The specific information of GO and KEGG pathway functional enrichment analysis of tar-DEmRNA												
Category	Term	Count	Percent	*P* value	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	GO:0005829~cytosol	531	30.1020	0.0000	TES, SERPINE2, WIPF3, RAPH1, FNBP1L, RPL8, GLS, AS3MT, CREB3L3, ZMIZ1, PPP4R4, WDR91, STMN1, BBX, PLCE1, MLYCD, IER3, SULT2A1, SDS, STARD5, PRKCB, AFAP1, CLPX, RUFY1, NUP93, AR, MTHFD1, MAP1B, MAP1A, MYL3, PRKD1, ATF5, IDO2, UBA52, MYL9, GNE, NUP205, MTMR2, CDCA3, PRKDC, SAR1B, SHMT1, HSPA4L, ENDOD1, IQGAP1, THY1, SDSL, ADH7, IQGAP2, SKA3, MTMR7, ABR, ADH4, TTPA, PRKAR2A, PDGFC, PNPO, CEP72, HAO1, ZNF146, BTF3, LRBA, STARD10, LARP4, PRDX6, EHD2, EHD3, UCK2, BHMT, EIF5, ADI1, TOLLIP, PAH, PPT1, GTF2IRD1, CPEB3, GABRB2, MTMR10, QPRT, STON2, PHF7, GLI3, CHAF1B, MECOM, AIFM1, PEA15, IKBKG, TEAD2, DLGAP5, CEP68, ANXA2, SIRT5, NUTF2, PGM2L1, GPRC5B, BDH2, RILPL1, DPYD, PLIN4, GAS2, RGN, PLIN3, PLIN2, MOCS1, PLIN5, RAPGEF4, RPL10, RPL12, CENPA, LMAN1, CHN2, CHN1, RPS3, USP1, MFN2, CHML, GSN, PKLR, GK, GLYCTK, FABP1, CENPF, ABI2, CENPI, AGBL2, CENPL, CCDC6, CENPM, MSRB3, NCAPD2, CDKN3, RAB3B, PECR, RPL10L, FAM13A, FGF1, RPL10A, CLU, DACH1, GYG2, EPM2A, RPS9, TPM4, SWAP70, TUBA4A, ARMCX3, C1ORF116, CACNB3,	1703	5477	20472	1.1655	0.0122	0.0006	0.0005

					RAB31, FSCN1, SLC27A2, DGKI, FKBP5, NSMAF, PFKFB1, DLX1, PFKFB3, SHC3, FBLIM1, UAP1, RASAL2, AK5, KLC2, ORC1, BTBD3, PGK1, SMYD2, PLXNA1, HACL1, SRGAP1, MDN1, NADK, CD163, OSBPL6, OSBPL3, STYX, FANCC, MCC, FBXO32, BMX, FBXO31, ADCY10, CNOT6, DAB1, NBEA, ARPC2, P4HA2, SPIRE1, ACO1, NIT2, SERINC5, ARHGAP11A, ARHGAP11B, SH2D4A, FLT3, LECT2, BICD1, FTCD, ALAD, PPP1R13L, DDI2, ITGAV, DNM1L, HGFAC, NKX3-1, ACTR3, PLEKHG2, HMGCS1, SGIP1, CKAP2L, SIGMAR1, SORD, APOA1, RPL13A, KCNAB1, NGF, SYNPO2L, PCCA, DNAJC6, TRAF5, RPL37A, PCCB, ANG, DNAJC9, BCAT1, DTL, FXN, ASPA, SEC23A, SRC, SRI, MLLT3, EHBP1, C15ORF39, RAB23, CDC37L1, TRIM47, FYN, PCBD1, RBBP7, TRIM45, CYB5A, PRRX1, MMAA, CDC42BPG, AKR7L, PTPN13, MYO19, PML, MYO16, DHODH, RAB10, RAB14, PRC1, CTH, ALDH8A1, PFKM, MMACHC, PFKP, PTPN3, APP, ERRFI1, PANK1, NUDT1, CCT6B, RPS15, RPS6KA6, TCL1A, RPS19, RPL18A, CHEK1, CHAC2, SEPHS2, B2M, PDK2, COG3, GOLPH3L, CMBL, CSNK1E, TIAM2, TIAM1, MT1A, PPP1R3C, KCTD10, CD109, TTLL11, ALDH7A1, CES3, STX1A, EPAS1, MYL12A, TTBK1, SEC14L2, RACGAP1, SNX9, ASL, RIMKLA, APOB, N4BP2, SPTBN2, SRPK2, WWTR1, CDT1, XBP1, SS18L1, RCC2, SURF4, IQSEC3, SH2D1B, LIF, CIDEB, MYO5A, ZWINT, DERA, NET1, CCT6A, MSRA, HAL,							

					WNK2, WNK3, CORO7, RPS24, RPS23, GBE1, KIF14, KIF11, LARP1B, KHK, AKAP12, SH3PXD2A, NKIRAS1, GNPNAT1, CTSH, BBS7, CLIC2, BHMT2, KIF23, RHOC, RHOB, ENAH, UGDH, CEACAM7, VSNL1, KIF2A, PACS1, PITPNM2, PABPC3, TAX1BP3, ALDOB, PABPC1, ALDOA, MAPRE1, PTMA, DYNC1I2, ADH1B, HAAO, AKR1D1, PRICKLE1, NT5E, RXRA, PNMA1, MTHFD1L, PDPN, CTNNA1, CTNNA3, LCMT1, DCPS, XDH, NQO2, MAP3K1, GCH1, AKR1C4, NUDT7, ITCH, GSTA5, NEDD4, RAB9B, SPC24, MAD2L1, GDA, DENND5B, RASEF, NRL, PEBP1, TTF2, GIMAP6, ETS2, CNDP1, ACTG1, ARHGAP44, CCND2, FAM162A, RGS1, KIF5B, FPGS, WWC3, CAPN2, CAPN3, KNTC1, ACAA1, SH3GL2, ANXA11, CASK, ACOT13, KCTD1, MAT1A, RPGRIP1L, KMO, ALDH3A2, SLFN12, CCNE2, KIF16B, SHPK, CHMP4C, ELMO1, MASP1, PPIA, IDI1, COX19, KLHL14, ARHGEF26, ACACB, NDRG1, CAMSAP2, ARHGAP22, ARHGAP20, NLRP6, KIF3A, NPHP1, MYH11, ECT2, CNTLN, SPECC1, IVNS1ABP, SMAD3, EPHX2, HSPA6, MSN, GGH, TRPV1, ARHGAP27, ESR1, SYT7, PAN2, QDPR, GRHPR, SEPSECS, GCLC, AMACR, HOOK2, DLG3, NAT2, KIF4A, PXMP2, CRYL1, GPSM2, KDM5B, DYRK2, PDE3B, SLC2A1, PCTP, SLC2A4, PPP1R9A, RERG, HK2, PITPNC1, HK1, GHR, CA1, SPRED1, UBE2Q2, CASP2, HORMAD2, NOS1, YWHAH, ARHGEF10, KLF12, ARHGEF12, PLA2G4D, ARHGEF17,						

					SPATS2, ABHD14B, SSTR2, YWHAZ, DCK, CCNA2, ARHGAP10, PSRC1, DDAH1, ACOX1, PEX3, TMEM216, RASA1, EHHADH, CAT, CHMP3, MYH9, ITGB1BP1, ACOX3, MCTP2, ITGB3BP, PAOX, PAPPA2, FAM72A, CAMK2B, DCTN5, DDC, MVK, HPGD, USP12, CYTH3, PDLIM3, PDE11A, CBS, REPS2, NCAM1, POLQ, RRM2, FAHD1, CMTM3, CADPS, CCS, GNPDA2, ALOX5AP, RGS10, AQP11, CDK2AP1, VIM, PDE7B, LPIN2, RAN							
GOTERM _CC_DIRECT	GO:0005886~plasma membrane	530	30.0454	0.0000	TES, TFRC, GLDC, RAPH1, MRGPRF, FZD10, FNBP1L, CLDN2, EPS8, GJA1, SCN11A, LIPH, PLCE1, PRKCB, UNC5B, SOX11, HSPG2, SYTL4, FCAMR, AR, MAP1B, TYRO3, AGTR1, PRKD1, UBA52, ENPEP, TTYH3, LYPD1, SLCO5A1, IQGAP1, THY1, ADH7, SLC30A10, IQGAP2, GJC1, FAM171A1, C6, C7, PRKAR2A, KCNMB1, PDGFC, SLC19A3, RHBDL2, SLC19A2, ABCA1, FZD1, JAG2, ST14, JAG1, ABCA5, FZD4, CADM2, ABCA6, ABCA3, MCAM, LRBA, FZD6, RDX, SLC16A10, VANGL1, EHD2, CYP2C9, EHD3, CYP2C8, EIF5, ADI1, GPR182, FXYD6, FAT4, XKR4, CPEB3, CDC42SE2, GABRB3, GPR27, GABRB2, GABRB1, SIGLEC9, FMN1, PHF7, SLC6A1, ABCC11, OLR1, HAVCR1, CEP55, GPR37, ANXA2, ANXA3, FCRL6, KCND3, GPR35, EMP1, F2, F3, F7, BACE2, F8, TMEFF2, CD200R1, GPRC5B, F9, MRAS, MMP16, RILPL1, PLIN4, PLIN2, RAPGEF4, ADCY1, ABCB11, SLC7A1, ADAM28, TMEM65, EPCAM, RPS3, STX3, LDLR, JAM2, GPR157, BCHE, SLC16A1, GSN, KCNB1, F11, SULF1, PLXDC1,	1703	5066	20472	1.2576	0.0000	0.0000	0.0000

					SLCO4C1, PLP1, ANKS4B, SIGLEC1, SLC28A2, AGRN, CHRM2, KCNG1, RAB3B, ATP8A1, TUSC3, RAB3D, RTKN2, GUCA1B, IL1RAP, LAPTM4B, IYD, SLC39A1, SLC16A3, PCDHAC2, PHLDA3, EPM2A, SLC38A1, KCNH4, SWAP70, DISP2, C1ORF116, CLEC4C, MELK, RAB31, LGSN, PKP2, PKP3, RHCG, SLC27A2, CLEC4G, DGKI, IFNAR1, SLC26A2, SHC3, SLC26A1, CCDC25, GPR88, ABHD6, UAP1, LIN7A, ITPR3, CYP2C19, KLC2, SLCO1B3, PLXNA1, TNFRSF14, NPTX1, DRD1, CD300LG, MPDZ, PLXNA3, CD163, OSBPL6, HTR1F, CD160, OSBPL3, SLC4A10, MCC, BMX, PTPRD, PTPRB, NBEA, ITGA10, ITGA11, SPIRE1, SERINC5, ITGB1, FLT3, ADRA1D, TREM2, FTCD, KIAA1549, ATP7B, CNGA1, PMEPA1, ITGB8, ITGAV, NEO1, SLC13A3, TRPC4, SGIP1, COL25A1, ITGA3, ITGA2, TNFRSF19, APOA1, RTN4RL2, KCNAB1, ATRN, PTP4A3, ADORA2B, NRG4, ITGA8, DNAJC9, DSG2, SMPDL3B, SLC47A1, SRC, ATP10B, LRP8, EHBP1, RAB23, FYN, CNNM4, KCNJ3, NLGN4X, ANGPT2, KCNJ10, KCNJ8, PCDH9, KCNJ12, SEMA4F, PTPN13, SORL1, MYO16, RAB10, MYO1E, P2RX6, FRAS1, RAB14, PRC1, SYT10, IL2RA, FCGR2B, MDGA2, KCNK2, KCNK4, PTPN3, RSC1A1, APP, SLC23A2, ERRFI1, VIPR1, SLC46A1, OXTR, SPARC, IL23R, AQP9, NUDT1, AQP7, EDNRA, EDNRB, KDR, B2M, PTGDR, MFSD2A, ACVR1, SLC34A2, EPHA4, ENTPD1, IL1R1, COG3, ACSL5, ACSL4, TM4SF5, HLA-A, TMEM170B,							

