**Supplementary Table 1.** Degree rank of nodes in the PPI network of 1110 DEGs in HCC (Node\_degree > 0).

|  |  |  |  |
| --- | --- | --- | --- |
| **Network Node** | **Node\_degree** | **Network Node** | **Node\_degree** |
| CDK1 | 91 | RRS1 | 4 |
| CCNB1 | 72 | RUVBL2 | 4 |
| TOP2A | 62 | SARDH | 4 |
| BUB1 | 61 | SDS | 4 |
| CCNB2 | 59 | SERPINE1 | 4 |
| CDC20 | 58 | SRD5A2 | 4 |
| KIF11 | 56 | TAT | 4 |
| AURKB | 52 | TK1 | 4 |
| BUB1B | 51 | TRAT1 | 4 |
| MAD2L1 | 51 | UPB1 | 4 |
| CDCA8 | 50 | USP1 | 4 |
| ASPM | 49 | A2M | 3 |
| NCAPG | 48 | ACACA | 3 |
| RRM2 | 48 | ACSL1 | 3 |
| NDC80 | 47 | ACSL4 | 3 |
| AURKA | 45 | ACSL5 | 3 |
| DLGAP5 | 45 | ADK | 3 |
| TTK | 44 | AGTR1 | 3 |
| MCM4 | 43 | AKR1B10 | 3 |
| NUSAP1 | 43 | AOC3 | 3 |
| PRC1 | 43 | APOA4 | 3 |
| UBE2C | 43 | APOL1 | 3 |
| CDC45 | 42 | APOM | 3 |
| KIF20A | 42 | ARG1 | 3 |
| MCM3 | 42 | ASL | 3 |
| TPX2 | 41 | ASNS | 3 |
| MCM5 | 39 | ASRGL1 | 3 |
| KIF23 | 38 | BATF | 3 |
| CENPE | 37 | BBOX1 | 3 |
| CEP55 | 37 | BCKDHB | 3 |
| MCM2 | 37 | BDH1 | 3 |
| KIF4A | 36 | BDH2 | 3 |
| MELK | 36 | CD14 | 3 |
| CENPF | 35 | CENPM | 3 |
| CDC6 | 34 | CSPG5 | 3 |
| PBK | 34 | DAK | 3 |
| RFC4 | 34 | EPHA2 | 3 |
| EHHADH | 30 | F13B | 3 |
| PTTG1 | 30 | F9 | 3 |
| RACGAP1 | 29 | FCN2 | 3 |
| CHEK1 | 27 | FCN3 | 3 |
| FOXM1 | 26 | GADD45B | 3 |
| MCM6 | 26 | GADD45G | 3 |
| NCAPH | 26 | GLS2 | 3 |
| RRM1 | 26 | GPT | 3 |
| SMC2 | 26 | GRHPR | 3 |
| ACOX1 | 25 | HBB | 3 |
| CDCA3 | 25 | HK2 | 3 |
| CYP2E1 | 25 | HPR | 3 |
| HJURP | 25 | IRAK3 | 3 |
| KIAA0101 | 24 | LAMA2 | 3 |
| SMC4 | 24 | LUM | 3 |
| TYMS | 24 | MAT1A | 3 |
| CYP3A4 | 23 | MTHFD1 | 3 |
| ECT2 | 22 | MUC13 | 3 |
| MAPK1 | 22 | MUC6 | 3 |
| POLE2 | 22 | NAT2 | 3 |
| CKAP2 | 21 | NOL12 | 3 |
| FYN | 21 | OAT | 3 |
| MCM10 | 21 | PAK1IP1 | 3 |
| AOX1 | 20 | PCK2 | 3 |
| AGXT | 19 | PEMT | 3 |
| CYP1A1 | 19 | PHF21A | 3 |
| CYP2B6 | 19 | PKN1 | 3 |
| F2 | 19 | PLA2G16 | 3 |
| HMGCL | 19 | PTPN22 | 3 |
| PRIM1 | 19 | RCL1 | 3 |
