

Appendix 9: Statistically over-represented TREs derived from the PAINT analysis of the rat first intron regions.

Represented for each TRE identified in the first intron sequences is the cluster in which the TRE was determined to be enriched, the TRANSFAC identifier and the p-value of the TRE in both gene sets.

Group/Cluster	TRE	p-values		
		Undifferentiated	Differentiated	
Cluster 1: TREs significantly over-represented in Undifferentiated cluster (p-value<0.1)	Hmx3/V\$HMX1_01	0	1	
	XFD-3/V\$XFD3_01	0.00207	1	
	GR/V\$GRE_C	0.00382	1	
	MEF-2/V\$MEF2_02	0.00382	1	
	SRF/V\$SRF_C	0.00397	0.12874	
	AP-1/V\$AP1_Q2	0.00427	0.65737	
	Oct-1/V\$OCT1_02	0.00619	0.032	
	POU3F2/V\$POU3F2_02	0.011	0.06642	
	PR/V\$PR_01	0.011	1	
	AP-1/V\$AP1_Q4	0.01503	0.14006	
	Nkx2-5/V\$NMX25_02	0.01819	0.00179	
	CRE-BP1:c-Jun/V\$CREBP1CJUN_01	0.01921	0.57246	
	ATF3/V\$ATF3_Q6	0.0211	1	
	Freac-7/V\$FREAC7_01	0.03356	1	
	Muscle TATA box/V\$MTATA_B	0.03909	0.24424	
	HFH-3/V\$HFH3_01	0.04207	0.40108	
	CREB/V\$CREB_01	0.04748	0.5401	
	FOXP3/V\$FOXP3_Q4	0.04868	0.01233	
	Evi-1/V\$EVI1_05	0.04877	0.00673	
	RFX1/V\$RFX1_02	0.04877	1	
	CREB/V\$CREB_Q4_01	0.05091	0.27666	
	MAZR/V\$MAZR_01	0.05956	0.00561	
	ATF4/V\$ATF4_Q2	0.06094	0.29342	
	APOLYA/V\$APOLYA_B	0.06261	1	
	MEIS1A:HOXA9/V\$MEIS1AHOXA9_01	0.06261	1	
	MEIS1B:HOXA9/V\$MEIS1BHOXA9_02	0.06261	1	
	NF-Y/V\$NFY_C	0.06261	1	
	Tal-1alpha:E47/V\$TAL1ALPHAE47_01	0.06261	0.02261	
	XBP-1/V\$XBP1_01	0.06261	1	
	CDP CR3+HD/V\$CDPCR3HD_01	0.06563	1	
	SOX/V\$SOX_Q6	0.06563	1	
	LEF1TCF1/V\$LEF1TCF1_Q4	0.07184	0.04738	
	NKX3A/V\$NKX3A_01	0.07184	1	
	TTF1/V\$TTF1_Q3	0.08056	1	
	myogenin / NF-1/V\$MYOGNF1_01	0.08355	0.32587	
	CREB/V\$CREB_Q2_01	0.09604	1	
	Cluster 2: TREs significantly over-represented in Differentiated cluster (p-value<0.1)	Sox-5/V\$SOX5_01	1	0
		Nkx2-5/V\$NMX25_02	0.01819	0.00179
		aMEF-2/V\$AMEF2_Q6	1	0.00455
		LXR, PXR, CAR, COUP, RAR/V\$DR4_Q2	0.88587	0.00515
MAZR/V\$MAZR_01		0.05956	0.00561	
Evi-1/V\$EVI1_05		0.04877	0.00673	
TFIIA/V\$TFIIA_Q6		0.81423	0.00904	
RFX1 (EF-C)/V\$EFC_Q6		0.13768	0.00951	
FOXP3/V\$FOXP3_Q4		0.04868	0.01233	
Tal-1alpha:E47/V\$TAL1ALPHAE47_01		0.06261	0.02261	
HNF-4alpha/V\$HNF4ALPHA_Q6		0.55557	0.02348	
Oct-1/V\$OCT1_02		0.00619	0.032	
HES1/V\$HES1_Q2		0.19278	0.032	
POU1F1/V\$POU1F1_Q6		0.15566	0.03596	
Nkx2-2/V\$NMX22_01		0.59985	0.03686	
Lmo2 complex/V\$LMO2COM_02		1	0.03686	
COMP1/V\$COMP1_01		0.19363	0.04016	
CACCC-binding factor/V\$CACCCBINDINGFACTOR_Q6			0.1214	
COUP direct repeat 1/V\$COUP_DR1_Q6		0.1214	0.04474	
Olf-1/V\$OLF1_01		1	0.04474	
LEF1TCF1/V\$LEF1TCF1_Q4		0.07184	0.04738	
c-Ets-1(p54)/V\$CETS1P54_01		0.70692	0.04806	
Osf2/V\$OSF2_Q6		0.82412	0.05605	
TEF/V\$TEF_Q6		0.10926	0.06497	
POU3F2/V\$POU3F2_02		0.011	0.06642	
COUP-TF, HNF-4/V\$COUP_01		0.1766	0.06642	
Tal-1beta:E47/V\$TAL1BETAE47_01		0.1766	0.06642	
E2F-1:DP-2/V\$E2F1DP2_01		0.73171	0.07127	

E2F-4:DP-2/V\$E2F4DP2_01	0.73171	0.07127
Lhx3/V\$LHX3_01	0.74911	0.07778
TCF11:MaG/V\$TCF11MAFG_01	0.22842	0.08763
SREBP-1/V\$SREBP1_01	1	0.08763
SRF/V\$SRF_Q6	1	0.08763
ZID/V\$ZID_01	1	0.08763
HNF-4/V\$HNF4_01	0.45228	0.08809
GATA-4/V\$GATA4_Q3	0.78375	0.0997