					FNDC5, BTC, TIAM1, MIP, CD109, KCNQ3, STX1A, GPM6A, NRN1, TSHZ3, GYPC, PCDH10, TMEM63C, SDC2, SLC22A2, DCUN1D3, SLC22A1, LPAR2, CD1D, APCDD1, NKAIN2, NEU4, NAALAD2, SNX9, KCNN3, APOB, SPTBN2, TNFSF18, WWTR1, TNFSF15, RCC2, SURF4, GDF5, MSRA, VNN1, CD209, WNK2, ITGBL1, SDC1, SLC22A7, CALM2, TDGF1, DDR1, ROBO4, DIRAS2, KIF14, SLC7A11, SLC7A10, SIPA1L3, C8A, CX3CL1, EDA2R, AKAP12, CD36, CLIC2, CD34, RALGPS1, CAP1, MME, GFRA1, AVPR1A, RHOC, GFRA2, RHOB, LAT2, ENAH, CEACAM7, CEACAM6, CLDN18, TLR7, TAX1BP3, RHOV, CD47, TLR5, TLR4, ADH1B, SLC43A1, CXCR4, LILRA1, DRP2, NT5E, PERP, PDPN, ORMDL3, CTNNA1, GPC5, PTCHD3, CD59, GPC4, CD58, MICA, MPZL1, MPP3, GABBR1, SLC31A1, LHFPL5, LHFPL2, LYVE1, ITCH, XK, GPAM, KCNS1, NEDD4, RAB9B, IL18R1, KLB, STEAP3, STEAP4, CELSR1, ETS2, ACTG1, PLAU, RGS1, DUOXA1, CAPN2, SIRPA, CAPN3, KNTC1, IL6R, ENPP5, CA14, SH3GL2, ENPP7, PDGFRB, ABCG8, DSCAM, MMGT1, SPNS2, NPY1R, CASK, ATP1B3, SLC30A1, LIFR, RPGRIP1L, ATP1B1, GPRIN2, DOK7, CHMP4C, ELMO1, CERCAM, RELL2, ABCG2, RASL12, CHRNA5, CHRNA4, NPR1, SLC41A2, NTM, CHRNA6, SLC1A2, SLC41A1, LPL, ADRB2, CACNA1C, SEZ6L2, NDRG1, NALCN, ADIPOR2, ENHO, SCUBE1, NLRP6, PODXL, SMAD3, CAV2, CAV1, HSPA6, CRIM1,							

					MSN, TRPV1, SYT9, ESR1, SELE, SYT8, SYT7, SLC2A9, GNAO1, EFNA3, AMACR, DLG3, DLG5, ALPL, CNTN2, NMUR1, KLRD1, BMPR1A, GPSM2, SLC2A1, SLC2A2, SLC2A4, LDB2, RND2, RND3, RERG, HK2, GHR, MFSD6, SPRED1, HEPH, BDKRB2, NOS1, YWHAH, FGB, NPY5R, GLP2R, FGG, ABCC9, SSTR1, SSTR2, ARHGAP10, GAP43, RER1, RASA1, CAT, CDH11, CHMP3, MYH9, CDH13, ITGB1BP1, SCN4A, CDH19, HCN3, RGS17, OR1E1, NRXN3, ASAP2, CLCN3, ATP2C1, AGPAT2, AGPAT3, CYTH3, ACVR1C, CNR2, S1PR1, REPS2, RGS20, NCAM1, NCAM2, TPBG, ATP2B2, RGS10, AQP11, VIM, TEK							
GOTERM_CC_DIRECT	GO:0005737~cytoplasm	530	30.0454	0.0001	TES, PID1, FZD10, FNBP1L, RPL8, PTPDC1, EPS8, GJA1, UBASH3B, ZMIZ1, PPP4R4, AKT3, STMN1, RAVER2, MLYCD, SULT2A1, WDHD1, PRKCB, RUFY1, AR, MAP1A, PRKD1, IDO2, UBA52, MYL9, PRR11, GPLD1, GNE, MTMR2, ENPEP, LXN, SHMT1, HSPA4L, IQGAP1, ADH7, IQGAP2, MTMR7, ADH4, CYP2B6, PRKAR2A, NRBF2, BARD1, BTF3, DNAH11, FUCA1, RDX, MEX3C, A1CF, BTBD10, PRDX6, COL1A1, EHD2, CYP2C9, EHD3, UCK2, CYP2C8, EIF5, ADI1, TOLLIP, PKIA, GIPC2, CPEB3, CDC42SE2, PYGB, LRRC34, WDR47, GABRB1, MTMR10, QPRT, WDR41, FMN1, STON2, EVPLL, CSAD, LRRC2, GLI3, CHAF1B, DSTYK, HEY1, AIFM1, PEA15, IKBKG, DLGAP5, CEP55, ZNF365, SERPINB4, GPR37, ANXA2, ANXA3, DUSP1, TCF12, SERPINB7, BDH2, RILPL1, DPYD, RGN, RARB, PLIN3, PLEKHO1, PLIN5,	1703	5570	20472	1.1438	0.0905	0.0034	0.0032

					RPL12, ADCY1, AFP, PTGS1, LMAN1, FGD6, SRPX2, FRZB, RPS3, CHML, ANKIB1, GSN, PKLR, GLYCTK, PLXDC1, HIPK2, HEYL, CENPF, ABI2, MSRB3, NCAPD2, ZNF578, CDKN3, RAB3B, CLEC4M, RTKN2, FAM107A, FGF1, RPL10A, CLU, ALDH1L2, CDC14B, SALL1, DACH1, CFL2, TUBB1, NUDT16, GYG2, PHLDA3, EPM2A, RPS9, SWAP70, IPMK, MITF, THNSL1, TUBA4A, MOB3B, CLIP2, C1ORF116, CACNB3, MELK, MAF, LGSN, PKP2, FSCN1, ERG, PKP3, DGKI, FKBP5, NSMAF, FBLIM1, GPR88, AK3, AK4, ITPR3, AEBP1, AK5, CYP2C19, GLIS2, KLC2, BTBD3, SMYD2, SRGAP1, MPDZ, BDNF, CCDC14, STYX, FANCC, MCC, FBXO32, CYP4F12, HOPX, REEP1, ADCY10, CNOT6, DAB1, ARPC2, ALB, RCAN3, RNF182, ACO1, NIT1, MAP3K13, NES, ITGB1, BMP10, SH2D4A, LECT2, DUSP18, FTCD, SYNE1, ARL5B, LBH, SCRN1, SGCB, PPP1R13L, ACP6, DNM1L, CCDC38, ACTR3, HMGCS1, SGIP1, DNMT3A, RPL13A, KCNAB1, PTP4A1, ATRN, PTP4A3, EVC, DNAJC6, TRAF5, RPL37A, DNAJC9, BCAT1, MCM2, SRC, CCDC69, TYRP1, TTK, SRI, DRAM1, RAB23, CDC37L1, TRIM49, MMAA, CDC42BPG, MACC1, AKR7L, PTPN13, USH2A, MYO19, SGCZ, PTPN14, BICC1, PML, MYO16, MYO1E, P2RX6, RAD51, PRC1, CTH, CD248, NAGS, PFKM, MMACHC, PFKP, PTPN3, DMGDH, APP, SLC23A2, ERRFI1, SLC46A1, SPARC, PANK1, HHIP, PLEKHB1, NUDT1, AQP7, RPS15, RPS6KA6, RPS19,							

					PPP2R1B, RPL18A, C7ORF31, CHEK1, CHAC2, ACAD11, SEPHS2, SOX4, EPHA4, LIMCH1, MTUS2, ACSL4, CSNK1E, SFRP4, MT1A, CYP2U1, SIK2, TRIM10, INTU, EPAS1, DCUN1D3, LPAR2, CD1D, MYL12A, TTBK1, SEC14L2, SEC14L3, NEU4, SNX9, ASL, KCNN3, RIMKLA, APOB, MAP9, SRPK2, APOBEC3C, WWTR1, EGR1, XBP1, APOBEC3F, TMEM50A, XRCC2, RANBP17, IQSEC3, MYO5A, ZWINT, DERA, CCT6A, MSRA, CD209, FUBP1, WNK2, WNK3, ID4, FBXL2, CALM2, RPS24, RPS23, INVS, CLIC5, GBE1, KIF11, SIPA1L3, KHK, AKAP12, SH3PXD2A, HNF4A, CD36, CLIC2, LMCD1, CD34, RALGPS1, CAP1, IL11, MME, KIF23, KIF6, MTSS1, CTTNBP2NL, ENAH, KIF2A, PITPNM2, CNKSR3, PABPC3, TLR7, TAX1BP3, PABPC1, FAM20A, TLR4, DYNC1I2, HAAO, CXCR4, PRKX, CST8, RGPD1, PBLD, SCEL, SH3BGRL, RANBP3L, PNMA1, CYP2A13, CTNNA1, CTNNA3, MAP4K5, DCPS, MAP4K3, MICA, GINS1, ARNT2, GABBR1, MAP3K1, GCH1, GINS4, DDTL, AKR1C4, ITCH, NEDD4, KIF26B, CAMK4, CCNG2, PNPLA3, EPPK1, CAPS, MAD2L1, STEAP3, RASEF, NRL, ARHGAP44, PAIP2B, CCND2, KIF5B, FPGS, CAPN5, WWC3, CAPN2, CAPN3, KNTC1, SH3GL2, PDGFRB, ANXA11, CASK, SLC30A1, RPGRIP1L, ALDH3A2, SLFN13, CCNE2, KIF16B, SHPK, ELMO1, PPIF, PPIA, IDI1, KLHL14, GSTCD, CACNA1C, NDRG1, CAMSAP2, FAM83H, RAI1, NLRP6, PODXL, KIF3A, SNTG1, NPHP1,							

					MYH11, LONRF3, GAS2L1, ECT2, FAM83B, CNTLN, SMAD3, HSPA6, MSN, TDRD6, ARHGAP27, ESR1, SYT8, QDPR, TDRD1, GRHPR, SEPSECS, AMACR, HOOK2, DLG5, KIF4A, PXMP2, TCF3, FGF12, GPSM2, DYRK2, SLC2A2, PPP1R9A, PITPNC1, RBM3, CA1, NUP62, ZIC1, CASP2, NOS1, YWHAH, ARHGEF12, NPY5R, SPATS2, ABHD14B, C4ORF46, NAV1, SSTR1, YWHAZ, DCK, CCNA2, GAP43, PSRC1, RASA1, CAT, CDH11, MYH9, CDH13, ITGB1BP1, ITGB3BP, CAMK2B, RGS17, COLEC10, DDC, MVK, HPGD, ANKS3, LEF1, ASAP2, RMND5A, CNR2, CBS, CLMN, TBX20, S1PR1, REPS2, RGS20, SPOCK1, SLIT2, MTA3, PDLIM4, DNAI1, TRDMT1, CMTM8, CMTM3, BNIP3, ATP2B2, NAP1L1, SHCBP1, CCS, GNPDA2, RGS10, AQP11, CDK2AP1, GALM, VIM, TEK, SSBP2, SNTB1, RAN							
GOTERM_CC_DIRECT	GO:0016021~integral component of membrane	516	29.2517	0.0001	TFRC, MRGPRF, XYLT1, FZD10, CLDN2, GJA1, GJA3, CREB3L3, GJA5, LRAT, IER3, UNC5B, FCAMR, AR, GPR161, TYRO3, AGTR1, FAR1, IDO2, ENPEP, SLCO5A1, SLC30A10, HSD11B1, GJC1, FAM171A1, AGMO, SLC19A3, ST3GAL6, RHBDL2, SLC19A2, ST3GAL3, ABCA1, LRRC37A3, FZD1, B3GALNT2, B3GALNT1, JAG1, ABCA5, CADM2, ABCA6, ABCA3, MCAM, LRBA, FZD6, CYP4F3, ABCA9, ERLIN1, TMEM192, SLC16A10, NETO2, COL1A1, CS, VANGL1, GPR180, GPR182, FXYD6, SFXN2, FAT4, XKR4, SFXN5, GABRB3, HRK, GPR27, GABRB2, GABRB1, NRSN1, SIGLEC9, TMEM53, SLC6A1,	1703	5406	20472	1.1474	0.0879	0.0034	0.0032

					LRRC32, ABCC11, PIGV, AIFM1, C1QTNF6, OLR1, HAVCR1, MAMDC4, KCND3, GPR35, PRSS16, EMP1, SLC39A13, ELOVL6, ELOVL7, F3, BACE2, F8, TMEFF2, CD200R1, GPRC5B, MMP13, ADCY1, ABCB11, SLC7A1, TMEM165, LMAN1, MYCT1, ADAM28, TMEM65, EPCAM, TMEM67, MFN2, CHML, METTL7A, SLC17A8, STX3, SLC17A2, LDLR, JAM2, GPR157, BCHE, SLC16A1, GOLM1, ATRNL1, KCNB1, FMO3, PLXDC2, PLXDC1, RNF145, TMCO6, LPCAT3, PLP1, SIGLEC1, AGRN, CYB561, CHRM2, KCNG1, CLEC4M, ATP8A1, TUSC3, IL1RAP, CDC14B, TM7SF2, LAPTM4B, IYD, FADS6, LEPR, SLC25A42, SLC39A1, SLC16A3, PCDHAC2, UGT2B10, SLC38A1, UGT2B11, TAP1, SYPL2, ARMCX3, DISP2, CLEC4C, FRMD5, ARMCX2, SYPL1, PKP2, ADAM9, SLC27A3, FAM8A1, SLC27A2, CLEC4G, IFNAR1, SLC26A2, SLC26A1, INSIG1, ABHD6, ITPR3, VTCN1, SLCO1B3, UGT3A2, TNFRSF14, CD300LG, CD163, C3ORF80, SRD5A1, BDNF, SLC4A10, CYP4F12, FBXO31, REEP1, PTPRD, ADCY10, PTPRB, ITGA11, RNF182, REEP6, DHCR7, SERINC5, ST6GALNAC1, FLT3, ADRA1D, TREM2, SYNE1, KIAA1549, ATP7B, SGCB, CNGA1, C3ORF52, PMEPA1, SLC37A3, GAL3ST4, SLC13A3, TRPC4, COL25A1, SIGMAR1, TNFRSF19, GPX8, KCNAB1, SLC25A15, EVC, ADORA2B, NRG4, UGT2B4, TRIM59, SLC25A10, DSG2, ST6GALNAC3, SLC47A1, SMPX, FRRS1, SEMA3D, TYRP1, ATP10B,							

