

Supplementary Table 1 812 PMRGs obtained from the GeneCards database.

| Gene Symbol | Description | Category | Gifts | GC Id | Relevance score | GeneCards Link |
|-------------|--|----------------|-------|-------------|-----------------|---|
| PCCB | Propionyl-CoA Carboxylase Subunit Beta | Protein Coding | 53 | GC03P136250 | 61.11257935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCB |
| PCCA | Propionyl-CoA Carboxylase Subunit Alpha | Protein Coding | 53 | GC13P100089 | 56.12726974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCA |
| MMACHC | Metabolism Of Cobalamin Associated C | Protein Coding | 50 | GC01P045500 | 47.25754929 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMACHC |
| MTR | 5-Methyltetrahydrofolate-Homocysteine Methyltransferase | Protein Coding | 54 | GC01P236795 | 39.33602524 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTR |
| CYP2D6 | Cytochrome P450 Family 2 Subfamily D Member 6 | Protein Coding | 53 | GC22M042126 | 39.22632217 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2D6 |
| MMADHC | Metabolism Of Cobalamin Associated D | Protein Coding | 49 | GC02M149569 | 35.76113892 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMADHC |
| CYP3A4 | Cytochrome P450 Family 3 Subfamily A Member 4 | Protein Coding | 56 | GC07M099759 | 35.6474762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A4 |
| CYP2C19 | Cytochrome P450 Family 2 Subfamily C Member 19 | Protein Coding | 52 | GC10P094762 | 34.64389801 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C19 |
| INS | Insulin | Protein Coding | 55 | GC11M002159 | 33.82258224 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INS |
| MMUT | Methylmalonyl-CoA Mutase | Protein Coding | 52 | GC06M049430 | 31.02311325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMUT |
| ABCA3 | ATP Binding Cassette Subfamily A Member 3 | Protein Coding | 55 | GC16M002275 | 30.44045639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCA3 |
| MMAA | Metabolism Of Cobalamin Associated A | Protein Coding | 47 | GC04P145610 | 30.1062355 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAA |
| UQCRFS1 | Ubiquinol-Cytochrome C Reductase, Rieske Iron-Sulfur Polypeptide 1 | Protein Coding | 53 | GC19M029205 | 30.09693146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UQCRFS1 |
| ACADM | Acyl-CoA Dehydrogenase Medium Chain | Protein Coding | 52 | GC01P075724 | 29.86544609 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADM |

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|--------|---|----------------|----|-------------|-------------|---|
| PPARG | Peroxisome Proliferator Activated Receptor Gamma | Protein Coding | 60 | GC03P012287 | 29.00304985 | ne=ACADM https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARG |
| MTRR | 5-Methyltetrahydrofolate-Homocysteine Methyltransferase Reductase | Protein Coding | 50 | GC05P007851 | 28.36356544 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRR |
| LEP | Leptin | Protein Coding | 53 | GC07P128241 | 28.21476173 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEP |
| MMAB | Metabolism Of Cobalamin Associated B | Protein Coding | 51 | GC12M109553 | 28.03660583 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAB |
| OTC | Ornithine Transcarbamylase | Protein Coding | 52 | GC0XP038353 | 26.92333984 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OTC |
| CYP2C9 | Cytochrome P450 Family 2 Subfamily C Member 9 | Protein Coding | 53 | GC10P094938 | 25.8538208 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C9 |
| LDLR | Low Density Lipoprotein Receptor | Protein Coding | 58 | GC19P011091 | 25.81306458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDLR |
| ALB | Albumin | Protein Coding | 56 | GC04P073397 | 25.16794777 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALB |
| CYP2C8 | Cytochrome P450 Family 2 Subfamily C Member 8 | Protein Coding | 52 | GC10M095038 | 25.04213715 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C8 |
| APOE | Apolipoprotein E | Protein Coding | 57 | GC19P073055 | 24.89061928 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOE |
| ADIPOQ | Adiponectin, C1Q And Collagen Domain Containing | Protein Coding | 52 | GC03P186842 | 24.75322914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADIPOQ |
| CYP1A2 | Cytochrome P450 Family 1 Subfamily A Member 2 | Protein Coding | 52 | GC15P074748 | 24.42164421 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A2 |
| IL6 | Interleukin 6 | Protein Coding | 58 | GC07P022725 | 24.29815102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6 |
| LIPC | Lipase C, Hepatic Type | Protein Coding | 52 | GC15P058410 | 24.07993889 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPC |
| LPL | Lipoprotein Lipase | Protein Coding | 56 | GC08P019901 | 23.63115692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPL |

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|--------|--|----------------|----|-------------|-------------|---|
| APOB | Apolipoprotein B | Protein Coding | 53 | GC02M020956 | 23.32738113 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOB |
| UGT1A1 | UDP Glucuronosyltransferase Family 1 Member A1 | Protein Coding | 57 | GC02P233760 | 23.1049614 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A1 |
| CYP1A1 | Cytochrome P450 Family 1 Subfamily A Member 1 | Protein Coding | 55 | GC15M074719 | 23.08771324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A1 |
| GCDH | Glutaryl-CoA Dehydrogenase | Protein Coding | 52 | GC19P012891 | 23.0321064 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCDH |
| PPARA | Peroxisome Proliferator Activated Receptor Alpha | Protein Coding | 51 | GC22P046150 | 22.84316635 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARA |
| CYP2B6 | Cytochrome P450 Family 2 Subfamily B Member 6 | Protein Coding | 52 | GC19P040991 | 22.70144463 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2B6 |
| IGF1 | Insulin Like Growth Factor 1 | Protein Coding | 55 | GC12M102395 | 22.66413879 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1 |
| CYP2A6 | Cytochrome P450 Family 2 Subfamily A Member 6 | Protein Coding | 53 | GC19M040843 | 22.56680679 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2A6 |
| TPMT | Thiopurine S-Methyltransferase | Protein Coding | 53 | GC06M018128 | 22.38929176 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPMT |
| CBS | Cystathionine Beta-Synthase | Protein Coding | 56 | GC21M043053 | 22.33657455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBS |
| TNF | Tumor Necrosis Factor | Protein Coding | 59 | GC06P092154 | 21.97315598 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNF |
| HMGCL | 3-Hydroxy-3-Methylglutaryl-CoA Lyase | Protein Coding | 51 | GC01M023801 | 21.91726685 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCL |
| CYP2E1 | Cytochrome P450 Family 2 Subfamily E Member 1 | Protein Coding | 52 | GC10P133520 | 21.77449989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2E1 |
| CSF2RA | Colony Stimulating Factor 2 Receptor Subunit Alpha | Protein Coding | 52 | GC0XP001845 | 21.42407227 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2RA |
| PAH | Phenylalanine Hydroxylase | Protein Coding | 55 | GC12M102836 | 21.21108818 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAH |

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|--------|---|----------------|----|-------------|-------------|---|
| CYP3A5 | Cytochrome P450 Family 3 Subfamily A Member 5 | Protein Coding | 51 | GC07M099648 | 21.14499283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A5 |
| BTD | Biotinidase | Protein Coding | 52 | GC03P017386 | 21.06881714 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTD |
| GHRL | Ghrelin And Obestatin Prepropeptide | Protein Coding | 49 | GC03M010285 | 20.99878693 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRL |
| SFTPB | Surfactant Protein B | Protein Coding | 51 | GC02M085657 | 20.57275009 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPB |
| ACADVL | Acyl-CoA Dehydrogenase Very Long Chain | Protein Coding | 51 | GC17P007219 | 20.4634285 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADVL |
| CPT2 | Carnitine Palmitoyltransferase 2 | Protein Coding | 56 | GC01P053196 | 20.11322403 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT2 |
| HADHA | Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit Alpha | Protein Coding | 52 | GC02M026190 | 20.02347183 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHA |
| ETFDH | Electron Transfer Flavoprotein Dehydrogenase | Protein Coding | 52 | GC04P158672 | 19.88984299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETFDH |
| ACADS | Acyl-CoA Dehydrogenase Short Chain | Protein Coding | 52 | GC12P126959 | 19.86980438 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADS |
| PC | Pyruvate Carboxylase | Protein Coding | 53 | GC11M066848 | 19.85100937 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PC |
| ADSL | Adenylosuccinate Lyase | Protein Coding | 54 | GC22P040346 | 19.84980774 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADSL |
| CRP | C-Reactive Protein | Protein Coding | 53 | GC01M159729 | 19.67492294 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRP |
| GGT1 | Gamma-Glutamyltransferase 1 | Protein Coding | 56 | GC22P024583 | 19.48277092 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGT1 |
| NR3C1 | Nuclear Receptor Subfamily 3 Group C Member 1 | Protein Coding | 56 | GC05M143277 | 19.25010681 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C1 |
| BGLAP | Bone Gamma-Carboxyglutamate Protein | Protein Coding | 46 | GC01P156242 | 18.94005585 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BGLAP |

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| INSR | Insulin Receptor | Protein Coding | 60 | GC19M007112 | 18.79404449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSR |
| CPT1A | Carnitine Palmitoyltransferase 1A | Protein Coding | 55 | GC11M068754 | 18.33993149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1A |
| APOA1 | Apolipoprotein A1 | Protein Coding | 57 | GC11M116835 | 18.12685776 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA1 |
| BCKDHB | Branched Chain Keto Acid Dehydrogenase E1 Subunit Beta | Protein Coding | 50 | GC06P080106 | 18.03951263 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHB |
| AKT1 | AKT Serine/Threonine Kinase 1 | Protein Coding | 61 | GC14M104769 | 17.96221733 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT1 |
| TP53 | Tumor Protein P53 | Protein Coding | 60 | GC17M007661 | 17.83651924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53 |
| CES1 | Carboxylesterase 1 | Protein Coding | 55 | GC16M055836 | 17.61368179 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CES1 |
| HNF4A | Hepatocyte Nuclear Factor 4 Alpha | Protein Coding | 56 | GC20P044355 | 17.52772713 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF4A |
| ABCD4 | ATP Binding Cassette Subfamily D Member 4 | Protein Coding | 50 | GC14M074285 | 17.33675766 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD4 |
| UGT1A6 | UDP Glucuronosyltransferase Family 1 Member A6 | Protein Coding | 48 | GC02P233691 | 17.17436981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A6 |
| ASS1 | Argininosuccinate Synthase 1 | Protein Coding | 56 | GC09P130444 | 17.09732819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASS1 |
| MCEE | Methylmalonyl-CoA Epimerase | Protein Coding | 47 | GC02M071110 | 17.0945816 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCEE |
| HLCS | Holocarboxylase Synthetase | Protein Coding | 48 | GC21M036750 | 17.08519173 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLCS |
| POMC | Proopiomelanocortin | Protein Coding | 55 | GC02M025160 | 16.98484993 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMC |
| ACE | Angiotensin I Converting Enzyme | Protein Coding | 59 | GC17P063477 | 16.94721031 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE |

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| IVD | Isovaleryl-CoA Dehydrogenase | Protein Coding | 51 | GC15P040405 | 16.93725967 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IVD |
| HIBCH | 3-Hydroxyisobutyryl-CoA Hydrolase | Protein Coding | 50 | GC02M190189 | 16.7645874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIBCH |
| NAGS | N-Acetylglutamate Synthase | Protein Coding | 47 | GC17P044004 | 16.73843575 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAGS |
| LMBRD1 | LMBR1 Domain Containing 1 | Protein Coding | 47 | GC06M072251 | 16.69300079 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMBRD1 |
| SLC2A1 | Solute Carrier Family 2 Member 1 | Protein Coding | 60 | GC01M042925 | 16.59392548 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A1 |
| CETP | Cholesteryl Ester Transfer Protein | Protein Coding | 53 | GC16P056961 | 16.59146118 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CETP |
| CPS1 | Carbamoyl-Phosphate Synthase 1 | Protein Coding | 55 | GC02P210477 | 16.44989777 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPS1 |
| CYP1B1 | Cytochrome P450 Family 1 Subfamily B Member 1 | Protein Coding | 54 | GC02M038066 | 16.42423248 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1B1 |
| SLC22A5 | Solute Carrier Family 22 Member 5 | Protein Coding | 53 | GC05P132369 | 16.36189461 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A5 |
| GPT | Glutamic--Pyruvic Transaminase | Protein Coding | 48 | GC08P144502 | 16.35798264 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPT |
| GLDC | Glycine Decarboxylase | Protein Coding | 53 | GC09M006522 | 16.15870285 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLDC |
| IL1B | Interleukin 1 Beta | Protein Coding | 54 | GC02M112829 | 16.14551735 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1B |
| VDR | Vitamin D Receptor | Protein Coding | 56 | GC12M047841 | 16.03931808 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDR |
| FH | Fumarate Hydratase | Protein Coding | 53 | GC01M241499 | 15.98605347 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FH |
| PRODH | Proline Dehydrogenase 1 | Protein Coding | 52 | GC22M018912 | 15.97478485 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRODH |

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| CYP7A1 | Cytochrome P450 Family 7 Subfamily A Member 1 | Protein Coding | 49 | GC08M058476 | 15.92755032 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP7A1 |
| HSD11B1 | Hydroxysteroid 11-Beta Dehydrogenase 1 | Protein Coding | 58 | GC01P209686 | 15.90985107 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B1 |
| ENPP1 | Ectonucleotide Pyrophosphatase/Phosphodiesterase 1 | Protein Coding | 56 | GC06P131808 | 15.89481449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP1 |
| HSD11B2 | Hydroxysteroid 11-Beta Dehydrogenase 2 | Protein Coding | 52 | GC16P067433 | 15.8716507 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B2 |
| CYP27B1 | Cytochrome P450 Family 27 Subfamily B Member 1 | Protein Coding | 52 | GC12M057790 | 15.85970306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP27B1 |
| XDH | Xanthine Dehydrogenase | Protein Coding | 54 | GC02M031334 | 15.85227299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XDH |
| RETN | Resistin | Protein Coding | 49 | GC19P007669 | 15.76069736 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RETN |
| ABCB1 | ATP Binding Cassette Subfamily B Member 1 | Protein Coding | 57 | GC07M087504 | 15.75623131 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB1 |
| CA5A | Carbonic Anhydrase 5A | Protein Coding | 50 | GC16M087882 | 15.74926186 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA5A |
| MAT1A | Methionine Adenosyltransferase 1A | Protein Coding | 52 | GC10M080271 | 15.67016792 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAT1A |
| LEPR | Leptin Receptor | Protein Coding | 57 | GC01P065421 | 15.63416672 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEPR |
| IRS1 | Insulin Receptor Substrate 1 | Protein Coding | 53 | GC02M226731 | 15.51399326 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS1 |
| UGT1A8 | UDP Glucuronosyltransferase Family 1 Member A8 | Protein Coding | 43 | GC02P233618 | 15.4636898 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A8 |
| GAMT | Guanidinoacetate N-Methyltransferase | Protein Coding | 52 | GC19M001397 | 15.44042587 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAMT |
| ABCA1 | ATP Binding Cassette Subfamily A Member 1 | Protein Coding | 55 | GC09M104781 | 15.39727402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCA1 |

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| UGT1A9 | UDP Glucuronosyltransferase Family 1 Member A9 | Protein Coding | 51 | GC02P233671 | 15.35033798 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A9 |
| GALT | Galactose-1-Phosphate Uridyltransferase | Protein Coding | 53 | GC09P048949 | 15.34730434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALT |
| FGF23 | Fibroblast Growth Factor 23 | Protein Coding | 52 | GC12M004368 | 15.22850227 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF23 |
| CYP17A1 | Cytochrome P450 Family 17 Subfamily A Member 1 | Protein Coding | 55 | GC10M102830 | 15.21972752 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP17A1 |
| G6PC1 | Glucose-6-Phosphatase Catalytic Subunit 1 | Protein Coding | 51 | GC17P063334 | 15.16344547 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PC1 |
| HFE | Homeostatic Iron Regulator | Protein Coding | 52 | GC06P026087 | 15.10912323 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HFE |
| APOC3 | Apolipoprotein C3 | Protein Coding | 52 | GC11P116829 | 15.01816845 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC3 |
| FASN | Fatty Acid Synthase | Protein Coding | 55 | GC17M082078 | 15.00522327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FASN |
| DPYD | Dihydropyrimidine Dehydrogenase | Protein Coding | 59 | GC01M097015 | 14.99942017 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYD |
| BCKDHA | Branched Chain Keto Acid Dehydrogenase E1 Subunit Alpha | Protein Coding | 51 | GC19P072922 | 14.99351788 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHA |
| ADRB2 | Adrenoceptor Beta 2 | Protein Coding | 56 | GC05P148825 | 14.96682453 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB2 |
| ALDH2 | Aldehyde Dehydrogenase 2 Family Member | Protein Coding | 57 | GC12P111766 | 14.95112228 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH2 |
| NR3C2 | Nuclear Receptor Subfamily 3 Group C Member 2 | Protein Coding | 52 | GC04M148078 | 14.85720921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C2 |
| SLCO1B1 | Solute Carrier Organic Anion Transporter Family Member 1B1 | Protein Coding | 55 | GC12P023907 | 14.79038334 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1B1 |
| HCFC1 | Host Cell Factor C1 | Protein Coding | 53 | GC0XM153947 | 14.77022457 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCFC1 |

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| IL10 | Interleukin 10 | Protein Coding | 55 | GC01M206767 | 14.64819908 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10 |
| CASR | Calcium Sensing Receptor | Protein Coding | 57 | GC03P122183 | 14.60171509 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASR |
| GCG | Glucagon | Protein Coding | 48 | GC02M162142 | 14.56726742 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCG |
| PCSK9 | Proprotein Convertase Subtilisin/Kexin Type 9 | Protein Coding | 57 | GC01P055039 | 14.51441669 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK9 |
| HSD17B10 | Hydroxysteroid 17-Beta Dehydrogenase 10 | Protein Coding | 53 | GC0XM053431 | 14.5091486 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B10 |
| SHBG | Sex Hormone Binding Globulin | Protein Coding | 48 | GC17P007613 | 14.43100166 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHBG |
| SLC2A4 | Solute Carrier Family 2 Member 4 | Protein Coding | 52 | GC17P011713 | 14.34994125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A4 |
| CYP19A1 | Cytochrome P450 Family 19 Subfamily A Member 1 | Protein Coding | 55 | GC15M051208 | 14.28239822 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP19A1 |
| HPD | 4-Hydroxyphenylpyruvate Dioxygenase | Protein Coding | 52 | GC12M121839 | 14.13055611 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPD |
| HIF1A | Hypoxia Inducible Factor 1 Subunit Alpha | Protein Coding | 54 | GC14P061695 | 14.09283161 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIF1A |
| VKORC1 | Vitamin K Epoxide Reductase Complex Subunit 1 | Protein Coding | 54 | GC16M038547 | 14.08553123 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VKORC1 |
| AHCY | Adenosylhomocysteinase | Protein Coding | 56 | GC20M034942 | 14.07678223 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHCY |
| FBP1 | Fructose-Bisphosphatase 1 | Protein Coding | 56 | GC09M094603 | 14.06463623 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBP1 |
| NOS3 | Nitric Oxide Synthase 3 | Protein Coding | 56 | GC07P150990 | 14.06137276 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS3 |
| ALDH5A1 | Aldehyde Dehydrogenase 5 Family Member A1 | Protein Coding | 54 | GC06P024494 | 14.05005932 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH5A1 |

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|-------|--|----------------|----|-------------|-------------|---|
| FTCD | Formimidoyltransferase Cyclodeaminase | Protein Coding | 49 | GC21M051374 | 14.04514503 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH5A1 |
| LDHA | Lactate Dehydrogenase A | Protein Coding | 57 | GC11P018394 | 14.0241642 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTCD |
| PTH | Parathyroid Hormone | Protein Coding | 52 | GC11M013492 | 14.01707935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDHA |
| PPARD | Peroxisome Proliferator Activated Receptor Delta | Protein Coding | 52 | GC06P092273 | 13.99849129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH |
| UCP2 | Uncoupling Protein 2 | Protein Coding | 52 | GC11M073974 | 13.88011551 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARD |
| GSTP1 | Glutathione S-Transferase Pi 1 | Protein Coding | 57 | GC11P067583 | 13.80813503 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP2 |
| ESR1 | Estrogen Receptor 1 | Protein Coding | 61 | GC06P151656 | 13.80347061 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTP1 |
| PTGS2 | Prostaglandin-Endoperoxide Synthase 2 | Protein Coding | 56 | GC01M186671 | 13.66300106 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR1 |
| PON1 | Paraoxonase 1 | Protein Coding | 55 | GC07M095297 | 13.57410049 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS2 |
| ETFA | Electron Transfer Flavoprotein Subunit Alpha | Protein Coding | 52 | GC15M122358 | 13.51145744 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PON1 |
| HMGCR | 3-Hydroxy-3-Methylglutaryl-CoA Reductase | Protein Coding | 53 | GC05P075336 | 13.458951 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETFA |
| FAH | Fumarylacetoacetate Hydrolase | Protein Coding | 53 | GC15P080152 | 13.40405846 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCR |
| PSAP | Prosaposin | Protein Coding | 54 | GC10M071816 | 13.35322666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAH |
| CP | Ceruloplasmin | Protein Coding | 55 | GC03M149162 | 13.33574104 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSAP |
| COMT | Catechol-O-Methyltransferase | Protein Coding | 59 | GC22P019941 | 13.30807877 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CP |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COMT |

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| SREBF1 | Sterol Regulatory Element Binding Transcription Factor 1 | Protein Coding | 53 | GC17M017810 | 13.25699425 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF1 |
| NR1H2 | Nuclear Receptor Subfamily 1 Group H Member 2 | Protein Coding | 53 | GC19P050329 | 13.08687782 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H2 |
| ASL | Argininosuccinate Lyase | Protein Coding | 52 | GC07P066075 | 12.97810268 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASL |
| HADH | Hydroxyacyl-CoA Dehydrogenase | Protein Coding | 54 | GC04P107989 | 12.95173168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADH |
| SMPD1 | Sphingomyelin Phosphodiesterase 1 | Protein Coding | 56 | GC11P006390 | 12.94299412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD1 |
| COX5A | Cytochrome C Oxidase Subunit 5A | Protein Coding | 50 | GC15M074919 | 12.93949127 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX5A |
| REN | Renin | Protein Coding | 55 | GC01M204154 | 12.88049412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=REN |
| GSS | Glutathione Synthetase | Protein Coding | 53 | GC20M034928 | 12.87272263 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSS |
| G6PD | Glucose-6-Phosphate Dehydrogenase | Protein Coding | 57 | GC0XM154562 | 12.85865021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PD |
| SLC16A1 | Solute Carrier Family 16 Member 1 | Protein Coding | 54 | GC01M113013 | 12.82639217 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A1 |
| CD36 | CD36 Molecule | Protein Coding | 56 | GC07P080369 | 12.77978039 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD36 |
| NPC1 | NPC Intracellular Cholesterol Transporter 1 | Protein Coding | 56 | GC18M023506 | 12.75236893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPC1 |
| DDC | Dopa Decarboxylase | Protein Coding | 57 | GC07M050458 | 12.74859524 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDC |
| APOA5 | Apolipoprotein A5 | Protein Coding | 51 | GC11M116789 | 12.7049284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA5 |
| CYP21A2 | Cytochrome P450 Family 21 Subfamily A Member 2 | Protein Coding | 51 | GC06P092176 | 12.66181755 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP21A2 |

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| CXCL8 | C-X-C Motif Chemokine Ligand 8 | Protein Coding | 50 | GC04P073740 | 12.65779114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP21A2 |
| UGT1A3 | UDP Glucuronosyltransferase Family 1 Member A3 | Protein Coding | 44 | GC02P233729 | 12.65203857 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL8 |
| EPHX1 | Epoxide Hydrolase 1 | Protein Coding | 52 | GC01P225810 | 12.62948704 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A3 |
| MLYCD | Malonyl-CoA Decarboxylase | Protein Coding | 48 | GC16P083899 | 12.62700081 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX1 |
| CYP24A1 | Cytochrome P450 Family 24 Subfamily A Member 1 | Protein Coding | 53 | GC20M054153 | 12.61680889 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLYCD |
| PDHA1 | Pyruvate Dehydrogenase E1 Subunit Alpha 1 | Protein Coding | 54 | GC0XP019343 | 12.60220623 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP24A1 |
| PRKAA2 | Protein Kinase AMP-Activated Catalytic Subunit Alpha 2 | Protein Coding | 57 | GC01P056645 | 12.5937233 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHA1 |
| SOD1 | Superoxide Dismutase 1 | Protein Coding | 60 | GC21P031659 | 12.58113956 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA2 |
| UGT1A10 | UDP Glucuronosyltransferase Family 1 Member A10 | Protein Coding | 48 | GC02P233636 | 12.54686928 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD1 |
| SLC17A5 | Solute Carrier Family 17 Member 5 | Protein Coding | 51 | GC06M073593 | 12.54128933 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A10 |
| NAT2 | N-Acetyltransferase 2 | Protein Coding | 47 | GC08P018391 | 12.47551346 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A5 |
| LIPE | Lipase E, Hormone Sensitive Type | Protein Coding | 54 | GC19M042401 | 12.46535015 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT2 |
| PLA2G4A | Phospholipase A2 Group IVA | Protein Coding | 55 | GC01P186798 | 12.43510914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPE |
| ACACA | Acetyl-CoA Carboxylase Alpha | Protein Coding | 55 | GC17M037084 | 12.39061165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G4A |
| PRKAA1 | Protein Kinase AMP-Activated Catalytic Subunit Alpha 1 | Protein Coding | 54 | GC05M040759 | 12.38722038 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACACA |

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|----------|--|----------------|----|-------------|-------------|---|
| ADA | Adenosine Deaminase | Protein Coding | 57 | GC20M044620 | 12.38394356 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA1 |
| NR1I2 | Nuclear Receptor Subfamily 1 Group I Member 2 | Protein Coding | 51 | GC03P119780 | 12.3428793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADA |
| QDPR | Quinoid Dihydropteridine Reductase | Protein Coding | 53 | GC04M017460 | 12.31072426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1I2 |
| ALDH6A1 | Aldehyde Dehydrogenase 6 Family Member A1 | Protein Coding | 52 | GC14M074059 | 12.25684834 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=QDPR |
| ABCC2 | ATP Binding Cassette Subfamily C Member 2 | Protein Coding | 55 | GC10P099782 | 12.24063396 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH6A1 |
| F2 | Coagulation Factor II, Thrombin | Protein Coding | 56 | GC11P046720 | 12.21356201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC2 |
| DLD | Dihydrolipoamide Dehydrogenase | Protein Coding | 56 | GC07P107890 | 12.20763779 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2 |
| PYGM | Glycogen Phosphorylase, Muscle Associated | Protein Coding | 53 | GC11M064746 | 12.18904305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLD |
| HBB | Hemoglobin Subunit Beta | Protein Coding | 51 | GC11M006827 | 12.17414379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYGM |
| CCL2 | C-C Motif Chemokine Ligand 2 | Protein Coding | 56 | GC17P034255 | 12.15099144 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBB |
| MCCC2 | Methylcrotonyl-CoA Carboxylase Subunit 2 | Protein Coding | 51 | GC05P073552 | 12.12744713 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL2 |
| ARSA | Arylsulfatase A | Protein Coding | 53 | GC22M050622 | 12.1175108 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCCC2 |
| UGT1A7 | UDP Glucuronosyltransferase Family 1 Member A7 | Protein Coding | 47 | GC02P233681 | 12.10301018 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSA |
| KL | Klotho | Protein Coding | 54 | GC13P033016 | 12.0826025 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A7 |
| SERPINE1 | Serpin Family E Member 1 | Protein Coding | 57 | GC07P101127 | 12.04139709 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KL |

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| DYRK1B | Dual Specificity Tyrosine Phosphorylation Regulated Kinase 1B | Protein Coding | 53 | GC19M039825 | 12.03226757 | ne=SERPINE1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYRK1B |
| SUOX | Sulfite Oxidase | Protein Coding | 51 | GC12P055997 | 12.02076054 | ne=SUOX https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUOX |
| NR1H4 | Nuclear Receptor Subfamily 1 Group H Member 4 | Protein Coding | 55 | GC12P100473 | 12.00567818 | ne=NR1H4 https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H4 |
| BCKDK | Branched Chain Keto Acid Dehydrogenase Kinase | Protein Coding | 52 | GC16P042844 | 11.98306084 | ne=BCKDK https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDK |
| PTEN | Phosphatase And Tensin Homolog | Protein Coding | 59 | GC10P094594 | 11.97610664 | ne=PTEN https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTEN |
| CS | Citrate Synthase | Protein Coding | 51 | GC12M056271 | 11.92381477 | ne=CS https://www.genecards.org/cgi-bin/carddisp.pl?gene=CS |
| ALDOB | Aldolase, Fructose-Bisphosphate B | Protein Coding | 52 | GC09M101420 | 11.91490173 | ne=ALDOB https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDOB |
| APOA2 | Apolipoprotein A2 | Protein Coding | 52 | GC01M161222 | 11.90166092 | ne=APOA2 https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA2 |
| IFNG | Interferon Gamma | Protein Coding | 57 | GC12M068154 | 11.8699913 | ne=IFNG https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNG |
| DPP4 | Dipeptidyl Peptidase 4 | Protein Coding | 57 | GC02M161992 | 11.85106945 | ne=DPP4 https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPP4 |
| PNP | Purine Nucleoside Phosphorylase | Protein Coding | 56 | GC14P034354 | 11.83236408 | ne=PNP https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNP |
| ALPL | Alkaline Phosphatase, Biomineralization Associated | Protein Coding | 58 | GC01P021508 | 11.82943535 | ne=ALPL https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPL |
| ALOX5 | Arachidonate 5-Lipoxygenase | Protein Coding | 54 | GC10P045374 | 11.82166386 | ne=ALOX5 https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5 |
| GATM | Glycine Amidinotransferase | Protein Coding | 52 | GC15M045361 | 11.68083858 | ne=GATM https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATM |
| MCCC1 | Methylcrotonyl-CoA Carboxylase Subunit 1 | Protein Coding | 50 | GC03M183015 | 11.66801453 | ne=MCCC1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCCC1 |

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| BCHE | Butyrylcholinesterase | Protein Coding | 57 | GC03M165772 | 11.63358974 | ne=MCCC1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCHE |
| PIK3CA | Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha | Protein Coding | 59 | GC03P179148 | 11.63045788 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CA |
| MPO | Myeloperoxidase | Protein Coding | 59 | GC17M058269 | 11.59176159 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPO |
| ARG1 | Arginase 1 | Protein Coding | 56 | GC06P131473 | 11.57893658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARG1 |
| SLC4A1 | Solute Carrier Family 4 Member 1 (Diego Blood Group) | Protein Coding | 54 | GC17M051897 | 11.54837894 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A1 |
| FABP4 | Fatty Acid Binding Protein 4 | Protein Coding | 50 | GC08M081478 | 11.49729919 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP4 |
| CAT | Catalase | Protein Coding | 58 | GC11P034460 | 11.48341846 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAT |
| STAR | Steroidogenic Acute Regulatory Protein | Protein Coding | 51 | GC08M038145 | 11.43203926 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAR |
| ABCC8 | ATP Binding Cassette Subfamily C Member 8 | Protein Coding | 53 | GC11M017392 | 11.42554283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC8 |
| OGDH | Oxoglutarate Dehydrogenase | Protein Coding | 53 | GC07P044606 | 11.42041874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGDH |
| NQO1 | NAD(P)H Quinone Dehydrogenase 1 | Protein Coding | 55 | GC16M069706 | 11.40145969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NQO1 |
| HADHB | Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit Beta | Protein Coding | 54 | GC02P026243 | 11.36002731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHB |
| SULT1A1 | Sulfotransferase Family 1A Member 1 | Protein Coding | 50 | GC16M038249 | 11.33466053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A1 |
| MVK | Mevalonate Kinase | Protein Coding | 54 | GC12P109573 | 11.33141518 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MVK |
| AMPD3 | Adenosine Monophosphate Deaminase 3 | Protein Coding | 51 | GC11P010309 | 11.29901218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMPD3 |

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| FABP2 | Fatty Acid Binding Protein 2 | Protein Coding | 48 | GC04M119317 | 11.29714584 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP2 |
| UGT1A | UDP Glucuronosyltransferase Family 1 Member A Complex Locus | Uncategorized | 13 | GC02P233592 | 11.28607178 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A |
| TF | Transferrin | Protein Coding | 57 | GC03P135056 | 11.27254391 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TF |
| RYR1 | Ryanodine Receptor 1 | Protein Coding | 53 | GC19P072806 | 11.22693443 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR1 |
| SDHB | Succinate Dehydrogenase Complex Iron Sulfur Subunit B | Protein Coding | 54 | GC01M018297 | 11.20557117 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHB |
| CYP3A7 | Cytochrome P450 Family 3 Subfamily A Member 7 | Protein Coding | 47 | GC07M099705 | 11.19146252 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A7 |
| ACSS2 | Acyl-CoA Synthetase Short Chain Family Member 2 | Protein Coding | 52 | GC20P034873 | 11.14794254 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS2 |
| ACAT1 | Acetyl-CoA Acetyltransferase 1 | Protein Coding | 56 | GC11P108121 | 11.1475544 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAT1 |
| CTH | Cystathionine Gamma-Lyase | Protein Coding | 56 | GC01P070411 | 11.13909245 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTH |
| AR | Androgen Receptor | Protein Coding | 59 | GC0XP067544 | 11.10406113 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AR |
| GNAS | GNAS Complex Locus | Protein Coding | 56 | GC20P058839 | 11.09564114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAS |
| GCSH | Glycine Cleavage System Protein H | Protein Coding | 49 | GC16M081081 | 11.08065605 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCSH |
| PNPLA3 | Patatin Like Phospholipase Domain Containing 3 | Protein Coding | 48 | GC22P043923 | 11.0245285 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNPLA3 |
| FGF21 | Fibroblast Growth Factor 21 | Protein Coding | 46 | GC19P073194 | 10.99773979 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF21 |
| CPOX | Coproporphyrinogen Oxidase | Protein Coding | 51 | GC03M098576 | 10.99168968 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPOX |

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| CNR1 | Cannabinoid Receptor 1 | Protein Coding | 53 | GC06M088139 | 10.95663166 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR1 |
| TAT | Tyrosine Aminotransferase | Protein Coding | 52 | GC16M071565 | 10.91602612 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAT |
| GRIA2 | Glutamate Ionotropic Receptor AMPA Type Subunit 2 | Protein Coding | 58 | GC04P157204 | 10.91508484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA2 |
| EHHADH | Enoyl-CoA Hydratase And 3-Hydroxyacyl CoA Dehydrogenase | Protein Coding | 50 | GC03M185190 | 10.90606213 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EHHADH |
| CFTR | CF Transmembrane Conductance Regulator | Protein Coding | 59 | GC07P117287 | 10.90104771 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFTR |
| UPB1 | Beta-Ureidopropionase 1 | Protein Coding | 51 | GC22P024494 | 10.89578056 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UPB1 |
| PTGS1 | Prostaglandin-Endoperoxide Synthase 1 | Protein Coding | 53 | GC09P122370 | 10.85939598 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS1 |
| RBP4 | Retinol Binding Protein 4 | Protein Coding | 52 | GC10M093591 | 10.77317238 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBP4 |
| HMOX1 | Heme Oxygenase 1 | Protein Coding | 59 | GC22P035380 | 10.77141571 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX1 |
| POR | Cytochrome P450 Oxidoreductase | Protein Coding | 56 | GC07P075899 | 10.76194668 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POR |
| MB | Myoglobin | Protein Coding | 50 | GC22M035606 | 10.72063637 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MB |
| SDHA | Succinate Dehydrogenase Complex Flavoprotein Subunit A | Protein Coding | 54 | GC05P000220 | 10.72057343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHA |
| ABCG2 | ATP Binding Cassette Subfamily G Member 2 (Junior Blood Group) | Protein Coding | 56 | GC04M088090 | 10.62441158 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCG2 |
| DGAT1 | Diacylglycerol O-Acyltransferase 1 | Protein Coding | 55 | GC08M144325 | 10.61318207 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGAT1 |
| CYP11B2 | Cytochrome P450 Family 11 Subfamily B Member 2 | Protein Coding | 53 | GC08M142910 | 10.61117077 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B2 |

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| UGT2B7 | UDP Glucuronosyltransferase Family 2 Member B7 | Protein Coding | 50 | GC04P069051 | 10.59724236 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B2 |
| CYP27A1 | Cytochrome P450 Family 27 Subfamily A Member 1 | Protein Coding | 53 | GC02P218781 | 10.5703907 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B7 |
| SLC25A20 | Solute Carrier Family 25 Member 20 | Protein Coding | 51 | GC03M048864 | 10.55376339 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP27A1 |
| PRL | Prolactin | Protein Coding | 50 | GC06M022287 | 10.54038048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A20 |
| UGT1A4 | UDP Glucuronosyltransferase Family 1 Member A4 | Protein Coding | 49 | GC02P233718 | 10.53925133 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRL |
| VCAM1 | Vascular Cell Adhesion Molecule 1 | Protein Coding | 52 | GC01P100719 | 10.49340725 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A4 |
| KYNU | Kynureninase | Protein Coding | 55 | GC02P142877 | 10.47294903 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCAM1 |
| SRD5A2 | Steroid 5 Alpha-Reductase 2 | Protein Coding | 49 | GC02M031522 | 10.46125317 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KYNU |
| TYMP | Thymidine Phosphorylase | Protein Coding | 54 | GC22M050525 | 10.40325737 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A2 |
| MC4R | Melanocortin 4 Receptor | Protein Coding | 53 | GC18M060371 | 10.38755989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYMP |
| NDUFS4 | NADH:Ubiquinone Oxidoreductase Subunit S4 | Protein Coding | 50 | GC05P053560 | 10.37858486 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MC4R |
| PCK2 | Phosphoenolpyruvate Carboxykinase 2, Mitochondrial | Protein Coding | 53 | GC14P024094 | 10.35907841 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFS4 |
| SCD | Stearoyl-CoA Desaturase | Protein Coding | 57 | GC10P100347 | 10.35372066 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCK2 |
| GSR | Glutathione-Disulfide Reductase | Protein Coding | 56 | GC08M030678 | 10.34006882 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCD |
| GRIA1 | Glutamate Ionotropic Receptor AMPA Type Subunit 1 | Protein Coding | 56 | GC05P153467 | 10.3355341 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSR |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA1 |

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| HMGCS2 | 3-Hydroxy-3-Methylglutaryl-CoA Synthase 2 | Protein Coding | 53 | GC01M119747 | 10.30286884 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCS2 |
| FFAR2 | Free Fatty Acid Receptor 2 | Protein Coding | 48 | GC19P072731 | 10.30257607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR2 |
| BLOC1S1 | Biogenesis Of Lysosomal Organelles Complex 1 Subunit 1 | Protein Coding | 42 | GC12P055950 | 10.30231476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLOC1S1 |
| GH1 | Growth Hormone 1 | Protein Coding | 50 | GC17M063917 | 10.25849533 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GH1 |
| KCNJ1 | Potassium Inwardly Rectifying Channel Subfamily J Member 1 | Protein Coding | 54 | GC11M128741 | 10.25777531 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ1 |
| APP | Amyloid Beta Precursor Protein | Protein Coding | 58 | GC21M025880 | 10.25391865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APP |
| EPHX2 | Epoxide Hydrolase 2 | Protein Coding | 53 | GC08P027490 | 10.23595047 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX2 |
| PTPN1 | Protein Tyrosine Phosphatase Non-Receptor Type 1 | Protein Coding | 57 | GC20P050510 | 10.23029804 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN1 |
| GOT2 | Glutamic-Oxaloacetic Transaminase 2 | Protein Coding | 53 | GC16M058707 | 10.2194376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOT2 |
| KCNJ11 | Potassium Inwardly Rectifying Channel Subfamily J Member 11 | Protein Coding | 53 | GC11M017663 | 10.20500565 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ11 |
| NR113 | Nuclear Receptor Subfamily 1 Group 1 Member 3 | Protein Coding | 51 | GC01M161229 | 10.19310284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR113 |
| CYP11B1 | Cytochrome P450 Family 11 Subfamily B Member 1 | Protein Coding | 52 | GC08M142872 | 10.17906284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B1 |
| HK2 | Hexokinase 2 | Protein Coding | 52 | GC02P074833 | 10.16204357 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HK2 |
| ATP7A | ATPase Copper Transporting Alpha | Protein Coding | 52 | GC0XP078031 | 10.16186047 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP7A |
| MTOR | Mechanistic Target Of Rapamycin Kinase | Protein Coding | 62 | GC01M011106 | 10.12988853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTOR |

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| IGFBP3 | Insulin Like Growth Factor Binding Protein 3 | Protein Coding | 54 | GC07M045912 | 10.12064362 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP3 |
| TCN2 | Transcobalamin 2 | Protein Coding | 50 | GC22P044849 | 10.1113596 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCN2 |
| BDNF | Brain Derived Neurotrophic Factor | Protein Coding | 56 | GC11M027654 | 10.10180569 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDNF |
| AKR1A1 | Aldo-Keto Reductase Family 1 Member A1 | Protein Coding | 51 | GC01P045550 | 10.08849812 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1A1 |
| UCP1 | Uncoupling Protein 1 | Protein Coding | 50 | GC04M140559 | 10.07172298 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP1 |
| SERPINA1 | Serpin Family A Member 1 | Protein Coding | 56 | GC14M094376 | 10.03485966 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA1 |
| TTR | Transthyretin | Protein Coding | 55 | GC18P031557 | 10.01377964 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTR |
| CYP4F2 | Cytochrome P450 Family 4 Subfamily F Member 2 | Protein Coding | 50 | GC19M015878 | 9.978006363 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4F2 |
| ALDH9A1 | Aldehyde Dehydrogenase 9 Family Member A1 | Protein Coding | 49 | GC01M165681 | 9.949209213 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH9A1 |
| AKT2 | AKT Serine/Threonine Kinase 2 | Protein Coding | 61 | GC19M040230 | 9.924123764 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT2 |
| HNF1A | HNF1 Homeobox A | Protein Coding | 53 | GC12P120978 | 9.914362907 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF1A |
| PPIG | Peptidylprolyl Isomerase G | Protein Coding | 48 | GC02P169584 | 9.875458717 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPIG |
| LIPA | Lipase A, Lysosomal Acid Type | Protein Coding | 55 | GC10M089213 | 9.852193832 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPA |
| SCNN1G | Sodium Channel Epithelial 1 Subunit Gamma | Protein Coding | 53 | GC16P023182 | 9.823068619 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1G |
| UROCI | Urocanate Hydratase 1 | Protein Coding | 46 | GC03M126481 | 9.821082115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROCI |

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| PCK1 | Phosphoenolpyruvate Carboxykinase 1 | Protein Coding | 54 | GC20P057561 | 9.816595078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROC1 |
| NPY | Neuropeptide Y | Protein Coding | 51 | GC07P024290 | 9.814024925 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCK1 |
| SLC25A15 | Solute Carrier Family 25 Member 15 | Protein Coding | 50 | GC13P040789 | 9.767385483 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY |
| MT-ND6 | Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 6 | Protein Coding | 38 | GCMTM014151 | 9.757986069 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A15 |
| HGD | Homogentisate 1,2-Dioxygenase | Protein Coding | 50 | GC03M120628 | 9.720542908 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND6 |
| SERPINA3 | Serpin Family A Member 3 | Protein Coding | 50 | GC14P094612 | 9.719280243 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGD |
| ASAH1 | N-Acylsphingosine Amidohydrolase 1 | Protein Coding | 56 | GC08M018055 | 9.712446213 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA3 |
| PDP1 | Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1 | Protein Coding | 54 | GC08P093857 | 9.703587532 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASAH1 |
| ABCC1 | ATP Binding Cassette Subfamily C Member 1 | Protein Coding | 56 | GC16P015949 | 9.692297935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDP1 |
| DPYS | Dihydropyrimidinase | Protein Coding | 52 | GC08M104331 | 9.645685196 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC1 |
| SLC5A6 | Solute Carrier Family 5 Member 6 | Protein Coding | 51 | GC02M027201 | 9.638032913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYS |
| TPI1 | Triosephosphate Isomerase 1 | Protein Coding | 54 | GC12P006867 | 9.596486092 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A6 |
| PRKAB1 | Protein Kinase AMP-Activated Non-Catalytic Subunit Beta 1 | Protein Coding | 53 | GC12P119632 | 9.594614029 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPI1 |
| ABCB11 | ATP Binding Cassette Subfamily B Member 11 | Protein Coding | 53 | GC02M168922 | 9.566059113 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAB1 |
| TNFSF11 | TNF Superfamily Member 11 | Protein Coding | 56 | GC13P042562 | 9.559355736 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB11 |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF11 |

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| PHKA2 | Phosphorylase Kinase Regulatory Subunit Alpha 2 | Protein Coding | 51 | GC0XM018892 | 9.55429554 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHKA2 |
| EPO | Erythropoietin | Protein Coding | 49 | GC07P100720 | 9.553358078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPO |
| EPRS1 | Glutamyl-Prolyl-TRNA Synthetase 1 | Protein Coding | 50 | GC01M219969 | 9.552751541 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPRS1 |
| MAOA | Monoamine Oxidase A | Protein Coding | 55 | GC0XP043654 | 9.547767639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOA |
| ACAT2 | Acetyl-CoA Acetyltransferase 2 | Protein Coding | 51 | GC06P160802 | 9.544605255 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAT2 |
| SCARB1 | Scavenger Receptor Class B Member 1 | Protein Coding | 55 | GC12M124776 | 9.489313126 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB1 |
| MT-CYB | Mitochondrially Encoded Cytochrome B | Protein Coding | 38 | GCMTP014749 | 9.488700867 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CYB |
| BCL2 | BCL2 Apoptosis Regulator | Protein Coding | 57 | GC18M063123 | 9.478082657 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2 |
| BMP6 | Bone Morphogenetic Protein 6 | Protein Coding | 50 | GC06P007726 | 9.47426033 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP6 |
| ANGPTL4 | Angiopoietin Like 4 | Protein Coding | 52 | GC19P008363 | 9.469734192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL4 |
| MAPK1 | Mitogen-Activated Protein Kinase 1 | Protein Coding | 59 | GC22M021759 | 9.460432053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK1 |
| SREBF2 | Sterol Regulatory Element Binding Transcription Factor 2 | Protein Coding | 50 | GC22P041833 | 9.449868202 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF2 |
| SLC6A8 | Solute Carrier Family 6 Member 8 | Protein Coding | 53 | GC0XP153688 | 9.426587105 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A8 |
| PGR | Progesterone Receptor | Protein Coding | 56 | GC11M102130 | 9.400068283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGR |
| PKM | Pyruvate Kinase M1/2 | Protein Coding | 56 | GC15M072199 | 9.394825935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKM |

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| PRPS1 | Phosphoribosyl Pyrophosphate Synthetase 1 | Protein Coding | 54 | GC0XP107628 | 9.386370659 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRPS1 |
| AHR | Aryl Hydrocarbon Receptor | Protein Coding | 54 | GC07P016916 | 9.34418869 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHR |
| ACSS1 | Acyl-CoA Synthetase Short Chain Family Member 1 | Protein Coding | 47 | GC20M024986 | 9.330976486 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS1 |
| RRM2B | Ribonucleotide Reductase Regulatory TP53 Inducible Subunit M2B | Protein Coding | 56 | GC08M102204 | 9.317185402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM2B |
| B3GAT1 | Beta-1,3-Glucuronyltransferase 1 | Protein Coding | 50 | GC11M134378 | 9.305902481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=B3GAT1 |
| MMP1 | Matrix Metalloproteinase 1 | Protein Coding | 57 | GC11M102810 | 9.27759552 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP1 |
| AOX1 | Aldehyde Oxidase 1 | Protein Coding | 51 | GC02P200585 | 9.275713921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOX1 |
| TFRC | Transferrin Receptor | Protein Coding | 58 | GC03M196056 | 9.241100311 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFRC |
| GAPDH | Glyceraldehyde-3-Phosphate Dehydrogenase | Protein Coding | 57 | GC12P023539 | 9.224225998 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAPDH |
| ALDH3A2 | Aldehyde Dehydrogenase 3 Family Member A2 | Protein Coding | 52 | GC17P019648 | 9.220035553 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3A2 |
| CYP26A1 | Cytochrome P450 Family 26 Subfamily A Member 1 | Protein Coding | 50 | GC10P093073 | 9.213516235 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP26A1 |
| SELE | Selectin E | Protein Coding | 50 | GC01M169722 | 9.211622238 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELE |
| ODC1 | Ornithine Decarboxylase 1 | Protein Coding | 55 | GC02M010432 | 9.199753761 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ODC1 |
| SI | Sucrase-Isomaltase | Protein Coding | 51 | GC03M164978 | 9.185455322 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SI |
| IL4 | Interleukin 4 | Protein Coding | 53 | GC05P132673 | 9.176439285 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4 |

