

Table S1. High-throughput next-generation RNA sequencing of non-malignant HCEC-1CT and malignant HCT116 and DLD-1 cell lines originating from colon tissue. In the blue-colored table are presented FPKM values for the whole expression of the *SMAD4* gene, while in the green-colored table are presented FPKM values for each SMAD4 transcript.

gene_id	gene_name	gene_locus
ENSG00000141646	SMAD4	18:51028394-51085045

transcript_id	transcript_name	gene_id	gene_name	transcript_locus
ENST00000589076	SMAD4-207	ENSG00000141646	SMAD4	18:51030100-51048708
ENST00000590061	SMAD4-210	ENSG00000141646	SMAD4	18:51030213-51048857
ENST00000592911	SMAD4-215	ENSG00000141646	SMAD4	18:51030597-51058154
ENST00000588745	SMAD4-205	ENSG00000141646	SMAD4	18:51047047-51078467
ENST00000592186	SMAD4-214	ENSG00000141646	SMAD4	18:51047047-51078467
ENST00000342988	SMAD4-201	ENSG00000141646	SMAD4	18:51030213-51085039
ENST00000398417	SMAD4-202	ENSG00000141646	SMAD4	18:51029614-51085045
ENST00000591126	SMAD4-212	ENSG00000141646	SMAD4	18:51052326-51079777
ENST00000611848	SMAD4-217	ENSG00000141646	SMAD4	18:51058353-51079143
ENST00000591914	SMAD4-213	ENSG00000141646	SMAD4	18:51030213-51049324
ENST00000589941	SMAD4-209	ENSG00000141646	SMAD4	18:51044959-51048798
ENST00000589706	SMAD4-208	ENSG00000141646	SMAD4	18:51047179-51049565
ENST00000588860	SMAD4-206	ENSG00000141646	SMAD4	18:51028394-51048816
ENST00000590499	SMAD4-211	ENSG00000141646	SMAD4	18:51066822-51077291
ENST00000586253	SMAD4-204	ENSG00000141646	SMAD4	18:51077251-51078870
ENST00000593223	SMAD4-216	ENSG00000141646	SMAD4	18:51067113-51077130
ENST00000585448	SMAD4-203	ENSG00000141646	SMAD4	18:51051093-51054916

HCT116 (FPKM)	DLD-1 (FPKM)	HCEC-1CT (FPKM)
30.884188	43.799004	30.83934

HCT116 (FPKM)	DLD-1 (FPKM)	HCEC-1CT (FPKM)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
3.168145	1.815537	2.689202
0.013276	0.001923	0.038767
4.459052	9.533424	6.472704
1.792871	2.256931	1.294333
11.492303	11.510384	1.571642
0.036732	0.158341	4.97713
0.330983	3.068607	2.06937
0	0	0
0.288089	1.159342	0.478574
0.275016	0.487777	0.344155
0.515416	1.476431	0.664413
0	0	0

Table S2. Differentially bound transcriptional regulators to SMAD4 promoters C and D predicted by bioinformatic tools Tfsitescan, AliBaba2.1, PROMO, TFBIND and CiiDER.

Promoter C	Promoter D
ADF1	OCT1
AHR	AFP1
AP2	ALX1
AP3	ALX4
ARNT::HIF1A	ANTP
CMYC	AP1
CPE_BINDING_PRO	AP1FJ
CTCFL	ARID3B
E1AF	ARID5A
E2F1	ARX
E2F2	ASCL1
E2F4	ATF3
E2FDRTF	ATOH1
E4F1	ATOH7
EBF1	BATF
EBF3	BATF::JUN
EGR1	BATF3
EGR3	BHLHA15
EGR4	BRACH
EHF	BRN2
ELF1	BSX
ELK1	C/EBP
ELK3	C/EBPBETA
ELK4	C/EBPDELTA
ETF	CDPCR1
ETS1	CDPCR3HD
ETS2	CDX4
ETV4	CEBPALPHA
FEV	CF1
FOXD1	CIZ8
FOXE1	CJUN
FO XK1	COUP
FO XK2	CREB
FOXO6	CUX1
FOXP2	CUX2
FOXQ1	DBP
GABPA	DDIT3::CEBPA
GCF	DL
GCM1	DLX1
GLI3	DLX3