					CYP3A5, LRP8, DRAM1, MAL2, E2F5, CNNM4, SLC25A24, KCNJ3, CYB5A, NLGN4X, KCNJ10, SLC35A3, KCNJ8, RNF24, PCDH9, KCNJ12, TIE1, MBOAT2, SEMA4F, USH2A, SORL1, SGCZ, DHODH, P2RX6, FRAS1, SYT10, IL2RA, CD248, FCGR2B, MDGA2, SLC24A5, SLC25A33, KCNK2, SLC25A36, KCNK4, APP, SLC23A2, FAAH, VIPR1, SLC46A1, OXTR, PLEKHB2, IL23R, PLEKHB1, AQP9, AQP7, ZDHHC7, EDNRB, PTGFRN, PTGDR, ARL6IP6, MFSD2A, ACVR1, SLC34A2, ARSA, EPHA4, ENTPD1, ATP6V0E1, PAQR4, IL1R1, ACSL5, ACSL4, TM4SF5, HLA-A, CSNK1E, TMEM170B, RUNX1, MFSD10, FNDC5, CYP39A1, BTC, CCDC80, CYP2U1, MIP, KCNQ3, KDELR3, STX1A, CDS1, TMEM185B, SLC45A4, GPM6A, IGSF3, SLC35D1, PCDH10, TMEM63C, SDC2, SLC22A2, SLC22A1, SLC35D2, LPAR2, CD1D, APCDD1, UBE2J1, NKAIN2, SEC14L3, NAALAD2, KCNN3, B4GALNT4, TNFSF18, WWTR1, XBP1, LRRN3, TMEM50A, TNFSF15, SURF4, ACER1, VNN1, CD209, SDC1, CORO7, SLC22A7, TDGF1, CSRNP1, ROBO4, TRAM1, MOGAT3, MIA3, SLC7A11, SLC7A10, CX3CL1, CLYBL, EDA2R, SLC22A15, SPTLC3, CTSK, TMED3, CD36, CD34, SLC22A10, MME, ZDHHC13, SORCS1, AVPR1A, CYP7B1, LAT2, CEACAM7, B3GNT5, B3GNT3, CLDN18, RDH5, TLR7, CD302, TLR5, TLR4, POPDC2, STX18, SLC43A1, CXCR4, LILRA1, RFNG, NT5E, C10ORF105, PDPN, ORMDL3, GPC5, PTCHD3,							

					MGAT2, CD58, MICA, GABBR1, SLC31A1, TMEM176A, LHFPL5, LHFPL2, CYP8B1, LYVE1, XK, GPAM, KCNS1, PNPLA3, ESYT3, IL18R1, MEGF9, KLB, STEAP3, STEAP4, DENND5B, GXYLT2, CELSR1, MANEA, GALNT10, ARHGAP42, FAM162A, DUOXA1, ENPP3, IL6R, ENPP5, CA14, PDGFRB, ABCG8, MMGT1, ATG9B, SPNS2, NPY1R, CASK, SLC30A1, LIFR, KMO, SHISA9, TMEM130, ALDH3A2, GPD2, RELL2, ABCG2, CHRNA5, CHRNA4, NPR1, SLC41A2, SEL1L, CHRNA6, SLC1A2, SLC41A1, ADRB2, CACNA1C, DNAJC25, HIGD1A, SEZ6L2, NALCN, ADIPOR2, SEL1L3, TMEM125, MAN2A2, PODXL, CAV2, CAV1, CRIM1, LAYN, TRPV1, SYT9, ESR1, SELE, CRLS1, DNAJC16, SYT8, SYT7, DNAJC18, SLC2A9, NAT2, TMEM237, FAM163A, DNAJC10, PXMP2, EBPL, NMUR1, KLRD1, BMPR1A, TMEM45B, ABCD4, DYRK2, PDE3B, SLC2A1, SLC2A2, SLC2A4, ACSM2B, GHR, MFSD6, HEPH, CYP4V2, TMEM108, BDKRB2, GLP2R, ABCC9, RER1, TMEM216, CDH11, SCN4A, MCTP2, CDH19, HCN3, OR1E1, NRXN3, HMGCR, CLCN3, ATP2C1, AGPAT2, AGPAT3, AGPAT4, NT5DC1, CNR2, CLMN, S1PR1, NCAM1, NCAM2, GALNT7, CMTM8, GALNT5, CMTM3, CMTM4, BNIP3, B3GAT1, ATP2B2, CCS, SCD, ALOX5AP, AQP11, CKLF							
GOTERM_CC_DIRECT	GO:0070062~extracel	298	16.8934	0.0000	APP, TFRC, COL12A1, EPS8, RPS19, PPP2R1B, SCN11A, STMN1, B2M, ARSA, ENTPD1, PRKCB, ACSL4, CMBL, HLA-A, HSPG2, TIAM2, BTD, MTHFD1, SERPING1,	1703	2218	20472	1.6151	0.0000	0.0000	0.0000

	lular exosome				UBA52, ATP6V0D2, CES3, ALDH7A1, CES2, GPLD1, CETP, GPM6A, MTMR2, ENPEP, TTYH3, STXBP4, SHMT1, PRKRIP1, SLC22A2, ENDOD1, IQGAP1, HPR, THY1, IQGAP2, MYL12A, SEC14L2, HPX, SEC14L3, C6, C7, RACGAP1, APOH, PRKAR2A, PDGFC, ST3GAL6, SNX9, ARSF, ASL, APOB, FUCA1, RDX, MYO5A, PRDX6, CCT6A, CS, EHD2, MSRA, BHMT, COL1A2, TOLLIP, GIPC2, PPT1, SDC1, SERPINI1, FAT4, DDR1, GABRB2, SERPINA3, CLIC5, PYGB, LAD1, ROBO4, ORM1, SERPINA1, GBE1, QPRT, SERPINA10, PEPD, SERPINA6, C8A, SERPINA7, ABCC11, SERPINA4, KHK, CTSH, QSOX1, CAP1, MME, ANXA2, ANXA3, BHMT2, GFRA1, NUTF2, F2, RHOC, RHOB, LAT2, UGDH, GPRC5B, BDH2, F9, UFC1, PABPC3, TAX1BP3, ALDOB, PABPC1, CD47, FAM20A, ALDOA, ANGPTL1, C11ORF54, TNXB, RPL12, CXCR4, ADCY1, ABCB11, FSTL1, CPN2, PBLD, PTGS1, SCEL, LMAN1, NT5E, SH3BGRL, CUX2, EPCAM, RPS3, CD59, STX3, GPC4, CD58, NQO2, MBD5, GSN, SLC16A1, GK, PKLR, F11, DDTL, AKR1C4, LYVE1, FABP1, ITCH, LRG1, GSTA5, NEDD4, CAMK4, SLCO4C1, AGRN, RAB3B, FCN2, STEAP4, ATP8A1, RAB3D, LOXL4, PLOD3, PEBP1, RPL10A, CLU, ALDH1L2, ACTG1, EFEMP1, PLAU, CFL2, C1RL, TUBB1, CAPN5, CAPN2, SIRPA, ENPP3, RPS9, SLC38A1, TPM4, IGFBP2, ANXA11, LIFR, ATP1B3, PCOLCE, NPNT, ATP1B1, TUBA4A, MINPP1, C1ORF116, SYPL1, COL4A2, RAB34, FSCN1,						

					ADAM9, RHCG, SLC27A2, PPIA, FKBP5, SLC26A2, GSTCD, LIN7A, LTBP2, AEBP1, NDRG1, ACAT1, VTN, PODXL, KIF3A, COBLL1, PGK1, PLXNA1, MYH11, CNTLN, EPHX2, HSPA6, GGH, MSN, SYT7, PTPRD, QDPR, GRHPR, ARPC2, ALB, ALPL, CRYL1, ACO1, NIT2, SERINC5, ITGB1, SLC2A1, SLC2A4, FTCD, ALAD, CA1, ALDH2, ITGB8, ITGAV, EDIL3, GAL3ST4, YWHAH, FGB, ACTR3, SLC13A3, ARHGEF12, ITGA3, FGG, CTDSPL, SORD, APOA1, ABHD14B, RTN4RL2, YWHAZ, TTC38, ATRN, DDAH1, RPL37A, CAT, CDH11, MYH9, COL6A3, CHMP3, CDH13, DSG2, SMPDL3B, PAPPA2, CREB5, PON3, DDC, HPGD, SEMA3C, SRC, LAMA4, SRI, MLLT3, THBS1, TTR, MAN1C1, MAL2, PCBD1, SLIT2, BEND7, GALNT7, LUM, APOC3, AKR7L, ATP2B2, PTPN13, SORL1, RAB10, MYO1E, RAB14, CTH, GALM, CD248, VIM, ALDH8A1, PFKP, RAN							
GOTERM _CC_DIRECT	GO:0016020~membrane	298	16.8934	0.0000	APP, SLC46A1, SPARC, TFRC, IL23R, MKI67, RPL8, CYB5D2, RPS15, RPS19, CREB3L3, RPL18A, AKT3, STMN1, B2M, ACVR1, ENTPD1, IL1R1, COG3, ACSL5, ACSL4, HLA-A, HSPG2, SYTL4, TIAM2, NUP93, TIAM1, MTHFD1, PRKD1, ATP6V0D2, PRR11, SLC45A4, NUP205, MTMR2, NRN1, GYPC, PRKDC, SLC22A2, SLC22A1, ENDOD1, PDGFA, MTMR7, HSD11B1, ABR, NEU4, PRKAR2A, RAB11FIP5, WWTR1, JAG1, TNFSF15, RCC2, LRBA, EDEM1, STARD10, MYO5A, LARP4, PRDX6, CD209, CALU, PPT1, CORO7, FBXL2, FAT4, XKR4,	1703	2547	20472	1.4065	0.0000	0.0000	0.0000

					SLC22A7, CALM2, RPS24, RPS23, PIGS, INVS, PYGB, MTMR10, NCAPG2, DIRAS2, KIF14, MIA3, KIF11, EVPLL, STON2, SLC6A1, SLC7A10, C8A, ABCC11, CX3CL1, OLR1, BBS7, CD36, CLIC2, CEP55, MAMDC4, ANXA2, ANXA3, ZDHHC13, SORCS1, BACE2, MRAS, KIF2A, VSNL1, PITPNM2, CNKSR3, GAS2, PLIN3, PLEKHO1, CD302, PABPC1, ALDOA, RAPGEF4, RPL10, RPL12, ADCY1, TMEM163, SLC7A1, LMAN1, NT5E, MTHFD1L, FRZB, CHN2, PDPN, RPS3, CTNNA1, PTCHD3, CD59, MGAT2, METTL7A, CD58, SLC17A2, LDLR, BCHE, SLC16A1, MGMT, ATRNL1, F11, LHFPL5, LHFPL2, LYVE1, ITCH, LRG1, LPCAT3, PNPLA3, EPPK1, NCAPD2, SLC28A2, CLEC4M, ATP8A1, DENND5B, RPL10L, TNC, LOXL4, IL1RAP, RPL10A, CLU, ACTG1, CCND2, KIF5B, DUOXA1, LEPR, SIRPA, ACAA1, SLC39A1, SLC16A3, IL6R, SH3GL2, ENPP7, PDGFRB, ABCG8, RPS9, TPM4, DSCAM, MMGT1, HGF, SPNS2, TAP1, ANXA11, NPNT, ATP1B1, DISP2, CACNB3, MELK, COL4A2, MSH2, LGSN, ELMO1, PPIF, ADAM9, SLC27A3, PPIA, DGKI, ABCG2, FKBP5, RASL12, SLC26A2, CHRNA4, SLC1A2, ITPR3, ADRB2, DNAJC25, KLC2, NPHP1, PGK1, MDN1, FAM83B, PLXNA3, SPECC1, CD163, OSBPL6, CAV2, CAV1, OSBPL3, ARHGAP27, ESR1, CRLS1, SYT7, CDK9, REEP1, SLC2A9, CNOT6, DAB1, NBEA, TMEM237, KIF4A, DNAJC10, PXMP2, ITGA11, RNF182, ALPL, DHCR7, MAP3K13, SERINC5, ITGB1, PDE3B, SLC2A1,						

