

Supplemental Table 1. TaqMan Assays and Primers used for reverse transcription-quantitative PCR (RT-qPCR).

Gene Symbol	Reference Sequence	TaqMan Assay ID	
<i>CYP2B6</i>	NM_000767	Hs04183483_g1	
<i>PLIN2</i>	NM_001122	Hs000605340_m1	
<i>NROB2 (SHP)</i>	NM_021969	Hs00222677_m1	
		Forward primer (5' to 3')	Reverse Primer (5' to 3')
<i>ACAA2</i>	NM_006111	CAGGGAATGCATCGGGTGTGA	GCCACAATTCTTGCCAGTG
<i>ACOT12</i>	NM_130767	TGCTCAAGTGGATCGACACC	TCCAACCTAGCTGTCTCCTCA
<i>ACOX1</i>	NM_004035	CTTCAACCCGGAGCTGCTTA	ATGTTCTCGATCCGGCG
<i>ACOX2</i>	NM_003500	ACAGAGGGGAGCCAGGTTCTT	ATCCCCCAATGACACTCGGT
<i>CPT1A</i>	NM_001876	CTTTGGACCGGTTGCTGATG	GTGCCTTCCAAAGCGATGAG
<i>CYP1A2</i>	NM_000761.4	AGCACCTGCCTCTACAGTTGG	TTTTCAGGCCTTTGGGGACC
<i>CYP2B6</i>	NM_000767	AGCTTCATGACCGAGCCAAA	CTGTGTCCTTGGGGATGATGT
<i>CYP2E1</i>	NM_000773.3	ACTCCCTGGCTCCAGCTTTA	TCTCTGTCCCCGCAAAGAAC
<i>CYP3A4</i>	NM_017460.5	TACCCAATAAGGCACCACCC	AATGTGCAGGAAAGCATCTGA
<i>EHHADH</i>	NM_001966	AAAAGTGGTTTGCCTGACGG	AAGTCGTA CTGATCGCGTTG
<i>HADHA</i>	NM_000182	GGAGGACTTGAGGTTGCCAT	TAAGGCCCCCAGCAAACTT
<i>HADHB</i>	NM_000183	CCCCAGCTGTCCAGACCAA	CCGATGCAACAACCCGTAA
<i>NROB2 (SHP)</i>	NM_021969	GTGGCTTCATGCTGTCTGG	CTGGCACATCGGGGTTGA
<i>PLIN2</i>	NM_001122	GGCGAGGCGGGGTTTATAG	CCCACTCGGTTGTGGATCA

Supplemental Table 2. Customized PCR array genes, functional classifications, and treatment-induced fold changes.

