

**S1 Table. PCR Primers**

Primers	Sequences (5' – 3')	Applications
Setdb1-F1 Setdb1-R1 Setdb1-F2	GTATCCGCTGCTTGGATGATATTG CATCTTGTTTTCGGTTCTCAGGGTC GGTCCGTGAAGCACAGAGCTCACG	<i>Setdb1</i> genotyping <i>WT</i> : 249 bp, <i>Setdb1</i> <sup>1lox</sup> : 478 bp <i>Setdb1</i> <sup>2lox</sup> : 403 bp
Cre-F Cre-R	GCAAGTTGAATAACCGGAAATGG GCAATTTCCGGCTATACGTAACAG	<i>Cre</i> genotyping <i>Cre</i> : 367bp
IAP-F IAP-R	AAGCAGCAATCACCCACTTTGG CAATCATTAGATGTGGCTGCCAAG	<i>IAP</i> qRT-PCR
Line1-F Line1-R	GAGACATAACAACAGATCCTGA AACTTTGGTACCTGGTATCTG	<i>Line1</i> qRT-PCR
MusD-F MusD-R	GTGGTATCTCAGGAGGAGTGCC GGGCAGCTCCTCTATCTGAGTG	<i>MusD</i> qRT-PCR
MTA-F MTA-R	ATGTCTTGGGGAGGACTGTGGAAG AGCCCAGCTAACCAGAACTACAG	<i>MTA</i> qRT-PCR
Setdb1-F Setdb1-R	CTTGGGAGGACATAGAAGATAG TTTTGTGCATCCAGAAAGAGG	<i>Setdb1</i> qRT-PCR
Cdc14b-F Cdc14b-R	CAGCCTATATTCCTTTCAGAG TACTGCATTGCCTTCTTTAC	<i>Cdc14b</i> qRT-PCR
Cdc25b-F Cdc25b-R	GAGTGATTTAAAGGATGACGAG ATGATGAGATCCTGTTCCCTC	<i>Cdc25b</i> qRT-PCR
Bub1b-F Bub1b-R	TTGGACAGAACAGAACTACC AATGTCCCAATTTGATCCAG	<i>Bub1b</i> qRT-PCR
Ppp2cb-F Ppp2cb-R	ACAGCTTTAGTAGATGGACAG CATAAGAGATCACACATTGGG	<i>Ppp2cb</i> qRT-PCR
Cdk1-F Cdk1-R	AGAAGGTACTTACGGTGTGGT GAGAGATTTCCCGAATTGCAGT	<i>Cdk1</i> qRT-PCR
Ccnb1-F Ccnb1-R	GCGTGTGCCTGTGACAGTTA CCTAGCGTTTTTGCTTCCCTT	<i>Ccnb1</i> qRT-PCR
Wee2-F Wee2-R	AGAGAATTACCAACACCTCC GATCATGTTCTTGAGTAGACC	<i>Wee2</i> qRT-PCR
Fzr1-F Fzr1-R	GAAGGGGACTCAGTGACTTCC CACGGCTACCAGATGACAACCT	<i>Fzr1</i> qRT-PCR
Cdc14b-R1-F Cdc14b-R1-R	GGTCGCCAGCACGCTTTCTGCCCCG AGGAGGGATGTTCCCGTGGAGCTTC	<i>Cdc14b</i> R1 region ChIP-qPCR
Cdc14b-R2-F Cdc14b-R2-R	AGCAGACACACAGAATTCACCTTG GTAAGTAGCAAAGGTCTTATAGC	<i>Cdc14b</i> R2 region ChIP-qPCR
C1243A-F C1243A-R	CAATCACAGTgcCAGCCCCAACCTGTTTGTC GTTGGGGCTGgcACTGTGATTGAGGTAGCG	Primers for <i>Setdb1</i> C1243A mutation