					SLC2A2, SLC2A4, BICD1, RERG, HK2, MFSD6, ATP7B, CASP2, ITGAV, DNM1L, GAL3ST4, ACTR3, HSDL2, ARHGEF12, EGFL6, PLA2G4D, NPY5R, ITGA3, ITGA2, SIGMAR1, SORD, RPL13A, ABCC9, ATRN, VCAN, ACOX1, PEX3, CAT, CDH11, MYH9, MCM4, ITGB1BP1, ACOX3, MCTP2, ITGB3BP, FAM72A, SLC47A1, LAMA4, ATP10B, RRBP1, TTK, SRI, CLCN3, ATP2C1, LRP8, AGPAT3, OGFRL1, RPS6KC1, MAN1C1, NCAM1, SLIT2, GALNT7, CYB5A, KCNJ10, TPBG, MBOAT2, NAP1L1, SEMA4F, SORL1, MYO16, SCD, ALOX5AP, PFKM, CKLF, PFKP, RAN, SNTB1							
KEGG_PATHWAY	hsa01100:Metabolic pathways	247	14.0023	0.0000	DMGDH, PANK1, GLDC, XYLT1, ABAT, GLS, LIPG, PLCE1, LRAT, CHAC2, MLYCD, SEPHS2, ARSA, ENTPD1, SDS, ATP6V0E1, ACSL5, ACSL4, CMBL, GCAT, BTD, MTHFD1, CYP2U1, MTHFD2, IDO2, ATP6V0D2, ALDH7A1, GPLD1, GNE, CDS1, MTMR2, SHMT1, SDSL, ADH7, MTMR7, HSD11B1, ADH4, NEU4, CYP2B6, LDHD, PNPO, HAO1, ST3GAL6, ASL, RIMKLA, B4GALNT4, ST3GAL3, B3GALNT2, B3GALNT1, CYP4F3, ACADSB, PRDX6, DERA, CS, CYP2C9, ACER1, CYP2C8, BHMT, UCK2, ALDH6A1, HAL, VNN1, ADI1, PAH, CYP1A2, CYP1A1, PPT1, PIGS, PYGB, MOGAT3, GBE1, QPRT, CSAD, PIGV, KHK, MECOM, SPTLC3, GNPNAT1, ACAD8, BHMT2, SIRT5, ELOVL6, ELOVL7, PGM2L1, SIRT3, UGDH, BDH2, ALDH5A1, BDH1, B3GNT5, IVD, DPYD, B3GNT3, RGN, RDH5, ALDOB, ALDOA, MOCS1,	880	1539	8156	1.4875	0.0000	0.0000	0.0000

					ADH1B, HAAO, AKR1D1, HSD17B3, ADCY1, HSD17B6, PTGS1, NT5E, MTHFD1L, MGAT2, XDH, GCH1, GK, PKLR, AADAT, GLYCTK, AKR1C4, FMO3, CYP8B1, AGMAT, GSTA5, GPAM, PNPLA3, OTC, ACAA2, TUSC3, GDA, PRDM6, PLOD3, OGDHL, ALDH1L2, CNDP1, GALNT10, TM7SF2, FPGS, ENPP3, NUDT16, ACAA1, GYG2, CA14, ENPP7, UGT2B10, CSGALNACT1, UGT2B11, GPT2, IPMK, MAT1A, KMO, ALDH3A2, MINPP1, SHPK, DGKI, PFKFB1, IDI1, PFKFB3, H6PD, FECH, NPR1, UAP1, AK4, GLYAT, AK5, CYP2C19, ACACB, ACAT1, MAN2A2, PGK1, SMYD2, NADK, SRD5A1, EPHX2, CRLS1, COQ6, QDPR, ADCY10, GRHPR, SEPSECS, GCLC, AMACR, NAT2, P4HA2, ALPL, CRYL1, ACO1, DHCR7, NIT2, ST6GALNAC1, PDE3B, HK2, FTCD, ACSM2B, HK1, DHTKD1, ALAD, CA1, ALDH2, NOS1, HIBCH, HMGCS1, PLA2G4D, BCKDHB, DNMT3A, GPX8, SORD, DCK, PCCA, ACOX1, CHDH, EHHADH, CAT, PCCB, UGT2B4, ACOX3, BCAT1, ST6GALNAC3, ASPA, BCAT2, DDC, MVK, TYRP1, HMGCR, CYP3A5, AGPAT2, AGPAT3, AGPAT4, PDE11A, CBS, OXCT1, MAN1C1, PCBD1, GALNT7, GALNT5, RRM2, FAHD1, MMAB, B3GAT1, MBOAT2, SUOX, DHODH, GNPDA2, SCD, CTH, GALM, NAGS, PDE7B, ALDH8A1, PFKM, LPIN2, PFKP							

GOTERM_CC_DIRECT	GO:0005576~extracellular region	243	13.7755	0.0000	APP, SPARC, SERPINE2, TFRC, HHIP, COL12A1, CYB5D2, CRHBP, LIPH, LIPG, KDR, B2M, ARSA, IL1R1, RNASE4, PRAP1, HSPG2, DKK3, FNDC5, BTC, SFRP4, TWSG1, BTD, CCDC80, CD109, COL8A2, SERPING1, STX1A, GPLD1, CETP, NRN1, ENDOD1, LYPD1, PDGFA, HPR, THY1, ADAMTS10, PLAC8, HPX, C6, C7, APOH, STC2, ADAMTS17, PDGFC, LCN10, APOB, ST3GAL3, DNAH11, JAG1, TSLP, TNFSF15, MCAM, FUCA1, LIF, IGF1, GDF5, PRDX6, DERA, COL1A1, VNN1, COL1A2, CD209, TOLLIP, CALU, PPT1, ITGBL1, COL9A2, TDGF1, SERPINA3, PYGB, LAD1, ORM1, SERPINA1, SERPINA6, C8A, SERPINA7, SERPINA4, CX3CL1, ESM1, C1QTNF1, ADAMTSL3, CTSK, TIMP2, OLR1, RSPO3, CTSH, QSOX1, CAP1, IL11, ANXA2, F2, F7, MMP11, F8, TMEFF2, CD200R1, F9, MMP13, CEACAM7, MMP16, FIBIN, ANGPTL3, PLIN2, ALDOA, DNASE1L3, MATN3, TNXB, CST8, RFNG, FSTL1, CPN2, ADAM28, FRZB, NTF3, GPC5, METTL7A, BCHE, GABBR1, GSN, F11, BMP8A, PLXDC1, COL3A1, LRG1, SMOC1, CFHR4, CLCF1, CFHR5, SIGLEC1, FMOD, AGRN, FCN2, CLEC4M, PLGLB1, EPO, TNC, F13A1, IL1RAP, FGF1, CLU, CNDP1, LOXL1, EFEMP1, PLAU, LEPR, ACAA1, ENPP5, IL6R, DSCAM, IGFBP5, IGFBP4, HGF, ADIPOQ, IGFBP2, KERA, PCOLCE, NPNT, TUBA4A, COL4A2, LOX, C18ORF54, IAPP, MASP1, PPIA, NTM, NXPH4, LPL, LTBP2, AEBP1, GLB1L2, ENHO, VTN, CD163, TGFB2, BDNF, CD160,	1703	2127	20472	1.3734	0.0001	0.0000	0.0000

					HSPA6, CRIM1, GGH, INHBA, ADCY10, IGSF10, ALB, COL20A1, ALPL, NIT2, FBN1, SNED1, BMP10, LEAP2, TREM2, HAPLN4, GHR, ALAD, EMILIN2, HGFAC, MBL2, FGB, COL25A1, FGG, APOA1, RTN4RL2, NGF, GREM2, VCAN, NRG4, CAT, COL6A3, CDH13, ANG, COL6A6, SMPDL3B, PAPPA2, COLEC11, PON3, COLEC10, LAMA4, SEMA3E, THBS2, THBS1, ACAN, TTR, CDC37L1, SPOCK1, NCAM1, SLIT2, DNAI1, ANGPT4, ANGPT2, LAMB3, LGI4, LUM, B3GAT1, APOC3, USH2A, SORL1, MFAP5, MFAP2, APOC1, TEK, MDGA2, CKLF							
GOTERM_CC_DIRECT	GO:0005615~extracellular space	235	13.3220	0.0000	APP, SPARC, SERPINE2, TFRC, POP1, COL12A1, NUDT1, XYLT1, TSKU, CRHBP, LIPH, CHEK1, LIPG, B2M, ARSA, CCBE1, RNASE4, HSPG2, DKK3, BTC, SFRP4, TWSG1, BTD, MTHFD2, CD109, HMSD, COL8A2, SERPING1, ZG16, UBA52, GPLD1, CETP, LXN, PDGFA, PRH2, HPR, CD1D, HPX, C6, ADAMTS13, C7, APOH, STC2, PDGFC, APOF, SERPINH1, APOB, SPTBN2, TNFSF18, ST14, LRRN3, TSLP, FZD4, TNFSF15, ABCA3, MCAM, RDX, LIF, IGFL3, IGF1, GDF5, PRDX6, COL1A1, COL1A2, SERPINI1, COL9A2, TDGF1, DDR1, SERPINA3, ORM1, SERPINA1, SERPINA10, LRRC32, SERPINA6, SIPA1L3, WFDC5, C8A, SERPINA7, SERPINA4, CX3CL1, C1QTNF1, C1QTNF6, CTSK, TIMP2, CTSH, QSOX1, CD36, CTBS, IL11, SERPINB4, ANXA2, SERPINB7, F2, F3, F7, F8, GPRC5B, F9, MMP13, CEACAM6, ANGPTL3, FAM20A, ALDOA, ANGPTL1, TNXB, AFP, FSTL1, CPN2,	1703	1936	20472	1.4592	0.0000	0.0000	0.0000

					SH3BGRL, SRPX2, FRZB, NTF3, GPC5, CD59, XDH, MICA, BCHE, GABBR1, GSN, GOLM1, F11, DDTL, BMP8A, BMP8B, SULF1, PLXDC1, COL3A1, LRG1, SMOC1, CFHR4, CFHR5, FMOD, FCN2, EPO, TNC, F13A1, LOXL4, PLOD3, FGF1, CLU, LOXL1, ACTG1, PODNL1, EFEMP1, PLAU, TNN, CFL2, C1RL, PMPCA, IL6R, IGFBP5, IGFBP4, HGF, ADIPOQ, IGFBP2, KERA, PCOLCE, KMO, COL4A2, LOX, ADAM9, IAPP, MASP1, PPIA, DPT, LPL, LTBP2, AEBP1, VTN, SCUBE1, PODXL, PGK1, CYTL1, CPA6, TGFB2, BDNF, GGH, MSN, INHBA, SELE, DLG3, ALB, COL20A1, ALPL, FGF12, FBN1, BMP10, LECT2, GHR, ALAD, OIT3, HGFAC, MBL2, FGB, EGFL6, COL25A1, FGG, SORD, APOA1, RTN4RL2, NGF, YWHAZ, ATRN, GREM2, VCAN, NRG4, CAT, COL6A3, CDH13, DNAJC9, ANG, SMPDL3B, PAPPA2, COLEC11, PON3, COLEC10, SEMA3C, SEMA3D, CDNF, SEMA3E, LRP8, THBS1, TTR, SPOCK1, SLIT2, CMTM8, ANGPT4, ANGPT2, CMTM3, LGI4, LUM, APOC3, SEMA4F, SORL1, CKLF							
GOTERM_MF_DIRECT	GO:0042802~identical protein binding	204	11.5646	0.0000	APP, FAAH, TFRC, ABAT, CLDN2, TCL1A, RPS19, CREB3L3, UBASH3B, KDR, MLYCD, B2M, EPHA4, RUFY1, KCTD10, PRKD1, ALDH7A1, STX1A, MTMR2, CTBP2, SDC2, SHMT1, SLC22A1, PDGFA, SDSL, APCDD1, GRPEL1, APOH, SNX9, ASL, TNFSF18, XBP1, APOBEC3F, CIDEB, GDF5, ACADSB, PRDX6, COL1A1, EHD2, UCK2, COL1A2, GIPC2, SDC1, GABRB3,	1666	1712	18811	1.3454	0.0106	0.0018	0.0018

					SERPINA1, QPRT, SLC6A1, C1QTNF1, C1QTNF6, GNPNAT1, OLR1, IKBKG, CEP55, ZNF365, ANXA2, NUTF2, MTSS1, UGDH, ALDH5A1, CEACAM6, IVD, CLDN18, ALDOB, ALDOA, MAPRE1, TLR4, PLIN5, PBLD, MIPOL1, RXRA, SRPX2, CTNNA1, DCPS, LDLR, BCHE, SLC16A1, GCH1, SLC31A1, F11, ABI2, PLP1, CCDC6, CFHR5, RAB9B, OTC, MAD2L1, STEAP3, PRDM6, RASEF, HJURP, ACTG1, TNN, KIF5B, LEPR, CAPN3, OIP5, NUDT16, SH3GL2, TPM4, HGF, ADIPOQ, KCTD1, MAT1A, FOXP2, MAF, CERCAM, IAPP, RHCG, ABCG2, PFKFB1, UAP1, ADRB2, ACACB, ADIPOR2, ACAT1, VTN, SCUBE1, BTBD3, HACL1, CBX5, SMAD3, CAV1, CBX1, INHBA, TRPV1, SYT9, ESR1, QDPR, HOOK2, ALB, CNTN2, TCF4, MAP3K13, FBN1, ABCD4, GPSM2, LECT2, FHL2, SLC2A1, MCM10, ADRA1D, PPP1R9A, LMNB2, SYNE1, GHR, ALAD, PPP1R13L, DDI2, CASP2, DNM1L, MBL2, YWHAH, COL25A1, SIGMAR1, FGG, DNMT3A, SORD, APOA1, YWHAZ, GREM2, DMRTA1, TRAF5, CAT, MYH9, CHMP3, MCM6, BCAT1, ASPA, CREB5, CAMK2B, COLEC11, MVK, HPGD, TTK, SRI, HMGCR, THBS1, TTR, CBS, OXCT1, PCBD1, FYN, NCAM2, SLIT2, E2F7, TIMM8A, POLQ, MMAA, BNIP3, USH2A, PML, RAD51, GNPDA2, ZNF618, PRC1, CTH, ALOX5AP, AQP11, CDR2L, VIM, TEK, PFKM, PFKP, KCNK4							

