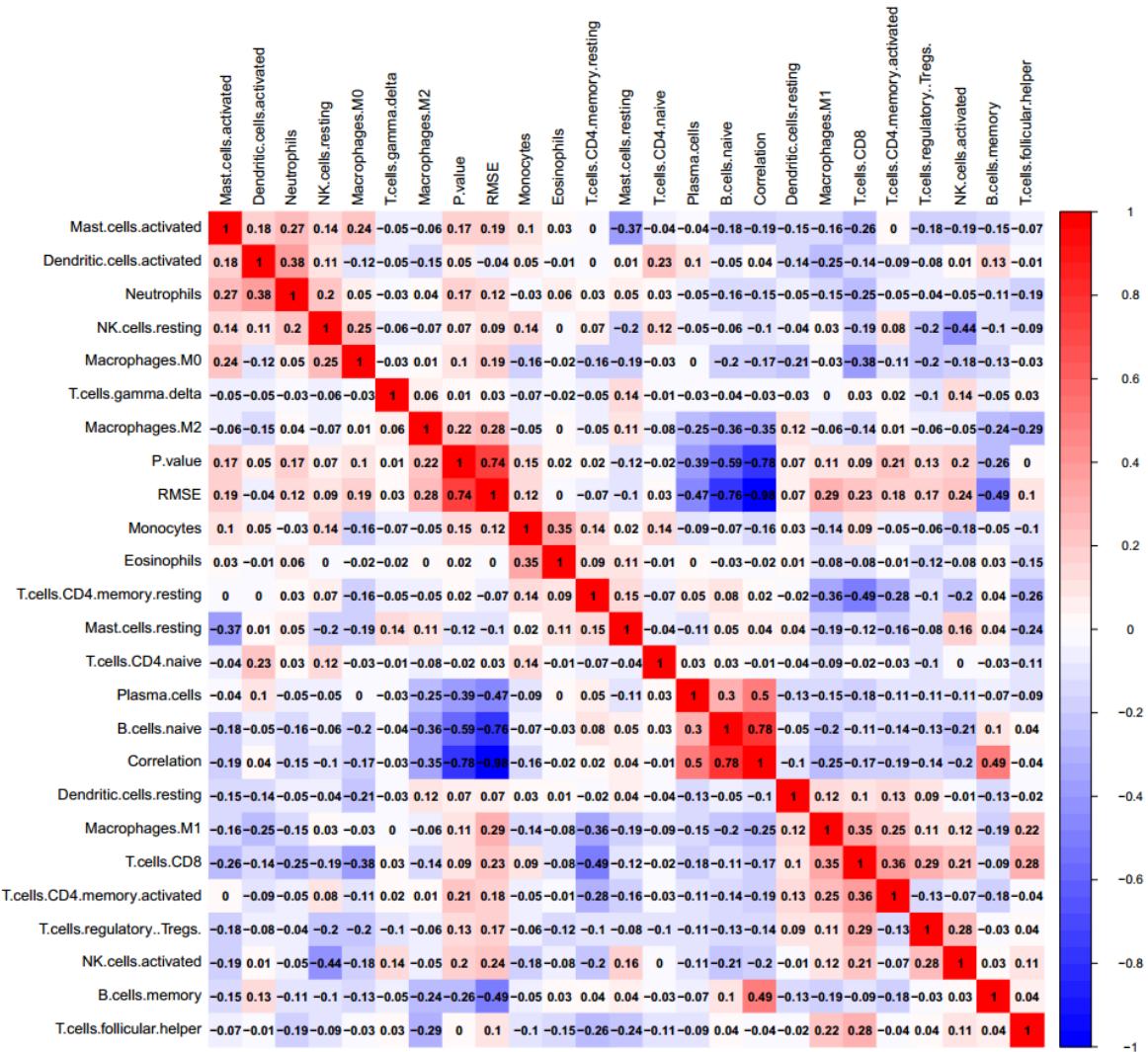


Supplementary Figure 1 The Flow chart of this study.



Supplementary Figure 2 The correlation matrix shows correlations between infiltrating immune cells in GC samples, as assessed by.

