

Table S1.

Transcription factor binding motif	Description	Number of regions enriched	Brain regions enriched
CTTTGT_V\$LEF1_Q2	Genes with promoter regions containing the motif CTTTGT which matches annotation for LEF1: lymphoid enhancer-binding factor 1	5	EC/HIP/MTG/SFG/VCX
GGGCGGR_V\$SP1_Q6	Genes with promoter regions containing the motif NGGGGCGGGGYN which matches annotation for SP1:Sp1 transcription factor	5	HIP/MTG/SFG/PC/VCX
GGGAGGRR_V\$MAZ_Q6	Genes with promoter regions containing the motif GGGAGGRR which matches annotation for MAZ: MYC-associated zinc finger protein	4	HIP/MTG/SFG/VCX
GGGTGRR_V\$PAX4_Q3	Genes with promoter regions containing the motif GGGTGRR which matches annotation for PAX4:paired box gene 4	4	EC/MTG/SFG/VCX
RCGCANGCGY_V\$NRF1_Q6	Genes with promoter regions containing the motif TGACCTY which matches annotation for NRF1: nuclear respiratory factor 1	4	EC/HIP/SFG/VCX
TAATTA_V\$CHX10_Q1	Genes with promoter regions containing the motif TAATTA which matches annotation for VSX1: visual system homeobox 1 homolog, CHX10-like (zebrafish)	4	EC/MTG/SFG/VCX
V\$SRY_Q2	Genes with promoter regions containing the motif NWWAACAAWANN which matches annotation for SRY:sex determining region Y	4	HIP/MTG/SFG/VCX
CAGGTG_V\$E12_Q6	Genes with promoter regions containing the motif CAGGTG which matches annotation for TCF3: transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	3	EC/MTG/SFG
CATTGTYY_V\$SOX9_B1	Genes with promoter regions containing the motif CATTGTYY which matches annotation for SOX9: SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sex-reversal)	3	HIP/MTG/SFG
GCCATNTG_V\$YY1_Q6	Genes with promoter regions containing the motif GGGTGRR which matches annotation for YY1:YY1 transcription factor	3	HIP/MTG/VCX
TGACCTY_V\$ERR1_Q2	Genes with promoter regions containing the motif TGACCTV which matches annotation for ESRRA:estrogen-related receptor alpha	3	EC/MTG/SFG
TTGTTT_V\$FOXO4_Q1	Genes with promoter regions containing the motif TTGTTT which matches annotation for MLLT7: myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 7	3	EC/MTG/SFG

V\$ARNT_02	Genes with promoter regions containing the motif NNNNNRTCACGTGAYNNNNN which matches annotation for ARNT: aryl hydrocarbon receptor nuclear translocator	3	HIP/MTG/PC
V\$CREB_Q4_01	Genes with promoter regions containing the motif CNNTGACGTMA which matches annotation for CREB1: cAMP responsive element binding protein 1	3	MTG/PC/VCX
V\$E2F_Q6_01	Genes with promoter regions containing the motif NKCGCGCSAAAN which matches annotation for E2F TFD1: transcription factor Dp-1	3	HIP/MTG/VCX
V\$HLF_01	Genes with promoter regions containing the motif GTTACRYAAT which matches annotation for HLF: hepatic leukemia factor	3	HIP/MTG/SFG
YGCANTGCR_UNKNOWN	Genes with promoter regions containing the motif YGCANTGCR. Motif does not match any known transcription factor	3	MTG/PC/VCX
CTGCAGY_UNKNOWN	Genes with promoter regions containing the motif CTGCAGY. Motif does not match any known transcription factor	3	EC/MTG/VCX
SMTTTTGT_UNKNOWN	Genes with promoter regions containing the motif SMTTTTGT. Motif does not match any known transcription factor	3	EC/HIP/MTG