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| TGFB1 | Transforming Growth Factor Beta 1 | Protein Coding | 60 | GC19M041301 | 9.174732208 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB1 |
| CALCA | Calcitonin Related Polypeptide Alpha | Protein Coding | 50 | GC11M014945 | 9.166168213 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCA |
| SARDH | Sarcosine Dehydrogenase | Protein Coding | 48 | GC09M133663 | 9.150572777 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SARDH |
| IRS2 | Insulin Receptor Substrate 2 | Protein Coding | 51 | GC13M109752 | 9.141462326 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS2 |
| TSHR | Thyroid Stimulating Hormone Receptor | Protein Coding | 54 | GC14P080954 | 9.134458542 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSHR |
| ABAT | 4-Aminobutyrate Aminotransferase | Protein Coding | 52 | GC16P008674 | 9.114062309 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABAT |
| PLA2G7 | Phospholipase A2 Group VII | Protein Coding | 56 | GC06M046704 | 9.094242096 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G7 |
| PPOX | Protoporphyrinogen Oxidase | Protein Coding | 50 | GC01P161793 | 9.073926926 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPOX |
| BSND | Barttin CLCNK Type Accessory Subunit Beta | Protein Coding | 46 | GC01P054998 | 9.067605019 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BSND |
| NFE2L2 | NFE2 Like BZIP Transcription Factor 2 | Protein Coding | 57 | GC02M177227 | 9.067396164 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2L2 |
| TH | Tyrosine Hydroxylase | Protein Coding | 57 | GC11M002163 | 9.036359787 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TH |
| GLP1R | Glucagon Like Peptide 1 Receptor | Protein Coding | 53 | GC06P039048 | 9.011398315 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLP1R |
| B2M | Beta-2-Microglobulin | Protein Coding | 56 | GC15P044711 | 9.009315491 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=B2M |
| ABCC4 | ATP Binding Cassette Subfamily C Member 4 | Protein Coding | 52 | GC13M095019 | 9.002803802 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC4 |
| FECH | Ferrochelatase | Protein Coding | 53 | GC18M057544 | 8.987259865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FECH |

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| SCNN1B | Sodium Channel Epithelial 1 Subunit Beta | Protein Coding | 55 | GC16P023278 | 8.966176987 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1B |
| CAV1 | Caveolin 1 | Protein Coding | 55 | GC07P116524 | 8.965511322 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV1 |
| PLA2G6 | Phospholipase A2 Group VI | Protein Coding | 54 | GC22M063106 | 8.922856331 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G6 |
| SLC9A3 | Solute Carrier Family 9 Member A3 | Protein Coding | 54 | GC05M000472 | 8.890376091 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3 |
| KRAS | KRAS Proto-Oncogene, GTPase | Protein Coding | 59 | GC12M025204 | 8.88931179 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRAS |
| ACSS3 | Acyl-CoA Synthetase Short Chain Family Member 3 | Protein Coding | 44 | GC12P080936 | 8.88329792 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS3 |
| PNLIP | Pancreatic Lipase | Protein Coding | 55 | GC10P116545 | 8.861320496 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNLIP |
| WNK1 | WNK Lysine Deficient Protein Kinase 1 | Protein Coding | 55 | GC12P000733 | 8.852413177 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK1 |
| AMACR | Alpha-Methylacyl-CoA Racemase | Protein Coding | 51 | GC05M033986 | 8.844797134 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMACR |
| TPO | Thyroid Peroxidase | Protein Coding | 56 | GC02P001374 | 8.836055756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPO |
| PLTP | Phospholipid Transfer Protein | Protein Coding | 51 | GC20M045898 | 8.819312096 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLTP |
| PLA2G2A | Phospholipase A2 Group IIA | Protein Coding | 53 | GC01M019975 | 8.813098907 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2A |
| CBLIF | Cobalamin Binding Intrinsic Factor | Protein Coding | 50 | GC11M059829 | 8.777448654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLIF |
| ALOX12 | Arachidonate 12-Lipoxygenase, 12S Type | Protein Coding | 51 | GC17P006995 | 8.752995491 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX12 |
| PEPD | Peptidase D | Protein Coding | 52 | GC19M033386 | 8.72979641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEPD |

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| MAOB | Monoamine Oxidase B | Protein Coding | 51 | GC0XM043766 | 8.728715897 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOB |
| SUCLG1 | Succinate-CoA Ligase GDP/ADP-Forming Subunit Alpha | Protein Coding | 53 | GC02M084423 | 8.726793289 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLG1 |
| NR1H3 | Nuclear Receptor Subfamily 1 Group H Member 3 | Protein Coding | 53 | GC11P047248 | 8.693900108 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H3 |
| ALDOA | Aldolase, Fructose-Bisphosphate A | Protein Coding | 55 | GC16P030064 | 8.690598488 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDOA |
| TALDO1 | Transaldolase 1 | Protein Coding | 53 | GC11P002101 | 8.67280674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TALDO1 |
| PIK3C2A | Phosphatidylinositol-4-Phosphate 3-Kinase Catalytic Subunit Type 2 Alpha | Protein Coding | 54 | GC11M017656 | 8.672620773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3C2A |
| MIR132 | MicroRNA 132 | RNA Gene | 24 | GC17M002049 | 8.668548584 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR132 |
| ALDH7A1 | Aldehyde Dehydrogenase 7 Family Member A1 | Protein Coding | 55 | GC05M126541 | 8.663873672 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH7A1 |
| IGF1R | Insulin Like Growth Factor 1 Receptor | Protein Coding | 61 | GC15P098648 | 8.65890789 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1R |
| SERPINA6 | Serpin Family A Member 6 | Protein Coding | 52 | GC14M103107 | 8.658004761 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA6 |
| MYC | MYC Proto-Oncogene, BHLH Transcription Factor | Protein Coding | 59 | GC08P127735 | 8.656543732 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYC |
| FAS | Fas Cell Surface Death Receptor | Protein Coding | 57 | GC10P094616 | 8.649011612 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAS |
| HAL | Histidine Ammonia-Lyase | Protein Coding | 50 | GC12M095972 | 8.647676468 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAL |
| AKR1C3 | Aldo-Keto Reductase Family 1 Member C3 | Protein Coding | 52 | GC10P005035 | 8.643188477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C3 |
| VEGFA | Vascular Endothelial Growth Factor A | Protein Coding | 56 | GC06P043770 | 8.640114784 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFA |

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|--------|--|----------------|----|-------------|-------------|---|
| NPPA | Natriuretic Peptide A | Protein Coding | 52 | GC01M011846 | 8.623929024 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPA |
| IGF2 | Insulin Like Growth Factor 2 | Protein Coding | 55 | GC11M004506 | 8.617035866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2 |
| NAT1 | N-Acetyltransferase 1 | Protein Coding | 50 | GC08P018183 | 8.583248138 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT1 |
| CYB5A | Cytochrome B5 Type A | Protein Coding | 50 | GC18M074250 | 8.580019951 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB5A |
| SOD2 | Superoxide Dismutase 2 | Protein Coding | 53 | GC06M159669 | 8.579874039 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD2 |
| TLR4 | Toll Like Receptor 4 | Protein Coding | 58 | GC09P117704 | 8.57736969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR4 |
| AGK | Acylglycerol Kinase | Protein Coding | 47 | GC07P141551 | 8.569777489 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGK |
| AGPAT2 | 1-Acylglycerol-3-Phosphate O-Acyltransferase 2 | Protein Coding | 52 | GC09M136673 | 8.565602303 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT2 |
| SRD5A1 | Steroid 5 Alpha-Reductase 1 | Protein Coding | 50 | GC05P006633 | 8.563120842 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A1 |
| FBN1 | Fibrillin 1 | Protein Coding | 53 | GC15M048408 | 8.536642075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBN1 |
| IL5 | Interleukin 5 | Protein Coding | 52 | GC05M132541 | 8.535798073 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5 |
| GLS | Glutaminase | Protein Coding | 56 | GC02P190880 | 8.528938293 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLS |
| EDN1 | Endothelin 1 | Protein Coding | 55 | GC06P012256 | 8.526630402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN1 |
| GALC | Galactosylceramidase | Protein Coding | 51 | GC14M087837 | 8.512210846 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALC |
| MMP9 | Matrix Metalloproteinase 9 | Protein Coding | 61 | GC20P046008 | 8.467338562 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP9 |

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|---------|---|----------------|----|-------------|-------------|---|
| SPP1 | Secreted Phosphoprotein 1 | Protein Coding | 53 | GC04P087975 | 8.406263351 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPP1 |
| SOAT1 | Sterol O-Acyltransferase 1 | Protein Coding | 51 | GC01P179262 | 8.406112671 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOAT1 |
| FGFR1 | Fibroblast Growth Factor Receptor 1 | Protein Coding | 63 | GC08M038400 | 8.392232895 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR1 |
| MME | Membrane Metalloendopeptidase | Protein Coding | 57 | GC03P155024 | 8.376724243 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MME |
| FOXO3 | Forkhead Box O3 | Protein Coding | 53 | GC06P108559 | 8.376056671 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO3 |
| GLUL | Glutamate-Ammonia Ligase | Protein Coding | 55 | GC01M182378 | 8.333607674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLUL |
| CA2 | Carbonic Anhydrase 2 | Protein Coding | 59 | GC08P085463 | 8.320440292 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA2 |
| GLA | Galactosidase Alpha | Protein Coding | 56 | GC0XM101393 | 8.318837166 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLA |
| ALAD | Aminolevulinate Dehydratase | Protein Coding | 53 | GC09M113386 | 8.308020592 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAD |
| UGT2B15 | UDP Glucuronosyltransferase Family 2 Member B15 | Protein Coding | 50 | GC04M068646 | 8.296926498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B15 |
| ACOX1 | Acyl-CoA Oxidase 1 | Protein Coding | 52 | GC17M075941 | 8.251636505 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOX1 |
| AKR1C2 | Aldo-Keto Reductase Family 1 Member C2 | Protein Coding | 52 | GC10M004987 | 8.24772644 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C2 |
| IGF2R | Insulin Like Growth Factor 2 Receptor | Protein Coding | 52 | GC06P159969 | 8.232765198 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2R |
| LPA | Lipoprotein(A) | Protein Coding | 44 | GC06M160531 | 8.226680756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPA |
| AKR1B1 | Aldo-Keto Reductase Family 1 Member B | Protein Coding | 53 | GC07M134442 | 8.226289749 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP9 |

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|----------|---|----------------|----|-------------|-------------|---|
| CLOCK | Clock Circadian Regulator | Protein Coding | 51 | GC04M055427 | 8.168092728 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1B1 |
| GPX1 | Glutathione Peroxidase 1 | Protein Coding | 52 | GC03M051566 | 8.151756287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLOCK |
| MIR22 | MicroRNA 22 | RNA Gene | 23 | GC17M001713 | 8.137874603 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX1 |
| ALDH1A1 | Aldehyde Dehydrogenase 1 Family Member A1 | Protein Coding | 54 | GC09M072900 | 8.133259773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR22 |
| COG2 | Component Of Oligomeric Golgi Complex 2 | Protein Coding | 47 | GC01P230642 | 8.130456924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A1 |
| UROD | Uroporphyrinogen Decarboxylase | Protein Coding | 52 | GC01P045458 | 8.115438461 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COG2 |
| BRCA1 | BRCA1 DNA Repair Associated | Protein Coding | 56 | GC17M043044 | 8.113157272 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROD |
| CLCNKA | Chloride Voltage-Gated Channel Ka | Protein Coding | 47 | GC01P016018 | 8.101045609 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRCA1 |
| EPM2A | EPM2A Glucan Phosphatase, Laforin | Protein Coding | 50 | GC06M145382 | 8.040835381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCNKA |
| JUN | Jun Proto-Oncogene, AP-1 Transcription Factor Subunit | Protein Coding | 55 | GC01M058780 | 8.033901215 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPM2A |
| SLC52A2 | Solute Carrier Family 52 Member 2 | Protein Coding | 46 | GC08P144333 | 8.015874863 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUN |
| AHSG | Alpha 2-HS Glycoprotein | Protein Coding | 51 | GC03P186636 | 8.000261307 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC52A2 |
| FFAR3 | Free Fatty Acid Receptor 3 | Protein Coding | 44 | GC19P073871 | 7.985510826 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHSG |
| DSP | Desmoplakin | Protein Coding | 57 | GC06P007541 | 7.967627048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR3 |
| TNFRSF11 | TNF Receptor Superfamily Member 11b | Protein Coding | 54 | GC08M118923 | 7.947682381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSP |

| Gene Symbol | Gene Name | Category | Chromosome | Gene ID | RefSeq ID | NCBI Link |
|-------------|---|----------------|------------|-------------|-------------|---|
| ACO1 | Aconitase 1 | Protein Coding | 51 | GC09P032374 | 7.935599327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACO1 |
| APC | APC Regulator Of WNT Signaling Pathway | Protein Coding | 56 | GC05P112707 | 7.932646751 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APC |
| CASP8 | Caspase 8 | Protein Coding | 59 | GC02P201233 | 7.92381525 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP8 |
| GHR | Growth Hormone Receptor | Protein Coding | 53 | GC05P042429 | 7.920368671 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHR |
| FGFR4 | Fibroblast Growth Factor Receptor 4 | Protein Coding | 59 | GC05P177086 | 7.900533676 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR4 |
| LBR | Lamin B Receptor | Protein Coding | 54 | GC01M225401 | 7.891428947 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBR |
| TDO2 | Tryptophan 2,3-Dioxygenase | Protein Coding | 53 | GC04P155854 | 7.886833191 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDO2 |
| NOS2 | Nitric Oxide Synthase 2 | Protein Coding | 56 | GC17M027756 | 7.879232407 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS2 |
| DBH | Dopamine Beta-Hydroxylase | Protein Coding | 59 | GC09P133636 | 7.875431061 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBH |
| GUSB | Glucuronidase Beta | Protein Coding | 54 | GC07M065960 | 7.864967823 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUSB |
| GRIA4 | Glutamate Ionotropic Receptor AMPA Type Subunit 4 | Protein Coding | 56 | GC11P105609 | 7.864396095 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA4 |
| PKLR | Pyruvate Kinase L/R | Protein Coding | 53 | GC01M155289 | 7.860248566 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKLR |
| TKT | Transketolase | Protein Coding | 52 | GC03M053224 | 7.831721306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TKT |
| TSPO | Translocator Protein | Protein Coding | 51 | GC22P043151 | 7.831576824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPO |
| ELANE | Elastase, Neutrophil Expressed | Protein Coding | 58 | GC19P003656 | 7.827675819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF11B |

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| ACSM3 | Acyl-CoA Synthetase Medium Chain Family Member 3 | Protein Coding | 46 | GC16P020610 | 7.801516533 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELANE |
| FTH1 | Ferritin Heavy Chain 1 | Protein Coding | 57 | GC11M061959 | 7.793233395 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM3 |
| SNCA | Synuclein Alpha | Protein Coding | 59 | GC04M089724 | 7.786792278 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTH1 |
| ATM | ATM Serine/Threonine Kinase | Protein Coding | 60 | GC11P108222 | 7.77983284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNCA |
| APOA4 | Apolipoprotein A4 | Protein Coding | 48 | GC11M116820 | 7.776916027 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATM |
| PIK3R1 | Phosphoinositide-3-Kinase Regulatory Subunit 1 | Protein Coding | 57 | GC05P068215 | 7.765260696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA4 |
| DNMT1 | DNA Methyltransferase 1 | Protein Coding | 59 | GC19M010133 | 7.755319595 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R1 |
| SUCLA2 | Succinate-CoA Ligase ADP-Forming Subunit Beta | Protein Coding | 53 | GC13M047745 | 7.749754429 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNMT1 |
| ICAM1 | Intercellular Adhesion Molecule 1 | Protein Coding | 57 | GC19P010749 | 7.744787693 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLA2 |
| MEN1 | Menin 1 | Protein Coding | 51 | GC11M064803 | 7.738993168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM1 |
| FTL | Ferritin Light Chain | Protein Coding | 52 | GC19P048965 | 7.7378335 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEN1 |
| OXA1L | OXA1L Mitochondrial Inner Membrane Protein | Protein Coding | 45 | GC14P022766 | 7.737726212 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTL |
| TPH1 | Tryptophan Hydroxylase 1 | Protein Coding | 52 | GC11M018040 | 7.725982666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXA1L |
| COX4I1 | Cytochrome C Oxidase Subunit 4I1 | Protein Coding | 52 | GC16P085798 | 7.713577747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPH1 |
| SLC9A1 | Solute Carrier Family 9 Member A1 | Protein Coding | 57 | GC01M027239 | 7.711806297 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX4I1 |

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| GCH1 | GTP Cyclohydrolase 1 | Protein Coding | 53 | GC14M054842 | 7.711480618 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A1 |
| AKR1C1 | Aldo-Keto Reductase Family 1 Member C1 | Protein Coding | 50 | GC10P004963 | 7.708277702 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCH1 |
| F12 | Coagulation Factor XII | Protein Coding | 56 | GC05M177402 | 7.694033146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C1 |
| ABHD5 | Abhydrolase Domain Containing 5, Lysophosphatidic Acid Acyltransferase | Protein Coding | 51 | GC03P043707 | 7.663006783 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F12 |
| AMN | Amnion Associated Transmembrane Protein | Protein Coding | 47 | GC14P102922 | 7.659276962 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABHD5 |
| NR0B2 | Nuclear Receptor Subfamily 0 Group B Member 2 | Protein Coding | 50 | GC01M027236 | 7.647449017 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMN |
| CRAT | Carnitine O-Acetyltransferase | Protein Coding | 51 | GC09M129094 | 7.64017868 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR0B2 |
| ALDH1B1 | Aldehyde Dehydrogenase 1 Family Member B1 | Protein Coding | 50 | GC09P038392 | 7.639844418 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRAT |
| AFP | Alpha Fetoprotein | Protein Coding | 53 | GC04P073431 | 7.626152992 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1B1 |
| UGT1A5 | UDP Glucuronosyltransferase Family 1 Member A5 | Protein Coding | 40 | GC02P233712 | 7.624723434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFP |
| CTNNB1 | Catenin Beta 1 | Protein Coding | 60 | GC03P041194 | 7.623961449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A5 |
| SLC5A8 | Solute Carrier Family 5 Member 8 | Protein Coding | 49 | GC12M101155 | 7.623325348 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNB1 |
| AKR1C4 | Aldo-Keto Reductase Family 1 Member C4 | Protein Coding | 53 | GC10P005195 | 7.621516705 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A8 |
| ACP5 | Acid Phosphatase 5, Tartrate Resistant | Protein Coding | 53 | GC19M011574 | 7.61563921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1C4 |
| CCND1 | Cyclin D1 | Protein Coding | 60 | GC11P069641 | 7.614154339 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP5 |

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| | | | | | | | ne=CCND1 |
| KYAT1 | Kynurenine Aminotransferase 1 | Protein Coding | 47 | GC09M128833 | 7.60359478 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KYAT1 |
| NOS1 | Nitric Oxide Synthase 1 | Protein Coding | 56 | GC12M117208 | 7.60078907 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS1 |
| SULT1A3 | Sulfotransferase Family 1A Member 3 | Protein Coding | 43 | GC16P030199 | 7.598351002 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A3 |
| CYCS | Cytochrome C, Somatic | Protein Coding | 55 | GC07M025118 | 7.579985619 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYCS |
| ACLY | ATP Citrate Lyase | Protein Coding | 53 | GC17M041866 | 7.559963703 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACLY |
| CDKN3 | Cyclin Dependent Kinase Inhibitor 3 | Protein Coding | 48 | GC14P054398 | 7.558909893 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN3 |
| JAK2 | Janus Kinase 2 | Protein Coding | 60 | GC09P004985 | 7.554831028 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK2 |
| STAT3 | Signal Transducer And Activator Of Transcription 3 | Protein Coding | 61 | GC17M042313 | 7.553854942 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT3 |
| HCRT | Hypocretin Neuropeptide Precursor | Protein Coding | 46 | GC17M051782 | 7.507509232 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCRT |
| SQSTM1 | Sequestosome 1 | Protein Coding | 55 | GC05P179806 | 7.495340824 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SQSTM1 |
| DBT | Dihydroliipoamide Branched Chain Transacylase E2 | Protein Coding | 49 | GC01M100186 | 7.495174885 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBT |
| TNFRSF11A | TNF Receptor Superfamily Member 11a | Protein Coding | 54 | GC18P062325 | 7.492922783 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF11A |
| PHYH | Phytanoyl-CoA 2-Hydroxylase | Protein Coding | 52 | GC10M013277 | 7.48562479 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHYH |
| PYY | Peptide YY | Protein Coding | 49 | GC17M043952 | 7.484090805 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYY |
| VLDLR | Very Low Density Lipoprotein Receptor | Protein Coding | 56 | GC09P002611 | 7.477643013 | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VLDLR |

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| CSF2 | Colony Stimulating Factor 2 | Protein Coding | 51 | GC05P132073 | 7.462800026 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VLDLR |
| FOXO1 | Forkhead Box O1 | Protein Coding | 56 | GC13M040555 | 7.41369772 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2 |
| TTPA | Alpha Tocopherol Transfer Protein | Protein Coding | 47 | GC08M063048 | 7.413542747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO1 |
| LTC4S | Leukotriene C4 Synthase | Protein Coding | 49 | GC05P179793 | 7.400671959 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTPA |
| GSTZ1 | Glutathione S-Transferase Zeta 1 | Protein Coding | 48 | GC14P077320 | 7.394896507 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTC4S |
| ACACB | Acetyl-CoA Carboxylase Beta | Protein Coding | 52 | GC12P109116 | 7.383708 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTZ1 |
| CRYAA | Crystallin Alpha A | Protein Coding | 52 | GC21P043169 | 7.340756893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACACB |
| SLC10A1 | Solute Carrier Family 10 Member 1 | Protein Coding | 51 | GC14M069775 | 7.333871365 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAA |
| OPLAH | 5-Oxoprolinase, ATP-Hydrolysing | Protein Coding | 50 | GC08M144278 | 7.333218098 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC10A1 |
| IGF2BP2 | Insulin Like Growth Factor 2 mRNA Binding Protein 2 | Protein Coding | 51 | GC03M185643 | 7.331263065 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPLAH |
| CD320 | CD320 Molecule | Protein Coding | 47 | GC19M008302 | 7.313445091 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP2 |
| PTPN11 | Protein Tyrosine Phosphatase Non-Receptor Type 11 | Protein Coding | 61 | GC12P112418 | 7.310684204 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD320 |
| HLA-B | Major Histocompatibility Complex, Class I, B | Protein Coding | 52 | GC06M071682 | 7.308247089 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN11 |
| CCK | Cholecystokinin | Protein Coding | 48 | GC03M042274 | 7.304950714 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-B |
| TBXAS1 | Thromboxane A Synthase 1 | Protein Coding | 56 | GC07P139777 | 7.303420544 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCK |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXAS1 |

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| ACY1 | Aminoacylase 1 | Protein Coding | 52 | GC03P051983 | 7.282396793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXAS1 |
| CYP4V2 | Cytochrome P450 Family 4 Subfamily V Member 2 | Protein Coding | 48 | GC04P186191 | 7.213627338 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACY1 |
| KCNJ5 | Potassium Inwardly Rectifying Channel Subfamily J Member 5 | Protein Coding | 53 | GC11P128891 | 7.193699837 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4V2 |
| MIR29C | MicroRNA 29c | RNA Gene | 21 | GC01M207811 | 7.183753967 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ5 |
| SLC2A3 | Solute Carrier Family 2 Member 3 | Protein Coding | 55 | GC12M007919 | 7.150427818 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29C |
| CBR1 | Carbonyl Reductase 1 | Protein Coding | 51 | GC21P036069 | 7.138096809 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A3 |
| IL2 | Interleukin 2 | Protein Coding | 53 | GC04M122451 | 7.137097359 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBR1 |
| SLC6A3 | Solute Carrier Family 6 Member 3 | Protein Coding | 57 | GC05M001392 | 7.135263443 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2 |
| PLA2G1B | Phospholipase A2 Group IB | Protein Coding | 51 | GC12M120322 | 7.106545925 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A3 |
| RORA | RAR Related Orphan Receptor A | Protein Coding | 55 | GC15M060488 | 7.092875957 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G1B |
| SULT2A1 | Sulfotransferase Family 2A Member 1 | Protein Coding | 50 | GC19M047870 | 7.092458248 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RORA |
| IL13 | Interleukin 13 | Protein Coding | 50 | GC05P132656 | 7.088688374 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT2A1 |
| PGK1 | Phosphoglycerate Kinase 1 | Protein Coding | 56 | GC0XP078032 | 7.080644131 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL13 |
| CD4 | CD4 Molecule | Protein Coding | 57 | GC12P006786 | 7.079792976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGK1 |
| TYR | Tyrosinase | Protein Coding | 55 | GC11P089177 | 7.075667381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD4 |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYR |

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| FAAH | Fatty Acid Amide Hydrolase | Protein Coding | 54 | GC01P046394 | 7.074492455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAAH |
| CCL5 | C-C Motif Chemokine Ligand 5 | Protein Coding | 51 | GC17M035871 | 7.05864048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL5 |
| HMBS | Hydroxymethylbilane Synthase | Protein Coding | 51 | GC11P119084 | 7.051350594 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMBS |
| KCNJ10 | Potassium Inwardly Rectifying Channel Subfamily J Member 10 | Protein Coding | 52 | GC01M159998 | 7.050767422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ10 |
| CACNA1S | Calcium Voltage-Gated Channel Subunit Alpha1 S | Protein Coding | 55 | GC01M201008 | 7.044938564 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1S |
| EIF2AK3 | Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 | Protein Coding | 55 | GC02M088556 | 7.033459187 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK3 |
| ACSL4 | Acyl-CoA Synthetase Long Chain Family Member 4 | Protein Coding | 52 | GC0XM109624 | 7.020869732 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL4 |
| PTS | 6-Pyruvoyltetrahydropterin Synthase | Protein Coding | 51 | GC11P112226 | 6.987995625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTS |
| ACTB | Actin Beta | Protein Coding | 56 | GC07M005527 | 6.978267193 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTB |
| FBP2 | Fructose-Bisphosphatase 2 | Protein Coding | 50 | GC09M094558 | 6.97452116 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBP2 |
| SULT1A2 | Sulfotransferase Family 1A Member 2 | Protein Coding | 48 | GC16M028591 | 6.969522476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A2 |
| FXN | Frataxin | Protein Coding | 52 | GC09P069035 | 6.963536739 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FXN |
| FGFR3 | Fibroblast Growth Factor Receptor 3 | Protein Coding | 63 | GC04P001795 | 6.953905582 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR3 |
| ALAS2 | 5'-Aminolevulinate Synthase 2 | Protein Coding | 51 | GC0XM055009 | 6.94052887 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAS2 |
| SULT1E1 | Sulfotransferase Family 1E Member 1 | Protein Coding | 50 | GC04M069823 | 6.935936451 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1E1 |

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| GOT1 | Glutamic-Oxaloacetic Transaminase 1 | Protein Coding | 52 | GC10M099396 | 6.932769299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1E1 |
| FTCD-AS1 | FTCD Antisense RNA 1 | RNA Gene | 18 | GC21P046151 | 6.917957783 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOT1 |
| PARP1 | Poly(ADP-Ribose) Polymerase 1 | Protein Coding | 58 | GC01M226360 | 6.91354847 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTCD-AS1 |
| TARDBP | TAR DNA Binding Protein | Protein Coding | 53 | GC01P011013 | 6.906384468 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP1 |
| IL1A | Interleukin 1 Alpha | Protein Coding | 52 | GC02M112773 | 6.887263298 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TARDBP |
| HPGD | 15-Hydroxyprostaglandin Dehydrogenase | Protein Coding | 53 | GC04M174490 | 6.878279209 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1A |
| CCR6 | C-C Motif Chemokine Receptor 6 | Protein Coding | 51 | GC06P167111 | 6.876591682 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPGD |
| CSN1S1 | Casein Alpha S1 | Protein Coding | 43 | GC04P069932 | 6.874129295 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR6 |
| APOC1 | Apolipoprotein C1 | Protein Coding | 46 | GC19P044914 | 6.873025417 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN1S1 |
| IDO1 | Indoleamine 2,3-Dioxygenase 1 | Protein Coding | 53 | GC08P039891 | 6.860894203 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC1 |
| FOS | Fos Proto-Oncogene, AP-1 Transcription Factor Subunit | Protein Coding | 57 | GC14P075278 | 6.856826782 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDO1 |
| PIK3CG | Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Gamma | Protein Coding | 55 | GC07P106865 | 6.855944633 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOS |
| ADORA2A | Adenosine A2a Receptor | Protein Coding | 53 | GC22P024417 | 6.848574162 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CG |
| MAPK14 | Mitogen-Activated Protein Kinase 14 | Protein Coding | 58 | GC06P092286 | 6.802408218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2A |
| GUCY2C | Guanylate Cyclase 2C | Protein Coding | 52 | GC12M014612 | 6.80224371 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK14 |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCY2C |

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| MAPK10 | Mitogen-Activated Protein Kinase 10 | Protein Coding | 56 | GC04M085990 | 6.799727917 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK10 |
| AGT | Angiotensinogen | Protein Coding | 56 | GC01M230690 | 6.794569969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGT |
| IL18 | Interleukin 18 | Protein Coding | 50 | GC11M112143 | 6.792854786 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18 |
| BPGM | Bisphosphoglycerate Mutase | Protein Coding | 52 | GC07P134646 | 6.783220291 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BPGM |
| SLPI | Secretory Leukocyte Peptidase Inhibitor | Protein Coding | 47 | GC20M045252 | 6.7794981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLPI |
| LIAS | Lipoic Acid Synthetase | Protein Coding | 48 | GC04P039499 | 6.778037071 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIAS |
| AMT | Aminomethyltransferase | Protein Coding | 51 | GC03M051568 | 6.773910046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMT |
| GPI | Glucose-6-Phosphate Isomerase | Protein Coding | 55 | GC19P034359 | 6.765838146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPI |
| MAPK8 | Mitogen-Activated Protein Kinase 8 | Protein Coding | 57 | GC10P048306 | 6.759390831 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK8 |
| BRAF | B-Raf Proto-Oncogene, Serine/Threonine Kinase | Protein Coding | 60 | GC07M140742 | 6.748792171 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRAF |
| YARS2 | Tyrosyl-TRNA Synthetase 2 | Protein Coding | 51 | GC12M032819 | 6.745001793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YARS2 |
| RNASE3 | Ribonuclease A Family Member 3 | Protein Coding | 46 | GC14P020891 | 6.725999355 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE3 |
| GSK3B | Glycogen Synthase Kinase 3 Beta | Protein Coding | 57 | GC03M119821 | 6.701512337 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSK3B |
| BMP2 | Bone Morphogenetic Protein 2 | Protein Coding | 53 | GC20P006767 | 6.691226959 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP2 |
| MMP3 | Matrix Metallopeptidase 3 | Protein Coding | 57 | GC11M102835 | 6.690543175 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP3 |

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| FABP1 | Fatty Acid Binding Protein 1 | Protein Coding | 49 | GC02M088122 | 6.688127518 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP1 |
| ALDH3A1 | Aldehyde Dehydrogenase 3 Family Member A1 | Protein Coding | 52 | GC17M019737 | 6.668470383 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3A1 |
| HSPG2 | Heparan Sulfate Proteoglycan 2 | Protein Coding | 54 | GC01M021822 | 6.655029297 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPG2 |
| MMP2 | Matrix Metalloproteinase 2 | Protein Coding | 60 | GC16P055390 | 6.633100986 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP2 |
| ERCC1 | ERCC Excision Repair 1, Endonuclease Non-Catalytic Subunit | Protein Coding | 52 | GC19M070729 | 6.630684376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC1 |
| CD38 | CD38 Molecule | Protein Coding | 53 | GC04P019223 | 6.6181674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD38 |
| TIMP1 | TIMP Metalloproteinase Inhibitor 1 | Protein Coding | 52 | GC0XP047711 | 6.613132477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP1 |
| GMPS | Guanine Monophosphate Synthase | Protein Coding | 51 | GC03P155870 | 6.612122536 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GMPS |
| INPPL1 | Inositol Polyphosphate Phosphatase Like 1 | Protein Coding | 55 | GC11P072223 | 6.6092906 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPPL1 |
| TSC2 | TSC Complex Subunit 2 | Protein Coding | 56 | GC16P013513 | 6.607493401 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC2 |
| STS | Steroid Sulfatase | Protein Coding | 52 | GC0XP007146 | 6.60575819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STS |
| PAX4 | Paired Box 4 | Protein Coding | 47 | GC07M127610 | 6.605308533 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX4 |
| ALDH1A2 | Aldehyde Dehydrogenase 1 Family Member A2 | Protein Coding | 55 | GC15M121963 | 6.603302479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A2 |
| PTH1LH | Parathyroid Hormone Like Hormone | Protein Coding | 52 | GC12M027959 | 6.598110199 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH1LH |
| BAAT | Bile Acid-CoA:Amino Acid N-Acyltransferase | Protein Coding | 50 | GC09M101354 | 6.590001106 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAAT |

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| CHKA | Choline Kinase Alpha | Protein Coding | 49 | GC11M068052 | 6.575095654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAAT |
| ELN | Elastin | Protein Coding | 50 | GC07P074027 | 6.564837456 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHKA |
| WDR72 | WD Repeat Domain 72 | Protein Coding | 43 | GC15M125660 | 6.55697155 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELN |
| HTT | Huntingtin | Protein Coding | 51 | GC04P003041 | 6.549586296 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR72 |
| STAT1 | Signal Transducer And Activator Of Transcription 1 | Protein Coding | 60 | GC02M190908 | 6.545604706 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTT |
| ALOX15 | Arachidonate 15-Lipoxygenase | Protein Coding | 52 | GC17M004630 | 6.537812233 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT1 |
| FFAR4 | Free Fatty Acid Receptor 4 | Protein Coding | 47 | GC10P093566 | 6.531475067 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15 |
| CSF1 | Colony Stimulating Factor 1 | Protein Coding | 51 | GC01P109911 | 6.528945923 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR4 |
| PRKN | Parkin RBR E3 Ubiquitin Protein Ligase | Protein Coding | 53 | GC06M161348 | 6.517373085 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1 |
| SOAT2 | Sterol O-Acyltransferase 2 | Protein Coding | 50 | GC12P053103 | 6.513618469 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKN |
| NTS | Neurotensin | Protein Coding | 48 | GC12P085876 | 6.508972645 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOAT2 |
| HSD17B1 | Hydroxysteroid 17-Beta Dehydrogenase 1 | Protein Coding | 48 | GC17P061989 | 6.502941608 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTS |
| KNG1 | Kininogen 1 | Protein Coding | 55 | GC03P186717 | 6.496859074 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B1 |
| HBA1 | Hemoglobin Subunit Alpha 1 | Protein Coding | 49 | GC16P013428 | 6.478796959 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KNG1 |
| ESR2 | Estrogen Receptor 2 | Protein Coding | 56 | GC14M064084 | 6.464812279 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA1 |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR2 |

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| ERBB2 | Erb-B2 Receptor Tyrosine Kinase 2 | Protein Coding | 62 | GC17P039687 | 6.462425709 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB2 |
| HP | Haptoglobin | Protein Coding | 52 | GC16P072372 | 6.458934307 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HP |
| PTGIS | Prostaglandin I2 Synthase | Protein Coding | 52 | GC20M049503 | 6.456087112 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIS |
| ATF4 | Activating Transcription Factor 4 | Protein Coding | 52 | GC22P039519 | 6.442789555 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF4 |
| THBD | Thrombomodulin | Protein Coding | 53 | GC20M023026 | 6.435276985 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBD |
| DIO2 | Iodothyronine Deiodinase 2 | Protein Coding | 46 | GC14M080197 | 6.413453579 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIO2 |
| PDK1 | Pyruvate Dehydrogenase Kinase 1 | Protein Coding | 53 | GC02P172555 | 6.402394295 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDK1 |
| IFNB1 | Interferon Beta 1 | Protein Coding | 50 | GC09M021077 | 6.401349068 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNB1 |
| LRP1 | LDL Receptor Related Protein 1 | Protein Coding | 53 | GC12P057128 | 6.399954319 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP1 |
| VCP | Valosin Containing Protein | Protein Coding | 57 | GC09M035056 | 6.39056921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCP |
| MOGS | Mannosyl-Oligosaccharide Glucosidase | Protein Coding | 50 | GC02M074461 | 6.386434078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGS |
| MIR3944 | MicroRNA 3944 | RNA Gene | 15 | GC10M133371 | 6.384291649 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR3944 |
| GPAM | Glycerol-3-Phosphate Acyltransferase, Mitochondrial | Protein Coding | 50 | GC10M112148 | 6.383892059 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAM |
| PPT1 | Palmitoyl-Protein Thioesterase 1 | Protein Coding | 53 | GC01M040103 | 6.374232292 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPT1 |
| CTSD | Cathepsin D | Protein Coding | 59 | GC11M001752 | 6.372982979 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSD |

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| HRAS | HRas Proto-Oncogene, GTPase | Protein Coding | 59 | GC11M004421 | 6.359884739 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSD |
| PLAT | Plasminogen Activator, Tissue Type | Protein Coding | 57 | GC08M042174 | 6.354998589 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRAS |
| GRIA3 | Glutamate Ionotropic Receptor AMPA Type Subunit 3 | Protein Coding | 58 | GC0XP123184 | 6.331629753 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAT |
| AVP | Arginine Vasopressin | Protein Coding | 51 | GC20M003082 | 6.322710514 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA3 |
| EGFR | Epidermal Growth Factor Receptor | Protein Coding | 62 | GC07P055019 | 6.309800625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVP |
| PLG | Plasminogen | Protein Coding | 56 | GC06P160702 | 6.293350697 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGFR |
| ACHE | Acetylcholinesterase (Cartwright Blood Group) | Protein Coding | 53 | GC07M100889 | 6.264330864 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLG |
| CASP3 | Caspase 3 | Protein Coding | 57 | GC04M184627 | 6.237726212 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACHE |
| ST3GAL4 | ST3 Beta-Galactoside Alpha-2,3-Sialyltransferase 4 | Protein Coding | 50 | GC11P126355 | 6.23571682 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP3 |
| SLC30A8 | Solute Carrier Family 30 Member 8 | Protein Coding | 48 | GC08P116950 | 6.219080925 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST3GAL4 |
| DLAT | Dihydroliipoamide S-Acetyltransferase | Protein Coding | 53 | GC11P112026 | 6.217043877 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC30A8 |
| PDGFRB | Platelet Derived Growth Factor Receptor Beta | Protein Coding | 60 | GC05M150113 | 6.213683605 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLAT |
| GYG1 | Glycogenin 1 | Protein Coding | 53 | GC03P148991 | 6.206664085 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRB |
| GPHN | Gephyrin | Protein Coding | 55 | GC14P066507 | 6.201871395 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYG1 |
| ALDH3B1 | Aldehyde Dehydrogenase 3 Family Member B1 | Protein Coding | 47 | GC11P071077 | 6.159162521 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPHN |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3B1 |

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| PIEZO2 | Piezo Type Mechanosensitive Ion Channel Component 2 | Protein Coding | 43 | GC18M010670 | 6.156918049 | ne=ALDH3B1 https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIEZO2 |
| HTR1A | 5-Hydroxytryptamine Receptor 1A | Protein Coding | 53 | GC05M063960 | 6.154148102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1A |
| UGT2B17 | UDP Glucuronosyltransferase Family 2 Member B17 | Protein Coding | 47 | GC04M068537 | 6.152544975 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B17 |
| RUNX2 | RUNX Family Transcription Factor 2 | Protein Coding | 53 | GC06P092371 | 6.151573658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX2 |
| ALOX5AP | Arachidonate 5-Lipoxygenase Activating Protein | Protein Coding | 51 | GC13P030713 | 6.141064167 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5AP |
| PHGDH | Phosphoglycerate Dehydrogenase | Protein Coding | 57 | GC01P119660 | 6.127547741 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHGDH |
| WWOX | WW Domain Containing Oxidoreductase | Protein Coding | 52 | GC16P078099 | 6.116097927 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WWOX |
| ALDH1A3 | Aldehyde Dehydrogenase 1 Family Member A3 | Protein Coding | 52 | GC15P100877 | 6.111147881 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A3 |
| PLCB1 | Phospholipase C Beta 1 | Protein Coding | 53 | GC20P008061 | 6.108633518 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB1 |
| HSD3B1 | Hydroxy-Delta-5-Steroid Dehydrogenase, 3 Beta- And Steroid Delta-Isomerase 1 | Protein Coding | 49 | GC01P119507 | 6.108185291 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD3B1 |
| HMGA1 | High Mobility Group AT-Hook 1 | Protein Coding | 53 | GC06P092259 | 6.101529121 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGA1 |
| ESRRA | Estrogen Related Receptor Alpha | Protein Coding | 53 | GC11P064305 | 6.093959808 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRA |
| FLT3 | Fms Related Receptor Tyrosine Kinase 3 | Protein Coding | 60 | GC13M028003 | 6.085923672 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT3 |
| CPT1B | Carnitine Palmitoyltransferase 1B | Protein Coding | 51 | GC22M061624 | 6.08046484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1B |
| GFAP | Glial Fibrillary Acidic Protein | Protein Coding | 55 | GC17M051925 | 6.074894428 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFAP |

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|--------|---|----------------|----|-------------|-------------|---|
| CHAT | Choline O-Acetyltransferase | Protein Coding | 55 | GC10P049609 | 6.072665691 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHAT |
| DRD2 | Dopamine Receptor D2 | Protein Coding | 56 | GC11M113409 | 6.065560818 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD2 |
| ABCC3 | ATP Binding Cassette Subfamily C Member 3 | Protein Coding | 53 | GC17P050634 | 6.057796955 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC3 |
| SLC7A5 | Solute Carrier Family 7 Member 5 | Protein Coding | 51 | GC16M087830 | 6.049738884 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A5 |
| NNMT | Nicotinamide N-Methyltransferase | Protein Coding | 51 | GC11P114257 | 6.028770924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NNMT |
| FABP5 | Fatty Acid Binding Protein 5 | Protein Coding | 49 | GC08P081282 | 6.027059078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP5 |
| F9 | Coagulation Factor IX | Protein Coding | 54 | GC0XP139530 | 6.001158714 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F9 |
| AGTR1 | Angiotensin II Receptor Type 1 | Protein Coding | 58 | GC03P148697 | 5.997434139 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR1 |
| AIFM1 | Apoptosis Inducing Factor Mitochondria Associated 1 | Protein Coding | 56 | GC0XM130129 | 5.993622303 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIFM1 |
| TG | Thyroglobulin | Protein Coding | 51 | GC08P132866 | 5.986973286 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TG |
| LOX | Lysyl Oxidase | Protein Coding | 54 | GC05M122063 | 5.978069305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOX |
| SCP2 | Sterol Carrier Protein 2 | Protein Coding | 52 | GC01P052927 | 5.971069813 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCP2 |
| FOLH1 | Folate Hydrolase 1 | Protein Coding | 54 | GC11M099394 | 5.953541756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOLH1 |
| ANXA5 | Annexin A5 | Protein Coding | 52 | GC04M121667 | 5.934454441 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA5 |
| F3 | Coagulation Factor III, Tissue Factor | Protein Coding | 52 | GC01M094610 | 5.908566475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFAP |

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|---------|---|----------------|----|-------------|-------------|---|
| CREB1 | CAMP Responsive Element Binding Protein 1 | Protein Coding | 56 | GC02P207529 | 5.901594639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREB1 |
| MAP2K1 | Mitogen-Activated Protein Kinase Kinase 1 | Protein Coding | 60 | GC15P066386 | 5.901299477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K1 |
| HGSNAT | Heparan-Alpha-Glucosaminide N-Acetyltransferase | Protein Coding | 43 | GC08P043140 | 5.899586678 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGSNAT |
| CCL11 | C-C Motif Chemokine Ligand 11 | Protein Coding | 52 | GC17P034285 | 5.89659977 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL11 |
| SST | Somatostatin | Protein Coding | 47 | GC03M187668 | 5.892080307 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SST |
| ABCB7 | ATP Binding Cassette Subfamily B Member 7 | Protein Coding | 50 | GC0XM075053 | 5.879004955 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB7 |
| NFKBIA | NFKB Inhibitor Alpha | Protein Coding | 57 | GC14M035401 | 5.857986927 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKBIA |
| ASNS | Asparagine Synthetase (Glutamine-Hydrolyzing) | Protein Coding | 54 | GC07M097854 | 5.841819763 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASNS |
| HNRNPA1 | Heterogeneous Nuclear Ribonucleoprotein A1 | Protein Coding | 55 | GC12P054280 | 5.838124752 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPA1 |
| ARSH | Arylsulfatase Family Member H | Protein Coding | 39 | GC0XP003006 | 5.814909458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSH |
| UGT2B4 | UDP Glucuronosyltransferase Family 2 Member B4 | Protein Coding | 47 | GC04M069484 | 5.801847935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B4 |
| GAD1 | Glutamate Decarboxylase 1 | Protein Coding | 56 | GC02P170813 | 5.800939083 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD1 |
| GLO1 | Glyoxalase I | Protein Coding | 52 | GC06M071882 | 5.783227921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLO1 |
| TPH2 | Tryptophan Hydroxylase 2 | Protein Coding | 56 | GC12P071938 | 5.7809062 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPH2 |
| CTSA | Cathepsin A | Protein Coding | 53 | GC20P045890 | 5.778818607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSA |

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| CRH | Corticotropin Releasing Hormone | Protein Coding | 50 | GC08M066176 | 5.773647785 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSA |
| EP300 | E1A Binding Protein P300 | Protein Coding | 59 | GC22P045272 | 5.772609711 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRH |
| FGF2 | Fibroblast Growth Factor 2 | Protein Coding | 52 | GC04P122826 | 5.771065235 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EP300 |
| MGLL | Monoglyceride Lipase | Protein Coding | 51 | GC03M127689 | 5.765919685 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF2 |
| MAPK3 | Mitogen-Activated Protein Kinase 3 | Protein Coding | 56 | GC16M038440 | 5.753620148 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGLL |
| ABCC6 | ATP Binding Cassette Subfamily C Member 6 | Protein Coding | 53 | GC16M016148 | 5.726374149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK3 |
| AGPAT1 | 1-Acylglycerol-3-Phosphate O-Acyltransferase 1 | Protein Coding | 47 | GC06M032168 | 5.723912716 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC6 |
| DMD | Dystrophin | Protein Coding | 52 | GC0XM031097 | 5.719425678 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT1 |
| SULT2B1 | Sulfotransferase Family 2B Member 1 | Protein Coding | 52 | GC19P048552 | 5.709708691 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMD |
| MET | MET Proto-Oncogene, Receptor Tyrosine Kinase | Protein Coding | 61 | GC07P116672 | 5.706713676 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT2B1 |
| MAPT | Microtubule Associated Protein Tau | Protein Coding | 57 | GC17P045894 | 5.706644535 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MET |
| PTPN22 | Protein Tyrosine Phosphatase Non-Receptor Type 22 | Protein Coding | 54 | GC01M113813 | 5.706405664 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPT |
| PGAM2 | Phosphoglycerate Mutase 2 | Protein Coding | 51 | GC07M044062 | 5.703668118 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN22 |
| EGF | Epidermal Growth Factor | Protein Coding | 58 | GC04P109912 | 5.701561451 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM2 |
| ACSM1 | Acyl-CoA Synthetase Medium Chain Family Member 1 | Protein Coding | 46 | GC16M020634 | 5.699780464 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGF |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM1 |

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| PSEN1 | Presenilin 1 | Protein Coding | 60 | GC14P073136 | 5.696412563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN1 |
| F5 | Coagulation Factor V | Protein Coding | 53 | GC01M169511 | 5.685031414 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F5 |
| SLC5A4 | Solute Carrier Family 5 Member 4 | Protein Coding | 46 | GC22M032218 | 5.675738335 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A4 |
| NT5E | 5'-Nucleotidase Ecto | Protein Coding | 59 | GC06P085449 | 5.674291611 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NT5E |
| DCK | Deoxycytidine Kinase | Protein Coding | 50 | GC04P070992 | 5.673641205 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCK |
| SCN4A | Sodium Voltage-Gated Channel Alpha Subunit 4 | Protein Coding | 52 | GC17M063938 | 5.664630413 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN4A |
| THRA | Thyroid Hormone Receptor Alpha | Protein Coding | 55 | GC17P040058 | 5.65968132 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THRA |
| HLA-DRB1 | Major Histocompatibility Complex, Class II, DR Beta 1 | Protein Coding | 53 | GC06M071772 | 5.655965805 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DRB1 |
| HDAC9 | Histone Deacetylase 9 | Protein Coding | 56 | GC07P018086 | 5.649218082 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC9 |
| CREBBP | CREB Binding Protein | Protein Coding | 60 | GC16M008258 | 5.642336845 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREBBP |
| KARS1 | Lysyl-TRNA Synthetase 1 | Protein Coding | 52 | GC16M075800 | 5.635137081 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KARS1 |
| EIF2S1 | Eukaryotic Translation Initiation Factor 2 Subunit Alpha | Protein Coding | 50 | GC14P067359 | 5.618702412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2S1 |
| FABP3 | Fatty Acid Binding Protein 3 | Protein Coding | 50 | GC01M031365 | 5.583105087 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP3 |
| LPXN | Leupaxin | Protein Coding | 47 | GC11M099445 | 5.580239773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPXN |
| VDAC1 | Voltage Dependent Anion Channel 1 | Protein Coding | 53 | GC05M133975 | 5.569249153 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDAC1 |