Supplementary Table 1 The list of inflammatory-related genes

| Gene symbol | Gene description |
|--------------------|---|
| ABCA1 | ATP binding cassette subfamily A member 1 |
| ABI1 | abl interactor 1 |
| ACVR1B | activin A receptor type 1B |
| ACVR2A | activin A receptor type 2A |
| ADM | adrenomedullin |
| ADORA2B | adenosine A2b receptor |
| ADRM1 | adhesion regulating molecule 1 |
| AHR | aryl hydrocarbon receptor |
| APLNR | apelin receptor |
| AQP9 | aquaporin 9 |
| | ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 |
| ATP2A2 | |
| ATP2B1 | ATPase plasma membrane Ca ²⁺ transporting 1 |
| ATP2C1 | ATPase secretory pathway Ca ²⁺ transporting 1 |
| AXL | AXL receptor tyrosine kinase |
| BDKRB1 | bradykinin receptor B1 |
| BEST1 | bestrophin 1 |
| BST2 | bone marrow stromal cell antigen 2 |
| BTG2 | BTG anti-proliferation factor 2 |
| C3AR1 | complement C3a receptor 1 |
| C5AR1 | complement C5a receptor 1 |
| CALCRL | calcitonin receptor like receptor |
| CCL17 | C-C motif chemokine ligand 17 |
| CCL2 | C-C motif chemokine ligand 2 |
| CCL20 | C-C motif chemokine ligand 20 |
| CCL22 | C-C motif chemokine ligand 22 |
| CCL24 | C-C motif chemokine ligand 24 |
| CCL5 | C-C motif chemokine ligand 5 |
| CCL7 | C-C motif chemokine ligand 7 |

| | |
|---------|---|
| CCR7 | C-C motif chemokine receptor 7 |
| CCRL2 | C-C motif chemokine receptor like 2 |
| CD14 | CD14 molecule |
| CD40 | CD40 molecule |
| CD48 | CD48 molecule |
| CD55 | CD55 molecule (Cromer blood group) |
| CD69 | CD69 molecule |
| CD70 | CD70 molecule |
| CD82 | CD82 molecule |
| CDKN1A | cyclin dependent kinase inhibitor 1A |
| CHST2 | carbohydrate sulfotransferase 2 |
| CLEC5A | C-type lectin domain containing 5A |
| CMKLR1 | chemerin chemokine-like receptor 1 |
| CSF1 | colony stimulating factor 1 |
| CSF3 | colony stimulating factor 3 |
| CSF3R | colony stimulating factor 3 receptor |
| CX3CL1 | C-X3-C motif chemokine ligand 1 |
| CXCL10 | C-X-C motif chemokine ligand 10 |
| CXCL11 | C-X-C motif chemokine ligand 11 |
| CXCL6 | C-X-C motif chemokine ligand 6 |
| CXCL9 | C-X-C motif chemokine ligand 9 |
| CXCR6 | C-X-C motif chemokine receptor 6 |
| CYBB | cytochrome b-245 beta chain |
| DCBLD2 | discoidin, CUB and LCCL domain containing 2 |
| EBI3 | Epstein-Barr virus induced 3 |
| EDN1 | endothelin 1 |
| EIF2AK2 | eukaryotic translation initiation factor 2 alpha kinase 2 |
| EMP3 | epithelial membrane protein 3 |
| ADGRE1 | adhesion G protein-coupled receptor E1 |
| EREG | epiregulin |
| F3 | coagulation factor III, tissue factor |

| | |
|---------|---|
| FFAR2 | free fatty acid receptor 2 |
| FPR1 | formyl peptide receptor 1 |
| FZD5 | frizzled class receptor 5 |
| GABBR1 | gamma-aminobutyric acid type B receptor subunit 1 |
| GCH1 | GTP cyclohydrolase 1 |
| GNA15 | G protein subunit alpha 15 |
| GNAI3 | G protein subunit alpha i3 |
| GP1BA | glycoprotein Ib platelet subunit alpha |
| GPC3 | glypican 3 |
| GPR132 | G protein-coupled receptor 132 |
| GPR183 | G protein-coupled receptor 183 |
| HAS2 | hyaluronan synthase 2 |
| HBEGF | heparin binding EGF like growth factor |
| HIF1A | hypoxia inducible factor 1 subunit alpha |
| HPN | hepsin |
| HRH1 | histamine receptor H1 |
| ICAM1 | intercellular adhesion molecule 1 |
| ICAM4 | intercellular adhesion molecule 4 |
| ICOSLG | inducible T cell costimulator ligand |
| IFITM1 | interferon induced transmembrane protein... |
| IFNAR1 | interferon alpha and beta receptor subun... |
| IFNGR2 | interferon gamma receptor 2 |
| IL10 | interleukin 10 |
| IL10RA | interleukin 10 receptor subunit alpha |
| IL12B | interleukin 12B |
| IL15 | interleukin 15 |
| IL15RA | interleukin 15 receptor subunit alpha |
| IL18 | interleukin 18 |
| IL18R1 | interleukin 18 receptor 1 |
| IL18RAP | interleukin 18 receptor accessory protein |
| IL1A | interleukin 1 alpha |