| CDKN3 | 18 | SETDB1 | 3 |
| CKS2 | 18 | STMN1 | 3 |
| FEN1 | 18 | UBE2M | 3 |
| GINS2 | 18 | ACD | 2 |
| CYP1A2 | 17 | AFP | 2 |
| CYP2C9 | 17 | ALDH1L1 | 2 |
| CYP4A11 | 17 | ANGPT2 | 2 |
| LCK | 17 | BCAT1 | 2 |
| APOA1 | 16 | CBX1 | 2 |
| EPHX2 | 16 | CCL19 | 2 |
| ESR1 | 16 | CCL20 | 2 |
| GINS1 | 16 | CCNF | 2 |
| MYC | 16 | CCT6A | 2 |
| ACOX2 | 15 | CD163 | 2 |
| CAT | 15 | CD1D | 2 |
| CYP26A1 | 15 | CDA | 2 |
| CYP2A6 | 15 | CDO1 | 2 |
| DAO | 15 | CES2 | 2 |
| GMNN | 15 | CHST4 | 2 |
| H2AFZ | 15 | COL5A3 | 2 |
| KIFC1 | 15 | COLEC11 | 2 |
| OIP5 | 15 | CPT2 | 2 |
| PRIM2 | 15 | CSAD | 2 |
| TACC3 | 15 | CYP2C18 | 2 |
| TIPIN | 15 | DBH | 2 |
| DTL | 14 | DCLRE1B | 2 |
| EZH2 | 14 | DCTPP1 | 2 |
| FOS | 14 | DKK1 | 2 |
| CDK4 | 13 | DUSP4 | 2 |
| CYP2C8 | 13 | DUSP9 | 2 |
| GINS3 | 13 | EDNRB | 2 |
| HAO1 | 13 | ERCC2 | 2 |
| HAO2 | 13 | ERCC6L | 2 |
| NUP62 | 13 | FCGR2B | 2 |
| ORC6 | 13 | FGF16 | 2 |
| SLC27A2 | 13 | FMO3 | 2 |
| AKR1C3 | 12 | FMO4 | 2 |
| ALDH2 | 12 | FMO5 | 2 |
| CCNE1 | 12 | FOSL1 | 2 |
| CD4 | 12 | FTCD | 2 |
| CYP2C19 | 12 | GCNT3 | 2 |
| CYP2J2 | 12 | GHR | 2 |
| GINS4 | 12 | GLRX | 2 |
| MPV17 | 12 | GSTZ1 | 2 |
| NRAS | 12 | HAAO | 2 |
| NUP155 | 12 | HAMP | 2 |
| NUP93 | 12 | HELLS | 2 |
| PECR | 12 | HGD | 2 |
| CXCL12 | 11 | HMOX1 | 2 |
| FOXO1 | 11 | HPD | 2 |
| IGF1 | 11 | HPX | 2 |
| KIF14 | 11 | HRG | 2 |
| PKM | 11 | HS2ST1 | 2 |
| PTGS2 | 11 | IL1RL1 | 2 |
| SNRPD1 | 11 | IL33 | 2 |
| ACADL | 10 | IL7R | 2 |
| ACAT1 | 10 | ITIH4 | 2 |
| ALDH1A3 | 10 | KMO | 2 |
| ALDH6A1 | 10 | LIPC | 2 |
| BARD1 | 10 | LOX | 2 |
| CCL4 | 10 | MGA | 2 |
| CDK5 | 10 | MMP12 | 2 |
| CYP3A7 | 10 | MTTP | 2 |
| ENPP1 | 10 | MYCN | 2 |
| H2AFX | 10 | NCF1 | 2 |
| HIST1H2BO | 10 | NGFR | 2 |
| HSD17B6 | 10 | NR1I3 | 2 |
| MSH2 | 10 | NTF3 | 2 |
| NUP43 | 10 | PCOLCE | 2 |
| PLG | 10 | PINK1 | 2 |
| RAN | 10 | PSPH | 2 |
| SP1 | 10 | PTDSS2 | 2 |
| ZWINT | 10 | PTPN13 | 2 |
| AAAS | 9 | PYGB | 2 |
| ACAA2 | 9 | RBP1 | 2 |