GOTERM_CC_DIRECT	GO:0005887~integral component of plasma membrane	188	10.6576	0.0000	CHRM2, APP, SLC23A2, VIPR1, OXTR, CLEC4M, TFRC, TUSC3, HHIP, AQP9, AQP7, FZD10, IL1RAP, TM7SF2, EDNRA, GJA1, EDNRB, GJA3, IYD, GJA5, KDR, SIRPA, SLC16A3, PCDHAC2, ENPP7, MFSD2A, PDGFRB, ACVR1, SLC34A2, ABCG8, EPHA4, KCNH4, SLC38A1, ENTPD1, DSCAM, IL1R1, KCNK12, NPY1R, TAP1, TM4SF5, LIFR, HLA-A, TMEM130, SYPL1, MIP, TYRO3, AGTR1, KCNQ3, RHCG, CLEC4G, IFNAR1, SLC26A2, ENPEP, SLC26A1, CHRNA5, GYPC, CHRNA4, PCDH10, SLC22A2, CCDC25, CHRNA6, GPR88, SLC22A1, SLC1A2, LPAR2, ITPR3, SLCO5A1, CACNA1C, CD1D, ADRB2, THY1, APCDD1, PODXL, SLCO1B3, PLXNA1, DRD1, PLXNA3, ABCA1, JAG2, ST14, CD163, JAG1, HTR1F, CAV2, FZD4, TNFSF15, CAV1, FZD6, SLC16A10, TRPV1, SELE, DCLK1, SLC2A9, PTPRD, PTPRB, SSPN, SDC1, NMUR1, KLRD1, SLC22A7, GABRB3, DDR1, GABRB2, GABRB1, SIGLEC9, FLT3, SLC2A1, SLC2A2, ADRA1D, TREM2, SLC2A4, LRRC32, SLC6A1, SLC7A10, ABCC11, EDA2R, GHR, ATP7B, C1QTNF1, SGCB, BDKRB2, CNGA1, OLR1, ITGAV, CD36, NEO1, CD34, HS3ST3B1, PCDHGA7, GPR37, NPY5R, MME, GPR35, TRPC4, COL25A1, FCRL6, AVPR1A, SSTR1, SSTR2, F3, ATRN, MMP16, ADORA2B, B3GNT3, SCN4A, CD47, TLR5, TLR4, HCN3, SEMA3C, SEMA3D, SLC43A1, NRXN3, SEMA3E, ADCY1, CLCN3, SLC7A1, CNR2, PERP, PDPN, CD58, GABRE, SLC17A2, LDLR, MPZL1, JAM2, MICA,	1703	1508	20472	1.4987	0.0000	0.0000	0.0000

					GABBR1, NLGN4X, SLC16A1, KCNJ10, PCDH9, SLC31A1, GOLM1, TIE1, TPBG, SEMA4F, ATP2B2, LYVE1, SORL1, P2RX6, SLCO4C1, ESYT3, TEK, FCGR2B, SLC28A2, KCNK2, KCNK4							
GOTERM_CC_DIRECT	GO:0005739~mitochondrion	154	8.7302	0.0008	DMGDH, PECR, APP, ACAA2, TFRC, TUSC3, GLDC, TACO1, HJURP, NUDT1, ABAT, C10ORF67, OGDHL, CLU, ALDH1L2, GLS, GJA1, RPS6KA6, ABHD11, FAM162A, FPGS, PMPCA, SLC25A42, MLYCD, ACAD11, SOX4, PDK2, SDS, ACSL5, CLPX, GCAT, ARMCX3, ARMCX2, MTHFD1, MTHFD2, GPD2, DOK7, FDX1, PPIF, SLC27A3, ALDH7A1, COX19, H6PD, FECH, AK3, ABHD6, AK4, GLYAT, HIGD1A, ACACB, ACAT1, KLC2, GRPEL1, GRPEL2, LDHD, CEP72, NPTX1, RAB11FIP5, GLYATL1, BDNF, ADHFE1, DNAJC11, TRPV1, ACADSB, PRDX6, CRLS1, COQ6, CS, ADCY10, MSRA, GCLC, ALDH6A1, AMACR, HOOK2, PXMP2, ECHDC2, ACO1, ECHDC3, SFXN2, NIT1, SFXN5, HRK, ETFA, MTO1, HK2, CLYBL, ACSM2B, HK1, DHTKD1, GHR, ATP7B, AIFM1, ALDH2, ACP6, CASP2, NOS1, DNM1L, DLGAP5, HIBCH, HSDL2, BCKDHB, SIRT5, DCK, MRPL46, SIRT3, SLC25A15, ALDH5A1, BDH1, PCCA, IVD, CAT, PCCB, SLC25A10, BCAT1, FXN, BCAT2, PLIN5, FAM72A, SRC, SRI, BPHL, ADAM28, RXRA, MTHFD1L, TMEM65, OXCT1, PERP, PDPN, MFN2, FYN, RPP14, DCPS, SLC25A24, TIMM8A, FAHD1, MMAA, GK, KCNJ8, MACC1, GLYCTK, BNIP3,	1703	1437	20472	1.2883	0.4902	0.0198	0.0187

					G0S2, SUOX, MYO19, DHODH, AGMAT, PDP1, RAD51, MSRB3, NAGS, SLC25A33, SLC25A36, TOMM6, OTC							
GOTERM_CC_DIRECT	GO:0005783~endoplasmic reticulum	134	7.5964	0.0000	KLB, APP, ATP8A1, RPL10L, PLOD3, ZDHHC7, CLU, TM7SF2, GJA1, TCL1A, CREB3L3, DUOXA1, CAPN2, KDR, LRAT, EPHA4, ADIPOQ, TAP1, ACSL5, SLC30A1, ACSL4, HLA-A, PRAP1, FNDC5, MINPP1, MIP, ERP27, KDELR3, SLC27A3, UBA52, SLC27A2, CES2, CDS1, H6PD, KLHL14, SAR1B, INSIG1, SEL1L, ITPR3, CD1D, THY1, SEZ6L2, VTN, SEC14L3, STC2, AGMO, SERPINH1, B3GALNT2, XBP1, TMEM50A, CAV1, LRBA, EDEM1, SURF4, ERLIN1, MYO5A, A1CF, REEP1, ACER1, COL1A2, P4HA2, UBXN10, DNAJC10, ALB, CALU, EBPL, ACO1, REEP6, DHCR7, RPS24, RPS23, TRAM1, SERPINA1, FLT3, PDE3B, FTCD, NKIRAS1, TMED3, GNPNAT1, DNM1L, FGB, GPR37, SIGMAR1, ZDHHC13, SLC39A13, ELOVL6, ELOVL7, CYP7B1, PTP4A1, BACE2, RCN2, RER1, PEX3, CAT, ITGA8, FIBIN, TLR7, TRIM59, PLIN2, FAM20A, DNASE1L3, RPL10, CDNF, STX18, HSD17B3, ATP10B, RRBP1, HMGCR, HSD17B6, ATP2C1, AGPAT2, THBS1, AGPAT3, AGPAT4, LMAN1, CNR2, ORMDL3, RPS3, MAN1C1, PTCHD3, METTL7A, KCNB1, BNIP3, TPBG, SEMA4F, SULF1, SORL1, RNF145, SCD, APOC1, ALOX5AP, AQP11, MSRB3, KCNK2	1703	1142	20472	1.4105	0.0326	0.0014	0.0014
GOTERM_CC_DIRECT	GO:0005789~endopla	129	7.3129	0.0000	FAAH, TUSC3, PLOD3, TM7SF2, GJA1, CREB3L3, DUOXA1, LRAT, PTGFRN, SLC39A1, MFSD2A, UGT2B10, UGT2B11, MMGT1, ATG9B, TAP1, ACSL5,	1703	1052	20472	1.4741	0.0058	0.0003	0.0003

	smic reticulum membrane				ACSL4, HLA-A, CYP39A1, ALDH3A2, CYP2U1, TYRO3, KDELR3, SIK2, UBA52, SLC27A2, CDS1, SLC35D1, KLHL14, SAR1B, INSIG1, SEL1L, ITPR3, DNAJC25, CD1D, CYP2C19, SEZ6L2, UBE2J1, GJC1, HSD11B1, NEU4, CYP2B6, AGMO, DRD1, APOB, ABCA1, B3GALNT2, XBP1, OSBPL6, SRD5A1, CAV1, OSBPL3, LRBA, FZD6, SURF4, CYP4F3, ERLIN1, CYP4F12, DNAJC18, REEP1, CYP2C9, ACER1, CYP2C8, CYP1A2, CYP1A1, CALU, ATG2A, EBPL, REEP6, DHCR7, PIGS, ABCD4, MOGAT3, MIA3, FMN1, SLC7A11, PIGV, SPTLC3, CYP4V2, C3ORF52, TMED3, DNM1L, GPR37, SIGMAR1, ELOVL6, ELOVL7, RHOC, CYP7B1, RDH5, UGT2B4, TLR7, TRIM59, SEC23A, STX18, HSD17B3, ATP10B, SRI, HMGCR, CYP3A5, AGPAT2, AGPAT3, AGPAT4, PTGS1, LMAN1, CYP2A13, TMEM67, ORMDL3, PTCHD3, CD59, CYB5A, GABBR1, B3GAT1, MBOAT2, FMO3, CYP8B1, SORL1, RAB10, RNF145, XK, SCD, LPCAT3, ALOX5AP, PNPLA3, AQP11, ESYT3, ANKS4B, LPIN2, KCNK2							
GOTERM_CC_DIRECT	GO:0043231~intracellular membrane-bounde	126	7.1429	0.0000	RAB3B, SPARC, TFRC, ATP8A1, RAB3D, AQP9, CLU, TM7SF2, GJA1, CHEK1, OIP5, CCDC93, PDGFRB, UGT2B10, UGT2B11, RUNX1, CYP39A1, RUFY1, ALDH3A2, RNF125, CYP2U1, PPIF, FAR1, PPIA, GPLD1, CES2, DLX1, MTMR2, SLCO5A1, CYP2C19, HSD11B1, VTN, NEU4, CYP2B6, PODXL, UGT3A2, HACL1, APOB, SPTBN2, RAB11FIP5, ABCA1, SPECC1, OSBPL6, ABCA5,	1703	982	20472	1.5424	0.0008	0.0001	0.0001

	d organelle				ABCA6, ABCA3, XRCC2, OSBPL3, FUCA1, CYP4F3, ABCA9, SLC16A10, CYP4F12, CYP2C9, EHD2, CYP2C8, EHD3, AMACR, DAB1, HOOK2, P4HA2, CYP1A2, CYP1A1, PPT1, SERINC5, SERPINA1, LECT2, MIA3, STON2, RND2, RND3, HK2, LRRC2, GLI3, ADAMTSL3, CTSK, BDKRB2, PMEPA1, OLR1, CTSH, QSOX1, DNM1L, TEAD2, ZNF365, TCF12, RHOC, RHOB, GPRC5B, BDH1, DNAJC6, CAT, RDH5, UGT2B4, DSG2, TAX1BP3, PLIN5, FAM72A, PON3, SMARCD1, MVK, HSD17B3, HSD17B6, CLCN3, CYP3A5, TMEM165, PTGS1, AP3M2, MYCT1, CYP2A13, S1PR1, CTNNA1, E2F5, MTA3, CNNM4, CYB5A, SLC16A1, B3GAT1, ATP2B2, FMO3, RAB10, ITCH, LRG1, KLF5, RAB14, ABI2, OTC							
GOTERM_CC_DIRECT	GO:0009986~cell surface	113	6.4059	0.0000	APP, SLC46A1, SPARC, TFRC, EPO, HHIP, FZD10, CLU, TNN, PLAU, LIPG, CAPN5, SIRPA, PTGFRN, BSN, PDGFRB, EPHA4, ADIPOQ, HLA-A, SFRP4, CD109, TYRO3, KCNQ3, ADAM9, INTU, IGSF3, SDC2, SLC1A2, PDGFA, LPL, LPAR2, CD1D, THY1, IQGAP2, ADAMTS13, SCUBE1, APOH, PDGFC, TNFSF18, FZD1, FZD4, FZD6, LAYN, MSN, CD209, ITGBL1, SDC1, CNTN2, TDGF1, ITGB1, BMP10, SLC7A11, LRRC32, SLC6A1, CX3CL1, GHR, TIMP2, ITGB8, ITGAV, CD36, HAVCR1, OIT3, NEO1, MBL2, FGB, GPR37, ANXA2, MME, TRPC4, ITGA3, ITGA2, FGG, APOA1, RTN4RL2, F3, AJAP1, CD200R1, GPRC5B, RER1, MMP16, CEACAM6, ITGA8, ANGPTL3, DSG2, CD47, TLR4, CXCR4, CST8, CLCN3, ABCB11,	1703	638	20472	2.1291	0.0000	0.0000	0.0000

