

Article: Dependence of Proximal GC-boxes and Binding Transcription Factors in the Regulation of Basal and Valproic Acid-Induced Expression of t-PA

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Online Resource 1. Regulation of Sp and KLF transcription factors by VPA in HUVEC and presentation of selected proteins for siRNA studies

A.

Gene	Fold change
sp1	0.96
sp2	0.72
sp3	1.04
sp4	1.26
sp5	1.05
sp6	1.20
sp7	0.97
sp8	0.96
sp9	1.02
KLF1	1.06
KLF2	0.98
KLF3	1.10
KLF4	1.31
KLF5	1.33
KLF6	0.98
KLF7	1.03
KLF8	1.03
KLF9	1.30
KLF10	0.69
KLF11	0.91
KLF12	1.08
KLF13	1.23
KLF14	1.00
KLF15	0.99
KLF16	1.00
KLF17	0.93

B.

Gene	Selection criteria	siRNA	Gene Expression Assay
sp1	Endothelial described, t-PA context	L-026959-00-0005	Hs00916521_m1
sp2	Regulated	L-015955-00-0005	Hs00370726_m1
sp3	Endothelial described, t-PA context	L-023096-00-0005	Hs01595811_m1
sp4	Regulated	L-006562-00-0005	Hs00162095_m1
KLF2	Endothelial described	L-006928-00-0005	Hs00360439_g1
KLF4	Regulated, Endothelial described	L-005089-00-0005	Hs00358836_m1
KLF5	Regulated	L-013571-00-0005	Hs00156145_m1
KLF6	Endothelial described	L-021441-00-0005	Hs00810569_m1
KLF9	Regulated	L-011223-00-0005	Hs00230918_m1
KLF10	Regulated	L-006566-00-0005	Hs00921811_m1
KLF13	Regulated	L-006994-00-0005	Hs00429818_m1
KLF15	Endothelial described	L-006975-00-0005	Hs00362736_m1

C.

Gene	siRNA	Gene Expression Assay
p300	L-003486-00-0005	Hs_EP300_1_SG
PCAF	L-005055-00-0005	Hs00187332_m1

A. HUVECs (n=4) were stimulated with 4 mM VPA for 24 h and analyzed by microarray for alteration in gene expression. The table shows expression of all characterized Sp and KLF transcription factors [1, 2] relative to untreated control cells. Data from these experiments were recently presented elsewhere [3] and the total set of raw data are available at <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?token=dnglzumweoisshk&acc=GSE23909>.

B. Selected Sp and KLF factors for siRNA knock down studies. The selection criteria was either significantly regulated ($p < 0.001$) by VPA in microarray experiments [3] or previously described in an endothelial gene regulation context; Sp1 [4], Sp3 [5], KLF2 [6], KLF4 [7], KLF6 [8], KLF15 [9]. The table also shows product numbers of used siRNA (Dharmacon) and gene expression assays (Applied Biosystems). C. Products used for siRNA (Dharmacon) depletion of p300 and PCAF as well as gene expression assays for p300 (Qiagen) and PCAF (Applied Biosystems).

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