

Supplementary Table 1. Expression of 24 imprinted genes relative to 2 control genes (control = *AU042671* and *Cry2*: these genes were chosen to represent the average gene expression of all nonimprinted genes in mouse) in 14.5-dpc female mouse conceptuses, based on quantitative real-time PCR results.

Gene	Expressed Allele	Tissue					
		Brain	Gonads	Heart	Liver	Troph-ectoderm	Umbilical Cord
<i>Asb4</i>	Maternal	-0.318	-0.480	0.870	0.298	-1.234	3.496
<i>Cd81</i>	Maternal	-3.527	-3.402	-2.415	-4.925	-4.003	-2.699
<i>Cdkn1c</i>	Maternal	2.435	5.095	6.402	2.892	5.477	4.947
<i>Dcn</i>	Maternal	-0.767	0.278	0.062	-1.027	4.608	4.262
<i>Gtl2</i>	Maternal	1.052	0.643	-0.830	2.356	2.022	4.893
<i>H19</i>	Maternal	-5.961	-1.902	-3.683	-3.818	-3.681	-0.035
<i>Igf2r</i>	Maternal	-0.060	3.430	5.098	0.644	2.720	3.692
<i>Mash2</i>	Maternal	-4.985	0.382	-4.172	-3.745	2.403	-2.832
<i>Osbp15</i>	Maternal	-0.060	1.530	0.355	-2.473	1.781	1.340
<i>Ppp1r9a</i>	Maternal	-4.547	-3.538	NA	-7.424	-4.722	-4.172
<i>Tssc3</i>	Maternal	-6.330	0.301	NA	-1.600	1.597	-5.685
<i>Zim1</i>	Maternal	-0.912	0.215	1.733	0.127	2.777	3.858
<i>Air</i>	Paternal	-2.412	-0.022	-0.058	-0.942	-0.470	1.338
<i>Dio3</i>	Paternal	-4.620	-3.925	-5.592	-8.987	-0.177	-4.437
<i>Igf2</i>	Paternal	2.642	3.982	5.877	3.953	4.687	7.282
<i>Impact</i>	Paternal	-4.623	0.000	NA	-6.707	-3.842	-1.886
<i>Nap115</i>	Paternal	-2.244	-3.272	NA	-4.142	-5.076	-5.128
<i>Ndn</i>	Paternal	3.202	1.746	2.026	-4.030	-0.512	3.322
<i>Nnat</i>	Paternal	3.483	-2.320	-4.379	-4.673	-3.712	-1.228
<i>Peg1</i>	Paternal	5.122	5.528	7.038	4.801	6.722	7.102
<i>Peg10</i>	Paternal	-0.059	0.450	-1.822	-0.471	6.525	0.593
<i>Peg3</i>	Paternal	2.922	8.140	5.772	2.642	5.922	7.177
<i>Slc38a4</i>	Paternal	-0.763	2.392	3.699	2.832	6.948	3.643
<i>Zac1</i>	Paternal	1.906	1.490	1.652	1.352	3.393	5.553

NA, not available

Supplementary table 2 Primer sequences used for 24 imprinted genes, two control genes and housekeeping gene, *Gapdh*, used in this study.

Primer Name	Sequence 5'---3'
Peg3 F	TGGAGACAACTGGCAAGAGG
Peg3 R	AGGGCTTGAGCGTTTCAGG
Mash2 F	CTCTCGGACCCTCTCTCAG
Mash2 R	CCAGTCAAAGGTGTGCTTCC
Peg10 F	GTCTCTACTGTGGCAATGG
Peg10 R	GGGACCTTATTCGTTCTGG
Asb4 F	GAGCTGGTTGCCCTTCTACG
Asb4 R	GCAGATGAGGTGGTGTTC
Cdkn1c F	CAGGACGAGAATCAAGAGC
Cdkn1c R	AGAAGTCGTTTCGCATTGG
Gtl2 F	GCAGCAGTGGACATGAACC
Gtl2 R	CTGGAGTGGCGAGGAAGG
Igf2r F	AGACACCAGAACCAGACACTCC
Igf2r F	GCTCTCCTCTCCCATCCTTACC
Dcn-F*	CATACTCAAATAAGGCTTCACCAA
Dcn-R*	AAAGTTGTCTGTAGTTGTGAAGTGA
Tssc3-F*	TGGAGAAGCGAAGCGACAGC
Tssc3-R*	GGTGGGTTGGAAGCAGGTAA
Impact-F*	GGACTGTGAAGATGATGGAG
Impact-R*	ACACGTCTTCCCTGCCTAAC
Zac1-F*	GATCCCATGCCTCCTTTCCA
Zac1-R*	CCTTGCCATCTGCTTTGACG
Air-F**	GTGGATTCAGGTTTCATG
Air-R**	GGCCAGATATAGAATGT
Peg1-F**	TCTCCAAAAGCTCCTCAAAG
Peg1-R**	ATGAATGGGGATGGACACAG
Nnat-F**	AAGCCCTACATCTCGGTGCAGAAG
Nnat-R**	TCCCTGTCTCCAGGAGCTTACAATC
Ndn-F**	AGGACTAAAAAGGTCCAGGGGCAC
Ndn-R**	CAGTCCATTCCACATGGATGCTTCC
Zim1-F	ATGCTGGAGAACTACGAGAACC
Zim1-R	GACTCCTGCCTCACCTTGC
Cd81 F	GTGATGATGTTTGTAGGCTTCC
Cd81 R	GCGATCTGGTCTTTGTTTACG
Dio3 F	AGTGAAGGCGAGGAGATGC
Dio3 R	TGGGCTTGCTTGAAGAAATCC
Ppp1r9a F	ACCAGGACAAGTGAGTGAGG

Ppp1r9a_R	TCATCGTCGTCAGCATCATAC
H19_F	GCGAGGATGACAGGTGTGG
H19_R	GGTGGTTGAGCGGACTAGC
Nap115_F	GATGAAGATGACGAGGAAGAGG
Nap115_R	TTGCTGTGCTCACTTCTTGG
Osbp15-F	GCACAGAAGGAGAACTATCG
Osbp15-R	TTCGTCCAGCTCTTCAGG
Slc38a4-F	CATGGGCAGTGGGATCTTAGG
Slc38a4-R	CCTCCTTCCTTGGCTGTCTTC
<i>Gaph-F</i>	GTCGTGGAGTCTACTGGTGTC
<i>Gapdh-R</i>	GAGCCCTCCACAATGCCAAA
AU042671_F	AGGAAGGTTGCTGAGTATGG
AU042671_R	AAGGAGAAGGTGACTGTATCG
Cry2_F	AGCACTTGGAACGGAAGG
Cry2_R	CAGGCGGTAGTAGAAGAGG

*: Ogawa et al., 2003

** : Ogawa et al., 2006