					LRP8, THBS1, NT5E, SRPX2, EPCAM, NCAM1, CD59, GPC5, SLIT2, GPC4, CD58, LDLR, MPZL1, JAM2, MICA, NLGN4X, KCNB1, TPBG, SULF1, SORL1, AQP11, TEK, KCNK2							
GOTERM_MF_DIRECT	GO:0042803~protein homodimerization activity	97	5.4989	0.0000	APP, TFRC, PANK1, GLDC, CREB3L3, NUDT16, B2M, IL6R, PDK2, RAG1, EPM2A, ACVR1, SDS, TPM4, ADIPOQ, TAP1, MTUS2, FOXP2, RUNX1, ALDH3A2, MSH2, CHMP4C, MASP1, ABCG2, FECH, SHMT1, PEX11A, PDGFA, LPL, ADRB2, HSD11B1, GRPEL1, STC2, GRPEL2, PDGFC, PNPO, SNX9, ECT2, BARD1, WWTR1, XBP1, TGFB2, SMAD3, CAV2, FZD4, EPHX2, TMEM192, GRHPR, CRYL1, TCF3, MAP3K13, BMPR1A, SYNE1, GHR, MECOM, HNF4A, IKBKG, DNM1L, ZNF365, HMGCS1, MME, APOA1, SLC39A13, DCK, ACOX1, DPYD, CAT, FIBIN, MYH9, RDH5, CDH13, ANG, JDP2, CAMK2B, PON3, TYRP1, MTHFD1L, CBS, SLIT2, MGAT2, XDH, PDLIM4, NQO2, RRM2, NLGN4X, GCH1, MMAA, AADAT, BNIP3, PML, TBX15, HEYL, CENPF, SYT10, MMACHC, MIXL1, MAD2L1	1666	713	18811	1.5361	0.0353	0.0040	0.0039
GOTERM_MF_DIRECT	GO:0005509~calcium ion binding	96	5.4422	0.0002	SNED1, SPARC, RASEF, GUCA1B, CELSR1, EFEMP1, CAPN2, CAPN3, ENPP3, OIT3, EDIL3, PCDHAC2, ARSA, PCDHGA7, CCBE1, EGFL6, TPM4, ANXA2, PLA2G4D, ANXA3, SWAP70, ANXA11, F2, NPNT, HSPG2, RUNX1, F7, VCAN, RCN2, MMP13, MELK, F9, VSNL1, GPD2, PITPNM2, MYL3, CDH11, RGN, CDH13, DSG2, MASP1, MCTP2, MYL9, DNASE1L3, MATN3, CDH19, COLEC11,	1666	752	18811	1.4414	0.3437	0.0324	0.0320

					PCDH10, LPL, LTBP2, ITPR3, SRI, IQGAP1, THBS2, ATP2C1, THBS1, FSTL1, LRP8, MYL12A, ACAN, SCUBE1, ADAMTS13, MAN1C1, REPS2, SPOCK1, SLIT2, LDLR, SLC25A24, JAG2, JAG1, GSN, GCH1, PCDH9, MGMT, EDEM1, ATP2B2, PPP2R3A, SULF1, SYT9, SYT8, SYT7, PDP1, EHD2, EHD3, SMOC1, SYT10, CALU, ESYT3, ALPL, CD248, FAT4, AGRN, CALM2, MMACHC, CAPS, FBN1							
GOTERM_BP_DIRECT	GO:0007155~cell adhesion	81	4.5918	0.0000	DDR1, ITGB1, APP, BMP10, SIGLEC9, COL12A1, TNC, SLC7A11, CLDN2, RND3, HAPLN4, CX3CL1, EMILIN2, SIRPA, ITGB8, ITGAV, CD36, NEO1, CD34, EDIL3, PCDHAC2, FGB, PCDHGA7, EPHA4, ENTPD1, EGFL6, DSCAM, ITGA3, ITGA2, CASK, ATP1B1, NPNT, MTSS1, RHOB, AJAP1, VCAN, CDH11, TYRO3, ITGA8, CERCAM, CLDN18, COL6A3, ADAM9, COL6A6, DSG2, CD47, ITGB3BP, GNE, TNXB, SRC, PCDH10, NTM, LAMA4, DPT, PRKX, THY1, THBS2, THBS1, VTN, ACAN, PODXL, CTNNA1, S1PR1, SPOCK1, CTNNA3, NCAM1, NCAM2, NLGN4X, PCDH9, CADM2, MCAM, TPBG, BMX, SELE, LYVE1, COL1A1, ITGA10, ITGA11, SSPN, ITGBL1, CNTN2	1629	557	19256	1.7190	0.0103	0.0015	0.0015
GOTERM_CC_DIRECT	GO:0005925~focal adhesion	73	4.1383	0.0000	ITGB1, TES, FAM107A, TNC, FHL2, RPL10A, RPL8, RND3, ACTG1, RPS15, AKAP12, GJA1, RPS19, PLAU, CAPN5, CAPN2, ITGB8, ITGAV, B2M, PDGFRB, ACTR3, CAP1, RPS9, TPM4, MME, ITGA3, ITGA2, AFAP1, RPL13A, CASK, KIF23, HSPG2, YWHAZ, RHOB, ENAH,	1703	424	20472	2.0697	0.0000	0.0000	0.0000

					RPL37A, CAT, ITGA8, MYH9, ADAM9, CDH13, PABPC1, MAPRE1, PPIA, SRC, FBLIM1, RPL12, THY1, IQGAP1, ARHGAP22, CNN1, PRKAR2A, RPS3, NHS, CTNNA1, CD59, MPZL1, FZD1, GSN, CAV2, MCAM, CAV1, RDX, LAYN, MSN, RAB10, EHD3, ARPC2, ITGA11, ITGBL1, VIM, TEK, SNTB1							
GOTERM_CC_DIRECT	GO:0016324~apical plasma membrane	69	3.9116	0.0000	CLIC5, SLC23A2, OXTR, SLC46A1, SLC2A1, SLC2A2, SIPA1L3, ABCC11, GJA1, DSTYK, CTSK, ENPP3, CD36, SLC16A3, CD34, IL6R, PDGFRB, SLC34A2, ABCG8, IGFBP2, ATP1B3, ATP1B1, AJAP1, CACNB3, CEACAM7, MIP, CEACAM6, CNKSR3, RHCG, ATP6V0D2, PAPPA2, ABCG2, SLC26A2, ENPEP, SLC47A1, SLC22A2, SLC22A1, ADRB2, THY1, CLCN3, ABCB11, SLC7A1, PODXL, EPCAM, PDPN, NHS, MAL2, STX3, MPDZ, CD300LG, SPTBN2, SLC16A1, JAG1, KCNB1, CAV1, FZD6, RDX, SLC4A10, LHFPL5, MSN, ATP2B2, CYP4F12, USH2A, SLC2A9, ADCY10, TEK, KCNK2, TDGF1, PFKM	1703	374	20472	2.2178	0.0000	0.0000	0.0000
GOTERM_CC_DIRECT	GO:0009897~external side of plasma membrane	69	3.9116	0.0000	ITGB1, FCN2, CLEC4M, TFRC, IL23R, SLC2A4, GHR, CTSK, CAPN2, KDR, LEPR, ITGAV, ENPP3, CD36, CD34, B2M, IL6R, MBL2, FGB, ITGA3, IL1R1, FCRL6, ITGA2, FGG, LIFR, RTN4RL2, GFRA1, F2, GFRA2, CLEC4C, CD200R1, ITGA8, CDH13, CD302, TLR4, CLEC4G, COLEC11, COLEC10, ENPEP, CHRNA4, CXCR4, CD1D, THY1, VTCN1, CLCN3, THBS1, NT5E, SCUBE1, S1PR1, TNFRSF14, NCAM1, GPC4, LDLR, MICA, KCNJ3, ABCA1,	1703	456	20472	1.8190	0.0014	0.0001	0.0001

					CD163, MCAM, TRPV1, SELE, CD209, ITGA10, IL2RA, ITGA11, SDC1, CD248, KLRD1, FCGR2B, BMPR1A							
GOTERM_MF_DIRECT	GO:0005102~receptor binding	63	3.5714	0.0000	PECR, FCN2, APP, SERPINE2, CLU, CX3CL1, HNF4A, RSPO3, SLC39A1, MBL2, PDGFRB, FGB, IGFBP4, HGF, ADIPOQ, IGFBP2, FGG, APOA1, CASK, GFRA1, HLA-A, NGF, F2, MTSS1, F7, AR, NRG4, RASA1, ANGPTL3, ANG, IAPP, TLR4, ANGPTL1, SMARCD1, SRC, LAMA4, NXPH4, LPL, SRI, VTCN1, SRPX2, PDPN, NTF3, APOF, CYTL1, FYN, CD58, FZD1, ABCA1, TNFSF18, ANGPT4, TGFB2, ANGPT2, TNFSF15, CD160, CAV1, LIF, IGFL3, MSN, PTPRD, AMACR, CLCF1, TDGF1	1666	396	18811	1.7963	0.0124	0.0018	0.0018
GOTERM_CC_DIRECT	GO:0043025~neuronal cell body	62	3.5147	0.0000	CHRM2, NRSN1, SLC6A1, PPP1R9A, CX3CL1, GHR, AKAP12, TNN, TIMP2, CAPN2, SH3GL2, SLC38A1, DSCAM, MME, KCND3, ANXA3, ACSL4, GFRA1, CSNK1E, TIAM1, MAP1B, MAP1A, ANG, DGKI, GPM6A, HCN3, DDC, KLHL14, SRC, CHRNA4, ITPR3, SEZ6L2, LRP8, TTBK1, CNR2, KIF3A, KCNN3, APOB, CNNM4, SPTBN2, TGFB2, GABBR1, TMEM50A, SLC31A1, SRD5A1, SLC4A10, TRPV1, PLXDC1, USH2A, SORL1, FBXO31, DHODH, ADCY10, P2RX6, DAB1, DLG3, PPT1, RGS10, CNTN2, SERPINI1, KCNK2, BMPR1A	1703	407	20472	1.8312	0.0040	0.0002	0.0002
GOTERM_CC_DIRECT	GO:0005759~mitochondrial matrix	61	3.4580	0.0000	DMGDH, ARHGAP11B, ACAA2, GLDC, NUDT1, ABAT, ETFA, OGDHL, ALDH1L2, ACSM2B, GLS, DHTKD1, ALDH2, ACP6, FPGS, PMPCA, MLYCD, HIBCH, PDK2, ACAD8, GPT2, BCKDHB, ACOT13, SIRT5, CLPX, SIRT3, BTD, ALDH5A1, PCCA, BDH1, MTHFD2, IVD, FDX1,	1703	390	20472	1.8802	0.0020	0.0001	0.0001

