

S5 Table. List of qRT-PCR primers used for Primitive endoderm, Mesendoderm, hepatocytes, pancreatic endocrine cells (Exon-exon spanning primers or CDS-3'UTR or 5'UTR-CDS).

Genes	Forward primer sequence	Reverse primer sequence
<i>PPIG (HKG)*</i>	CTTGTCATGGCCAACAGAGG	GCCCATCTAAATGAGGAGTTGGT
<i>SOX7</i>	GCCTGTGCAACAAGAGTGAA	GTACCCTGGGTCTTTGGTCA
<i>GATA6</i>	CCCTACTCGCCCTACGTG	GGACAGGTCCTCCAGCAG
<i>GSC</i>	TCTCAACCAGCTGCACTGTC	CCAGACCTCCACTTTCTCCTC
<i>EOMES</i>	AACAACACCCAGATGATAGTC	TCATAGTTGTCTCTGAAGCCT
<i>FGF8</i>	GAGACGGGCCTCTACATCTG	GTGTAGTTGTTCTCCAGCAC
<i>CER1</i>	GGACAGTGCCCTTCAGCCAGACTA	TGCCTGCCAAGTTCACCACGA
<i>CXCR4</i>	CACCGCATCTGGAGAACCA	GCCCATTTCTCGGTGTAGTT
<i>CKIT</i>	TGGGCCACCGTTTGGAAAGC	GGGTGTGGGGATGGATTGTCTTT
<i>E-CADHERIN</i>	CGAACTATATTCTTCTGTGAGAGG	GATAGATTCTTGGGTTGGGTC
<i>EPCAM</i>	CTGGCCGTAACTGCTTTGT	AGCCCATCATTGTTCTGGAG
<i>OCCULUDIN</i>	TCTGCAGGCACACAGGACGTG	AACCACTTCAGGAACCGGCGT
<i>ALB</i>	ATGCTGAGGCAAAGGATGTC	AGCAGCAGCACGACAGAGTA
<i>AFP</i>	TGAGCACTGTTGCAGAGGAG	GTGGTCAGTTTGCAGCATT
<i>AAT</i>	AGGGCCTGAAGCTAGTGGAT	TCCTCGGTGTCCTTGACTTC
<i>MRP2</i>	CGATATACCAATCCAAGCCTC	GAATTGTCACCCTGTAAGAGTG
<i>CYP3A4</i>	TTCCTCCCTGAAAGATTGAGC	GTTGAAGAAGTCCTCCTAAGCT
<i>TTR</i>	AAACCAGTGAGTCTGGAGAG	CTGTGAATACCACCTCTGCA
<i>G6PC</i>	GTGTCCGTGATCGCAGACC	GACGAGGTTGAGCCAGTCTC
<i>PROX1</i>	TCACCTTATTCGGGAAGTGC	GGAGCTGGGATAACGGGTA
<i>PTF1A</i>	ACGACTTCTTCACCGACCAG	TGGTGGCTAAGGAACTCCAC
<i>PDX1</i>	TCCACCTTGGGACCTGTTTA	GTGTGTTAGGGAGCCTTCCA
<i>NGN3</i>	TCTCTATTCTTTGCGCCGG	CTTGGACAGTGGGCGCAC
<i>NKX6.1</i>	CTTCCCGTCTTTGTCCAACAA	CCATCTTCTGGCCCGGAGTGA
<i>NEUROD1</i>	TAAGACGCAGAAGCTGTCCA	CTGCTCAGGCAGAAAAGTCC
<i>NKX2.2</i>	CAACACAAAGACGGGGTTTT	GTTGTCGCTGCTGTCGTAGA
<i>ARX</i>	ACAGCGTGTGCCTCTCTGC	TCGGGCTCGGTCAAGTCC
<i>PAX4</i>	CAACCGAGTCCTGCGGGCAT	GCCAGCTTCCACGGGCCAC
<i>PAX6</i>	CCCAAGAGCAAATTGAGGCC	CTCTTCTCCATTGAGCCCTCGA
<i>MAFA</i>	TCATCCGGCTCAAGCAGAAG	TCTCGCTCTCCAGAATGTGC
<i>MAFB</i>	GCCTGCGCTAATTGTAGGAG	CAAAAGCAGGGAAAGAAACG
<i>INS</i>	ATCAAGCACATCACTGTCCT	TGTAGAAGAAGCCTCGTTCC
<i>GCG</i>	GTTCCCTTCAAGACACAGAG	GGCAATGTTATTCCTGTTCC
<i>SST</i>	GAGGCTTGAGCTGCAGAGAT	TCGCTGAAGACTTGAGGAT
<i>AMYLASE</i>	CAGGAGGTAATTGATCTGGGT	TTTGTACAGCCTAGCATCCC
<i>HNF1B</i>	TCACAGATACCAGCAGCATCAGT	GGGCATCCCAGGCTTGTA
<i>KRT19</i>	CGACTACAGCCACTACTACAC	GGTGGCACCAAGAATCTTGTC
<i>LGR5</i>	AAGAACACTGACTCTGAATGG	TAGCACTGGAGATTAGGTAAGT
<i>NKX2.5</i>	ACCTCAACAGCTCCCTGACTCT	ATAATCGCCGCCACAACTCTCC

* The HKG denotes the house keeping gene.