  1  rank      window rank
;  2  matrix     matrix name
;  3  tf         transcription factor name
;  4  info       information of content of the matrix
;  5  gc         gc content of the matrix (G+C)%
;  6  location   location of the window (relatively to TSS)
;  7  pvalue     pvalue of the window
```

```
1  MA0156.1      FEV      12.1208832256  0.442307695746 -1323:-1128      9.14885279715e-05
    list of hits
    MYH7B-1323  -1315  +      5.26      GGGGAAAT
    MYH7B-1260  -1252  +      8.11      AAGGAAAT
    PPEF2  -1291  -1283  +      9.45      CAGGAAGT
    PPEF2  -1281  -1273  +      6.99      CAGGATGT
    PPEF2  -1128  -1120  -      7.15      ATATCCTG
```

ANEXO 08 - Fatores de transcrição identificados a partir de genes de proteínas diferencialmente expressos para número de tetos (grupo 6), por meio de um arquivo de entrada no formato Fasta

;TFM Explorer

```
;Date      : Mon Nov  8 18:38:28 2021
;Scanned location : -3000:300
;Scanned sequences : None (8 sequences)
;Scanned matrices : (130 matrices)
;Parameters      : minsize= 30, maxsize= 1500, ratio=3.0, top=25
;
; headers
;  1  rank      window rank
;  2  matrix     matrix name
```

```

; 3 tf      transcription factor name
; 4 info    information of content of the matrix
; 5 gc      gc content of the matrix (G+C)%
; 6 location location of the window (relatively to TSS)
; 7 pvalue  pvalue of the window

```

```

1  MA0135.1      Lhx3  16.3541414376  0.130769234437 -542:287      3.05283300042e-09
    list of hits
    ADGRL2      -0527  -514  +      3.13  AAATTTAAAAATC
    ADGRL2      -0473  -460  +      4.20  TCATTAATAAACA
    ADGRL2      -0412  -399  +      8.70  GGATTAATTTTTT
    ADGRL2      -0398  -385  +      5.86  AAAATAAATATTC
    ADGRL2      -0377  -364  +      2.89  AAATTATCTAGAT
    ADGRL2      -0170  -157  +      1.62  TGAGTAAATTTTT
    ADGRL2      -0152  -139  +      5.41  TGATTAACCAGTT
    ADGRL2      -0129  -116  +      2.34  ACATTTCTTATCT
    ADGRL2      +0008   21    +      2.56  TCATTCATTCACT
    ADGRL2      +0050   63    +      1.19  AATTTAAATGTAT
    ARFIP1 -0097   -84    -      1.25  AGCTAGAAAAATTA
    CCL20 -0488  -475    -      2.76  CATTTGTTAATCA
    CCL20 -0243  -230    -      1.70  TTCTATTTATTTA
    CCL20 -0162  -149    -      1.42  TGTTTTTAAATTT
    CCL20 +0087   100    -      2.96  GGATATTAAATAT
    CCL20 +0287   300    -      2.72  TTATTTTTTAATTA