					PCCB, PPIF, FXN, ALDH7A1, BCAT2, FECH, ETFDH, AK3, AK4, GLYAT, ACAT1, GRPEL1, MTHFD1L, OXCT1, RPS3, FAHD1, MMAA, AADAT, MMAB, ADHFE1, SUOX, ACADSB, CS, PDP1, ALDH6A1, RAD51, NAGS, OTC							
GOTERM_CC_DIRECT	GO:0045202~synapse	61	3.4580	0.0014	GABRB3, CHRM2, GABRB2, APP, GABRB1, FAM107A, CLU, HAPLN4, GLS, RPS15, CAPN5, NOS1, FGB, RPS9, GPR37, NPY5R, DSCAM, MME, TMOD2, MYRIP, SHISA9, ENAH, TIAM2, TIAM1, CACNB3, MAP1B, MAP1A, DOK7, KCNQ3, DGKI, CAMK2B, RGS17, NRN1, CHRNA5, RPL10, CHRNA4, CHRNA6, LYPD1, LIN7A, GJC1, SRPX2, KCNMB1, CHN2, GPC4, GABRE, NLGN4X, SLC16A1, HTR1F, CADM2, SLC4A10, ARPC2, SYT10, PLP1, RGS10, CNTN2, PDE7B, CPEB3, AGRN, FGF12, SNTB1, RPS23	1703	488	20472	1.5026	0.6991	0.0324	0.0306
GOTERM_CC_DIRECT	GO:0005788~endoplasmic reticulum lumen	60	3.4014	0.0000	APP, SERPINA1, FLT3, COL12A1, SERPINA10, TNC, PLOD3, MIA3, QSOX1, B2M, ARSA, IGFBP5, IGFBP4, COL25A1, FGG, GPX8, APOA1, F2, MINPP1, F7, VCAN, F8, RCN2, F9, COL4A2, COL8A2, CERCAM, COL6A3, SERPING1, RDH5, ERP27, CES3, SLC27A2, MATN3, CES2, H6PD, SDC2, PDGFA, AFP, THBS1, FSTL1, FOXRED2, ADAMTS13, STC2, PDGFC, SERPINH1, ARSF, APOB, BCHE, GOLM1, COL1A1, COL3A1, COL1A2, P4HA2, DNAJC10, ALB, COL20A1, CALU, COL9A2, FBN1	1703	306	20472	2.3571	0.0000	0.0000	0.0000
GOTERM_CC_DIRECT	GO:0070161~anchoring	59	3.3447	0.0027	GABRB3, CHRM2, GABRB2, GABRB1, STON2, SLC6A1, PPP1R9A, EPS8, ARHGAP44, DSTYK, SH3PXD2A, KDR, TMEM108, NOS1, DNM1L, BSN, SH3GL2, DSCAM, SIGMAR1, SHISA9, TANC2, GAP43, MAP1B, DOK7,	1703	481	20472	1.4745	0.8907	0.0502	0.0473

	junction				STX1A, DGKI, CAMK2B, GPM6A, RGS17, NRN1, CTBP2, CHRNA5, CHRNA4, CHRNA6, CXCR4, CACNA1C, TMEM163, DRP2, ABR, SRPX2, PDPN, DRD1, SLC17A8, GABRE, GABBR1, NLGN4X, KCNB1, CADM2, IQSEC3, CADPS, SLC4A10, SEMA4F, ATP2B2, TRPV1, SYT9, SYT7, SSPN, CPEB3, AGRN							
KEGG_PATHWAY	hsa04151:PI3K-Akt signaling pathway	57	3.2313	0.0019	ITGB1, CHRM2, EPO, FLT3, TNC, FGF1, GHR, TCL1A, CCND2, PPP2R1B, CREB3L3, TNN, AKT3, KDR, ITGB8, ITGAV, IKBKG, IL6R, YWHAH, PDGFRB, ITGA3, HGF, ITGA2, NGF, YWHAZ, COL4A2, CCNE2, ITGA8, COL6A3, COL6A6, TLR4, CREB5, IFNAR1, TNXB, LAMA4, PDGFA, LPAR2, THBS2, THBS1, VTN, RXRA, NTF3, PDGFC, ANGPT4, ANGPT2, LAMB3, BDNF, PPP2R3A, IGF1, COL1A1, EFNA3, COL1A2, ITGA10, IL2RA, ITGA11, COL9A2, TEK	880	354	8156	1.4923	0.4690	0.0313	0.0286
GOTERM_CC_DIRECT	GO:0016323~basolateral plasma membrane	52	2.9478	0.0000	SLC23A2, SLC46A1, TFRC, AQP9, SLC2A1, AQP7, SLC7A11, DSTYK, ATP7B, HEPH, LEPR, SLC16A3, SLC38A1, SLC13A3, ANXA2, TRPC4, ITGA3, CASK, ATP1B3, ATP1B1, AJAP1, ADAM9, RHCG, SLC47A1, SLC26A1, HPGD, SLC22A1, SLC41A1, LIN7A, CD1D, SLC7A1, EPCAM, PDPN, SLCO1B3, CD300LG, LDLR, CNNM4, ABCA1, ST14, SLC16A1, KCNJ10, CAV1, SLC4A10, MSN, ATP2B2, SLC16A10, SLC2A9, DLG3, SLCO4C1, EPPK1, TEK, SLC22A7	1703	238	20472	2.6265	0.0000	0.0000	0.0000

GOTERM_BP_DIRECT	GO:0042493~response to drug	51	2.8912	0.0000	OXTR, ABAT, ALAD, SCN11A, FPGS, TIMP2, B2M, ABCG8, HMGCS1, ITGA3, ITGA2, IGFBP2, DNMT3A, SORD, APOA1, LOX, MAP1B, CAT, PLIN2, SEMA3C, FECH, SRC, SLC1A2, LPL, AK4, ADCY1, THBS1, ACACB, AGPAT2, ADIPOR2, LRP8, OXCT1, FYN, DRD1, FZD1, BCHE, TGFB2, MGMT, SRD5A1, ABCA3, GGH, INHBA, DHODH, CDK9, GNAO1, COL1A1, CENPF, RAD51, DAB1, CYP1A1, OTC	1629	293	19256	2.0575	0.0074	0.0014	0.0014
GOTERM_BP_DIRECT	GO:0001525~angiogenesis	48	2.7211	0.0000	ROBO4, ENPEP, EPAS1, PDE3B, NRXN3, PDGFA, PRKX, THY1, FGF1, ACTG1, ARHGAP22, ESM1, SRPX2, HEY1, GJA5, KDR, S1PR1, LEPR, ITGAV, SRPK2, ACVR1, PDGFRB, ANGPT4, XBP1, ANGPT2, JAG1, ANXA2, UNC5B, CD160, MCAM, CAV1, TIE1, VEZF1, HSPG2, PLXDC1, YWHAZ, RHOB, PTPRB, KLF5, COL4A2, TAL1, ANGPTL3, COL8A2, MYH9, ANG, PRKD1, TEK, ANGPTL1	1629	252	19256	2.2516	0.0011	0.0011	0.0011
GOTERM_BP_DIRECT	GO:0016477~cell migration	48	2.7211	0.0000	ITGB1, ENPEP, SDC2, IQGAP1, RND2, RND3, THBS1, VTN, PODXL, PDPN, KDR, CTNNA1, WWC3, S1PR1, SIRPA, ITGB8, GPC5, ITGAV, CTNNA3, GPC4, PDGFRB, TGFB2, LAMB3, ATRNL1, GFRA1, RHOC, USH2A, SORL1, RHOB, ATRN, TIAM1, DEPDC1B, TMEFF2, ABI2, TYRO3, FSCN1, ELMO1, ITGBL1, SDC1, ADAM9, ANG, CD248, ITGB1BP1, CD47, CORO7, RHOV, MAPRE1, MEGF9	1629	268	19256	2.1171	0.0069	0.0014	0.0014

GOTERM_MF_DIRECT	GO:0016491~oxidoreductase activity	47	2.6644	0.0000	DMGDH, DHRS12, PECR, OXNAD1, HPGD, ADH1B, TYRP1, HSD17B3, ETFDH, ETFA, HSD17B6, ADH7, CYP2C19, CYP3A5, HSD11B1, FOXRED2, AIFM1, HEPH, FADS6, IYD, HEATR4, NOS1, XDH, NQO2, HSDL2, RRM2, SRD5A1, ADHFE1, SORD, COQ6, ALDH3A2, CYP2C9, F8, BDH2, ALDH5A1, BDH1, ADI1, SCD, CHDH, CYP1A2, CYP1A1, RDH5, CRYL1, FAR1, MMACHC, CYB561, PAOX	1666	241	18811	2.2020	0.0009	0.0002	0.0002
GOTERM_BP_DIRECT	GO:0030335~positive regulation of cell migration	47	2.6644	0.0000	ITGB1, SEMA3C, ATP8A1, SEMA3D, LEF1, FAM107A, PDGFA, SEMA3E, FGF1, THBS1, ACTG1, FAM83H, PLAU, PODXL, PDPN, PDGFC, NTF3, KDR, S1PR1, CTSH, ITGAV, DRD1, ACVR1, PDGFRB, EPHA4, XBP1, SMAD3, FZD4, MCAM, HGF, CAV1, RDX, SEMA4F, IGF1, RHOC, F3, PTP4A1, COL1A1, TIAM1, F7, SH3RF2, CEACAM6, ANGPTL3, PLP1, ADAM9, CDH13, TDGF1	1629	256	19256	2.1702	0.0044	0.0014	0.0014
GOTERM_CC_DIRECT	GO:0043235~receptor complex	44	2.4943	0.0000	DDR1, ITGB1, APP, VIPR1, NPR1, FLT3, IL23R, LOXL4, ITPR3, ADRB2, LRP8, TM7SF2, GHR, ACVR1C, RXRA, KDR, LEPR, OLR1, CD36, LDLR, IL6R, ACVR1, PDGFRB, ABCG8, EPHA4, GPR37, SMAD3, ITGA3, TIE1, NR1H4, LIFR, GFRA1, PLXDC1, GFRA2, P2RX6, PTPRB, CD200R1, GPRC5B, TYRO3, TLR7, KLRD1, TEK, TLR4, BMPR1A	1703	217	20472	2.4375	0.0001	0.0000	0.0000
GOTERM_CC_DIRECT	GO:0045121~	41	2.3243	0.0001	ITGB1, APP, SRC, SLC1A2, THY1, ADCY1, SLC2A4, IQGAP1, HK1, GJA1, EDNRB, PPP2R1B, PODXL, PDPN, KDR, SERPINH1, S1PR1, PGK1, CAPN2, MAL2, OLR1,	1703	251	20472	1.9636	0.0409	0.0017	0.0016

	membrane raft				FYN, NOS1, CD36, ABCA1, GABBR1, MME, ANXA2, CAV2, UNC5B, CAV1, ERLIN1, RTN4RL2, ATP2B2, SULF1, SELE, LAT2, PPT1, TEK, TDGF1, ABCG2							
GOTERM_BP_DIRECT	GO:0007507~heart development	41	2.3243	0.0000	POPDC2, OXTR, SPARC, PRKDC, CACNA1C, SRI, ADIPOR2, GLI3, ACAN, GJA1, PDLIM3, EDNRA, SALL1, OXCT1, GJA5, SMYD2, PLCE1, SOX9, DNAI1, PDLIM4, SOX4, NKX3-1, ACVR1, TGFB2, KCNJ8, IFT140, ITGA3, KCNAB1, SYPL2, FOXL1, BICC1, COL3A1, MTHFD1, LOX, PKP2, TEK, PPARA, FGF12, TDGF1, MIXL1, FBN1	1629	218	19256	2.2232	0.0132	0.0017	0.0017
KEGG_PATHWAY	hsa04510:Focal adhesion	40	2.2676	0.0002	ITGB1, TNXB, SHC3, SRC, LAMA4, TNC, PDGFA, THBS2, THBS1, MYL12A, ACTG1, VTN, CCND2, TNN, AKT3, PDGFC, KDR, CAPN2, ITGB8, ITGAV, FYN, PDGFRB, LAMB3, PRKCB, CAV2, ITGA3, HGF, CAV1, ITGA2, IGF1, COL1A1, COL1A2, COL4A2, ITGA10, ITGA11, ITGA8, COL6A3, COL6A6, COL9A2, MYL9	880	201	8156	1.8444	0.0571	0.0045	0.0041
GOTERM_BP_DIRECT	GO:0098609~cell-cell adhesion	39	2.2109	0.0000	TNXB, FBLIM1, SRC, THY1, CELSR1, CLDN2, CX3CL1, SRPX2, EPCAM, PERP, NPHP1, PDPN, CTNNA1, ITGAV, CTNNA3, CD58, SOX9, NEO1, CD34, JAM2, ANXA2, ITGA3, ITGA2, RAB10, VNN1, DLG3, ITGA10, DLG5, ITGA11, CDH11, ITGA8, PKP2, COL8A2, MYH9, DSG2, FAT4, SIGLEC1, PKP3, CDH19	1629	190	19256	2.4264	0.0026	0.0013	0.0013
GOTERM_CC_DIRECT	GO:0031012~extracellular matrix	39	2.2109	0.0004	SNED1, TNXB, LTBP2, FGF1, LRRC32, HAPLN4, THBS1, ADAMTS10, CPN2, ACAN, ADAMTS13, EFEMP1, ADAMTSL3, ADAMTS17, TIMP2, CCBE1, LRRN3, LUM, KERA, RTN4RL2, COL1A1, MMP11, COL3A1, VCAN, MMP13, COL1A2, COL4A2, MMP16, LOX, COL8A2,	1703	259	20472	1.8101	0.2994	0.0119	0.0112