| ADH1B | 9 | RELN | 2 |
| F12 | 9 | SERPINF2 | 2 |
| H2BFS | 9 | SERPINH1 | 2 |
| HIST1H2BH | 9 | SF3A2 | 2 |
| KIF18A | 9 | SNRPC | 2 |
| KPNA2 | 9 | SOCS2 | 2 |
| PAK1 | 9 | SULT2A1 | 2 |
| SERPINC1 | 9 | TMPO | 2 |
| THBS1 | 9 | ABCA6 | 1 |
| ACAA1 | 8 | ABCB11 | 1 |
| ARRB2 | 8 | ADAM15 | 1 |
| ASS1 | 8 | AGPAT4 | 1 |
| CD247 | 8 | AKAP12 | 1 |
| CD8A | 8 | ALAD | 1 |
| CYP4F2 | 8 | ANK3 | 1 |
| CYP4F3 | 8 | AP1M2 | 1 |
| EHMT2 | 8 | APOF | 1 |
| GPC3 | 8 | ASPH | 1 |
| LMNB1 | 8 | ATAD2 | 1 |
| PLK4 | 8 | ATP1A1 | 1 |
| PTPRC | 8 | CBLC | 1 |
| SDC3 | 8 | CCL16 | 1 |
| SERPING1 | 8 | CCL21 | 1 |
| UBE2S | 8 | CD244 | 1 |
| ZWILCH | 8 | CDKN2C | 1 |
| ACADSB | 7 | CDYL | 1 |
| AKR1D1 | 7 | CHI3L1 | 1 |
| ALDOA | 7 | CIITA | 1 |
| CAD | 7 | CKAP4 | 1 |
| CCL2 | 7 | CLEC4M | 1 |
| CDC25C | 7 | COPS7B | 1 |
| CHAF1A | 7 | CRLF2 | 1 |
| CHD3 | 7 | CYFIP2 | 1 |
| E2F5 | 7 | CYP27A1 | 1 |
| F11 | 7 | DCXR | 1 |
| FPR1 | 7 | DHODH | 1 |
| HSD17B2 | 7 | DHTKD1 | 1 |
| IRAK1 | 7 | DIO1 | 1 |
| MBL2 | 7 | DNAJC6 | 1 |
| PES1 | 7 | DNMT3L | 1 |
| PROC | 7 | DONSON | 1 |
| AACS | 6 | DPT | 1 |
| ABAT | 6 | DPYS | 1 |
| ADRB2 | 6 | ENPEP | 1 |
| AR | 6 | EXOC3 | 1 |
| CBX4 | 6 | EXOC5 | 1 |
| CBX5 | 6 | FBLN5 | 1 |
| CBX8 | 6 | FGF13 | 1 |
| CETP | 6 | FGL2 | 1 |
| CFP | 6 | FKBP10 | 1 |
| COL4A2 | 6 | FOLH1 | 1 |
| COMT | 6 | FXYD1 | 1 |
| DCN | 6 | GCH1 | 1 |
| DSCC1 | 6 | GDNF | 1 |
| E2F6 | 6 | GGT5 | 1 |
| E2F8 | 6 | GNAL | 1 |
| ECHS1 | 6 | GPD1 | 1 |
| FANCG | 6 | GREB1 | 1 |
| FGFR2 | 6 | GRIN2D | 1 |
| HMGCS2 | 6 | GYS2 | 1 |
| HP | 6 | HIST1H2AM | 1 |
| IGFALS | 6 | HIST1H2BE | 1 |
| IGFBP3 | 6 | HMGA1 | 1 |
| KIF18B | 6 | HSPB1 | 1 |
| LCAT | 6 | HTRA2 | 1 |
| LCP2 | 6 | ID1 | 1 |
| LEF1 | 6 | ID3 | 1 |
| LPA | 6 | IFIT1 | 1 |
| MASP1 | 6 | IGFBP2 | 1 |
| MASP2 | 6 | IGFBP4 | 1 |
| MMP1 | 6 | IGFBP6 | 1 |
| MNAT1 | 6 | IHH | 1 |
| PHC1 | 6 | IL13RA2 | 1 |
| PLCB1 | 6 | IL18R1 | 1 |
| RRP9 | 6 | IL18RAP | 1 |
| SHCBP1 | 6 | KAZN | 1 |