Gene Symbol	Gene Name	FOH	OA	OA+ FOH	CITCO	GW4064	GW7647	OA+ CITCO	OA+ GW4064	OA+ GW7647
Fatty Acid Uptake/Transport										
<i>CD36</i>	CD36 molecule (thrombospondin receptor)	1.1	1.6	1.2	-1.4	-1.1	3.3	1.6	1.3	5.1
<i>FABP1</i>	Fatty acid binding protein 1, liver	1.9	-1.3	1.2	-1.0	-1.7	2.8	1.4	-3.7	1.8
<i>LIPC</i>	Lipase, hepatic	1.3	-1.1	-1.0	-1.2	-2.4	1.2	1.5	-4.0	1.1
<i>SCP2</i>	Sterol carrier protein 2	1.2	-1.1	-1.1	-1.0	1.1	1.0	1.2	-1.9	-1.2
<i>SLC27A1</i>	Solute carrier family 27 (fatty acid transporter), member 1	-1.2	-1.2	1.3	1.1	1.1	1.0	-1.6	-3.1	-1.3
<i>SLC27A2</i>	Solute carrier family 27 (fatty acid transporter), member 2	1.7	-1.2	1.1	1.2	1.3	2.2	1.8	-1.4	1.4
Mitochondrial Fatty Acid Oxidation										
<i>ACAA1</i>	Acetyl-CoA acyltransferase 1	-1.1	-1.0	1.3	1.0	-1.1	2.0	-1.2	1.1	1.6
<i>ACAA2</i>	Acetyl-CoA acyltransferase 2	1.3	1.3	1.7	-1.1	1.1	2.0	1.7	-1.4	1.9
<i>ACADL</i>	Acyl-CoA dehydrogenase, long chain	1.1	-1.1	-1.1	-1.2	-1.4	-1.2	1.1	-2.3	-1.3
<i>ACADM</i>	Acyl-CoA dehydrogenase, C-4 to C-12 straight chain	1.2	1.1	1.3	-1.1	-1.3	1.3	1.1	-2.1	1.2
<i>ACADS</i>	Acyl-CoA dehydrogenase, C-2 to C-3 short chain	1.4	1.3	2.2	1.4	1.3	2.5	1.4	-2.4	1.8
<i>ACADVL</i>	Acyl-CoA dehydrogenase, very long chain	1.0	1.1	1.1	1.1	1.2	1.8	1.0	-1.3	1.5
<i>ACAT1</i>	Acetyl-CoA Acetyltransferase 1	1.3	1.1	1.1	-1.1	-1.4	1.1	1.5	-2.2	1.0
<i>ACSL3</i>	Acyl-CoA synthetase long-chain family member 3	1.2	-1.2	-1.1	1.0	1.3	1.5	1.1	-1.4	1.2
<i>ACSL4</i>	Acyl-CoA synthetase long-chain family member 4	-1.1	-1.0	1.4	1.2	-1.0	1.7	-1.1	-2.5	1.3
<i>ACSL5</i>	Acyl-CoA synthetase long-chain family member 5	1.2	1.1	1.5	1.1	1.6	1.8	1.3	-1.2	1.6
<i>CPT1A</i>	Carnitine palmitoyltransferase 1A (liver)	1.1	1.2	1.7	1.2	1.1	1.8	1.2	-1.7	1.6
<i>CPT2</i>	Carnitine palmitoyltransferase 2	-1.0	-1.1	1.1	1.4	1.2	2.0	-1.3	-1.9	1.3
<i>DECRI</i>	2,4-dienoyl CoA reductase 1, mitochondrial	1.2	-1.2	-1.4	-1.0	1.0	1.1	1.3	-1.6	-1.1

Gene Symbol	Gene Name	FOH	OA	OA+ FOH	CITCO	GW4064	GW7647	OA+ CITCO	OA+ GW4064	OA+ GW7647
<i>ECHS1</i>	Enoyl CoA hydratase, short chain, 1, mitochondrial	-1.1	-1.0	1.1	1.1	1.0	1.3	-1.1	-2.0	-1.1
<i>HADH</i>	Hydroxyacyl-CoA dehydrogenase Hydroxyacyl-CoA	1.2	-1.0	1.0	-1.0	-1.0	1.4	1.3	-2.1	1.2
<i>HADHA</i>	dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit	1.1	1.2	1.3	1.1	1.1	2.3	1.4	-1.3	2.1
<i>HADHB</i>	Hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	1.3	1.6	1.5	1.1	1.0	2.5	1.9	-1.0	2.3
<i>SLC24A20</i>	Solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	-1.0	1.2	1.3	1.2	-1.0	2.0	1.2	-1.5	1.7
<u>Peroxisomal β-Oxidation</u>										
<i>ACOT4</i>	Acyl-CoA thioesterase 4	1.1	-1.2	-1.0	1.3	1.1	1.3	1.3	-1.7	1.4
<i>ACOT8</i>	Acyl-CoA thioesterase 8	-1.2	-1.1	1.2	1.2	1.1	1.1	-1.3	-2.2	-1.2
<i>ACOX1</i>	Acyl-CoA oxidase 1, palmitoyl	1.1	-1.1	1.3	1.2	1.0	1.4	-1.0	-2.1	1.3
<i>ACOX2</i>	Acyl-CoA oxidase 2, branched chain	1.7	-1.4	-1.2	1.0	-2.9	1.3	1.1	-6.6	-1.3
<i>ECHI</i>	Enoyl CoA hydratase 1, peroxisomal	1.3	-1.0	-1.0	-1.0	-1.2	1.6	-1.1	-2.0	-1.1
<i>EHHADH</i>	Enoyl-CoA, hydratase/3- hydroxyacyl CoA dehydrogenase	-1.0	-1.0	1.2	1.1	-1.2	1.3	-1.1	-2.7	1.0
<u>Microsomal ω-Oxidation</u>										
<i>CYP2E1</i>	Cytochrome P450, family 2, subfamily E, polypeptide 1	-1.4	1.3	2.2	-1.0	-6.0	-1.1	1.4	-9.6	-1.1
<i>CYP4A11</i>	Cytochrome P450, family 4, subfamily A, polypeptide 11	-1.0	-1.1	1.1	-1.1	-1.8	2.1	-1.1	-3.0	1.4
<u>Fatty Acid Biosynthesis</u>										
<i>ACACA</i>	Acetyl-CoA carboxylase alpha	-1.2	-1.2	1.2	-1.0	-1.0	-1.0	-1.4	-2.4	-1.2
<i>ACACB</i>	Acetyl-CoA carboxylase beta	1.0	-1.2	1.1	1.1	1.2	1.0	-1.5	-2.4	1.1
<i>ACLY</i>	ATP citrate lyase	1.0	-1.2	1.1	1.1	1.2	1.0	-1.2	-2.0	-1.1
<i>ELOVL1</i>	ELOVL fatty acid elongase 1	1.1	1.0	-1.2	1.3	1.4	1.4	1.1	-1.2	1.1

