

Appendix 31: Criteria table for transcription response element inclusion in gene first intron regulatory network models

Represented for each TRE identified in the first intron regions of each gene are the TRANSFAC identifier name, the p-value, the ECF (evolutionary conservation factor), and the FR (frequency ratio) as defined in Materials and Methods. TREs included in this table are those with p-value <0.1, ECF =2, and FR >3.

TRE	p-value	Evolutionary Conservation Factor	Frequency Ratio
Up-regulated			
<i>Evi-1/V\$EVI1_05</i>	0.00003	2	13.86
<i>VBP/V\$VBP_01</i>	0.00003	2	13.86
<i>COMP1/V\$COMP1_01</i>	0.00026	1	2.62
<i>Oct-1/V\$OCT1_02</i>	0.00043	2	6.32
<i>GR/V\$GRE_C</i>	0.00045	2	14.6
<i>NERF1a/V\$NERF_Q2</i>	0.00045	1	14.6
<i>SMAD-3/V\$SMAD3_Q6</i>	0.00071	3	3.18
<i>IPF1/V\$IPF1_Q4_01</i>	0.00089	1	3.45
<i>myogenin / NF-1/V\$MYOGNF1_01</i>	0.00103	2	140
<i>C/EBPdelta/V\$CEBPDELTA_Q6</i>	0.00121	1	2.6
<i>RFX1/V\$RFX1_02</i>	0.00169	2	10.43
<i>c-Ets-2/V\$ETS2_B</i>	0.00169	1	177.28
<i>MEF-2/V\$MMEF2_Q6</i>	0.0023	1	0.35
<i>HNF-4 direct repeat 1/V\$HNF4_DR1_Q3</i>	0.00274	2	0.195
<i>TCF-4/V\$TCF4_Q5</i>	0.00339	2	0.25
<i>GATA-3/V\$GATA3_03</i>	0.00356	2	3.5
<i>HP1 site factor/V\$HP1SITEFACTOR_Q6</i>	0.004	2	8.11
<i>Muscle TATA box/V\$MTATA_B</i>	0.00412	3	2.79
<i>FOXP3/V\$FOXP3_Q4</i>	0.00461	2	3.41
<i>Pax-6/V\$PAX6_01</i>	0.00561	1	0.29
<i>AP-1/V\$AP1_Q2</i>	0.00588	2	1.63
<i>Gfi-1/V\$GFI1_01</i>	0.00598	1	16
<i>ATF6/V\$ATF6_01</i>	0.00703	1	3.75
<i>aMEF-2/V\$AMEF2_Q6</i>	0.00715	1	97
<i>CRE-BP1/V\$CREBP1_01</i>	0.00756	1	6.64
<i>TATA/V\$TATA_C</i>	0.00756	1	6.64
<i>CCAAT box/V\$CAAT_01</i>	0.00822	1	0.28
<i>HNF-1/V\$HNF1_01</i>	0.00918	2	7.35
<i>SMAD-4/V\$SMAD4_Q6</i>	0.01012	1	4.41
<i>v-Myb/V\$VMYB_01</i>	0.01028	2	210
<i>FOXJ2/V\$FOXJ2_02</i>	0.01175	1	0
<i>core-binding factor/V\$COREBINDINGFACTOR_Q6</i>	0.01175	2	290
<i>C/EBP/V\$CEBP_C</i>	0.01251	2	5.62
<i>NF-kappaB/V\$NFKB_Q6_01</i>	0.01439	2	1.6
<i>GATA-1/V\$GATA1_02</i>	0.01475	3	3.16
<i>NF-Y/V\$NFY_Q6_01</i>	0.01475	2	3.16
<i>NF-kappaB (p50)/V\$NFKAPPAB50_01</i>	0.01706	2	9.6
<i>POU3F2/V\$POU3F2_02</i>	0.01706	2	9.6
<i>OCT-x/V\$OCT_C</i>	0.01822	1	9.73
<i>Nrf2/V\$NRF2_Q4</i>	0.01825	1	0.6
<i>AP-1/V\$AP1_C</i>	0.01893	2	4.87