HAND1::TCF3	DLX4
HEN1	DMRTA2
HES1	DPRX
IRF2	DRGX
ISL1	E4BP4
ISL2	ELF5
KLF1	EN1
KLF4	EOMES
KLF5	FOSB::JUNB
KLF9	FOSL1::JUNB
KROX20	FOSL1::JUND
LVC	FOXA2
MAZ	FOXA3
MEF2C	FOXB1
MEP1	FOXC1
MSANTD3	FOXC2
MTBF	FOXH1
NET_SAP2	FOXI1
NF1B1	FOXJ2
NFIC	FOXJ3
NFKAPPAB1	FOXN3
NFMUE1	FOXO1
NKX23	FOXP1
NKX25	FTZ
NKX3.2	GATA1
NKX31	GATA2
NKX32	GATA3
NR1I3	GBX1
NR4A2	GBX2
NRF1	GCN4
OCT1A	GFI1
OSR1	GFI1B
OSR2	GLO
OVOL1	GMEB1
OVOL2	GMEB2
P40X	GRE
PAX4PD	GSX1
PAX5	H3ABP
PEA2_2	HESX1
PLAGL1	HFH2
POU3F2	HIC1
POU3F3	HLF
POU5F1B	HLTF
PPARALPHA:RXRAL	HMBOX1
R2	HMX2
RAP1	HNF1A

RARALPHA1	HNF1B
RARBETA:RXRALPH	HNF1C
REB1	HNF3B
RELA	HNF4A
RELB	HNF4G
REPRESSOR_OFA	HOXA10
RORB	HOXA11
RREB1	HOXA2
RUNX3	HOXA6
SIF	HOXA7
SOX12	HOXB5
SP1	HOXB8
SP3	HOXB9
SP8	HOXC10
SPDEF	HOXC11
STAT5A	HOXC12
TCF12	HOXC13
TCF3	HOXC9
TCF7L1	HOXD10
TCFL5	HOXD11
TFAP2A	HOXD12
TFAP2B	HOXD3
TFAP2C	HOXD9
VEZF1	HSEBINDING_PRO
WT1	ICSBP
YY2	IK3
ZBTB14	ISGF3
ZBTB33	ISX
ZBTB6	JUN::JUNB
ZBTB7A	LBX2
ZBTB7C	LHX1
ZFP57	LHX3
ZFX	LHX6
ZIC1	LHX9
ZIC3	LIN54
ZIC4	LMX1A
ZNF219	LMX1B
ZNF423	LVB
ZNF460	LYF1
	MAFB
	MAX
	MEF2A
	MEIS2
	MEOX2
	MGA
	MIXA

MIXL1  
MNX1  
MSGN1  
MSX2  
MSX3  
MUEBPC2  
MYBL1  
NFATC1  
NFATC4  
NFBA1  
NFE2L2  
NFIX  
NKX25  
NKX28  
NKX3\_1R52C  
NKX61  
NKX63  
NOBOX  
NOTO  
NR2C2  
NR2E1  
NR4A1  
NR5A1  
NRL  
NRSF  
OCT2.1  
OTX1  
PAX6  
PDX1  
PIT1A  
PITX1  
PITX2  
PITX3  
POU2F2  
POU6F1  
POU6F2  
RAX2  
RBPJKAPPA  
RHOX11  
RORA2  
RUSH  
SCRT1  
SCRT2  
SEF1  
SHOX2  
SIX1

SMAD2::SMAD3  
SNAI1  
SNAI2  
SOX13  
SOX14  
SOX15  
SOX17  
SOX2  
SOX3  
SOX8  
SOX9  
STAT1::STAT2  
STAT2  
TAL1ALPHA47  
TAL1BETA47  
TAL1BETAITF2  
TBP  
TBR1  
TBX1  
TBX2  
TBX3  
TBX4  
TCF7L2  
TEC1  
TFAP4  
TWIST2  
UNCX  
VBP  
VMAF  
VMW65  
XBP1  
XFD1  
ZBTB12  
ZEN1  
ZKSCAN1  
ZNF217  
ZNF354C





