| | |
|--------|---|
| IL1B | interleukin 1 beta |
| IL1R1 | interleukin 1 receptor type 1 |
| IL2RB | interleukin 2 receptor subunit beta |
| IL4R | interleukin 4 receptor |
| IL6 | interleukin 6 |
| IL7R | interleukin 7 receptor |
| CXCL8 | C-X-C motif chemokine ligand 8 |
| INHBA | inhibin subunit beta A |
| IRAK2 | interleukin 1 receptor associated kinase 2 |
| IRF1 | interferon regulatory factor 1 |
| IRF7 | interferon regulatory factor 7 |
| ITGA5 | integrin subunit alpha 5 |
| ITGB3 | integrin subunit beta 3 |
| ITGB8 | integrin subunit beta 8 |
| KCNA3 | potassium voltage-gated channel subfamily A member 3 |
| KCNJ2 | potassium inwardly rectifying channel subfamily J member 2 |
| KCNMB2 | potassium calcium-activated channel subfamily M regulatory beta subunit 2 |
| KIF1B | kinesin family member 1B |
| KLF6 | Kruppel like factor 6 |
| LAMP3 | lysosomal associated membrane protein 3 |
| LCK | LCK proto-oncogene, Src family tyrosine kinase |
| LCP2 | lymphocyte cytosolic protein 2 |
| LDLR | low density lipoprotein receptor |
| LIF | LIF interleukin 6 family cytokine |
| LPAR1 | lysophosphatidic acid receptor 1 |
| LTA | lymphotoxin alpha |
| LY6E | lymphocyte antigen 6 family member E |
| LYN | LYN proto-oncogene, Src family tyrosine kinase |

| | |
|--------|--|
| MARCO | macrophage receptor with collagenous structure |
| MEFV | MEFV innate immunity regulator, pyrin |
| MEP1A | meprin A subunit alpha |
| MET | MET proto-oncogene, receptor tyrosine kinase |
| MMP14 | matrix metallopeptidase 14 |
| MSR1 | macrophage scavenger receptor 1 |
| MXD1 | MAX dimerization protein 1 |
| MYC | MYC proto-oncogene, bHLH transcription factor |
| NAMPT | nicotinamide phosphoribosyltransferase |
| NDP | norrin cystine knot growth factor NDP |
| NFKB1 | nuclear factor kappa B subunit 1 |
| NFKBIA | NFKB inhibitor alpha |
| NLRP3 | NLR family pyrin domain containing 3 |
| NMI | N-myc and STAT interactor |
| NMUR1 | neuromedin U receptor 1 |
| | nucleotide binding oligomerization domain containing |
| NOD2 | 2 |
| NPFFR2 | neuropeptide FF receptor 2 |
| OLR1 | oxidized low density lipoprotein receptor 1 |
| OPRK1 | opioid receptor kappa 1 |
| OSM | oncostatin M |
| OSMR | oncostatin M receptor |
| P2RX4 | purinergic receptor P2X 4 |
| P2RX7 | purinergic receptor P2X 7 |
| P2RY2 | purinergic receptor P2Y2 |
| PCDH7 | protocadherin 7 |
| PDE4B | phosphodiesterase 4B |
| PDPN | podoplanin |
| PIK3R5 | phosphoinositide-3-kinase regulatory subunit 5 |
| PLAUR | plasminogen activator, urokinase receptor |
| PROK2 | prokineticin 2 |