Barbie Box/V\$BARBIE_01	0.01893	1	4.87
GCM/V\$GCM_Q2	0.01893	1	4.87
SREBP-1/V\$SREBP1_Q6	0.02016	1	83
Pax-3/V\$PAX3_B	0.02117	2	1.86
MAZR/V\$MAZR_01	0.02274	2	2.46
XFD-2/V\$XFD2_01	0.02685	1	73
Hand1:E47/V\$HAND1E47_01	0.02809	1	260
NKX3A/V\$NKX3A_01	0.03192	3	2.67
Nkx2-5/V\$NKX25_02	0.03192	2	2.67
Oct-1/V\$OCT1_05	0.03243	2	6.86
c-Ets-1/V\$ETS1_B	0.03243	1	48
AP-1/V\$AP1_Q4	0.03392	2	1.63
LEF1TCF1/V\$LEF1TCF1_Q4	0.0363	2	0
c-Myb/V\$CMYB_01	0.0363	1	73
HFH-3/V\$HFH3_01	0.03642	2	3.03
TFIIA/V\$TFIIA_Q6	0.04285	1	1.62
MyoD/V\$MYOD_01	0.0439	2	2.04
C/EBPgamma/V\$CEBPGAMMA_Q6	0.0442	2	1.71
HLF/V\$HLF_01	0.0461	2	2.12
Brn-2/V\$BRN2_01	0.05138	1	5.33
XFD-3/V\$XFD3_01	0.05138	1	48
SF-1/V\$SF1_Q6	0.05202	3	1.61
TTF1/V\$TTF1_Q3	0.06238	2	2.37
Pax/V\$PAX_Q6	0.0729	1	1.53
CREB/V\$CREB_Q2	0.07329	2	4.36
Lhx3/V\$LHX3_01	0.07334	1	3.04
AML/V\$AML_Q6	0.07824	2	24
AR/V\$AR_03	0.07824	2	24
AREB6/V\$AREB6_01	0.07824	1	24
ATATA/V\$ATATA_B	0.07824	1	24
AhR:Arnt/V\$AHRARNT_01	0.07824	1	24
Hox-1.3/V\$HOX13_01	0.07824	1	24
PPARalpha:RXR-alpha/V\$PPARA_02	0.07824	1	24
TGIF/V\$TGIF_01	0.07824	1	24
Tax/CREB/V\$TAXCREB_02	0.07824	1	24
c-Rel/V\$CREL_01	0.0798	1	210
CHOP:C/EBPalpha/V\$CHOP_01	0.08451	1	2.03
HNF-3beta/V\$HNF3B_01	0.08601	1	1.62
HEB/V\$HEB_Q6	0.08822	1	1.6
IRF-7/V\$IRF7_01	0.09446	1	1.97
ACAAT/V\$ACAAT_B	0.09761	1	3.69
AFP1/V\$AFP1_Q6	0.09761	3	3.69
Oct-1/V\$OCT1_B	0.09761	1	3.69
HNF-1/V\$HNF1_C	0.09814	1	1.75
Lentiviral Poly A/V\$LPOLYA_B	0.09814	2	1.75
TFE/V\$TFE_Q6	0.09814	2	1.75

Down-regulated

HNF-1/V\$HNF1_01	0.00619	3	7.35
CRE-BP1/V\$CREBP1_01	0.00686	1	6.63
IRF/V\$IRF_Q6_01	0.0229	2	9.22
SREBP-1/V\$SREBP1_02	0.0229	2	83
GATA-2/V\$GATA2_03	0.04532	1	27.67
HTF/V\$HTF_01	0.04532	1	27.67
PTF1-beta/V\$PTF1BETA_Q6	0.04532	1	27.67

Bach2/V\$BACH2_01	0.05457 1	2.75
TFE/V\$TFE_Q6	0.06333 2	3.125
SOX-9/V\$SOX9_B1	0.06623 1	4.44
CDP/V\$CDP_01	0.06727 1	16.6
VBP/V\$VBP_01	0.08875 1	11.86
AP-1/V\$AP1_Q2	0.0931 1	3.72