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| EHMT2 | Euchromatic Histone Lysine Methyltransferase 2 | Protein Coding | 52 | GC06M031879 | 5.56857872 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EHMT2 |
| HNMT | Histamine N-Methyltransferase | Protein Coding | 52 | GC02P137964 | 5.568031788 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNMT |
| IL1RN | Interleukin 1 Receptor Antagonist | Protein Coding | 57 | GC02P123802 | 5.564380646 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RN |
| HLA-A | Major Histocompatibility Complex, Class I, A | Protein Coding | 52 | GC06P092113 | 5.557308197 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-A |
| FGFR2 | Fibroblast Growth Factor Receptor 2 | Protein Coding | 63 | GC10M121478 | 5.551764965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR2 |
| SMARCA4 | SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4 | Protein Coding | 57 | GC19P010932 | 5.540520191 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCA4 |
| GNRH1 | Gonadotropin Releasing Hormone 1 | Protein Coding | 47 | GC08M025419 | 5.540391922 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRH1 |
| ARNT | Aryl Hydrocarbon Receptor Nuclear Translocator | Protein Coding | 51 | GC01M150809 | 5.535038948 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARNT |
| ANPEP | Alanyl Aminopeptidase, Membrane | Protein Coding | 57 | GC15M089784 | 5.533632755 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANPEP |
| PRKCA | Protein Kinase C Alpha | Protein Coding | 57 | GC17P066302 | 5.513727188 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCA |
| CFH | Complement Factor H | Protein Coding | 54 | GC01P196621 | 5.510847569 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFH |
| SMPD2 | Sphingomyelin Phosphodiesterase 2 | Protein Coding | 47 | GC06P109440 | 5.505710602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD2 |
| KIT | KIT Proto-Oncogene, Receptor Tyrosine Kinase | Protein Coding | 60 | GC04P054657 | 5.501556873 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIT |
| TERT | Telomerase Reverse Transcriptase | Protein Coding | 58 | GC05M001253 | 5.497232914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERT |
| MBOAT7 | Membrane Bound O-Acyltransferase Domain Containing 7 | Protein Coding | 46 | GC19M054173 | 5.496452332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT7 |

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| TK1 | Thymidine Kinase 1 | Protein Coding | 52 | GC17M078175 | 5.495685577 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT7 |
| MTM1 | Myotubularin 1 | Protein Coding | 50 | GC0XP150562 | 5.492345333 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TK1 |
| SPTLC1 | Serine Palmitoyltransferase Long Chain Base Subunit 1 | Protein Coding | 53 | GC09M096508 | 5.490951538 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTM1 |
| NFKB1 | Nuclear Factor Kappa B Subunit 1 | Protein Coding | 60 | GC04P102501 | 5.488479137 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC1 |
| ERCC5 | ERCC Excision Repair 5, Endonuclease | Protein Coding | 51 | GC13P102845 | 5.477799416 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKB1 |
| SP1 | Sp1 Transcription Factor | Protein Coding | 53 | GC12P053380 | 5.475884914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC5 |
| HNRNPK | Heterogeneous Nuclear Ribonucleoprotein K | Protein Coding | 52 | GC09M096203 | 5.475253105 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP1 |
| NPPB | Natriuretic Peptide B | Protein Coding | 50 | GC01M011858 | 5.447532177 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPK |
| TNFRSF1B | TNF Receptor Superfamily Member 1B | Protein Coding | 56 | GC01P012301 | 5.443855286 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPB |
| SLC22A2 | Solute Carrier Family 22 Member 2 | Protein Coding | 50 | GC06M160195 | 5.439086437 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1B |
| SLC25A3 | Solute Carrier Family 25 Member 3 | Protein Coding | 51 | GC12P098593 | 5.434689522 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A2 |
| ABL1 | ABL Proto-Oncogene 1, Non-Receptor Tyrosine Kinase | Protein Coding | 59 | GC09P130713 | 5.431687832 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A3 |
| SCARB2 | Scavenger Receptor Class B Member 2 | Protein Coding | 53 | GC04M076158 | 5.430082798 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABL1 |
| ENPP2 | Ectonucleotide Pyrophosphatase/Phosphodiesterase 2 | Protein Coding | 52 | GC08M119556 | 5.429513454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB2 |
| DNM2 | Dynamin 2 | Protein Coding | 56 | GC19P010718 | 5.426211834 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP2 |

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| ENO3 | Enolase 3 | Protein Coding | 55 | GC17P004948 | 5.420696259 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO3 |
| IGFBP2 | Insulin Like Growth Factor Binding Protein 2 | Protein Coding | 51 | GC02P216632 | 5.415290833 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP2 |
| AGA | Aspartylglucosaminidase | Protein Coding | 52 | GC04M177430 | 5.402294636 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGA |
| UROS | Uroporphyrinogen III Synthase | Protein Coding | 48 | GC10M125784 | 5.398243904 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UROS |
| PDE5A | Phosphodiesterase 5A | Protein Coding | 52 | GC04M119494 | 5.394932747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE5A |
| BLVRB | Biliverdin Reductase B | Protein Coding | 46 | GC19M040447 | 5.39385891 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLVRB |
| SERPINC1 | Serpin Family C Member 1 | Protein Coding | 56 | GC01M174653 | 5.383127689 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINC1 |
| PLA2G5 | Phospholipase A2 Group V | Protein Coding | 48 | GC01P020028 | 5.379155159 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G5 |
| CD40LG | CD40 Ligand | Protein Coding | 57 | GC0XP136649 | 5.369486809 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40LG |
| NCOA2 | Nuclear Receptor Coactivator 2 | Protein Coding | 52 | GC08M070109 | 5.368606567 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA2 |
| CEL | Carboxyl Ester Lipase | Protein Coding | 52 | GC09P133061 | 5.360735893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEL |
| ADH5 | Alcohol Dehydrogenase 5 (Class III), Chi Polypeptide | Protein Coding | 53 | GC04M099070 | 5.359493732 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADH5 |
| ACSL1 | Acyl-CoA Synthetase Long Chain Family Member 1 | Protein Coding | 52 | GC04M184755 | 5.358801365 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL1 |
| VWF | Von Willebrand Factor | Protein Coding | 55 | GC12M005949 | 5.354763508 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VWF |
| FSHR | Follicle Stimulating Hormone Receptor | Protein Coding | 54 | GC02M048962 | 5.346429825 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSHR |

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| SAA1 | Serum Amyloid A1 | Protein Coding | 46 | GC11P018579 | 5.33243227 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAA1 |
| PSTPIP1 | Proline-Serine-Threonine Phosphatase Interacting Protein 1 | Protein Coding | 50 | GC15P076993 | 5.325975895 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSTPIP1 |
| PDHB | Pyruvate Dehydrogenase E1 Subunit Beta | Protein Coding | 52 | GC03M058428 | 5.320480824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHB |
| DAO | D-Amino Acid Oxidase | Protein Coding | 51 | GC12P108859 | 5.318780422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAO |
| SHC1 | SHC Adaptor Protein 1 | Protein Coding | 50 | GC01M154962 | 5.312389851 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHC1 |
| PTH1R | Parathyroid Hormone 1 Receptor | Protein Coding | 57 | GC03P046877 | 5.307143688 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH1R |
| GRIN2A | Glutamate Ionotropic Receptor NMDA Type Subunit 2A | Protein Coding | 59 | GC16M009753 | 5.30063343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2A |
| FABP12 | Fatty Acid Binding Protein 12 | Protein Coding | 38 | GC08M081524 | 5.29920435 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP12 |
| IL6R | Interleukin 6 Receptor | Protein Coding | 57 | GC01P154405 | 5.290779114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6R |
| RAD51 | RAD51 Recombinase | Protein Coding | 57 | GC15P040694 | 5.285461426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAD51 |
| HSP90AA1 | Heat Shock Protein 90 Alpha Family Class A Member 1 | Protein Coding | 57 | GC14M102080 | 5.282570362 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90AA1 |
| STAT6 | Signal Transducer And Activator Of Transcription 6 | Protein Coding | 57 | GC12M057095 | 5.278360844 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT6 |
| APEX1 | Apurinic/Apyrimidinic Endodeoxyribonuclease 1 | Protein Coding | 52 | GC14P020455 | 5.276880264 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APEX1 |
| SLC22A12 | Solute Carrier Family 22 Member 12 | Protein Coding | 51 | GC11P064609 | 5.276699543 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A12 |
| TP63 | Tumor Protein P63 | Protein Coding | 53 | GC03P189598 | 5.272655487 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP63 |

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| DDIT3 | DNA Damage Inducible Transcript 3 | Protein Coding | 52 | GC12M057516 | 5.258716583 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDIT3 |
| APOH | Apolipoprotein H | Protein Coding | 51 | GC17M066212 | 5.254735947 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOH |
| KMO | Kynurenine 3-Monooxygenase | Protein Coding | 53 | GC01P241532 | 5.254042149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMO |
| CTSB | Cathepsin B | Protein Coding | 59 | GC08M011842 | 5.253155708 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSB |
| SRC | SRC Proto-Oncogene, Non-Receptor Tyrosine Kinase | Protein Coding | 58 | GC20P037344 | 5.242369652 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRC |
| DGKB | Diacylglycerol Kinase Beta | Protein Coding | 50 | GC07M014145 | 5.21872282 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKB |
| GATA6 | GATA Binding Protein 6 | Protein Coding | 53 | GC18P022169 | 5.218309879 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA6 |
| IL3 | Interleukin 3 | Protein Coding | 52 | GC05P132060 | 5.218032837 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3 |
| CD46 | CD46 Molecule | Protein Coding | 55 | GC01P207752 | 5.215385437 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD46 |
| F10 | Coagulation Factor X | Protein Coding | 57 | GC13P113122 | 5.205245495 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F10 |
| FLNA | Filamin A | Protein Coding | 55 | GC0XM154348 | 5.204764843 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLNA |
| ACOT1 | Acyl-CoA Thioesterase 1 | Protein Coding | 42 | GC14P073493 | 5.202662945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT1 |
| PIK3CB | Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Beta | Protein Coding | 55 | GC03M138652 | 5.201896667 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CB |
| CDKN2A | Cyclin Dependent Kinase Inhibitor 2A | Protein Coding | 57 | GC09M021967 | 5.197295666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2A |
| ALOX15B | Arachidonate 15-Lipoxygenase Type B | Protein Coding | 48 | GC17P008039 | 5.185217857 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15B |

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| GSK3A | Glycogen Synthase Kinase 3 Alpha | Protein Coding | 56 | GC19M070637 | 5.179674149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15B |
| AQP2 | Aquaporin 2 | Protein Coding | 53 | GC12P049950 | 5.167989254 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSK3A |
| RPS6KB1 | Ribosomal Protein S6 Kinase B1 | Protein Coding | 55 | GC17P059893 | 5.164863586 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP2 |
| CXCL10 | C-X-C Motif Chemokine Ligand 10 | Protein Coding | 51 | GC04M076021 | 5.147573948 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KB1 |
| APBB1 | Amyloid Beta Precursor Protein Binding Family B Member 1 | Protein Coding | 51 | GC11M006936 | 5.13942337 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL10 |
| FDX1 | Ferredoxin 1 | Protein Coding | 45 | GC11P110429 | 5.134989262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APBB1 |
| CD44 | CD44 Molecule (Indian Blood Group) | Protein Coding | 55 | GC11P035139 | 5.127356052 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FDX1 |
| IL4I1 | Interleukin 4 Induced 1 | Protein Coding | 46 | GC19M070913 | 5.122427464 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD44 |
| IL17A | Interleukin 17A | Protein Coding | 50 | GC06P052186 | 5.119236469 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4I1 |
| AOC3 | Amine Oxidase Copper Containing 3 | Protein Coding | 52 | GC17P042851 | 5.119176865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17A |
| KAT5 | Lysine Acetyltransferase 5 | Protein Coding | 57 | GC11P065711 | 5.108136654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOC3 |
| HGF | Hepatocyte Growth Factor | Protein Coding | 58 | GC07M081699 | 5.10415411 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT5 |
| XRCC1 | X-Ray Repair Cross Complementing 1 | Protein Coding | 51 | GC19M043543 | 5.097961426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGF |
| FFAR1 | Free Fatty Acid Receptor 1 | Protein Coding | 47 | GC19P073870 | 5.093933582 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XRCC1 |
| EPAS1 | Endothelial PAS Domain Protein 1 | Protein Coding | 57 | GC02P046293 | 5.093504906 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FFAR1 |
| | | | | | | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPAS1 |

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| ABCC5 | ATP Binding Cassette Subfamily C Member 5 | Protein Coding | 51 | GC03M183919 | 5.09292078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC5 |
| ITGB2 | Integrin Subunit Beta 2 | Protein Coding | 57 | GC21M044885 | 5.083768845 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB2 |
| ACOT8 | Acyl-CoA Thioesterase 8 | Protein Coding | 44 | GC20M045841 | 5.071051598 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT8 |
| APPL1 | Adaptor Protein, Phosphotyrosine Interacting With PH Domain And Leucine Zipper 1 | Protein Coding | 51 | GC03P057227 | 5.065500736 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APPL1 |
| HMOX2 | Heme Oxygenase 2 | Protein Coding | 53 | GC16P004474 | 5.051269531 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX2 |
| CSNK2B | Casein Kinase 2 Beta | Protein Coding | 55 | GC06P092157 | 5.048334599 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2B |
| SRD5A3 | Steroid 5 Alpha-Reductase 3 | Protein Coding | 50 | GC04P055346 | 5.043519974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRD5A3 |
| BCR | BCR Activator Of RhoGEF And GTPase | Protein Coding | 59 | GC22P023179 | 5.043236256 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCR |
| CPT1C | Carnitine Palmitoyltransferase 1C | Protein Coding | 50 | GC19P049690 | 5.040052414 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1C |
| NGF | Nerve Growth Factor | Protein Coding | 58 | GC01M115285 | 5.035580635 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGF |
| RARA | Retinoic Acid Receptor Alpha | Protein Coding | 57 | GC17P040309 | 5.034917831 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RARA |
| OSBP | Oxysterol Binding Protein | Protein Coding | 47 | GC11M099460 | 5.02068615 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSBP |
| RELA | RELA Proto-Oncogene, NF-KB Subunit | Protein Coding | 59 | GC11M065653 | 5.020265102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELA |
| GPBAR1 | G Protein-Coupled Bile Acid Receptor 1 | Protein Coding | 47 | GC02P218259 | 5.01853466 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPBAR1 |
| SLC22A6 | Solute Carrier Family 22 Member 6 | Protein Coding | 51 | GC11M099607 | 5.0164814 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPAS1 |

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| SLC16A2 | Solute Carrier Family 16 Member 2 | Protein Coding | 50 | GC0XP074510 | 5.015535355 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A2 |
| RET | Ret Proto-Oncogene | Protein Coding | 61 | GC10P043237 | 5.005290031 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RET |
| DHODH | Dihydroorotate Dehydrogenase (Quinone) | Protein Coding | 53 | GC16P072008 | 5.001195908 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DHODH |
| PLCG1 | Phospholipase C Gamma 1 | Protein Coding | 53 | GC20P041136 | 4.999927521 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCG1 |
| IL6ST | Interleukin 6 Cytokine Family Signal Transducer | Protein Coding | 56 | GC05M055935 | 4.997031212 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6ST |
| SPHK1 | Sphingosine Kinase 1 | Protein Coding | 53 | GC17P076376 | 4.993997097 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPHK1 |
| SLC3A2 | Solute Carrier Family 3 Member 2 | Protein Coding | 50 | GC11P062856 | 4.993354797 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC3A2 |
| MIF | Macrophage Migration Inhibitory Factor | Protein Coding | 55 | GC22P023894 | 4.985460281 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIF |
| GIP | Gastric Inhibitory Polypeptide | Protein Coding | 44 | GC17M048958 | 4.984392643 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIP |
| GART | Phosphoribosylglycinamide Formyltransferase, Phosphoribosylglycinamide Synthetase, Phosphoribosylaminoimidazole Synthetase | Protein Coding | 50 | GC21M033503 | 4.982872963 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GART |
| SELP | Selectin P | Protein Coding | 52 | GC01M169558 | 4.982637405 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELP |
| RPS27A | Ribosomal Protein S27a | Protein Coding | 48 | GC02P055231 | 4.981519699 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS27A |
| GAST | Gastrin | Protein Coding | 46 | GC17P041712 | 4.976635933 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAST |
| TNFRSF1A | TNF Receptor Superfamily Member 1A | Protein Coding | 57 | GC12M006328 | 4.969126225 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1A |

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|---|---------|---|----------------|----|-------------|-------------|---|
| 1 | HLA-DQB | Major Histocompatibility Complex, Class II, DQ Beta 1 | Protein Coding | 48 | GC06M071781 | 4.959109306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DQB1 |
| | COASY | Coenzyme A Synthase | Protein Coding | 52 | GC17P042561 | 4.956408024 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COASY |
| | MYD88 | MYD88 Innate Immune Signal Transduction Adaptor | Protein Coding | 56 | GC03P038152 | 4.956139088 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYD88 |
| | CTSG | Cathepsin G | Protein Coding | 52 | GC14M024573 | 4.955893993 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSG |
| | PRKACA | Protein Kinase CAMP-Activated Catalytic Subunit Alpha | Protein Coding | 59 | GC19M014672 | 4.948847294 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKACA |
| | KDR | Kinase Insert Domain Receptor | Protein Coding | 60 | GC04M055078 | 4.945917606 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KDR |
| | DGAT2 | Diacylglycerol O-Acyltransferase 2 | Protein Coding | 49 | GC11P075759 | 4.939157963 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGAT2 |
| | HDAC1 | Histone Deacetylase 1 | Protein Coding | 57 | GC01P032292 | 4.924383163 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC1 |
| | BTK | Bruton Tyrosine Kinase | Protein Coding | 60 | GC0XM101349 | 4.922725201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTK |
| | VIM | Vimentin | Protein Coding | 57 | GC10P017227 | 4.918421745 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIM |
| | CHEK2 | Checkpoint Kinase 2 | Protein Coding | 61 | GC22M028687 | 4.904974937 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK2 |
| | CALR | Calreticulin | Protein Coding | 58 | GC19P012938 | 4.903204918 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALR |
| | HMGCS1 | 3-Hydroxy-3-Methylglutaryl-CoA Synthase 1 | Protein Coding | 48 | GC05M044196 | 4.901966095 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCS1 |
| | GAD2 | Glutamate Decarboxylase 2 | Protein Coding | 51 | GC10P026216 | 4.901376247 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD2 |
| | CYB5R3 | Cytochrome B5 Reductase 3 | Protein Coding | 52 | GC22M061501 | 4.898460865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB5R3 |

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| ALAS1 | 5'-Aminolevulinate Synthase 1 | Protein Coding | 50 | GC03P052198 | 4.893675804 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALAS1 |
| BAX | BCL2 Associated X, Apoptosis Regulator | Protein Coding | 57 | GC19P048954 | 4.886703491 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAX |
| ACOT4 | Acyl-CoA Thioesterase 4 | Protein Coding | 42 | GC14P073592 | 4.880039692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT4 |
| SPR | Sepiapterin Reductase | Protein Coding | 56 | GC02P072850 | 4.879478931 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPR |
| VHL | Von Hippel-Lindau Tumor Suppressor | Protein Coding | 54 | GC03P013681 | 4.872748375 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VHL |
| SETD2 | SET Domain Containing 2, Histone Lysine Methyltransferase | Protein Coding | 53 | GC03M047033 | 4.872437 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SETD2 |
| HBA2 | Hemoglobin Subunit Alpha 2 | Protein Coding | 48 | GC16P013429 | 4.87237978 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA2 |
| ACSL6 | Acyl-CoA Synthetase Long Chain Family Member 6 | Protein Coding | 47 | GC05M131949 | 4.870249748 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL6 |
| IDE | Insulin Degrading Enzyme | Protein Coding | 55 | GC10M092451 | 4.864925861 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDE |
| HSPA5 | Heat Shock Protein Family A (Hsp70) Member 5 | Protein Coding | 55 | GC09M125234 | 4.862672329 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA5 |
| ALDH3B2 | Aldehyde Dehydrogenase 3 Family Member B2 | Protein Coding | 45 | GC11M067662 | 4.860623837 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH3B2 |
| CLCN1 | Chloride Voltage-Gated Channel 1 | Protein Coding | 50 | GC07P143316 | 4.854913712 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN1 |
| NGFR | Nerve Growth Factor Receptor | Protein Coding | 54 | GC17P049495 | 4.847626686 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGFR |
| KRT18 | Keratin 18 | Protein Coding | 56 | GC12P052948 | 4.843678474 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT18 |
| HBG2 | Hemoglobin Subunit Gamma 2 | Protein Coding | 47 | GC11M006835 | 4.837977886 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBG2 |

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| PSPH | Phosphoserine Phosphatase | Protein Coding | 52 | GC07M061179 | 4.837378979 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSPH |
| GNPAT | Glyceronephosphate O-Acyltransferase | Protein Coding | 51 | GC01P231241 | 4.835204601 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNPAT |
| BACE1 | Beta-Secretase 1 | Protein Coding | 53 | GC11M117285 | 4.827996254 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACE1 |
| IGHE | Immunoglobulin Heavy Constant Epsilon | Protein Coding | 36 | GC14M113319 | 4.824530125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGHE |
| CASK | Calcium/Calmodulin Dependent Serine Protein Kinase | Protein Coding | 56 | GC0XM041514 | 4.822626591 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASK |
| DLST | Dihydrolipoamide S-Succinyltransferase | Protein Coding | 52 | GC14P074881 | 4.821403027 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLST |
| FLG | Filaggrin | Protein Coding | 47 | GC01M152828 | 4.818543434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLG |
| HYOU1 | Hypoxia Up-Regulated 1 | Protein Coding | 52 | GC11M119272 | 4.812234402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYOU1 |
| CDKL5 | Cyclin Dependent Kinase Like 5 | Protein Coding | 50 | GC0XP018425 | 4.80866766 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKL5 |
| AOC1 | Amine Oxidase Copper Containing 1 | Protein Coding | 49 | GC07P150824 | 4.807901382 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOC1 |
| GRIN1 | Glutamate Ionotropic Receptor NMDA Type Subunit 1 | Protein Coding | 57 | GC09P137184 | 4.80106926 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN1 |
| FUT2 | Fucosyltransferase 2 | Protein Coding | 52 | GC19P048695 | 4.799116611 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT2 |
| SLCO1B3 | Solute Carrier Organic Anion Transporter Family Member 1B3 | Protein Coding | 51 | GC12P020810 | 4.793128967 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1B3 |
| TACR1 | Tachykinin Receptor 1 | Protein Coding | 51 | GC02M075203 | 4.782237053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TACR1 |
| PIK3CD | Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Delta | Protein Coding | 60 | GC01P009628 | 4.779503822 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CD |

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| AIRE | Autoimmune Regulator | Protein Coding | 50 | GC21P044285 | 4.776328087 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIRE |
| ACSM2B | Acyl-CoA Synthetase Medium Chain Family Member 2B | Protein Coding | 40 | GC16M020547 | 4.77520895 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM2B |
| ATOX1 | Antioxidant 1 Copper Chaperone | Protein Coding | 46 | GC05M151743 | 4.772132397 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATOX1 |
| LCN2 | Lipocalin 2 | Protein Coding | 52 | GC09P128149 | 4.771922112 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCN2 |
| HSD17B2 | Hydroxysteroid 17-Beta Dehydrogenase 2 | Protein Coding | 50 | GC16P082068 | 4.765637875 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B2 |
| ACP1 | Acid Phosphatase 1 | Protein Coding | 50 | GC02P000402 | 4.764500618 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP1 |
| HSD17B7 | Hydroxysteroid 17-Beta Dehydrogenase 7 | Protein Coding | 50 | GC01P162790 | 4.741034031 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B7 |
| CDK1 | Cyclin Dependent Kinase 1 | Protein Coding | 54 | GC10P060772 | 4.737948895 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK1 |
| ANGPT2 | Angiopoietin 2 | Protein Coding | 55 | GC08M006499 | 4.737078667 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT2 |
| HSPB1 | Heat Shock Protein Family B (Small) Member 1 | Protein Coding | 59 | GC07P076302 | 4.732555866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB1 |
| SAT1 | Spermidine/Spermine N1-Acetyltransferase 1 | Protein Coding | 51 | GC0XP023784 | 4.724458218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAT1 |
| HSPA8 | Heat Shock Protein Family A (Hsp70) Member 8 | Protein Coding | 56 | GC11M123057 | 4.723155022 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA8 |
| TXNRD2 | Thioredoxin Reductase 2 | Protein Coding | 51 | GC22M019863 | 4.720499992 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXNRD2 |
| KCNQ1 | Potassium Voltage-Gated Channel Subfamily Q Member 1 | Protein Coding | 57 | GC11P002444 | 4.712696552 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNQ1 |
| HDC | Histidine Decarboxylase | Protein Coding | 51 | GC15M050241 | 4.712660789 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDC |

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| GRIN2B | Glutamate Ionotropic Receptor NMDA Type Subunit 2B | Protein Coding | 59 | GC12M013437 | 4.70554781 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2B |
| ACE2 | Angiotensin Converting Enzyme 2 | Protein Coding | 56 | GC0XM015494 | 4.698474884 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE2 |
| RAF1 | Raf-1 Proto-Oncogene, Serine/Threonine Kinase | Protein Coding | 61 | GC03M012583 | 4.69260931 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAF1 |
| NTRK2 | Neurotrophic Receptor Tyrosine Kinase 2 | Protein Coding | 60 | GC09P084668 | 4.689634323 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK2 |
| TIMM8A | Translocase Of Inner Mitochondrial Membrane 8A | Protein Coding | 48 | GC0XM101345 | 4.683206081 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMM8A |
| DNAH8 | Dynein Axonemal Heavy Chain 8 | Protein Coding | 44 | GC06P092313 | 4.681497574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAH8 |
| CROT | Carnitine O-Octanoyltransferase | Protein Coding | 46 | GC07P087369 | 4.68108654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CROT |
| YAP1 | Yes1 Associated Transcriptional Regulator | Protein Coding | 55 | GC11P102110 | 4.661038876 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YAP1 |
| LPCAT1 | Lysophosphatidylcholine Acyltransferase 1 | Protein Coding | 42 | GC05M001456 | 4.657835007 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT1 |
| IL7 | Interleukin 7 | Protein Coding | 50 | GC08M078689 | 4.655595779 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL7 |
| ANGPT1 | Angiopoietin 1 | Protein Coding | 53 | GC08M107246 | 4.639920712 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT1 |
| SFTPD | Surfactant Protein D | Protein Coding | 51 | GC10M079937 | 4.638412476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPD |
| SLCO1A2 | Solute Carrier Organic Anion Transporter Family Member 1A2 | Protein Coding | 44 | GC12M021264 | 4.631290436 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1A2 |
| ELOVL2 | ELOVL Fatty Acid Elongase 2 | Protein Coding | 45 | GC06M010980 | 4.627637386 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL2 |
| HSPA4 | Heat Shock Protein Family A (Hsp70) Member 4 | Protein Coding | 49 | GC05P133054 | 4.618183136 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA4 |

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| CSNK2A1 | Casein Kinase 2 Alpha 1 | Protein Coding | 57 | GC20M000472 | 4.617533207 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2A1 |
| SLC4A4 | Solute Carrier Family 4 Member 4 | Protein Coding | 53 | GC04P071063 | 4.614068985 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A4 |
| CNDP1 | Carnosine Dipeptidase 1 | Protein Coding | 50 | GC18P074534 | 4.612370491 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNDP1 |
| LTA4H | Leukotriene A4 Hydrolase | Protein Coding | 53 | GC12M096000 | 4.609683037 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA4H |
| CHGA | Chromogranin A | Protein Coding | 50 | GC14P092950 | 4.607313633 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHGA |
| KCNH2 | Potassium Voltage-Gated Channel Subfamily H Member 2 | Protein Coding | 57 | GC07M150944 | 4.600515842 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNH2 |
| CYBA | Cytochrome B-245 Alpha Chain | Protein Coding | 54 | GC16M088643 | 4.597821712 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBA |
| ACSM2A | Acyl-CoA Synthetase Medium Chain Family Member 2A | Protein Coding | 39 | GC16P020463 | 4.596745014 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM2A |
| PTGES | Prostaglandin E Synthase | Protein Coding | 48 | GC09M129738 | 4.596619606 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES |
| TFAP2A | Transcription Factor AP-2 Alpha | Protein Coding | 53 | GC06M010393 | 4.594346046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFAP2A |
| SLC6A14 | Solute Carrier Family 6 Member 14 | Protein Coding | 48 | GC0XP116436 | 4.591845036 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A14 |
| HTR2C | 5-Hydroxytryptamine Receptor 2C | Protein Coding | 52 | GC0XP114584 | 4.588009834 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2C |
| PRMT1 | Protein Arginine Methyltransferase 1 | Protein Coding | 55 | GC19P049675 | 4.583292007 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRMT1 |
| CAMK2G | Calcium/Calmodulin Dependent Protein Kinase II Gamma | Protein Coding | 54 | GC10M073812 | 4.57988739 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2G |
| HSPD1 | Heat Shock Protein Family D (Hsp60) Member 1 | Protein Coding | 55 | GC02M197486 | 4.576894283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPD1 |

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| SLC7A11 | Solute Carrier Family 7 Member 11 | Protein Coding | 51 | GC04M138164 | 4.569381237 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A11 |
| NCOA1 | Nuclear Receptor Coactivator 1 | Protein Coding | 51 | GC02P024492 | 4.565952778 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA1 |
| SLC6A4 | Solute Carrier Family 6 Member 4 | Protein Coding | 55 | GC17M030194 | 4.565765858 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A4 |
| SMN1 | Survival Of Motor Neuron 1, Telomeric | Protein Coding | 47 | GC05P070924 | 4.564593792 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMN1 |
| TLR2 | Toll Like Receptor 2 | Protein Coding | 59 | GC04P153684 | 4.562651634 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR2 |
| P2RX7 | Purinergic Receptor P2X 7 | Protein Coding | 54 | GC12P126979 | 4.556344986 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX7 |
| RHOA | Ras Homolog Family Member A | Protein Coding | 57 | GC03M049359 | 4.555493832 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOA |
| MLH1 | MutL Homolog 1 | Protein Coding | 55 | GC03P036993 | 4.549809933 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLH1 |
| ADRB1 | Adrenoceptor Beta 1 | Protein Coding | 54 | GC10P114044 | 4.549460411 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB1 |
| TIMP2 | TIMP Metalloproteinase Inhibitor 2 | Protein Coding | 48 | GC17M078852 | 4.54147768 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP2 |
| DBI | Diazepam Binding Inhibitor, Acyl-CoA Binding Protein | Protein Coding | 51 | GC02P119366 | 4.539021969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBI |
| CDH1 | Cadherin 1 | Protein Coding | 56 | GC16P068737 | 4.532455921 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH1 |
| CDKN2B | Cyclin Dependent Kinase Inhibitor 2B | Protein Coding | 53 | GC09M022002 | 4.53066206 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2B |
| PLCD1 | Phospholipase C Delta 1 | Protein Coding | 55 | GC03M038008 | 4.52986908 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCD1 |
| CYSLTR1 | Cysteinyl Leukotriene Receptor 1 | Protein Coding | 50 | GC0XM078271 | 4.527486801 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR1 |

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| SPTLC2 | Serine Palmitoyltransferase Long Chain Base Subunit 2 | Protein Coding | 54 | GC14M077505 | 4.527154922 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC2 |
| ARAF | A-Raf Proto-Oncogene, Serine/Threonine Kinase | Protein Coding | 53 | GC0XP047710 | 4.521902084 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARAF |
| DGKQ | Diacylglycerol Kinase Theta | Protein Coding | 48 | GC04M000958 | 4.516810894 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKQ |
| ACAA1 | Acetyl-CoA Acyltransferase 1 | Protein Coding | 48 | GC03M038103 | 4.513883114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAA1 |
| BLVRA | Biliverdin Reductase A | Protein Coding | 51 | GC07P043758 | 4.509799004 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLVRA |
| RPA1 | Replication Protein A1 | Protein Coding | 53 | GC17P001829 | 4.499402523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPA1 |
| CDKN1A | Cyclin Dependent Kinase Inhibitor 1A | Protein Coding | 55 | GC06P092294 | 4.492255211 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN1A |
| LTF | Lactotransferrin | Protein Coding | 52 | GC03M046435 | 4.481446266 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTF |
| SOCS3 | Suppressor Of Cytokine Signaling 3 | Protein Coding | 50 | GC17M078356 | 4.479187489 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS3 |
| COL2A1 | Collagen Type II Alpha 1 Chain | Protein Coding | 56 | GC12M047972 | 4.477406502 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL2A1 |
| WT1 | WT1 Transcription Factor | Protein Coding | 55 | GC11M032365 | 4.475149155 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WT1 |
| LDHB | Lactate Dehydrogenase B | Protein Coding | 53 | GC12M021635 | 4.47364521 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDHB |
| ACSBG1 | Acyl-CoA Synthetase Bubblegum Family Member 1 | Protein Coding | 48 | GC15M078167 | 4.471997738 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSBG1 |
| SNAP25 | Synaptosome Associated Protein 25 | Protein Coding | 55 | GC20P010193 | 4.466922283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNAP25 |
| NME1 | NME/NM23 Nucleoside Diphosphate Kinase 1 | Protein Coding | 51 | GC17P062974 | 4.462903023 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NME1 |

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| ADRA2A | Adrenoceptor Alpha 2A | Protein Coding | 52 | GC10P111077 | 4.449795246 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2A |
| DYRK1A | Dual Specificity Tyrosine Phosphorylation Regulated Kinase 1A | Protein Coding | 57 | GC21P037365 | 4.449550152 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYRK1A |
| FASLG | Fas Ligand | Protein Coding | 55 | GC01P172628 | 4.443905354 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FASLG |
| ACSL3 | Acyl-CoA Synthetase Long Chain Family Member 3 | Protein Coding | 49 | GC02P222860 | 4.439405918 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL3 |
| AGER | Advanced Glycosylation End-Product Specific Receptor | Protein Coding | 53 | GC06M032180 | 4.438507557 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGER |
| CXCR4 | C-X-C Motif Chemokine Receptor 4 | Protein Coding | 59 | GC02M136114 | 4.436937332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR4 |
| CBL | Cbl Proto-Oncogene | Protein Coding | 59 | GC11P119206 | 4.430374146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBL |
| THBS1 | Thrombospondin 1 | Protein Coding | 52 | GC15P039581 | 4.425669193 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS1 |
| IFNA1 | Interferon Alpha 1 | Protein Coding | 45 | GC09P021611 | 4.422715187 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA1 |
| SRR | Serine Racemase | Protein Coding | 48 | GC17P002303 | 4.418429375 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRR |
| ADPRH | ADP-Ribosylarginine Hydrolase | Protein Coding | 42 | GC03P119579 | 4.417760849 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADPRH |
| CCN2 | Cellular Communication Network Factor 2 | Protein Coding | 53 | GC06M131948 | 4.404472828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN2 |
| TGFA | Transforming Growth Factor Alpha | Protein Coding | 53 | GC02M070447 | 4.400311947 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFA |
| PAX5 | Paired Box 5 | Protein Coding | 52 | GC09M036879 | 4.399440765 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX5 |
| RUNX1 | RUNX Family Transcription Factor 1 | Protein Coding | 56 | GC21M034787 | 4.396518707 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX1 |

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| ENG | Endoglin | Protein Coding | 55 | GC09M127815 | 4.393945217 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENG |
| PDGFB | Platelet Derived Growth Factor Subunit B | Protein Coding | 58 | GC22M062326 | 4.381302357 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFB |
| EDNRA | Endothelin Receptor Type A | Protein Coding | 56 | GC04P147480 | 4.378360271 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRA |
| SLC27A2 | Solute Carrier Family 27 Member 2 | Protein Coding | 52 | GC15P050182 | 4.3697896 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC27A2 |
| NCOA3 | Nuclear Receptor Coactivator 3 | Protein Coding | 54 | GC20P047501 | 4.368255615 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA3 |
| CDK2 | Cyclin Dependent Kinase 2 | Protein Coding | 58 | GC12P055966 | 4.363362789 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK2 |
| GAL | Galanin And GMAP Prepropeptide | Protein Coding | 51 | GC11P071097 | 4.357871056 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAL |
| PLCG2 | Phospholipase C Gamma 2 | Protein Coding | 58 | GC16P081773 | 4.349803448 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCG2 |
| LTA | Lymphotoxin Alpha | Protein Coding | 49 | GC06P092152 | 4.348684311 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA |
| CLU | Clusterin | Protein Coding | 54 | GC08M027596 | 4.345746994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLU |
| MUC1 | Mucin 1, Cell Surface Associated | Protein Coding | 55 | GC01M155185 | 4.336580753 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC1 |
| SMAD4 | SMAD Family Member 4 | Protein Coding | 59 | GC18P051028 | 4.335887909 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD4 |
| FN1 | Fibronectin 1 | Protein Coding | 57 | GC02M215360 | 4.331896305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FN1 |
| TGFBR1 | Transforming Growth Factor Beta Receptor 1 | Protein Coding | 61 | GC09P099104 | 4.330105305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR1 |
| BSG | Basigin (Ok Blood Group) | Protein Coding | 51 | GC19P000571 | 4.324801445 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BSG |

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| RRM2 | Ribonucleotide Reductase Regulatory Subunit M2 | Protein Coding | 55 | GC02P010123 | 4.324131966 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM2 |
| PARK7 | Parkinsonism Associated Deglycase | Protein Coding | 54 | GC01P008140 | 4.317549706 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARK7 |
| TGFBR2 | Transforming Growth Factor Beta Receptor 2 | Protein Coding | 59 | GC03P030623 | 4.308754444 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR2 |
| HDAC2 | Histone Deacetylase 2 | Protein Coding | 59 | GC06M113933 | 4.305524826 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC2 |
| PRNP | Prion Protein | Protein Coding | 55 | GC20P004686 | 4.301037312 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRNP |
| RRM1 | Ribonucleotide Reductase Catalytic Subunit M1 | Protein Coding | 56 | GC11P004115 | 4.299415112 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRM1 |
| PRKCD | Protein Kinase C Delta | Protein Coding | 59 | GC03P053156 | 4.297080994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCD |
| SLC26A4 | Solute Carrier Family 26 Member 4 | Protein Coding | 49 | GC07P107660 | 4.296963692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC26A4 |
| PRDX5 | Peroxiredoxin 5 | Protein Coding | 51 | GC11P064460 | 4.295131683 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX5 |
| SEMA4D | Semaphorin 4D | Protein Coding | 53 | GC09M089360 | 4.28213644 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA4D |
| NKX2-1 | NK2 Homeobox 1 | Protein Coding | 53 | GC14M036516 | 4.278104782 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NKX2-1 |
| NEU3 | Neuraminidase 3 | Protein Coding | 45 | GC11P078455 | 4.275635242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEU3 |
| WRN | WRN RecQ Like Helicase | Protein Coding | 53 | GC08P031033 | 4.274279118 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WRN |
| TBK1 | TANK Binding Kinase 1 | Protein Coding | 56 | GC12P064451 | 4.270060539 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBK1 |
| B4GALNT | Beta-1,4-N-Acetyl-Galactosaminyltransferase 1 | Protein Coding | 53 | GC12M057623 | 4.263757229 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=B4GALNT1 |

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| CD19 | CD19 Molecule | Protein Coding | 58 | GC16P042650 | 4.263446808 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD19 |
| IKBKB | Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Beta | Protein Coding | 61 | GC08P042271 | 4.261201859 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKB |
| ACOT12 | Acyl-CoA Thioesterase 12 | Protein Coding | 44 | GC05M081309 | 4.259821892 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT12 |
| NRAS | NRAS Proto-Oncogene, GTPase | Protein Coding | 57 | GC01M114704 | 4.258516312 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRAS |
| ABCD2 | ATP Binding Cassette Subfamily D Member 2 | Protein Coding | 47 | GC12M039530 | 4.252993107 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD2 |
| FAR1 | Fatty Acyl-CoA Reductase 1 | Protein Coding | 49 | GC11P013668 | 4.249789238 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAR1 |
| SLC1A3 | Solute Carrier Family 1 Member 3 | Protein Coding | 56 | GC05P036654 | 4.249479294 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A3 |
| PTK2B | Protein Tyrosine Kinase 2 Beta | Protein Coding | 55 | GC08P027311 | 4.24893856 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK2B |
| PRKG1 | Protein Kinase CGMP-Dependent 1 | Protein Coding | 57 | GC10P050991 | 4.246487141 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKG1 |
| PIKFYVE | Phosphoinositide Kinase, FYVE-Type Zinc Finger Containing | Protein Coding | 55 | GC02P208266 | 4.238278866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIKFYVE |
| NTRK1 | Neurotrophic Receptor Tyrosine Kinase 1 | Protein Coding | 57 | GC01P156815 | 4.233635426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK1 |
| PLAU | Plasminogen Activator, Urokinase | Protein Coding | 59 | GC10P073909 | 4.2326684 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAU |
| ITGAM | Integrin Subunit Alpha M | Protein Coding | 55 | GC16P042850 | 4.231232643 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAM |
| HPX | Hemopexin | Protein Coding | 48 | GC11M006939 | 4.224319935 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPX |
| VIP | Vasoactive Intestinal Peptide | Protein Coding | 51 | GC06P152750 | 4.223753452 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIP |

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| SYNJ1 | Synaptojanin 1 | Protein Coding | 52 | GC21M032628 | 4.215205193 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNJ1 |
| PRSS1 | Serine Protease 1 | Protein Coding | 51 | GC07P149953 | 4.214827061 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRSS1 |
| IDO2 | Indoleamine 2,3-Dioxygenase 2 | Protein Coding | 45 | GC08P039976 | 4.204556465 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDO2 |
| OARD1 | O-Acyl-ADP-Ribose Deacylase 1 | Protein Coding | 39 | GC06M071913 | 4.190365314 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OARD1 |
| PSEN2 | Presenilin 2 | Protein Coding | 56 | GC01P226870 | 4.188182831 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN2 |
| GPC3 | Glypican 3 | Protein Coding | 53 | GC0XM133535 | 4.185760498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPC3 |
| HDAC3 | Histone Deacetylase 3 | Protein Coding | 56 | GC05M141620 | 4.183124065 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC3 |
| PTGES2 | Prostaglandin E Synthase 2 | Protein Coding | 50 | GC09M128120 | 4.17619276 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES2 |
| PTPMT1 | Protein Tyrosine Phosphatase Mitochondrial 1 | Protein Coding | 44 | GC11P047568 | 4.171000481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPMT1 |
| P4HB | Prolyl 4-Hydroxylase Subunit Beta | Protein Coding | 56 | GC17M081843 | 4.170737743 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P4HB |
| XK | X-Linked Kx Blood Group Antigen, Kell And VPS13A Binding Protein | Protein Coding | 47 | GC0XP037685 | 4.168406487 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XK |
| CDK4 | Cyclin Dependent Kinase 4 | Protein Coding | 61 | GC12M057787 | 4.165514946 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK4 |
| SPTLC3 | Serine Palmitoyltransferase Long Chain Base Subunit 3 | Protein Coding | 46 | GC20P013008 | 4.162569523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTLC3 |
| XPC | XPC Complex Subunit, DNA Damage Recognition And Repair Factor | Protein Coding | 52 | GC03M021831 | 4.16207695 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XPC |
| SLC1A1 | Solute Carrier Family 1 Member 1 | Protein Coding | 56 | GC09P004490 | 4.161443233 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A1 |

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| OGT | O-Linked N-Acetylglucosamine (GlcNAc) Transferase | Protein Coding | 51 | GC0XP071534 | 4.159537315 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGT |
| SMAD3 | SMAD Family Member 3 | Protein Coding | 59 | GC15P067063 | 4.158631802 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD3 |
| ELOVL1 | ELOVL Fatty Acid Elongase 1 | Protein Coding | 48 | GC01M043363 | 4.157157898 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL1 |
| TRPV4 | Transient Receptor Potential Cation Channel Subfamily V Member 4 | Protein Coding | 56 | GC12M109783 | 4.151106358 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV4 |
| GSTA2 | Glutathione S-Transferase Alpha 2 | Protein Coding | 47 | GC06M052750 | 4.144515514 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA2 |
| M6PR | Mannose-6-Phosphate Receptor, Cation Dependent | Protein Coding | 50 | GC12M009029 | 4.144075394 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=M6PR |
| SLCO2B1 | Solute Carrier Organic Anion Transporter Family Member 2B1 | Protein Coding | 51 | GC11P078457 | 4.143146515 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO2B1 |
| ENO2 | Enolase 2 | Protein Coding | 54 | GC12P006913 | 4.141520023 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO2 |
| CD40 | CD40 Molecule | Protein Coding | 57 | GC20P046118 | 4.141496658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40 |
| NAT8L | N-Acetyltransferase 8 Like | Protein Coding | 44 | GC04P002061 | 4.136281013 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT8L |
| CD8A | CD8a Molecule | Protein Coding | 54 | GC02M086784 | 4.132395267 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD8A |
| FGF19 | Fibroblast Growth Factor 19 | Protein Coding | 49 | GC11M099882 | 4.129551411 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF19 |
| ACAA2 | Acetyl-CoA Acyltransferase 2 | Protein Coding | 51 | GC18M049782 | 4.127201557 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAA2 |
| DCN | Decorin | Protein Coding | 54 | GC12M091140 | 4.126251698 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCN |
| XIAP | X-Linked Inhibitor Of Apoptosis | Protein Coding | 59 | GC0XP123859 | 4.12197876 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XIAP |

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| MDM2 | MDM2 Proto-Oncogene | Protein Coding | 59 | GC12P068808 | 4.121714115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDM2 |
| OPRM1 | Opioid Receptor Mu 1 | Protein Coding | 55 | GC06P154123 | 4.121528625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRM1 |
| FHIT | Fragile Histidine Triad Diadenosine Triphosphatase | Protein Coding | 51 | GC03M059747 | 4.118954182 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHIT |
| LRP6 | LDL Receptor Related Protein 6 | Protein Coding | 55 | GC12M022658 | 4.107475281 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP6 |
| SLC22A11 | Solute Carrier Family 22 Member 11 | Protein Coding | 47 | GC11P064573 | 4.107285976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A11 |
| ACTA1 | Actin Alpha 1, Skeletal Muscle | Protein Coding | 55 | GC01M229647 | 4.103856087 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTA1 |
| ITGB3 | Integrin Subunit Beta 3 | Protein Coding | 59 | GC17P062247 | 4.099756241 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB3 |
| NPM1 | Nucleophosmin 1 | Protein Coding | 57 | GC05P171387 | 4.094702721 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPM1 |
| SGK1 | Serum/Glucocorticoid Regulated Kinase 1 | Protein Coding | 56 | GC06M134169 | 4.088385105 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGK1 |
| IL1R1 | Interleukin 1 Receptor Type 1 | Protein Coding | 53 | GC02P102136 | 4.08834362 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1R1 |
| DLG4 | Discs Large MAGUK Scaffold Protein 4 | Protein Coding | 55 | GC17M007226 | 4.085865021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG4 |
| PRTN3 | Proteinase 3 | Protein Coding | 52 | GC19P000840 | 4.081354618 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRTN3 |
| PPA1 | Inorganic Pyrophosphatase 1 | Protein Coding | 50 | GC10M070202 | 4.078914165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPA1 |
| PDHA2 | Pyruvate Dehydrogenase E1 Subunit Alpha 2 | Protein Coding | 50 | GC04P095840 | 4.076750755 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDHA2 |
| OXT | Oxytocin/Neurophysin I Prepropeptide | Protein Coding | 44 | GC20P004488 | 4.070765495 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXT |

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| LMNB1 | Lamin B1 | Protein Coding | 53 | GC05P126776 | 4.070357323 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMNB1 |
| INPP5D | Inositol Polyphosphate-5-Phosphatase D | Protein Coding | 51 | GC02P233059 | 4.067728996 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5D |
| NCOR2 | Nuclear Receptor Corepressor 2 | Protein Coding | 50 | GC12M124324 | 4.064220428 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOR2 |
| XBP1 | X-Box Binding Protein 1 | Protein Coding | 52 | GC22M028794 | 4.061617851 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XBP1 |
| CHUK | Component Of Inhibitor Of Nuclear Factor Kappa B Kinase Complex | Protein Coding | 58 | GC10M100202 | 4.053830147 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHUK |
| SERPINA7 | Serpin Family A Member 7 | Protein Coding | 48 | GC0XM106032 | 4.048786163 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA7 |
| RB1 | RB Transcriptional Corepressor 1 | Protein Coding | 55 | GC13P048303 | 4.047911167 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RB1 |
| NOTCH1 | Notch Receptor 1 | Protein Coding | 60 | GC09M137729 | 4.046423912 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOTCH1 |
| TSC1 | TSC Complex Subunit 1 | Protein Coding | 54 | GC09M132891 | 4.045608997 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC1 |
| CEBPB | CCAAT Enhancer Binding Protein Beta | Protein Coding | 50 | GC20P050190 | 4.044969082 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPB |
| PLD1 | Phospholipase D1 | Protein Coding | 55 | GC03M171600 | 4.041944981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD1 |
| UGT2B10 | UDP Glucuronosyltransferase Family 2 Member B10 | Protein Coding | 47 | GC04P068816 | 4.030697823 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B10 |
| WDR45 | WD Repeat Domain 45 | Protein Coding | 46 | GC0XM049074 | 4.027177334 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR45 |
| RIPK1 | Receptor Interacting Serine/Threonine Kinase 1 | Protein Coding | 56 | GC06P003333 | 4.020352364 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIPK1 |
| EIF2AK4 | Eukaryotic Translation Initiation Factor 2 Alpha Kinase 4 | Protein Coding | 52 | GC15P039934 | 4.020245075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK4 |

