

Table S1: Customized panel of imprinted and imprinted related genes analyzed by NCounter Nanostring approach

GENE	Accession	Position	Target Sequence	Tot Isoforms	Isoforms Hit By Probe
<i>CDKN1C</i>	NM_000076.2	1606-1705	TGTCCAGGCGTGGACCGCTCTGCCACGCACTAGCTCGGTTATTGGTTATGCC AAAGGCACTCTCCATCTCCCACATCTGGTTATTGACAAGTGTAACTTT	5	5
<i>DIRAS3</i>	NM_004675.2	951-1050	CTGAGAAGCTGCTTGACAAGTGCATAATCATGTGAGCCCTGGGCCTTAAGA GCCAGCTCTTCTATCCTGTAGCGTGTAGAAAACGTGGACTCATTTCAC	1	1
<i>DLK1</i>	NM_003836.4	1329-1428	AGATTCTTGGAGTTCCGCAGAGCTTACTATACGCGGTCTGTCCTAATCTTTG TGGTGTTTCGCTATCTCTTGTGTCAAATCTGGTGAACGCTACGCTTACA	2	2
<i>FAM50B</i>	NM_012135.1	1273-1372	TTCTGAGTATTTTAGTGTGGCCACCTGGATTTGCTGCATTGCTCTGCTGAGC TGTATTGAAACCATGACTGGGCCCCACTGTCAGACAGAAATTAGAATAG	3	2
<i>GNAS</i>	NM_080425.1	1911-2010	CGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGA CTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAG	29	24
<i>GNAS-AS1</i>	NR_002785.2	1027-1126	ACGTCCGCTGGGAACTGGCTGCTCTGCAGGTTTCTGTATCACATTTTCTGCA CATGTCCATTAGAATTGGAGATGGGGCGTATCTAGTGTTGAATAAAGG	1	1
<i>H19</i>	NR_002196.1	1593-1692	GGCCTTTGAATCCGGACACAAAACCCTCTAGCTTGGAATGAATATGCTGC ACTTTACAACCACTGCACTACCTGACTCAGGAATCGGCTCTGGAAGGTG	3	3
<i>IGF1R</i>	NM_000875.4	4581-4680	TCTCCTGAGTCCCTCAAGGATGGAGTCTTCACCACTTACTCGGACGTCTGGT CCTTCGGGGTCGTCCTCTGGGAGATCGCCACACTGGCCGAGCAGCCCT	9	9
<i>IGF2</i>	NM_001127598.1	2418-2517	ACACACACTCATGCGCAGCACATACATGAACACAGCTCACAGCACACAAA CACGCAGCACACACGTTGCACACGCAAGCACCCACCTGCACACACACATG	7	3
<i>IGF2R</i>	NM_000876.1	2606-2705	TGCCGGGCTGCAACCGATATGCATCGGCTTGCCAGATGAAGTATGAAAAAG ATCAGGGCTCCTTCACTGAAGTGGTTTCCATCAGTAACTTGGGAATGGC	1	1
<i>INSR</i>	NM_000208.2	526-625	CACCCGGGGTTCTGTCCGCATCGAGAAGAACAATGAGCTCTGTTACTTGGC CACTATCGACTGGTCCCGTATCCTGGATTCCGTGGAGGATAATTACATC	4	4

<i>KCNQ1</i>	NM_181798.1	836-935	CAGACGTGGGTCGGGAAGACCATCGCCTCCTGCTTCTCTGTCTTTGCCATCT CCTTCTTTGCGCTCCCAGCGGGGATTCTTGGCTCGGGGTTTGCCCTGA	2	2
<i>KCNQ1OT1</i>	NR_002728.2	31876-31975	GCCAGACATCAAATTGAGTGAGGGACATTGGACACAAAGGTGTATGAGTT GCATCATTCCCACCGCATAAAGTTCAAATGTGGGCAAAGCTGGTCCTTGC	1	1
<i>MEG3</i>	NR_002766.2	692-791	ATCTTCCTATCCTTTTCTGGGGGAATGGGGTCGATGAGAGCAACCTCCTAG GGTTGTTGTGAGAATTAAATGAGATAAAAGAGGCCTCAGGCAGGATCTG	15	15
<i>MEST</i>	NM_177525.1	646-745	CTCTGTCTGTCAAATGGAGGTATCTTTCCTGAGACTCACCGTCCACTCCTTC TCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTCACCCATCCTCACAC	10	10
<i>PEG10</i>	NM_001040152.1	5001-5100	TTTGCCACCACTGCAAGCAAAAGTCTGGAGAAGTTCACCAACGACAAGAAC GATTAGGGAAAATATGCTGCTGTGGGTAAACAACCTCAGAAAGTCCCTGA	6	6
<i>PLAGL1</i>	NM_006718.3	1873-1972	TCAGTTTGTGTTGAGGACTTGCCTCTGCAAGAGCCTCAGTCACCTCAAAAGCT CAACCCAGGTTTTGATCTGGCTAAGGGAAATGCTGGTAAAGTAAACCT	27	27