| SPC25 | 6 | KCNMB3 | 1 |
| SPDL1 | 6 | KDM8 | 1 |
| SULT1A1 | 6 | KLHL12 | 1 |
| ADH1A | 5 | KLHL2 | 1 |
| ADH1C | 5 | KRI1 | 1 |
| ADH6 | 5 | LHX2 | 1 |
| ALAS1 | 5 | LILRB2 | 1 |
| ALDH1B1 | 5 | LMNB2 | 1 |
| ALPL | 5 | LYVE1 | 1 |
| ASPA | 5 | MEFV | 1 |
| BCL9 | 5 | MGAM | 1 |
| C6 | 5 | MLST8 | 1 |
| C7 | 5 | MMP11 | 1 |
| CENPU | 5 | MRC1 | 1 |
| COL4A1 | 5 | MT1G | 1 |
| COL4A5 | 5 | MT1H | 1 |
| CPS1 | 5 | NEB | 1 |
| CTH | 5 | NFE2 | 1 |
| CXCR2 | 5 | NKG7 | 1 |
| DSN1 | 5 | NMRK1 | 1 |
| EGR1 | 5 | NPHS2 | 1 |
| ENO3 | 5 | NQO1 | 1 |
| F8 | 5 | NR1I2 | 1 |
| FANCF | 5 | NSUN6 | 1 |
| GCDH | 5 | OGDHL | 1 |
| GCKR | 5 | PAFAH1B3 | 1 |
| GIT2 | 5 | PDE2A | 1 |
| GLUD1 | 5 | PDE4B | 1 |
| GNA14 | 5 | PDGFRA | 1 |
| HSD11B1 | 5 | PFDN4 | 1 |
| IL1RAP | 5 | PGAM2 | 1 |
| IL1RN | 5 | PIK3C2G | 1 |
| KLKB1 | 5 | PPAP2B | 1 |
| LAMA3 | 5 | PPCDC | 1 |
| NASP | 5 | PPIH | 1 |
| OTC | 5 | PPL | 1 |
| PON1 | 5 | PRKG1 | 1 |
| SRD5A1 | 5 | PROZ | 1 |
| SRD5A3 | 5 | PTGIS | 1 |
| TEK | 5 | PTH1R | 1 |
| TKT | 5 | PTPRB | 1 |
| WDR46 | 5 | RFX5 | 1 |
| XYLT2 | 5 | ROBO1 | 1 |
| ACLY | 4 | RRAGD | 1 |
| ADAMTS1 | 4 | S100A8 | 1 |
| ADAMTSL2 | 4 | SC5D | 1 |
| ADAMTSL3 | 4 | SCN2A | 1 |
| ALDOB | 4 | SERPINA10 | 1 |
| BGN | 4 | SHBG | 1 |
| BHMT | 4 | SLC10A1 | 1 |
| BHMT2 | 4 | SLC22A1 | 1 |
| C1QB | 4 | SLC27A5 | 1 |
| C1R | 4 | SLC47A1 | 1 |
| C1S | 4 | SMARCAL1 | 1 |
| C8A | 4 | SMYD3 | 1 |
| C8B | 4 | SOX4 | 1 |
| C9 | 4 | SPN | 1 |
| CCR1 | 4 | SPP1 | 1 |
| CDKN2A | 4 | SPTBN2 | 1 |
| CHAF1B | 4 | SQLE | 1 |
| CXCL2 | 4 | ST3GAL6 | 1 |
| DTYMK | 4 | STAB2 | 1 |
| EPHA3 | 4 | STIP1 | 1 |
| FBP1 | 4 | SYNE1 | 1 |
| FOSB | 4 | TBCC | 1 |
| G6PD | 4 | TBCD | 1 |
| GNMT | 4 | TBXAS1 | 1 |
| GSTM1 | 4 | TDO2 | 1 |
| GZMH | 4 | TFR2 | 1 |
| KNG1 | 4 | TPM2 | 1 |
| KNTC1 | 4 | TRDN | 1 |
| MYBL2 | 4 | TREH | 1 |
| PCK1 | 4 | TTR | 1 |
| PIN1 | 4 | USP39 | 1 |
| POLR2K | 4 | VRK1 | 1 |
| PRMT5 | 4 | VSIG4 | 1 |
| RAD51AP1 | 4 | WDR18 | 1 |
| RDH16 | 4 | ZMAT5 | 1 |

