

Table 1. Imprinted gene sample

LOCUS	EXPRESSION	REFERENCE	ACCESSION NUMBER	CO-ORDINATES
1 TP73	maternal	(1)	NT_004321.3	1-100000
2 CDKN1C	maternal	(2)	NT_009368.3	653994-753994
3 NESP55	maternal	(3)	NT_011430.3	565651-665651
4 SLC22A1L	maternal	(4, 5)	NT_009368.3	670546-770546
5 H19	maternal	(6)	NT_009308.3	79145-179145
6 TSSC3	maternal	(7, 8)	NT_009368.3	697571-797571
7 GNAS1	maternal	(9)	NT_011430.3	513733-613733
8 UBE3A	maternal	(10, 11)	NT_010364.3	211076-311076
9 KCNQ1	maternal	(12)	NT_009368.3	297152-397152
10 ATP10C	maternal	(13, 14)	AC016266.5	whole BAC
11 XLalpha5	paternal	(3)	NT_011430.3	550433-650433
12 GNASAS	paternal	(15)	NT_011430.3	550000-650000
13 INS	paternal	(16)	NT_009308.3	1-100000
14 IGF2	paternal	(17-19)	NT_009308.3	1-100000
15 DLK1	paternal	(20)	NT_010028.3	1112130-1212130
16 SNURF-SNRPN	paternal	(21, 22)	AC009696.5	whole BAC
17 KCNQ1AS	paternal	(23, 24)	NT_009368.3	466002-566002
18 PEG3	paternal	(25)	NT_025138.3	316262-416262
19 MEST	paternal	(25)	NT_007691.3	267953-367953
20 snoRNA	paternal	(26)	AF250841.1	Whole sequence
21 IPW	paternal	(27)	AF250841.1	Whole sequence
22 MAGEL2	paternal	(28)	NT_010346.3	1-100000
23 ARHI	paternal	(29)	NT_021953.3	233546-333546
24 PLAGL1	paternal	(30)	NT_007174.3	131882-231882
25 COPG2	paternal	(31)	AC009274.9	Whole BAC
26 PEG10	paternal	(32)	AC069292.11	Whole BAC
27 HYMAI	paternal	(33)	NT_007174.3	88022-188022
28 ZNF215	paternal	(34)	NT_009325.3	482859-582859
29 NDN	paternal	(35)	NT_010346.3	21515-121515

Bidirectional imprinting

30 WT1	paternal and maternal	Maternally expressed placenta (polymorphic), monoallelic brain (36); paternal expression (low level) in fibroblasts/lymphocytes (37)
31 GRB10	paternal and maternal	Maternally expressed (38); paternally and maternally expressed (more extensive analysis) (39).

excluded

UBE3AAS	maternal	Excluded as promoter not known (40).
MKRN3/MKRN3AS	paternal	No sequence data (41).
IGF2R	maternal?	Polymorphic imprinting (42); nonimprinted (43).
IGF2AS	paternal?	Conflicting reports -- not imprinted (44); imprinted (45).
HTR2A	maternal?	Fibroblasts with deletions: no nontumour, nonrearranged samples (46).
ASCL2	maternal?	Described as imprinted, but hydatidiform mole studies only (47); nonimprinted (48).
MEG3	maternal?	Gene described but no imprinting studies (49).

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Table 1. Imprinted gene sample.

The 31 imprinted genes from the human genome used in this study are listed, with references to their original imprinting studies, their genomic sequence accession numbers, and coordinates within these genomic sequences. Loci excluded are also listed with reasons for their exclusion briefly described. References are as listed.