    FRMD4A     -0542  -529    -      3.06  AAAAAATAAAATAA
    FRMD4A     -0528  -515    +      3.87  TAAATAAATAAAT
    FRMD4A     -0298  -285    -      6.03  GATTCTTTAATTT
    FRMD4A     +0144   157    -      1.30  GAAAAGTAGATTT
    FRMD4A     +0273   286    -      1.52  AGATACTTGATTT
    IQCM  -0341  -328    +      2.71  AACTAATTTTTTA
    IQCM  -0119  -106    -      8.15  CAAAGATTAATTA
    IQCM  -0076   -63    -      7.47  TAATAATAAATGT
    IQCM  -0053   -40    -      2.76  TAAATGTTAATTT
    IQCM  -0037   -24    -      1.23  ATCAAGGTAATTT
    IQCM  +0161   174    -      1.02  TTCTGATCAATTT
    IQCM  +0193   206    -      2.71  TATAAAATAATGA

```

KIF6	-0226	-213	-	2.93	AATGGATTAAAGA
MDC1	-0420	-407	+	3.36	TTTTTAATTTACC
MDC1	-0290	-277	-	2.19	CATTGTTAAAATT
MDC1	-0230	-217	-	6.21	TGATAAGTAATTT
MDC1	+0009	22	+	0.96	TGATTAGTTCGTG

2 MA0041.1 Foxd3 12.944828444 0.223404252126 -555:-526.23057018175e-09

list of hits

ADGRL2	-0555	-543	-	6.60	GAAAAAAAAAAAC
ADGRL2	-0526	-514	-	4.96	AATTTAAAAATC
ADGRL2	-0411	-399	+	4.75	GATTAATTTTTT
ADGRL2	-0397	-385	-	10.98	AAATAAATATTC
ADGRL2	-0266	-254	-	5.73	AAACAAAAGATT
ADGRL2	-0135	-123	-	4.71	ATGACAACATTT
CCL20	-0473	-461	-	7.27	ATGCAAACATTC
CCL20	-0329	-317	+	6.82	GAAAGTTTACTT
CCL20	-0243	-231	+	5.92	TTCTATTTATTT
CCL20	-0231	-219	+	6.80	ATTTGTTGTTGT
CCL20	-0217	-205	+	5.49	ATTTGTTTGAAT
CCL20	-0168	-156	+	9.08	ATTTGTTGTTTT
FRMD4A	-0539	-527	-	9.35	AAATAAATAAAT
FRMD4A	-0527	-515	-	9.35	AAATAAATAAAT
FRMD4A	-0514	-502	+	5.66	AATAATTGGTTT
FRMD4A	-0318	-306	-	6.37	AAAAAAAAAAAAA
FRMD4A	-0305	-293	-	4.36	AAAATAAGATTC
FRMD4A	-0219	-207	+	5.54	CTTTTTTTTTTT
FRMD4A	-0154	-142	+	4.24	ATTTGCTTTTTT
IQCM	-0523	-511	-	6.99	GAAAATACAATC
IQCM	-0299	-287	-	5.12	ATAAAAATATTG
IQCM	-0243	-231	+	6.13	AAATGTATGATT
IQCM	-0194	-182	-	5.83	AGGCAAACAAAA
IQCM	-0097	-85	+	5.48	ACATATTATTTT
IQCM	-0080	-68	-	5.33	ACAATAATAATA
IQCM	-0052	-40	+	9.33	AAATGTTAATTT
LTBP2	-0296	-284	+	7.08	CCATGTTTTTTT
MDC1	-0404	-392	+	4.73	GTTTTTTTTTCT

MDC1	-0361	-349	-	7.37	AAACAAAAAAAT
MDC1	-0284	-272	+	4.99	TAAAATTTATTC
MDC1	-0237	-225	-	5.55	AAGAAAATGATA
MDC1	-0224	-212	+	4.68	GTAATTTTGTTT

3 MA0030.1 FOXF2 14.8237690108 0.341166766626 -543:-271.95789518321e-06

list of hits

ADGRL2	-0472	-458	+	7.66	CATTAATAAACATT
ADGRL2	-0400	-386	+	7.09	TCAAAATAAATATT
ADGRL2	-0284	-270	-	8.34	TCTGTTTACCTCTC
ADGRL2	-0030	-16	-	3.41	TCTGTTTCTCTTTC
ARFIP1	-0137	-123	-	3.72	CTTCTTTACCCGCG