**Supplementary Table S5:** Therapeutic targets of *Radix Bupleuri* (196), *Rhizoma Cyperi* (159), and 1110 DEGs of HCC.

|  |  |  |
| --- | --- | --- |
| **HCC DEGs** | ***Radix Bupleuri***  | ***Rhizoma Cyperi*** |
| UPK3A | ACHE | AR |
| CCL20 | AHR | CALM3 |
| MAGEA6 | AKT1 | CDK2 |
| TMEM156 | ALOX5 | CYP1A1 |
| NAT8B | AR | CYP1A2 |
| ECHDC3 | BAX | ESR1 |
| FOSL1 | BCL2 | GSK3B |
| NQO1 | CALM3 | ABCC1 |
| IRAK3 | CASP3 | NOS2 |
| POPDC3 | CHRM1 | PRSS1 |
| TRAT1 | CYP1A1 | PTGS1 |
| C11orf80 | CYP1A2 | PTGS2 |
| DNALI1 | CYP1B1 | NCOA1 |
| GSTM1 | CYP3A4 | PIM1 |
| TMC5 | DIO1 | PPARG |
| AFP | ESR1 | CHEK1 |
| C17orf75 | ESR2 | NCOA2 |
| CHI3L1 | GSTM1 | DPP4 |
| PGAM2 | GSTM2 | CCNA2 |
| SLC47A1 | GSTP1 | MAPK14 |
| DIO1 | HAS2 | CA2 |
| CCL25 | HMOX1 | DPEP1 |
| TBXAS1 | ICAM1 | ESR2 |
| PODXL2 | IKBKB | OLR1 |
| FAP | INSR | RELA |
| ATP13A2 | JUN | XDH |
| VNN2 | MMP1 | NCF1 |
| PTPN22 | NOS2 | PPARD |
| HPGD | PGR | F7 |
| MYC | POLD1 | MAOB |
| ID3 | PPARG | GABRA1 |
| CPT2 | PPP3CA | PYGM |
| PDK4 | MAPK8 | AKR1B1 |
| LEF1 | PRSS1 | GRIA2 |
| ARRB2 | PSMD3 | ACHE |
| NXF3 | PTGS1 | KCNH2 |
| REG3A | PTGS2 | KDR |
| FGFR2 | RELA | RXRA |
| SMPX | SELE | SCN5A |
| PAK1IP1 | SLC2A4 | PDE3A |
| LUM | SLC6A2 | BAX |
| KNG1 | SLPI | BCL2 |
| BANK1 | STAT1 | CASP3 |
| PTGFR | TNF | CASP8 |
| RRS1 | VCAM1 | CASP9 |
| AKR1B10 | XDH | JUN |
| FBXO17 | AKR1C3 | MAP2 |
| IGFBP2 | NR1I2 | PON1 |
| MFAP4 | NR1I3 | PRKCA |
| IL1RAP | AHSA1 | TGFB1 |
| KIAA1731 | F7 | CHRM4 |
| SOAT2 | GABRA1 | DRD1 |
| FKBP10 | PIM1 | NR3C1 |
| PDK1 | MAPK14 | CHRM1 |
| ARHGAP4 | CDK1 | CHRNA2 |
| ABCC2 | NCOA2 | CHRNA7 |
| PDE9A | DPEP1 | CHRM3 |
| CNNM4 | CDK2 | PGR |
| ANGPT2 | ADRA1B | ADRB2 |
| PDE4B | GSK3B | SLC6A4 |
| ADAMTSL2 | CHRM2 | NR3C2 |
| LINC00328 | CCNA2 | OPRM1 |
| COMP | CA2 | ADRA1B |
| ZNF157 | CHEK1 | CHRM2 |
| FER | DPP4 | ADRA1D |
| DKK1 | KCNH2 | APOE |
| ZFP37 | NR3C1 | DHCR24 |
| IHH | NR3C2 | ICAM1 |
| MFSD6 | ADRB2 | SREBF1 |
| COL14A1 | SCN5A | SREBF2 |
| SERPINE1 | NCOA1 | ABCB11 |
| IGFBP4 | ACACA | ADRB1 |