| | |
|----------|--|
| PSEN1 | presenilin 1 |
| PTAFR | platelet activating factor receptor |
| PTGER2 | prostaglandin E receptor 2 |
| PTGER4 | prostaglandin E receptor 4 |
| PTGIR | prostaglandin I2 receptor |
| PTPRE | protein tyrosine phosphatase receptor type E |
| PVR | PVR cell adhesion molecule |
| RAF1 | Raf-1 proto-oncogene, serine/threonine kinase |
| RASGRP1 | RAS guanyl releasing protein 1 |
| RELA | RELA proto-oncogene, NF- κ B subunit |
| RGS1 | regulator of G protein signaling 1 |
| RGS16 | regulator of G protein signaling 16 |
| RHOG | ras homolog family member G |
| RIPK2 | receptor interacting serine/threonine kinase 2 |
| RNF144B | ring finger protein 144B |
| ROS1 | ROS proto-oncogene 1, receptor tyrosine kinase |
| RTP4 | receptor transporter protein 4 |
| SCARF1 | scavenger receptor class F member 1 |
| SCN1B | sodium voltage-gated channel beta subunit 1 |
| SELE | selectin E |
| SELL | selectin L |
| SELENOS | selenoprotein S |
| SEMA4D | semaphorin 4D |
| SERPINE1 | serpin family E member 1 |
| SGMS2 | sphingomyelin synthase 2 |
| | signaling lymphocytic activation molecule family |
| SLAMF1 | member 1 |
| SLC11A2 | solute carrier family 11 member 2 |
| SLC1A2 | solute carrier family 1 member 2 |
| SLC28A2 | solute carrier family 28 member 2 |
| SLC31A1 | solute carrier family 31 member 1 |

| | |
|----------|------------------------------------|
| SLC31A2 | solute carrier family 31 member 2 |
| SLC4A4 | solute carrier family 4 member 4 |
| SLC7A1 | solute carrier family 7 member 1 |
| SLC7A2 | solute carrier family 7 member 2 |
| SPHK1 | sphingosine kinase 1 |
| SRI | sorcin |
| STAB1 | stabilin 1 |
| TACR1 | tachykinin receptor 1 |
| TACR3 | tachykinin receptor 3 |
| TAPBP | TAP binding protein |
| TIMP1 | TIMP metallopeptidase inhibitor 1 |
| TLR1 | toll like receptor 1 |
| TLR2 | toll like receptor 2 |
| TLR3 | toll like receptor 3 |
| TNFAIP6 | TNF alpha induced protein 6 |
| TNFRSF1B | TNF receptor superfamily member 1B |
| TNFRSF9 | TNF receptor superfamily member 9 |
| TNFSF10 | TNF superfamily member 10 |
| TNFSF15 | TNF superfamily member 15 |
| TNFSF9 | TNF superfamily member 9 |
| TPBG | trophoblast glycoprotein |
| VIP | vasoactive intestinal peptide |

Supplementary Table 2 Overall survival associated gene list in GC from the training set (GSE66229)

| Gene | HR | HR.95L | HR.95H | P value |
|----------|-------------|-------------|-------------|-------------|
| MRPS17 | 380.5203578 | 15.90440173 | 9104.130112 | 0.000244603 |
| AASS | 118.4141649 | 4.159946922 | 3370.695517 | 0.005201202 |
| PDE2A | 33.86671769 | 2.709647057 | 423.2855951 | 0.006265951 |
| GUF1 | 0.015257836 | 0.000739407 | 0.314849013 | 0.006763943 |
| CASP3 | 0.049203673 | 0.005545353 | 0.436582048 | 0.006849704 |
| PDK4 | 1.330150772 | 1.080475553 | 1.637520692 | 0.00715182 |
| PDK3 | 29.21284299 | 2.236244673 | 381.617542 | 0.0100596 |
| ECHDC3 | 25.95955399 | 2.172760949 | 310.1576561 | 0.010078968 |
| HPDL | 22.96049052 | 1.945319606 | 271.0012912 | 0.012834165 |
| ALDH18A1 | 0.423360734 | 0.21092818 | 0.849740946 | 0.01560535 |
| CYB5B | 0.425448465 | 0.212474856 | 0.851895607 | 0.015846025 |
| MRPS35 | 0.370566381 | 0.158957246 | 0.863876581 | 0.021516127 |
| NDUFC2 | 2.001462483 | 1.086640963 | 3.686454135 | 0.02597423 |
| MOCS1 | 13.60276749 | 1.292773976 | 143.130421 | 0.029718873 |
| ACAA2 | 1.620742259 | 1.045661414 | 2.512099458 | 0.030799365 |
| CKMT2 | 61.42123971 | 1.400911889 | 2692.937877 | 0.03278256 |
| LIPT2 | 94.79515826 | 1.448133653 | 6205.312619 | 0.032881852 |
| ETHE1 | 0.406807751 | 0.176758111 | 0.936265643 | 0.034445915 |