CCL20	-0238	-224	-	4.67	TTTATTTATTTGTT
FRMD4A	-0542	-528	+	6.10	AAAAAATAAATAAA
FRMD4A	-0526	-512	+	4.67	AATAAATAAATAAA
FRMD4A	-0325	-311	+	3.04	TGCTCATAAAAAAA
IQCM	-0543	-529	+	4.54	GGAACATAAGCAAC
IQCM	-0350	-336	+	3.10	CCCTGGAAAACACT
IQCM	-0304	-290	+	3.07	GGACCATAAAAATA
IQCM	-0197	-183	+	4.75	CAGAGGCAAACAAA
IQCM	-0093	-79	-	2.58	ATTATTTTGTATGA
IQCM	-0051	-37	-	3.01	AATGTTAATTTTAC
IQCM	-0027	-13	-	7.73	TTTATTTACTATGC
KIF6	-0434	-420	-	4.30	TATGCTTACCCTGA
MDC1	-0368	-354	+	3.28	AGAGGTTAAACAAA
MDC1	-0219	-205	-	3.70	TTTGTTTTCTCTG

4 MA0142.1 Pou5f1 14.8078141896 0.307774950874 -542:-893.90188040225e-06

list of hits

ADGRL2	-0542	-527	-	6.26	ATTAACAACCTTAAAG
ADGRL2	-0510	-495	+	5.71	TTTTCAGTTGTATAT
ADGRL2	-0462	-447	+	4.69	CATTGAAATTCTTTT
ADGRL2	-0388	-373	-	6.13	TTCTGCTTGACAAAT
ADGRL2	-0273	-258	-	4.12	CTCTACTAAACAAAA
ADGRL2	-0254	-239	+	4.49	TTTTGGTATCTAAAA
ADGRL2	-0214	-199	-	4.01	ATGTTCATAAAAATC

ADGRL2	-0111	-96	+	4.57	CTGTGACATGAAGAG
CCL20 -0399	-384	-	5.51	GTTGGAATCACAAAA	
CCL20 -0266	-251	+	4.55	TTCTAACTTGCAAAA	
CCL20 -0160	-145	+	5.24	TTTTTAAATTTTAAT	
CCL20 -0107	-92	+	6.83	CTTTGAGATACACAT	
FRMD4A	-0354	-339	-	4.51	GACTCCATAAGAAGG
FRMD4A	-0209	-194	+	5.00	TTTTTTCATTGACAT
IQCM -0538	-523	-	7.55	ATAAGCAACAGAAAG	
IQCM -0291	-276	-	4.34	ATTGGCCTAACAAGA	
IQCM -0089	-74	-	4.69	TTTTTGATGACAATA	
KIF6 -0408	-393	+	4.83	TTTTCTAGTACAAAT	
MDC1 -0526	-511	+	5.25	TTTTCAAAAGCAGAC	
MDC1 -0491	-476	-	4.72	TTATACATATAAAAC	

5 MA0035.2 Gata1 10.8778685237 0.372818182556 -275:-121 8.85689275392e-06

list of hits

ADGRL2	-0238	-227	+	7.01	CCTGATAAAAG
ADGRL2	-0125	-114	-	8.70	TTCTTATCTTA
CCL20 -0139	-128	-	8.87	TTCTTATCACC	
CCL20 -0121	-110	-	5.48	CCCTTCTCTTT	
KIF6 -0236	-225	+	6.33	AGAGAGAAGGA	
KIF6 -0198	-187	-	6.90	CGGTTATCACC	
MDC1 -0275	-264	-	5.80	TTCTAATCTTT	
MDC1 -0232	-221	+	6.95	AATGATAAGTA	
MDC1 -0215	-204	-	5.48	TTTTTCTCTGC	

6 MA0068.1 Pax4 11.0044478009 0.441269852771 -2978:-2927 2.17604752364e-05

list of hits

ARFIP1 -2966	-2936	+	5.74	AAATTATTGTGATACTATGAGAATTCCCCT	
ARFIP1 -2932	-2902	-	6.60	AAGATCGGAAGGTAGTACCTTCTTTCTTTT	
CCL20 -2958	-2928	-	6.51	ATGTTATGTTATTTATATGTGTAGTTTTTT	
CCL20 -2928	-2898	-	5.99	TGTGTGTTTTTGCTATTTAATACTAGTTTTT	
FRMD4A	-2978	-2948	-	6.60	TCACTGTTTGTTTGATGAGGGTTTATTTTT
IQCM -2952	-2922	-	5.31	TTAAAAAATCTGTGATTTGCAATTTAATTC	
KIF6 -2967	-2937	-	6.38	TTGGGAATGCCTATTTATTTTCTTATTTTT	
KIF6 -2927	-2897	-	6.27	AGAGGTGTGTAATAGTATCTGATTATGGTT	