| E2F5 | ACP3 | DRD2 |
| CA9 | PARP1 | DRD3 |
| IGLL3P | AKR1B1 | HTR3A |
| SLC10A3 | BIRC5 | OPRD1 |
| PAK1 | CCND1 | RXRB |
| MYCN | BCL2L1 | SLC6A2 |
| CFHR5 | BMP2 | SLC6A3 |
| CWH43 | CASP8 | ADRA2C |
| LY6G6E | CASP9 | CHRM5 |
| NUP62CL | CAT | AHR |
| CA2 | CAV1 | AKT1 |
| NPHS2 | RUNX2 | ALOX5 |
| MYL10 | RUNX1T1 | CYP1B1 |
| IGF2BP2 | CCNB1 | CYP3A4 |
| COX7A1 | CD40LG | DIO1 |
| FMO5 | CDKN1A | GSTM1 |
| PEG10 | CDKN2A | GSTM2 |
| RBP1 | CHUK | GSTP1 |
| GSTA1 | COL1A1 | HAS2 |
| AOAH | COL3A1 | HMOX1 |
| NECAB2 | CLDN4 | IKBKB |
| SERPINC1 | CRP | INSR |
| MMP12 | CTSD | MMP1 |
| GAS1 | NQO1 | POLD1 |
| GUSBP11 | E2F1 | PPP3CA |
| PRG2 | E2F2 | MAPK8 |
| ALDH1A3 | EGF | PSMD3 |
| KIF18A | EGFR | SELE |
| ID4 | ELK1 | SLC2A4 |
| BHMT2 | ERBB2 | SLPI |
| GIT2 | ERBB3 | STAT1 |
| F13B | F3 | TNF |
| ANGPTL4 | FOS | VCAM1 |
| LAMA3 | GJA1 | AKR1C3 |
| CYFIP2 | CXCL2 | NR1I2 |
| COL4A5 | HIF1A | NR1I3 |
| ASPN | HK2 | AHSA1 |
| TACSTD2 | HSF1 | CDK1 |
| ETV4 | HSPA5 | ABCA1 |
| CES1P1 | HSPB1 | HMGCR |
| TRDN | IFNG | SLCO1B1 |
| PPCDC | IGF2 | ABCG5 |
| APOM | IGFBP3 | ABCG8 |
| ALPK3 | IL1A | LTA4H |
| RAD54B | IL1B | MAOA |
| SSX1 | IL2 | CTRB1 |
| RAB38 | IL6 | PLAU |
| HIST1H2BH | CXCL8 | ADRA2A |
| APCS | IL10 | ADH1C |
| PLG | CXCL10 | HTR2A |
| CCDC144A | IRF1 | ADRA1A |
| COL5A3 | EIF6 | GABRA3 |
| SSSCA1 | MAOB | ADCY2 |
| ZNF696 | MMP2 | XIAP |
| TNFSF14 | MMP3 | BIRC5 |
| ENPEP | MMP9 | APP |
| IL1RN | MPO | CCND1 |
| BCAT1 | MYC | BCL2L1 |
| SCN2A | NFE2L2 | CASP7 |
| GREM2 | NFKBIA | CCNB1 |
| SV2B | NKX3-1 | CD40LG |
| TFPI2 | NOS3 | CDK4 |
| ASPH | ODC1 | CDKN1A |
| GREB1 | SERPINE1 | EGFR |
| GRIN2D | PCOLCE | ERBB2 |
| DOCK2 | PLAT | IFNG |
| DUOX2 | PLAU | IL2 |
| KCNE1L | PON1 | IL4 |
| NFE2 | POR | IL6 |
| CFD | PPARA | IL10 |
| CGREF1 | PPARD | MCL1 |
| BGN | PRKCA | MDM2 |
| SPAG4 | PRKCB | MET |
| HIST1H2AM | MAPK1 | MMP2 |
| NCF1 | MAPK3 | MMP9 |
| LAMA2 | PTEN | NFKBIA |
| RUNDC3B | PTGER3 | PCNA |
| GSTA3 | RAF1 | MAPK1 |
| ADAMTS1 | RASA1 | MAPK3 |
| SRD5A3 | RB1 | RB1 |
| SMARCAL1 | RXRA | TOP1 |
