The detailed information of 60 ferroptosis-related genes

| No. | Gene symbol | Full name                                                                 |
|-----|-------------|---------------------------------------------------------------------------|
| 1   | ACSL4       | Acyl-CoA synthetase long chain family member 4                            |
| 2   | AKR1C1      | Aldo-keto reductase family 1 member C1                                    |
| 3   | AKR1C2      | Aldo-keto reductase family 1 member C2                                    |
| 4   | AKR1C3      | Aldo-keto reductase family 1 member C3                                    |
| 5   | ALOX15      | Arachidonate 15-lipoxygenase                                               |
| 6   | ALOX5       | Arachidonate 5-lipoxygenase                                                |
| 7   | ALOX12      | Arachidonate 12-lipoxygenase, 12S type                                    |
| 8   | ATP5MC3     | ATP synthase membrane subunit c locus 3                                    |
| 9   | CARS1       | Cysteinyl-tRNA synthetase                                                  |
| 10  | CBS         | Cystathionine-beta-synthase                                                |
| 11  | CD44        | CD44 molecule                                                              |
| 12  | CHAC1       | ChaC glutathione specific gamma-glutamylcyclotransferase 1                |
| 13  | CISD1       | CDGSH iron sulfur domain 1                                                 |
| 14  | CS          | Citrate synthase                                                           |
| 15  | DPP4        | Dipeptidyl peptidase 4                                                    |
| 16  | FANCD2      | Fanconi anemia complementation group D2                                   |
| 17  | GCLC        | Glutamate-cysteine ligase catalytic subunit                                |
| 18  | GCLM        | Glutamate-cysteine ligase modifier subunit                                |
| 19  | GLS2        | Glutaminase 2                                                              |
| 20  | GPX4        | Glutathione peroxidase 4                                                   |
21  GSS  Glutathione synthetase
22  HMGCR  3-hydroxy-3-methylglutaryl-CoA reductase
23  HSPB1  Heat shock protein family B (small) member 1
24  CRYAB  Crystallin alpha B
25  LPCAT3  Lysophosphatidylcholine acyltransferase 3
26  MT1G  Metallothionein 1G
27  NCOA4  Nuclear receptor coactivator 4
28  PTGS2  Prostaglandin-endoperoxide synthase 2
29  RPL8  Ribosomal protein L8
30  SAT1  Spermidine/spermine N1-acetyltransferase 1
31  SLC7A11  Solute carrier family 7 member 11
32  FDFT1  Farnesyl-diphosphate farnesyltransferase 1
33  TFRC  Transferrin receptor
34  TP53  Tumor protein p53
35  EMC2  ER membrane protein complex subunit 2
36  AIFM2  Apoptosis inducing factor, mitochondria associated 2
37  PHKG2  Phosphorylase kinase catalytic subunit gamma 2
38  HSBP1  Heat shock factor binding protein 1
39  ACO1  Aconitase 1
40  FTH1  Ferritin heavy chain 1
41  STEAP3  STEAP3 metalloreductase
42  NFS1  NFS1, cysteine desulfurase
|   | Gene      | Description                                                  |
|---|-----------|--------------------------------------------------------------|
|43 | ACSL3     | Acyl-CoA synthetase long chain family member 3               |
|44 | ACACA     | Acetyl-CoA carboxylase alpha                                  |
|45 | PEBP1     | Phosphatidylethanolamine binding protein 1                   |
|46 | ZEB1      | Zinc finger E-box binding homeobox 1                         |
|47 | SQLE      | Squalene epoxidase                                           |
|48 | FADS2     | Fatty acid desaturase 2                                      |
|49 | NFE2L2    | Nuclear factor, erythroid 2 like 2                           |
|50 | KEAP1     | Kelch like ECH associated protein 1                          |
|51 | NQO1      | NAD(P)H quinone dehydrogenase 1                              |
|52 | NOX1      | NADPH oxidase 1                                               |
|53 | ABCC1     | ATP binding cassette subfamily C member 1                    |
|54 | SLC1A5    | Solute carrier family 1 member 5                             |
|55 | GOT1      | Glutamic-oxaloacetic transaminase 1                          |
|56 | G6PD      | Glucose-6-phosphate dehydrogenase                            |
|57 | PGD       | Phosphogluconate dehydrogenase                               |
|58 | IREB2     | Iron responsive element binding protein 2                    |
|59 | HMOX1     | Heme oxygenase 1                                              |
|60 | ACSF2     | Acyl-CoA synthetase family member 2                           |