

List of probes, constructs, morpholinos and primers used in study

anti-sense mRNA in situ hybridization

Probe	Linearize	Polymerase	Reference
<i>dlx2</i>	BamHI	T7	Akimenko et al., 1994
<i>foxd3</i>	BamHI	T7	Odenthal and Nusslein-Volhard, 1998
<i>sox9b</i>	StuI	T7	Yan et al., 2005
<i>sox10</i>	Sall	T7	Dutton et al., 2001
<i>snai1b</i>	XbaI	T7	Thisse et al., 1995
<i>crestin</i>	NotI	T7	Rubinstein et al., 2000
<i>tlxa</i>	BamHI	T7	Andermann and Weinberg, 2001
<i>tfap2a</i>	NotI	T7	Furthauer et al., 1997
<i>tfap2c</i>	NotI	T3	Li and Cornell, 2007
<i>tfap2e</i>	NotI	T3	Van Otterloo et al., 2010

Probe	Linearize	Polymerase	Forward Primer	Reverse Primer
<i>tfap2b</i>	SpeI	T7	5'-ATG CAC TCG TTA TAC AGG GAT CAG C-3'	5'-AAG GCC GAG AGT TCC CTA AA-3'
<i>tfap2d</i>	SpeI	T7	5'- ATG TCA GCC ACA TTT CCG GG-3'	5'- TCT GAT TGG TGT CCG GCG TT-3'
<i>Pm-tfap2d</i>	Clal	T7	5'- ATG CGA GCT GAC GGC TCC AAC AGC-3'	5'- CTA GTC GGC CTT GCC ACC ACG ATT G-3'

mRNA mixexpression

mRNA	Linearize	Polymerase	Reference
<i>tfap2a</i>	NotI	SP6	Li and Cornell, 2007
<i>tfap2a-GR</i>	NotI	SP6	Lou et al., 2005

mRNA	Linearize	Polymerase	Forward Primer	Reverse Primer	Shuttle Vector
Dm-tfap2	NotI	SP6	5'-CAC CAT GCA CAT TCT ACA CC-3'	5'-TCA TTT CTT TTC GTT GTC AAT TTT-3'	pENTR/D-TOPO
Bf-tfap2	NotI	SP6	5'-CAC CAT GGC TCA ATT GAG C-3'	5'-TCA CTT GCC GTC CTC CAT T-3'	pENTR/D-TOPO
Pm-tfap2	NotI	SP6	5'-GAA TTC ATG CTT TTG AAA TTA CAG GAC AA-3'	5'-GAA TTC TCA CTT TCC CCG GTG ATG TT-3'	pCR4-TOPO
Pm-tfap2d	NotI	SP6	5'-CAC CAT GCG AGC TGA CGG CTC-3'	5'-CTA GTC GGC CTT GCC ACC-3'	pENTR/D-TOPO
<i>tfap2b</i>	NotI	SP6	5'-ATG CTG TGG AAA CTG GTG GAA A-3'	5'-TCA TTT CCT GTG TTT TTC CTC-3'	pSCA
<i>tfap2c</i>	NotI	SP6	5'-GAA TTC C AT GTT GTG GAA ATT AGC A-3'	5'-CCA TCG AGT CTC ACT TTC GG-3'	pCR4-TOPO
<i>tfap2d</i>	NotI	SP6	5'-GGA TCC ATG TCA GCC ACA TTT CCG GGA-3'	5'-TCA TTC CGT CTT CTC GAT TTT-3'	pSCA
<i>tfap2e</i>	NotI	SP6	5'-GGA TCC ATG TTA GTC CAC TCC TAC T-3'	5'-TTA TTT GCG GTG CTT GAG CT-3'	pSCA

Red = added restriction site or sequence for directional cloning

Morpholinos				
Name	Target	Reference	Sequence	
<i>tfap2a e2i2</i>	<i>tfap2a</i>	Li and Cornell, 2007	5'-AGC TTT TCT TCT TAC CTG AAC ATC T-3'	
<i>tfap2c e3i3</i>	<i>tfap2c</i>	Li and Cornell, 2007	5'-TCT GAC ATC†AAC†TCA CCT GAA CAT C-3	
Real-time PCR primers				
Gene	Target	Experiment	Forward Primer	Reverse Primer
<i>sox10</i>	promoter	ChIP	5'-GCA AAA CTC AGC AGC CAA TC-3	5'-TTA AAG AGC CCC GTT GTG TG-3'
<i>sox10</i>	off-target	ChIP	5'-AGC AAG AGT TGC GAG CAA AG-3'	5'-TTC AGC GGC TGT TTT CTG TC-3'
<i>sox10</i>	transcript	RT-PCR	5'-AGG AAA CTG GCG GAT CAA TA-3'	5'-CTT ATC CGT CTC GTT CAG CA-3'
<i>zgc:85942</i>	transcript	RT-PCR	5'-AAC GGT GCT CAA TCT GTG TG-3'	5'-CTG AAC ACG GTT CCA CGA G-3'
<i>?-actin</i>	transcript	RT-PCR	5'- GAG ATG ATG CCC CTC GTG-3'	5'-GCT CAA TGG GGT ATT TGA GG-3'