| | | | | |
|------------|-------------|-------------|-------------|-------------|
| IDE | 0.120022101 | 0.015868024 | 0.90781969 | 0.040010265 |
| ACOT7 | 0.249370751 | 0.064906353 | 0.958084504 | 0.043143812 |
| ADHFE1 | 47.1564084 | 1.059649119 | 2098.550183 | 0.046603898 |
| GATC | 77.98882496 | 1.033534047 | 5884.911909 | 0.048277648 |
| PAICS | 0.571278486 | 0.327463307 | 0.996628024 | 0.048625595 |
| MPV17 | 7.433076974 | 0.984357716 | 56.12861304 | 0.051813558 |
| BID | 0.097342601 | 0.00901763 | 1.050784071 | 0.054964889 |
| PDE12 | 0.058673741 | 0.003149516 | 1.093059454 | 0.057389139 |
| ACSM5 | 44.67691652 | 0.834490197 | 2391.911705 | 0.061362955 |
| ABHD11 | 0.324250435 | 0.098147941 | 1.07122313 | 0.064729095 |
| PHB | 0.609636901 | 0.359660187 | 1.033356387 | 0.06604837 |
| C1QBP | 0.566837776 | 0.308524827 | 1.041423694 | 0.06737273 |
| ACADVL | 0.675175355 | 0.443037556 | 1.028946088 | 0.067666797 |
| SHMT2 | 0.593460205 | 0.338483609 | 1.040508333 | 0.068553118 |
| SFXN1 | 0.193668108 | 0.031559564 | 1.188461796 | 0.076156044 |
| SLC25A51P4 | 37.14724737 | 0.673688835 | 2048.301704 | 0.07724487 |
| CCDC58 | 34.02884042 | 0.674509851 | 1716.745838 | 0.077878199 |
| HSPD1 | 0.893173772 | 0.785833221 | 1.015176459 | 0.083739255 |
| IDH3A | 0.345237613 | 0.102347307 | 1.164554427 | 0.086456257 |
| NT5DC2 | 2.041111778 | 0.900920555 | 4.624311505 | 0.087281782 |

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|----------|-------------|-------------|-------------|-------------|
| POLQ | 0.043372599 | 0.001179119 | 1.595412867 | 0.088008472 |
| SLC25A24 | 0.329316936 | 0.09001943 | 1.204735954 | 0.093250479 |
| ACADL | 29.13464189 | 0.529028356 | 1604.502572 | 0.099218795 |
| AGPAT5 | 0.345126106 | 0.096789002 | 1.230635988 | 0.100998427 |
| SLC25A27 | 28.33684601 | 0.509797948 | 1575.088415 | 0.102825326 |
| BCL2L2 | 4.934029651 | 0.663649123 | 36.68301176 | 0.118901032 |
| PNPO | 0.207320092 | 0.028624898 | 1.501546684 | 0.119333065 |
| AMT | 20.74197444 | 0.45157694 | 952.7269119 | 0.12046497 |
| TMEM177 | 35.27495437 | 0.379881108 | 3275.557488 | 0.123246327 |
| FXN | 30.87363054 | 0.389695199 | 2445.965629 | 0.124166156 |
| ALDH5A1 | 0.221099411 | 0.032243792 | 1.516104249 | 0.124458788 |
| CKMT1A | 0.261274159 | 0.045812614 | 1.490074038 | 0.13079329 |
| DNAJC15 | 0.457502022 | 0.165872755 | 1.261859429 | 0.130878843 |
| ACCS | 23.81312973 | 0.372599841 | 1521.914625 | 0.135033317 |
| MTCH2 | 0.408413012 | 0.126059714 | 1.323191866 | 0.135427127 |
| PDF | 41.87395738 | 0.310803774 | 5641.592708 | 0.135477577 |
| CHCHD2 | 1.33603741 | 0.90685733 | 1.968331625 | 0.14280702 |
| LAP3 | 0.725750168 | 0.471157004 | 1.117914627 | 0.145871652 |
| CPS1 | 0.894221157 | 0.766999856 | 1.042544496 | 0.153333086 |
| LRPPRC | 0.735301698 | 0.476892845 | 1.133731807 | 0.163979787 |

