

Table S2. List of primer sequences used in PCR, qRT-PCR, MSP and bisulfite sequencing analysis.

qRT-PCR primers	Sequence (5' → 3')
HSA-MIR-31	Stem-loop: GGAGAGGAGGCAAGAUGCUGGCAUA GCUGUUGAACUGGGAACCGCUGCUAUGC CAACAUAUUGCCAUCUUUCC
MCM2-F	CAAGACTTTTGCCCGCTACCT
MCM2-R	TCTGCCACTAACTGCTTCAGTATGA
FIH1-F	CACATAGGCTTGCGTCTTAAAGC
FIH1-R	TTGAGGGTGTGTTGTGGCACATT
PCR primers for mapping	Sequence (5' → 3')
9p – 1Mb-F	CCTGCTGTGCACTAGATCTC
9p – 1Mb-R	AGGGCTCCCCTGATTCTG
9p + 1Mb-F	GTTATGCTGCATTCCAGATGG
9p + 1Mb-R	GTAATGCTTCCAGGTCTATGC
9p – 2Mb-F	CTGCACGCGTAACTCGTCAT
9p – 2Mb-R	GGAAACCATCATTCTCAGCAAACCT
9p + 2Mb-F	GAATGCTGCGGAGAAACATG
9p + 2Mb-R	CACTGTGCAGATAAAGGGAAC
9 + 5Mb-F	AAACGTAGCAGTCAGGAGGC
9 + 5Mb-R	TCAACAGCGGGAATAACACA
LOC402359-F	TGGGGATCCTTACAAAGTGC
LOC402359-R	CTTCGTGTAGTCCTGCTGCC
DMRTA1-F	AGTGTCTCAAGACCAAGAGATCCT
DMRTA1-R	TGAAAGGCTGTGTTTTCCAGTTC
MIR-31-F	CTTGAGGGTCCTATGGAGTCA
MIR-31-R	GCCAGTCCTTCGTGTATTGC
CDKN2A (p16)-F	GAATCCCGTAGCTTCCCTAC
CDKN2A (p16)-R	CGGGTCCCGATTAGAAGG
MSP primers	Sequence (5' → 3')
<i>miR-31</i> -Left M primer	TTGTGTATAATTTGGGGCGTC
<i>miR-31</i> Right M primer	CCAACCTTACCTACGAATCCGA
<i>miR-31</i> Left U primer	TTGTGTATAATTTGGGGTGTGTTGT
<i>miR-31</i> Right U primer	CTCCCAACTTACCTACAAATCCA

Bisulfite sequencing primers	Sequence (5' → 3')
<i>miR-31</i> -Left primer (fragment 1)	GGTTTTTTAGGAGGAGTTTGGT
<i>miR-31</i> -Right primer (fragment 1)	AAACTCTCCCAACTTACCTAC
<i>miR-31</i> -Left primer (fragment 2)	GTAGGTAAGTTGGGAGAGTTTT
<i>miR-31</i> -Right primer (fragment 2)	ACCTAAAATTTAAACAAAAAAA