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| CERS1 | Ceramide Synthase 1 | Protein Coding | 49 | GC19M018868 | 4.019072056 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS1 |
| ENTPD1 | Ectonucleoside Triphosphate Diphosphohydrolase 1 | Protein Coding | 57 | GC10P095711 | 4.01881361 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENTPD1 |
| CYP51A1 | Cytochrome P450 Family 51 Subfamily A Member 1 | Protein Coding | 50 | GC07M092112 | 4.017743111 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP51A1 |
| MAP3K5 | Mitogen-Activated Protein Kinase Kinase Kinase 5 | Protein Coding | 55 | GC06M136557 | 4.017704487 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K5 |
| SLC36A1 | Solute Carrier Family 36 Member 1 | Protein Coding | 46 | GC05P151344 | 4.017536163 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC36A1 |
| HMMR | Hyaluronan Mediated Motility Receptor | Protein Coding | 50 | GC05P163480 | 4.016493797 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMMR |
| PRKCB | Protein Kinase C Beta | Protein Coding | 55 | GC16P024574 | 4.015511513 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCB |
| MOGAT2 | Monoacylglycerol O-Acyltransferase 2 | Protein Coding | 43 | GC11P075717 | 4.011301994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT2 |
| APOM | Apolipoprotein M | Protein Coding | 47 | GC06P092161 | 3.997857571 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOM |
| THRB | Thyroid Hormone Receptor Beta | Protein Coding | 56 | GC03M024117 | 3.983554363 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THRB |
| CKB | Creatine Kinase B | Protein Coding | 51 | GC14M103519 | 3.977226257 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKB |
| RAPSN | Receptor Associated Protein Of The Synapse | Protein Coding | 48 | GC11M099370 | 3.971043825 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAPSN |
| GRP | Gastrin Releasing Peptide | Protein Coding | 47 | GC18P059220 | 3.969022274 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRP |
| KCNMA1 | Potassium Calcium-Activated Channel Subfamily M Alpha 1 | Protein Coding | 56 | GC10M076869 | 3.950283051 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNMA1 |
| KLK3 | Kallikrein Related Peptidase 3 | Protein Coding | 53 | GC19P050854 | 3.946335554 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLK3 |

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| CDK5 | Cyclin Dependent Kinase 5 | Protein Coding | 60 | GC07M151053 | 3.944981575 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK5 |
| SLC12A5 | Solute Carrier Family 12 Member 5 | Protein Coding | 55 | GC20P046021 | 3.943710566 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A5 |
| CSF3 | Colony Stimulating Factor 3 | Protein Coding | 47 | GC17P040015 | 3.937470913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3 |
| PDE3B | Phosphodiesterase 3B | Protein Coding | 50 | GC11P014643 | 3.933916092 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3B |
| IFNA2 | Interferon Alpha 2 | Protein Coding | 50 | GC09M021384 | 3.93334651 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA2 |
| SLC1A4 | Solute Carrier Family 1 Member 4 | Protein Coding | 52 | GC02P064988 | 3.931900501 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A4 |
| AKT3 | AKT Serine/Threonine Kinase 3 | Protein Coding | 61 | GC01M243488 | 3.922803879 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT3 |
| H19 | H19 Imprinted Maternally Expressed Transcript | RNA Gene | 30 | GC11M001995 | 3.921946287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H19 |
| CTLA4 | Cytotoxic T-Lymphocyte Associated Protein 4 | Protein Coding | 54 | GC02P203854 | 3.916200161 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTLA4 |
| RAC1 | Rac Family Small GTPase 1 | Protein Coding | 55 | GC07P006377 | 3.913594246 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAC1 |
| H4C16 | H4 Histone 16 | Protein Coding | 42 | GC12M022801 | 3.911123037 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H4C16 |
| GPX3 | Glutathione Peroxidase 3 | Protein Coding | 47 | GC05P150997 | 3.910354376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX3 |
| MYO5B | Myosin VB | Protein Coding | 50 | GC18M049822 | 3.909657717 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO5B |
| STUB1 | STIP1 Homology And U-Box Containing Protein 1 | Protein Coding | 53 | GC16P013453 | 3.907438517 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STUB1 |
| E2F1 | E2F Transcription Factor 1 | Protein Coding | 50 | GC20M033675 | 3.905562401 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=E2F1 |

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| IL15 | Interleukin 15 | Protein Coding | 49 | GC04P141636 | 3.902137041 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL15 |
| HTR2A | 5-Hydroxytryptamine Receptor 2A | Protein Coding | 55 | GC13M046831 | 3.901376009 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2A |
| LPO | Lactoperoxidase | Protein Coding | 46 | GC17P058218 | 3.900479317 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPO |
| LAMP1 | Lysosomal Associated Membrane Protein 1 | Protein Coding | 50 | GC13P113297 | 3.897934437 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMP1 |
| IKBKG | Inhibitor Of Nuclear Factor Kappa B Kinase Regulatory Subunit Gamma | Protein Coding | 55 | GC0XP154541 | 3.894810677 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKG |
| ADM | Adrenomedullin | Protein Coding | 51 | GC11P010304 | 3.88862443 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADM |
| MSH6 | MutS Homolog 6 | Protein Coding | 55 | GC02P047695 | 3.887536764 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSH6 |
| CA9 | Carbonic Anhydrase 9 | Protein Coding | 53 | GC09P035673 | 3.883813143 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA9 |
| TUBB1 | Tubulin Beta 1 Class VI | Protein Coding | 53 | GC20P059020 | 3.882990837 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB1 |
| GATA3 | GATA Binding Protein 3 | Protein Coding | 56 | GC10P008045 | 3.879091263 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA3 |
| GRB2 | Growth Factor Receptor Bound Protein 2 | Protein Coding | 52 | GC17M075318 | 3.878803253 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB2 |
| ESRRB | Estrogen Related Receptor Beta | Protein Coding | 54 | GC14P076310 | 3.874730587 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRB |
| SERPINF1 | Serpin Family F Member 1 | Protein Coding | 53 | GC17P001766 | 3.874513626 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINF1 |
| IL7R | Interleukin 7 Receptor | Protein Coding | 52 | GC05P035852 | 3.873098135 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL7R |
| CD55 | CD55 Molecule (Cromer Blood Group) | Protein Coding | 56 | GC01P207321 | 3.870641232 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD55 |

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| NPR3 | Natriuretic Peptide Receptor 3 | Protein Coding | 52 | GC05P032689 | 3.868728161 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR3 |
| HNRNPC | Heterogeneous Nuclear Ribonucleoprotein C | Protein Coding | 48 | GC14M023657 | 3.863192081 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPC |
| PTK2 | Protein Tyrosine Kinase 2 | Protein Coding | 55 | GC08M140657 | 3.861723185 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK2 |
| NME2 | NME/NM23 Nucleoside Diphosphate Kinase 2 | Protein Coding | 52 | GC17P051165 | 3.860429049 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NME2 |
| SLC16A10 | Solute Carrier Family 16 Member 10 | Protein Coding | 44 | GC06P111087 | 3.857141495 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A10 |
| IRAK1 | Interleukin 1 Receptor Associated Kinase 1 | Protein Coding | 56 | GC0XM154010 | 3.856891394 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRAK1 |
| IGFBP5 | Insulin Like Growth Factor Binding Protein 5 | Protein Coding | 49 | GC02M216672 | 3.853482246 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP5 |
| KHDRBS1 | KH RNA Binding Domain Containing, Signal Transduction Associated 1 | Protein Coding | 47 | GC01P032013 | 3.852282047 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS1 |
| GARS1 | Glycyl-TRNA Synthetase 1 | Protein Coding | 52 | GC07P030580 | 3.85188961 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GARS1 |
| ACSM5 | Acyl-CoA Synthetase Medium Chain Family Member 5 | Protein Coding | 44 | GC16P020410 | 3.850166559 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM5 |
| FGA | Fibrinogen Alpha Chain | Protein Coding | 56 | GC04M154583 | 3.84565568 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGA |
| ADCYAP1 | Adenylate Cyclase Activating Polypeptide 1 | Protein Coding | 47 | GC18P000895 | 3.83665657 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCYAP1 |
| KEAP1 | Kelch Like ECH Associated Protein 1 | Protein Coding | 56 | GC19M010486 | 3.835975885 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KEAP1 |
| PDE4A | Phosphodiesterase 4A | Protein Coding | 51 | GC19P010416 | 3.835870028 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE4A |
| CCKAR | Cholecystokinin A Receptor | Protein Coding | 52 | GC04M026483 | 3.835656404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCKAR |

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| PRKACG | Protein Kinase CAMP-Activated Catalytic Subunit Gamma | Protein Coding | 53 | GC09M069046 | 3.832050562 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKACG |
| ACSL5 | Acyl-CoA Synthetase Long Chain Family Member 5 | Protein Coding | 49 | GC10P112374 | 3.831627607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL5 |
| PNMT | Phenylethanolamine N-Methyltransferase | Protein Coding | 50 | GC17P039667 | 3.831362724 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNMT |
| CGB5 | Chorionic Gonadotropin Subunit Beta 5 | Protein Coding | 37 | GC19P049043 | 3.828410149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGB5 |
| GUK1 | Guanylate Kinase 1 | Protein Coding | 47 | GC01P228139 | 3.826385498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUK1 |
| AGMO | Alkylglycerol Monooxygenase | Protein Coding | 42 | GC07M015117 | 3.824967861 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGMO |
| SYK | Spleen Associated Tyrosine Kinase | Protein Coding | 56 | GC09P092704 | 3.822367668 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYK |
| CERS6 | Ceramide Synthase 6 | Protein Coding | 47 | GC02P168455 | 3.821056366 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS6 |
| SEC14L2 | SEC14 Like Lipid Binding 2 | Protein Coding | 46 | GC22P030396 | 3.81583333 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEC14L2 |
| SORT1 | Sortilin 1 | Protein Coding | 51 | GC01M109310 | 3.81338954 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORT1 |
| RARB | Retinoic Acid Receptor Beta | Protein Coding | 56 | GC03P024689 | 3.813275337 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RARB |
| LRP8 | LDL Receptor Related Protein 8 | Protein Coding | 50 | GC01M053243 | 3.812624216 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP8 |
| ITGB1 | Integrin Subunit Beta 1 | Protein Coding | 57 | GC10M033645 | 3.809351444 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB1 |
| SRY | Sex Determining Region Y | Protein Coding | 42 | GC0YM002698 | 3.805636406 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRY |
| MGST1 | Microsomal Glutathione S-Transferase 1 | Protein Coding | 47 | GC12P016347 | 3.804653168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGST1 |

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| CANX | Calnexin | Protein Coding | 51 | GC05P179678 | 3.798567057 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANX |
| PLA2G2E | Phospholipase A2 Group IIE | Protein Coding | 43 | GC01M019920 | 3.789566994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2E |
| SULT1B1 | Sulfotransferase Family 1B Member 1 | Protein Coding | 47 | GC04M069721 | 3.787377834 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1B1 |
| NR4A2 | Nuclear Receptor Subfamily 4 Group A Member 2 | Protein Coding | 53 | GC02M156324 | 3.786156893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A2 |
| SMN2 | Survival Of Motor Neuron 2, Centromeric | Protein Coding | 46 | GC05P070049 | 3.781511784 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMN2 |
| BTBD10 | BTB Domain Containing 10 | Protein Coding | 43 | GC11M013387 | 3.778814316 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTBD10 |
| ADAR | Adenosine Deaminase RNA Specific | Protein Coding | 52 | GC01M154599 | 3.766012192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAR |
| CTSK | Cathepsin K | Protein Coding | 57 | GC01M152758 | 3.764894962 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSK |
| TRAF6 | TNF Receptor Associated Factor 6 | Protein Coding | 52 | GC11M036467 | 3.761487722 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF6 |
| CNR2 | Cannabinoid Receptor 2 | Protein Coding | 51 | GC01M023870 | 3.759726048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR2 |
| DGKA | Diacylglycerol Kinase Alpha | Protein Coding | 51 | GC12P055927 | 3.755910397 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKA |
| CYP3A43 | Cytochrome P450 Family 3 Subfamily A Member 43 | Protein Coding | 46 | GC07P099833 | 3.754785776 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A43 |
| DRD4 | Dopamine Receptor D4 | Protein Coding | 52 | GC11P002096 | 3.753496647 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD4 |
| PCSK2 | Proprotein Convertase Subtilisin/Kexin Type 2 | Protein Coding | 50 | GC20P017226 | 3.745601177 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK2 |
| STAT5B | Signal Transducer And Activator Of Transcription 5B | Protein Coding | 56 | GC17M042199 | 3.744742155 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5B |

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| TJP2 | Tight Junction Protein 2 | Protein Coding | 51 | GC09P069121 | 3.744441032 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP2 |
| KCNJ2 | Potassium Inwardly Rectifying Channel Subfamily J Member 2 | Protein Coding | 55 | GC17P070168 | 3.729247332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ2 |
| GPAT3 | Glycerol-3-Phosphate Acyltransferase 3 | Protein Coding | 47 | GC04P083536 | 3.729138851 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT3 |
| SIK2 | Salt Inducible Kinase 2 | Protein Coding | 52 | GC11P111989 | 3.725149632 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIK2 |
| TWIST1 | Twist Family BHLH Transcription Factor 1 | Protein Coding | 52 | GC07M019020 | 3.721744061 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TWIST1 |
| GLRX | Glutaredoxin | Protein Coding | 50 | GC05M095752 | 3.718975544 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRX |
| PAM | Peptidylglycine Alpha-Amidating Monooxygenase | Protein Coding | 50 | GC05P102753 | 3.717186213 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAM |
| SELL | Selectin L | Protein Coding | 50 | GC01M169690 | 3.716027021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELL |
| SULT4A1 | Sulfotransferase Family 4A Member 1 | Protein Coding | 46 | GC22M043824 | 3.715360165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT4A1 |
| HNRNPD | Heterogeneous Nuclear Ribonucleoprotein D | Protein Coding | 50 | GC04M082352 | 3.702080965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPD |
| CERS2 | Ceramide Synthase 2 | Protein Coding | 48 | GC01M150960 | 3.701366425 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS2 |
| GPAT2 | Glycerol-3-Phosphate Acyltransferase 2, Mitochondrial | Protein Coding | 39 | GC02M098745 | 3.699226379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT2 |
| CASP1 | Caspase 1 | Protein Coding | 56 | GC11M105025 | 3.698204041 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP1 |
| CAV2 | Caveolin 2 | Protein Coding | 50 | GC07P116287 | 3.696254253 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV2 |
| PSAT1 | Phosphoserine Aminotransferase 1 | Protein Coding | 54 | GC09P078297 | 3.693089008 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSAT1 |

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| TGM2 | Transglutaminase 2 | Protein Coding | 54 | GC20M038127 | 3.692184448 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGM2 |
| TLR3 | Toll Like Receptor 3 | Protein Coding | 58 | GC04P186059 | 3.689142704 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR3 |
| WARS1 | Tryptophanyl-TRNA Synthetase 1 | Protein Coding | 52 | GC14M103181 | 3.687915325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS1 |
| GSTA4 | Glutathione S-Transferase Alpha 4 | Protein Coding | 47 | GC06M052977 | 3.68756938 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA4 |
| HSD17B12 | Hydroxysteroid 17-Beta Dehydrogenase 12 | Protein Coding | 46 | GC11P043652 | 3.686990738 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B12 |
| LIPF | Lipase F, Gastric Type | Protein Coding | 49 | GC10P088664 | 3.683813572 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPF |
| SCD5 | Stearoyl-CoA Desaturase 5 | Protein Coding | 48 | GC04M082629 | 3.682816505 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCD5 |
| PTGES3 | Prostaglandin E Synthase 3 | Protein Coding | 51 | GC12M057070 | 3.682389259 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES3 |
| AZIN2 | Antizyme Inhibitor 2 | Protein Coding | 47 | GC01P033081 | 3.678210258 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AZIN2 |
| BMP4 | Bone Morphogenetic Protein 4 | Protein Coding | 55 | GC14M053949 | 3.675657272 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP4 |
| PLCB4 | Phospholipase C Beta 4 | Protein Coding | 52 | GC20P009024 | 3.674196005 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB4 |
| MBL2 | Mannose Binding Lectin 2 | Protein Coding | 53 | GC10M052760 | 3.673710585 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBL2 |
| AGTR2 | Angiotensin II Receptor Type 2 | Protein Coding | 51 | GC0XP116170 | 3.668705702 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR2 |
| RPL11 | Ribosomal Protein L11 | Protein Coding | 55 | GC01P023691 | 3.668517351 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL11 |
| TRPV1 | Transient Receptor Potential Cation Channel Subfamily V Member 1 | Protein Coding | 55 | GC17M003565 | 3.657725573 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV1 |

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| CNTF | Ciliary Neurotrophic Factor | Protein Coding | 47 | GC11P058622 | 3.656933069 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTF |
| IL2RA | Interleukin 2 Receptor Subunit Alpha | Protein Coding | 57 | GC10M006010 | 3.654792786 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RA |
| ACSM4 | Acyl-CoA Synthetase Medium Chain Family Member 4 | Protein Coding | 38 | GC12P007304 | 3.649587154 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM4 |
| EIF4EBP1 | Eukaryotic Translation Initiation Factor 4E Binding Protein 1 | Protein Coding | 53 | GC08P038607 | 3.646658659 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4EBP1 |
| BIRC5 | Baculoviral IAP Repeat Containing 5 | Protein Coding | 52 | GC17P078214 | 3.645214796 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC5 |
| CALM1 | Calmodulin 1 | Protein Coding | 52 | GC14P090396 | 3.641564131 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALM1 |
| ETV6 | ETS Variant Transcription Factor 6 | Protein Coding | 52 | GC12P011649 | 3.639504433 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV6 |
| BMPR2 | Bone Morphogenetic Protein Receptor Type 2 | Protein Coding | 57 | GC02P202376 | 3.636691809 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR2 |
| IL1RAPL2 | Interleukin 1 Receptor Accessory Protein Like 2 | Protein Coding | 46 | GC0XP104566 | 3.632210255 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RAPL2 |
| SLC6A2 | Solute Carrier Family 6 Member 2 | Protein Coding | 54 | GC16P055656 | 3.631602526 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A2 |
| PCBP2 | Poly(RC) Binding Protein 2 | Protein Coding | 48 | GC12P053452 | 3.630653381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCBP2 |
| PIK3R2 | Phosphoinositide-3-Kinase Regulatory Subunit 2 | Protein Coding | 56 | GC19P018153 | 3.626128674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R2 |
| ACOT2 | Acyl-CoA Thioesterase 2 | Protein Coding | 44 | GC14P073567 | 3.625527143 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT2 |
| ACP3 | Acid Phosphatase 3 | Protein Coding | 50 | GC03P135034 | 3.619726658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP3 |
| C4A | Complement C4A (Rodgers Blood Group) | Protein Coding | 50 | GC06P092175 | 3.611579657 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4A |

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| GPAT4 | Glycerol-3-Phosphate Acyltransferase 4 | Protein Coding | 44 | GC08P041577 | 3.610387325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPAT4 |
| THPO | Thrombopoietin | Protein Coding | 50 | GC03M184371 | 3.601413965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THPO |
| HSD17B8 | Hydroxysteroid 17-Beta Dehydrogenase 8 | Protein Coding | 46 | GC06P092209 | 3.600556135 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B8 |
| PGAM1 | Phosphoglycerate Mutase 1 | Protein Coding | 51 | GC10P097426 | 3.594974279 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM1 |
| ANXA1 | Annexin A1 | Protein Coding | 54 | GC09P073151 | 3.584882736 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA1 |
| CYP20A1 | Cytochrome P450 Family 20 Subfamily A Member 1 | Protein Coding | 44 | GC02P203238 | 3.581699133 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP20A1 |
| CD79B | CD79b Molecule | Protein Coding | 54 | GC17M063928 | 3.581664562 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD79B |
| PLEK | Pleckstrin | Protein Coding | 47 | GC02P068365 | 3.565039635 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLEK |
| UGT2B11 | UDP Glucuronosyltransferase Family 2 Member B11 | Protein Coding | 44 | GC04M069199 | 3.564004183 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B11 |
| NOX4 | NADPH Oxidase 4 | Protein Coding | 50 | GC11M089324 | 3.563686609 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX4 |
| ATP2A3 | ATPase Sarcoplasmic/Endoplasmic Reticulum Ca ²⁺ Transporting 3 | Protein Coding | 52 | GC17M003923 | 3.559276819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2A3 |
| SOCS1 | Suppressor Of Cytokine Signaling 1 | Protein Coding | 52 | GC16M012467 | 3.558186293 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS1 |
| TRH | Thyrotropin Releasing Hormone | Protein Coding | 48 | GC03P129974 | 3.556975603 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRH |
| CA1 | Carbonic Anhydrase 1 | Protein Coding | 54 | GC08M085327 | 3.556869507 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA1 |
| NR4A3 | Nuclear Receptor Subfamily 4 Group A Member 3 | Protein Coding | 49 | GC09P099821 | 3.555757046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A3 |

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| PRDX6 | Peroxiredoxin 6 | Protein Coding | 53 | GC01P173477 | 3.552488565 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX6 |
| SH2B1 | SH2B Adaptor Protein 1 | Protein Coding | 48 | GC16P042648 | 3.546960115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B1 |
| GRIK2 | Glutamate Ionotropic Receptor Kainate Type Subunit 2 | Protein Coding | 56 | GC06P100962 | 3.546540976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK2 |
| SPARC | Secreted Protein Acidic And Cysteine Rich | Protein Coding | 56 | GC05M151661 | 3.546322346 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPARC |
| TGFB2 | Transforming Growth Factor Beta 2 | Protein Coding | 58 | GC01P218345 | 3.546247482 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB2 |
| SCT | Secretin | Protein Coding | 39 | GC11M000626 | 3.542740107 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCT |
| ACSM6 | Acyl-CoA Synthetase Medium Chain Family Member 6 | Protein Coding | 37 | GC10P095194 | 3.540477037 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSM6 |
| STAT5A | Signal Transducer And Activator Of Transcription 5A | Protein Coding | 55 | GC17P042287 | 3.540235758 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5A |
| ELOVL6 | ELOVL Fatty Acid Elongase 6 | Protein Coding | 48 | GC04M110045 | 3.538087368 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL6 |
| TBXA2R | Thromboxane A2 Receptor | Protein Coding | 56 | GC19M003594 | 3.5368433 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXA2R |
| LYN | LYN Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 55 | GC08P055879 | 3.53446126 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYN |
| AKR1B15 | Aldo-Keto Reductase Family 1 Member B15 | Protein Coding | 37 | GC07P134549 | 3.529265165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1B15 |
| F8 | Coagulation Factor VIII | Protein Coding | 54 | GC0XM154835 | 3.527348995 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F8 |
| LGALS1 | Galectin 1 | Protein Coding | 50 | GC22P037675 | 3.524164677 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS1 |
| UGT2B28 | UDP Glucuronosyltransferase Family 2 Member B28 | Protein Coding | 45 | GC04P069280 | 3.52409482 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2B28 |

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| SLC27A5 | Solute Carrier Family 27 Member 5 | Protein Coding | 48 | GC19M058479 | 3.523803711 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC27A5 |
| LGALS3 | Galectin 3 | Protein Coding | 52 | GC14P055124 | 3.522946119 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS3 |
| EEF2 | Eukaryotic Translation Elongation Factor 2 | Protein Coding | 55 | GC19M003976 | 3.522862434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF2 |
| CGA | Glycoprotein Hormones, Alpha Polypeptide | Protein Coding | 51 | GC06M087085 | 3.522000551 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGA |
| HAO1 | Hydroxyacid Oxidase 1 | Protein Coding | 48 | GC20M008508 | 3.519673824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAO1 |
| CD34 | CD34 Molecule | Protein Coding | 52 | GC01M207880 | 3.518568277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD34 |
| TOP1 | DNA Topoisomerase I | Protein Coding | 55 | GC20P041028 | 3.516348362 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP1 |
| PSMC6 | Proteasome 26S Subunit, ATPase 6 | Protein Coding | 46 | GC14P052707 | 3.516238689 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMC6 |
| HAS2 | Hyaluronan Synthase 2 | Protein Coding | 47 | GC08M121594 | 3.513864279 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAS2 |
| HSPA1A | Heat Shock Protein Family A (Hsp70) Member 1A | Protein Coding | 53 | GC06P092171 | 3.513021469 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA1A |
| DLK1 | Delta Like Non-Canonical Notch Ligand 1 | Protein Coding | 51 | GC14P110708 | 3.512380123 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLK1 |
| UBC | Ubiquitin C | Protein Coding | 49 | GC12M124911 | 3.51091814 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBC |
| AGRN | Agrin | Protein Coding | 52 | GC01P001020 | 3.509435892 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGRN |
| CA8 | Carbonic Anhydrase 8 | Protein Coding | 53 | GC08M060187 | 3.495261669 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA8 |
| HNRNPU | Heterogeneous Nuclear Ribonucleoprotein U | Protein Coding | 50 | GC01M244844 | 3.492166042 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPU |

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| TOP2A | DNA Topoisomerase II Alpha | Protein Coding | 57 | GC17M040388 | 3.486743212 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP2A |
| TNFSF10 | TNF Superfamily Member 10 | Protein Coding | 51 | GC03M172505 | 3.47996521 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF10 |
| INPP5J | Inositol Polyphosphate-5-Phosphatase J | Protein Coding | 48 | GC22P044897 | 3.474000692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5J |
| SLC22A1 | Solute Carrier Family 22 Member 1 | Protein Coding | 51 | GC06P160121 | 3.473587513 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A1 |
| HMGB1 | High Mobility Group Box 1 | Protein Coding | 54 | GC13M030456 | 3.468208075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGB1 |
| MYH9 | Myosin Heavy Chain 9 | Protein Coding | 55 | GC22M036281 | 3.46468854 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH9 |
| OLR1 | Oxidized Low Density Lipoprotein Receptor 1 | Protein Coding | 50 | GC12M022629 | 3.458401203 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLR1 |
| GP1BA | Glycoprotein Ib Platelet Subunit Alpha | Protein Coding | 54 | GC17P004932 | 3.456385374 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP1BA |
| GRIK1 | Glutamate Ionotropic Receptor Kainate Type Subunit 1 | Protein Coding | 53 | GC21M029536 | 3.454291821 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK1 |
| ERBB4 | Erb-B2 Receptor Tyrosine Kinase 4 | Protein Coding | 61 | GC02M211375 | 3.447304487 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB4 |
| NFKB2 | Nuclear Factor Kappa B Subunit 2 | Protein Coding | 59 | GC10P102394 | 3.43983674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKB2 |
| ELOVL4 | ELOVL Fatty Acid Elongase 4 | Protein Coding | 52 | GC06M079914 | 3.439374208 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL4 |
| CD28 | CD28 Molecule | Protein Coding | 55 | GC02P203706 | 3.433174372 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD28 |
| THEM5 | Thioesterase Superfamily Member 5 | Protein Coding | 41 | GC01M152803 | 3.431970835 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THEM5 |
| PDZK1 | PDZ Domain Containing 1 | Protein Coding | 47 | GC01M145670 | 3.431917667 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDZK1 |

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| SLC51A | Solute Carrier Family 51 Subunit Alpha | Protein Coding | 45 | GC03P196211 | 3.431206226 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC51A |
| ATF3 | Activating Transcription Factor 3 | Protein Coding | 51 | GC01P212565 | 3.43088913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF3 |
| PKD1 | Polycystin 1, Transient Receptor Potential Channel Interacting | Protein Coding | 52 | GC16M008093 | 3.430216074 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKD1 |
| HARS1 | Histidyl-TRNA Synthetase 1 | Protein Coding | 51 | GC05M140673 | 3.425354958 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HARS1 |
| COL1A2 | Collagen Type 1 Alpha 2 Chain | Protein Coding | 54 | GC07P094394 | 3.421122074 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL1A2 |
| FGB | Fibrinogen Beta Chain | Protein Coding | 53 | GC04P154604 | 3.418199778 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGB |
| CEACAM5 | CEA Cell Adhesion Molecule 5 | Protein Coding | 50 | GC19P072938 | 3.411329746 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM5 |
| CDKN1B | Cyclin Dependent Kinase Inhibitor 1B | Protein Coding | 54 | GC12P023759 | 3.411257982 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN1B |
| PSMB8 | Proteasome 20S Subunit Beta 8 | Protein Coding | 56 | GC06M032840 | 3.408988237 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB8 |
| DRD1 | Dopamine Receptor D1 | Protein Coding | 51 | GC05M175440 | 3.405468225 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD1 |
| IL11 | Interleukin 11 | Protein Coding | 47 | GC19M055364 | 3.404547215 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL11 |
| SLC8A1 | Solute Carrier Family 8 Member A1 | Protein Coding | 51 | GC02M040078 | 3.403540134 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC8A1 |
| HDAC4 | Histone Deacetylase 4 | Protein Coding | 59 | GC02M239048 | 3.39973402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC4 |
| PTPN2 | Protein Tyrosine Phosphatase Non-Receptor Type 2 | Protein Coding | 54 | GC18M027584 | 3.393139839 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN2 |
| MMP14 | Matrix Metalloproteinase 14 | Protein Coding | 57 | GC14P034667 | 3.391114712 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP14 |

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| YARS1 | Tyrosyl-TRNA Synthetase 1 | Protein Coding | 50 | GC01M032776 | 3.390839338 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YARS1 |
| PRLR | Prolactin Receptor | Protein Coding | 56 | GC05M035048 | 3.390128136 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLR |
| TUBB | Tubulin Beta Class I | Protein Coding | 57 | GC06P092134 | 3.388349056 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB |
| IRF1 | Interferon Regulatory Factor 1 | Protein Coding | 53 | GC05M132440 | 3.387298346 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF1 |
| PABPC1 | Poly(A) Binding Protein Cytoplasmic 1 | Protein Coding | 49 | GC08M100685 | 3.384418249 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PABPC1 |
| BCL2L1 | BCL2 Like 1 | Protein Coding | 55 | GC20M031664 | 3.38163662 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L1 |
| CYBB | Cytochrome B-245 Beta Chain | Protein Coding | 56 | GC0XP037780 | 3.380608082 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBB |
| OXTR | Oxytocin Receptor | Protein Coding | 53 | GC03M008767 | 3.37797904 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXTR |
| CERS5 | Ceramide Synthase 5 | Protein Coding | 46 | GC12M050129 | 3.376144171 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS5 |
| AWAT2 | Acyl-CoA Wax Alcohol Acyltransferase 2 | Protein Coding | 38 | GC0XM070040 | 3.374199867 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AWAT2 |
| RAC2 | Rac Family Small GTPase 2 | Protein Coding | 58 | GC22M061462 | 3.370952129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAC2 |
| IGF2BP3 | Insulin Like Growth Factor 2 mRNA Binding Protein 3 | Protein Coding | 48 | GC07M023354 | 3.36882925 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP3 |
| PBX1 | PBX Homeobox 1 | Protein Coding | 55 | GC01P164524 | 3.368083 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PBX1 |
| DLG1 | Discs Large MAGUK Scaffold Protein 1 | Protein Coding | 50 | GC03M197042 | 3.367190838 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG1 |
| HSP90B1 | Heat Shock Protein 90 Beta Family Member 1 | Protein Coding | 53 | GC12P103930 | 3.367063761 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90B1 |

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| SLC38A3 | Solute Carrier Family 38 Member 3 | Protein Coding | 45 | GC03P050205 | 3.364940166 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC38A3 |
| RHD | Rh Blood Group D Antigen | Protein Coding | 48 | GC01P025272 | 3.362401962 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHD |
| PLD2 | Phospholipase D2 | Protein Coding | 53 | GC17P004808 | 3.361949444 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD2 |
| PIM1 | Pim-1 Proto-Oncogene, Serine/Threonine Kinase | Protein Coding | 56 | GC06P092302 | 3.3618958 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIM1 |
| CDH13 | Cadherin 13 | Protein Coding | 51 | GC16P082626 | 3.359909773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH13 |
| PTPRC | Protein Tyrosine Phosphatase Receptor Type C | Protein Coding | 59 | GC01P198607 | 3.355715752 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRC |
| ESD | Esterase D | Protein Coding | 50 | GC13M046771 | 3.354079723 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESD |
| GPBR1 | G Protein-Coupled Estrogen Receptor 1 | Protein Coding | 48 | GC07P003391 | 3.351549625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPBR1 |
| MAP2K2 | Mitogen-Activated Protein Kinase Kinase 2 | Protein Coding | 61 | GC19M004090 | 3.350414038 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K2 |
| GRIP1 | Glutamate Receptor Interacting Protein 1 | Protein Coding | 50 | GC12M066347 | 3.350006342 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIP1 |
| UCHL1 | Ubiquitin C-Terminal Hydrolase L1 | Protein Coding | 59 | GC04P041256 | 3.342181206 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCHL1 |
| TP73 | Tumor Protein P73 | Protein Coding | 52 | GC01P003652 | 3.339853287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP73 |
| EEF1A1 | Eukaryotic Translation Elongation Factor 1 Alpha 1 | Protein Coding | 50 | GC06M074523 | 3.338254929 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1A1 |
| ELOVL5 | ELOVL Fatty Acid Elongase 5 | Protein Coding | 51 | GC06M053267 | 3.337735653 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL5 |
| GRM7 | Glutamate Metabotropic Receptor 7 | Protein Coding | 54 | GC03P006770 | 3.334997654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM7 |

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| HBEGF | Heparin Binding EGF Like Growth Factor | Protein Coding | 50 | GC05M140332 | 3.331227303 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBEGF |
| SOS1 | SOS Ras/Rac Guanine Nucleotide Exchange Factor 1 | Protein Coding | 56 | GC02M039054 | 3.329431534 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOS1 |
| BRS3 | Bombesin Receptor Subtype 3 | Protein Coding | 48 | GC0XP136500 | 3.328694344 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRS3 |
| CD59 | CD59 Molecule (CD59 Blood Group) | Protein Coding | 53 | GC11M033704 | 3.327222586 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD59 |
| CASP9 | Caspase 9 | Protein Coding | 53 | GC01M015491 | 3.326052904 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP9 |
| KRT8 | Keratin 8 | Protein Coding | 53 | GC12M052897 | 3.321171284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT8 |
| OGA | O-GlcNAcase | Protein Coding | 47 | GC10M101785 | 3.319125414 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGA |
| PDIA3 | Protein Disulfide Isomerase Family A Member 3 | Protein Coding | 51 | GC15P043746 | 3.316093206 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA3 |
| SLC18A2 | Solute Carrier Family 18 Member A2 | Protein Coding | 53 | GC10P117241 | 3.314780474 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A2 |
| LIF | LIF Interleukin 6 Family Cytokine | Protein Coding | 50 | GC22M030240 | 3.313483238 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIF |
| ADAM10 | ADAM Metallopeptidase Domain 10 | Protein Coding | 60 | GC15M058588 | 3.312374353 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM10 |
| HTR3A | 5-Hydroxytryptamine Receptor 3A | Protein Coding | 53 | GC11P113975 | 3.311017513 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR3A |
| PDE3A | Phosphodiesterase 3A | Protein Coding | 56 | GC12P023897 | 3.31002903 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3A |
| ACTN4 | Actinin Alpha 4 | Protein Coding | 53 | GC19P038647 | 3.30234313 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN4 |
| PDGFRA | Platelet Derived Growth Factor Receptor Alpha | Protein Coding | 60 | GC04P054229 | 3.300298452 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRA |

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| CD5 | CD5 Molecule | Protein Coding | 49 | GC11P061118 | 3.298510313 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD5 |
| MKKS | MKKS Centrosomal Shuttling Protein | Protein Coding | 46 | GC20M010424 | 3.296190262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKKS |
| MBP | Myelin Basic Protein | Protein Coding | 51 | GC18M076978 | 3.292306185 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBP |
| GATA1 | GATA Binding Protein 1 | Protein Coding | 53 | GC0XP048786 | 3.289469004 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA1 |
| PRLH | Prolactin Releasing Hormone | Protein Coding | 37 | GC02P237566 | 3.283510208 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLH |
| FLT1 | Fms Related Receptor Tyrosine Kinase 1 | Protein Coding | 57 | GC13M028300 | 3.281445742 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT1 |
| NR4A1 | Nuclear Receptor Subfamily 4 Group A Member 1 | Protein Coding | 54 | GC12P052022 | 3.275763988 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A1 |
| DUSP1 | Dual Specificity Phosphatase 1 | Protein Coding | 52 | GC05M172768 | 3.268606186 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP1 |
| NMT1 | N-Myristoyltransferase 1 | Protein Coding | 50 | GC17P062083 | 3.262718201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMT1 |
| SMAD2 | SMAD Family Member 2 | Protein Coding | 59 | GC18M047809 | 3.257688046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD2 |
| F2RL1 | F2R Like Trypsin Receptor 1 | Protein Coding | 51 | GC05P076818 | 3.256936073 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL1 |
| MT3 | Metallothionein 3 | Protein Coding | 44 | GC16P056589 | 3.255939245 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT3 |
| AGPAT3 | 1-Acylglycerol-3-Phosphate O-Acyltransferase 3 | Protein Coding | 46 | GC21P043865 | 3.250079155 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT3 |
| LRRK2 | Leucine Rich Repeat Kinase 2 | Protein Coding | 56 | GC12P040196 | 3.246121168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRRK2 |
| SGCB | Sarcoglycan Beta | Protein Coding | 47 | GC04M052019 | 3.243461609 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGCB |

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| CRHR2 | Corticotropin Releasing Hormone Receptor 2 | Protein Coding | 50 | GC07M030651 | 3.241627216 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR2 |
| PROS1 | Protein S | Protein Coding | 55 | GC03M093873 | 3.237989426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROS1 |
| TRIM63 | Tripartite Motif Containing 63 | Protein Coding | 48 | GC01M026066 | 3.235760689 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM63 |
| IL16 | Interleukin 16 | Protein Coding | 48 | GC15P081159 | 3.232122421 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL16 |
| DRD3 | Dopamine Receptor D3 | Protein Coding | 51 | GC03M114128 | 3.227733612 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD3 |
| ALK | ALK Receptor Tyrosine Kinase | Protein Coding | 59 | GC02M029190 | 3.226660728 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALK |
| NF1 | Neurofibromin 1 | Protein Coding | 54 | GC17P031094 | 3.22521162 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF1 |
| BUD23 | BUD23 RRNA Methyltransferase And Ribosome Maturation Factor | Protein Coding | 44 | GC07P076357 | 3.224797249 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BUD23 |
| ATXN3 | Ataxin 3 | Protein Coding | 52 | GC14M103083 | 3.224014997 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATXN3 |
| EIF4E | Eukaryotic Translation Initiation Factor 4E | Protein Coding | 56 | GC04M098879 | 3.223826408 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4E |
| JAK1 | Janus Kinase 1 | Protein Coding | 60 | GC01M064833 | 3.22107625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK1 |
| SAT2 | Spermidine/Spermine N1-Acetyltransferase Family Member 2 | Protein Coding | 43 | GC17M007626 | 3.216407537 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAT2 |
| CHRM3 | Cholinergic Receptor Muscarinic 3 | Protein Coding | 55 | GC01P239386 | 3.215517282 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM3 |
| KRT14 | Keratin 14 | Protein Coding | 53 | GC17M041582 | 3.214873791 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT14 |
| LALBA | Lactalbumin Alpha | Protein Coding | 45 | GC12M048567 | 3.212843418 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LALBA |

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| TAC1 | Tachykinin Precursor 1 | Protein Coding | 48 | GC07P097731 | 3.212556362 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAC1 |
| SMAD6 | SMAD Family Member 6 | Protein Coding | 53 | GC15P066702 | 3.210130453 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD6 |
| CYSLTR2 | Cysteinyl Leukotriene Receptor 2 | Protein Coding | 54 | GC13P048653 | 3.206436157 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR2 |
| MAG | Myelin Associated Glycoprotein | Protein Coding | 54 | GC19P035292 | 3.204558611 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAG |
| KHDRBS3 | KH RNA Binding Domain Containing, Signal Transduction Associated | Protein Coding | 45 | GC08P135457 | 3.195662022 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS3 |
| ACTN1 | Actinin Alpha 1 | Protein Coding | 56 | GC14M068874 | 3.193297863 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN1 |
| TTF2 | Transcription Termination Factor 2 | Protein Coding | 46 | GC01P117060 | 3.191391945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTF2 |
| SLC22A8 | Solute Carrier Family 22 Member 8 | Protein Coding | 49 | GC11M099608 | 3.190941095 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A8 |
| UBE3A | Ubiquitin Protein Ligase E3A | Protein Coding | 53 | GC15M025333 | 3.18576026 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE3A |
| CSF1R | Colony Stimulating Factor 1 Receptor | Protein Coding | 59 | GC05M150053 | 3.183142424 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1R |
| SLC1A2 | Solute Carrier Family 1 Member 2 | Protein Coding | 56 | GC11M035267 | 3.181488752 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A2 |
| ANG | Angiogenin | Protein Coding | 51 | GC14P034388 | 3.176154375 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANG |
| RPA2 | Replication Protein A2 | Protein Coding | 50 | GC01M028119 | 3.170302391 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPA2 |
| SERPING1 | Serpin Family G Member 1 | Protein Coding | 54 | GC11P057597 | 3.169795513 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPING1 |
| PTGER3 | Prostaglandin E Receptor 3 | Protein Coding | 53 | GC01M070852 | 3.167470455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER3 |

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| JAK3 | Janus Kinase 3 | Protein Coding | 58 | GC19M017824 | 3.165206909 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK3 |
| CDC42 | Cell Division Cycle 42 | Protein Coding | 57 | GC01P022052 | 3.15984416 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC42 |
| WNT5A | Wnt Family Member 5A | Protein Coding | 56 | GC03M055465 | 3.15939784 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT5A |
| S100A9 | S100 Calcium Binding Protein A9 | Protein Coding | 50 | GC01P153357 | 3.159015179 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A9 |
| CYGB | Cytoglobin | Protein Coding | 45 | GC17M076527 | 3.154545784 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYGB |
| KMT2A | Lysine Methyltransferase 2A | Protein Coding | 54 | GC11P118436 | 3.151390553 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMT2A |
| PDGFRL | Platelet Derived Growth Factor Receptor Like | Protein Coding | 50 | GC08P017576 | 3.149273634 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRL |
| GRK2 | G Protein-Coupled Receptor Kinase 2 | Protein Coding | 53 | GC11P067266 | 3.148638248 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK2 |
| KITLG | KIT Ligand | Protein Coding | 53 | GC12M088492 | 3.148565292 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KITLG |
| CDH2 | Cadherin 2 | Protein Coding | 59 | GC18M028088 | 3.1409235 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH2 |
| CSNK2A2 | Casein Kinase 2 Alpha 2 | Protein Coding | 53 | GC16M058157 | 3.137202501 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK2A2 |
| POMGNT2 | Protein O-Linked Mannose N-Acetylglucosaminyltransferase 2 (Beta 1,4-) | Protein Coding | 44 | GC03M043121 | 3.133676291 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMGNT2 |
| ANXA2 | Annexin A2 | Protein Coding | 55 | GC15M060347 | 3.130560637 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA2 |
| DDR1 | Discoidin Domain Receptor Tyrosine Kinase 1 | Protein Coding | 53 | GC06P092137 | 3.126752853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDR1 |
| CDK6 | Cyclin Dependent Kinase 6 | Protein Coding | 59 | GC07M092604 | 3.125250101 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK6 |

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| MLN | Motilin | Protein Coding | 40 | GC06M033794 | 3.12496376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLN |
| GSN | Gelsolin | Protein Coding | 56 | GC09P121201 | 3.119424343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSN |
| PTCH1 | Patched 1 | Protein Coding | 57 | GC09M095442 | 3.118463278 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTCH1 |
| SCG5 | Secretogranin V | Protein Coding | 43 | GC15P032641 | 3.115576029 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG5 |
| ITPR1 | Inositol 1,4,5-Trisphosphate Receptor Type 1 | Protein Coding | 55 | GC03P004486 | 3.114220381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPR1 |
| ELOVL7 | ELOVL Fatty Acid Elongase 7 | Protein Coding | 44 | GC05M060751 | 3.107929945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL7 |
| CPQ | Carboxypeptidase Q | Protein Coding | 44 | GC08P096645 | 3.10552454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPQ |
| STC2 | Stanniocalcin 2 | Protein Coding | 48 | GC05M173314 | 3.101755142 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STC2 |
| SLC15A1 | Solute Carrier Family 15 Member 1 | Protein Coding | 50 | GC13M098683 | 3.098032951 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A1 |
| CA10 | Carbonic Anhydrase 10 | Protein Coding | 46 | GC17M051630 | 3.09686017 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA10 |
| TPR | Translocated Promoter Region, Nuclear Basket Protein | Protein Coding | 50 | GC01M186323 | 3.096314192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPR |
| CALB1 | Calbindin 1 | Protein Coding | 49 | GC08M090058 | 3.095009327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB1 |
| REL | REL Proto-Oncogene, NF-KB Subunit | Protein Coding | 53 | GC02P060881 | 3.093712807 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=REL |
| DDX5 | DEAD-Box Helicase 5 | Protein Coding | 52 | GC17M064498 | 3.092330456 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX5 |
| PDCD1 | Programmed Cell Death 1 | Protein Coding | 55 | GC02M241849 | 3.091902733 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD1 |

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| MSR1 | Macrophage Scavenger Receptor 1 | Protein Coding | 52 | GC08M016107 | 3.090070248 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSR1 |
| RAN | RAN, Member RAS Oncogene Family | Protein Coding | 50 | GC12P130871 | 3.086040258 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAN |
| CDC25A | Cell Division Cycle 25A | Protein Coding | 54 | GC03M048195 | 3.084305286 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25A |
| ZDHHC5 | Zinc Finger DHHC-Type Palmitoyltransferase 5 | Protein Coding | 44 | GC11P057670 | 3.082505703 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC5 |
| HPR | Haptoglobin-Related Protein | Protein Coding | 46 | GC16P072373 | 3.08214283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPR |
| ACOT7 | Acyl-CoA Thioesterase 7 | Protein Coding | 47 | GC01M007591 | 3.081958532 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT7 |
| PAK1 | P21 (RAC1) Activated Kinase 1 | Protein Coding | 57 | GC11M100100 | 3.080955982 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK1 |
| HYAL2 | Hyaluronidase 2 | Protein Coding | 51 | GC03M050317 | 3.079611301 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYAL2 |
| DUSP19 | Dual Specificity Phosphatase 19 | Protein Coding | 44 | GC02P183078 | 3.077805996 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP19 |
| MAPK7 | Mitogen-Activated Protein Kinase 7 | Protein Coding | 54 | GC17P061131 | 3.077512503 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK7 |
| BAD | BCL2 Associated Agonist Of Cell Death | Protein Coding | 51 | GC11M099650 | 3.075921774 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAD |
| ADCY5 | Adenylate Cyclase 5 | Protein Coding | 55 | GC03M123282 | 3.074261189 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCY5 |
| ADAMTSL1 | ADAMTS Like 1 | Protein Coding | 49 | GC09P017906 | 3.073168039 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTSL1 |
| CCR5 | C-C Motif Chemokine Receptor 5 | Protein Coding | 53 | GC03P047615 | 3.073025703 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR5 |
| GZMB | Granzyme B | Protein Coding | 54 | GC14M024630 | 3.072257996 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GZMB |

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| HRH1 | Histamine Receptor H1 | Protein Coding | 52 | GC03P013698 | 3.071516037 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH1 |
| CERS3 | Ceramide Synthase 3 | Protein Coding | 47 | GC15M122864 | 3.067425251 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS3 |
| NEFH | Neurofilament Heavy Chain | Protein Coding | 52 | GC22P029480 | 3.063281059 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEFH |
| RPS6 | Ribosomal Protein S6 | Protein Coding | 50 | GC09M019375 | 3.061184645 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6 |
| POU1F1 | POU Class 1 Homeobox 1 | Protein Coding | 48 | GC03M087259 | 3.055360556 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU1F1 |
| AANAT | Aralkylamine N-Acetyltransferase | Protein Coding | 46 | GC17P076453 | 3.053804159 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AANAT |
| GNAQ | G Protein Subunit Alpha Q | Protein Coding | 55 | GC09M077716 | 3.051543951 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAQ |
| LCLAT1 | Lysocardiolipin Acyltransferase 1 | Protein Coding | 43 | GC02P030447 | 3.03848815 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCLAT1 |
| IL2RG | Interleukin 2 Receptor Subunit Gamma | Protein Coding | 55 | GC0XM071108 | 3.037034273 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RG |
| NOX1 | NADPH Oxidase 1 | Protein Coding | 50 | GC0XM100843 | 3.033960581 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX1 |
| LPCAT3 | Lysophosphatidylcholine Acyltransferase 3 | Protein Coding | 44 | GC12M006976 | 3.032484293 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT3 |
| DSPP | Dentin Sialophosphoprotein | Protein Coding | 45 | GC04P087608 | 3.03011179 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSPP |
| EDNRB | Endothelin Receptor Type B | Protein Coding | 56 | GC13M077895 | 3.028537989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRB |
| CCN1 | Cellular Communication Network Factor 1 | Protein Coding | 47 | GC01P085581 | 3.02657032 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN1 |
| UTS2 | Urotensin 2 | Protein Coding | 46 | GC01M007843 | 3.025096655 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTS2 |

