

TF Motif	Z-value of Motif Activity	PCC	Pattern	Status in the Comparison
ERG	5,21	ERG	ACAGGAAGTG	Up-regulated in Human Primary LSECs
SPI1	5,02	SPI1	AGGAAGT	Up-regulated in Human Primary LSECs
IRF2_STAT2_IRF8_IRF1	4,71	IRF1	AAGGAAAGCGA AACCGAAAC	Up-regulated in Human Primary LSECs
PPARG	4,04	PPARG	CTGGGTCACGG TGACCCACT	Up-regulated in Human Primary LSECs
REL	4,03	REL	GGGGATTTCC	Up-regulated in Human Primary LSECs
KLF3	3,93	KLF3	TGCCTGGGTGT GGCT	Up-regulated in Human Primary LSECs
PATZ1_KLF4	3,36	KLF4	GGGGGAGGGG CCG	Up-regulated in Human Primary LSECs
NFATC2_NFATC3	3,67	NFATC3	TTTTCCA	Up-regulated in Human Primary LSECs
ZNF711_TFAP2A_TFAP2D	3,19	ZNF711	AGGCCTAG	Up-regulated in Human Primary LSECs
ELF2_GABPA_ELF5	3,15	ELF2	CTTCCGG	Up-regulated in Human Primary LSECs
ID4_TCF4_SNAI2	6,76	TCF4	TACACCTGGC	Up-regulated in hiPSCs
MAZ_ZNF281_GTF2F1	6,23	MAZ	GGGGGGGGGA GGGAGGG	Up-regulated in hiPSCs
ZEB1	5,47	ZEB1	CTCACCTG	Up-regulated in hiPSCs
RFX2_RFX3	4,31	RFX3	CGGTTGCCATG GCAAC	Up-regulated in hiPSCs
REST	4,29	REST	GGCGCTGTCCA TGGTGCTGAA	Up-regulated in hiPSCs
PBX3	4,01	PBX3	CCTGTCAATCA	Up-regulated in hiPSCs
RCOR1_MTA3	3,42	MTA3	GGAGGCGGGG	Up-regulated in hiPSCs
KLF16_SP2	3,2	SP2	GCCACGCCCC C	Up-regulated in hiPSCs

ETV1_ERF_F EV_ELF1	3,19	ETV1	CTCAACTTCCG GTAGC	Up-regulated in hiPSCs
AHR_ARNT2	3,15	ARNT2	TGCGTG	Up-regulated in hiPSCs

Table 2: Top 10 Transcription Factor (TF) motifs extracted in the comparison between Human Primary LSECs and hiPSCs from the FANTOM5 database by ISAMARA analysis, sorting by highest Z-value. “TF motif” represents a set of Transcription Factors with similar target nucleotide sequence pattern identified by CAGE. “PCC” is the gene with the strongest Pearson correlation coefficient for the TF Motif identified. “Pattern” describes the nucleotide sequence pattern of the motif for the PCC selected genes.