

SUPPLEMENTARY TABLE S1. PRIMERS LISTED FOR REAL-TIME QUANTITATIVE REAL-TIME POLYMERASE CHAIN REACTION

Gene	Forward primer	Reverse primer	T _m (For, Rev)	Size	
ARE pathway	HPRT	TTCCCTGGTTAAGCAGTACAGCCC	TGGCCTGTATCCAACACTTCGAGA	60.6, 59.6	89
	CAMK-II	TGAGGCCAACACAAAGCTGTACCA	TGGTCAGCATCTGGTTGATGAGGT	60.0, 60.0	116
	CREB1	ACAGCAGATTCTAGTCCCAGCAA	TCCTCAGCAGGCTGTAGGAAGT	60.4, 59.6	153
	SIRT1	CCTTTCAGAACCCACCAAGAGGAA	AATTCAGGAATCCACAGGAGACA	59.6, 59.3	138
	PGC1a	AGCACTCAGAACCAATGCAGCAAAC	TTGGTGTGAGGAGGTCATCGTT	60.0, 60.1	183
	Nrf1	AGTGAITGCCGCACAGAAGAGCAA	GTGGCCTGAGTTTGTTTGCTGA	60.4, 59.9	143
	Nrf2	AGTTTGCCACATTCACAAACAAAG	TGAAGACTGAACITTCAGCGTGGC	60.0, 59.4	138
	FoxO1	AAGAGCGTGCCCTACTTCAAGGAT	GTGAAGGACAGATTGTGGCGAAT	59.9, 59.2	87
	HNF4a	TTCCGCATGGCCAAAGATTGACAAC	TTGTGCCCCATGTGTTCTTGCAAC	60.1, 60.1	122
	PPARγ	ACATAAAGTCCITCCCCTGACCA	AAATTCCGATGGCCACCTCITTGC	59.9, 60.0	180
	GR pathway	GCAGTGAATGGGCAAAAGCGGATA	CCAGGGCAAAATGCCATGAGAAACA	59.9, 60.0	106
	SMAD4	TGTCACAGGACAGAAAGCGATTGA	ATCTTATGAACAGGCTGCCAGGT	59.9, 60.2	180
	Cebpb	ACAAGCTGAGCGACGAGTACAAGA	GACAGCTGCTCCACCTTCTCTG	59.7, 59.5	160
Nr2H1	TTCAGGAACAGGTGGAGAAAGCTCA	TTTCTCTGCAGGCTTTCGATGTG	59.6, 59.4	137	
Nr2f2	TCCAAGCAAGTGGAGAAGCTCA	ACTTCTCCAAAGCACACTGGGACT	59.8, 60.1	159	
PXR	TGATGGACGCTCAGATGCAAACTT	AGAAACTCTGGAAGCTCACAGCCA	60.5, 60.0	103	
RXRα	TGACATGCAGATGGACAAGACGGA	TGCAGTACGCTTCTAGTGACCGAT	60.0, 60.0	140	
Wnt pathway	Akt1	AGCCGCTACTATGCCATGAAGAT	TGGAATGAGTACTTGAGGGCCGTA	59.9, 59.2	138
	Gsk3b	TTGGACCACTGATACACAGCTCA	TCCACCAACTGATCCACCCACT	60.0, 60.1	119
	Ctnnb1	TGGACTCTGCACAACCTTCTCA	AGTGTCTGATGGCTAGAACAAGT	60.0, 59.8	132
	Tcf7l2	AGAGGTGCAGCCATCAACCAGAT	CTGCATGTGAAGCTGTGTTCCIT	60.0, 59.5	112
	Tcf7	TGAGAGCCAAAGTCAATGCTGAGT	TTCCTGGGGCCAGTTCATAGTA	60.1, 59.9	128
	Cdx1	AGGAGTTTCACTACAGCCGGTACA	CTGCTGCTGCTGTTCTTCTT	59.3, 59.9	152
	Nfatc4	ATGGTGGCTACAGCCAGCTATGAA	TCACCCITCCGTAGCTCAATGCT	60.1, 59.4	149
	CREBBP	ATGCCCAATGTTTCCAACGACCTG	GCCCAGCATGCAAGATGAATCAAA	59.9, 60.0	94
	Ppp3ca	TGTGTACAGGTGGTTTGCTCCTCA	ACAGCCTCTGACTGTGTGTGAGT	60.1, 59.9	180
	Nkx2.5	AAATGCTCTCTGCTTTCCTCA	TTTGTCCAGCTCCACTGCCTTCT	58.5, 60.5	132
GSIS related genes	Ei2	TTCCITTGACCCCTAGCCGGACATA	AACACTGGTGTCTCTCCCAAAGGT	59.3, 59.9	151
	GATA4	AGGTGAGCCTGTATGTAATGCCIT	AGGACCTGCTGGCGTCTTAGATTT	59.7, 59.9	143
	GK	AGGGAACAACAATCGTGGGACTTCT	GTGTCAITTCACCAATGGCCACACA	59.9, 59.9	87
	GLUT2	AAAGGAAGAGGCATCGACTGAGCA	ACACCAATGTTGTCATACACAGGC	60.1, 59.9	198
	PDX1	AGCTCCCTTCCCCTGGATGAAAT	TAGGCAGTACGGGTCTCTTGTIT	60.3, 59.4	112
	UCP2	AGCCTAACAGACCAATGCACGAGA	ATAGGTCACCAGCTCAGCACAGTT	60.0, 59.9	109
	INS1	TAAAGCTGGTGGGCATCCAGTAA	GGGACCAACAAGATGCTGTTGAC	58.9, 58.3	174

Akt1, protein kinase B; ARE, antioxidant response element; Caln, protein phosphatase 3, catalytic subunit, alpha isoform (Ppp3ca); CaMK-II, calcium/calmodulin-dependent protein kinase II; Cdx1, caudal type homeobox 1; C/EBPβ, CCAAT/enhancer binding protein (C/EBP), beta; CREBBP, CREB-binding protein (CBP); CREB1, cAMP responsive element binding protein 1; Ctnnb1, catenin (cadherin associated protein), beta 1; Ei2, transcription factor E2-alpha; FoxO1, forkhead box O1; GATA4, GATA binding protein 4; GK, glucokinase; GLUT2, glucose transporter type 2; GR, glucocorticoid receptor; GSIS, glucose-stimulated insulin secretion; GSK-3β, glycogen synthase kinase 3 beta; HNF4a, hepatocyte nuclear factor 4, alpha; HPR1, hypoxanthine guanine phosphoribosyl transferase; INS1, preproinsulin 1; NFAT, nuclear factor of activated T-cells; Nfatc4, nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4; Nkx2.5, NK2 transcription factor related, locus 5; Nrf1, nuclear respiratory factor 1; Nrf2, nuclear factor (erythroid-derived 2)-like 2; Nrf2f1, nuclear receptor subfamily 2, group F, member 1; Nrf2f2, nuclear receptor subfamily 2, group F, member 2; PDX1, pancreatic and duodenal homeobox 1; PGC-1α, peroxisome proliferator-activated receptor gamma coactivator 1 alpha; PPARγ, peroxisome proliferator activated receptor gamma; PXR, pregnane X receptor; RXR, retinoid X receptor; SIRT1, NAD-dependent deacetylase sirtuin-1; SMAD4, SMAD family member 4; Tcf7, transcription factor 7, T cell specific; Tcf7l2, transcription factor 7 like 2, T cell specific, HMG box; UCP2, uncoupling protein 2; Wnt, wingless-type MMTV integration site.