



## Human Ferroptosis PCR Primer Library

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

### Description

Contains 88 primer sets directed against apoptosis 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:

- ACSF2 acyl-CoA synthetase 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
- AKR1B1 aldo-keto reductase family 1, member B1 (aldose reductase)
- AKR1B10 aldo-keto reductase family 1, member B10 (aldose reductase)
- AKR1C1 aldo-keto reductase family 1, member C1
- ALDH1A1 aldehyde dehydrogenase 1 family, member A1
- ALOX15 arachidonate 15-lipoxygenase
- ATG5 autophagy related 5
- ATG7 autophagy related 7
- ATP5G3 ATP synthase, H<sup>+</sup> transporting, mitochondrial Fo complex, subunit C3 (subunit 9)
- BRAF B-Raf proto-oncogene, serine/threonine kinase
- CARS1 cysteinyl-tRNA Synthetase 1
- CHAC1 ChaC glutathione-specific gamma-glutamylcyclotransferase 1
- CISD1 CDGSH iron sulfur domain 1
- CP ceruloplasmin (ferroxidase)
- CS citrate synthase
- CYBB cytochrome b-245, beta polypeptide
- DMT1 dementia, familial nonspecific
- EMC2 ER membrane protein complex subunit 2
- EPRS glutamyl-prolyl-tRNA synthetase
- FTH1 ferritin, heavy polypeptide 1
- FTL ferritin, light polypeptide
- FTMT ferritin mitochondrial
- GCLC glutamate-cysteine ligase, catalytic subunit
- GCLM glutamate-cysteine ligase, modifier subunit
- GLS2 glutaminase 2 (liver, mitochondrial)
- GOT1 glutamic-oxaloacetic transaminase 1, soluble
- GPX4 glutathione peroxidase 4
- GSS glutathione synthetase
- GSTA1 glutathione S-transferase alpha 1
- GSTP1 glutathione S-transferase pi 1
- HAMP hepcidin antimicrobial peptide
- HARS histidyl-tRNA synthetase
- HEPH hephaestin
- HFE homeostatic Iron Regulator
- HMOX1 heme oxygenase 1
- HMOX2 heme oxygenase 2
- HRAS Harvey rat sarcoma viral oncogene homolog
- HSF1 heat shock transcription factor 1
- HSPB1 heat shock 27kDa protein 1
- IREB2 iron-responsive element binding protein 2
- KEAP1 kelch-like ECH-associated protein 1
- KRAS Kirsten rat sarcoma viral oncogene homolog
- LOX lysyl oxidase
- LPCAT3 lysophosphatidylcholine acyltransferase 3
- MAP1LC3A microtubule-associated protein 1 light chain 3 alpha
- MAP1LC3B microtubule-associated protein 1 light chain 3 beta
- MAP1LC3C microtubule-associated protein 1 light chain 3 gamma
- NCOA4 nuclear receptor coactivator 4
- NFE2L2 nuclear factor, erythroid 2-like 2
- NOX1 NADPH Oxidase 1
- NOX3 NADPH Oxidase 3



- NOX4 NADPH Oxidase 4
- NQO1 NAD(P)H dehydrogenase, quinone 1
- NRAS neuroblastoma RAS viral (v-ras) oncogene homolog
- NFE2L2 nuclear Factor, Erythroid 2 Like 2
- PANX2 pannexin 2
- PCBP1 poly(rC) binding protein 1
- PCBP2 poly(rC) binding protein 2
- PPARG peroxisome proliferator-activated receptor gamma
- PRDX6 peroxiredoxin 6
- PRNP prion protein
- PTGES2 prostaglandin E synthase 2
- BBC3 BCL2 Binding Component 3
- RPL8 ribosomal protein L8
- SAT1 spermidine/spermine N1-acetyltransferase 1
- SAT2 spermidine/spermine N1-acetyltransferase family member 2
- SLC11A2 solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2
- SLC1A5 solute carrier family 1 (neutral amino acid transporter), member 5
- SLC39A14 solute carrier family 39 (zinc transporter), member 14
- SLC39A8 solute carrier family 39 (zinc transporter), member 8
- SLC3A2 solute carrier family 3 (amino acid transporter heavy chain), member 2
- SLC40A1 solute carrier family 40 (iron-regulated transporter), member 1
- SLC7A11 solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11
- SQSTM1 sequestosome 1
- STEAP3 STEAP family member 3, metalloreductase
- STIM1 stromal interaction molecule 1
- TF transferrin
- TFR2 Transferrin Receptor 2
- TFRC transferrin receptor
- TP53 tumor protein p53
- TXNRD1 thioredoxin reductase 1
- VDAC2 voltage-dependent anion channel 2
- VDAC3 voltage-dependent anion channel 3
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPD Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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