Gene Symbol	Gene Name	FOH	OA	OA+ FOH	CITCO	GW4064	GW7647	OA+ CITCO	OA+ GW4064	OA+ GW7647
<i>ELOVL5</i>	ELOVL fatty acid elongase 5	-1.1	-1.1	1.0	1.1	1.2	1.3	1.0	-1.6	1.2
<i>ELOVL6</i>	ELOVL fatty acid elongase 6	1.0	1.1	1.4	1.3	1.2	1.2	-1.2	-1.8	1.2
<i>FASN</i>	Fatty acid synthase	1.1	-1.2	1.3	1.1	1.1	1.1	-1.2	-2.4	1.4
<i>MCAT</i>	Malonyl CoA:ACP acyltransferase (mitochondrial)	-1.2	1.0	1.2	1.2	-1.0	1.1	-1.5	-2.0	-1.1
<i>MECR</i>	Mitochondrial trans-2-enoyl-CoA reductase	-1.0	1.0	-1.1	1.1	1.2	1.3	1.0	-1.6	1.1
<i>PECR</i>	Peroxisomal trans-2-enoyl-CoA reductase	-1.1	-1.3	-1.2	1.2	-1.1	1.1	-1.2	-2.5	-1.3
<i>SCD</i>	Stearoyl-CoA desaturase	1.2	-2.0	-1.4	1.2	-1.4	1.6	-2.0	-6.2	-1.5
<i>SCD5</i>	Stearoyl-CoA desaturase 5	-1.2	-1.4	-1.3	1.1	1.2	1.2	-1.2	-2.1	-1.3
<i>TECR</i>	Trans-2,3-enoyl-CoA reductase	-1.1	-1.1	1.0	1.1	1.1	1.2	1.1	-1.7	1.1
Fatty Acid Metabolism (Other)										
<i>ACAT2</i>	Acetyl-CoA Acetyltransferase 2	1.3	1.1	1.1	-1.1	-1.0	-1.1	1.4	-1.6	1.0
<i>ACOT1</i>	Acyl-CoA thioesterase 1	1.1	1.1	1.3	1.4	1.2	1.6	-1.1	-2.0	1.1
<i>ACOT6</i>	Acyl-CoA thioesterase 6	-1.1	-1.1	-1.3	-1.3	-1.6	-1.2	1.5	-8.6	-1.2
<i>ACOT7</i>	Acyl-CoA thioesterase 7	1.0	-1.1	-1.2	1.3	1.4	1.2	1.3	-1.4	1.2
<i>ACOT12</i>	Acyl-CoA thioesterase 12	1.6	1.8	3.9	1.1	-1.6	1.3	2.0	-2.6	1.6
<i>COX10</i>	Cytochrome C oxidase assembly homolog 10	-1.3	-1.1	1.1	1.2	1.1	1.3	-1.0	-2.0	1.2
Triglyceride Biosynthesis										
<i>LPIN1</i>	Lipin 1	-1.2	-1.1	1.3	-1.0	-1.3	1.1	-1.1	-2.8	1.0
<i>LPIN2</i>	Lipin 2	-1.1	-1.2	1.2	-1.0	-1.4	1.0	-1.3	-4.3	-1.2
<i>LPIN3</i>	Lipin 3	-1.3	-1.3	1.1	-1.2	-1.4	-1.2	-1.3	-3.4	-1.2
<i>AGPAT1</i>	1-acylglycerol-3-phosphate O-acyltransferase 1	-1.1	-1.1	-1.3	1.3	1.6	1.4	-1.0	-1.4	-1.1
<i>AGPAT2</i>	1-acylglycerol-3-phosphate O-acyltransferase 2	1.0	1.4	1.2	1.5	1.7	2.2	1.7	1.0	1.7
<i>AGPAT6</i>	1-acylglycerol-3-phosphate O-acyltransferase 6	-1.2	1.0	1.4	1.0	1.2	1.1	-1.0	-2.1	1.1
<i>AGPAT9</i>	1-acylglycerol-3-phosphate O-acyltransferase 9	-1.2	1.3	1.2	1.3	1.4	1.4	1.1	-1.5	1.7
<i>DGAT1</i>	Diacylglycerol O-acyltransferase 1	-1.3	-1.2	-1.0	-1.0	-2.0	1.1	-1.2	-3.0	-1.2
<i>DGAT2</i>	Diacylglycerol O-acyltransferase 2	-1.1	1.1	1.3	1.2	-1.4	1.3	-1.1	-3.0	1.0

