



Figure S1. Isolation, identification and myogenic differentiation of caprine skeletal muscle satellite cells (SMSCs). The morphology of isolated SMSCs cultured in growth medium for 48 h (A) and 96 h (B). (C) Identification of isolated SMSCs using immunofluorescence staining of Pax7. (D) SMSCs were differentiated into myotubes on day 6 after differentiation initiation.

Table S1. List of the primers used in this study.

miRNA/gene	Forward (5' to 3')	Reverse (5' to 3')
miR-381	TATACAAGGGCAAGCTCTCTGT	mRQ 3' primer ¹
<i>U6</i>	GGAACGATACAGAGAAGATTAGC	TGGAACGCTTCACGAATTTGCG
<i>ACTB</i>	AGCCTTCCTTCCTGGGCATGGA	GGACAGCACCGTGTTGGCGTAA
<i>Myf5</i>	CACAACCAACCCTAACCA	TTGATCCGATCCACTATG
<i>TUBB</i>	AGCGTATCTCAGAGCAGTTC	AATCCTCTTCCTCTTCTGCG
<i>CCND1</i>	CGTCCATGCGGAAGATCGT	ACAGGAAGCGGTCCAGGTAGT
<i>CDKN1C</i>	CAGCCAGAGCATTGGCAATG	CTGTCCACCTCGGTCCACT
<i>MyoG</i>	CGTGGGCGTGTAAGGTGT	GGCGCTCTATGTACTGGATGG
<i>MyHC</i>	CCACATCTTCTCCATCTCTG	GGTTCCTCCTTCTTCTTCTC
<i>MEF2C</i>	ATCCTGATGCAGACGATTGAG	GGTGGAACAGCACACAATCTT
<i>PTEN-wild</i> ²	CCGCTCGAGTGAGATGAAAGAGACTGATTTCC	AAATATGCGGCCGCTGGAAAGGGCTCTTCAGTACA
<i>PTEN-mut</i> ³	GTTGAACATAATTCATGTATATATTTCTTTAAATGGTGA A	CATGAATTATGTTCAACAAAAACAGGATTGTATAGTCACT GA
<i>PTEN-CDS</i> ⁴	CGACGGGAAGACAAGTTCAT	AGGTTTCCTCTGGTCCTGGT
<i>JAG2-wild</i> ⁵	CCGCTCGAGGCCCGGGCGGCCGGCCCGCT	AAATATGCGGCCGCACCACAGGAGCCCCCGGCAGC
<i>JAG2-mut</i> ⁶	CTGTAGCGAACATAAATTATTCGGTAACTGTCAGGCG	ATTTATGTTGCTACAGAAACGTAGAAAATAAACATTTG
<i>JAG2-CDS</i> ⁷	CGCCAATGAGTGTGAAGGGA	TCGTTGGCGTTGATGTGGC

¹ A universal down-stream primer used for RT-qPCR analysis of miRNA.

^{2,5} Primers used to amplify 3'UTR sequence of *PTNE* and *JAG2* in wild-type vectors constructed, respectively.

^{3,6} Primers used to amplify complementarily mutant sequence to 3'UTR sequence of *PTNE* and *JAG2* in mutant-type vectors constructed, respectively.

^{4,7} Primers used to amplify the coding sequence of *PTNE* and *JAG2*, respectively.