

SUPPLEMENTAL METHODS

RNA expression analysis - RNA was isolated from the pancreas using the RNeasy isolation system (QIAGEN, Valencia, CA) and reverse transcribed using the iScript™ cDNA synthesis kit (Bio-Rad, Hercules, CA). cDNA reactions were amplified with QPCR SYBR Green Mix (ABgene) and the following gene-specific primers:

ErbB1 (5'-gactccgtctgtctcggatta-3', 5'-cagttgggtgagcctgttact-3')

ErbB2 (5'-ctagacaaccgagaccctttg-3', 5'-acaaaaccatgtcctgtagc-3')

ErbB3 (5'-gaggagtctgtgttgccagtt-3', 5'-attgctagagtccacggtctg-3')

ErbB4 (5'-gcattattcgtgggacaaaac-3', 5'-tccgaacaatatcttgccagt-3')

EGF (5'-tagcatactcagcgtcacagc-3', 5'-cgagagatgctctttccttgt-3')

TGF (5'-tagcgctgggtatcctgtag-3', 5'-tggaagcagtactgagtgtg-3')

HB-EGF (5'-gatccacaaaccagctgctac-3', 5'-tcttctccctaaccctttc-3')

Target sequences were amplified using 95°C/30 sec, 59°C/60 sec, and 72°C/30 sec conditions.