



## Mouse Fatty Liver Signaling Primer Library

**Catalog No:** MFTL-1  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against fatty liver signaling genes and 8 housekeeping genes. Provided in a 96-well microplate (20 ul - 10 uM). Perform up to 100 PCR arrays (based on 20 ul assay volume per reaction). Just add cDNA template and SYBR green master mix.

### Gene List:

- Abca1 ATP-binding cassette, sub-family A (ABC1), member 1
- Abcg1 ATP-binding cassette, sub-family G (WHITE), member 1
- Acaca acetyl-Coenzyme A carboxylase alpha
- Acly ATP citrate lyase
- Acsl3 acyl-CoA synthetase long-chain family member 3
- Acsl4 acyl-CoA synthetase long-chain family member 4
- Acsm3 acyl-CoA synthetase medium-chain family member 3
- Adh4 alcohol dehydrogenase 4 (class II), pi polypeptide
- Adh5 alcohol dehydrogenase 5 (class III), chi polypeptide
- Adipoq adiponectin, C1Q and collagen domain containing
- Adipor1 adiponectin receptor 1
- Adipor2 adiponectin receptor 2
- Akt1 thymoma viral proto-oncogene 1
- Aldh2 aldehyde dehydrogenase 2, mitochondrial
- Apoa1 apolipoprotein A-I
- Apob apolipoprotein B
- Apoc1 apolipoprotein C-I
- Apoc2 apolipoprotein C-II
- Apoc3 apolipoprotein C-III
- Apoe apolipoprotein E
- Cat catalase
- Cbs cystathionine beta-synthase
- Cd14 CD14 antigen
- Cd36 CD36 antigen
- Cebpb CCAAT/enhancer binding protein (C/EBP), beta
- Cpt1a carnitine palmitoyltransferase 1a, liver
- Cpt2 carnitine palmitoyltransferase 2
- Ctgf connective tissue growth factor
- Cyp2e1 cytochrome P450, family 2, subfamily e, polypeptide 1
- Cyp7a1 cytochrome P450, family 7, subfamily a, polypeptide 1
- Dgat2 diacylglycerol O-acyltransferase 2
- Elovl1 elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1
- Elovl2 elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2
- Fabp1 fatty acid binding protein 1
- Fabp4 fatty acid binding protein 4, adipocyte
- Fabp5 fatty acid binding protein 5, epidermal
- Fas Fas (TNF receptor superfamily member 6)
- Fasn fatty acid synthase
- Foxa2 forkhead box A2
- G6pc glucose-6-phosphatase, catalytic
- Gck glucokinase
- Gsk3b glycogen synthase kinase 3 beta
- Gstm1 glutathione S-transferase, mu 1
- Gstm3 glutathione S-transferase, mu 3
- Gylg glycerol kinase
- Hmgcr 3-hydroxy-3-methylglutaryl-Coenzyme A reductase
- Hmgcs2 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2
- Hnf4a hepatic nuclear factor 4, alpha
- Ifng interferon gamma
- Il1a interleukin 1 alpha
- Il1b interleukin 1 beta
- Il10 interleukin 10
- Il6 interleukin 6
- Insr insulin receptor
- Irs1 insulin receptor substrate 1
- Krt18 keratin 18
- Lcn13 lipocalin 13
- Lcn2 lipocalin 2
- Ldlr low density lipoprotein receptor
- Lep leptin
- Lepr leptin receptor
- Lpl lipoprotein lipase
- Mapk1 mitogen-activated protein kinase 1



- Mtor mechanistic target of rapamycin (serine/threonine kinase)
- Nfkb1 nuclear factor of kappa light polypeptide gene enhancer in B cells 1
- Nrlh3 (Lxra) Nuclear receptor subfamily 1, group H, member 3
- Pck2 phosphoenolpyruvate carboxykinase 2
- Pdk4 pyruvate dehydrogenase kinase, isoenzyme 4
- Phgdh 3-phosphoglycerate dehydrogenase
- Pik3ca phosphatidylinositol 3-kinase, catalytic, alpha polypeptide
- Pik3r1 phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
- Ppara peroxisome proliferator activated receptor alpha
- Ppard peroxisome proliferator activator receptor delta
- Pparg peroxisome proliferator activated receptor gamma
- Rbp4 retinol binding protein 4, plasma
- Rxra retinoid X receptor alpha
- Scd1 stearoyl-Coenzyme A desaturase 1
- Serpine1 serine (or cysteine) peptidase inhibitor, clade E, member 1
- Slc2a1 solute carrier family 2 (facilitated glucose transporter), member 1
- Slc2a2 solute carrier family 2 (facilitated glucose transporter), member 2
- Slc2a4 solute carrier family 2 (facilitated glucose transporter), member 4
- Slc2a8 solute carrier family 2 (facilitated glucose transporter), member 8
- Sptlc2 serine palmitoyltransferase, long chain base subunit 2
- Srebf1 sterol regulatory element binding transcription factor 1
- Stat3 signal transducer and activator of transcription 3
- Tnf tumor necrosis factor
- Vcan versican
- Xbp1 X-box binding protein 1
- Actb Actin, beta
- B2M Beta-2-microglobulin
- Gapd Glyceraldehyde-3-phosphate dehydrogenase
- Gusb Glucuronidase, beta
- Hpirt1 Hypoxanthine phosphoribosyltransferase 1
- Pkg Phosphoglycerate kinase 1
- Ppia Peptidylprolyl isomerase A
- Rpl13A Ribosomal protein L13a

#### Usage

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