

**Table S1. Primer sequences (5' to 3')**

Gene	Forward	Reverse
<i>Nog</i>	TGTACGCGTGGAATGACCTA	GTGAGGTGCACAGACTTGGA
<i>Grem1</i>	ACAGCGAAGAACCTGAGGAC	CAGCTGTTGGCAGTAGGGTC
<i>Pax1</i>	CAATGACCTTCAAACACCGA	GGCAGTCCGTGTAAGCTACC
<i>Ptc</i>	GCAAGTTTTTGGTTGTGGGT	TTCTCGACTCACTCGTCCAC
<i>Bmpr1a</i>	GCTGTTCGGAGAAATTGGAA	TGAGGGAGGCTTCCTTACAG
<i>Pax1</i>	CAATGACCTTCAAACACCGA	GGCAGTCCGTGTAAGCTACC
<i>Lbx1</i>	AGACCTTTAAGGGGCTGGAG	GTGATTTTCGCCGTTTCTTG
$\beta$ -actin	GACGGCCAGGTCATCACTAT	CTTCTGCATCCTGTCAGCAA
<i>Gapdh</i>	CGTCCCGTAGACAAAATGGT	TTGATGGCAACAATCTCCAC

All annealing at 60°C.