| MUC6 | CCL2 | TOP2A |
| MMP1 | CXCL11 | TP53 |
| CFHR2 | SOD1 | TYR |
| C1QB | SOD3 | VEGFA |
| ERCC6L | SPP1 | PTGES |
| FHL5 | SULT1E1 | NUF2 |
| IGLJ3 | TGFB1 |  |
| CXCL2 | THBD |  |
| KCNMB3 | TOP1 |  |
| AKAP12 | TOP2A |  |
| OR1E1 | TP53 |  |
| ZCWPW1 | VEGFA |  |
| SDS | DCAF5 |  |
| GPR20 | MGAM |  |
| SLC1A1 | ABCG2 |  |
| MCOLN3 | NPEPPS |  |
| SLC17A3 | ACAA2 |  |
| RIBC2 | RASSF1 |  |
| GHSR | CHEK2 |  |
| FOXRED2 | DUOX2 |  |
| MGAM | HERC5 |  |
| HIST1H2BO | NCF1 |  |
| ANO1 | ABCA1 |  |
| APOA4 | HMGCR |  |
| MEG3 | SLCO1B1 |  |
| CYP4F3 | ABCG5 |  |
| MNX1 | ABCG8 |  |
| PTGIS | LTA4H |  |
| GMDS | MAOA |  |
| FOXE1 | CTRB1 |  |
| PHC1 | SLC6A3 |  |
| ZNF532 | ADRA1D |  |
| SLC4A2 | CHRNA7 |  |
| AP1M2 | ADRB1 |  |
| PYGB | ADRA2A |  |
| ASIC1 | CHRM3 |  |
| IL1RL1 | OLR1 |  |
| WDR18 | PYGM |  |
| PSPH | GRIA2 |  |
| RNF41 | ADH1C |  |
| AGXT | HTR2A |  |
| G0S2 | ADRA1A |  |
| SLC2A2 | GABRA3 |  |
| DUSP4 |  |  |
| TPD52L2 |  |  |
| SLC17A2 |  |  |
| MBNL2 |  |  |
| KLHL12 |  |  |
| TFPI |  |  |
| SVEP1 |  |  |
| SLC37A1 |  |  |
| DNAJB6 |  |  |
| CD320 |  |  |
| DPYS |  |  |
| IGLV1-44 |  |  |
| LGALSL |  |  |
| MXRA5 |  |  |
| PIN1 |  |  |
| PPL |  |  |
| TRIM22 |  |  |
| TSKU |  |  |
| LIPC |  |  |
| TMOD3 |  |  |
| APOL2 |  |  |
| ALDH1L1 |  |  |
| AGPAT4 |  |  |
| GIMAP6 |  |  |
| HMGCS2 |  |  |
| NOL8 |  |  |
| PTPRC |  |  |
| SLC6A6 |  |  |
| PCTP |  |  |
| ZBTB6 |  |  |
| GPR6 |  |  |
| FBLN5 |  |  |
| IL7R |  |  |
| FNDC4 |  |  |
| HRSP12 |  |  |
| ZNF385D |  |  |
| SLC27A2 |  |  |
| RGP1 |  |  |
| BTBD3 |  |  |
| PTPN13 |  |  |
| GLUD1 |  |  |
| TRIM16 |  |  |
| ZNF580 |  |  |
| AASS |  |  |
| HSD17B6 |  |  |
| CIITA |  |  |
| AIF1 |  |  |
| ALG12 |  |  |
| TKT |  |  |
| SLC38A4 |  |  |
| ZFHX3 |  |  |
| ZMAT5 |  |  |
| SNX17 |  |  |
| EPHA3 |  |  |
| PRMT5 |  |  |
| TWSG1 |  |  |
| ALDOB |  |  |
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| MYO1F |  |  |
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| HS2ST1 |  |  |
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| ACLY |  |  |
