

Supplemental Table 2. Primer and probe sequences for metabolic genes. Taqman chemistry was used and all probes were 5` FAM and 3` BlackHole quencher modified. Some genes were purchased from Applied Biosystems. The amplicon formula weight (F.W.) is given and was used in the calculation for generating the standard regression curves.

Gene Name	Reference Seq.	Forward	Probe	Reverse	F.W. (g/mol)
ACC, Acetyl-CoA-Carboxylase alpha	XM_109883.	TGAGGTATCACCATCAGCCT	CATGCCGGGCCATTGGTATTGG	CCAGCCGGACAAGGTAAGC	20969
ACLY, ATP Citrate Lyase	NM_134037.	GATGAAGTGGCACCTGCAAAG	AGCCAGCTATGCCCAAGGAAAGAGTG	GGTATGTCGGCTGAAGAGGGT	25515
ALDOC, aldolase C, fructose-bisphosphate	NM_005165.2	CTCTAGCTGGGACCGACGG	AAACCACCACTCAAGGGCTGGATGG	CTGAGCACAGCGTTCCAAGA	21040
CS1, citrate synthase	NM_026444.2	TCAAGCAGCAACATGGGAAG	CAGTGGTGGGCCAGATCACTGTGG	CTCTCATGCCACCGTACATCA	21553
FASN, Fatty Acid Synthase	NM_007988.	AGTGGAGGCAGGACCCAAA	TGAGCCTTTTCTACCGTGTGGCATTG	AATGGAGAAACGACCCAGCGT	25525
GLUT-1, SLC2a1, Facilitated Glucose Transporter 1	NP_035530	GGTGTGCAGCAGCCTGTGT	CGCCACCATCGGCTCCGGTAT	CACAGTGAAGCCGTGTTGA	22771
G6PD2, glucose-6-phosphate dehydrogenase 2	NM_019468.1	CGCCTATCCTGGATGCTT	TGTGGTGCCAGATGCACTTTGTCC	CAGCCTTCCTGAGTTCATCA	21899
GPD1, glycerol-3-phosphate dehydrogenase 1	NM_010271.2	AACACAAGGCGCTTGTGGAC	AGTTCCTTGTCTCACTGCGGTGTACA	CGGATGAATTCGCCACT	27208
GPI1, glucose phosphate isomerase 1	NM_008155.1	AGCTCCAGGCTGCCGG	CCCAGAAGACTTGGAGAACTCTTGCCA	GGCCGGTTTCTTCAAAGA	23434
Insig1, Insulin induced gene 1	NM_153526.	TCTATATCCGTTCTTGGCTCCC	TTCTCAGGAGGTGTACAGTGGGAAACA	CACCCATAGTAAGTGTCTCCT	25948
PCX, Pyruvate Carboxylase	NM_008797.1	TGCCATCCGAGTGTTCGT	CGTGCACAGAGCTGGGTATCCGC	GCTCCGAGTAGACAGCCACTG	20056
SLC25a1, Citrate Transporter (mitochondrial)	AK005070.	CTTGCTCTACGGCTCCATCC	CCCAAACCTGACAGCCGCTTG	GGTTGCTGAGGAACCTGAAACA	23249
SREBP1a, Sterol Regulatory Element Binding Protein 1A	AC096624.	AGGCGGCTCTGGAACAGA	CCAGTTCGCACATCTCGCCAGT	TGTCGTTCAAACCGCTGTG	20809
SREBP1c, Sterol Regulatory Element Binding Protein 1C	AC096624.	CGGAGCCATGGAATTGCAC	TAGACATGCTCCAGCTCATCAACAACCAA	GGCCGGGGAAGTCACTGT	23665
SCD2, stearoyl-CoA dehydrogenase 2	NM_009128.1	GAACGTGACCCAGCATCC	AAGATGCCGGCCACATACTGCAA	GGCTGAGTAAGCCAGAGA	22327
SPOT14, thyroid hormone responsive S14	NM_009381	CAGCGAGGCTGAGAAGCAC	CTGCTGAAACGGAGGAGCCGA	TCCAGCTCTCCGAGATCCT	21607

Gene Name	Applied Biosystems ID*	Amplicon Length	F.W. (g/mol)
ME1, malic enzyme 1, NADP(+)-dependent, cytosolic	Mm00782380_s1	86	26574
GAPDH, glyceraldehyde-3-phosphate dehydrogenase	Mm99999915_g1	107	33063
TE2, Olah, Thdec1, SAST	Mm00521437_m1	79	24411

* Applied Biosystems = Life Technologies