

## Supplementary Information

**Supplementary Table S1. The primer sequences for SqRT-PCR and qPCR**

Primer name	Primer sequences (5' to 3')	Product length (bp)
<i>GAPDH</i>	F: TCGGAGTGAACGGATTTGGC R: TGACAAGCTTCCCGTTCTCC	189
<i>PDLIM5</i> -total	F: GCAAAGCATCCCAGGCAAAT R: CGCTGTGCGTAGGTATGTGA	294
<i>PDLIM5</i> -short	F: ACATACCTACGCACAGCGAT R: CTGAAACTTCATGGTGCCAGTC	237
<i>PDLIM5</i> -long	F: GCTCCTGAATGCGGTCGTT R: ATGTCGCCAGCCTCTATGG	224
<i>PCNA</i>	F: GCAGAGCATGGACTCGTCTC R: TTGGACATGCTGGTGAGGTT	120
<i>CCND1</i>	F: TTGAAGGCGAGGTTCCAGTC R: GCTGGTTCTCTAGGTCAGCC	163
<i>CDK4</i>	F: GGCTACCTCCCGGTATGAAC R: CATCCATCAGCCGGACAACA	227
Ki67	F: GCCACTTACCTCCATCGCTA R: TATAGCGTTTCACTGCCGGG	300
MyoD	F: TCTAGCAACCCGAATCAGCG R: TCGCTGTAATAGGTGCCGTC	290
MyHC	F: CAGTCTGACGCACCTGAACG R: TTTTGCCTCGGTAGCCCTC	164
MyoG	F: CAGGGGTGCCCAGTGAA R: CGTCCTCCACTGTGATGCTG	171

**Supplementary Table S2. The primer sequences for SNP identification of the *PDLIM5* gene**

Primers	Target regions (bp)	Primer sequences (5' to 3')	Amplicon sizes (bp)
P1	-1927/-110	F: CCTACGCCATTGTGGTGCT R: TGAAGCCGTCGCGGAAAAAC	1820
P2	-1937/-1136	F: TAACAAGCTGCCTACGCCATT R: TTTCATTGGACGGTGCTAGTCC	801
P3	-1359/+86	F: GAGATTTGTCTCCCAAAGTTACCG R: CAAGTGA CTCCGTTGCGTG	1439

**Supplementary Table S3. The primer sequences for promoter region segmentation**

Primers	Primer sequences (5' to 3')	Target regions (bp)
Promoter1	F: tctatcgataggtaccCCTACGCCATTGTGGTGCT R: agtaccggaatgccaaagcttCAAGTGACTCCGTTGCGTG	-1927/+86
Promoter2	F: tctatcgataggtaccGAGATTTGTCTCCCAAAGTTACCG R: agtaccggaatgccaaagcttCAAGTGACTCCGTTGCGTG	-1439/+86
Promoter3	F: tctatcgataggtaccCCAAGTCTTCAAAATCCAGTGTGC R: agtaccggaatgccaaagcttCAAGTGACTCCGTTGCGTG	-1054/+86
Promoter4	F: tctatcgataggtaccCTGGAAACTGAACCACTGAGCT R: agtaccggaatgccaaagcttCAAGTGACTCCGTTGCGTG	-521/+86