



## Human Fatty Acid and Lipid Metabolism Primer Library

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

### Description

Contains 88 primer sets directed against fatty acid and lipid metabolism related genes and 8 housekeeping gene primer sets. 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:

- ACACA acetyl-CoA carboxylase alpha
- ACADL acyl-CoA dehydrogenase, long chain
- ACADM acyl-CoA dehydrogenase, C-4 to C-12 straight chain
- ACADS acyl-CoA dehydrogenase, C-2 to C-3 short chain
- ACADVL acyl-CoA dehydrogenase, very long chain
- ACAT1 acetyl-CoA acetyltransferase 1
- ACLY ATP citrate lyase
- ACOT1 acyl-CoA thioesterase 1
- ACOT11 acyl-CoA thioesterase 11
- ACOT12 acyl-CoA thioesterase 12
- ACOT13 acyl-CoA thioesterase 13
- ACOT2 acyl-CoA thioesterase 2
- ACOT4 acyl-CoA thioesterase 4
- ACOT6 acyl-CoA thioesterase 6
- ACOT7 acyl-CoA thioesterase 7
- ACOT8 acyl-CoA thioesterase 8
- ACOT9 acyl-CoA thioesterase 9
- ACSBG1 acyl-CoA synthetase bubblegum family member 1
- ACSBG2 acyl-CoA synthetase bubblegum family member 2
- ACSL1 acyl-CoA synthetase long-chain family member 1
- ACSL3 acyl-CoA synthetase long-chain family member 3
- ACSL4 acyl-CoA synthetase long-chain family member 4
- ACSL5 acyl-CoA synthetase long-chain family member 5
- ACSL6 acyl-CoA synthetase long-chain family member 6
- AGK acylglycerol kinase
- AGPAT1 1-acylglycerol-3-phosphate O-acyltransferase 1
- AGPAT2 1-acylglycerol-3-phosphate O-acyltransferase 2
- AGPAT3 1-acylglycerol-3-phosphate O-acyltransferase 3
- AGPAT4 1-acylglycerol-3-phosphate O-acyltransferase 4
- AGPAT5 1-acylglycerol-3-phosphate O-acyltransferase 5
- AGPAT6 1-acylglycerol-3-phosphate O-acyltransferase 6
- AGPAT9 1-acylglycerol-3-phosphate O-acyltransferase 9
- BDH1 3-hydroxybutyrate dehydrogenase, type 1
- BDH2 3-hydroxybutyrate dehydrogenase, type 2
- CPT1A carnitine palmitoyltransferase 1A (liver)
- CPT1B carnitine palmitoyltransferase 1B (muscle)
- DECR1 2,4-dienoyl CoA reductase 1, mitochondrial
- DGAT1 diacylglycerol O-acyltransferase 1
- ECHS1 enoyl CoA hydratase, short chain, 1, mitochondrial
- EC11 enoyl-CoA delta isomerase 1
- ELOVL1 ELOVL fatty acid elongase 1
- ELOVL2 ELOVL fatty acid elongase 2
- ELOVL3 ELOVL fatty acid elongase 3
- ELOVL4 ELOVL fatty acid elongase 4
- ELOVL5 ELOVL fatty acid elongase 5
- ELOVL6 ELOVL fatty acid elongase 6
- ELOVL7 ELOVL fatty acid elongase 7
- FASN fatty acid synthase
- GK glycerol kinase
- GK2 glycerol kinase 2
- GK3P glycerol kinase 3 pseudogene
- GPAM glycerol-3-phosphate acyltransferase, mitochondrial
- GPAT2 glycerol-3-phosphate acyltransferase 2, mitochondrial
- GPD1 glycerol-3-phosphate dehydrogenase 1 (soluble)
- GPD1L glycerol-3-phosphate dehydrogenase 1-like



- HADH hydroxyacyl-CoA dehydrogenase
- HADHA hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit
- HADHB hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit
- HMGCL 3-hydroxymethyl-3-methylglutaryl-CoA lyase
- HMGCLL1 3-hydroxymethyl-3-methylglutaryl-CoA lyase-like 1
- HSD17B12 hydroxysteroid (17-beta) dehydrogenase 12
- HSD17B3 hydroxysteroid (17-beta) dehydrogenase 3
- LCLAT1 lysocardiolipin acyltransferase 1
- LPCAT4 lysophosphatidylcholine acyltransferase 4
- LPIN1 lipin 1
- LPIN2 lipin 2
- LPIN3 lipin 3
- MOGAT1 monoacylglycerol O-acyltransferase 1
- MOGAT2 monoacylglycerol O-acyltransferase 2
- MOGAT3 monoacylglycerol O-acyltransferase 3
- MUT methylmalonyl CoA mutase
- OXCT1 3-oxoacid CoA transferase 1
- PCCA propionyl CoA carboxylase, alpha polypeptide
- PCCB propionyl CoA carboxylase, beta polypeptide
- PPARD peroxisome proliferator-activated receptor delta
- PRKAA2 protein kinase, AMP-activated, alpha 2 catalytic subunit
- PRKAB2 protein kinase, AMP-activated, beta 2 non- catalytic subunit
- PRKAG2 protein kinase, AMP-activated, gamma 2 non- catalytic subunit
- PTPLA protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A
- PTPLAD1 protein tyrosine phosphatase-like A domain containing 1
- PTPLAD2 protein tyrosine phosphatase-like A domain containing 2
- PTPLB protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b
- RXRA retinoid X receptor, alpha
- SCD5 stearoyl-CoA desaturase 5
- TECR trans-2,3-enoyl-CoA reductase
- TECRL trans-2,3-enoyl-CoA reductase-like
- THEM4 thioesterase superfamily member 4
- THEM5 thioesterase superfamily member 5
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPDH Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK1 Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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