7	MA0046.1	HNF1A	15.5481691653	0.25850340857	-556:-121	2.20101818766e-05
		list of hits				
		ADGRL2	-0556	-542	-	5.72 GGAAAAAAAAAACA
		ADGRL2	-0474	-460	-	4.65 ATCATTAATAACA
		ADGRL2	-0411	-397	+	8.75 GATTAATTTTTTCA
		ADGRL2	-0396	-382	+	3.46 AATAAATATTCTGC
		ADGRL2	-0168	-154	+	7.33 AGTAAATTTTCCC
		CCL20	-0242	-228	-	3.73 TCTATTTATTTATT
		CCL20	-0158	-144	-	7.11 TTAAATTTTAATC
		CCL20	-0142	-128	+	6.29 TGTTTCTTATCACC
		FRMD4A	-0538	-524	+	4.70 AATAAATAAATAAA
		FRMD4A	-0522	-508	+	4.19 AATAAATAAATAAT
		FRMD4A	-0387	-373	+	4.29 TATTAGTAATTGCT
		FRMD4A	-0250	-236	+	5.69 AATTATTATATAAC
		IQCM	-0494	-480	-	5.49 GGTGATTGTAAACA
		IQCM	-0346	-332	-	5.40 GGAAAACACTAATT
		IQCM	-0121	-107	-	6.21 TTCAAAGATTAATT
		MDC1	-0405	-391	+	3.48 GGTTTTTTTTTCTT
		MDC1	-0287	-273	+	6.26 TGTTAAAATTTATT
		MDC1	-0232	-218	-	4.38 AATGATAAGTAATT
8	MA0002.2	RUNX1	10.4014248352	0.501590918453	-2628:-2488	2.55485295182e-05
		list of hits				
		ARFIP1	-2601	-2590	-	6.04 TTGCCACAGCC
		ARFIP1	-2555	-2544	-	6.65 ACACCACAGCT
		ARFIP1	-2524	-2513	-	8.82 AACCCACAGAG
		CCL20	-2628	-2617	+	5.69 CATTGTGGCTC
		CCL20	-2585	-2574	+	6.47 GGATGTGGGTT
		CCL20	-2528	-2517	+	6.65 AGCTGTGGTGT
		CCL20	-2510	-2499	+	6.06 AGATGTGGCTT
		CCL20	-2488	-2477	+	8.04 TGCTGTGGCTA
		IQCM	-2508	-2497	+	8.25 ATTTGTGGCTT
		MDC1	-2576	-2565	-	6.26 GAACCACATCC
9	MA0115.1	NR1H2::RXRA	27.8780468276	0.444705883808	-1509:-846	4.26757886645e-05

list of hits					
ADGRL2	-1400	-1383	-	-4.52	TCTGACCTGTGTACTAG
ADGRL2	-0990	-973	+	-4.27	AGAGTTTTTAATGTCATT
ADGRL2	-0879	-862	-	-5.93	ACTGATTTTTTTCCTTT
ARFIP1 -1217	-1200	-	-4.27	ATTTACTTTTGAAACAT	
ARFIP1 -0939	-922	+	-4.24	AGCTGTCAAAGGAAAAG	
CCL20 -1249	-1232	+	-6.37	AAAGTTGGAAGGGCCAG	
FRMD4A	-1477	-1460	+	-5.27	TGAAGCCAAAAGTAAAC
FRMD4A	-1332	-1315	-	-6.33	TTTGAGTTTTGTACCTT
IQCM -1452	-1435	-	-6.36	CTGGATCTTTAACCCAC	
IQCM -1184	-1167	+	-5.80	ACTGGTGAAAGATAAAG	
IQCM -0846	-829	-	-4.77	AACATCCTTTGAACTTA	
KIF6 -1509	-1492	-	-5.96	CTTTACCTTTGTCAGCA	
KIF6 -1411	-1394	+	0.26	CCAGGTGATAGGACATC	
KIF6 -1301	-1284	-	-4.73	AATGACATATCAGCTTA	
MDC1 -1117	-1100	-	-6.33	CTTGGCCTCGGAATTTT	
MDC1 -0912	-895	-	-3.37	ATTGAGCGATCACCCCT	
MDC1 -0877	-860	-	-5.20	GGAGACCCCTGAGCTTT	

10 MA0032.1 FOXC1 6.50807164809 0.4453125 -1038:-1001 8.80066410366e-05

list of hits					
ADGRL2	-1025	-1017	-	5.50	TACTTTCT
ARFIP1 -1038	-1030	+	5.76	GGTGAGTA	
ARFIP1 -1001	-993	+	5.32	AGAGAGTA	
KIF6 -1013	-1005	-	5.32	TACTCTCT	