Gene Symbol	Gene Name	FOH	OA	OA+ FOH	CITCO	GW4064	GW7647	OA+ CITCO	OA+ GW4064	OA+ GW7647
<i>SREBF1</i>	Sterol regulatory element binding transcription factor 1	-1.1	-1.6	-1.0	1.1	-1.2	1.2	-1.8	-4.9	-1.7
<i>MTTP</i>	Microsomal triglyceride transfer protein large subunit	-1.0	-1.3	-1.1	1.2	-1.3	-1.1	-1.1	-3.6	-1.4
<u>Cholesterol Metabolism</u>										
<i>DHDDS</i>	Dehydrololichyl diphosphate synthase complex subunit	-1.0	1.2	1.2	1.1	1.3	1.5	-1.0	-1.8	1.3
<i>FDFTI</i>	Farnesyl-diphosphate farnesyltransferase 1	1.4	-1.0	1.0	1.1	1.2	1.2	1.4	-1.3	1.1
<i>FDPS</i>	Farnesyl diphosphate synthase	1.3	-1.1	-1.2	1.1	1.1	1.2	-1.0	-1.6	-1.0
<i>FNTA</i>	Farnesyltransferase, CAAX box, alpha	-1.2	-1.1	1.3	1.1	-1.1	1.3	-1.1	-2.5	1.0
<i>FNTB</i>	Farnesyltransferase, CAAX box, beta	-1.3	-1.1	1.2	1.2	1.2	1.2	-1.1	-2.1	1.0
<i>GGPS1</i>	Geranylgeranyl diphosphate synthase 1	1.1	-1.1	-1.1	1.0	1.1	1.0	-1.0	-1.7	-1.1
<i>HMGCR</i>	3-hydroxy-3-methylglutaryl-CoA reductase	1.1	1.2	1.4	1.1	1.3	1.1	1.3	-1.1	1.4
<i>PDSSI</i>	Prenyl (decaprenyl) diphosphate synthase, subunit 1	1.4	1.2	1.0	-1.1	-1.3	1.0	1.6	-1.7	1.1
<i>PPAPDC2</i>	Phosphatidic acid phosphatase type 2 domain containing 2	-1.1	-1.2	1.1	1.1	1.1	1.0	-1.2	-2.1	-1.3
<i>RABGGTA</i>	Rab geranylgeranyltransferase, alpha subunit	-1.1	-1.2	-1.4	1.2	1.2	1.2	1.1	-1.5	-1.1
<i>RABGGTB</i>	Rab geranylgeranyltransferase, beta subunit	1.2	-1.2	-1.3	-1.1	-1.0	1.1	1.4	-1.5	-1.0
<u>Carbohydrate Metabolism</u>										
<i>MLXIPL</i>	MLX interacting protein-like	-1.1	-1.2	-1.5	1.3	-1.7	1.0	-1.3	-2.8	-1.4
<i>PCK1</i>	Phosphoenolpyruvate carboxykinase 1 (soluble)	-1.5	1.8	4.0	1.4	-5.4	3.5	2.5	-5.7	4.2
<u>Inflammation</u>										
<i>IL6</i>	Interleukin 6 (interferon, beta 2)	-1.1	-1.9	1.1	-1.0	-1.0	-1.3	-1.5	-4.5	-2.6
<u>Nuclear Receptors</u>										
<i>NRIH4</i>	Nuclear receptor subfamily 1, group H, member 4	-1.3	-1.4	1.1	1.1	-1.5	-1.4	-1.4	-3.1	1.0