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|----------|-------------|-------------|-------------|-------------|
| FAM136A | 0.281981748 | 0.046820405 | 1.69827037 | 0.167017768 |
| BNIP3 | 3.479356022 | 0.591471626 | 20.46745406 | 0.167859416 |
| CLPB | 8.06948577 | 0.394300018 | 165.1448076 | 0.175185734 |
| ROMO1 | 2.68642569 | 0.636572399 | 11.33709692 | 0.178572378 |
| MTHFD2 | 0.554114907 | 0.232148964 | 1.322613402 | 0.183503371 |
| ME3 | 16.20552357 | 0.219488949 | 1196.502124 | 0.204424594 |
| PXMP2 | 10.00777061 | 0.260196257 | 384.9228023 | 0.216102246 |
| IFI27 | 0.881899297 | 0.719728528 | 1.08061073 | 0.225436642 |
| YARS2 | 3.836756766 | 0.435584385 | 33.79529432 | 0.225779924 |
| C2orf69 | 0.064044467 | 0.000748292 | 5.481404507 | 0.226073109 |
| ALDH1B1 | 1.265431587 | 0.86436003 | 1.85260429 | 0.226103059 |
| SOD2 | 0.899521098 | 0.757036871 | 1.068822718 | 0.228778901 |
| ATAD1 | 0.297141811 | 0.040672028 | 2.170859434 | 0.23168518 |
| RSAD1 | 10.43041179 | 0.212152239 | 512.8085882 | 0.238074836 |
| OCIAD2 | 0.582014591 | 0.236439844 | 1.432673014 | 0.238927085 |
| NLN | 13.25858724 | 0.178342861 | 985.6864155 | 0.239707189 |
| DMPK | 1.536431944 | 0.743351814 | 3.175647217 | 0.246320768 |
| SLC25A15 | 0.144563352 | 0.005124876 | 4.077867332 | 0.25635216 |
| DARS2 | 1.903473107 | 0.623608173 | 5.810074377 | 0.258246703 |
| FKBP10 | 1.02349367 | 0.982992509 | 1.065663557 | 0.259630126 |

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|----------|-------------|-------------|-------------|-------------|
| BAK1 | 0.361684846 | 0.060333014 | 2.168231283 | 0.265712417 |
| MTHFD1L | 0.247516985 | 0.020588767 | 2.975635056 | 0.271114235 |
| LYPLA1 | 0.643919525 | 0.292088007 | 1.419545972 | 0.275114759 |
| PGAM5 | 0.324416979 | 0.040497586 | 2.598830875 | 0.288981279 |
| MRPL13 | 0.322842344 | 0.039432576 | 2.643174504 | 0.291924886 |
| OPA1 | 0.530077133 | 0.159695206 | 1.759487801 | 0.29977203 |
| TOMM5 | 0.561431237 | 0.18837511 | 1.673283873 | 0.30017971 |
| MTX1 | 2.231382543 | 0.487432872 | 10.21487949 | 0.301085984 |
| PRDX3 | 0.752244367 | 0.437311516 | 1.293978246 | 0.303614319 |
| YME1L1 | 0.735861349 | 0.410119185 | 1.3203282 | 0.30380099 |
| CHCHD10 | 0.463285447 | 0.104993728 | 2.044249775 | 0.309685283 |
| MRPL19 | 0.254154497 | 0.017304305 | 3.732857764 | 0.317707445 |
| ABCD1 | 0.448048979 | 0.088914079 | 2.257773901 | 0.330554643 |
| DLAT | 0.472166107 | 0.099563354 | 2.239185634 | 0.34469899 |
| GPX4 | 1.366357572 | 0.715065616 | 2.610855526 | 0.344749978 |
| MRPL3 | 0.610791081 | 0.215369317 | 1.732213996 | 0.353947737 |
| SLC25A22 | 0.397009345 | 0.056165074 | 2.806306649 | 0.354536257 |
| PRELID1 | 0.70043558 | 0.323125504 | 1.518326458 | 0.367051331 |
| LDHD | 3.828734679 | 0.199270128 | 73.56450961 | 0.373318783 |
| CASP8 | 0.332144154 | 0.028898292 | 3.817517564 | 0.376319186 |