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|---------|--|----------------|----|-------------|-------------|---|
| CCND2 | Cyclin D2 | Protein Coding | 55 | GC12P023493 | 3.024245024 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND2 |
| RAB5A | RAB5A, Member RAS Oncogene Family | Protein Coding | 51 | GC03P019948 | 3.02043581 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB5A |
| MKI67 | Marker Of Proliferation Ki-67 | Protein Coding | 51 | GC10M128096 | 3.018312931 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKI67 |
| EIF2AK1 | Eukaryotic Translation Initiation Factor 2 Alpha Kinase 1 | Protein Coding | 51 | GC07M006022 | 3.017688274 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK1 |
| MAP3K7 | Mitogen-Activated Protein Kinase Kinase Kinase 7 | Protein Coding | 57 | GC06M090513 | 3.015327454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K7 |
| CERS4 | Ceramide Synthase 4 | Protein Coding | 48 | GC19P008206 | 3.009953976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CERS4 |
| F2R | Coagulation Factor II Thrombin Receptor | Protein Coding | 53 | GC05P076716 | 3.008503437 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2R |
| CR1 | Complement C3b/C4b Receptor 1 (Knops Blood Group) | Protein Coding | 51 | GC01P207496 | 3.006123543 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR1 |
| CCNA2 | Cyclin A2 | Protein Coding | 52 | GC04M121816 | 3.00469923 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNA2 |
| MSBP1 | Minisatellite Binding Protein 1 | Protein Coding | 6 | GC00U990213 | 3.003406048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSBP1 |
| EIF4B | Eukaryotic Translation Initiation Factor 4B | Protein Coding | 48 | GC12P053006 | 3.003115654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4B |
| IYD | Iodotyrosine Deiodinase | Protein Coding | 47 | GC06P150368 | 3.001287222 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IYD |
| NSF | N-Ethylmaleimide Sensitive Factor, Vesicle Fusing ATPase | Protein Coding | 51 | GC17P046590 | 2.995528221 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSF |
| LPCAT2 | Lysophosphatidylcholine Acyltransferase 2 | Protein Coding | 48 | GC16P055510 | 2.994910717 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPCAT2 |
| MGAT5 | Alpha-1,6-Mannosylglycoprotein 6-Beta-N-Acetylglucosaminyltransferase | Protein Coding | 48 | GC02P134119 | 2.994092226 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGAT5 |

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|---------|---|----------------|----|-------------|-------------|---|
| TGFB1 | Transforming Growth Factor Beta Induced | Protein Coding | 53 | GC05P136027 | 2.993627071 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB1 |
| TGIF1 | TGFB Induced Factor Homeobox 1 | Protein Coding | 53 | GC18P003411 | 2.990906 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGIF1 |
| ARHGAP1 | Rho GTPase Activating Protein 1 | Protein Coding | 49 | GC11M099353 | 2.990369797 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP1 |
| FHL2 | Four And A Half LIM Domains 2 | Protein Coding | 53 | GC02M105357 | 2.988026142 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHL2 |
| ELOVL3 | ELOVL Fatty Acid Elongase 3 | Protein Coding | 41 | GC10P102226 | 2.985116005 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOVL3 |
| GRM5 | Glutamate Metabotropic Receptor 5 | Protein Coding | 53 | GC11M088504 | 2.984042168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM5 |
| HDAC6 | Histone Deacetylase 6 | Protein Coding | 61 | GC0XP048801 | 2.98350811 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC6 |
| AQP9 | Aquaporin 9 | Protein Coding | 49 | GC15P058138 | 2.982341766 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP9 |
| CD274 | CD274 Molecule | Protein Coding | 52 | GC09P005450 | 2.978649139 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD274 |
| LNPEP | Leucyl And Cystinyl Aminopeptidase | Protein Coding | 52 | GC05P096935 | 2.976631403 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LNPEP |
| L1CAM | L1 Cell Adhesion Molecule | Protein Coding | 54 | GC0XM153864 | 2.975522995 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=L1CAM |
| PDPK1 | 3-Phosphoinositide Dependent Protein Kinase 1 | Protein Coding | 55 | GC16P002537 | 2.972537518 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDPK1 |
| DES | Desmin | Protein Coding | 55 | GC02P219418 | 2.970502853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DES |
| PPBP | Pro-Platelet Basic Protein | Protein Coding | 49 | GC04M073986 | 2.964915276 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPBP |
| BLM | BLM RecQ Like Helicase | Protein Coding | 56 | GC15P090717 | 2.963648319 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLM |

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|--------|--|----------------|----|-------------|-------------|---|
| S100B | S100 Calcium Binding Protein B | Protein Coding | 51 | GC21M051379 | 2.961237431 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100B |
| RAB6A | RAB6A, Member RAS Oncogene Family | Protein Coding | 47 | GC11M099960 | 2.959060907 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB6A |
| HELLS | Helicase, Lymphoid Specific | Protein Coding | 52 | GC10P094814 | 2.958610773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HELLS |
| PLAUR | Plasminogen Activator, Urokinase Receptor | Protein Coding | 52 | GC19M043646 | 2.953312874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAUR |
| ATF2 | Activating Transcription Factor 2 | Protein Coding | 54 | GC02M175072 | 2.950472832 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF2 |
| PTX3 | Pentraxin 3 | Protein Coding | 50 | GC03P157436 | 2.950279713 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTX3 |
| CCND3 | Cyclin D3 | Protein Coding | 53 | GC06M041934 | 2.947537661 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND3 |
| ACSBG2 | Acyl-CoA Synthetase Bubblegum Family Member 2 | Protein Coding | 44 | GC19P006135 | 2.947389603 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSBG2 |
| ITGA5 | Integrin Subunit Alpha 5 | Protein Coding | 56 | GC12M055005 | 2.947187424 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA5 |
| MBOAT2 | Membrane Bound O-Acyltransferase Domain Containing 2 | Protein Coding | 42 | GC02M008853 | 2.943485022 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT2 |
| PTPA | Protein Phosphatase 2 Phosphatase Activator | Protein Coding | 50 | GC09P129119 | 2.941158295 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPA |
| THOP1 | Thimet Oligopeptidase 1 | Protein Coding | 48 | GC19P002785 | 2.939968348 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THOP1 |
| ITGA2 | Integrin Subunit Alpha 2 | Protein Coding | 53 | GC05P052989 | 2.937961817 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA2 |
| BCL6 | BCL6 Transcription Repressor | Protein Coding | 52 | GC03M187721 | 2.929877281 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL6 |
| NPY4R | Neuropeptide Y Receptor Y4 | Protein Coding | 46 | GC10M046461 | 2.929151297 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY4R |

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|----------|--|----------------|----|-------------|-------------|---|
| BAIAP2L1 | BAR/IMD Domain Containing Adaptor Protein 2 Like 1 | Protein Coding | 46 | GC07M098294 | 2.926037312 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAIAP2L1 |
| MAPK9 | Mitogen-Activated Protein Kinase 9 | Protein Coding | 56 | GC05M180263 | 2.924700737 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK9 |
| PRKD1 | Protein Kinase D1 | Protein Coding | 56 | GC14M029576 | 2.923382521 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKD1 |
| ADAM17 | ADAM Metallopeptidase Domain 17 | Protein Coding | 58 | GC02M009488 | 2.92128253 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM17 |
| PRKCE | Protein Kinase C Epsilon | Protein Coding | 55 | GC02P045651 | 2.918762207 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCE |
| CBX5 | Chromobox 5 | Protein Coding | 50 | GC12M054230 | 2.918049335 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBX5 |
| CRYAB | Crystallin Alpha B | Protein Coding | 53 | GC11M111908 | 2.917105913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAB |
| WARS2 | Tryptophanyl TRNA Synthetase 2, Mitochondrial | Protein Coding | 51 | GC01M119031 | 2.916296005 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS2 |
| SLC22A7 | Solute Carrier Family 22 Member 7 | Protein Coding | 48 | GC06P092349 | 2.914253712 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A7 |
| ADORA1 | Adenosine A1 Receptor | Protein Coding | 53 | GC01P203090 | 2.91362977 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA1 |
| VTN | Vitronectin | Protein Coding | 51 | GC17M051189 | 2.913039684 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VTN |
| PTPN3 | Protein Tyrosine Phosphatase Non-Receptor Type 3 | Protein Coding | 51 | GC09M109375 | 2.905050516 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN3 |
| SULT1A4 | Sulfotransferase Family 1A Member 4 | Protein Coding | 37 | GC16P042717 | 2.904377937 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A4 |
| TIMP3 | TIMP Metallopeptidase Inhibitor 3 | Protein Coding | 50 | GC22P044970 | 2.901615143 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP3 |
| SP3 | Sp3 Transcription Factor | Protein Coding | 50 | GC02M173882 | 2.90152359 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP3 |

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|---------|--|----------------|----|-------------|-------------|---|
| PLK1 | Polo Like Kinase 1 | Protein Coding | 58 | GC16P024566 | 2.901216269 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLK1 |
| CSNK1A1 | Casein Kinase 1 Alpha 1 | Protein Coding | 55 | GC05M149492 | 2.89967227 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK1A1 |
| GRB14 | Growth Factor Receptor Bound Protein 14 | Protein Coding | 50 | GC02M164492 | 2.891060591 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB14 |
| CXCR2 | C-X-C Motif Chemokine Receptor 2 | Protein Coding | 57 | GC02P218125 | 2.887881041 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR2 |
| ITK | IL2 Inducible T Cell Kinase | Protein Coding | 59 | GC05P157158 | 2.886702299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITK |
| GNAO1 | G Protein Subunit Alpha O1 | Protein Coding | 52 | GC16P056231 | 2.884417772 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAO1 |
| AVPR2 | Arginine Vasopressin Receptor 2 | Protein Coding | 53 | GC0XP153902 | 2.882421732 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVPR2 |
| SLC12A2 | Solute Carrier Family 12 Member 2 | Protein Coding | 56 | GC05P128083 | 2.881573439 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A2 |
| CXCR1 | C-X-C Motif Chemokine Receptor 1 | Protein Coding | 50 | GC02M218162 | 2.877828598 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR1 |
| TRAF3 | TNF Receptor Associated Factor 3 | Protein Coding | 53 | GC14P110622 | 2.876880646 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF3 |
| BIRC3 | Baculoviral IAP Repeat Containing 3 | Protein Coding | 53 | GC11P102317 | 2.874317646 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC3 |
| EPHA4 | EPH Receptor A4 | Protein Coding | 57 | GC02M221418 | 2.871276379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA4 |
| MYLK | Myosin Light Chain Kinase | Protein Coding | 57 | GC03M123610 | 2.868624449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYLK |
| AGPAT5 | 1-Acylglycerol-3-Phosphate O-Acyltransferase 5 | Protein Coding | 48 | GC08P006708 | 2.867540121 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT5 |
| CDO1 | Cysteine Dioxygenase Type 1 | Protein Coding | 47 | GC05M115804 | 2.867174625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDO1 |

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|--------|--|----------------|----|-------------|-------------|---|
| FURIN | Furin, Paired Basic Amino Acid Cleaving Enzyme | Protein Coding | 54 | GC15P090868 | 2.866317272 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FURIN |
| INHA | Inhibin Subunit Alpha | Protein Coding | 49 | GC02P219569 | 2.866305113 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INHA |
| CFL1 | Cofilin 1 | Protein Coding | 52 | GC11M065823 | 2.865230083 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFL1 |
| MCL1 | MCL1 Apoptosis Regulator, BCL2 Family Member | Protein Coding | 55 | GC01M152731 | 2.86384058 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCL1 |
| GLYAT | Glycine-N-Acyltransferase | Protein Coding | 46 | GC11M099446 | 2.863129139 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYAT |
| HBG1 | Hemoglobin Subunit Gamma 1 | Protein Coding | 47 | GC11M006834 | 2.862811327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBG1 |
| A2M | Alpha-2-Macroglobulin | Protein Coding | 52 | GC12M009067 | 2.858912945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=A2M |
| PTGER4 | Prostaglandin E Receptor 4 | Protein Coding | 52 | GC05P040679 | 2.858474731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER4 |
| PCNA | Proliferating Cell Nuclear Antigen | Protein Coding | 57 | GC20M005114 | 2.857391119 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCNA |
| ITGAL | Integrin Subunit Alpha L | Protein Coding | 53 | GC16P030472 | 2.857074738 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAL |
| FCGR3A | Fc Gamma Receptor IIIa | Protein Coding | 53 | GC01M161541 | 2.850360155 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR3A |
| IGFBP6 | Insulin Like Growth Factor Binding Protein 6 | Protein Coding | 50 | GC12P053097 | 2.844712496 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP6 |
| TXN2 | Thioredoxin 2 | Protein Coding | 50 | GC22M036467 | 2.843144894 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXN2 |
| CBX1 | Chromobox 1 | Protein Coding | 48 | GC17M048070 | 2.839906454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBX1 |
| PIAS4 | Protein Inhibitor Of Activated STAT 4 | Protein Coding | 48 | GC19P004007 | 2.83911252 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIAS4 |

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|-----------|--|----------------|----|-------------|-------------|---|
| MMP13 | Matrix Metallopeptidase 13 | Protein Coding | 57 | GC11M102942 | 2.838996172 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP13 |
| MYCN | MYCN Proto-Oncogene, BHLH Transcription Factor | Protein Coding | 53 | GC02P015954 | 2.838101864 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYCN |
| NPY1R | Neuropeptide Y Receptor Y1 | Protein Coding | 53 | GC04M163323 | 2.837838888 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY1R |
| TNFRSF10A | TNF Receptor Superfamily Member 10a | Protein Coding | 52 | GC08M023190 | 2.837100029 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF10A |
| KRIT1 | KRIT1 Ankyrin Repeat Containing | Protein Coding | 48 | GC07M092198 | 2.832033157 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRIT1 |
| SULT1C4 | Sulfotransferase Family 1C Member 4 | Protein Coding | 43 | GC02P108377 | 2.830641747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C4 |
| MEFV | MEFV Innate Immunity Regulator, Pyrin | Protein Coding | 51 | GC16M008228 | 2.823741913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEFV |
| PREP | Prolyl Endopeptidase | Protein Coding | 48 | GC06M105277 | 2.822573662 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PREP |
| NF2 | NF2, Moesin-Ezrin-Radixin Like (MERLIN) Tumor Suppressor | Protein Coding | 55 | GC22P029603 | 2.821547747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF2 |
| S100A8 | S100 Calcium Binding Protein A8 | Protein Coding | 48 | GC01M153391 | 2.820464373 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A8 |
| ATR | ATR Serine/Threonine Kinase | Protein Coding | 59 | GC03M142449 | 2.820094347 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATR |
| CCL4 | C-C Motif Chemokine Ligand 4 | Protein Coding | 47 | GC17P036103 | 2.819907188 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL4 |
| SERPINB1 | Serpin Family B Member 1 | Protein Coding | 47 | GC06M002852 | 2.815357924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB1 |
| LIMK1 | LIM Domain Kinase 1 | Protein Coding | 56 | GC07P074082 | 2.813730001 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIMK1 |
| PSMC4 | Proteasome 26S Subunit, ATPase 4 | Protein Coding | 47 | GC19P072849 | 2.812140942 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMC4 |

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|--------|--|----------------|----|-------------|-------------|---|
| YWHAH | Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein Eta | Protein Coding | 53 | GC22P031944 | 2.810483932 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YWHAH |
| PECAM1 | Platelet And Endothelial Cell Adhesion Molecule 1 | Protein Coding | 47 | GC17M064319 | 2.80936718 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PECAM1 |
| FADD | Fas Associated Via Death Domain | Protein Coding | 52 | GC11P070203 | 2.808387756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FADD |
| AKAP13 | A-Kinase Anchoring Protein 13 | Protein Coding | 49 | GC15P123897 | 2.804094791 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP13 |
| GRM1 | Glutamate Metabotropic Receptor 1 | Protein Coding | 57 | GC06P145973 | 2.799233913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM1 |
| FEN1 | Flap Structure-Specific Endonuclease 1 | Protein Coding | 53 | GC11P061793 | 2.798650742 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FEN1 |
| SLC1A7 | Solute Carrier Family 1 Member 7 | Protein Coding | 50 | GC01M053087 | 2.797800779 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A7 |
| MTMR2 | Myotubularin Related Protein 2 | Protein Coding | 52 | GC11M100315 | 2.797639847 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTMR2 |
| ERBB3 | Erb-B2 Receptor Tyrosine Kinase 3 | Protein Coding | 60 | GC12P057479 | 2.795985222 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB3 |
| CXCL12 | C-X-C Motif Chemokine Ligand 12 | Protein Coding | 51 | GC10M044370 | 2.794643164 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL12 |
| IBSP | Integrin Binding Sialoprotein | Protein Coding | 45 | GC04P087799 | 2.793280363 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IBSP |
| CIITA | Class II Major Histocompatibility Complex Transactivator | Protein Coding | 51 | GC16P013730 | 2.792242765 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIITA |
| ACP2 | Acid Phosphatase 2, Lysosomal | Protein Coding | 49 | GC11M099364 | 2.791862249 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP2 |
| CKS1B | CDC28 Protein Kinase Regulatory Subunit 1B | Protein Coding | 48 | GC01P154974 | 2.788207769 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKS1B |
| P2RY12 | Purinergic Receptor P2Y12 | Protein Coding | 55 | GC03M151336 | 2.787358761 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY12 |

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|---------|---|----------------|----|-------------|-------------|---|
| RPS6KA1 | Ribosomal Protein S6 Kinase A1 | Protein Coding | 57 | GC01P026540 | 2.782677889 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA1 |
| SULT1C3 | Sulfotransferase Family 1C Member 3 | Protein Coding | 41 | GC02P108230 | 2.780189991 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C3 |
| MICB | MHC Class I Polypeptide-Related Sequence B | Protein Coding | 47 | GC06P092149 | 2.778273106 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICB |
| ST3GAL5 | ST3 Beta-Galactoside Alpha-2,3-Sialyltransferase 5 | Protein Coding | 53 | GC02M085839 | 2.777647018 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST3GAL5 |
| PIEZO1 | Piezo Type Mechanosensitive Ion Channel Component 1 | Protein Coding | 47 | GC16M088715 | 2.772140026 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIEZO1 |
| MCAT | Malonyl-CoA-Acyl Carrier Protein Transacylase | Protein Coding | 48 | GC22M043132 | 2.77162981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCAT |
| HIBADH | 3-Hydroxyisobutyrate Dehydrogenase | Protein Coding | 47 | GC07M027525 | 2.771614313 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIBADH |
| SRSF2 | Serine And Arginine Rich Splicing Factor 2 | Protein Coding | 47 | GC17M076734 | 2.771296501 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRSF2 |
| ETS1 | ETS Proto-Oncogene 1, Transcription Factor | Protein Coding | 53 | GC11M128458 | 2.770843744 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETS1 |
| PF4 | Platelet Factor 4 | Protein Coding | 47 | GC04M073980 | 2.770424366 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PF4 |
| ALPI | Alkaline Phosphatase, Intestinal | Protein Coding | 53 | GC02P232456 | 2.770240307 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPI |
| PLCB3 | Phospholipase C Beta 3 | Protein Coding | 56 | GC11P064251 | 2.770110607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB3 |
| YBX1 | Y-Box Binding Protein 1 | Protein Coding | 46 | GC01P042682 | 2.769355774 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YBX1 |
| PANK3 | Pantothenate Kinase 3 | Protein Coding | 44 | GC05M168549 | 2.766651154 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PANK3 |
| RPL13A | Ribosomal Protein L13a | Protein Coding | 48 | GC19P049487 | 2.766079187 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL13A |

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|--------|--|----------------|----|-------------|-------------|---|
| SUCLG2 | Succinate-CoA Ligase GDP-Forming Subunit Beta | Protein Coding | 49 | GC03M067358 | 2.763974905 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCLG2 |
| FST | Follistatin | Protein Coding | 55 | GC05P053480 | 2.76219511 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FST |
| IKBKE | Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Epsilon | Protein Coding | 52 | GC01P206470 | 2.76121664 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKE |
| AWAT1 | Acyl-CoA Wax Alcohol Acyltransferase 1 | Protein Coding | 32 | GC0XP070234 | 2.760582924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AWAT1 |
| IL2RB | Interleukin 2 Receptor Subunit Beta | Protein Coding | 56 | GC22M061459 | 2.75886631 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RB |
| IRF3 | Interferon Regulatory Factor 3 | Protein Coding | 51 | GC19M049659 | 2.755576134 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF3 |
| EPHA2 | EPH Receptor A2 | Protein Coding | 60 | GC01M016124 | 2.755475283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA2 |
| ADRA2B | Adrenoceptor Alpha 2B | Protein Coding | 51 | GC02M096112 | 2.752860546 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2B |
| PRLHR | Prolactin Releasing Hormone Receptor | Protein Coding | 46 | GC10M118590 | 2.752020121 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLHR |
| FOSL1 | FOS Like 1, AP-1 Transcription Factor Subunit | Protein Coding | 51 | GC11M099737 | 2.751973152 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOSL1 |
| SENP2 | SUMO Specific Peptidase 2 | Protein Coding | 47 | GC03P185582 | 2.750661612 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SENP2 |
| TPM3 | Tropomyosin 3 | Protein Coding | 53 | GC01M154127 | 2.744642019 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPM3 |
| LCK | LCK Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 59 | GC01P032251 | 2.742602825 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCK |
| FAR2 | Fatty Acyl-CoA Reductase 2 | Protein Coding | 45 | GC12P029145 | 2.741351843 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAR2 |
| PTAFR | Platelet Activating Factor Receptor | Protein Coding | 48 | GC01M028147 | 2.740926266 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTAFR |

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| POLB | DNA Polymerase Beta | Protein Coding | 51 | GC08P042338 | 2.739527225 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLB |
| IL4R | Interleukin 4 Receptor | Protein Coding | 55 | GC16P042490 | 2.739160299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4R |
| HSD17B6 | Hydroxysteroid 17-Beta Dehydrogenase 6 | Protein Coding | 48 | GC12P056752 | 2.739024639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B6 |
| KHSRP | KH-Type Splicing Regulatory Protein | Protein Coding | 48 | GC19M006413 | 2.736800432 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHSRP |
| PTPRN2 | Protein Tyrosine Phosphatase Receptor Type N2 | Protein Coding | 52 | GC07M157539 | 2.735739231 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRN2 |
| NCL | Nucleolin | Protein Coding | 51 | GC02M231453 | 2.735020161 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCL |
| CD47 | CD47 Molecule | Protein Coding | 51 | GC03M108043 | 2.731025934 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD47 |
| CTSL | Cathepsin L | Protein Coding | 53 | GC09P087725 | 2.730602264 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSL |
| RACK1 | Receptor For Activated C Kinase 1 | Protein Coding | 50 | GC05M181933 | 2.726868153 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RACK1 |
| APLNR | Apelin Receptor | Protein Coding | 51 | GC11M057233 | 2.725875854 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLNR |
| PIAS1 | Protein Inhibitor Of Activated STAT 1 | Protein Coding | 51 | GC15P068054 | 2.72550869 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIAS1 |
| ARF1 | ADP Ribosylation Factor 1 | Protein Coding | 51 | GC01P228082 | 2.724269629 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARF1 |
| MOGAT1 | Monoacylglycerol O-Acyltransferase 1 | Protein Coding | 41 | GC02P222671 | 2.721960545 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT1 |
| BMP7 | Bone Morphogenetic Protein 7 | Protein Coding | 52 | GC20M057168 | 2.72125721 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP7 |
| CCNB1 | Cyclin B1 | Protein Coding | 53 | GC05P069167 | 2.720210075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNB1 |

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|--------|--|----------------|----|-------------|-------------|---|
| TYK2 | Tyrosine Kinase 2 | Protein Coding | 60 | GC19M010350 | 2.719821692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYK2 |
| CFLAR | CASP8 And FADD Like Apoptosis Regulator | Protein Coding | 51 | GC02P201122 | 2.718475819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFLAR |
| RECK | Reversion Inducing Cysteine Rich Protein With Kazal Motifs | Protein Coding | 47 | GC09P036036 | 2.718043327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RECK |
| MUC5AC | Mucin 5AC, Oligomeric Mucus/Gel-Forming | Protein Coding | 46 | GC11P002129 | 2.716766119 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC5AC |
| CAMKK2 | Calcium/Calmodulin Dependent Protein Kinase Kinase 2 | Protein Coding | 54 | GC12M122474 | 2.714353085 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMKK2 |
| LMOD1 | Leiomodin 1 | Protein Coding | 47 | GC01M201896 | 2.712001324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMOD1 |
| CD81 | CD81 Molecule | Protein Coding | 53 | GC11P002563 | 2.708006859 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD81 |
| SYP | Synaptophysin | Protein Coding | 52 | GC0XM049187 | 2.701478481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYP |
| FCGR2A | Fc Gamma Receptor IIa | Protein Coding | 55 | GC01P161505 | 2.700136185 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2A |
| FMOD | Fibromodulin | Protein Coding | 48 | GC01M203340 | 2.698026896 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMOD |
| MBOAT1 | Membrane Bound O-Acyltransferase Domain Containing 1 | Protein Coding | 42 | GC06M020102 | 2.697533131 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBOAT1 |
| PAK2 | P21 (RAC1) Activated Kinase 2 | Protein Coding | 55 | GC03P196739 | 2.692825556 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK2 |
| KRT19 | Keratin 19 | Protein Coding | 50 | GC17M041523 | 2.688460112 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT19 |
| SH2B3 | SH2B Adaptor Protein 3 | Protein Coding | 54 | GC12P111405 | 2.684833288 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B3 |
| PCBP1 | Poly(RC) Binding Protein 1 | Protein Coding | 48 | GC02P070087 | 2.683332443 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCBP1 |

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| LEF1 | Lymphoid Enhancer Binding Factor 1 | Protein Coding | 55 | GC04M108047 | 2.683016062 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEF1 |
| CDX2 | Caudal Type Homeobox 2 | Protein Coding | 48 | GC13M027962 | 2.681468248 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDX2 |
| ACTC1 | Actin Alpha Cardiac Muscle 1 | Protein Coding | 51 | GC15M034790 | 2.680232525 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTC1 |
| LPAR1 | Lysophosphatidic Acid Receptor 1 | Protein Coding | 53 | GC09M110873 | 2.678920269 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR1 |
| KRT7 | Keratin 7 | Protein Coding | 48 | GC12P052232 | 2.6780653 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT7 |
| HAS3 | Hyaluronan Synthase 3 | Protein Coding | 48 | GC16P069105 | 2.677442789 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAS3 |
| FYN | FYN Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 53 | GC06M111660 | 2.676315069 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FYN |
| MAP2K7 | Mitogen-Activated Protein Kinase Kinase 7 | Protein Coding | 52 | GC19P007903 | 2.675574064 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K7 |
| HSPA9 | Heat Shock Protein Family A (Hsp70) Member 9 | Protein Coding | 54 | GC05M138554 | 2.675514698 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA9 |
| TFG | Trafficking From ER To Golgi Regulator | Protein Coding | 51 | GC03P100709 | 2.672077417 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFG |
| COL3A1 | Collagen Type III Alpha 1 Chain | Protein Coding | 54 | GC02P188974 | 2.669884205 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL3A1 |
| MST1 | Macrophage Stimulating 1 | Protein Coding | 53 | GC03M049683 | 2.668335438 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MST1 |
| TBP | TATA-Box Binding Protein | Protein Coding | 55 | GC06P170554 | 2.667933941 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBP |
| RYR3 | Ryanodine Receptor 3 | Protein Coding | 48 | GC15P033310 | 2.665052652 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR3 |
| GJA1 | Gap Junction Protein Alpha 1 | Protein Coding | 57 | GC06P121436 | 2.663125038 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA1 |

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| ANK1 | Ankyrin 1 | Protein Coding | 50 | GC08M041653 | 2.662607908 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANK1 |
| SYT1 | Synaptotagmin 1 | Protein Coding | 55 | GC12P078863 | 2.662100077 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYT1 |
| BLK | BLK Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 56 | GC08P011486 | 2.66164875 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLK |
| SMAD7 | SMAD Family Member 7 | Protein Coding | 51 | GC18M048919 | 2.660331011 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD7 |
| LBP | Lipopolysaccharide Binding Protein | Protein Coding | 51 | GC20P038346 | 2.656612635 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBP |
| ZAP70 | Zeta Chain Of T Cell Receptor Associated Protein Kinase 70 | Protein Coding | 59 | GC02P097773 | 2.655203342 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZAP70 |
| JUP | Junction Plakoglobin | Protein Coding | 55 | GC17M041754 | 2.653947115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUP |
| UBE2K | Ubiquitin Conjugating Enzyme E2 K | Protein Coding | 48 | GC04P039700 | 2.653835773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2K |
| FMR1 | Fragile X Messenger Ribonucleoprotein 1 | Protein Coding | 51 | GC0XP147956 | 2.65137434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMR1 |
| MAP2K4 | Mitogen-Activated Protein Kinase Kinase 4 | Protein Coding | 53 | GC17P012020 | 2.649491787 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K4 |
| GPR42 | G Protein-Coupled Receptor 42 | Protein Coding | 30 | GC19P073881 | 2.649134159 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR42 |
| ST6GAL1 | ST6 Beta-Galactoside Alpha-2,6-Sialyltransferase 1 | Protein Coding | 51 | GC03P186930 | 2.644136429 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST6GAL1 |
| NPHS1 | NPHS1 Adhesion Molecule, Nephrin | Protein Coding | 53 | GC19M035825 | 2.644048214 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS1 |
| XPO1 | Exportin 1 | Protein Coding | 55 | GC02M061445 | 2.641967058 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=XPO1 |
| TFF3 | Trefoil Factor 3 | Protein Coding | 47 | GC21M042311 | 2.641746759 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFF3 |

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| TMPO | Thymopoietin | Protein Coding | 53 | GC12P098515 | 2.639974356 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPO |
| GNAI1 | G Protein Subunit Alpha I1 | Protein Coding | 53 | GC07P079769 | 2.639129162 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAI1 |
| REST | RE1 Silencing Transcription Factor | Protein Coding | 49 | GC04P056907 | 2.639044046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=REST |
| PPP1R1B | Protein Phosphatase 1 Regulatory Inhibitor Subunit 1B | Protein Coding | 49 | GC17P039626 | 2.632069588 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R1B |
| IL12RB1 | Interleukin 12 Receptor Subunit Beta 1 | Protein Coding | 52 | GC19M018058 | 2.624730587 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12RB1 |
| GHRHR | Growth Hormone Releasing Hormone Receptor | Protein Coding | 49 | GC07P030938 | 2.624176502 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRHR |
| EPHB4 | EPH Receptor B4 | Protein Coding | 60 | GC07M102433 | 2.621126175 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB4 |
| ADRA2C | Adrenoceptor Alpha 2C | Protein Coding | 52 | GC04P003766 | 2.617765427 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2C |
| GLYATL1 | Glycine-N-Acyltransferase Like 1 | Protein Coding | 40 | GC11P058906 | 2.615096807 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYATL1 |
| MICA | MHC Class I Polypeptide-Related Sequence A | Protein Coding | 46 | GC06P031399 | 2.612233639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICA |
| TP53BP1 | Tumor Protein P53 Binding Protein 1 | Protein Coding | 50 | GC15M043403 | 2.604650736 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53BP1 |
| AGPAT4 | 1-Acylglycerol-3-Phosphate O-Acyltransferase 4 | Protein Coding | 47 | GC06M161129 | 2.601899624 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGPAT4 |
| ROCK1 | Rho Associated Coiled-Coil Containing Protein Kinase 1 | Protein Coding | 56 | GC18M020946 | 2.60150075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROCK1 |
| NRP1 | Neuropilin 1 | Protein Coding | 54 | GC10M033177 | 2.599191189 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRP1 |
| MAPKAPK2 | MAPK Activated Protein Kinase 2 | Protein Coding | 54 | GC01P206684 | 2.598197699 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPKAPK2 |

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|---------|---|----------------|----|-------------|-------------|---|
| CCKBR | Cholecystokinin B Receptor | Protein Coding | 51 | GC11P006259 | 2.589323282 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCKBR |
| TXK | TXK Tyrosine Kinase | Protein Coding | 51 | GC04M048066 | 2.589127541 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXK |
| THEM4 | Thioesterase Superfamily Member 4 | Protein Coding | 47 | GC01M151870 | 2.588637114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THEM4 |
| TLR9 | Toll Like Receptor 9 | Protein Coding | 53 | GC03M052222 | 2.587840796 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR9 |
| PRKCQ | Protein Kinase C Theta | Protein Coding | 55 | GC10M006591 | 2.587505102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCQ |
| PTPRN | Protein Tyrosine Phosphatase Receptor Type N | Protein Coding | 51 | GC02M219289 | 2.586440563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRN |
| LHCGR | Luteinizing Hormone/Choriogonadotropin Receptor | Protein Coding | 53 | GC02M048686 | 2.585967064 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LHCGR |
| OSM | Oncostatin M | Protein Coding | 50 | GC22M030262 | 2.585475683 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSM |
| PITPNM1 | Phosphatidylinositol Transfer Protein Membrane Associated 1 | Protein Coding | 46 | GC11M099817 | 2.578641653 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITPNM1 |
| BBOX1 | Gamma-Butyrobetaine Hydroxylase 1 | Protein Coding | 46 | GC11P027019 | 2.571772099 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BBOX1 |
| USP8 | Ubiquitin Specific Peptidase 8 | Protein Coding | 53 | GC15P050424 | 2.568456888 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP8 |
| MYB | MYB Proto-Oncogene, Transcription Factor | Protein Coding | 55 | GC06P135180 | 2.568442822 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYB |
| PRF1 | Perforin 1 | Protein Coding | 53 | GC10M070597 | 2.566235065 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRF1 |
| KIF5B | Kinesin Family Member 5B | Protein Coding | 51 | GC10M033629 | 2.563094139 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5B |
| SLC9A2 | Solute Carrier Family 9 Member A2 | Protein Coding | 48 | GC02P102620 | 2.559026003 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A2 |

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|----------|---|----------------|----|-------------|-------------|---|
| CXCR3 | C-X-C Motif Chemokine Receptor 3 | Protein Coding | 51 | GC0XM071615 | 2.55614996 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR3 |
| RPL15 | Ribosomal Protein L15 | Protein Coding | 50 | GC03P023916 | 2.555617809 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL15 |
| DDX20 | DEAD-Box Helicase 20 | Protein Coding | 49 | GC01P111755 | 2.543823242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX20 |
| HSF1 | Heat Shock Transcription Factor 1 | Protein Coding | 53 | GC08P144291 | 2.543515205 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSF1 |
| TRAPPC10 | Trafficking Protein Particle Complex Subunit 10 | Protein Coding | 45 | GC21P044012 | 2.542541742 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC10 |
| TYRP1 | Tyrosinase Related Protein 1 | Protein Coding | 54 | GC09P012683 | 2.541297197 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYRP1 |
| LGMN | Legumain | Protein Coding | 49 | GC14M092703 | 2.540930271 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGMN |
| IVL | Involucrin | Protein Coding | 45 | GC01P153037 | 2.537791967 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IVL |
| NEB | Nebulin | Protein Coding | 47 | GC02M151485 | 2.537733078 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEB |
| SAFB | Scaffold Attachment Factor B | Protein Coding | 46 | GC19P005623 | 2.537121773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAFB |
| FGF7 | Fibroblast Growth Factor 7 | Protein Coding | 50 | GC15P049423 | 2.536988258 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF7 |
| SLC7A1 | Solute Carrier Family 7 Member 1 | Protein Coding | 49 | GC13M029509 | 2.536151409 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A1 |
| NR2F2 | Nuclear Receptor Subfamily 2 Group F Member 2 | Protein Coding | 56 | GC15P096325 | 2.534425974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR2F2 |
| TFPI | Tissue Factor Pathway Inhibitor | Protein Coding | 53 | GC02M187464 | 2.532000542 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPI |
| AREG | Amphiregulin | Protein Coding | 50 | GC04P074445 | 2.528548479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AREG |

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|---|---------|---|----------------|----|-------------|-------------|---|
| | CTSC | Cathepsin C | Protein Coding | 54 | GC11M100229 | 2.527719021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSC |
| | CCR3 | C-C Motif Chemokine Receptor 3 | Protein Coding | 52 | GC03P047610 | 2.519971371 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR3 |
| | ECE1 | Endothelin Converting Enzyme 1 | Protein Coding | 55 | GC01M021217 | 2.518996477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECE1 |
| | CRKL | CRK Like Proto-Oncogene, Adaptor Protein | Protein Coding | 53 | GC22P020917 | 2.518113375 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRKL |
| | CRHR1 | Corticotropin Releasing Hormone Receptor 1 | Protein Coding | 51 | GC17P045784 | 2.517398357 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR1 |
| T | AASDHPP | Aminoadipate-Semialdehyde Dehydrogenase-Phosphopantetheinyl Transferase | Protein Coding | 44 | GC11P106075 | 2.514085293 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AASDHPP |
| | FCGR3B | Fc Gamma Receptor IIIb | Protein Coding | 50 | GC01M161623 | 2.514079332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR3B |
| | ELOC | Elongin C | Protein Coding | 48 | GC08M073939 | 2.512938499 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOC |
| | CA3 | Carbonic Anhydrase 3 | Protein Coding | 48 | GC08P085373 | 2.505985737 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA3 |
| | DDX1 | DEAD-Box Helicase 1 | Protein Coding | 50 | GC02P015591 | 2.50277853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX1 |
| | SOCS2 | Suppressor Of Cytokine Signaling 2 | Protein Coding | 50 | GC12P093569 | 2.50228858 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS2 |
| | BAZ2B | Bromodomain Adjacent To Zinc Finger Domain 2B | Protein Coding | 47 | GC02M159318 | 2.50156641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAZ2B |
| | KISS1R | KISS1 Receptor | Protein Coding | 53 | GC19P000917 | 2.501128435 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KISS1R |
| | ENPP7 | Ectonucleotide Pyrophosphatase/Phosphodiesterase 7 | Protein Coding | 44 | GC17P079730 | 2.501049042 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP7 |
| | RPS6KA3 | Ribosomal Protein S6 Kinase A3 | Protein Coding | 59 | GC0XM020149 | 2.500823259 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA3 |

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|----------|--|----------------|----|-------------|-------------|---|
| TEK | TEK Receptor Tyrosine Kinase | Protein Coding | 58 | GC09P027109 | 2.500086546 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEK |
| CSK | C-Terminal Src Kinase | Protein Coding | 53 | GC15P074782 | 2.496485472 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSK |
| MPL | MPL Proto-Oncogene, Thrombopoietin Receptor | Protein Coding | 55 | GC01P043337 | 2.496141434 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPL |
| PAPPA | Pappalysin 1 | Protein Coding | 50 | GC09P119606 | 2.495812654 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAPPA |
| ARRB2 | Arrestin Beta 2 | Protein Coding | 51 | GC17P004711 | 2.491093874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARRB2 |
| SPI1 | Spi-1 Proto-Oncogene | Protein Coding | 50 | GC11M099368 | 2.48957324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPI1 |
| EPOR | Erythropoietin Receptor | Protein Coding | 56 | GC19M011377 | 2.486668587 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPOR |
| PRKCG | Protein Kinase C Gamma | Protein Coding | 58 | GC19P053879 | 2.486482143 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCG |
| ROS1 | ROS Proto-Oncogene 1, Receptor Tyrosine Kinase | Protein Coding | 53 | GC06M117287 | 2.483052492 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROS1 |
| SULT1C2 | Sulfotransferase Family 1C Member 2 | Protein Coding | 48 | GC02P108288 | 2.480620861 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1C2 |
| IL33 | Interleukin 33 | Protein Coding | 46 | GC09P007685 | 2.480547905 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL33 |
| C5AR1 | Complement C5a Receptor 1 | Protein Coding | 51 | GC19P047290 | 2.479447842 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5AR1 |
| TMPRSS15 | Transmembrane Serine Protease 15 | Protein Coding | 51 | GC21M018269 | 2.477105141 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPRSS15 |
| CHI3L1 | Chitinase 3 Like 1 | Protein Coding | 51 | GC01M203148 | 2.477016211 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHI3L1 |
| DAXX | Death Domain Associated Protein | Protein Coding | 50 | GC06M033318 | 2.475946665 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAXX |

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|--------|--|----------------|----|-------------|-------------|---|
| MTF1 | Metal Regulatory Transcription Factor 1 | Protein Coding | 47 | GC01M037810 | 2.473935127 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTF1 |
| ITIH4 | Inter-Alpha-Trypsin Inhibitor Heavy Chain 4 | Protein Coding | 50 | GC03M052812 | 2.473416805 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITIH4 |
| GIPC1 | GIPC PDZ Domain Containing Family Member 1 | Protein Coding | 51 | GC19M014689 | 2.472416639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIPC1 |
| ILK | Integrin Linked Kinase | Protein Coding | 52 | GC11P006604 | 2.47030139 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ILK |
| KRT16 | Keratin 16 | Protein Coding | 50 | GC17M041609 | 2.468029022 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT16 |
| NPR1 | Natriuretic Peptide Receptor 1 | Protein Coding | 53 | GC01P153922 | 2.459864855 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR1 |
| CRK | CRK Proto-Oncogene, Adaptor Protein | Protein Coding | 50 | GC17M001420 | 2.459316969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRK |
| VAMP2 | Vesicle Associated Membrane Protein 2 | Protein Coding | 50 | GC17M011050 | 2.459011793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAMP2 |
| PDYN | Prodynorphin | Protein Coding | 51 | GC20M001978 | 2.456013918 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDYN |
| PTGER1 | Prostaglandin E Receptor 1 | Protein Coding | 47 | GC19M014687 | 2.453777313 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER1 |
| PAX2 | Paired Box 2 | Protein Coding | 53 | GC10P100735 | 2.451199532 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX2 |
| HSPB2 | Heat Shock Protein Family B (Small) Member 2 | Protein Coding | 46 | GC11P112012 | 2.450934172 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB2 |
| BLMH | Bleomycin Hydrolase | Protein Coding | 50 | GC17M030248 | 2.450750828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLMH |
| AIF1 | Allograft Inflammatory Factor 1 | Protein Coding | 45 | GC06P092153 | 2.450322866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIF1 |
| NRG3 | Neuregulin 3 | Protein Coding | 50 | GC10P094473 | 2.449428082 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG3 |

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|--------|---|----------------|----|-------------|-------------|---|
| VEGFC | Vascular Endothelial Growth Factor C | Protein Coding | 53 | GC04M176683 | 2.448032379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFC |
| PIGW | Phosphatidylinositol Glycan Anchor Biosynthesis Class W | Protein Coding | 43 | GC17P036534 | 2.446613312 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGW |
| SPRY2 | Sprouty RTK Signaling Antagonist 2 | Protein Coding | 52 | GC13M080335 | 2.445711136 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPRY2 |
| IQGAP1 | IQ Motif Containing GTPase Activating Protein 1 | Protein Coding | 50 | GC15P090388 | 2.445117474 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IQGAP1 |
| PVALB | Parvalbumin | Protein Coding | 47 | GC22M036800 | 2.444863796 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PVALB |
| AMDHD1 | Amidohydrolase Domain Containing 1 | Protein Coding | 43 | GC12P095943 | 2.444291115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMDHD1 |
| BAK1 | BCL2 Antagonist/Killer 1 | Protein Coding | 52 | GC06M033572 | 2.443449974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAK1 |
| NRG1 | Neuregulin 1 | Protein Coding | 55 | GC08P031639 | 2.442706108 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG1 |
| CPB2 | Carboxypeptidase B2 | Protein Coding | 51 | GC13M046053 | 2.441707611 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPB2 |
| EZR | Ezrin | Protein Coding | 53 | GC06M158765 | 2.441425562 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EZR |
| AACS | Acetoacetyl-CoA Synthetase | Protein Coding | 46 | GC12P125065 | 2.440374613 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AACS |
| BACH2 | BTB Domain And CNC Homolog 2 | Protein Coding | 50 | GC06M089926 | 2.43955183 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACH2 |
| NTF3 | Neurotrophin 3 | Protein Coding | 51 | GC12P023503 | 2.429748535 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF3 |
| APLP2 | Amyloid Beta Precursor Like Protein 2 | Protein Coding | 49 | GC11P130069 | 2.429710865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLP2 |
| EIF4G1 | Eukaryotic Translation Initiation Factor 4 Gamma 1 | Protein Coding | 54 | GC03P184314 | 2.428409338 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4G1 |

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|--------------|--|--------------------|----|-------------|-------------|---|
| MAP2 | Microtubule Associated Protein 2 | Protein Coding | 51 | GC02P209424 | 2.428044796 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2 |
| PGF | Placental Growth Factor | Protein Coding | 50 | GC14M074941 | 2.426606417 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGF |
| WEE1 | WEE1 G2 Checkpoint Kinase | Protein Coding | 54 | GC11P009573 | 2.426380873 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WEE1 |
| FCGRT | Fc Gamma Receptor And Transporter | Protein Coding | 50 | GC19P049506 | 2.42273283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGRT |
| CCL27 | C-C Motif Chemokine Ligand 27 | Protein Coding | 42 | GC09M034662 | 2.421966791 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL27 |
| CD9 | CD9 Molecule | Protein Coding | 51 | GC12P023510 | 2.421341419 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD9 |
| MSN | Moesin | Protein Coding | 55 | GC0XP065588 | 2.420360327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSN |
| LOC110806262 | Solute Carrier Family 6 Member 4 Gene Promoter | Functional Element | 3 | GC17P030235 | 2.417027235 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110806262 |
| BDKRB2 | Bradykinin Receptor B2 | Protein Coding | 52 | GC14P096205 | 2.415146828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB2 |
| GGCT | Gamma-Glutamylcyclotransferase | Protein Coding | 46 | GC07M030496 | 2.414832115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGCT |
| MPZ | Myelin Protein Zero | Protein Coding | 52 | GC01M161304 | 2.414045811 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPZ |
| BMPR1B | Bone Morphogenetic Protein Receptor Type 1B | Protein Coding | 56 | GC04P094757 | 2.412981272 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR1B |
| CHGB | Chromogranin B | Protein Coding | 48 | GC20P005911 | 2.411474943 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHGB |
| ITGA3 | Integrin Subunit Alpha 3 | Protein Coding | 55 | GC17P050055 | 2.40312171 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA3 |
| TPT1 | Tumor Protein, Translationally-Controlled 1 | Protein Coding | 53 | GC13M045333 | 2.400903463 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPT1 |

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|----------|---|----------------|----|-------------|-------------|---|
| PIK3R3 | Phosphoinositide-3-Kinase Regulatory Subunit 3 | Protein Coding | 50 | GC01M046041 | 2.399698496 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R3 |
| FSHB | Follicle Stimulating Hormone Subunit Beta | Protein Coding | 51 | GC11P030210 | 2.397188187 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSHB |
| GABBR1 | Gamma-Aminobutyric Acid Type B Receptor Subunit 1 | Protein Coding | 53 | GC06M029555 | 2.396708727 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GABBR1 |
| PICK1 | Protein Interacting With PRKCA 1 | Protein Coding | 50 | GC22P038056 | 2.396637917 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PICK1 |
| CAMK4 | Calcium/Calmodulin Dependent Protein Kinase IV | Protein Coding | 52 | GC05P111223 | 2.395980835 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK4 |
| SND1 | Staphylococcal Nuclease And Tudor Domain Containing 1 | Protein Coding | 48 | GC07P127652 | 2.395704985 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SND1 |
| HDAC7 | Histone Deacetylase 7 | Protein Coding | 53 | GC12M047782 | 2.395572424 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC7 |
| SERPINB3 | Serpin Family B Member 3 | Protein Coding | 47 | GC18M063655 | 2.395550489 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB3 |
| EGR1 | Early Growth Response 1 | Protein Coding | 52 | GC05P138465 | 2.392300129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGR1 |
| IRS4 | Insulin Receptor Substrate 4 | Protein Coding | 47 | GC0XM108720 | 2.391109467 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS4 |
| EIF3A | Eukaryotic Translation Initiation Factor 3 Subunit A | Protein Coding | 51 | GC10M119034 | 2.389075279 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF3A |
| GDNF | Glial Cell Derived Neurotrophic Factor | Protein Coding | 56 | GC05M037812 | 2.386838436 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDNF |
| ARRB1 | Arrestin Beta 1 | Protein Coding | 51 | GC11M100029 | 2.385669708 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARRB1 |
| KRT5 | Keratin 5 | Protein Coding | 52 | GC12M052514 | 2.385361433 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT5 |
| SLC22A9 | Solute Carrier Family 22 Member 9 | Protein Coding | 43 | GC11P063388 | 2.381622076 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A9 |

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| MUC16 | Mucin 16, Cell Surface Associated | Protein Coding | 44 | GC19M008848 | 2.38140893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC16 |
| ITCH | Itchy E3 Ubiquitin Protein Ligase | Protein Coding | 53 | GC20P034363 | 2.380997658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITCH |
| VCL | Vinculin | Protein Coding | 54 | GC10P073995 | 2.380882263 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCL |
| TUBA1B | Tubulin Alpha 1b | Protein Coding | 51 | GC12M049127 | 2.375025034 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBA1B |
| EEF1D | Eukaryotic Translation Elongation Factor 1 Delta | Protein Coding | 47 | GC08M143579 | 2.374794006 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1D |
| CAMP | Cathelicidin Antimicrobial Peptide | Protein Coding | 46 | GC03P049961 | 2.373255253 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMP |
| ITGB4 | Integrin Subunit Beta 4 | Protein Coding | 56 | GC17P075721 | 2.372350454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB4 |
| ASIC1 | Acid Sensing Ion Channel Subunit 1 | Protein Coding | 52 | GC12P050057 | 2.370299101 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASIC1 |
| GTF2I | General Transcription Factor Iii | Protein Coding | 47 | GC07P076418 | 2.37008667 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF2I |
| CYB561 | Cytochrome B561 | Protein Coding | 48 | GC17M063432 | 2.368448734 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYB561 |
| MINPP1 | Multiple Inositol-Polyphosphate Phosphatase 1 | Protein Coding | 53 | GC10P087504 | 2.367403507 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MINPP1 |
| STMN1 | Stathmin 1 | Protein Coding | 51 | GC01M025884 | 2.365449429 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMN1 |
| CISH | Cytokine Inducible SH2 Containing Protein | Protein Coding | 52 | GC03M051766 | 2.364514351 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CISH |
| PELP1 | Proline, Glutamate And Leucine Rich Protein 1 | Protein Coding | 46 | GC17M004669 | 2.364390135 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PELP1 |
| CXADR | CXADR Ig-Like Cell Adhesion Molecule | Protein Coding | 50 | GC21P017513 | 2.361170053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXADR |

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|---------|---|----------------|----|-------------|-------------|---|
| CTTN | Cortactin | Protein Coding | 50 | GC11P070398 | 2.358932734 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTTN |
| FOLR3 | Folate Receptor Gamma | Protein Coding | 46 | GC11P072114 | 2.358604431 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOLR3 |
| HAT1 | Histone Acetyltransferase 1 | Protein Coding | 49 | GC02P171922 | 2.356448412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAT1 |
| IFI27 | Interferon Alpha Inducible Protein 27 | Protein Coding | 44 | GC14P094104 | 2.356122971 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFI27 |
| RYR2 | Ryanodine Receptor 2 | Protein Coding | 53 | GC01P237042 | 2.352290869 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR2 |
| RHO | Rhodopsin | Protein Coding | 55 | GC03P134990 | 2.350380659 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHO |
| HAVCR1 | Hepatitis A Virus Cellular Receptor 1 | Protein Coding | 50 | GC05M157028 | 2.349440813 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAVCR1 |
| OR51E2 | Olfactory Receptor Family 51 Subfamily E Member 2 | Protein Coding | 38 | GC11M004680 | 2.346513271 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR51E2 |
| CA14 | Carbonic Anhydrase 14 | Protein Coding | 50 | GC01P150436 | 2.342910767 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA14 |
| BCL2L11 | BCL2 Like 11 | Protein Coding | 52 | GC02P111119 | 2.341534853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L11 |
| IRF5 | Interferon Regulatory Factor 5 | Protein Coding | 53 | GC07P128937 | 2.339133978 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF5 |
| GPRC6A | G Protein-Coupled Receptor Class C Group 6 Member A | Protein Coding | 44 | GC06M116793 | 2.336325645 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPRC6A |
| S1PR1 | Sphingosine-1-Phosphate Receptor 1 | Protein Coding | 52 | GC01P101236 | 2.336192608 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR1 |
| H2AX | H2A.X Variant Histone | Protein Coding | 50 | GC11M119285 | 2.332493782 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2AX |
| MITF | Melanocyte Inducing Transcription Factor | Protein Coding | 55 | GC03P069788 | 2.331109762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MITF |

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|-----------|--|----------------|----|-------------|-------------|---|
| RGS2 | Regulator Of G Protein Signaling 2 | Protein Coding | 48 | GC01P192809 | 2.330634117 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS2 |
| LPAR3 | Lysophosphatidic Acid Receptor 3 | Protein Coding | 50 | GC01M084811 | 2.325584888 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR3 |
| TGFB3 | Transforming Growth Factor Beta 3 | Protein Coding | 54 | GC14M075958 | 2.324998617 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB3 |
| PTP4A2 | Protein Tyrosine Phosphatase 4A2 | Protein Coding | 48 | GC01M031910 | 2.324296236 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTP4A2 |
| TNFRSF10B | TNF Receptor Superfamily Member 10b | Protein Coding | 57 | GC08M023020 | 2.323630333 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF10B |
| SLC15A2 | Solute Carrier Family 15 Member 2 | Protein Coding | 47 | GC03P121894 | 2.316164017 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A2 |
| CLEC7A | C-Type Lectin Domain Containing 7A | Protein Coding | 52 | GC12M022628 | 2.315096617 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC7A |
| OXSM | 3-Oxoacyl-ACP Synthase, Mitochondrial | Protein Coding | 44 | GC03P025782 | 2.312613249 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXSM |
| GNRHR | Gonadotropin Releasing Hormone Receptor | Protein Coding | 54 | GC04M067737 | 2.305584192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRHR |
| PTPRD | Protein Tyrosine Phosphatase Receptor Type D | Protein Coding | 52 | GC09M008307 | 2.301552773 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRD |
| NPHS2 | NPHS2 Stomatin Family Member, Podocin | Protein Coding | 50 | GC01M179554 | 2.300552607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS2 |
| SLC9A3R1 | SLC9A3 Regulator 1 | Protein Coding | 52 | GC17P074749 | 2.29944706 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3R1 |
| KRT1 | Keratin 1 | Protein Coding | 53 | GC12M052674 | 2.297845602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT1 |
| EWSR1 | EWS RNA Binding Protein 1 | Protein Coding | 51 | GC22P044790 | 2.296663523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EWSR1 |
| SMG1 | SMG1 Nonsense Mediated MRNA Decay Associated PI3K Related Kinase | Protein Coding | 46 | GC16M019413 | 2.292959452 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMG1 |

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| CAMK2A | Calcium/Calmodulin Dependent Protein Kinase II Alpha | Protein Coding | 59 | GC05M150219 | 2.292059183 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2A |
| CHRNA7 | Cholinergic Receptor Nicotinic Alpha 7 Subunit | Protein Coding | 52 | GC15P031923 | 2.290010691 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA7 |
| RAP1A | RAP1A, Member Of RAS Oncogene Family | Protein Coding | 51 | GC01P111542 | 2.289759874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAP1A |
| EIF2AK2 | Eukaryotic Translation Initiation Factor 2 Alpha Kinase 2 | Protein Coding | 56 | GC02M037099 | 2.28935051 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK2 |
| IGHG1 | Immunoglobulin Heavy Constant Gamma 1 (G1m Marker) | Protein Coding | 40 | GC14M105736 | 2.288361549 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGHG1 |
| PKN2 | Protein Kinase N2 | Protein Coding | 52 | GC01P088684 | 2.288004875 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKN2 |
| KRT17 | Keratin 17 | Protein Coding | 51 | GC17M041619 | 2.285661221 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT17 |
| PKN1 | Protein Kinase N1 | Protein Coding | 56 | GC19P014433 | 2.285643816 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKN1 |
| TTL | Tubulin Tyrosine Ligase | Protein Coding | 46 | GC02P123790 | 2.280835867 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTL |
| GSTT2 | Glutathione S-Transferase Theta 2 (Gene/Pseudogene) | Protein Coding | 40 | GC22P023980 | 2.280731201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTT2 |
| NPPC | Natriuretic Peptide C | Protein Coding | 48 | GC02M231921 | 2.280587196 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPC |
| CR2 | Complement C3d Receptor 2 | Protein Coding | 53 | GC01P207454 | 2.280513048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR2 |
| TUBB3 | Tubulin Beta 3 Class III | Protein Coding | 55 | GC16P091607 | 2.279607296 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB3 |
| PHOX2B | Paired Like Homeobox 2B | Protein Coding | 51 | GC04M041746 | 2.278419018 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHOX2B |
| VEGF | VEGF Nerve Growth Factor Inducible | Protein Coding | 45 | GC07M101162 | 2.278366566 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGF |

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| SERPINH1 | Serpin Family H Member 1 | Protein Coding | 53 | GC11P075562 | 2.277401924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINH1 |
| GYPB | Glycophorin B (MNS Blood Group) | Protein Coding | 43 | GC04M143996 | 2.275601149 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPB |
| WNT1 | Wnt Family Member 1 | Protein Coding | 52 | GC12P049566 | 2.275330067 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT1 |
| PTGER2 | Prostaglandin E Receptor 2 | Protein Coding | 55 | GC14P052314 | 2.275265217 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER2 |
| JUNB | JunB Proto-Oncogene, AP-1 Transcription Factor Subunit | Protein Coding | 48 | GC19P012791 | 2.274892807 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUNB |
| CTNND1 | Catenin Delta 1 | Protein Coding | 52 | GC11P058206 | 2.270763636 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNND1 |
| VNN2 | Vanin 2 | Protein Coding | 48 | GC06M132743 | 2.269202709 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VNN2 |
| KAT2A | Lysine Acetyltransferase 2A | Protein Coding | 55 | GC17M042113 | 2.268852472 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT2A |
| MST1R | Macrophage Stimulating 1 Receptor | Protein Coding | 56 | GC03M051598 | 2.268038988 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MST1R |
| SRF | Serum Response Factor | Protein Coding | 50 | GC06P043171 | 2.267645597 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRF |
| GLCCI1 | Glucocorticoid Induced 1 | Protein Coding | 43 | GC07P007974 | 2.263047218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLCCI1 |
| RPL3 | Ribosomal Protein L3 | Protein Coding | 48 | GC22M061482 | 2.262486219 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL3 |
| CHEK1 | Checkpoint Kinase 1 | Protein Coding | 56 | GC11P125625 | 2.262406826 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK1 |
| NPY2R | Neuropeptide Y Receptor Y2 | Protein Coding | 51 | GC04P155173 | 2.261928558 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY2R |
| SSTR2 | Somatostatin Receptor 2 | Protein Coding | 53 | GC17P073165 | 2.258113146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR2 |

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|---------|--|----------------|----|-------------|-------------|---|
| EPX | Eosinophil Peroxidase | Protein Coding | 50 | GC17P058192 | 2.257993698 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPX |
| CALCR | Calcitonin Receptor | Protein Coding | 55 | GC07M093424 | 2.256989479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCR |
| CD33 | CD33 Molecule | Protein Coding | 52 | GC19P073323 | 2.256884336 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD33 |
| PLA2G2D | Phospholipase A2 Group IID | Protein Coding | 49 | GC01M020111 | 2.250037909 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2D |
| KRT4 | Keratin 4 | Protein Coding | 48 | GC12M052806 | 2.247910023 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT4 |
| NCF2 | Neutrophil Cytosolic Factor 2 | Protein Coding | 54 | GC01M184057 | 2.243585348 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCF2 |
| TRB | T Cell Receptor Beta Locus | Protein Coding | 25 | GC07P150792 | 2.242851019 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRB |
| GRM2 | Glutamate Metabotropic Receptor 2 | Protein Coding | 52 | GC03P051707 | 2.236067772 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM2 |
| AXL | AXL Receptor Tyrosine Kinase | Protein Coding | 59 | GC19P041219 | 2.235015631 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AXL |
| FLT4 | Fms Related Receptor Tyrosine Kinase 4 | Protein Coding | 59 | GC05M180644 | 2.23460269 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT4 |
| RASA1 | RAS P21 Protein Activator 1 | Protein Coding | 52 | GC05P087267 | 2.232948542 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA1 |
| NOP2 | NOP2 Nucleolar Protein | Protein Coding | 44 | GC12M006556 | 2.232879877 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOP2 |
| ANXA6 | Annexin A6 | Protein Coding | 49 | GC05M151100 | 2.230432749 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA6 |
| CD14 | CD14 Molecule | Protein Coding | 53 | GC05M140631 | 2.229529858 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD14 |
| SLC18A1 | Solute Carrier Family 18 Member A1 | Protein Coding | 49 | GC08M020144 | 2.224712849 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A1 |

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| PCM1 | Pericentriolar Material 1 | Protein Coding | 48 | GC08P017922 | 2.223807573 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCM1 |
| TSLP | Thymic Stromal Lymphopoietin | Protein Coding | 46 | GC05P111070 | 2.220189095 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSLP |
| ITGAV | Integrin Subunit Alpha V | Protein Coding | 55 | GC02P186589 | 2.220042944 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAV |
| CASP7 | Caspase 7 | Protein Coding | 56 | GC10P113679 | 2.215365887 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP7 |
| RRAS2 | RAS Related 2 | Protein Coding | 55 | GC11M014299 | 2.213180065 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRAS2 |
| CANT1 | Calcium Activated Nucleotidase 1 | Protein Coding | 51 | GC17M078992 | 2.212469816 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANT1 |
| FGF9 | Fibroblast Growth Factor 9 | Protein Coding | 51 | GC13P021671 | 2.206700563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF9 |
| NECTIN2 | Nectin Cell Adhesion Molecule 2 | Protein Coding | 51 | GC19P073053 | 2.205529928 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NECTIN2 |
| P2RY2 | Purinergic Receptor P2Y2 | Protein Coding | 51 | GC11P073202 | 2.203983545 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY2 |
| SLC5A12 | Solute Carrier Family 5 Member 12 | Protein Coding | 43 | GC11M026648 | 2.202407837 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A12 |
| MTA1 | Metastasis Associated 1 | Protein Coding | 50 | GC14P105419 | 2.200025558 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTA1 |
| CD247 | CD247 Molecule | Protein Coding | 56 | GC01M167399 | 2.198839188 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD247 |
| CXCL1 | C-X-C Motif Chemokine Ligand 1 | Protein Coding | 50 | GC04P073869 | 2.19849968 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL1 |
| AP2B1 | Adaptor Related Protein Complex 2 Subunit Beta 1 | Protein Coding | 49 | GC17P035578 | 2.197745085 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP2B1 |
| PALLD | Palladin, Cytoskeletal Associated Protein | Protein Coding | 49 | GC04P168497 | 2.195952415 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PALLD |

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| KCNJ6 | Potassium Inwardly Rectifying Channel Subfamily J Member 6 | Protein Coding | 53 | GC21M037607 | 2.194558859 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ6 |
| PXN | Paxillin | Protein Coding | 52 | GC12M120210 | 2.194096565 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PXN |
| FGF1 | Fibroblast Growth Factor 1 | Protein Coding | 54 | GC05M142555 | 2.19223547 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF1 |
| TOR1A | Torsin Family 1 Member A | Protein Coding | 52 | GC09M129812 | 2.189523697 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOR1A |
| IFNAR2 | Interferon Alpha And Beta Receptor Subunit 2 | Protein Coding | 56 | GC21P033229 | 2.188015223 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNAR2 |
| LORICRIN | Loricrin Cornified Envelope Precursor Protein | Protein Coding | 41 | GC01P153262 | 2.187447548 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LORICRIN |
| UGT2A1 | UDP Glucuronosyltransferase Family 2 Member A1 Complex Locus | Protein Coding | 39 | GC04M069588 | 2.187245607 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2A1 |
| DNAJA3 | DnaJ Heat Shock Protein Family (Hsp40) Member A3 | Protein Coding | 47 | GC16P004425 | 2.186523199 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAJA3 |
| NPHP1 | Nephrocystin 1 | Protein Coding | 50 | GC02M110122 | 2.185429335 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHP1 |
| ELK1 | ETS Transcription Factor ELK1 | Protein Coding | 50 | GC0XM047635 | 2.183863878 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELK1 |
| GAS6 | Growth Arrest Specific 6 | Protein Coding | 51 | GC13M113820 | 2.181773901 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS6 |
| RPL8 | Ribosomal Protein L8 | Protein Coding | 47 | GC08M145667 | 2.181601048 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL8 |
| NBAS | NBAS Subunit Of NRZ Tethering Complex | Protein Coding | 47 | GC02M014791 | 2.18016696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NBAS |
| HARS2 | Histidyl-TRNA Synthetase 2, Mitochondrial | Protein Coding | 51 | GC05P146979 | 2.180040359 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HARS2 |
| TIAM1 | TIAM Rac1 Associated GEF 1 | Protein Coding | 51 | GC21M031118 | 2.179636002 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIAM1 |

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| TRAF2 | TNF Receptor Associated Factor 2 | Protein Coding | 51 | GC09P136881 | 2.178793192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF2 |
| RCAN1 | Regulator Of Calcineurin 1 | Protein Coding | 49 | GC21M034513 | 2.1757195 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCAN1 |
| TUBG1 | Tubulin Gamma 1 | Protein Coding | 53 | GC17P042609 | 2.174733877 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBG1 |
| LAP3 | Leucine Aminopeptidase 3 | Protein Coding | 48 | GC04P019261 | 2.167632818 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAP3 |
| MMP12 | Matrix Metallopeptidase 12 | Protein Coding | 53 | GC11M102862 | 2.162835836 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP12 |
| APEH | Acylaminoacyl-Peptide Hydrolase | Protein Coding | 47 | GC03P049673 | 2.162119865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=APEH |
| MOGAT3 | Monoacylglycerol O-Acyltransferase 3 | Protein Coding | 38 | GC07M101192 | 2.160770655 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOGAT3 |
| POU2F2 | POU Class 2 Homeobox 2 | Protein Coding | 48 | GC19M042086 | 2.157357693 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU2F2 |
| KDM4A | Lysine Demethylase 4A | Protein Coding | 51 | GC01P043650 | 2.156814098 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KDM4A |
| CD86 | CD86 Molecule | Protein Coding | 51 | GC03P122055 | 2.156406641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD86 |
| GRPR | Gastrin Releasing Peptide Receptor | Protein Coding | 50 | GC0XP016141 | 2.155606985 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRPR |
| CHRM2 | Cholinergic Receptor Muscarinic 2 | Protein Coding | 55 | GC07P136868 | 2.15210104 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM2 |
| MSRB1 | Methionine Sulfoxide Reductase B1 | Protein Coding | 45 | GC16M008078 | 2.151757956 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSRB1 |
| SSBP1 | Single Stranded DNA Binding Protein 1 | Protein Coding | 47 | GC07P150787 | 2.150444269 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSBP1 |
| CXCL5 | C-X-C Motif Chemokine Ligand 5 | Protein Coding | 47 | GC04M073995 | 2.147365332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL5 |

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| PPP3CA | Protein Phosphatase 3 Catalytic Subunit Alpha | Protein Coding | 59 | GC04M101024 | 2.147106171 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP3CA |
| GUCA2B | Guanylate Cyclase Activator 2B | Protein Coding | 44 | GC01P042153 | 2.145024538 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCA2B |
| MIP | Major Intrinsic Protein Of Lens Fiber | Protein Coding | 47 | GC12M056449 | 2.14080596 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIP |
| GPR139 | G Protein-Coupled Receptor 139 | Protein Coding | 41 | GC16M020042 | 2.138799429 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR139 |
| COX4I2 | Cytochrome C Oxidase Subunit 4I2 | Protein Coding | 47 | GC20P031637 | 2.136496305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX4I2 |
| ITGA4 | Integrin Subunit Alpha 4 | Protein Coding | 55 | GC02P181456 | 2.135978699 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA4 |
| SLC5A3 | Solute Carrier Family 5 Member 3 | Protein Coding | 46 | GC21P034139 | 2.13568759 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A3 |
| CXCL9 | C-X-C Motif Chemokine Ligand 9 | Protein Coding | 47 | GC04M076001 | 2.134976625 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL9 |
| EEF2K | Eukaryotic Elongation Factor 2 Kinase | Protein Coding | 53 | GC16P024508 | 2.13412714 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF2K |
| MMP7 | Matrix Metalloproteinase 7 | Protein Coding | 53 | GC11M102425 | 2.130843878 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP7 |
| KAT2B | Lysine Acetyltransferase 2B | Protein Coding | 55 | GC03P020043 | 2.130774498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT2B |
| CDC25C | Cell Division Cycle 25C | Protein Coding | 54 | GC05M138285 | 2.12878871 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25C |
| UTRN | Utrophin | Protein Coding | 47 | GC06P144285 | 2.123741865 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTRN |
| TYRO3 | TYRO3 Protein Tyrosine Kinase | Protein Coding | 56 | GC15P041557 | 2.121773958 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYRO3 |
| MAP2K3 | Mitogen-Activated Protein Kinase Kinase 3 | Protein Coding | 55 | GC17P061212 | 2.121331215 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K3 |

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| DPYSL2 | Dihydropyrimidinase Like 2 | Protein Coding | 52 | GC08P026514 | 2.119753838 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL2 |
| HDAC5 | Histone Deacetylase 5 | Protein Coding | 56 | GC17M044076 | 2.118413448 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC5 |
| TPST2 | Tyrosylprotein Sulfotransferase 2 | Protein Coding | 47 | GC22M061183 | 2.113404989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPST2 |
| MERTK | MER Proto-Oncogene, Tyrosine Kinase | Protein Coding | 59 | GC02P111898 | 2.112577915 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MERTK |
| NGB | Neuroglobin | Protein Coding | 43 | GC14M077265 | 2.111859798 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGB |
| PTP4A1 | Protein Tyrosine Phosphatase 4A1 | Protein Coding | 47 | GC06P092552 | 2.11169529 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTP4A1 |
| GIT2 | GIT ArfGAP 2 | Protein Coding | 48 | GC12M109929 | 2.111174107 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIT2 |
| SH2D1A | SH2 Domain Containing 1A | Protein Coding | 53 | GC0XP124227 | 2.110352278 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D1A |
| SORBS1 | Sorbin And SH3 Domain Containing 1 | Protein Coding | 48 | GC10M095311 | 2.107699394 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORBS1 |
| NR2E3 | Nuclear Receptor Subfamily 2 Group E Member 3 | Protein Coding | 48 | GC15P071792 | 2.107695341 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR2E3 |
| RNPC3 | RNA Binding Region (RNP1, RRM) Containing 3 | Protein Coding | 42 | GC01P103525 | 2.104146481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNPC3 |
| PPT2 | Palmitoyl-Protein Thioesterase 2 | Protein Coding | 44 | GC06P032153 | 2.102693081 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPT2 |
| EPHA3 | EPH Receptor A3 | Protein Coding | 53 | GC03P089077 | 2.101714849 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA3 |
| CD69 | CD69 Molecule | Protein Coding | 49 | GC12M022623 | 2.100873947 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD69 |
| NTRK3 | Neurotrophic Receptor Tyrosine Kinase 3 | Protein Coding | 59 | GC15M087859 | 2.100211382 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK3 |

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|---------|--|----------------|----|-------------|-------------|---|
| ARHGEF2 | Rho/Rac Guanine Nucleotide Exchange Factor 2 | Protein Coding | 52 | GC01M155946 | 2.094944477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF2 |
| TNFRSF9 | TNF Receptor Superfamily Member 9 | Protein Coding | 50 | GC01M007915 | 2.094399691 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF9 |
| BID | BH3 Interacting Domain Death Agonist | Protein Coding | 52 | GC22M017734 | 2.09288168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BID |
| RRAS | RAS Related | Protein Coding | 48 | GC19M049635 | 2.091985941 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RRAS |
| ITGA6 | Integrin Subunit Alpha 6 | Protein Coding | 56 | GC02P172427 | 2.089226961 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA6 |
| MTPN | Myotrophin | Protein Coding | 41 | GC07M135926 | 2.08886981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTPN |
| HCK | HCK Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 54 | GC20P032052 | 2.088297129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCK |
| FKBP1A | FKBP Prolyl Isomerase 1A | Protein Coding | 54 | GC20M001369 | 2.087401867 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP1A |
| SLC18A3 | Solute Carrier Family 18 Member A3 | Protein Coding | 50 | GC10P049610 | 2.086946011 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC18A3 |
| ADI1 | Acireductone Dioxygenase 1 | Protein Coding | 46 | GC02M003501 | 2.086838961 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADI1 |
| COL4A1 | Collagen Type IV Alpha 1 Chain | Protein Coding | 55 | GC13M110148 | 2.084783077 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A1 |
| MASP1 | MBL Associated Serine Protease 1 | Protein Coding | 55 | GC03M187216 | 2.084374428 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MASP1 |
| ADORA2B | Adenosine A2b Receptor | Protein Coding | 55 | GC17P017963 | 2.084364653 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2B |
| DLG2 | Discs Large MAGUK Scaffold Protein 2 | Protein Coding | 48 | GC11M083455 | 2.081746817 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG2 |
| PRG2 | Proteoglycan 2, Pro Eosinophil Major Basic Protein | Protein Coding | 47 | GC11M057386 | 2.079038382 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRG2 |

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| KHDRBS2 | KH RNA Binding Domain Containing, Signal Transduction Associated 2 | Protein Coding | 43 | GC06M061542 | 2.074846268 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDRBS2 |
| FOXP2 | Forkhead Box P2 | Protein Coding | 50 | GC07P114086 | 2.072494745 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXP2 |
| POLK | DNA Polymerase Kappa | Protein Coding | 49 | GC05P075511 | 2.071971893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLK |
| FCGR1A | Fc Gamma Receptor Ia | Protein Coding | 48 | GC01P150388 | 2.06972146 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR1A |
| RPL23A | Ribosomal Protein L23a | Protein Coding | 47 | GC17P028719 | 2.064439297 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL23A |
| ATN1 | Atrophin 1 | Protein Coding | 50 | GC12P023561 | 2.062030077 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATN1 |
| SFTPA1 | Surfactant Protein A1 | Protein Coding | 51 | GC10P095475 | 2.061035395 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPA1 |
| CSF3R | Colony Stimulating Factor 3 Receptor | Protein Coding | 54 | GC01M036466 | 2.059127331 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3R |
| MYO18A | Myosin XVIIIa | Protein Coding | 44 | GC17M051199 | 2.057760477 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO18A |
| GP6 | Glycoprotein VI Platelet | Protein Coding | 53 | GC19M055013 | 2.057397366 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP6 |
| HUWE1 | HECT, UBA And WWE Domain Containing E3 Ubiquitin Protein Ligase 1 | Protein Coding | 52 | GC0XM053532 | 2.05684495 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HUWE1 |
| SLC9A3R2 | SLC9A3 Regulator 2 | Protein Coding | 45 | GC16P013511 | 2.05680871 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3R2 |
| NUDT1 | Nudix Hydrolase 1 | Protein Coding | 48 | GC07P002242 | 2.056804657 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDT1 |
| CCL3 | C-C Motif Chemokine Ligand 3 | Protein Coding | 46 | GC17M036088 | 2.054622173 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL3 |
| PSIP1 | PC4 And SRSF1 Interacting Protein 1 | Protein Coding | 47 | GC09M015464 | 2.052438974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSIP1 |

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|----------|---|----------------|----|-------------|-------------|---|
| LMO2 | LIM Domain Only 2 | Protein Coding | 47 | GC11M033858 | 2.05214572 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMO2 |
| PTPRF | Protein Tyrosine Phosphatase Receptor Type F | Protein Coding | 56 | GC01P043527 | 2.049630642 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRF |
| VEGFB | Vascular Endothelial Growth Factor B | Protein Coding | 51 | GC11P064234 | 2.048155546 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFB |
| CPA1 | Carboxypeptidase A1 | Protein Coding | 51 | GC07P130380 | 2.048068523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPA1 |
| SNAI2 | Snail Family Transcriptional Repressor 2 | Protein Coding | 51 | GC08M048917 | 2.047676325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNAI2 |
| CEACAM1 | CEA Cell Adhesion Molecule 1 | Protein Coding | 51 | GC19M042507 | 2.047606945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM1 |
| TPST1 | Tyrosylprotein Sulfotransferase 1 | Protein Coding | 47 | GC07P071715 | 2.046896458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPST1 |
| C3AR1 | Complement C3a Receptor 1 | Protein Coding | 50 | GC12M008059 | 2.04667449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C3AR1 |
| EIF6 | Eukaryotic Translation Initiation Factor 6 | Protein Coding | 47 | GC20M035278 | 2.044235945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF6 |
| SUMO1 | Small Ubiquitin Like Modifier 1 | Protein Coding | 53 | GC02M202206 | 2.042767763 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUMO1 |
| TIE1 | Tyrosine Kinase With Immunoglobulin Like And EGF Like Domains 1 | Protein Coding | 52 | GC01P043300 | 2.041883707 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIE1 |
| CENPF | Centromere Protein F | Protein Coding | 48 | GC01P214603 | 2.041686535 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CENPF |
| TNC | Tenascin C | Protein Coding | 56 | GC09M115019 | 2.041381836 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNC |
| SERPINB2 | Serpin Family B Member 2 | Protein Coding | 50 | GC18P063871 | 2.040825367 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB2 |
| SLC47A1 | Solute Carrier Family 47 Member 1 | Protein Coding | 48 | GC17P019495 | 2.040024042 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC47A1 |

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|--------|--|----------------|----|-------------|-------------|---|
| MCAM | Melanoma Cell Adhesion Molecule | Protein Coding | 49 | GC11M119308 | 2.03592515 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCAM |
| G3BP1 | G3BP Stress Granule Assembly Factor 1 | Protein Coding | 47 | GC05P151771 | 2.033505201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=G3BP1 |
| OPRD1 | Opioid Receptor Delta 1 | Protein Coding | 50 | GC01P028812 | 2.032579899 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRD1 |
| KRT10 | Keratin 10 | Protein Coding | 50 | GC17M040818 | 2.029624939 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT10 |
| DNM3 | Dynamin 3 | Protein Coding | 50 | GC01P171868 | 2.028045177 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM3 |
| NOG | Noggin | Protein Coding | 53 | GC17P056593 | 2.026612282 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOG |
| HIP1 | Huntingtin Interacting Protein 1 | Protein Coding | 47 | GC07M075533 | 2.025650978 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIP1 |
| DMPK | DM1 Protein Kinase | Protein Coding | 55 | GC19M045769 | 2.02176404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMPK |
| MUSK | Muscle Associated Receptor Tyrosine Kinase | Protein Coding | 55 | GC09P110668 | 2.02113533 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUSK |
| USP1 | Ubiquitin Specific Peptidase 1 | Protein Coding | 51 | GC01P062436 | 2.019223452 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP1 |
| CCNG1 | Cyclin G1 | Protein Coding | 47 | GC05P163438 | 2.017747879 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNG1 |
| BLZF1 | Basic Leucine Zipper Nuclear Factor 1 | Protein Coding | 45 | GC01P169367 | 2.013850212 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLZF1 |
| MYOD1 | Myogenic Differentiation 1 | Protein Coding | 53 | GC11P017741 | 2.008466005 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOD1 |
| SLX9 | SLX9 Ribosome Biogenesis Factor | Protein Coding | 35 | GC21P044939 | 2.005723715 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLX9 |
| LGALS4 | Galectin 4 | Protein Coding | 44 | GC19M070551 | 2.00537014 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS4 |

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| ZBTB16 | Zinc Finger And BTB Domain Containing 16 | Protein Coding | 50 | GC11P114059 | 2.005048513 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB16 |
| PIGR | Polymeric Immunoglobulin Receptor | Protein Coding | 48 | GC01M206928 | 2.003614426 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGR |
| ROR2 | Receptor Tyrosine Kinase Like Orphan Receptor 2 | Protein Coding | 55 | GC09M096500 | 1.999219894 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROR2 |
| CA7 | Carbonic Anhydrase 7 | Protein Coding | 44 | GC16P066844 | 1.998595476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA7 |
| IFNGR1 | Interferon Gamma Receptor 1 | Protein Coding | 57 | GC06M137197 | 1.997519255 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNGR1 |
| CCL7 | C-C Motif Chemokine Ligand 7 | Protein Coding | 50 | GC17P034270 | 1.996502876 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL7 |
| SELPLG | Selectin P Ligand | Protein Coding | 51 | GC12M108621 | 1.995840073 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELPLG |
| C4B | Complement C4B (Chido Blood Group) | Protein Coding | 48 | GC06P032014 | 1.993642092 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4B |
| WNT2 | Wnt Family Member 2 | Protein Coding | 50 | GC07M117313 | 1.993524075 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT2 |
| LMX1B | LIM Homeobox Transcription Factor 1 Beta | Protein Coding | 51 | GC09P126614 | 1.992806673 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMX1B |
| RHOH | Ras Homolog Family Member H | Protein Coding | 51 | GC04P040192 | 1.990023136 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOH |
| IL9 | Interleukin 9 | Protein Coding | 50 | GC05M135891 | 1.989136219 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL9 |
| GRB10 | Growth Factor Receptor Bound Protein 10 | Protein Coding | 49 | GC07M050590 | 1.986071348 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB10 |
| ROBO1 | Roundabout Guidance Receptor 1 | Protein Coding | 51 | GC03M078597 | 1.984625578 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROBO1 |
| COL20A1 | Collagen Type XX Alpha 1 Chain | Protein Coding | 44 | GC20P063293 | 1.983115435 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL20A1 |

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| PDCD6IP | Programmed Cell Death 6 Interacting Protein | Protein Coding | 50 | GC03P033798 | 1.98204422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD6IP |
| DCT | Dopachrome Tautomerase | Protein Coding | 52 | GC13M094436 | 1.978040814 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCT |
| MARCKS | Myristoylated Alanine Rich Protein Kinase C Substrate | Protein Coding | 46 | GC06P113857 | 1.976188779 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCKS |
| SMAD1 | SMAD Family Member 1 | Protein Coding | 51 | GC04P145481 | 1.973513365 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD1 |
| CD63 | CD63 Molecule | Protein Coding | 50 | GC12M055725 | 1.972302675 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD63 |
| TOP2B | DNA Topoisomerase II Beta | Protein Coding | 52 | GC03M025598 | 1.970924854 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP2B |
| GADD45A | Growth Arrest And DNA Damage Inducible Alpha | Protein Coding | 50 | GC01P067685 | 1.970365047 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GADD45A |
| HLA-DMA | Major Histocompatibility Complex, Class II, DM Alpha | Protein Coding | 46 | GC06M071795 | 1.966271639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DMA |
| TNFRSF8 | TNF Receptor Superfamily Member 8 | Protein Coding | 50 | GC01P012063 | 1.965282679 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF8 |
| PTPRJ | Protein Tyrosine Phosphatase Receptor Type J | Protein Coding | 55 | GC11P048002 | 1.964123964 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRJ |
| ADRA1A | Adrenoceptor Alpha 1A | Protein Coding | 53 | GC08M026747 | 1.963740349 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1A |
| FKBP4 | FKBP Prolyl Isomerase 4 | Protein Coding | 52 | GC12P002795 | 1.963716984 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP4 |
| POLR3K | RNA Polymerase III Subunit K | Protein Coding | 47 | GC16M000046 | 1.963641405 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLR3K |
| MYO5A | Myosin VA | Protein Coding | 51 | GC15M123722 | 1.962192774 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO5A |
| FRK | Fyn Related Src Family Tyrosine Kinase | Protein Coding | 51 | GC06M115931 | 1.962022543 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRK |

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| SLC6A6 | Solute Carrier Family 6 Member 6 | Protein Coding | 52 | GC03P014402 | 1.960782766 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A6 |
| SEMA3A | Semaphorin 3A | Protein Coding | 53 | GC07M083955 | 1.9588871 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3A |
| FZD4 | Frizzled Class Receptor 4 | Protein Coding | 56 | GC11M086945 | 1.957341671 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FZD4 |
| NAA10 | N-Alpha-Acetyltransferase 10, NatA Catalytic Subunit | Protein Coding | 52 | GC0XM153929 | 1.954634666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA10 |
| S100A7 | S100 Calcium Binding Protein A7 | Protein Coding | 46 | GC01M153457 | 1.948243737 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A7 |
| FCER2 | Fc Epsilon Receptor II | Protein Coding | 50 | GC19M007689 | 1.944807529 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCER2 |
| VASP | Vasodilator Stimulated Phosphoprotein | Protein Coding | 50 | GC19P073070 | 1.944025874 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VASP |
| TSG101 | Tumor Susceptibility 101 | Protein Coding | 49 | GC11M018468 | 1.943533421 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSG101 |
| S100A1 | S100 Calcium Binding Protein A1 | Protein Coding | 47 | GC01P153627 | 1.942153215 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A1 |
| LAT | Linker For Activation Of T Cells | Protein Coding | 53 | GC16P042656 | 1.938898325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAT |
| CCR1 | C-C Motif Chemokine Receptor 1 | Protein Coding | 52 | GC03M046218 | 1.938135386 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR1 |
| LYST | Lysosomal Trafficking Regulator | Protein Coding | 45 | GC01M235661 | 1.937011361 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYST |
| ALCAM | Activated Leukocyte Cell Adhesion Molecule | Protein Coding | 50 | GC03P105366 | 1.936097383 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALCAM |
| TJP1 | Tight Junction Protein 1 | Protein Coding | 51 | GC15M029699 | 1.935941458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP1 |
| EFNB2 | Ephrin B2 | Protein Coding | 50 | GC13M106489 | 1.931266308 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB2 |

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|---------|---|----------------|----|-------------|-------------|---|
| STAT2 | Signal Transducer And Activator Of Transcription 2 | Protein Coding | 55 | GC12M056341 | 1.929269314 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT2 |
| RPL19 | Ribosomal Protein L19 | Protein Coding | 48 | GC17P039200 | 1.925439119 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL19 |
| HTR1B | 5-Hydroxytryptamine Receptor 1B | Protein Coding | 50 | GC06M077488 | 1.925381422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1B |
| FER | FER Tyrosine Kinase | Protein Coding | 52 | GC05P108747 | 1.925205708 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FER |
| RAPGEF3 | Rap Guanine Nucleotide Exchange Factor 3 | Protein Coding | 51 | GC12M047736 | 1.919921637 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAPGEF3 |
| PATJ | PATJ Crumbs Cell Polarity Complex Component | Protein Coding | 43 | GC01P061743 | 1.919464111 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PATJ |
| PSMD4 | Proteasome 26S Subunit Ubiquitin Receptor, Non-ATPase 4 | Protein Coding | 50 | GC01P151378 | 1.917000532 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMD4 |
| NRXN1 | Neurexin 1 | Protein Coding | 55 | GC02M049918 | 1.916447639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRXN1 |
| RANBP9 | RAN Binding Protein 9 | Protein Coding | 48 | GC06M013621 | 1.916115046 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RANBP9 |
| CEACAM3 | CEA Cell Adhesion Molecule 3 | Protein Coding | 49 | GC19P041796 | 1.915868282 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM3 |
| MAP3K11 | Mitogen-Activated Protein Kinase Kinase Kinase 11 | Protein Coding | 53 | GC11M099713 | 1.914820433 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K11 |
| FGF8 | Fibroblast Growth Factor 8 | Protein Coding | 54 | GC10M101770 | 1.91269207 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF8 |
| LHX3 | LIM Homeobox 3 | Protein Coding | 47 | GC09M136196 | 1.912455797 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LHX3 |
| MAP3K14 | Mitogen-Activated Protein Kinase Kinase Kinase 14 | Protein Coding | 51 | GC17M045263 | 1.910337448 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K14 |
| MPHOSPH | M-Phase Phosphoprotein 8 | Protein Coding | 43 | GC13P019633 | 1.903998017 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPHOSPH8 |

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|---------|--|----------------|----|-------------|-------------|---|
| SOS2 | SOS Ras/Rho Guanine Nucleotide Exchange Factor 2 | Protein Coding | 51 | GC14M050117 | 1.903938532 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOS2 |
| NCAM1 | Neural Cell Adhesion Molecule 1 | Protein Coding | 55 | GC11P112961 | 1.903778315 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCAM1 |
| FPR1 | Formyl Peptide Receptor 1 | Protein Coding | 54 | GC19M051745 | 1.9031353 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FPR1 |
| CEACAM7 | CEA Cell Adhesion Molecule 7 | Protein Coding | 44 | GC19M041673 | 1.902526498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM7 |
| BCAR1 | BCAR1 Scaffold Protein, Cas Family Member | Protein Coding | 50 | GC16M075228 | 1.898793936 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCAR1 |
| MAP3K1 | Mitogen-Activated Protein Kinase Kinase Kinase 1 | Protein Coding | 56 | GC05P056815 | 1.898443699 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K1 |
| TRPC3 | Transient Receptor Potential Cation Channel Subfamily C Member 3 | Protein Coding | 54 | GC04M121879 | 1.893781662 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC3 |
| DDR2 | Discoidin Domain Receptor Tyrosine Kinase 2 | Protein Coding | 59 | GC01P162631 | 1.891518831 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDR2 |
| RALA | RAS Like Proto-Oncogene A | Protein Coding | 52 | GC07P039622 | 1.891065836 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RALA |
| CCR7 | C-C Motif Chemokine Receptor 7 | Protein Coding | 51 | GC17M051716 | 1.886298895 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR7 |
| KRT9 | Keratin 9 | Protein Coding | 48 | GC17M041565 | 1.88619864 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT9 |
| SSTR5 | Somatostatin Receptor 5 | Protein Coding | 49 | GC16P001072 | 1.884937763 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR5 |
| SEC23IP | SEC23 Interacting Protein | Protein Coding | 46 | GC10P119892 | 1.882997751 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEC23IP |
| CD163 | CD163 Molecule | Protein Coding | 51 | GC12M008027 | 1.878556132 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD163 |
| DRD5 | Dopamine Receptor D5 | Protein Coding | 53 | GC04P009783 | 1.877865791 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD5 |

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| UBE3C | Ubiquitin Protein Ligase E3C | Protein Coding | 46 | GC07P157138 | 1.877578497 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE3C |
| CARNS1 | Carnosine Synthase 1 | Protein Coding | 39 | GC11P067414 | 1.877417564 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARNS1 |
| ARF6 | ADP Ribosylation Factor 6 | Protein Coding | 49 | GC14P049895 | 1.875149727 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARF6 |
| KTN1 | Kinectin 1 | Protein Coding | 48 | GC14P055559 | 1.87413168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KTN1 |
| PRMT3 | Protein Arginine Methyltransferase 3 | Protein Coding | 47 | GC11P020409 | 1.873780608 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRMT3 |
| NUCB1 | Nucleobindin 1 | Protein Coding | 48 | GC19P048900 | 1.873780489 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUCB1 |
| CDH23 | Cadherin Related 23 | Protein Coding | 51 | GC10P071396 | 1.872978449 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH23 |
| FGF10 | Fibroblast Growth Factor 10 | Protein Coding | 53 | GC05M044340 | 1.872734308 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF10 |
| HGS | Hepatocyte Growth Factor-Regulated Tyrosine Kinase Substrate | Protein Coding | 50 | GC17P081683 | 1.870378494 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGS |
| ADRA1B | Adrenoceptor Alpha 1B | Protein Coding | 53 | GC05P159867 | 1.867448092 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1B |
| BLNK | B Cell Linker | Protein Coding | 53 | GC10M096259 | 1.864344835 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLNK |
| PTPN13 | Protein Tyrosine Phosphatase Non-Receptor Type 13 | Protein Coding | 51 | GC04P086594 | 1.858952284 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN13 |
| WASL | WASP Like Actin Nucleation Promoting Factor | Protein Coding | 48 | GC07M123681 | 1.858193636 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WASL |
| RPL23 | Ribosomal Protein L23 | Protein Coding | 47 | GC17M038847 | 1.85684371 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL23 |
| NEDD4 | NEDD4 E3 Ubiquitin Protein Ligase | Protein Coding | 54 | GC15M055826 | 1.856402278 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD4 |

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| GREM1 | Gremlin 1, DAN Family BMP Antagonist | Protein Coding | 50 | GC15P046226 | 1.855420828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GREM1 |
| CSN2 | Casein Beta | Protein Coding | 40 | GC04M069955 | 1.854342461 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN2 |
| CALB2 | Calbindin 2 | Protein Coding | 46 | GC16P071358 | 1.852124453 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB2 |
| GLRB | Glycine Receptor Beta | Protein Coding | 53 | GC04P157076 | 1.851535916 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRB |
| SULT6B1 | Sulfotransferase Family 6B Member 1 | Protein Coding | 40 | GC02M037167 | 1.847799659 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT6B1 |
| EDN3 | Endothelin 3 | Protein Coding | 51 | GC20P059300 | 1.847703934 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN3 |
| S100A4 | S100 Calcium Binding Protein A4 | Protein Coding | 52 | GC01M153543 | 1.846493006 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A4 |
| NOLC1 | Nucleolar And Coiled-Body Phosphoprotein 1 | Protein Coding | 47 | GC10P102152 | 1.845025539 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOLC1 |
| THY1 | Thy-1 Cell Surface Antigen | Protein Coding | 50 | GC11M119417 | 1.843530655 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THY1 |
| DLG3 | Discs Large MAGUK Scaffold Protein 3 | Protein Coding | 49 | GC0XP070444 | 1.843284726 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG3 |
| GRK6 | G Protein-Coupled Receptor Kinase 6 | Protein Coding | 53 | GC05P177403 | 1.840342522 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK6 |
| TNFAIP6 | TNF Alpha Induced Protein 6 | Protein Coding | 47 | GC02P151357 | 1.840254068 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFAIP6 |
| EREG | Epiregulin | Protein Coding | 50 | GC04P074366 | 1.837180853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EREG |
| PDGFA | Platelet Derived Growth Factor Subunit A | Protein Coding | 50 | GC07M000497 | 1.837180853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFA |
| ABCC11 | ATP Binding Cassette Subfamily C Member 11 | Protein Coding | 48 | GC16M048166 | 1.835193396 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC11 |

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| RPL37 | Ribosomal Protein L37 | Protein Coding | 45 | GC05M040825 | 1.834323168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL37 |
| PLCL1 | Phospholipase C Like 1 (Inactive) | Protein Coding | 46 | GC02P197804 | 1.834127903 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCL1 |
| AQP1 | Aquaporin 1 (Colton Blood Group) | Protein Coding | 53 | GC07P030911 | 1.833886862 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP1 |
| FLOT2 | Flotillin 2 | Protein Coding | 47 | GC17M051195 | 1.832614422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLOT2 |
| CREM | CAMP Responsive Element Modulator | Protein Coding | 48 | GC10P035126 | 1.831388235 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREM |
| NRP2 | Neuropilin 2 | Protein Coding | 52 | GC02P205681 | 1.830303192 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRP2 |
| BDKRB1 | Bradykinin Receptor B1 | Protein Coding | 48 | GC14P096302 | 1.830173969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB1 |
| DIABLO | Diablo IAP-Binding Mitochondrial Protein | Protein Coding | 53 | GC12M122497 | 1.829569101 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIABLO |
| OGDHL | Oxoglutarate Dehydrogenase L | Protein Coding | 47 | GC10M049734 | 1.827629805 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGDHL |
| ATP2C1 | ATPase Secretory Pathway Ca ²⁺ Transporting 1 | Protein Coding | 51 | GC03P130850 | 1.827577353 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2C1 |
| H1-2 | H1.2 Linker Histone, Cluster Member | Protein Coding | 46 | GC06M026056 | 1.826867104 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H1-2 |
| HRH2 | Histamine Receptor H2 | Protein Coding | 50 | GC05P175659 | 1.824629188 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH2 |
| PSME3 | Proteasome Activator Subunit 3 | Protein Coding | 47 | GC17P042824 | 1.823475361 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSME3 |
| PTPN12 | Protein Tyrosine Phosphatase Non-Receptor Type 12 | Protein Coding | 55 | GC07P077537 | 1.822618484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN12 |
| RPS6KA5 | Ribosomal Protein S6 Kinase A5 | Protein Coding | 52 | GC14M090847 | 1.822618484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA5 |

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| CAPN1 | Calpain 1 | Protein Coding | 57 | GC11P070846 | 1.822430849 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN1 |
| ARHGEF1 | Rho Guanine Nucleotide Exchange Factor 1 | Protein Coding | 53 | GC19P041883 | 1.820183396 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF1 |
| SLC6A11 | Solute Carrier Family 6 Member 11 | Protein Coding | 47 | GC03P013696 | 1.819394827 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A11 |
| MYOZ2 | Myozenin 2 | Protein Coding | 46 | GC04P119135 | 1.819327593 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOZ2 |
| HCAR3 | Hydroxycarboxylic Acid Receptor 3 | Protein Coding | 42 | GC12M122714 | 1.818952322 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCAR3 |
| NISCH | Nischarin | Protein Coding | 50 | GC03P052455 | 1.817929626 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NISCH |
| NRG4 | Neuregulin 4 | Protein Coding | 46 | GC15M075935 | 1.813503981 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG4 |
| CHRM1 | Cholinergic Receptor Muscarinic 1 | Protein Coding | 52 | GC11M099605 | 1.81216979 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM1 |
| PTPRA | Protein Tyrosine Phosphatase Receptor Type A | Protein Coding | 52 | GC20P002864 | 1.810213327 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRA |
| MAPK12 | Mitogen-Activated Protein Kinase 12 | Protein Coding | 54 | GC22M061616 | 1.809207439 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK12 |
| BMX | BMX Non-Receptor Tyrosine Kinase | Protein Coding | 51 | GC0XP015392 | 1.80903244 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMX |
| PTPN6 | Protein Tyrosine Phosphatase Non-Receptor Type 6 | Protein Coding | 56 | GC12P023562 | 1.804846287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN6 |
| PTPRS | Protein Tyrosine Phosphatase Receptor Type S | Protein Coding | 52 | GC19M006881 | 1.800232887 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRS |
| CDH5 | Cadherin 5 | Protein Coding | 52 | GC16P066366 | 1.79877305 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH5 |
| IL10RA | Interleukin 10 Receptor Subunit Alpha | Protein Coding | 53 | GC11P117987 | 1.796459913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10RA |

