

Supplementary Table 2

Antibodies:	Sources:	Catalog Number:
anti-Cpe	Millipore Sigma	#AB5314
anti-Pc1/3	Abcam	#ab191452
anti-Pc2	Abcam	#ab135808
anti-ProSAAS	Millipore Sigma	#ABN2268M
anti-Cpd	Bethyl Laboratories	#A305-514A
anti-Insulin	Cell Signaling Technology	#L6B10
anti-Insulin	Dako	#IR002
anti-Proinsulin (CCI-17)	Abnova	#MAB2868
anti-amidated IAPP	MedImmune	#F025
anti-non-amidated IAPP	MedImmune	#F084
anti-IAPP	Peninsula Laboratories	#T-4145
anti-Actin	Abcam	#ab8226
Anti-Gapdh	Novus Biologicals	#NB300-221
Anti-phospho eIF2alpha	Cell Signaling Technology	#3597
Anti-Atf4	Proteintech	#10835-1-AP
Anti-spliced Xbp1	Cell Signaling Technology	#12782
Anti-Bip	Invitrogen	#PA1-014A
Anti-Chop	Santa Cruz Biotechnology	#sc-56107
IRDye-conjugated secondary antibodies	LI-COR	#926-68070 and #926-32211
Goat anti Rabbit IgG (H+L) Secondary Antibody, Oregon Green 488	Invitrogen	#O11038
Biotin-SP-AffiniPure Donkey Anti-Mouse IgG (H+L)	Cedarlane Labs	#715-065-150
v500 Streptavidin	BD	#561419

Alexa 488 goat anti-guinea pig	Thermo Fisher Scientific	#A11073
Alexa 594 goat anti-mouse	Thermo Fisher Scientific	#A32742
Alexa 647 goat anti-rabbit	Thermo Fisher Scientific	#A32733
Dyes and Probes:	Sources:	Catalog Number:
IRDye-conjugate Streptavidin	LI-COR	#926-32230
CellRox	Thermo Fisher Scientific	#C10422
MitoSox	Thermo Fisher Scientific	#M36008
TMRM	Thermo Fisher Scientific	#T668
MTG	New England Biolabs	#9074S
TUNEL staining reagents	Roche	#11684795910
Click EdU reagents	Invitrogen	#C10337
2-NBDG	Thermo Fisher Scientific	#N13195
Chemicals and Consumables:	Sources:	Catalog Number:
Streptozotocin	Sigma-Aldrich	#S0130-100MG
EdU	Toronto Research Chemicals	#E932175
Biotin-alkyne	Invitrogen	#C33372
L-Azidohomoalanine	Invitrogen	#C10102
High Capacity NeutrAvidin Agarose	Thermo Scientific	#209202
μ-Slide 8 Well	Ibidi	#800826
Lab-Tek™ II Chamber Slide	Thermo Scientific	#154534PK
Commercial Assays:	Sources:	Catalog Number:
Rodent insulin chemiluminescence ELISA	Alpco	#80-INSMR
Rodent proinsulin ELISA	Mercodia	#10-1232-01
Lactate ELISA	Abcam	#ab65330
RNeasy Plus Micro kit	Qiagen	#74034

QIAamp DNA Micro kit	Qiagen	#56304
PureLink RNA Micro kit	Invitrogen	#12183016
SuperScript VILO kit	Invitrogen	#11754050
Fast SYBR Green Master Mix	Applied Biosystems	#4385612
Rodent Diets:	Sources:	Catalog Number:
Chow	Teklad	#2918
Low fat diet (10% fat)	Research Diets	#D12450H
High fat diet (45% fat)	Research Diets	#D12451
High fat diet (60% fat)	Research Diets	#D12492
Primers:	Forward Sequence	Reverse Sequence
<i>Rplp</i>	TCGGGTCCTAGACCAGTGTTTC	AGATTCGGGATATGCTGTTGGC
<i>Cpe</i>	CAGCAAGAGGACGGCATCTC	GTCCAACCGCCTCATTACCAT
<i>Pcsk1</i>	CTTTCGCCTTCTTTTGCGTTT	TCCGCCGCCCATTCATTAAC
<i>Pcsk2</i>	GTGTGATGGTTTTTGCGTCTG	GGGAGCTTTCGGACTCCAA
<i>proSAAS</i>	CGACGAGACTCCTGACGTG	GCACCTCGGGACCCAAATC
<i>Ins2</i>	GCTTCTTCTACACACCCATGTC	AGCACTGATCTACAATGCCAC
<i>Iapp</i>	CGGACCACTGAAAGGGATCTT	CGTGTTGCACTTCCGTTTGT
<i>7b2</i>	CCTCAAGGCTGGTCTCTGCTA	GGCCCAACAAGATTCATGGC
<i>Nd1</i>	CTAGCAGAAACAAACCGGGC	CCGGCTGCGTATTCTACGTT
<i>16s</i>	CCGCAAGGGAAAGATGAAAGAC	TCGTTTGGTTTCGGGGTTTC
<i>Aldh1a3</i>	TTCTTGGGCATGTGCTTAGA	AGCCTGAAGCCCAAATACCAA
<i>Pgc1a</i>	TATGGAGTGACATAGAGTGTGCT	CCACTTCAATCCACCCAGAAAG
<i>MafA</i>	AGGAGGAGGTCATCCGACTG	CTTCTCGCTCTCCGAAATGTG
<i>Pfkp</i>	CTTGGGACAAAACGCACCCT	GGAGACAGTAGCAGGAACCAT
<i>Xbp1s</i>	GGTCTGCTGAGTCCGCAGCAGG	AGGCTTGGTGTATACATGG