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|----------|-------------|-------------|-------------|-------------|
| ARMC10 | 0.291121036 | 0.018767737 | 4.515805916 | 0.377671054 |
| FABP1 | 0.856062963 | 0.597870552 | 1.225756635 | 0.396136483 |
| BNIP3L | 1.569366532 | 0.549364019 | 4.483204626 | 0.400064144 |
| RFK | 0.595345913 | 0.169945495 | 2.08559078 | 0.417484789 |
| MRPL17 | 0.458381999 | 0.066589677 | 3.155354784 | 0.428062978 |
| PCCA | 1.606482408 | 0.479897906 | 5.377780763 | 0.441899714 |
| SLC25A40 | 4.075367986 | 0.113040951 | 146.9257298 | 0.442417746 |
| COQ2 | 6.127306613 | 0.057785885 | 649.706871 | 0.446169384 |
| TOMM40 | 0.674629592 | 0.240163461 | 1.895063816 | 0.455127456 |
| MRPL30 | 0.298112997 | 0.011735677 | 7.572750788 | 0.463374913 |
| MRPL14 | 1.590617775 | 0.455893957 | 5.549678534 | 0.466642105 |
| MRPL42 | 0.359595433 | 0.022840223 | 5.661454118 | 0.467079368 |
| SPTLC2 | 0.707830772 | 0.277579476 | 1.804976393 | 0.469373216 |
| SLC25A43 | 2.589463986 | 0.194894472 | 34.40489436 | 0.470965593 |
| PDP1 | 0.6343753 | 0.181040383 | 2.222885386 | 0.476851722 |
| TFAM | 0.355216035 | 0.018529082 | 6.809750779 | 0.492158573 |
| OPA3 | 2.894436672 | 0.131539971 | 63.68987002 | 0.50040619 |
| ALDH1L1 | 3.127408357 | 0.107751997 | 90.77031815 | 0.507008981 |
| C15orf48 | 0.879072847 | 0.598177151 | 1.291873268 | 0.511711388 |
| GPD2 | 0.591613 | 0.120661745 | 2.900720051 | 0.517571004 |

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|----------|-------------|-------------|-------------|-------------|
| NDUFAF4 | 3.647634018 | 0.06897196 | 192.9078706 | 0.522706521 |
| ACACB | 1.650052357 | 0.335845963 | 8.106909367 | 0.537501824 |
| RECQL4 | 0.60223534 | 0.117761978 | 3.079834536 | 0.542510687 |
| LACTB2 | 1.367962895 | 0.490980657 | 3.811397566 | 0.548963398 |
| AKR1B10 | 1.044656069 | 0.900146247 | 1.212365554 | 0.565213906 |
| GOLPH3 | 0.82466831 | 0.421912459 | 1.611893194 | 0.572909818 |
| SLC25A32 | 0.364876931 | 0.010312458 | 12.9101302 | 0.579512204 |
| TOMM34 | 0.729239425 | 0.238355403 | 2.231080703 | 0.579970415 |
| CKMT1B | 0.835522385 | 0.441904783 | 1.579746773 | 0.580304793 |
| ACLY | 1.092661496 | 0.795934051 | 1.500010136 | 0.583587225 |
| D2HGDH | 0.348775315 | 0.007906673 | 15.38500708 | 0.585622601 |
| CPT1A | 1.112480523 | 0.757008531 | 1.63487314 | 0.587350526 |
| MDH2 | 0.910411085 | 0.647416123 | 1.280240505 | 0.58945891 |
| VDAC1 | 0.92887813 | 0.704375619 | 1.224935329 | 0.601211981 |
| MAOA | 0.893700488 | 0.5851967 | 1.364841196 | 0.602915517 |
| MRPL48 | 2.079036716 | 0.116787152 | 37.01086616 | 0.618334245 |
| MARS2 | 0.312541846 | 0.00261257 | 37.38938703 | 0.633762445 |
| MRPL47 | 0.743837704 | 0.211678817 | 2.613839862 | 0.644425388 |
| BIK | 0.533973729 | 0.034059378 | 8.371495981 | 0.655020272 |
| UCP2 | 1.104334219 | 0.713876225 | 1.70835507 | 0.655717449 |

