

Appendix 7: Statistically over-represented TREs derived from the PAINT analysis of the mouse 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)	Tal-1alpha:E47/V\$TAL1ALPHAE47_01	0	1	
	HES1/V\$HES1_Q2	0.00009	0.18003	
	AP-1/V\$AP1_Q2	0.00014	0.22548	
	POU1F1/V\$POU1F1_Q6	0.00137	0.46773	
	RFX1/V\$RFX1_Q2	0.00148	0.09413	
	AFP1/V\$AFP1_Q6	0.00153	1	
	Oct-1/V\$OCT1_Q2	0.00153	1	
	SMAD-3/V\$SMAD3_Q6	0.00327	1	
	SOX/V\$SOX_Q6	0.00352	0.11635	
	NF-kappaB (p50)/V\$NFKAPPAB50_01	0.00548	1	
	MAZR/V\$MAZR_01	0.01232	0.29977	
	v-Myb/V\$VMYB_01	0.01291	0.75405	
	GATA-1/V\$GATA1_Q3	0.01524	0.41	
	Zta/V\$ZTA_Q2	0.01566	1	
	GATA-2/V\$GATA2_Q2	0.01678	1	
	Poly A/V\$LDSPOLYA_B	0.01708	0.23479	
	Nkx2-5/V\$NKX25_Q2	0.01966	0.01079	
	ARP-1/V\$ARP1_Q1	0.02984	1	
	Oct-1/V\$OCT1_Q5	0.02984	1	
	LEF1TCF1/V\$LEF1TCF1_Q4	0.03155	0.06057	
	FOXP3/V\$FOXP3_Q4	0.03175	1	
	ATF3/V\$ATF3_Q6	0.03839	0.36297	
	Staf/V\$STAF_Q2	0.0422	1	
	PPAR/V\$PPARG_Q3	0.04311	0.4946	
	HNF-4 direct repeat 1/V\$HNF4_DR1_Q3	0.04509	0.05045	
	HFH-1/V\$HFH1_Q1	0.04738	0.00526	
	CDP CR1/V\$CDPCR1_Q1	0.04962	0.50756	
	SF-1/V\$SF1_Q6	0.05081	0.87484	
	AP-1/V\$AP1_C	0.05338	0.03149	
	HNF-1/V\$HNF1_Q1	0.05338	0.25835	
	HNF-4alpha/V\$HNF4ALPHA_Q6	0.05446	0.08119	
	Myc/V\$MYC_Q2	0.0577	0.21608	
	TEF/V\$TEF_Q6	0.06369	0.08851	
	HFH-3/V\$HFH3_Q1	0.06431	0.53256	
	SRF/V\$SRF_Q5_Q1	0.06774	0.13807	
	TFE/V\$TFE_Q6	0.07436	0.35723	
	v-Maf/V\$VMAF_Q1	0.07436	0.35723	
	FOXO1/V\$FOXO1_Q2	0.07491	0.02434	
	Staf/V\$STAF_Q1	0.07491	1	
	AP-1/V\$AP1_Q4	0.0819	0.58193	
	TCF-4/V\$TCF4_Q5	0.08411	0.80831	
	E2F/V\$E2F_Q3	0.09041	1	
	SRF/V\$SRF_Q5_Q2	0.09041	0.01074	
	Lentiviral Poly A/V\$LPOLYA_B	0.09054	0.18878	
	E2F-1/V\$E2F1_Q4_Q1	0.09437	1	
	Cluster 2: TREs significantly over-represented in Differentiated cluster (p-value<0.1)	Cdc5/V\$CDC5_Q1	0.8747	0.00343
		GATA-4/V\$GATA4_Q3	0.27233	0.0036
HFH-1/V\$HFH1_Q1		0.04738	0.00526	
SRF/V\$SRF_Q5_Q2		0.09041	0.01074	
Nkx2-5/V\$NKX25_Q2		0.01966	0.01079	
Hand1:E47/V\$HAND1E47_Q1		0.23548	0.01373	
HNF-3beta/V\$HNF3B_Q1		0.1547	0.02091	
Ik-1/V\$IK1_Q1		1	0.02208	
Oct-1/V\$OCT1_Q6		0.54411	0.02208	
FOXO1/V\$FOXO1_Q2		0.07491	0.02434	
Pit-1/V\$PIT1_Q6		0.84315	0.02736	
AP-1/V\$AP1_C		0.05338	0.03149	
MEF-2/V\$MEF2_Q6_Q1		0.12931	0.04245	
HNF-1/V\$HNF1_Q6		0.918	0.04276	
Amt/V\$ARNT_Q1		0.14433	0.04814	
HNF-4 direct repeat 1/V\$HNF4_DR1_Q3		0.04509	0.05045	
LEF1TCF1/V\$LEF1TCF1_Q4		0.03155	0.06057	
XFD-1/V\$XFD1_Q1		0.20867	0.0714	
alpha-CP1/V\$ALPHACP1_Q1		1	0.0714	

HNF-4alpha/V\$HNF4ALPHA_Q6	0.05446	0.08119
TEF/V\$TEF_Q6	0.06369	0.08851
RFX1/V\$RFX1_02	0.00148	0.09413
TATA/V\$TATA_C	0.26828	0.09413
CHOP:C/EBPa1pha/V\$CHOP_01	0.82605	0.09603