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| FAM134B |  |  |
| LCAT |  |  |
| C1orf112 |  |  |
| RALY |  |  |
| ETFDH |  |  |
| GPD1 |  |  |
| RRM2 |  |  |
| WSB2 |  |  |
| NDRG2 |  |  |
| KCNN2 |  |  |
| CD14 |  |  |
| PBK |  |  |
| ACSM5 |  |  |
| HMGCL |  |  |
| HMGA1 |  |  |
| MAN1C1 |  |  |
| ACSL4 |  |  |
| TUBG1 |  |  |
| CNIH4 |  |  |
| MCM3 |  |  |
| ST3GAL6 |  |  |
| RFC4 |  |  |
| SMYD3 |  |  |
| TPX2 |  |  |
| CXCL12 |  |  |
| CEP55 |  |  |
| GPM6A |  |  |
| GSTZ1 |  |  |
| ZNF706 |  |  |
| SRPX |  |  |
| LILRB5 |  |  |
| ABAT |  |  |
| EXPH5 |  |  |
| APOF |  |  |
| FANCG |  |  |
| KPNA2 |  |  |
| CENPM |  |  |
| C1QTNF1 |  |
| CXCL14 |  |  |
| ECT2 |  |  |
| E2F8 |  |  |
| H2AFZ |  |  |
| ESM1 |  |  |
| CDKN3 |  |  |
| CYP2A6 |  |  |
| CDC20 |  |  |
| MYBL2 |  |  |
| STARD5 |  |  |
| HBB |  |  |
| MT1H |  |  |
| PTTG1 |  |  |
| MT1G |  |  |
| FYN |  |  |
| SPDL1 |  |  |
| SRD5A2 |  |  |
| ADD2 |  |  |
| KLKB1 |  |  |
| GMNN |  |  |
| MCM4 |  |  |
| CCNB2 |  |  |
| EZH2 |  |  |
| CCNB1 |  |  |
| CDHR2 |  |  |
| KIF14 |  |  |
| SORL1 |  |  |
| SPP2 |  |  |
| KIF4A |  |  |
| CRHBP |  |  |
| UBE2M |  |  |
| MASP2 |  |  |
| MT1F |  |  |
| MAD2L1 |  |  |
| ACAA1 |  |  |
| CYP2A7 |  |  |
| SERPINH1 |  |
| PLVAP |  |  |
| CYP26A1 |  |  |
| ILF2 |  |  |
| NDC80 |  |  |
| ECM1 |  |  |
| STAB2 |  |  |
| CETP |  |  |
| SPINK1 |  |  |
| ASPM |  |  |
| CYP2B6 |  |  |
| HN1 |  |  |
| HAMP |  |  |
| HSPB1 |  |  |
| ADRA1A |  |  |
| CYP39A1 |  |  |
| CDCA3 |  |  |
| RACGAP1 |  |
| PRC1 |  |  |
| CDH19 |  |  |
| LYVE1 |  |  |
| COLEC10 |  |  |
| PLAC8 |  |  |
| IGFALS |  |  |
| FCN2 |  |  |
| PTH1R |  |  |
| DBH |  |  |
| SAC3D1 |  |  |
| CDK1 |  |  |
| CPEB3 |  |  |
| DNASE1L3 |  |
| F11 |  |  |
| FEZ1 |  |  |
| MELK |  |  |
| FCN3 |  |  |
| TOP2A |  |  |
| CDC37L1 |  |  |
| NUSAP1 |  |  |
| ENAH |  |  |
| CD5L |  |  |
| ESR1 |  |  |
| CYP1A2 |  |  |
| NAT2 |  |  |
| KIF20A |  |  |
| VIPR1 |  |  |
| MARCO |  |  |
| CFP |  |  |
| CLEC1B |  |  |
| FOXM1 |  |  |
| CLEC4M |  |  |
| FAM189B |  |  |