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| FES | FES Proto-Oncogene, Tyrosine Kinase | Protein Coding | 54 | GC15P090883 | 1.794123411 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FES |
| EPS15 | Epidermal Growth Factor Receptor Pathway Substrate 15 | Protein Coding | 51 | GC01M051354 | 1.792013168 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS15 |
| TPTE | Transmembrane Phosphatase With Tensin Homology | Protein Coding | 43 | GC21P010521 | 1.791667461 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPTE |
| MAP1B | Microtubule Associated Protein 1B | Protein Coding | 51 | GC05P072107 | 1.789745569 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP1B |
| DUSP2 | Dual Specificity Phosphatase 2 | Protein Coding | 46 | GC02M098753 | 1.78924489 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP2 |
| MCM7 | Minichromosome Maintenance Complex Component 7 | Protein Coding | 52 | GC07M100092 | 1.788851023 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCM7 |
| BBS9 | Bardet-Biedl Syndrome 9 | Protein Coding | 45 | GC07P033323 | 1.786626101 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BBS9 |
| LCP2 | Lymphocyte Cytosolic Protein 2 | Protein Coding | 50 | GC05M170246 | 1.783881903 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCP2 |
| MAP4K4 | Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4 | Protein Coding | 54 | GC02P101696 | 1.783666372 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K4 |
| MAGI3 | Membrane Associated Guanylate Kinase, WW And PDZ Domain Containing 3 | Protein Coding | 40 | GC01P113390 | 1.782776356 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAGI3 |
| RELN | Reelin | Protein Coding | 51 | GC07M103471 | 1.78237772 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELN |
| STAT4 | Signal Transducer And Activator Of Transcription 4 | Protein Coding | 53 | GC02M191029 | 1.777585745 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT4 |
| TTK | TTK Protein Kinase | Protein Coding | 55 | GC06P080003 | 1.777347088 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTK |
| PNOC | Prepronociceptin | Protein Coding | 44 | GC08P028316 | 1.774571419 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNOC |
| ARHGEF7 | Rho Guanine Nucleotide Exchange Factor 7 | Protein Coding | 49 | GC13P111114 | 1.77340126 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF7 |

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| PIP5KL1 | Phosphatidylinositol-4-Phosphate 5-Kinase Like 1 | Protein Coding | 41 | GC09M127920 | 1.773319483 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIP5KL1 |
| AP2M1 | Adaptor Related Protein Complex 2 Subunit Mu 1 | Protein Coding | 52 | GC03P184174 | 1.772878528 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP2M1 |
| SIGLEC7 | Sialic Acid Binding Ig Like Lectin 7 | Protein Coding | 48 | GC19P051142 | 1.770597219 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC7 |
| PTGFR | Prostaglandin F Receptor | Protein Coding | 52 | GC01P078303 | 1.767858982 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGFR |
| OPRK1 | Opioid Receptor Kappa 1 | Protein Coding | 52 | GC08M053227 | 1.767608881 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRK1 |
| NTF4 | Neurotrophin 4 | Protein Coding | 53 | GC19M070877 | 1.765598536 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF4 |
| CD82 | CD82 Molecule | Protein Coding | 50 | GC11P044586 | 1.765353203 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD82 |
| BYSL | Bystin Like | Protein Coding | 44 | GC06P092335 | 1.764038563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BYSL |
| LRPAP1 | LDL Receptor Related Protein Associated Protein 1 | Protein Coding | 50 | GC04M003508 | 1.763132095 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRPAP1 |
| DUSP4 | Dual Specificity Phosphatase 4 | Protein Coding | 48 | GC08M029334 | 1.76159811 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP4 |
| SHROOM3 | Shroom Family Member 3 | Protein Coding | 44 | GC04P076435 | 1.760527134 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHROOM3 |
| TUBA4A | Tubulin Alpha 4a | Protein Coding | 53 | GC02M219249 | 1.75995791 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBA4A |
| SSTR1 | Somatostatin Receptor 1 | Protein Coding | 50 | GC14P038207 | 1.759299755 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR1 |
| NES | Nestin | Protein Coding | 47 | GC01M156668 | 1.757391214 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NES |
| POLI | DNA Polymerase Iota | Protein Coding | 48 | GC18P054274 | 1.755850792 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLI |

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| DDX60L | DExD/H-Box 60 Like | Protein Coding | 38 | GC04M168356 | 1.755546331 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX60L |
| C5 | Complement C5 | Protein Coding | 53 | GC09M120933 | 1.753865361 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5 |
| IL18R1 | Interleukin 18 Receptor 1 | Protein Coding | 50 | GC02P102311 | 1.750156641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18R1 |
| MYOG | Myogenin | Protein Coding | 46 | GC01M203083 | 1.747856379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOG |
| SEMA7A | Semaphorin 7A (John Milton Hagen Blood Group) | Protein Coding | 51 | GC15M074409 | 1.747343063 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA7A |
| CD80 | CD80 Molecule | Protein Coding | 51 | GC03M119524 | 1.745079517 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD80 |
| DUSP6 | Dual Specificity Phosphatase 6 | Protein Coding | 55 | GC12M089347 | 1.744764328 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP6 |
| RPL26L1 | Ribosomal Protein L26 Like 1 | Protein Coding | 40 | GC05P172956 | 1.743719578 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL26L1 |
| NMUR1 | Neuromedin U Receptor 1 | Protein Coding | 48 | GC02M231986 | 1.743004799 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMUR1 |
| KAT6A | Lysine Acetyltransferase 6A | Protein Coding | 52 | GC08M041929 | 1.74228096 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT6A |
| SEMA3C | Semaphorin 3C | Protein Coding | 51 | GC07M080742 | 1.742024899 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3C |
| SIGLEC5 | Sialic Acid Binding Ig Like Lectin 5 | Protein Coding | 47 | GC19M071022 | 1.737704039 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC5 |
| H2BC12L | H2B Clustered Histone 12 Like | Protein Coding | 34 | GC21P043569 | 1.736407399 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2BC12L |
| GRIN3A | Glutamate Ionotropic Receptor NMDA Type Subunit 3A | Protein Coding | 46 | GC09M101569 | 1.736349583 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN3A |
| CORT | Cortistatin | Protein Coding | 41 | GC01P010529 | 1.734572053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CORT |

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| RGS4 | Regulator Of G Protein Signaling 4 | Protein Coding | 48 | GC01P163038 | 1.734306216 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS4 |
| HAPLN1 | Hyaluronan And Proteoglycan Link Protein 1 | Protein Coding | 48 | GC05M083637 | 1.732725978 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAPLN1 |
| SCG2 | Secretogranin II | Protein Coding | 46 | GC02M223596 | 1.731810331 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG2 |
| GIT1 | GIT ArfGAP 1 | Protein Coding | 49 | GC17M029573 | 1.728217602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIT1 |
| RAB9A | RAB9A, Member RAS Oncogene Family | Protein Coding | 45 | GC0XP013707 | 1.727880001 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB9A |
| TRIM27 | Tripartite Motif Containing 27 | Protein Coding | 48 | GC06M028903 | 1.726555586 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM27 |
| PGAM4 | Phosphoglycerate Mutase Family Member 4 | Protein Coding | 41 | GC0XM077967 | 1.725485802 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAM4 |
| IFNAR1 | Interferon Alpha And Beta Receptor Subunit 1 | Protein Coding | 55 | GC21P033324 | 1.725248218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNAR1 |
| HOXA10 | Homeobox A10 | Protein Coding | 47 | GC07M027673 | 1.723849893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA10 |
| MAP2K6 | Mitogen-Activated Protein Kinase Kinase 6 | Protein Coding | 53 | GC17P069414 | 1.720388412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K6 |
| PENK | Proenkephalin | Protein Coding | 45 | GC08M056436 | 1.717689514 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PENK |
| SNTA1 | Syntrophin Alpha 1 | Protein Coding | 52 | GC20M033407 | 1.717225552 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNTA1 |
| IRF8 | Interferon Regulatory Factor 8 | Protein Coding | 52 | GC16P085898 | 1.716549635 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF8 |
| PTPDC1 | Protein Tyrosine Phosphatase Domain Containing 1 | Protein Coding | 39 | GC09P094030 | 1.710317612 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPDC1 |
| ZDHHC13 | Zinc Finger DHHC-Type Palmitoyltransferase 13 | Protein Coding | 44 | GC11P019095 | 1.710026741 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC13 |

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|--------------|--|----------------|----|-------------|-------------|---|
| SSTR4 | Somatostatin Receptor 4 | Protein Coding | 47 | GC20P023035 | 1.70855999 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSTR4 |
| TLK2 | Tousled Like Kinase 2 | Protein Coding | 52 | GC17P062458 | 1.706749916 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLK2 |
| MPIG6B | Megakaryocyte And Platelet Inhibitory Receptor G6b | Protein Coding | 44 | GC06P094327 | 1.706351757 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPIG6B |
| LIFR | LIF Receptor Subunit Alpha | Protein Coding | 53 | GC05M038475 | 1.704889536 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIFR |
| ZDHHC2 | Zinc Finger DHHC-Type Palmitoyltransferase 2 | Protein Coding | 44 | GC08P017156 | 1.704699993 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC2 |
| ZFP36 | ZFP36 Ring Finger Protein | Protein Coding | 44 | GC19P039406 | 1.703535914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36 |
| IL32 | Interleukin 32 | Protein Coding | 45 | GC16P013549 | 1.702359438 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL32 |
| FPR2 | Formyl Peptide Receptor 2 | Protein Coding | 53 | GC19P051752 | 1.70159018 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FPR2 |
| SNCG | Synuclein Gamma | Protein Coding | 48 | GC10P094523 | 1.700464964 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNCG |
| LOC102724560 | Cystathionine Beta-Synthase Like | Protein Coding | 10 | GC21M006444 | 1.700024605 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC102724560 |
| DSG2 | Desmoglein 2 | Protein Coding | 52 | GC18P031498 | 1.697177649 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSG2 |
| PDLIM5 | PDZ And LIM Domain 5 | Protein Coding | 47 | GC04P094451 | 1.693854332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDLIM5 |
| OPRL1 | Opioid Related Nociceptin Receptor 1 | Protein Coding | 53 | GC20P064080 | 1.692744732 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRL1 |
| SLC7A10 | Solute Carrier Family 7 Member 10 | Protein Coding | 44 | GC19M033208 | 1.691041231 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A10 |
| EPHB2 | EPH Receptor B2 | Protein Coding | 59 | GC01P022710 | 1.688824892 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB2 |

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| PITX2 | Paired Like Homeodomain 2 | Protein Coding | 52 | GC04M110617 | 1.687981844 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITX2 |
| IL21 | Interleukin 21 | Protein Coding | 51 | GC04M122612 | 1.68727994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL21 |
| ZDHHC18 | Zinc Finger DHHC-Type Palmitoyltransferase 18 | Protein Coding | 42 | GC01P028385 | 1.686555862 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC18 |
| DUSP3 | Dual Specificity Phosphatase 3 | Protein Coding | 51 | GC17M043766 | 1.68346417 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP3 |
| VIPR1 | Vasoactive Intestinal Peptide Receptor 1 | Protein Coding | 52 | GC03P042490 | 1.677259088 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIPR1 |
| RBL2 | RB Transcriptional Corepressor Like 2 | Protein Coding | 52 | GC16P053433 | 1.67690587 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBL2 |
| OMD | Osteomodulin | Protein Coding | 46 | GC09M096534 | 1.674594641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OMD |
| EEA1 | Early Endosome Antigen 1 | Protein Coding | 48 | GC12M092770 | 1.672343969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEA1 |
| LYVE1 | Lymphatic Vessel Endothelial Hyaluronan Receptor 1 | Protein Coding | 49 | GC11M011131 | 1.659945846 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYVE1 |
| CD2 | CD2 Molecule | Protein Coding | 51 | GC01P116754 | 1.659570932 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD2 |
| GAB2 | GRB2 Associated Binding Protein 2 | Protein Coding | 50 | GC11M078215 | 1.656756639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAB2 |
| SRP19 | Signal Recognition Particle 19 | Protein Coding | 46 | GC05P112862 | 1.65417254 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRP19 |
| PTPRO | Protein Tyrosine Phosphatase Receptor Type O | Protein Coding | 54 | GC12P023827 | 1.647766829 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRO |
| LIPI | Lipase I | Protein Coding | 42 | GC21M014108 | 1.644866705 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPI |
| PTGIR | Prostaglandin I2 Receptor | Protein Coding | 54 | GC19M070781 | 1.644169569 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIR |

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| IL13RA1 | Interleukin 13 Receptor Subunit Alpha 1 | Protein Coding | 48 | GC0XP118727 | 1.643259287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL13RA1 |
| NRTN | Neurturin | Protein Coding | 47 | GC19P005805 | 1.643030405 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRTN |
| PTGDR2 | Prostaglandin D2 Receptor 2 | Protein Coding | 51 | GC11M060850 | 1.642745137 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGDR2 |
| TGOLN2 | Trans-Golgi Network Protein 2 | Protein Coding | 44 | GC02M085318 | 1.642578602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGOLN2 |
| EPHA7 | EPH Receptor A7 | Protein Coding | 54 | GC06M093240 | 1.64180851 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA7 |
| LTK | Leukocyte Receptor Tyrosine Kinase | Protein Coding | 49 | GC15M041503 | 1.64180851 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTK |
| CCNT1 | Cyclin T1 | Protein Coding | 47 | GC12M048688 | 1.640436649 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNT1 |
| GRM3 | Glutamate Metabotropic Receptor 3 | Protein Coding | 53 | GC07P086643 | 1.639108658 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM3 |
| ICA1 | Islet Cell Autoantigen 1 | Protein Coding | 47 | GC07M008428 | 1.638249993 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICA1 |
| OSMR | Oncostatin M Receptor | Protein Coding | 52 | GC05P038845 | 1.636943102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSMR |
| ICAM3 | Intercellular Adhesion Molecule 3 | Protein Coding | 50 | GC19M010421 | 1.635703325 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM3 |
| SFRP1 | Secreted Frizzled Related Protein 1 | Protein Coding | 51 | GC08M041262 | 1.635003924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFRP1 |
| KCNJ4 | Potassium Inwardly Rectifying Channel Subfamily J Member 4 | Protein Coding | 50 | GC22M038426 | 1.631995916 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ4 |
| LIMK2 | LIM Domain Kinase 2 | Protein Coding | 52 | GC22P031212 | 1.629135966 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIMK2 |
| HAND2 | Heart And Neural Crest Derivatives Expressed 2 | Protein Coding | 50 | GC04M173524 | 1.628247738 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAND2 |

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| CDC37 | Cell Division Cycle 37, HSP90 Cochaperone | Protein Coding | 50 | GC19M010391 | 1.62809515 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC37 |
| HOXA9 | Homeobox A9 | Protein Coding | 45 | GC07M027162 | 1.626486778 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA9 |
| CAPN2 | Calpain 2 | Protein Coding | 54 | GC01P223701 | 1.625161171 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN2 |
| BRD8 | Bromodomain Containing 8 | Protein Coding | 45 | GC05M138152 | 1.625022411 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRD8 |
| ASCL1 | Achaete-Scute Family BHLH Transcription Factor 1 | Protein Coding | 50 | GC12P102957 | 1.621473312 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASCL1 |
| EFNB1 | Ephrin B1 | Protein Coding | 52 | GC0XP068828 | 1.620697021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB1 |
| POU2AF1 | POU Class 2 Homeobox Associating Factor 1 | Protein Coding | 44 | GC11M111352 | 1.620057344 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU2AF1 |
| HMGN2 | High Mobility Group Nucleosomal Binding Domain 2 | Protein Coding | 46 | GC01P026473 | 1.617171049 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGN2 |
| LGALS13 | Galectin 13 | Protein Coding | 43 | GC19P039602 | 1.616792679 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS13 |
| SULF1 | Sulfatase 1 | Protein Coding | 49 | GC08P069466 | 1.616624832 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULF1 |
| FGF4 | Fibroblast Growth Factor 4 | Protein Coding | 50 | GC11M099886 | 1.614102602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF4 |
| AKAP1 | A-Kinase Anchoring Protein 1 | Protein Coding | 47 | GC17P057085 | 1.612334251 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP1 |
| RYK | Receptor Like Tyrosine Kinase | Protein Coding | 50 | GC03M134065 | 1.611094236 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYK |
| CCNB2 | Cyclin B2 | Protein Coding | 51 | GC15P059105 | 1.610750675 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNB2 |
| TPPP3 | Tubulin Polymerization Promoting Protein Family Member 3 | Protein Coding | 43 | GC16M067389 | 1.609044194 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPPP3 |

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| CASP14 | Caspase 14 | Protein Coding | 53 | GC19P015049 | 1.608549476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP14 |
| PTPRB | Protein Tyrosine Phosphatase Receptor Type B | Protein Coding | 52 | GC12M070516 | 1.608270049 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRB |
| KCND3 | Potassium Voltage-Gated Channel Subfamily D Member 3 | Protein Coding | 53 | GC01M111770 | 1.607928157 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCND3 |
| TOM1 | Target Of Myb1 Membrane Trafficking Protein | Protein Coding | 49 | GC22P035299 | 1.60710144 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOM1 |
| C2CD5 | C2 Calcium Dependent Domain Containing 5 | Protein Coding | 40 | GC12M022448 | 1.606956601 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C2CD5 |
| TAC3 | Tachykinin Precursor 3 | Protein Coding | 50 | GC12M057108 | 1.605289936 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAC3 |
| ERG | ETS Transcription Factor ERG | Protein Coding | 53 | GC21M038367 | 1.603666306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERG |
| EN2 | Engrailed Homeobox 2 | Protein Coding | 46 | GC07P155459 | 1.602025986 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EN2 |
| SAG | S-Antigen Visual Arrestin | Protein Coding | 51 | GC02P233400 | 1.600292444 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAG |
| KIR3DL1 | Killer Cell Immunoglobulin Like Receptor, Three Ig Domains And Long Cytoplasmic Tail 1 | Protein Coding | 46 | GC19P073503 | 1.599633932 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR3DL1 |
| CHRNA4 | Cholinergic Receptor Nicotinic Alpha 4 Subunit | Protein Coding | 56 | GC20M063343 | 1.597695589 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA4 |
| CCL26 | C-C Motif Chemokine Ligand 26 | Protein Coding | 44 | GC07M075769 | 1.596167326 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL26 |
| RNF41 | Ring Finger Protein 41 | Protein Coding | 46 | GC12M056202 | 1.593486309 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF41 |
| TLR5 | Toll Like Receptor 5 | Protein Coding | 53 | GC01M223109 | 1.591864109 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR5 |
| PI3 | Peptidase Inhibitor 3 | Protein Coding | 44 | GC20P045174 | 1.590837479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PI3 |

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| CD209 | CD209 Molecule | Protein Coding | 50 | GC19M007739 | 1.590370893 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD209 |
| MVP | Major Vault Protein | Protein Coding | 47 | GC16P042738 | 1.587863684 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MVP |
| REG1A | Regenerating Family Member 1 Alpha | Protein Coding | 46 | GC02P079120 | 1.587365627 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=REG1A |
| TDP1 | Tyrosyl-DNA Phosphodiesterase 1 | Protein Coding | 51 | GC14P089954 | 1.585007429 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDP1 |
| CHRNA1 | Cholinergic Receptor Nicotinic Alpha 1 Subunit | Protein Coding | 52 | GC02M174747 | 1.583951354 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA1 |
| ANP32A | Acidic Nuclear Phosphoprotein 32 Family Member A | Protein Coding | 50 | GC15M068778 | 1.581532955 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANP32A |
| GAP43 | Growth Associated Protein 43 | Protein Coding | 50 | GC03P115623 | 1.578776121 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAP43 |
| RBM14 | RNA Binding Motif Protein 14 | Protein Coding | 45 | GC11P070979 | 1.578552961 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBM14 |
| CSTA | Cystatin A | Protein Coding | 51 | GC03P122325 | 1.577850103 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSTA |
| LMTK3 | Lemur Tyrosine Kinase 3 | Protein Coding | 42 | GC19M048485 | 1.575712204 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMTK3 |
| SH3KBP1 | SH3 Domain Containing Kinase Binding Protein 1 | Protein Coding | 48 | GC0XM019552 | 1.574989557 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3KBP1 |
| SLIT3 | Slit Guidance Ligand 3 | Protein Coding | 48 | GC05M168661 | 1.573313236 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLIT3 |
| WAS | WASP Actin Nucleation Promoting Factor | Protein Coding | 55 | GC0XP048676 | 1.572755575 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WAS |
| FCGR2B | Fc Gamma Receptor IIb | Protein Coding | 56 | GC01P161823 | 1.570428848 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2B |
| PTPRU | Protein Tyrosine Phosphatase Receptor Type U | Protein Coding | 50 | GC01P029236 | 1.567531228 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRU |

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| ITSN1 | Intersectin 1 | Protein Coding | 48 | GC21P033642 | 1.564399242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITSN1 |
| ABI2 | Abl Interactor 2 | Protein Coding | 45 | GC02P203327 | 1.561905265 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABI2 |
| VAV1 | Vav Guanine Nucleotide Exchange Factor 1 | Protein Coding | 52 | GC19P006772 | 1.559613466 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV1 |
| BCL3 | BCL3 Transcription Coactivator | Protein Coding | 48 | GC19P044747 | 1.558552265 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL3 |
| STATH | Statherin | Protein Coding | 38 | GC04P069995 | 1.558440924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STATH |
| TOLLIP | Toll Interacting Protein | Protein Coding | 51 | GC11M001274 | 1.555968523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOLLIP |
| IL22RA2 | Interleukin 22 Receptor Subunit Alpha 2 | Protein Coding | 47 | GC06M137143 | 1.553938866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL22RA2 |
| THBS4 | Thrombospondin 4 | Protein Coding | 50 | GC05P079991 | 1.549686193 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS4 |
| TRPA1 | Transient Receptor Potential Cation Channel Subfamily A Member 1 | Protein Coding | 53 | GC08M072019 | 1.548540115 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPA1 |
| S100A10 | S100 Calcium Binding Protein A10 | Protein Coding | 50 | GC01M152817 | 1.548104286 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A10 |
| ABL2 | ABL Proto-Oncogene 2, Non-Receptor Tyrosine Kinase | Protein Coding | 52 | GC01M179143 | 1.548074484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABL2 |
| PIGF | Phosphatidylinositol Glycan Anchor Biosynthesis Class F | Protein Coding | 46 | GC02M046580 | 1.547854424 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGF |
| EGR2 | Early Growth Response 2 | Protein Coding | 51 | GC10M062811 | 1.542626143 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGR2 |
| ZKSCAN7 | Zinc Finger With KRAB And SCAN Domains 7 | Protein Coding | 39 | GC03P044556 | 1.539433479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZKSCAN7 |
| CHRND | Cholinergic Receptor Nicotinic Delta Subunit | Protein Coding | 50 | GC02P232525 | 1.539049506 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRND |

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| ELP3 | Elongator Acetyltransferase Complex Subunit 3 | Protein Coding | 48 | GC08P028089 | 1.538787603 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELP3 |
| FCER1G | Fc Epsilon Receptor Ig | Protein Coding | 48 | GC01P161215 | 1.535698891 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCER1G |
| SHB | SH2 Domain Containing Adaptor Protein B | Protein Coding | 46 | GC09M040554 | 1.535517454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHB |
| MSBP2 | Minisatellite Binding Protein 2 | Protein Coding | 5 | GC00U990214 | 1.533616304 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSBP2 |
| WNT11 | Wnt Family Member 11 | Protein Coding | 50 | GC11M076186 | 1.532100201 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT11 |
| TBXT | T-Box Transcription Factor T | Protein Coding | 50 | GC06M166158 | 1.531953096 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXT |
| MAP3K2 | Mitogen-Activated Protein Kinase Kinase Kinase 2 | Protein Coding | 52 | GC02M127298 | 1.531584501 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K2 |
| FGFRL1 | Fibroblast Growth Factor Receptor Like 1 | Protein Coding | 50 | GC04P001370 | 1.53033185 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFRL1 |
| CLEC12A | C-Type Lectin Domain Family 12 Member A | Protein Coding | 46 | GC12P009951 | 1.528077364 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC12A |
| PTPN9 | Protein Tyrosine Phosphatase Non-Receptor Type 9 | Protein Coding | 46 | GC15M075463 | 1.525749922 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN9 |
| BAIAP2 | BAR/IMD Domain Containing Adaptor Protein 2 | Protein Coding | 48 | GC17P081035 | 1.525718451 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAIAP2 |
| CA11 | Carbonic Anhydrase 11 | Protein Coding | 44 | GC19M070852 | 1.523382664 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA11 |
| JPH4 | Junctophilin 4 | Protein Coding | 41 | GC14M023568 | 1.521375775 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JPH4 |
| GCAT | Glycine C-Acetyltransferase | Protein Coding | 47 | GC22P037807 | 1.521194458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCAT |
| PMP22 | Peripheral Myelin Protein 22 | Protein Coding | 50 | GC17M015229 | 1.517963052 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMP22 |

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| MUC4 | Mucin 4, Cell Surface Associated | Protein Coding | 47 | GC03M195746 | 1.517698765 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC4 |
| GAB1 | GRB2 Associated Binding Protein 1 | Protein Coding | 51 | GC04P143336 | 1.514995813 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAB1 |
| FRS2 | Fibroblast Growth Factor Receptor Substrate 2 | Protein Coding | 46 | GC12P069471 | 1.51312685 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRS2 |
| SV2A | Synaptic Vesicle Glycoprotein 2A | Protein Coding | 50 | GC01M149903 | 1.510024309 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SV2A |
| MATK | Megakaryocyte-Associated Tyrosine Kinase | Protein Coding | 51 | GC19M003777 | 1.509203672 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MATK |
| ABI1 | Abl Interactor 1 | Protein Coding | 50 | GC10M026746 | 1.507948875 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABI1 |
| SCYL1 | SCY1 Like Pseudokinase 1 | Protein Coding | 49 | GC11P065525 | 1.507302999 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCYL1 |
| CD22 | CD22 Molecule | Protein Coding | 53 | GC19P035319 | 1.507148862 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD22 |
| SNX9 | Sorting Nexin 9 | Protein Coding | 47 | GC06P157702 | 1.507115602 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX9 |
| ZYX | Zyxin | Protein Coding | 52 | GC07P143381 | 1.506281376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZYX |
| DUSP13 | Dual Specificity Phosphatase 13 | Protein Coding | 45 | GC10M075094 | 1.505273819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP13 |
| PDPN | Podoplanin | Protein Coding | 48 | GC01P013583 | 1.504307032 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDPN |
| FKBP5 | FKBP Prolyl Isomerase 5 | Protein Coding | 56 | GC06M071862 | 1.503385782 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP5 |
| HECTD2 | HECT Domain E3 Ubiquitin Protein Ligase 2 | Protein Coding | 42 | GC10P091409 | 1.502227306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HECTD2 |
| SPN | Sialophorin | Protein Coding | 47 | GC16P029662 | 1.501608849 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPN |

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|---------|--|----------------|----|-------------|-------------|---|
| TNR | Tenascin R | Protein Coding | 50 | GC01M175291 | 1.499696016 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNR |
| KTI12 | KTI12 Chromatin Associated Homolog | Protein Coding | 36 | GC01M052032 | 1.497702956 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KTI12 |
| MED30 | Mediator Complex Subunit 30 | Protein Coding | 43 | GC08P117521 | 1.497054815 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED30 |
| RNASE1 | Ribonuclease A Family Member 1, Pancreatic | Protein Coding | 48 | GC14M020801 | 1.49683392 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE1 |
| P2RX3 | Purinergic Receptor P2X 3 | Protein Coding | 50 | GC11P057356 | 1.494965792 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX3 |
| FYB1 | FYN Binding Protein 1 | Protein Coding | 50 | GC05M039105 | 1.491333246 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FYB1 |
| TGFB111 | Transforming Growth Factor Beta 1 Induced Transcript 1 | Protein Coding | 48 | GC16P042867 | 1.490437984 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB111 |
| ACKR1 | Atypical Chemokine Receptor 1 (Duffy Blood Group) | Protein Coding | 48 | GC01P159203 | 1.488973379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACKR1 |
| PTK7 | Protein Tyrosine Kinase 7 (Inactive) | Protein Coding | 52 | GC06P043076 | 1.488434076 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK7 |
| CHRNA2 | Cholinergic Receptor Nicotinic Beta 2 Subunit | Protein Coding | 53 | GC01P154568 | 1.48781085 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA2 |
| CTSW | Cathepsin W | Protein Coding | 43 | GC11P065879 | 1.486487627 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSW |
| CCR4 | C-C Motif Chemokine Receptor 4 | Protein Coding | 51 | GC03P032951 | 1.486412525 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR4 |
| TRIP6 | Thyroid Hormone Receptor Interactor 6 | Protein Coding | 46 | GC07P100867 | 1.486283898 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIP6 |
| MPP1 | MAGUK P55 Scaffold Protein 1 | Protein Coding | 46 | GC0XM154779 | 1.485907793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPP1 |
| GLRA1 | Glycine Receptor Alpha 1 | Protein Coding | 53 | GC05M151822 | 1.483913183 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA1 |

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|---------|---|----------------|----|-------------|-------------|---|
| EIF4H | Eukaryotic Translation Initiation Factor 4H | Protein Coding | 48 | GC07P074174 | 1.483606577 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4H |
| HDAC8 | Histone Deacetylase 8 | Protein Coding | 55 | GC0XM072329 | 1.483047009 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC8 |
| MAP4K2 | Mitogen-Activated Protein Kinase Kinase Kinase Kinase 2 | Protein Coding | 53 | GC11M099661 | 1.471613169 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K2 |
| MRPL28 | Mitochondrial Ribosomal Protein L28 | Protein Coding | 43 | GC16M000366 | 1.47159481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRPL28 |
| AQP5 | Aquaporin 5 | Protein Coding | 53 | GC12P049961 | 1.471539617 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP5 |
| PPP2R3A | Protein Phosphatase 2 Regulatory Subunit B"Alpha | Protein Coding | 43 | GC03P135965 | 1.46496439 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP2R3A |
| TRIM22 | Tripartite Motif Containing 22 | Protein Coding | 46 | GC11P005689 | 1.461960793 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM22 |
| SIT1 | Signaling Threshold Regulating Transmembrane Adaptor 1 | Protein Coding | 43 | GC09M035640 | 1.460095882 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIT1 |
| PDIA2 | Protein Disulfide Isomerase Family A Member 2 | Protein Coding | 48 | GC16P013436 | 1.459900379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA2 |
| ETV1 | ETS Variant Transcription Factor 1 | Protein Coding | 51 | GC07M013891 | 1.45987165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV1 |
| VEGFD | Vascular Endothelial Growth Factor D | Protein Coding | 47 | GC0XM015345 | 1.458869696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFD |
| LRIG1 | Leucine Rich Repeats And Immunoglobulin Like Domains 1 | Protein Coding | 49 | GC03M066379 | 1.458433747 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRIG1 |
| ACTR3 | Actin Related Protein 3 | Protein Coding | 47 | GC02P113889 | 1.458372474 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTR3 |
| PTPRK | Protein Tyrosine Phosphatase Receptor Type K | Protein Coding | 51 | GC06M127949 | 1.45528698 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRK |
| DCTN2 | Dynactin Subunit 2 | Protein Coding | 47 | GC12M057771 | 1.454296112 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCTN2 |

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| TDGF1 | Teratocarcinoma-Derived Growth Factor 1 | Protein Coding | 49 | GC03P047633 | 1.454260468 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDGF1 |
| TEC | Tec Protein Tyrosine Kinase | Protein Coding | 52 | GC04M048177 | 1.453444481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEC |
| EIF3B | Eukaryotic Translation Initiation Factor 3 Subunit B | Protein Coding | 45 | GC07P002354 | 1.452422142 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF3B |
| NRGN | Neurogranin | Protein Coding | 44 | GC11P124739 | 1.450027466 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRGN |
| FIP1L1 | Factor Interacting With PAPOLA And CPSF1 | Protein Coding | 47 | GC04P053435 | 1.449950576 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FIP1L1 |
| EFNA3 | Ephrin A3 | Protein Coding | 51 | GC01P155078 | 1.446974158 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA3 |
| GLI2 | GLI Family Zinc Finger 2 | Protein Coding | 56 | GC02P120735 | 1.444097519 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLI2 |
| CIT | Citron Rho-Interacting Serine/Threonine Kinase | Protein Coding | 54 | GC12M119687 | 1.443084955 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIT |
| KIFAP3 | Kinesin Associated Protein 3 | Protein Coding | 46 | GC01M169921 | 1.442029834 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIFAP3 |
| GJB2 | Gap Junction Protein Beta 2 | Protein Coding | 52 | GC13M020187 | 1.441787243 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB2 |
| KAT7 | Lysine Acetyltransferase 7 | Protein Coding | 49 | GC17P049788 | 1.440423012 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT7 |
| DOK1 | Docking Protein 1 | Protein Coding | 50 | GC02P074549 | 1.440416574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOK1 |
| MIR26A2 | MicroRNA 26a-2 | RNA Gene | 22 | GC12M057824 | 1.43974936 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR26A2 |
| RDX | Radixin | Protein Coding | 53 | GC11M109864 | 1.43893826 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RDX |
| CLUH | Clustered Mitochondria Homolog | Protein Coding | 43 | GC17M002689 | 1.43893826 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLUH |

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| PTPRG | Protein Tyrosine Phosphatase Receptor Type G | Protein Coding | 51 | GC03P061561 | 1.437517405 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRG |
| TRMT6 | TRNA Methyltransferase 6 Non-Catalytic Subunit | Protein Coding | 40 | GC20M005937 | 1.436141014 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRMT6 |
| FOSB | FosB Proto-Oncogene, AP-1 Transcription Factor Subunit | Protein Coding | 49 | GC19P045467 | 1.435516 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOSB |
| EFNA2 | Ephrin A2 | Protein Coding | 48 | GC19P003719 | 1.432334781 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA2 |
| HEMK1 | HemK Methyltransferase Family Member 1 | Protein Coding | 42 | GC03P050569 | 1.430846691 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEMK1 |
| CLCF1 | Cardiotrophin Like Cytokine Factor 1 | Protein Coding | 49 | GC11M067364 | 1.427292824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCF1 |
| CEBPZ | CCAAT Enhancer Binding Protein Zeta | Protein Coding | 46 | GC02M037201 | 1.425809264 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPZ |
| CRIP1 | Cysteine Rich Protein 1 | Protein Coding | 43 | GC14P105486 | 1.425279856 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRIP1 |
| ICAM2 | Intercellular Adhesion Molecule 2 | Protein Coding | 51 | GC17M064002 | 1.424790382 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM2 |
| PTK6 | Protein Tyrosine Kinase 6 | Protein Coding | 54 | GC20M063528 | 1.424619913 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK6 |
| RGS19 | Regulator Of G Protein Signaling 19 | Protein Coding | 48 | GC20M064073 | 1.423856258 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS19 |
| CALD1 | Caldesmon 1 | Protein Coding | 50 | GC07P134744 | 1.423612356 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALD1 |
| CTRB1 | Chymotrypsinogen B1 | Protein Coding | 44 | GC16P075218 | 1.420039415 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTRB1 |
| SIRPA | Signal Regulatory Protein Alpha | Protein Coding | 52 | GC20P001894 | 1.419333458 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRPA |
| NDN | Necdin, MAGE Family Member | Protein Coding | 48 | GC15M024541 | 1.415067673 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDN |

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| UBE2E2 | Ubiquitin Conjugating Enzyme E2 E2 | Protein Coding | 46 | GC03P023221 | 1.414947867 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2E2 |
| CDY1 | Chromodomain Y-Linked 1 | Protein Coding | 35 | GC0YP026181 | 1.41431427 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDY1 |
| HECA | Hdc Homolog, Cell Cycle Regulator | Protein Coding | 39 | GC06P139135 | 1.412382364 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HECA |
| S1PR3 | Sphingosine-1-Phosphate Receptor 3 | Protein Coding | 52 | GC09P089518 | 1.411020994 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR3 |
| ID1 | Inhibitor Of DNA Binding 1 | Protein Coding | 47 | GC20P031605 | 1.410467505 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ID1 |
| SLC38A5 | Solute Carrier Family 38 Member 5 | Protein Coding | 44 | GC0XM048458 | 1.409354568 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC38A5 |
| CCDC6 | Coiled-Coil Domain Containing 6 | Protein Coding | 47 | GC10M059788 | 1.406749368 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC6 |
| TIRAP | TIR Domain Containing Adaptor Protein | Protein Coding | 50 | GC11P126284 | 1.405854225 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIRAP |
| ADAD1 | Adenosine Deaminase Domain Containing 1 | Protein Coding | 41 | GC04P122378 | 1.405854225 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAD1 |
| GLYATL2 | Glycine-N-Acyltransferase Like 2 | Protein Coding | 38 | GC11M099448 | 1.405657053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLYATL2 |
| GOLGA5 | Golgin A5 | Protein Coding | 44 | GC14P092794 | 1.404361129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOLGA5 |
| CXCL2 | C-X-C Motif Chemokine Ligand 2 | Protein Coding | 46 | GC04M074097 | 1.401093721 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL2 |
| INSRR | Insulin Receptor Related Receptor | Protein Coding | 50 | GC01M156840 | 1.400798559 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSRR |
| UGT2A3 | UDP Glucuronosyltransferase Family 2 Member A3 | Protein Coding | 44 | GC04M068928 | 1.396822453 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT2A3 |
| GJB1 | Gap Junction Protein Beta 1 | Protein Coding | 53 | GC0XP071212 | 1.396408558 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB1 |

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| AZU1 | Azurocidin 1 | Protein Coding | 46 | GC19P000825 | 1.392551899 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AZU1 |
| LILRB2 | Leukocyte Immunoglobulin Like Receptor B2 | Protein Coding | 46 | GC19M071132 | 1.392198324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB2 |
| PHOX2A | Paired Like Homeobox 2A | Protein Coding | 48 | GC11M072239 | 1.391584873 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHOX2A |
| ADARB1 | Adenosine Deaminase RNA Specific B1 | Protein Coding | 51 | GC21P045073 | 1.391404986 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADARB1 |
| CD160 | CD160 Molecule | Protein Coding | 48 | GC01P145719 | 1.386499882 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD160 |
| CD226 | CD226 Molecule | Protein Coding | 48 | GC18M069831 | 1.386499882 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD226 |
| FLT3LG | Fms Related Receptor Tyrosine Kinase 3 Ligand | Protein Coding | 46 | GC19P073231 | 1.38465929 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT3LG |
| SNX13 | Sorting Nexin 13 | Protein Coding | 43 | GC07M017798 | 1.38465929 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX13 |
| PTPRH | Protein Tyrosine Phosphatase Receptor Type H | Protein Coding | 46 | GC19M055181 | 1.382741332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRH |
| CLDN4 | Claudin 4 | Protein Coding | 46 | GC07P073799 | 1.380390525 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLDN4 |
| GET1 | Guided Entry Of Tail-Anchored Proteins Factor 1 | Protein Coding | 41 | GC21P039377 | 1.379169941 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GET1 |
| MFAP2 | Microfibril Associated Protein 2 | Protein Coding | 47 | GC01M016974 | 1.378049135 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFAP2 |
| CASQ2 | Calsequestrin 2 | Protein Coding | 51 | GC01M115700 | 1.377944827 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASQ2 |
| ANXA4 | Annexin A4 | Protein Coding | 48 | GC02P069644 | 1.377457976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA4 |
| TMPRSS2 | Transmembrane Serine Protease 2 | Protein Coding | 55 | GC21M041464 | 1.37644577 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPRSS2 |

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| MYBL2 | MYB Proto-Oncogene Like 2 | Protein Coding | 49 | GC20P043667 | 1.375777125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYBL2 |
| ERC1 | ELKS/RAB6-Interacting/CAST Family Member 1 | Protein Coding | 48 | GC12P000972 | 1.375777125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERC1 |
| RASA2 | RAS P21 Protein Activator 2 | Protein Coding | 46 | GC03P141487 | 1.37325263 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA2 |
| CD244 | CD244 Molecule | Protein Coding | 50 | GC01M160830 | 1.372381926 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD244 |
| GTF2B | General Transcription Factor IIB | Protein Coding | 47 | GC01M088853 | 1.372071028 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF2B |
| GFRA1 | GDNF Family Receptor Alpha 1 | Protein Coding | 53 | GC10M116056 | 1.371281862 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA1 |
| BAG1 | BAG Cochaperone 1 | Protein Coding | 47 | GC09M033245 | 1.370138407 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAG1 |
| CDC25B | Cell Division Cycle 25B | Protein Coding | 52 | GC20P004512 | 1.369985104 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC25B |
| DEFB4A | Defensin Beta 4A | Protein Coding | 42 | GC08P007900 | 1.367897034 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFB4A |
| SPAG9 | Sperm Associated Antigen 9 | Protein Coding | 47 | GC17M050962 | 1.366934896 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPAG9 |
| ITGB5 | Integrin Subunit Beta 5 | Protein Coding | 53 | GC03M124761 | 1.364701748 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB5 |
| EPS15L1 | Epidermal Growth Factor Receptor Pathway Substrate 15 Like 1 | Protein Coding | 46 | GC19M016333 | 1.364116907 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS15L1 |
| CTNNA1 | Catenin Alpha 1 | Protein Coding | 52 | GC05P138613 | 1.36270237 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNA1 |
| TAGLN | Transgelin | Protein Coding | 50 | GC11P117199 | 1.360505223 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAGLN |
| ARHGDIB | Rho GDP Dissociation Inhibitor Beta | Protein Coding | 48 | GC12M014942 | 1.357345819 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGDIB |

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| MSMB | Microseminoprotein Beta | Protein Coding | 47 | GC10M046033 | 1.356166363 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSMB |
| PTN | Pleiotrophin | Protein Coding | 47 | GC07M137227 | 1.355832815 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTN |
| MEIS1 | Meis Homeobox 1 | Protein Coding | 48 | GC02P066433 | 1.35497427 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEIS1 |
| EPHA1 | EPH Receptor A1 | Protein Coding | 54 | GC07M143390 | 1.35342288 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA1 |
| YES1 | YES Proto-Oncogene 1, Src Family Tyrosine Kinase | Protein Coding | 54 | GC18M000721 | 1.35342288 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=YES1 |
| LAIR1 | Leukocyte Associated Immunoglobulin Like Receptor 1 | Protein Coding | 48 | GC19M054351 | 1.353043079 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAIR1 |
| TFPT | TCF3 Fusion Partner | Protein Coding | 42 | GC19M054107 | 1.352261066 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPT |
| SH2B2 | SH2B Adaptor Protein 2 | Protein Coding | 44 | GC07P102286 | 1.35112071 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B2 |
| GRIN2C | Glutamate Ionotropic Receptor NMDA Type Subunit 2C | Protein Coding | 52 | GC17M074842 | 1.350762725 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2C |
| P2RY1 | Purinergic Receptor P2Y1 | Protein Coding | 53 | GC03P152835 | 1.347520828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY1 |
| IL3RA | Interleukin 3 Receptor Subunit Alpha | Protein Coding | 51 | GC0XP001336 | 1.346916914 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3RA |
| IL1RAP | Interleukin 1 Receptor Accessory Protein | Protein Coding | 53 | GC03P190514 | 1.346740007 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RAP |
| EFNA1 | Ephrin A1 | Protein Coding | 51 | GC01P155127 | 1.343958974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA1 |
| GLI1 | GLI Family Zinc Finger 1 | Protein Coding | 56 | GC12P057616 | 1.343919992 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLI1 |
| RHOD | Ras Homolog Family Member D | Protein Coding | 43 | GC11P071007 | 1.342387915 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOD |

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|---------|---|----------------|----|-------------|-------------|---|
| PTPRM | Protein Tyrosine Phosphatase Receptor Type M | Protein Coding | 51 | GC18P007557 | 1.341762543 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRM |
| ZDHHC20 | Zinc Finger DHHC-Type Palmitoyltransferase 20 | Protein Coding | 42 | GC13M021570 | 1.341608047 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC20 |
| CD72 | CD72 Molecule | Protein Coding | 46 | GC09M035610 | 1.341193438 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD72 |
| IRF2 | Interferon Regulatory Factor 2 | Protein Coding | 49 | GC04M184387 | 1.339345694 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF2 |
| ETF1 | Eukaryotic Translation Termination Factor 1 | Protein Coding | 49 | GC05M138506 | 1.33785367 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETF1 |
| CD3G | CD3 Gamma Subunit Of T-Cell Receptor Complex | Protein Coding | 54 | GC11P118344 | 1.336899042 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD3G |
| CACNG2 | Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 2 | Protein Coding | 51 | GC22M061447 | 1.336666226 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG2 |
| CASP6 | Caspase 6 | Protein Coding | 55 | GC04M109688 | 1.335477829 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP6 |
| DST | Dystonin | Protein Coding | 49 | GC06M056457 | 1.333791614 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DST |
| SIGLEC1 | Sialic Acid Binding Ig Like Lectin 1 | Protein Coding | 47 | GC20M003686 | 1.33364892 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC1 |
| SPIB | Spi-B Transcription Factor | Protein Coding | 46 | GC19P050418 | 1.333257198 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPIB |
| CBLB | Cbl Proto-Oncogene B | Protein Coding | 52 | GC03M105655 | 1.332267404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLB |
| CBLC | Cbl Proto-Oncogene C | Protein Coding | 44 | GC19P044777 | 1.332267404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBLC |
| ISG20 | Interferon Stimulated Exonuclease Gene 20 | Protein Coding | 46 | GC15P088635 | 1.330898881 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ISG20 |
| TGFBR3 | Transforming Growth Factor Beta Receptor 3 | Protein Coding | 53 | GC01M091680 | 1.329393387 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR3 |

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|---------|--|----------------|----|-------------|-------------|---|
| PTPRE | Protein Tyrosine Phosphatase Receptor Type E | Protein Coding | 49 | GC10P127907 | 1.328865051 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRE |
| HMG1 | High Mobility Group Nucleosome Binding Domain 1 | Protein Coding | 47 | GC21M039342 | 1.328797698 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMG1 |
| LPAR2 | Lysophosphatidic Acid Receptor 2 | Protein Coding | 52 | GC19M019624 | 1.32547009 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR2 |
| TM9SF2 | Transmembrane 9 Superfamily Member 2 | Protein Coding | 42 | GC13P099446 | 1.323809385 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TM9SF2 |
| CCL8 | C-C Motif Chemokine Ligand 8 | Protein Coding | 46 | GC17P034319 | 1.31999135 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL8 |
| NPSR1 | Neuropeptide S Receptor 1 | Protein Coding | 47 | GC07P034664 | 1.319486618 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPSR1 |
| AGFG1 | ArfGAP With FG Repeats 1 | Protein Coding | 47 | GC02P227473 | 1.318310976 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGFG1 |
| RECQL | RecQ Like Helicase | Protein Coding | 48 | GC12M021468 | 1.316822648 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RECQL |
| GAK | Cyclin G Associated Kinase | Protein Coding | 51 | GC04M000849 | 1.314225674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAK |
| MAP3K4 | Mitogen-Activated Protein Kinase Kinase Kinase 4 | Protein Coding | 50 | GC06P160991 | 1.314225674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K4 |
| DUSP5 | Dual Specificity Phosphatase 5 | Protein Coding | 48 | GC10P110497 | 1.314225674 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP5 |
| FSCN1 | Fascin Actin-Bundling Protein 1 | Protein Coding | 51 | GC07P005592 | 1.31301713 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSCN1 |
| PAX3 | Paired Box 3 | Protein Coding | 52 | GC02M222199 | 1.312791586 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX3 |
| STYX | Serine/Threonine/Tyrosine Interacting Protein | Protein Coding | 41 | GC14P052730 | 1.310669065 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STYX |
| GNPNAT1 | Glucosamine-Phosphate N-Acetyltransferase 1 | Protein Coding | 46 | GC14M052775 | 1.30973053 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNPNAT1 |

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| HOXA1 | Homeobox A1 | Protein Coding | 48 | GC07M027092 | 1.308444142 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA1 |
| ZP3 | Zona Pellucida Glycoprotein 3 | Protein Coding | 50 | GC07P076837 | 1.305477381 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZP3 |
| PAK3 | P21 (RAC1) Activated Kinase 3 | Protein Coding | 57 | GC0XP110944 | 1.301856756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK3 |
| EFNA4 | Ephrin A4 | Protein Coding | 50 | GC01P155063 | 1.301198006 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA4 |
| CD84 | CD84 Molecule | Protein Coding | 49 | GC01M160541 | 1.301198006 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD84 |
| CTNND2 | Catenin Delta 2 | Protein Coding | 49 | GC05M010971 | 1.297608376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNND2 |
| CYTH1 | Cytohesin 1 | Protein Coding | 48 | GC17M078674 | 1.297608376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYTH1 |
| TESK1 | Testis Associated Actin Remodelling Kinase 1 | Protein Coding | 48 | GC09P035605 | 1.296860695 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TESK1 |
| NECTIN1 | Nectin Cell Adhesion Molecule 1 | Protein Coding | 53 | GC11M119624 | 1.296584606 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NECTIN1 |
| WASF2 | WASP Family Member 2 | Protein Coding | 50 | GC01M027404 | 1.296584606 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WASF2 |
| NCOA4 | Nuclear Receptor Coactivator 4 | Protein Coding | 46 | GC10M046005 | 1.295899391 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOA4 |
| TRIP10 | Thyroid Hormone Receptor Interactor 10 | Protein Coding | 47 | GC19P006737 | 1.292088509 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIP10 |
| PRSS3 | Serine Protease 3 | Protein Coding | 50 | GC09P033750 | 1.290347695 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRSS3 |
| GRIN2D | Glutamate Ionotropic Receptor NMDA Type Subunit 2D | Protein Coding | 55 | GC19P073182 | 1.288183808 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2D |
| KLRD1 | Killer Cell Lectin Like Receptor D1 | Protein Coding | 48 | GC12P010226 | 1.287742376 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRD1 |

