

Table S1. Statistical analysis of observed phenotypes

dnFgfr1 pCIG – whole side				
Phenotype	Molecule	Experimental	Control	P value
Expansion	<i>Msx1</i>	8/12	1/12	0.002
	<i>Bmp4</i>	7/8	1/9	<0.001
	<i>Gata2</i>	8/11	0/12	<0.001
Inhibition	<i>Sox2</i>	1/8	0/10	0.351
	<i>Bra</i>	18/20	0/15	<0.001
	<i>Wnt8c</i>	5/6	0/3	0.004
	<i>Tbx6L</i>	10/10	0/9	<0.001
	dpErk	9/9	0/7	<0.001
Pax7 assayed				
Electroporation	Phenotype	Experimental	Control	P value
Stage 3/3+	Inhibited	13/23	0/17	<0.001
	Expanded	6/23	0/17	0.011
Stage 4–	Inhibited	1/11	0/8	0.341
	Expanded	9/11	0/8	0.000
Stage 4	Inhibited	1/10	0/4	0.343
	Expanded	3/10	0/4	0.081
Snail2 assayed				
Electroporation	Phenotype	Experimental	Control	P value
Stage 3/3+	Inhibited	5/9	0/8	0.013
	Expanded	2/9	0/8	0.169
Stage 4–4	Inhibited	2/8	0/13	0.170
	Expanded	1/8	0/13	0.351
SU5402 beads				
Pax7	Stage grafted	Experimental	Control	P value
Inhibition	Stage 3/3+	7/11	0/3	0.002
	Stage 4–4	1/10	0/4	0.343
	Stage 4+/-7	0/18	1/12	0.339
Mkp3 pCIG				
Electroporation	Molecule	Experimental	Control	P value
Whole side	<i>Bra</i>	9/9	0/8	<0.001
	<i>Pax7</i>	5/5	0/5	<0.001
pNPB-restricted	<i>Pax7</i>	8/8	0/6	<0.001
pNP-restricted	<i>Pax7</i>	6/7	0/4	<0.001
dnFgfr1 pCIG – pNP restricted				
Phenotype	Molecule	Experimental	Control	P value
Ectopic expression	<i>Pax7</i>	8/8	0/7	<0.001
	<i>Msx1</i>	6/9	0/9	0.004
	<i>Bmp4</i>	4/7	1/9	0.074
Smad6 pCAβ				
Electroporation	Molecule	Experimental	Control	P value
Whole side	<i>pSmad1</i>	4/4	0/3	<0.001
	<i>Gata2</i>	3/3	0/3	<0.001
	<i>Mxs1</i>	3/3	0/3	<0.001
	<i>Pax7</i>	7/7	0/5	<0.001
	<i>Sox2/3</i>	7/7	0/5	<0.001
pNPB-restricted	<i>Pax7</i>	5/6	0/4	0.004
Co-electroporation – pNP restricted				
Pax7 ectopic expression assayed				
Comparison	Variable 1		Variable 2	P value
Smad inhibition to control	<u><i>Smad6+pCIG</i></u>		<u><i>pCIG+pCAβ</i></u>	
	0/4		0/9	>0.999
FGF inhibition to control	<u><i>dnFgfr1+pCAβ</i></u>		<u><i>pCIG+pCAβ</i></u>	
	6/8		0/9	0.003
Smad+FGF inhibition to control	<u><i>Smad6+dnFgfr1</i></u>		<u><i>pCIG+pCAβ</i></u>	
	2/8		0/9	0.170
FGF inhibition to Smad+FGF inhibition	<u><i>dnFgfr1+pCAβ</i></u>		<u><i>Smad6+dnFgfr1</i></u>	
	6/8		2/8	0.049

Student's t-tests of statistical significance, assuming unequal variance were performed, comparing treated and untreated embryos. Headings identify treatment performed. 'Experimental' and 'Control' columns list the total number of embryos displaying the given phenotype. P values were calculated comparing experimental and control embryos.