

Supplementary material Table S1. Primers			
qPCR of a single embryo or oocyte with hydrolysis probe/UPL probe detection system			
Gene Name	Forward (5' – 3')	Reverse (5' – 3')	UPL probe no.
<i>mDnmt3l</i>	AGTCAGAAGCAGGAGCAAGC	AGCGGGAGAAGGCAGTTC	no.79
<i>mIAP</i>	TGAAGGTTCAAGTGCCTAGTTC C	ACAGGCTTTTACCCAGAGCA	no.32
<i>mMuERVL</i>	GGTATGGGTCAATCCTCCAG	TCCTCTACTACCCATTCTGTATTTTC C	no.41
<i>mRplp0</i>	CTTCCCACTTACTGAAAAGGTC A	TCCTTTGCTTCAGCTTTGG	no.72
qPCR of mouse embryonic fibroblasts with SYBR Green detection system			
Gene Name	Forward (5' – 3')	Reverse (5' – 3')	
<i>mAdam19</i>	TCAGTGGCGGACTTCAGAAAG	GCAAAAAGGTGCTCGTTCTTC	
<i>mChd8</i>	ACTGGTACACCCCTTCGAC	AGGAGCTGAACCCCTTACTGG	
<i>mGapdh</i>	TGGCCTTCCGTGTTCTAC	GAGTTGCTGTTGAAGTCGCA	
<i>mGit1</i>	CCTGGGACGACACATCTCC	GATGGGGTGGACTTTATCTTGG	
<i>mGnl3l</i>	TGCTCCCCAGATTGTTTCATGG	TCATCTCCTCGACCCTTTTCTT	
<i>mLims1</i>	TCCACCTGCAATACCAAACCTC	GCACTTCTTACAGACTGGCTT	
<i>mPogz</i>	GCGGACACCGACCTGTTTAT	GGCTCACAGAAACGGAAGTAG	
<i>mSgk1</i>	CTGCTCGAAGCACCCCTTACC	TCCTGAGGATGGGACATTTCA	
<i>mSulf2</i>	TCTTGGTGCTTACGGATGACC	CCATGATACGCCTTGTCTTGTT	
Bisulfite sequencing			
Gene Name	Forward (5' – 3')	Reverse (5' – 3')	
<i>mAdam19</i>	TTTGGGTGTTTTTTATTTGAGTTAG	CTACCACTTACTTATAATCCATCCC	
<i>mGit1</i>	TAGGAGTATTGTGTTTGGGAATGT	ACAAAAACAATAAAAACCCATCCC	
<i>mLims1</i>	AGTTAAATTTGGAGAAAGTAGTTTG	AATCAATCTATACCTCAATCCCC	