

Supplementary Table 1: Primers used in this study

Gene	Genotyping	Expression	Imprinting
PEG1	TTTACCCGTCCTGTGCGATTTG TTCCAGTGGTTTTGGTAGACG	ATCTCCAATAACCACTACAG TCATAACCACCAGAAACAGAA	
PEG2	TGGTGATGATTTATGGATTTAAC ACAAGGTACGCGATTATGTCG	AGGACCAACATTATGGTCATACC GGAAGTGATAGAAGCGGTAGAG	AGGGAGAAACAATTGGCTTTAGA CTATCACTTCCCCGAATCTCCTA
	<i>PEG2::PEG2</i> cloning: CACCTCAACAACCTAAGAGATCACACCA AAAATGAGTAGAGGATGAAGCTGGAT		
PEG3	TCGAATGAAGAGGACAAACAAC TAAACAAACCGATTCTGACGG	CGAACGTTAGAGGTCATCCG GCAACAACCAAGAAAGACTGG	ATCAGAAATTTTCTCACCGGGA TGAAACTGGTGTCTTCTGCTGAAC
PEG4	TCTCCATGGAGAATGTTGGAG AAGGAATCGGCTTGTAAATTCG	CATGGAGAATGTTGGAGGAACG ATTGTCACACTGATAGATAGGAGC	ACACTGTGGAGCTTGATCTTCTG TGGTTCAGGGCAGTAGCAAAG
PEG5	AACCATTTACAACGGTCACTAGC TCAAACCCATCTGAATCTCG	GATATCTGAGAGCGGAGGAG AATCACAACCTGGACTGGAC	
PEG6	TGATTGTTGGTTATTCTCCC CTGTACCGAAATCCCTAGTG	GAGCCTGGTCATCAACTAAACC TAGAAGATCAGCACAGGAACG	AGGATTCTCCCTACAACCTTCTACA GATTATATGCATCATCTCGTCCG
PEG7	ACGGTAATGGCCAAATTTAG CTTCGCACTGATTTCTGGTC	TTTGTGAACCAGGGCAAGAG ATTCGAGACGAGTCTTTGAGTC	GCCTATCGAATATTCTGAT GCTTGATCTTCTTAGGTTTC
PEG8	AGAACCAAAACCGAACCAAC TCGGGTCTTGTTTGTTTCAC	TTACCGATAGGAATCTGAGAAGTC CATAGGCGGCCTAAGGAGTTTAG	
PEG9	GAAAGTCTATGTCCACGAGCG GAAGAAATTCAAATCCTCGGC (<i>peg9-1</i>) GAAAGTCTATGTCCACGAGCG ACGAGCTCAAGAAGGGAAATC (<i>peg9-2</i>)	GCTCAAGAAGGGAAATCTAAGTC AAACCTTGTCGGTCTTGTAGG	
ADM	ATTGACATTTCTTGGGGTTC ATATTTCTCGTTGGGGACCAG (<i>adm-2</i>)	TTGAAAGAGTTTGC GGATGTG AGGACCAACATTATGGTCATACC	
FXG1	TTCCCATAGCTAAAAGAGGC CTCCTCCACGACTACGAACAG	CTTCATAGCGGAGAGTCTTGG TTGACGTAGAGTAGAGTTAAGAGC	
HDG10	AAGCGTGAATCACAAGTTTG TGTCCCAAAAAGTTGAAAATC	GGTCGTTCTAAGGTAACATGGA TCCTCTGAAGAGTAGCGGTC	GGTCGTTCTAAGGTAACATGGA TCCTCTGAAGAGTAGCGGTC
PKR2	TTCTGATTTTTCAACCGATGG GGGGAGGAGTATCTGGTGAAG	ATGCTGATAGAACAAGTCACTGG CATACATCACCTGCTTGCCG	
SUVH7	CTCTTGATCACGAGCGTTACC TGCCATGTTTCGTAATCTCC (<i>suvh7-1</i>) CAGTTTCTGTCTCTGCTTCGG CCGCAAAATTCCTCATTCTC (<i>suvh7-2</i>) TTATTGGTTTGTGATTTGCTCG AACCATTGATTTACGAGTGCG (<i>suvh7-3</i>)	TGCTGGTCTAGTAGTACTGGTCCA CACCCGCATCACAAGAATAGTTG	GTGAAATGTGCTTAGTGGGGCTT CCTCTCAGACTCTAACGTCATTCC
VIM5	TATATGGAAGAAGGTAATGAAATA TCAAAAGAAATCATGGCAACC	GTTGTCAGGTCTACCAAGGA AAACGGCACATCTGTATTCCA	
YUC10	CCTGAATCTCGCCATCGCAATC CCAAGAGCTTTTCGTCAACTACC	GCGAGATTGAGGTTATCAATGG GTAACCAGTAGCAAAACACAATCG	
Actin11		AACTTTCAACACTCCTGCCATG CTGCAAGGTCCAACGCAGA	
AGL35		GGAACAATGAACCATCTTCC AAGAAGAACCATCTCAACC	
AGL36		GTGCTCTCATCTACAGTCCA CATCATCTTCTTGGTTCGGG	
PHE1		TCCAACCCGAAAATCCAT CGCATGTGCGGTCATCC	
AGL40		AATATACTACTGAGGTGCTG ACCAGTTTCCCTACTGTGTTCTC	
AGL62		CCTCCTCACCACACAACAA ACCTTGAACCCCTCGAGTT	
AGL90		CTTGTGCTCTCATCTATAGTCCA GTTTCTTGATCCATCATCTTCTCG	
AGL96		GTGAACCTTGCTGATCTCTCCCC GCTCTCTCTTTATAGGTCGCCAA	