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|---------|-------------|-------------|-------------|-------------|
| GRPEL2 | 0.402039953 | 0.006590579 | 24.52533031 | 0.663971997 |
| BBC3 | 0.496904913 | 0.017101503 | 14.43817529 | 0.684130903 |
| AGMAT | 0.659030592 | 0.08790175 | 4.940986041 | 0.684972824 |
| PXMP4 | 1.775076802 | 0.108143906 | 29.13615538 | 0.687720262 |
| BCL2A1 | 1.863235111 | 0.085680666 | 40.51841855 | 0.692044083 |
| METTL8 | 2.242408219 | 0.035732487 | 140.7233304 | 0.702178623 |
| LDHB | 1.026320586 | 0.895246658 | 1.176585175 | 0.709394181 |
| MRPS30 | 0.598553255 | 0.030022943 | 11.9330738 | 0.736761642 |
| GLS | 0.923523329 | 0.580570876 | 1.469063253 | 0.736923959 |
| CYCS | 0.944346898 | 0.671452163 | 1.328152791 | 0.742099923 |
| SLC25A4 | 1.294499995 | 0.252327242 | 6.641099171 | 0.757018003 |
| GTPBP10 | 1.306142145 | 0.221620925 | 7.697862014 | 0.767919426 |
| NUDT5 | 1.323725314 | 0.198066108 | 8.846787189 | 0.772304971 |
| DNA2 | 0.543696231 | 0.006298376 | 46.93362099 | 0.78877492 |
| RHOT2 | 1.28861507 | 0.190842547 | 8.701040855 | 0.794695418 |
| GPT2 | 0.884161012 | 0.328990854 | 2.376177592 | 0.807166226 |
| ACOT13 | 1.311368879 | 0.147298056 | 11.6748882 | 0.808004385 |
| MRPS10 | 0.844789051 | 0.204331073 | 3.492706858 | 0.815829041 |
| PYCR1 | 0.949908163 | 0.605172372 | 1.491022325 | 0.823220479 |
| PMAIP1 | 0.84088117 | 0.169516167 | 4.17117232 | 0.832032515 |

| | | | | |
|----------|-------------|-------------|-------------|-------------|
| ACSF2 | 1.229083518 | 0.147282056 | 10.25682512 | 0.848880272 |
| CHDH | 0.835210781 | 0.128182258 | 5.442071776 | 0.850635094 |
| TIMM8A | 1.548453356 | 0.011664296 | 205.5595752 | 0.860834788 |
| PNPT1 | 0.798779832 | 0.06379983 | 10.00079807 | 0.861682403 |
| NUDT8 | 1.335247814 | 0.038138967 | 46.74711592 | 0.873378024 |
| CMPK2 | 1.168817952 | 0.148286794 | 9.212792109 | 0.882274062 |
| ABCA9 | 0.665448511 | 0.001158284 | 382.3083532 | 0.900013764 |
| ACSM3 | 1.085994588 | 0.230232943 | 5.122569484 | 0.916980556 |
| HSPE1 | 1.021273661 | 0.681289618 | 1.530919984 | 0.918821726 |
| SLC25A39 | 0.972489479 | 0.56468837 | 1.674792395 | 0.919881836 |
| PTRH2 | 0.826186456 | 0.016836058 | 40.5429858 | 0.923424948 |
| MRPL15 | 0.964594767 | 0.273589106 | 3.400877605 | 0.955287003 |
| ECHDC2 | 1.068050481 | 0.073766279 | 15.46413684 | 0.961494037 |
| PDSS1 | 1.102528202 | 0.019020957 | 63.9067968 | 0.962416536 |
| DTYMK | 0.961343121 | 0.100473081 | 9.198290564 | 0.972706827 |
