

**S4 Table**

Primer used for genotype

Gene	Forward	Reverse	Product size
<i>Vgll4 LacZ</i>	TTCCCGCCCGACTGCTGATAACAT	GGCTGCTCCCCTCCAACAT ATTGCGTTGCGCCATCTCAGTCAG	WT:470bp; Mut:413bp
<i>Vgll4 flox</i>	TTCTTCTGGCCTCCATGGGCATTGT	ATGTTATCAGCAGTCGGGCGGGAA	WT:452bp; Mut:616bp
<i>Vgll4 minus</i>	TCCAGCTGAGCGCCGGTCGCTACCA	GACCACGTCTCCAAGATGAGCCGCA GCATAATGGCCAGCAGAGGAGACTG	WT:350bp; Mut:470bp
<i>Vgll4 eGFP</i>	GCCTCTGTCTTCCTGAAGTT GCCTAACTCGGTGTCCATC	TAACAGCGTGTCTCCTCCA TGTTCTGCTGGTAGTGGTC	WT:405bp; Mut:749bp
<i>Rosa RFP</i>	AAGGGAGCTGCAGTGGAGTA GGCATTAAAGCAGCGTATCC	CCGAAAATCTGTGGGAAGTC CTGTTCTGTACGGCATGG	WT:297bp; Mut:196bp

Primer used for quantitative RT-PCR

Gene	Forward	Reverse
<i>Vgll4</i>	ATGAACAACAATATCGGGCTTCT	GGGCTCCATGCTGAATTTCC
<i>Yap</i>	GCCATGCTTTCGCAACTGAA	CAAAACGAGGGTCCAGCCTT
<i>Ctgf</i>	TCCGGACACCTAAAATCGCC	TTCATGATCTCGCCATCGGG
<i>Cyr61</i>	AGAGGCTTCCTGTCTTTGGC	CTCGTGTGGAGATGCCAGTT
<i>Survivin</i>	AGAACAATAATTGCAAAGGAGACCA	GGCATGTCACTCAGGTCCAA
<i>Cyclin A2</i>	GGCTGACACTCTTTCCG	CTGGTAGCAAGAATTAGAGCAT
<i>Cyclin B2</i>	GAGAGTGAAGTCCTGGAA	GTGCTGATCTTCAGGAGT
<i>Cyclin D1</i>	TGAGAACAAGCAGACCATCC	TGAACTTCACATCTGTGGCA
<i>Cdk4</i>	GGGACATCAAGGTCACCCTA	CGCTTAGAAACTGACGCATT
<i>Ki67</i>	GCAGGTTAGCACTGTTATGAAAAC	GGGCCTTGGCTGTTTTACATT
<i>Gapdh</i>	GAAGGGCTCATGACCACAG	GATGCAGGGATGATGTTCTG