

Supplementary Table 1a

Cell line	Constructs transfected + treatments	effect on PP2A activity	nuclear GLI3	
			% of all cells (average \pm s.d.)	Relative amount compared to control
HeLa	GLI3-GFP		54.7 \pm 2	
HeLa	GLI3-GFP + B-Box1-myc	PP2A \uparrow	27.7 \pm 2	\downarrow
HeLa	GLI3-GFP + B-Box1-myc + Fostriecin	PP2A \uparrow + PP2A \downarrow	56.3 \pm 3	\leftrightarrow
HeLa	GLI3-GFP + α 4-V5	PP2A \downarrow	72.3 \pm 8	\uparrow
HeLa	GFP-GLI3		58.3 \pm 5	
HeLa	GFP-GLI3 + B-Box1-myc	PP2A \uparrow	30.3 \pm 5	\downarrow
HeLa	GFP-GLI3 + B-Box1-myc + Fostriecin	PP2A \uparrow + PP2A \downarrow	60.3 \pm 7	\leftrightarrow
HeLa	GFP-GLI3 + α 4-V5	PP2A \downarrow	75.0 \pm 8	\uparrow
HeLa	GLI3-myc		52.7 \pm 3	
HeLa	GLI3-myc + α 4-V5	PP2A \downarrow	61.3 \pm 4	\uparrow
HeLa	GLI3-flag		56	
HeLa	GLI3-flag + B-Box1-myc	PP2A \uparrow	32	\downarrow

Supplementary Table 1b

Cell line	Constructs transfected + treatments	effect on PP2A activity	nuclear GLI3	
			% of all cells (average \pm s.d.)	Relative amount compared to control
U373MG	GLI3-GFP		60.7 \pm 8	
U373MG	GLI3-GFP + B-Box1-myc		17.3 \pm 6	↓
U373MG	GFP-GLI3		59 \pm 7	
U373MG	GFP-GLI3 + B-Box1-myc		24.5 \pm 18	↓
U373MG	GFP-GLI3		53 \pm 4	
U373MG	GFP-GLI3 + okadaic acid	PP2A↓	65 \pm 5	↑
U373MG	GFP-GLI3 + rapamycin	PP2A↑	38 \pm 1	↓
SKMel29	GFP-GLI3		60 \pm 2	
SKMel29	GFP-GLI3 + okadaic acid	PP2A↓	71 \pm 5	↑
SKMel29	GFP-GLI3 + rapamycin	PP2A↑	47 \pm 5	↓
MeWo	GFP-GLI3		59 \pm 1	
MeWo	GFP-GLI3 + okadaic acid	PP2A↓	76 \pm 4	↑
MeWo	GFP-GLI3 + rapamycin	PP2A↑	47 \pm 6	↓

Supplementary Table 2

SHH target genes not expressed at detectable level (by RT-PCR)
SFRP1
Poliovirus receptor / CD-155
N-Myc
GLI1
MYF5
HIP
PAX7

Supplementary Table 3

Oligo-Nr.	Target gene	Sequence (5'-3') or siRNA ID #
-	non silencing	AATTCTCCGAACGTGTCACGT
11	GLI3	Ambion; 115168
14	GLI3	Ambion; 144488

Supplementary Table 4

Primer-name (real-time PCR)	Target gene	Sequence (5'-3')
GAPDH-f1	GAPDH	CCACCCATGGCAAATTCC
GAPDH-r1	GAPDH	TGGGATTTCCATTGATGACAAG
GAPDH-f2	GAPDH	CCACATCGCTCAGACACCAT
GAPDH-r2	GAPDH	AAATCCGTTGACTCCGACCTT
GLI3-f1	GLI3	GAGGGCCGTTACCATTACGA
GLI3-r1	GLI3	GGGCTACTAGATAAGGCGGAAGT
GLI3-f2	GLI3	CCAAAACAGAACGCATTCCA
GLI3-r2	GLI3	CCTGGGATTTTGCACACATATG
CCND1-f1	CCND1	TGGGTCTGTGCATTTCTGGTT
CCND1-r1	CCND1	GCTGGAAACATGCCGGTTAC
CCND1-f2	CCND1	TGCGCTGCTACCGTTGACT
CCND1-r2	CCND1	AGCGATTGTAATATTTCCAAACC
TSC22-for	TSC22	AAAATCGAGCAAGCTATGGATCTAG
TSC22-rev	TSC22	TGCTCTTTGAGGACCTCCACTT
FOXM1-for	FOXM1	TGCAGCTAGGGATGTGAATCTTC
FOXM1-rev	FOXM1	TCTGCACAGGTCTCCCGTTT
PTC1-for	PTC1	CGGCAGCCGCGATAAG
PTC1-rev	PTC1	TTAATGATGCCATCTGCATCCA
BMP4-for	BMP4	GCCAAGCGTAGCCCTAAGC
BMP4-rev	BMP4	CGCCGGCAGTTCTTATTCTT
WNT5A-for	WNT5A	GTATCAGGACCACATGCAGTACATC
WNT5A-rev	WNT5A	TGTCGGAATTGATACTGGCATT
TBX2-for	TBX2	CCCGGAGACCGACTTCATC
TBX2-rev	TBX2	TTGTGATCTTCAGCTGTGTGA

Supplementary Table 5

Primer-name (RT-PCR)	Target gene	Sequence (5'-3')
GLI3-f1	GLI3	TGCCTTCCATCCTCCTGTAC
GLI3-r1	GLI3	CTGCTGATGCATGTGGAGAG
PTC-f1	PTC1	GACCTACACAGGAGTTTCAG
PTC-r1	PTC1	GGCATGTSAGTCGGCTTTGTC
CCND1-f1	CCND1	ATGCCAACCTCCTCAACGAC
CCND1-r1	CCND1	CCTTCATCTTAGAGGCCACG