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| MAP4K1 | Mitogen-Activated Protein Kinase Kinase Kinase Kinase 1 | Protein Coding | 50 | GC19M038587 | 1.286914349 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K1 |
| KIF5A | Kinesin Family Member 5A | Protein Coding | 51 | GC12P057555 | 1.28510344 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5A |
| GYPC | Glycophorin C (Gerbich Blood Group) | Protein Coding | 50 | GC02P126655 | 1.281240463 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPC |
| SORBS2 | Sorbin And SH3 Domain Containing 2 | Protein Coding | 47 | GC04M185585 | 1.275793552 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORBS2 |
| EFS | Embryonal Fyn-Associated Substrate | Protein Coding | 41 | GC14M023356 | 1.274370074 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFS |
| PTPRT | Protein Tyrosine Phosphatase Receptor Type T | Protein Coding | 51 | GC20M042072 | 1.274230242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRT |
| MAP3K13 | Mitogen-Activated Protein Kinase Kinase Kinase 13 | Protein Coding | 48 | GC03P185282 | 1.274230242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K13 |
| ABCC10 | ATP Binding Cassette Subfamily C Member 10 | Protein Coding | 45 | GC06P043427 | 1.270961523 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC10 |
| SH2D4B | SH2 Domain Containing 4B | Protein Coding | 38 | GC10P094472 | 1.270071507 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D4B |
| PLCXD3 | Phosphatidylinositol Specific Phospholipase C X Domain Containing 3 | Protein Coding | 43 | GC05M041306 | 1.269739866 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCXD3 |
| GMNN | Geminin DNA Replication Inhibitor | Protein Coding | 51 | GC06P024779 | 1.268566847 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GMNN |
| NFE2 | Nuclear Factor, Erythroid 2 | Protein Coding | 46 | GC12M054292 | 1.266424775 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2 |
| SLC15A4 | Solute Carrier Family 15 Member 4 | Protein Coding | 44 | GC12M128793 | 1.263706923 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A4 |
| RPL10L | Ribosomal Protein L10 Like | Protein Coding | 42 | GC14M046651 | 1.262371421 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL10L |
| GRM6 | Glutamate Metabotropic Receptor 6 | Protein Coding | 53 | GC05M178978 | 1.260549188 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM6 |

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|---------|---|----------------|----|-------------|-------------|---|
| DOCK1 | Dedicator Of Cytokinesis 1 | Protein Coding | 50 | GC10P126905 | 1.260548592 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOCK1 |
| GRIP2 | Glutamate Receptor Interacting Protein 2 | Protein Coding | 42 | GC03M021835 | 1.258551359 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIP2 |
| NRBF2 | Nuclear Receptor Binding Factor 2 | Protein Coding | 43 | GC10P063133 | 1.257070303 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRBF2 |
| ADD2 | Adducin 2 | Protein Coding | 47 | GC02M070626 | 1.252891302 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADD2 |
| CNTNAP1 | Contactin Associated Protein 1 | Protein Coding | 50 | GC17P042682 | 1.252706528 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTNAP1 |
| MDK | Midkine | Protein Coding | 50 | GC11P046380 | 1.25058341 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDK |
| ZBTB11 | Zinc Finger And BTB Domain Containing 11 | Protein Coding | 42 | GC03M101648 | 1.248044372 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB11 |
| CNTNAP2 | Contactin Associated Protein 2 | Protein Coding | 51 | GC07P146116 | 1.244960666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTNAP2 |
| ZDHHC21 | Zinc Finger DHHC-Type Palmitoyltransferase 21 | Protein Coding | 40 | GC09M014590 | 1.242198229 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC21 |
| TSC22D3 | TSC22 Domain Family Member 3 | Protein Coding | 46 | GC0XM107713 | 1.240224838 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC22D3 |
| KAT6B | Lysine Acetyltransferase 6B | Protein Coding | 52 | GC10P074873 | 1.239717484 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT6B |
| DFFB | DNA Fragmentation Factor Subunit Beta | Protein Coding | 50 | GC01P003857 | 1.237127662 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DFFB |
| CD6 | CD6 Molecule | Protein Coding | 48 | GC11P060971 | 1.236596346 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD6 |
| GRB7 | Growth Factor Receptor Bound Protein 7 | Protein Coding | 50 | GC17P061875 | 1.234689474 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRB7 |
| CDYL | Chromodomain Y Like | Protein Coding | 46 | GC06P004706 | 1.230699301 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDYL |

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| EPHB6 | EPH Receptor B6 | Protein Coding | 51 | GC07P149981 | 1.230352283 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB6 |
| STAM | Signal Transducing Adaptor Molecule | Protein Coding | 47 | GC10P017698 | 1.228438377 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAM |
| CYRIB | CYFIP Related Rac1 Interactor B | Protein Coding | 40 | GC08M132565 | 1.221472621 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYRIB |
| GLRA2 | Glycine Receptor Alpha 2 | Protein Coding | 52 | GC0XP014448 | 1.221354008 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA2 |
| SNU13 | Small Nuclear Ribonucleoprotein 13 | Protein Coding | 46 | GC22M061492 | 1.218278646 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNU13 |
| TREM1 | Triggering Receptor Expressed On Myeloid Cells 1 | Protein Coding | 48 | GC06M041267 | 1.218127251 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TREM1 |
| ZDHHC1 | Zinc Finger DHHC-Type Containing 1 | Protein Coding | 42 | GC16M067394 | 1.217028856 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC1 |
| NFASC | Neurofascin | Protein Coding | 50 | GC01P204828 | 1.212895989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFASC |
| TYROBP | Transmembrane Immune Signaling Adaptor TYROBP | Protein Coding | 50 | GC19M035904 | 1.212895989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYROBP |
| RHOQ | Ras Homolog Family Member Q | Protein Coding | 48 | GC02P046543 | 1.205293775 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOQ |
| NEDD9 | Neural Precursor Cell Expressed, Developmentally Down-Regulated 9 | Protein Coding | 48 | GC06M011183 | 1.203222752 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD9 |
| ZDHHC17 | Zinc Finger DHHC-Type Palmitoyltransferase 17 | Protein Coding | 44 | GC12P076763 | 1.20134306 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC17 |
| MARCKSL1 | MARCKS Like 1 | Protein Coding | 43 | GC01M032334 | 1.201022148 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCKSL1 |
| GUCA2A | Guanylate Cyclase Activator 2A | Protein Coding | 43 | GC01M042162 | 1.200126886 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCA2A |
| SLC15A3 | Solute Carrier Family 15 Member 3 | Protein Coding | 43 | GC11M099519 | 1.196174622 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC15A3 |

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| METTL6 | Methyltransferase 6, Methylcytidine | Protein Coding | 40 | GC03M021855 | 1.196174622 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=METTL6 |
| STX4 | Syntaxin 4 | Protein Coding | 48 | GC16P042831 | 1.193569422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STX4 |
| DNASE1 | Deoxyribonuclease 1 | Protein Coding | 50 | GC16P003611 | 1.188389778 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNASE1 |
| SIGMAR1 | Sigma Non-Opioid Intracellular Receptor 1 | Protein Coding | 54 | GC09M034634 | 1.185390472 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGMAR1 |
| CDH3 | Cadherin 3 | Protein Coding | 54 | GC16P068637 | 1.185385942 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH3 |
| BAMBI | BMP And Activin Membrane Bound Inhibitor | Protein Coding | 50 | GC10P028685 | 1.185385942 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAMBI |
| TLX1 | T Cell Leukemia Homeobox 1 | Protein Coding | 46 | GC10P101130 | 1.180054665 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLX1 |
| KIR2DL1 | Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 1 | Protein Coding | 42 | GC19P073500 | 1.180054665 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL1 |
| FGR | FGR Proto-Oncogene, Src Family Tyrosine Kinase | Protein Coding | 53 | GC01M028092 | 1.177772641 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGR |
| ARHGEF1 | Rho Guanine Nucleotide Exchange Factor 12 | Protein Coding | 49 | GC11P120336 | 1.177476287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF12 |
| ERVK-6 | Endogenous Retrovirus Group K Member 6, Envelope | Protein Coding | 21 | GC07U903184 | 1.177476287 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERVK-6 |
| CDY2A | Chromodomain Y-Linked 2A | Protein Coding | 31 | GC0YP018025 | 1.177319527 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDY2A |
| KAT8 | Lysine Acetyltransferase 8 | Protein Coding | 51 | GC16P042841 | 1.171679974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT8 |
| UBFD1 | Ubiquitin Family Domain Containing 1 | Protein Coding | 39 | GC16P023557 | 1.170049906 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBFD1 |
| ETV4 | ETS Variant Transcription Factor 4 | Protein Coding | 49 | GC17M043527 | 1.163003087 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV4 |

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| GFRA2 | GDNF Family Receptor Alpha 2 | Protein Coding | 51 | GC08M021690 | 1.161565185 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA2 |
| CBFA2T2 | CBFA2/RUNX1 Partner Transcriptional Co-Repressor 2 | Protein Coding | 43 | GC20P033490 | 1.158389688 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBFA2T2 |
| LACRT | Lacritin | Protein Coding | 38 | GC12M055055 | 1.158389688 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LACRT |
| CRIPT | CXXC Repeat Containing Interactor Of PDZ3 Domain | Protein Coding | 46 | GC02P046616 | 1.155421019 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRIPT |
| HDAC11 | Histone Deacetylase 11 | Protein Coding | 51 | GC03P013749 | 1.151618719 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC11 |
| S100A2 | S100 Calcium Binding Protein A2 | Protein Coding | 47 | GC01M153561 | 1.150105476 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A2 |
| CD96 | CD96 Molecule | Protein Coding | 51 | GC03P111292 | 1.148190379 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD96 |
| MMP20 | Matrix Metalloproteinase 20 | Protein Coding | 51 | GC11M102576 | 1.147861481 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP20 |
| STK10 | Serine/Threonine Kinase 10 | Protein Coding | 50 | GC05M172042 | 1.147695661 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK10 |
| CCDC26 | CCDC26 Long Non-Coding RNA | RNA Gene | 31 | GC08M132556 | 1.144457102 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC26 |
| ITGA1 | Integrin Subunit Alpha 1 | Protein Coding | 51 | GC05P052788 | 1.142069697 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA1 |
| CLEC4D | C-Type Lectin Domain Family 4 Member D | Protein Coding | 44 | GC12P008509 | 1.141966224 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC4D |
| PSPN | Persephin | Protein Coding | 43 | GC19M006375 | 1.141966224 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSPN |
| QPCT | Glutaminyl-Peptide Cyclotransferase | Protein Coding | 50 | GC02P037344 | 1.141539812 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=QPCT |
| KCNK3 | Potassium Two Pore Domain Channel Subfamily K Member 3 | Protein Coding | 57 | GC02P026692 | 1.140071511 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK3 |

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| KLRC1 | Killer Cell Lectin Like Receptor C1 | Protein Coding | 48 | GC12M022635 | 1.138934731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRC1 |
| SPINT1 | Serine Peptidase Inhibitor, Kunitz Type 1 | Protein Coding | 48 | GC15P040844 | 1.138934731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPINT1 |
| SS18 | SS18 Subunit Of BAF Chromatin Remodeling Complex | Protein Coding | 46 | GC18M026016 | 1.138934731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SS18 |
| TSPAN32 | Tetraspanin 32 | Protein Coding | 42 | GC11P002302 | 1.138934731 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN32 |
| GRM4 | Glutamate Metabotropic Receptor 4 | Protein Coding | 52 | GC06M071850 | 1.136897206 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM4 |
| TNK2 | Tyrosine Kinase Non Receptor 2 | Protein Coding | 54 | GC03M195863 | 1.136035442 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNK2 |
| NSUN5 | NOP2/Sun RNA Methyltransferase 5 | Protein Coding | 45 | GC07M073302 | 1.136035442 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSUN5 |
| AFAP1 | Actin Filament Associated Protein 1 | Protein Coding | 45 | GC04M007758 | 1.135466218 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFAP1 |
| ARHGEF1 | Rho Guanine Nucleotide Exchange Factor 11 | Protein Coding | 48 | GC01M156934 | 1.134341598 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF1 |
| CTRL | Chymotrypsin Like | Protein Coding | 47 | GC16M067927 | 1.133171082 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTRL |
| MCF2 | MCF.2 Cell Line Derived Transforming Sequence | Protein Coding | 47 | GC0XM139581 | 1.130852818 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCF2 |
| GLRA4 | Glycine Receptor Alpha 4 (Pseudogene) | Pseudogene | 32 | GC0XM103707 | 1.126724005 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRA4 |
| NCK1 | NCK Adaptor Protein 1 | Protein Coding | 50 | GC03P136862 | 1.126284242 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCK1 |
| FGF5 | Fibroblast Growth Factor 5 | Protein Coding | 50 | GC04P080266 | 1.118101239 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF5 |
| HDAC10 | Histone Deacetylase 10 | Protein Coding | 51 | GC22M050245 | 1.117851496 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC10 |

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| VGLL3 | Vestigial Like Family Member 3 | Protein Coding | 41 | GC03M086876 | 1.116021156 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VGLL3 |
| HCLS1 | Hematopoietic Cell-Specific Lyn Substrate 1 | Protein Coding | 50 | GC03M121631 | 1.114315152 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCLS1 |
| LY9 | Lymphocyte Antigen 9 | Protein Coding | 47 | GC01P160796 | 1.113487959 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LY9 |
| MYO6 | Myosin VI | Protein Coding | 51 | GC06P075749 | 1.11263597 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO6 |
| MMP16 | Matrix Metalloproteinase 16 | Protein Coding | 52 | GC08M088032 | 1.110368371 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP16 |
| CARD16 | Caspase Recruitment Domain Family Member 16 | Protein Coding | 40 | GC11M105041 | 1.109456182 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARD16 |
| IL12RB2 | Interleukin 12 Receptor Subunit Beta 2 | Protein Coding | 51 | GC01P067307 | 1.108985543 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12RB2 |
| EPHB1 | EPH Receptor B1 | Protein Coding | 55 | GC03P134795 | 1.108498573 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB1 |
| EPHA8 | EPH Receptor A8 | Protein Coding | 51 | GC01P022563 | 1.108498573 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA8 |
| PTPN7 | Protein Tyrosine Phosphatase Non-Receptor Type 7 | Protein Coding | 51 | GC01M202147 | 1.108498573 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN7 |
| ARC | Activity Regulated Cytoskeleton Associated Protein | Protein Coding | 43 | GC08M142611 | 1.108227015 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARC |
| AKAP12 | A-Kinase Anchoring Protein 12 | Protein Coding | 48 | GC06P151239 | 1.107064486 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP12 |
| TRPC1 | Transient Receptor Potential Cation Channel Subfamily C Member 1 | Protein Coding | 48 | GC03P142724 | 1.106306195 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC1 |
| C19orf48 | Chromosome 19 Putative Open Reading Frame 48 | Pseudogene | 36 | GC19M050797 | 1.105926037 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C19orf48 |
| MUC2 | Mucin 2, Oligomeric Mucus/Gel-Forming | Protein Coding | 44 | GC11P001074 | 1.104578614 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC2 |

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| KRT20 | Keratin 20 | Protein Coding | 46 | GC17M040875 | 1.095470786 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT20 |
| KIR2DS4 | Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Short Cytoplasmic Tail 4 | Protein Coding | 37 | GC19P073504 | 1.095470786 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DS4 |
| NAA30 | N-Alpha-Acetyltransferase 30, NatC Catalytic Subunit | Protein Coding | 44 | GC14P057390 | 1.092493534 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA30 |
| EPHB3 | EPH Receptor B3 | Protein Coding | 53 | GC03P184561 | 1.091133595 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB3 |
| CDK20 | Cyclin Dependent Kinase 20 | Protein Coding | 49 | GC09M087966 | 1.091133595 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK20 |
| PTPRR | Protein Tyrosine Phosphatase Receptor Type R | Protein Coding | 45 | GC12M070638 | 1.091133595 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRR |
| ZFP36L1 | ZFP36 Ring Finger Protein Like 1 | Protein Coding | 47 | GC14M068787 | 1.089681864 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36L1 |
| RAP1B | RAP1B, Member Of RAS Oncogene Family | Protein Coding | 50 | GC12P068610 | 1.089631319 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAP1B |
| STMN2 | Stathmin 2 | Protein Coding | 45 | GC08P079610 | 1.086361289 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMN2 |
| ADGRE5 | Adhesion G Protein-Coupled Receptor E5 | Protein Coding | 51 | GC19P014880 | 1.082407951 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADGRE5 |
| GDF5 | Growth Differentiation Factor 5 | Protein Coding | 52 | GC20M035433 | 1.08078897 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDF5 |
| VAV3 | Vav Guanine Nucleotide Exchange Factor 3 | Protein Coding | 50 | GC01M107571 | 1.078908563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV3 |
| F2RL2 | Coagulation Factor II Thrombin Receptor Like 2 | Protein Coding | 47 | GC05M076615 | 1.078908563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL2 |
| ANGPTL1 | Angiopoietin Like 1 | Protein Coding | 46 | GC01M178849 | 1.078908563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL1 |
| RGS16 | Regulator Of G Protein Signaling 16 | Protein Coding | 46 | GC01M182598 | 1.078908563 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS16 |

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| OAS3 | 2'-5'-Oligoadenylate Synthetase 3 | Protein Coding | 46 | GC12P112938 | 1.077958465 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OAS3 |
| NMT2 | N-Myristoyltransferase 2 | Protein Coding | 45 | GC10M015206 | 1.072276354 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMT2 |
| PTPRZ1 | Protein Tyrosine Phosphatase Receptor Type Z1 | Protein Coding | 52 | GC07P121873 | 1.068503141 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRZ1 |
| PTPN4 | Protein Tyrosine Phosphatase Non-Receptor Type 4 | Protein Coding | 47 | GC02P119759 | 1.068503141 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN4 |
| MT1E | Metallothionein 1E | Protein Coding | 43 | GC16P056625 | 1.067718744 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT1E |
| F2RL3 | F2R Like Thrombin Or Trypsin Receptor 3 | Protein Coding | 53 | GC19P016888 | 1.067248344 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL3 |
| WWC1 | WW And C2 Domain Containing 1 | Protein Coding | 47 | GC05P168291 | 1.058328509 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=WWC1 |
| BTC | Betacellulin | Protein Coding | 51 | GC04M074744 | 1.054350853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTC |
| IRF9 | Interferon Regulatory Factor 9 | Protein Coding | 51 | GC14P024161 | 1.054350853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF9 |
| KRT15 | Keratin 15 | Protein Coding | 44 | GC17M041513 | 1.054350853 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT15 |
| GTF3A | General Transcription Factor IIIA | Protein Coding | 42 | GC13P027429 | 1.052797198 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF3A |
| C1S | Complement C1s | Protein Coding | 54 | GC12P023568 | 1.051964879 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1S |
| UNC13C | Unc-13 Homolog C | Protein Coding | 40 | GC15P053838 | 1.048702359 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UNC13C |
| ITGB7 | Integrin Subunit Beta 7 | Protein Coding | 52 | GC12M053191 | 1.042477012 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB7 |
| CD177 | CD177 Molecule | Protein Coding | 46 | GC19P043353 | 1.040836096 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD177 |

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| GSDMC | Gasdermin C | Protein Coding | 40 | GC08M129705 | 1.03986001 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSDMC |
| HRG | Histidine Rich Glycoprotein | Protein Coding | 52 | GC03P186660 | 1.039795876 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRG |
| EFNA5 | Ephrin A5 | Protein Coding | 51 | GC05M107376 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNA5 |
| RASGRF1 | Ras Protein Specific Guanine Nucleotide Releasing Factor 1 | Protein Coding | 50 | GC15M078959 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASGRF1 |
| VAV2 | Vav Guanine Nucleotide Exchange Factor 2 | Protein Coding | 49 | GC09M133761 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV2 |
| DSG3 | Desmoglein 3 | Protein Coding | 48 | GC18P031447 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSG3 |
| NCK2 | NCK Adaptor Protein 2 | Protein Coding | 48 | GC02P105744 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCK2 |
| SLAMF6 | SLAM Family Member 6 | Protein Coding | 47 | GC01M160454 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLAMF6 |
| GEM | GTP Binding Protein Overexpressed In Skeletal Muscle | Protein Coding | 46 | GC08M094249 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GEM |
| RHBDF1 | Rhomoid 5 Homolog 1 | Protein Coding | 45 | GC16M000058 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHBDF1 |
| SIGLEC12 | Sialic Acid Binding Ig Like Lectin 12 | Protein Coding | 45 | GC19M051491 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC12 |
| ERRFI1 | ERBB Receptor Feedback Inhibitor 1 | Protein Coding | 43 | GC01M008004 | 1.039711475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERRFI1 |
| GRM8 | Glutamate Metabotropic Receptor 8 | Protein Coding | 53 | GC07M126438 | 1.037789106 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM8 |
| IL17RD | Interleukin 17 Receptor D | Protein Coding | 52 | GC03M057089 | 1.029799223 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17RD |
| LOC111674472 | DNase I Hypersensitive Sites In Introns 16 And 17a Of CFTR | Functional Element | 4 | GC07P117607 | 1.027813554 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC111674472 |

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| NRCAM | Neuronal Cell Adhesion Molecule | Protein Coding | 51 | GC07M108147 | 1.022346497 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRCAM |
| CD300A | CD300a Molecule | Protein Coding | 47 | GC17P074466 | 1.022346497 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD300A |
| HTN3 | Histatin 3 | Protein Coding | 38 | GC04P070028 | 1.022087574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTN3 |
| GJA4 | Gap Junction Protein Alpha 4 | Protein Coding | 50 | GC01P034792 | 1.019160032 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA4 |
| EPHA5 | EPH Receptor A5 | Protein Coding | 53 | GC04M065319 | 1.013868332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA5 |
| CDKL1 | Cyclin Dependent Kinase Like 1 | Protein Coding | 46 | GC14M050330 | 1.013868332 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKL1 |
| SEMA3B | Semaphorin 3B | Protein Coding | 47 | GC03P050267 | 1.013504267 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3B |
| METTL2B | Methyltransferase 2B, Methylcytidine | Protein Coding | 40 | GC07P132479 | 1.013077974 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=METTL2B |
| PAG1 | Phosphoprotein Membrane Anchor With Glycosphingolipid Microdomains 1 | Protein Coding | 46 | GC08M080967 | 1.012400031 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAG1 |
| INA | Internexin Neuronal Intermediate Filament Protein Alpha | Protein Coding | 45 | GC10P103277 | 1.011909842 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INA |
| SLC17A6 | Solute Carrier Family 17 Member 6 | Protein Coding | 47 | GC11P022359 | 1.005619407 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A6 |
| NPTX1 | Neuronal Pentraxin 1 | Protein Coding | 47 | GC17M080466 | 1.002447128 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPTX1 |
| IL5RA | Interleukin 5 Receptor Subunit Alpha | Protein Coding | 53 | GC03M003066 | 1.001373172 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5RA |
| LGR6 | Leucine Rich Repeat Containing G Protein-Coupled Receptor 6 | Protein Coding | 48 | GC01P202193 | 1.000739813 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGR6 |
| SNX1 | Sorting Nexin 1 | Protein Coding | 46 | GC15P064094 | 1.000739813 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX1 |

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| KIR2DL3 | Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 3 | Protein Coding | 43 | GC19P074381 | 1.000186682 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL3 |
| KLRB1 | Killer Cell Lectin Like Receptor B1 | Protein Coding | 47 | GC12M022622 | 0.999716043 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRB1 |
| PITX3 | Paired Like Homeodomain 3 | Protein Coding | 46 | GC10M102230 | 0.999716043 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITX3 |
| GPR182 | G Protein-Coupled Receptor 182 | Protein Coding | 44 | GC12P056994 | 0.999716043 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR182 |
| CHRNE | Cholinergic Receptor Nicotinic Epsilon Subunit | Protein Coding | 51 | GC17M004897 | 0.999406278 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNE |
| TUB | TUB Bipartite Transcription Factor | Protein Coding | 50 | GC11P008040 | 0.994702637 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUB |
| EPS8 | Epidermal Growth Factor Receptor Pathway Substrate 8 | Protein Coding | 52 | GC12M022709 | 0.987842262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPS8 |
| UBASH3B | Ubiquitin Associated And SH3 Domain Containing B | Protein Coding | 48 | GC11P122655 | 0.987842262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBASH3B |
| ASAP1 | ArfGAP With SH3 Domain, Ankyrin Repeat And PH Domain 1 | Protein Coding | 47 | GC08M130052 | 0.987842262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASAP1 |
| SKAP2 | Src Kinase Associated Phosphoprotein 2 | Protein Coding | 46 | GC07M026654 | 0.987842262 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SKAP2 |
| KCNA2 | Potassium Voltage-Gated Channel Subfamily A Member 2 | Protein Coding | 53 | GC01M110519 | 0.985289454 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNA2 |
| IGF2BP2-AS1 | IGF2BP2 Antisense RNA 1 | RNA Gene | 26 | GC03P185620 | 0.982193828 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP2-AS1 |
| SKAP1 | Src Kinase Associated Phosphoprotein 1 | Protein Coding | 45 | GC17M048133 | 0.980487883 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SKAP1 |
| NAA60 | N-Alpha-Acetyltransferase 60, NatF Catalytic Subunit | Protein Coding | 43 | GC16P003443 | 0.97929728 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA60 |
| PURA | Purine Rich Element Binding Protein A | Protein Coding | 51 | GC05P140076 | 0.976546884 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PURA |

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| MEOX2 | Mesenchyme Homeobox 2 | Protein Coding | 46 | GC07M015617 | 0.976295114 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEOX2 |
| OXER1 | Oxoecosanoid Receptor 1 | Protein Coding | 45 | GC02M042762 | 0.973202944 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXER1 |
| GRIN3B | Glutamate Ionotropic Receptor NMDA Type Subunit 3B | Protein Coding | 49 | GC19P001000 | 0.957497299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN3B |
| RIN1 | Ras And Rab Interactor 1 | Protein Coding | 44 | GC11M099757 | 0.955837965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIN1 |
| TOM1L1 | Target Of Myb1 Like 1 Membrane Trafficking Protein | Protein Coding | 42 | GC17P062999 | 0.955837965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOM1L1 |
| SH3BGRL | SH3 Domain Binding Glutamate Rich Protein Like 2 | Protein Coding | 40 | GC06P092694 | 0.955837965 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3BGRL2 |
| FZD9 | Frizzled Class Receptor 9 | Protein Coding | 51 | GC07P073433 | 0.95253402 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FZD9 |
| CADM2 | Cell Adhesion Molecule 2 | Protein Coding | 47 | GC03P084961 | 0.952244639 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CADM2 |
| NUDT6 | Nudix Hydrolase 6 | Protein Coding | 43 | GC04M122888 | 0.950953603 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDT6 |
| ZDHHC3 | Zinc Finger DHHC-Type Palmitoyltransferase 3 | Protein Coding | 43 | GC03M044915 | 0.950109363 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC3 |
| PCDH15 | Protocadherin Related 15 | Protein Coding | 48 | GC10M053802 | 0.946790814 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDH15 |
| HGFAC | HGF Activator | Protein Coding | 48 | GC04P003443 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGFAC |
| PLXNC1 | Plexin C1 | Protein Coding | 47 | GC12P094150 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLXNC1 |
| SLA2 | Src Like Adaptor 2 | Protein Coding | 46 | GC20M036613 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLA2 |
| LILRB4 | Leukocyte Immunoglobulin Like Receptor B4 | Protein Coding | 44 | GC19P054643 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB4 |

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| RASA3 | RAS P21 Protein Activator 3 | Protein Coding | 44 | GC13M113977 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA3 |
| FCGR2C | Fc Gamma Receptor IIc (Gene/Pseudogene) | Protein Coding | 40 | GC01P161818 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2C |
| SPAG4 | Sperm Associated Antigen 4 | Protein Coding | 40 | GC20P035615 | 0.945081234 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPAG4 |
| GYPE | Glycophorin E (MNS Blood Group) | Protein Coding | 35 | GC04M143870 | 0.941309452 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYPE |
| GFRA3 | GDNF Family Receptor Alpha 3 | Protein Coding | 50 | GC05M138263 | 0.933207512 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA3 |
| GRAP2 | GRB2 Related Adaptor Protein 2 | Protein Coding | 50 | GC22P045214 | 0.933207512 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRAP2 |
| STON2 | Stonin 2 | Protein Coding | 41 | GC14M081260 | 0.933207512 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=STON2 |
| GNRH2 | Gonadotropin Releasing Hormone 2 | Protein Coding | 40 | GC20P003043 | 0.933207512 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRH2 |
| MSLN | Mesothelin | Protein Coding | 50 | GC16P013455 | 0.93258357 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSLN |
| ECE2 | Endothelin Converting Enzyme 2 | Protein Coding | 46 | GC03P184276 | 0.928997397 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECE2 |
| S100G | S100 Calcium Binding Protein G | Protein Coding | 42 | GC0XP016668 | 0.925257087 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100G |
| COL17A1 | Collagen Type XVII Alpha 1 Chain | Protein Coding | 51 | GC10M104031 | 0.92325455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL17A1 |
| LNX1 | Ligand Of Numb-Protein X 1 | Protein Coding | 48 | GC04M053459 | 0.92325455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LNX1 |
| GPR17 | G Protein-Coupled Receptor 17 | Protein Coding | 48 | GC02P127645 | 0.922787964 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR17 |
| UBE2NL | Ubiquitin Conjugating Enzyme E2 N Like (Gene/Pseudogene) | Protein Coding | 31 | GC0XP143884 | 0.920240343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2NL |

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| AKAP5 | A-Kinase Anchoring Protein 5 | Protein Coding | 47 | GC14P064465 | 0.917392969 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP5 |
| DAB1 | DAB Adaptor Protein 1 | Protein Coding | 50 | GC01M056994 | 0.912124336 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAB1 |
| AFDN | Afadin, Adherens Junction Formation Factor | Protein Coding | 48 | GC06P167827 | 0.912124336 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFDN |
| SLC9A6 | Solute Carrier Family 9 Member A6 | Protein Coding | 53 | GC0XP135985 | 0.905902743 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A6 |
| ZDHHC7 | Zinc Finger DHHC-Type Palmitoyltransferase 7 | Protein Coding | 43 | GC16M084975 | 0.905520856 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC7 |
| ZDHHC4 | Zinc Finger DHHC-Type Palmitoyltransferase 4 | Protein Coding | 40 | GC07P006577 | 0.905520856 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC4 |
| JMJD6 | Jumonji Domain Containing 6, Arginine Demethylase And Lysine Hydroxylase | Protein Coding | 49 | GC17M076718 | 0.904907465 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JMJD6 |
| METAP2 | Methionyl Aminopeptidase 2 | Protein Coding | 52 | GC12P095473 | 0.903258324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=METAP2 |
| ABT1 | Activator Of Basal Transcription 1 | Protein Coding | 41 | GC06P091965 | 0.903258324 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABT1 |
| EDN2 | Endothelin 2 | Protein Coding | 47 | GC01M041478 | 0.900304377 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN2 |
| ZC2HC1A | Zinc Finger C2HC-Type Containing 1A | Protein Coding | 38 | GC08P078666 | 0.89760989 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC2HC1A |
| RAB39B | RAB39B, Member RAS Oncogene Family | Protein Coding | 44 | GC0XM155259 | 0.896075845 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB39B |
| SLC24A3 | Solute Carrier Family 24 Member 3 | Protein Coding | 46 | GC20P019212 | 0.889909029 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC24A3 |
| DRAM1 | DNA Damage Regulated Autophagy Modulator 1 | Protein Coding | 37 | GC12P101877 | 0.887507498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRAM1 |
| LOC108663987 | Ataxin 3 Repeat Instability Region | Functional Element | 4 | GC14P092071 | 0.887507498 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC108663987 |

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| ERBIN | ErbB2 Interacting Protein | Protein Coding | 46 | GC05P065884 | 0.88390404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBIN |
| TRPC4 | Transient Receptor Potential Cation Channel Subfamily C Member 4 | Protein Coding | 50 | GC13M037638 | 0.878572762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC4 |
| ARTN | Artemin | Protein Coding | 47 | GC01P043933 | 0.878572762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARTN |
| LILRA4 | Leukocyte Immunoglobulin Like Receptor A4 | Protein Coding | 46 | GC19M054333 | 0.878572762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRA4 |
| MUC3B | Mucin 3B, Cell Surface Associated | Protein Coding | 22 | GC07U903146 | 0.878572762 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC3B |
| ATP6V1D | ATPase H ⁺ Transporting V1 Subunit D | Protein Coding | 47 | GC14M067294 | 0.878209412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP6V1D |
| MMP25 | Matrix Metalloproteinase 25 | Protein Coding | 47 | GC16P013548 | 0.873746693 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP25 |
| NTN1 | Netrin 1 | Protein Coding | 52 | GC17P011813 | 0.873181343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTN1 |
| ZMYM2 | Zinc Finger MYM-Type Containing 2 | Protein Coding | 48 | GC13P020139 | 0.873181343 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZMYM2 |
| P2RX1 | Purinergic Receptor P2X 1 | Protein Coding | 50 | GC17M003896 | 0.867829382 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX1 |
| CNTN2 | Contactin 2 | Protein Coding | 52 | GC01P205043 | 0.861521125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTN2 |
| LILRB1 | Leukocyte Immunoglobulin Like Receptor B1 | Protein Coding | 50 | GC19P073495 | 0.861521125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LILRB1 |
| PAEP | Progesterone Associated Endometrial Protein | Protein Coding | 47 | GC09P135561 | 0.861521125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAEP |
| TOB1 | Transducer Of ERBB2, 1 | Protein Coding | 47 | GC17M050862 | 0.861521125 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOB1 |
| SLC17A7 | Solute Carrier Family 17 Member 7 | Protein Coding | 47 | GC19M049429 | 0.850808859 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A7 |

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| | RXFP1 | Relaxin Family Peptide Receptor 1 | Protein Coding | 51 | GC04P158315 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RXFP1 |
| 5 | ARHGAP3 | Rho GTPase Activating Protein 35 | Protein Coding | 46 | GC19P046860 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP35 |
| | SHC3 | SHC Adaptor Protein 3 | Protein Coding | 46 | GC09M089005 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHC3 |
| | SWAP70 | Switching B Cell Complex Subunit SWAP70 | Protein Coding | 46 | GC11P009664 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SWAP70 |
| | SH2D2A | SH2 Domain Containing 2A | Protein Coding | 45 | GC01M156952 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D2A |
| | SH3BP5 | SH3 Domain Binding Protein 5 | Protein Coding | 44 | GC03M021849 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3BP5 |
| | TCEAL1 | Transcription Elongation Factor A Like 1 | Protein Coding | 42 | GC0XP103628 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCEAL1 |
| | ETV7 | ETS Variant Transcription Factor 7 | Protein Coding | 40 | GC06M071871 | 0.848623574 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV7 |
| 7 | LOC34496 | Acyl-CoA Thioesterase 7 Pseudogene | Pseudogene | 15 | GC04M040045 | 0.848313689 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC344967 |
| | KIF5C | Kinesin Family Member 5C | Protein Coding | 48 | GC02P148875 | 0.842474699 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5C |
| | ANGPT4 | Angiopoietin 4 | Protein Coding | 49 | GC20M000869 | 0.833984256 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT4 |
| | DOK2 | Docking Protein 2 | Protein Coding | 49 | GC08M021908 | 0.833984256 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOK2 |
| | CD48 | CD48 Molecule | Protein Coding | 47 | GC01M160648 | 0.833984256 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD48 |
| | FCAR | Fc Alpha Receptor | Protein Coding | 47 | GC19P073506 | 0.833984256 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCAR |
| | ADRA1D | Adrenoceptor Alpha 1D | Protein Coding | 51 | GC20M004220 | 0.828397751 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1D |

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| CHRNA4 | Cholinergic Receptor Nicotinic Beta 4 Subunit | Protein Coding | 51 | GC15M078624 | 0.817885756 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA4 | |
| SLAMF1 | Signaling Lymphocytic Activation Molecule Family Member 1 | Protein Coding | 49 | GC01M160608 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLAMF1 | |
| EFNB3 | Ephrin B3 | Protein Coding | 48 | GC17P011746 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB3 | |
| GRAP | GRB2 Related Adaptor Protein | Protein Coding | 48 | GC17M050970 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRAP | |
| 2 | ARHGAP3 | Rho GTPase Activating Protein 32 | Protein Coding | 46 | GC11M128965 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP32 |
| | SH2D1B | SH2 Domain Containing 1B | Protein Coding | 44 | GC01M162395 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2D1B |
| | ERVW-1 | Endogenous Retrovirus Group W Member 1, Envelope | Protein Coding | 42 | GC07M092468 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERVW-1 |
| | INSL4 | Insulin Like 4 | Protein Coding | 39 | GC09P005231 | 0.816619277 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSL4 |
| | ZDHHC9 | Zinc Finger DHHC-Type Palmitoyltransferase 9 | Protein Coding | 50 | GC0XM129803 | 0.810890675 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC9 |
| | ZDHHC11 | Zinc Finger DHHC-Type Containing 11 | Protein Coding | 41 | GC05M000795 | 0.810890675 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC11 |
| B | ZDHHC11 | Zinc Finger DHHC-Type Containing 11B | Protein Coding | 32 | GC05M000710 | 0.810890675 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC11B |
| | INTS2 | Integrator Complex Subunit 2 | Protein Coding | 40 | GC17M061865 | 0.804532051 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=INTS2 |
| | DPYSL3 | Dihydropyrimidinase Like 3 | Protein Coding | 46 | GC05M147390 | 0.798763692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL3 |
| | GZMA | Granzyme A | Protein Coding | 50 | GC05P055102 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GZMA |
| | RPH3A | Rabphilin 3A | Protein Coding | 46 | GC12P112570 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPH3A |

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| SEZ6L2 | Seizure Related 6 Homolog Like 2 | Protein Coding | 46 | GC16M038421 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEZ6L2 |
| CNKSR1 | Connector Enhancer Of Kinase Suppressor Of Ras 1 | Protein Coding | 44 | GC01P026178 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNKSR1 |
| FRS3 | Fibroblast Growth Factor Receptor Substrate 3 | Protein Coding | 40 | GC06M071935 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRS3 |
| PTPRCAP | Protein Tyrosine Phosphatase Receptor Type C Associated Protein | Protein Coding | 40 | GC11M099809 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRCAP |
| OCM2 | Oncomodulin 2 | Protein Coding | 33 | GC07M097984 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OCM2 |
| AAVS1 | Adeno-Associated Virus Integration Site 1 | Genetic Locus | 6 | GC19U990001 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AAVS1 |
| NM | Neutrophil Migration | Genetic Locus | 6 | GC07U990060 | 0.793988824 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NM |
| ZFP36L2 | ZFP36 Ring Finger Protein Like 2 | Protein Coding | 44 | GC02M043184 | 0.773427129 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP36L2 |
| SLC1A6 | Solute Carrier Family 1 Member 6 | Protein Coding | 51 | GC19M014921 | 0.773018479 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A6 |
| LDC1P | Leucine Decarboxylase 1, Pseudogene | Pseudogene | 13 | GC01P031501 | 0.771194696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDC1P |
| PDCD1LG | Programmed Cell Death 1 Ligand 2 | Protein Coding | 50 | GC09P005510 | 0.767283797 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD1LG2 |
| IL1RL1 | Interleukin 1 Receptor Like 1 | Protein Coding | 48 | GC02P102294 | 0.767182589 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RL1 |
| C1R | Complement C1r | Protein Coding | 53 | GC12M007993 | 0.765953422 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1R |
| PGGT1B | Protein Geranylgeranyltransferase Type I Subunit Beta | Protein Coding | 42 | GC05M115200 | 0.741063714 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGGT1B |
| TAPBP | TAP Binding Protein | Protein Coding | 51 | GC06M033299 | 0.738563597 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAPBP |

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| HEBP1 | Heme Binding Protein 1 | Protein Coding | 40 | GC12M012974 | 0.737105608 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEBP1 |
| GRIK5 | Glutamate Ionotropic Receptor Kainate Type Subunit 5 | Protein Coding | 52 | GC19M041998 | 0.736668408 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK5 |
| POLH | DNA Polymerase Eta | Protein Coding | 55 | GC06P043576 | 0.727330506 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLH |
| GTF3C4 | General Transcription Factor IIIC Subunit 4 | Protein Coding | 44 | GC09P132671 | 0.727330506 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF3C4 |
| SHANK3 | SH3 And Multiple Ankyrin Repeat Domains 3 | Protein Coding | 45 | GC22P050674 | 0.725786924 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHANK3 |
| H3-4 | H3.4 Histone, Cluster Member | Protein Coding | 44 | GC01M228427 | 0.722606659 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=H3-4 |
| ZDHHC24 | Zinc Finger DHHC-Type Containing 24 | Protein Coding | 40 | GC11M099766 | 0.714433014 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC24 |
| PADI4 | Peptidyl Arginine Deiminase 4 | Protein Coding | 51 | GC01P017308 | 0.704137444 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PADI4 |
| NAA20 | N-Alpha-Acetyltransferase 20, NatB Catalytic Subunit | Protein Coding | 47 | GC20P020018 | 0.699793696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA20 |
| ZDHHC8 | Zinc Finger DHHC-Type Palmitoyltransferase 8 | Protein Coding | 46 | GC22P020129 | 0.699793696 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC8 |
| MPDZ | Multiple PDZ Domain Crumbs Cell Polarity Complex Component | Protein Coding | 50 | GC09M013105 | 0.69947648 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPDZ |
| PTMA | Prothymosin Alpha | Protein Coding | 48 | GC02P231838 | 0.692750692 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTMA |
| ZDHHC6 | Zinc Finger DHHC-Type Palmitoyltransferase 6 | Protein Coding | 43 | GC10M112430 | 0.682428718 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC6 |
| JUND | JunD Proto-Oncogene, AP-1 Transcription Factor Subunit | Protein Coding | 48 | GC19M018279 | 0.682285666 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUND |
| GRIK3 | Glutamate Ionotropic Receptor Kainate Type Subunit 3 | Protein Coding | 51 | GC01M036795 | 0.680615485 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK3 |

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| HSPE1 | Heat Shock Protein Family E (Hsp10) Member 1 | Protein Coding | 49 | GC02P197501 | 0.67894119 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPE1 |
| PDS5B | PDS5 Cohesin Associated Factor B | Protein Coding | 44 | GC13P032586 | 0.66158253 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDS5B |
| ZDHHC14 | Zinc Finger DHHC-Type Palmitoyltransferase 14 | Protein Coding | 43 | GC06P157381 | 0.659798265 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC14 |
| ZDHHC12 | Zinc Finger DHHC-Type Palmitoyltransferase 12 | Protein Coding | 36 | GC09M128720 | 0.659798265 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC12 |
| RLN2 | Relaxin 2 | Protein Coding | 42 | GC09M005438 | 0.655414581 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RLN2 |
| OMP | Olfactory Marker Protein | Protein Coding | 42 | GC11P077102 | 0.645645916 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OMP |
| NPTX2 | Neuronal Pentraxin 2 | Protein Coding | 49 | GC07P098620 | 0.642618299 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPTX2 |
| PPP1R9B | Protein Phosphatase 1 Regulatory Subunit 9B | Protein Coding | 47 | GC17M050133 | 0.628742099 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R9B |
| TNXA | Tenascin XA (Pseudogene) | Pseudogene | 27 | GC06M071744 | 0.625919342 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNXA |
| MYO7A | Myosin VIIA | Protein Coding | 50 | GC11P077128 | 0.625438094 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO7A |
| ACKR2 | Atypical Chemokine Receptor 2 | Protein Coding | 47 | GC03P042804 | 0.619987786 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACKR2 |
| SLC4A10 | Solute Carrier Family 4 Member 10 | Protein Coding | 47 | GC02P161425 | 0.609507203 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A10 |
| ZDHHC15 | Zinc Finger DHHC-Type Palmitoyltransferase 15 | Protein Coding | 44 | GC0XM075368 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC15 |
| ZDHHC19 | Zinc Finger DHHC-Type Palmitoyltransferase 19 | Protein Coding | 43 | GC03M196197 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC19 |
| ZDHHC16 | Zinc Finger DHHC-Type Palmitoyltransferase 16 | Protein Coding | 40 | GC10P097446 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC16 |

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| ZDHHC23 | Zinc Finger DHHC-Type Palmitoyltransferase 23 | Protein Coding | 40 | GC03P113947 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC23 |
| NAA11 | N-Alpha-Acetyltransferase 11, NatA Catalytic Subunit | Protein Coding | 38 | GC04M079155 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA11 |
| ZDHHC22 | Zinc Finger DHHC-Type Palmitoyltransferase 22 | Protein Coding | 35 | GC14M077159 | 0.605163455 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC22 |
| GRIK4 | Glutamate Ionotropic Receptor Kainate Type Subunit 4 | Protein Coding | 52 | GC11P120512 | 0.604043722 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK4 |
| GJB6 | Gap Junction Protein Beta 6 | Protein Coding | 49 | GC13M020221 | 0.599481165 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB6 |
| AGAP2 | ArfGAP With GTPase Domain, Ankyrin Repeat And PH Domain 2 | Protein Coding | 47 | GC12M057723 | 0.596378684 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGAP2 |
| CACNG3 | Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 3 | Protein Coding | 48 | GC16P024615 | 0.595825553 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG3 |
| DCAF4 | DDB1 And CUL4 Associated Factor 4 | Protein Coding | 38 | GC14P072926 | 0.595719576 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCAF4 |
| TACR2 | Tachykinin Receptor 2 | Protein Coding | 50 | GC10M069403 | 0.584081471 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TACR2 |
| TRAK1 | Trafficking Kinesin Protein 1 | Protein Coding | 48 | GC03P042020 | 0.580011547 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAK1 |
| CCR10 | C-C Motif Chemokine Receptor 10 | Protein Coding | 42 | GC17M042678 | 0.534312725 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR10 |
| TMC2 | Transmembrane Channel Like 2 | Protein Coding | 42 | GC20P002536 | 0.529317021 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMC2 |
| TRPM1 | Transient Receptor Potential Cation Channel Subfamily M Member 1 | Protein Coding | 51 | GC15M031001 | 0.490211636 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM1 |
| RSL24D1 | Ribosomal L24 Domain Containing 1 | Protein Coding | 43 | GC15M055180 | 0.482226133 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RSL24D1 |
| TMEM37 | Transmembrane Protein 37 | Protein Coding | 38 | GC02P119429 | 0.465801805 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM37 |

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|--------|--|----------------|----|-------------|-------------|---|
| DEFA1 | Defensin Alpha 1 | Protein Coding | 44 | GC08M006977 | 0.45585534 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA1 |
| KEL | Kell Metallo-Endopeptidase (Kell Blood Group) | Protein Coding | 48 | GC07M143027 | 0.439531475 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=KEL |
| GRINA | Glutamate Ionotropic Receptor NMDA Type Subunit Associated Protein 1 | Protein Coding | 40 | GC08P143990 | 0.43129757 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRINA |
| C4BPA | Complement Component 4 Binding Protein Alpha | Protein Coding | 49 | GC01P207105 | 0.429623127 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4BPA |
| RCOR1 | REST Corepressor 1 | Protein Coding | 49 | GC14P102592 | 0.429034412 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCOR1 |
| TMC1 | Transmembrane Channel Like 1 | Protein Coding | 46 | GC09P072521 | 0.390098333 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMC1 |
| CRYBA1 | Crystallin Beta A1 | Protein Coding | 46 | GC17P029246 | 0.389627695 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYBA1 |
| TAAR6 | Trace Amine Associated Receptor 6 | Protein Coding | 40 | GC06P132570 | 0.389627695 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAAR6 |
| ZNF521 | Zinc Finger Protein 521 | Protein Coding | 43 | GC18M025061 | 0.345749646 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF521 |
| CACNG1 | Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 1 | Protein Coding | 48 | GC17P067044 | 0.342445672 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG1 |
| P2RY4 | Pyrimidinergic Receptor P2Y4 | Protein Coding | 46 | GC0XM070258 | 0.340865254 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY4 |
| USH1C | USH1 Protein Network Component Harmonin | Protein Coding | 50 | GC11M017665 | 0.334992945 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=USH1C |
| P2RY6 | Pyrimidinergic Receptor P2Y6 | Protein Coding | 48 | GC11P073264 | 0.310468733 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY6 |
| TRAK2 | Trafficking Kinesin Protein 2 | Protein Coding | 47 | GC02M201377 | 0.304976404 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAK2 |
| MRGPRD | MAS Related GPR Family Member D | Protein Coding | 43 | GC11M068980 | 0.288439035 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRGPRD |

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|---------|---|--------------------|----|-------------|-------------|---|
| HBB-LCR | Beta-Globin Locus Control Region | Functional Element | 7 | GC11P005434 | 0.260074615 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBB-LCR |
| GRIPAP1 | GRIP1 Associated Protein 1 | Protein Coding | 41 | GC0XM048973 | 0.23853527 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIPAP1 |
| CACNG8 | Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 8 | Protein Coding | 43 | GC19P073470 | 0.237444133 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG8 |
| CACNG4 | Calcium Voltage-Gated Channel Auxiliary Subunit Gamma 4 | Protein Coding | 48 | GC17P066964 | 0.223895937 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNG4 |
| OR51E1 | Olfactory Receptor Family 51 Subfamily E Member 1 | Protein Coding | 40 | GC11P004643 | 0.206530973 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR51E1 |
| PCDHGC3 | Protocadherin Gamma Subfamily C, 3 | Protein Coding | 45 | GC05P141475 | 0.183900505 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDHGC3 |
| CST2 | Cystatin SA | Protein Coding | 39 | GC20M023805 | 0.183900505 | https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST2 |