Gene Symbol	Gene Name	FOH	OA	OA+ FOH	CITCO	GW4064	GW7647	OA+ CITCO	OA+ GW4064	OA+ GW7647
<i>NR1I3</i>	Nuclear receptor subfamily 1, group I, member 3	1.0	-1.0	1.2	1.0	-1.5	1.1	-1.2	-6.3	-2.8
<i>PPARA</i>	Peroxisome proliferator-activated receptor alpha	1.0	1.1	1.7	1.1	1.1	-1.1	-1.4	-2.6	-1.2
<i>PPARG</i>	Peroxisome proliferator-activated receptor gamma	1.4	1.1	1.3	-1.2	1.6	1.0	1.1	-1.4	-1.1
<u>Nuclear Receptor Target Genes (Positive Controls)</u>										
<i>CYP2B6</i>	Cytochrome P450, family 2, subfamily B, polypeptide 6	2.1	-1.5	2.3	9.9	-1.6	1.0	4.2	-4.6	-1.9
<i>NR0B2 (SHP)</i>	Nuclear receptor subfamily 0, group B, member 2	-1.3	-1.3	-1.7	1.1	5.0	-1.4	-1.2	2.3	-1.9
<i>PLIN2</i>	Perilipin 2	1.3	1.5	1.8	-1.0	1.3	3.8	1.9	1.1	3.9
<u>Apolipoproteins</u>										
<i>APOA5</i>	Apolipoprotein A5	1.3	2.6	4.3	1.1	1.6	2.0	3.2	1.5	2.6
<i>APOB</i>	Apolipoprotein B	-1.0	-1.5	1.1	-1.1	-1.4	-1.2	-1.4	-3.7	-1.3
<i>APOC4</i>	Apolipoprotein C4	-1.4	-1.2	-1.1	-1.1	1.7	-1.5	-1.7	-2.1	-1.7
<i>APOE</i>	Apolipoprotein E	1.1	-1.1	1.1	-1.0	-1.2	1.1	-1.2	-2.0	-1.3

Genes whose expression changed by at least 1.3-fold relative to control in response to farnesol treatment, alone and/or in combination with oleic acid, are indicated by grey shading. Values for the FOH, OA, and OA+FOA treatment groups are the fold changes relative to FF-BSA+ EtOH treated controls. Values for the CITCO, GW4064, GW7647, OA+CITCO, OA+GW4064, and OA+GW7647 treatment groups are the fold changes relative to FF-BSA+ DMSO-treated controls.