

Table 1. Primer sequences

Gene name	Primer name
<i>Smad6</i>	F: CCTCCCTACTCTCGGCTGTC R: GGTAGCCTCCGTTTCAGTGTA
<i>Smad2</i>	F: GGAATAGGGCATTGTGAAGG R: CGATTGTCCAAACCCGAAC
<i>Smad3</i>	F: TGTCGTCCATCCTGCCTTTC R: GCCTTCTCGCACCATTCTC
<i>Smad1</i>	F: CTCTTCTGCTGTCCTTTTGC R: TTCTTCTTCATCGCCCTGTT
<i>Smad5</i>	F: ATGAGCAAGTATCTTAGGGTAG R: TCTGGGAGACCTGAGATTAC
<i>Smad8</i>	F: AGAGGTGTATGCCGAGTGCG R: ACGACTTCAAAGCCGTGGTG
<i>ID2</i>	F: CCCCAGAACAAGAAGGTGAG R: ATATCCGTGTTGAGGGTGGT
<i>ID3</i>	F: TCTTCAGAGCGTGGAGGTGT R: CATAAATCAGGGCAACAGAACC

Table 2. List of candidate genes

Gene id	Gene_name	Gene_description
ENSG00000120738	<i>EGR1</i>	neuronal growth regulator 1
ENSG00000144136	<i>SLC20A1</i>	solute carrier family 20 member 1
ENSG00000180447	<i>GAS1</i>	growth arrest specific 1
ENSG00000115738	<i>ID2</i>	inhibitor of DNA binding 2
ENSG00000128965	<i>CHAC1</i>	ChaC glutathione specific gamma-glutamylcyclotransferase 1
ENSG00000117525	<i>F3</i>	coagulation factor III, tissue factor
ENSG00000185650	<i>ZFP36L1</i>	ZFP36 ring finger protein like 1
ENSG00000164093	<i>PITX2</i>	paired like homeodomain 2
ENSG00000067082	<i>KLF6</i>	Kruppel like factor 6
ENSG00000075426	<i>FOSL2</i>	FOS like 2, AP-1 transcription factor subunit
ENSG00000270069	<i>MIR222HG</i>	MIR222 host gene
ENSG00000148677	<i>ANKRD1</i>	ankyrin repeat domain 1
ENSG00000111859	<i>NEDD9</i>	neural precursor cell expressed, developmentally down-regulated 9
ENSG00000166592	<i>RRAD</i>	RRAD, Ras related glycolysis inhibitor and calcium channel regulator
ENSG00000168874	<i>ATOH8</i>	atonal bHLH transcription factor 8
ENSG00000106366	<i>SERPINE1</i>	serpin family E member 1
ENSG00000117318	<i>ID3</i>	inhibitor of DNA binding 3, HLH protein
ENSG00000137834	<i>SMAD6</i>	SMAD family member 6
ENSG00000166949	<i>SMAD3</i>	SMAD family member 3
ENSG00000116584	<i>ARHGEF2</i>	Rho/Rac guanine nucleotide exchange factor 2
ENSG00000184588	<i>PDE4B</i>	phosphodiesterase 4B
ENSG00000213626	<i>LBH</i>	limb bud and heart development
ENSG00000104856	<i>RELB</i>	RELB proto-oncogene, NF-kB subunit
ENSG00000108854	<i>SMURF2</i>	SMAD specific E3 ubiquitin protein ligase 2
ENSG00000089225	<i>TBX5</i>	T-box 5
ENSG00000120833	<i>SOCS2</i>	suppressor of cytokine signaling 2

ENSG00000104998 *IL27RA* interleukin 27 receptor subunit alpha
