

**Table S1.** The primers for RT-qPCR used in this study.

Gene name		Primer sequences
<i>β-actin</i>	F	TGTGCTGTCCCTGTATGCCTCT
	R	TAGATGGGCACAGTGTGGGTGA
<i>Ccna2</i>	F	TGGATGGCAGTTTTGAATCACC
	R	CCCTAAGGTACGTGTGAATGTC
<i>Ccnb1</i>	F	CAGGCAAGAGTGCCTCTGAA
	R	GTTTCCATCGGGCTTGAGAA
<i>Cdk1</i>	F	AAGTGTGGCCAGAAGTCGAG
	R	TCGTCCAGGTTCTTGACGTG
<i>Cdk2</i>	F	CGGAGTGGTGTACAAAGCCA
	R	TCGGATGGCAGTACTGGGTA
<i>Bcl2</i>	F	GAAGTGGGGGAGGATTGTGG
	R	GCATGCTGGGGCCATATAGT
<i>Bax</i>	F	ATGGACGGGTCCGGGGAGCA
	R	CCCAGTTGAAGTTGCCGTCA
<i>P53</i>	F	CTCTCCCCCGCAAAGAAAAA
	R	CGGAACATCTCGAAGCGTTTA
<i>Prmt7</i>	F	GGAGATTGCCAGGTCATCCT
	R	GAAGTCAGCCCCTGCAGTAA
<i>Akt1</i>	F	ATGAACGACGTAGCCATTGTG
	R	TTGTAGCCAATAAAGGTGCCAT
<i>Akt2</i>	F	ACGTGGTGAATACATCAAGACC
	R	CTACAGAGAAATTGTTCAAGGG
<i>Akt3</i>	F	ACCGCACACGTTTCTATGGT
	R	CGGCTCGGCCATAGTCATTA
<i>Gfra1</i>	F	AGGCTCAGAATTTGTTAATGG
	R	TAGGGCTCAAGGGAAGGAAG
<i>Kit</i>	F	GGCCTCACGAGTTCTATTTACG
	R	GGGGAGAGATTTCCTATCACAC
<i>Ccne1</i>	F	GCTTCGGGTCTGAGTTCCAA
	R	GTCTTGCAAAAACACGGCCA
<i>Hap1</i>	F	AGTTCATCACTGACCCTGCG
	R	GTTCTCTTCTGCCTGCCCCAT
<i>Lcor1</i>	F	GCCTCATGCACTGTGTAGGT
	R	CTCCTCTGTTGGCGTTGACT
<i>Atg9b</i>	F	ACCCTTGCTTCATGTACCCG
	R	TAATCCACGCAGCGAAGGAG
<i>Pak1</i>	F	ACTATGATTGGAGCCGGCAG
	R	TGGCATTCCCGTAAACTCCC
<i>Rtf1</i>	F	CTCGGATACGGAAGACAGCG
	R	TTGCTCCCAAATGTCCACTCA

Continued Table S1

Gene name		Primer sequences
<i>Rnf112</i>	F	AGATGTTCGTTACGTGGCT
	R	GTGCCCTTGCCCTGACTTAT
<i>Nanos1</i>	F	GCGCTCTACACCACACACAT
	R	TTTGGAGAGCGGGCAATACT
<i>Sarnp</i>	F	GGAGCTCCACAAGCTGAAG
	R	CCGATGCCATATCAACAGCC
<i>Tmem62</i>	F	TGCTGTTGGAGCACTACGG
	R	GATGTTGTTGGCTTCCGAGC
<i>Kcnh2</i>	F	TCACGTA CTGTGACCTGCAC
	R	TGTGTCCTTGTCTGTACGCC
<i>Tkfc</i>	F	TGCTGGATCGGATATGCACC
	R	ACAATCCCCATCACCAGCAG
<i>Clu1</i>	F	ATCGGCTTCCCACACAAGAG
	R	CCCATAGTGGGAGGGAGACA
<i>Mmp13</i>	F	CTTCTGGCACACGCTTTTCC
	R	TGGCTTTTGCCAGTGTAGGT
<i>Akr1c18</i>	F	TAGGCCAGGCCATTCTAAGC
	R	CTCCATGGCCTTCAGAGACAC
<i>Slpi</i>	F	AAGCCACAATGCCGTACTGA
	R	CACACTGGTTTGCGAATGGG
<i>Vnn1</i>	F	TACTTTCCTCGCGGCTGTTT
	R	TGCTTCGCTGCAGATACGAT
<i>Saa3</i>	F	CAGCCAAAGATGGGTCCAGT
	R	CTCCGGGCAGCATCATAGTT
<i>Lrsam1</i>	F	GATGCATCGGCAGATCAGGA
	R	TCCTGCTTCGTTTCGCTCTT
<i>Nqo1</i>	F	CATTGCAGTGGTTTGGGGTG
	R	TCTGGAAAGGACCGTTGTCTG
<i>Prg4</i>	F	CGGGCTGGATAATGCTATTCC
	R	CTAATGTCCCATTGCGCAGC
<i>Aldh1a1</i>	F	GGCCAAATCATCCCCTGGAA
	R	ATGTTTACCACGCCAGGAGG

**Table S2. Gene expression in RNA sequencing data.**

Gene Name	Gene ID	log2 Fold Change	Adjusted P
<i>Prmt7</i>	ENSMUSG00000060098	-0.762367163	1.49E-17
<i>Ccna2</i>	ENSMUSG00000027715	-0.398211242	3.34E-26
<i>Ccnb1</i>	ENSMUSG00000041431	-0.377923453	2.34E-24
<i>Cdk1</i>	ENSMUSG00000019942	-0.313085927	3.96E-17
<i>Cdk2</i>	ENSMUSG00000025358	-0.307024767	3.40E-10
<i>Akt3</i>	ENSMUSG00000019699	-0.144156259	0.043220681

Adjusted P < 0.05 is considered as significant difference.