					COL6A3, ALPL, COL6A6, CD248, COL9A2, FMOD, GPLD1, MATN3, FBN1							
GOTERM_CC_DIRECT	GO:0014069~postsynaptic density	39	2.2109	0.0008	MTMR2, SRC, RPL12, CACNA1C, RPL10A, RPL8, PPP1R9A, LRP8, EPS8, DRP2, ARHGAP44, RPS19, RPL18A, TMEM108, RPS3, SPOCK1, FYN, NOS1, BSN, MPDZ, EPHA4, KCND3, BNIP3, IQSEC3, SIGMAR1, SEMA4F, NETO2, SHISA9, DCLK1, P2RX6, GAP43, DAB1, DNAJC6, DLG5, MAP1B, ITGA8, CPEB3, DGKI, STX1A	1703	267	20472	1.7559	0.4749	0.0195	0.0184
GOTERM_MF_DIRECT	GO:0005178~integrin binding	37	2.0975	0.0000	ITGB1, APP, TNXB, SRC, THY1, FGF1, THBS1, CX3CL1, VTN, ESM1, ADAMTS13, TNN, KDR, TIMP2, ITGB8, ITGAV, EDIL3, JAM2, EGFL6, ITGA3, ITGA2, GFRA1, IGF1, NPNT, HSPG2, COL3A1, FRMD5, ITGA10, ITGA11, ANGPTL3, ITGA8, ITGBL1, MYH9, ADAM9, ITGB1BP1, PPIA, FBN1	1666	161	18811	2.5949	0.0003	0.0001	0.0001
KEGG_PATHWAY	hsa05205:Proteoglycans in cancer	37	2.0975	0.0020	ITGB1, CAMK2B, SRC, SDC2, ITPR3, FZD10, IQGAP1, THBS1, ACTG1, VTN, PLAU, AKT3, KDR, PLCE1, ITGAV, FZD1, TGFB2, ARHGEF12, FZD4, PRKCB, CAV2, LUM, HGF, CAV1, ITGA2, FZD6, RDX, MSN, IGF1, HSPG2, ESR1, COL1A1, TIAM1, MRAS, COL1A2, SDC1, TLR4	880	205	8156	1.6728	0.4977	0.0313	0.0286
KEGG_PATHWAY	hsa01240:Biosynthesis of cofactors	36	2.0408	0.0000	FECH, PANK1, SHMT1, HAAO, QPRT, AK3, AK4, AK5, HSD17B6, ALAD, ALDH2, MTHFD1L, FPGS, PNPO, NADK, UGT2B10, UGT2B11, GCH1, MMAB, GGH, MAT1A, KMO, COQ6, DHODH, ALDH3A2, UGDH, GCLC, MTHFD1, MTHFD2, RGN, UGT2B4, ALPL, IDO2, BCAT1, MOCS1, BCAT2	880	153	8156	2.1807	0.0036	0.0006	0.0006

GOTERM_MF_DIRECT	GO:0005201~extracellular matrix structural constituent	34	1.9274	0.0000	SPARC, TNXB, LAMA4, TNC, DPT, LTBP2, AEBP1, THBS2, THBS1, VTN, ACAN, SRPX2, EFEMP1, OIT3, EDIL3, FGB, LAMB3, LUM, ADIPOQ, FGG, PCOLCE, NPNT, MFAP5, COL1A1, COL3A1, FRAS1, COL1A2, COL4A2, MFAP2, COL8A2, COL9A2, AGRN, MATN3, FBN1	1666	138	18811	2.7819	0.0002	0.0001	0.0001
GOTERM_BP_DIRECT	GO:0001666~response to hypoxia	33	1.8707	0.0001	TFRC, EPO, CHRNA4, EPAS1, SLC2A1, PDGFA, CXCR4, ABAT, THBS1, HK2, ALAD, EDNRA, PLAU, CAPN2, NOS1, EGR1, ARNT2, TGFB2, ANGPT2, SMAD3, PKLR, BNIP3, CAV1, ITGA2, ADIPOQ, ATP1B1, PML, F7, CAT, CYP1A1, ANG, TEK, PPARA	1629	182	19256	2.1433	0.2685	0.0195	0.0194
GOTERM_MF_DIRECT	GO:0022857~transmembrane transporter activity	31	1.7574	0.0002	SLC46A1, SLC47A1, SLC22A2, SLC22A1, SLC43A1, SLC2A1, SLC41A1, SLC2A2, SLCO5A1, SLC7A10, SLC7A1, MFSD6, SLC22A15, SLCO1B3, SLC17A8, SLC17A2, SLC37A3, CNNM4, SLC22A10, SLC13A3, SPNS2, SLC4A10, ABCC9, MFSD10, DISP2, SLC2A9, SLC25A15, SLC25A10, SFXN2, SLC22A7, SFXN5	1666	171	18811	2.0469	0.3269	0.0324	0.0320
GOTERM_MF_DIRECT	GO:0008201~heparin binding	31	1.7574	0.0004	APP, LXN, TNXB, SERPINE2, SERPINA10, LPL, LTBP2, FGF1, THBS2, THBS1, FSTL1, VTN, APOH, LIPH, LIPG, RSPO3, SLIT2, APOB, ZNF146, COL25A1, F11, PCOLCE,	1666	176	18811	1.9888	0.4838	0.0473	0.0467

					F2, GREM2, TWSG1, CCDC80, SMOC1, ANGPTL3, ANG, FGF12, FBN1							
GOTERM_MF_DIRECT	GO:0003824~catalytic activity	29	1.6440	0.0000	HHIP, ABAT, HSD17B6, FTCD, CLYBL, PBLD, ALAD, MAN2A2, SPTLC3, CAPN3, ENPP5, BCHE, ARSA, AADAT, GPT2, BCKDHB, GCAT, DHODH, RCL1, CNOT6, HAL, DDAH1, LGSN, EHHADH, ECHDC2, ECHDC3, BCAT1, MOCS1, BCAT2	1666	132	18811	2.4806	0.0190	0.0024	0.0024
GOTERM_CC_DIRECT	GO:0005912~adherens junction	29	1.6440	0.0006	OXTR, CDCA3, FMN1, NDRG1, CYTH3, PDLIM3, CCDC85A, NPHP1, CTNNA1, CTNNA3, PDLIM4, EPHA4, JAG1, ANXA2, RDX, MSN, AJAP1, RAB10, MYO1E, FRMD5, DLG3, ABI2, DLG5, CDH11, WNK3, PKP2, MYH9, PKP3, CDH19	1703	175	20472	1.9921	0.3902	0.0155	0.0146
KEGG_PATHWAY	hsa04512:ECM-receptor interaction	29	1.6440	0.0000	ITGB1, TNXB, LAMA4, TNC, THBS2, THBS1, VTN, TNN, ITGB8, ITGAV, CD36, LAMB3, ITGA3, ITGA2, NPNT, HSPG2, COL1A1, FRAS1, COL1A2, COL4A2, ITGA10, ITGA11, ITGA8, COL6A3, SDC1, COL6A6, CD47, COL9A2, AGRN	880	88	8156	3.0543	0.0000	0.0000	0.0000
KEGG_PATHWAY	hsa01200:Carbon metabolism	28	1.5873	0.0001	H6PD, GLDC, SHMT1, OGDHL, SDSL, HK2, HK1, ACAT1, PGK1, HAO1, HIBCH, SDS, PKLR, GPT2, GLYCTK, CS, ALDH6A1, PCCA, ACOX1, CAT, PCCB, RGN, ACO1, ALDOB, ACOX3, ALDOA, PFKM, PFKP	880	115	8156	2.2566	0.0221	0.0022	0.0020

GOTERM_CC_DIRECT	GO:0005604~basement membrane	27	1.5306	0.0000	LAD1, SPARC, LAMA4, TNC, THBS2, LOXL1, VTN, ACAN, EGFL6, ANXA2, ATRNL1, CASK, NPNT, HSPG2, USH2A, ATRN, TMEFF2, CCDC80, FRAS1, COL4A2, SMOC1, COL8A2, ANG, RELL2, AGRN, FBN1, MEGF9	1703	94	20472	3.4529	0.0000	0.0000	0.0000
GOTERM_CC_DIRECT	GO:0005777~peroxisome	27	1.5306	0.0000	ABCD4, PECR, IDI1, MVK, PEX11A, HACL1, HAO1, MLYCD, DNM1L, ACAA1, ACAD11, XDH, HSDL2, EPHX2, MYO5A, SYT7, ALDH3A2, NUDT7, AMACR, ACOX1, PEX3, EHHADH, CAT, FAR1, VIM, ACOX3, PEX11G	1703	112	20472	2.8980	0.0010	0.0001	0.0001
GOTERM_BP_DIRECT	GO:0006805~xenobiotic metabolic process	25	1.4172	0.0000	NR1I2, GLYAT, ABCB11, CYP2C19, BPHL, CYP3A5, ACSM2B, CYP2B6, CYP2A13, HNF4A, SULT2A1, BCHE, UGT2B11, CMBL, CYP4F12, CYP2C9, CYP2C8, GSTA5, CYP2U1, NAT2, CYP1A2, CYP1A1, CES3, SLC22A7, CES2	1629	98	19256	3.0155	0.0084	0.0014	0.0014
GOTERM_BP_DIRECT	GO:0007160~cell-matrix adhesion	25	1.4172	0.0000	ITGB1, SNED1, TNXB, VTN, ADAMTS13, TNN, ITGB8, ITGAV, CD34, FGB, ITGA3, ITGA2, FGG, NPNT, LYVE1, TIAM1, COL3A1, ITGA10, ITGA11, ANGPTL3, ITGA8, ITGBL1, ADAM9, ITGB1BP1, SIGLEC1	1629	107	19256	2.7619	0.0426	0.0048	0.0048

GOTERM_CC_DIRECT	GO:0072562~blood microparticle	25	1.4172	0.0009	SERPINA3, FCN2, ORM1, TFRC, SLC2A1, F13A1, HPR, C8A, CLU, CPN2, ACTG1, VTN, HPX, C1RL, FGB, BCHE, GSN, FGG, HSPA6, APOA1, MSN, F2, YWHAZ, ALB, SERPING1	1703	145	20472	2.0726	0.5154	0.0207	0.0195
GOTERM_CC_DIRECT	GO:0005581~collagen trimer	24	1.3605	0.0000	COLEC11, FCN2, CCBE1, COLEC10, COL25A1, COL12A1, ADIPOQ, PCOLCE, COL1A1, COL3A1, C1QTNF1, COL1A2, COL4A2, LOX, C1QTNF6, SERPINH1, COL20A1, COL8A2, EMILIN2, COL6A3, COL6A6, COL9A2, CD36, MBL2	1703	92	20472	3.1359	0.0010	0.0001	0.0001
GOTERM_BP_DIRECT	GO:0042632~cholesterol homeostasis	24	1.3605	0.0000	ABCA1, CETP, ABCG8, XBP1, ABCA5, EPHX2, INSIG1, CAV1, NR1H4, APOA1, LPL, APOC3, HMGCR, ABCB11, CYP7B1, TSKU, CYP39A1, LRP5L, ACOX1, HNF4A, LIPG, ANGPTL3, APOB, LDLR	1629	104	19256	2.7279	0.0820	0.0071	0.0071
GOTERM_BP_DIRECT	GO:0007229~integrin-mediated signaling pathway	24	1.3605	0.0000	ITGB1, SRC, ITGA3, RCC2, ITGA2, APOA1, THY1, ADAMTS10, COL3A1, ADAMTS13, ITGA10, ITGA11, ANGPTL3, ITGA8, CTNNA1, ITGBL1, ITGB8, ADAM9, MYH9, ITGAV, ITGB1BP1, CD47, PRKD1, ITGB3BP	1629	110	19256	2.5791	0.1986	0.0148	0.0147

KEGG_PATHWAY	hsa03320:PPAR signaling pathway	24	1.3605	0.0000	HMGCS1, GK, ADIPOQ, AQP7, APOA1, ACSL5, LPL, APOC3, ACSL4, CYP8B1, FABP1, RXRA, SCD, ACOX1, EHHADH, PLIN4, OLR1, PLIN2, CD36, ACOX3, PPARA, ACAA1, SLC27A2, PLIN5	880	75	8156	2.9658	0.0007	0.0002	0.0002
KEGG_PATHWAY	hsa04146:Peroxisome	24	1.3605	0.0000	ABCD4, PECR, MVK, PEX11A, EPHX2, ACSL5, ACSL4, NUDT7, AMACR, ACOX1, PEX3, EHHADH, PXMP2, CAT, HACL1, HAO1, FAR1, ACOX3, MLYCD, PEX11G, ACAA1, XDH, SLC27A2, PAOX	880	82	8156	2.7126	0.0037	0.0006	0.0006
GOTERM_CC_DIRECT	GO:0005796~Golgi lumen	23	1.3039	0.0001	APP, LUM, SDC2, PDGFA, KERA, NGF, F2, HSPG2, HS3ST1, MMP11, F7, ACAN, VTN, F8, VCAN, F9, MMP16, SDC1, GPC5, ZG16, GPC4, AGRN, FMOD	1703	106	20472	2.6084	0.0412	0.0017	0.0016
KEGG_PATHWAY	hsa04610:Complement and coagulation cascades	23	1.3039	0.0001	FGB, SERPINA1, F11, FGG, F13A1, F2, CLU, F3, C8A, F7, VTN, F8, F9, C6, C7, PLAU, CFHR4, BDKRB2, SERPING1, CFHR5, CD59, MASP1, MBL2	880	85	8156	2.5079	0.0221	0.0022	0.0020
GOTERM_MF_DIRECT	GO:0005518~collage	22	1.2472	0.0000	DDR1, CCBE1, TNXB, SPARC, SMAD3, ITGA3, LUM, ITGA2, PDGFA, PCOLCE, AEBP1, USH2A, VTN, MMP13,	1666	68	18811	3.6530	0.0004	0.0001	0.0001

	n binding				C1QTNF1, LOX, ITGA10, CTSK, ITGA11, SERPINH1, ADAM9, RELL2							
GOTERM_MF_DIRECT	GO:0004497~monooxygenase activity	22	1.2472	0.0000	CYP4F3, FMO3, CYP7B1, CYP2C19, CYP3A5, CYP8B1, YWHAZ, CYP4F12, COQ6, CYP39A1, FOXRED2, CYP2C9, CYP2C8, CYP2B6, CYP2U1, CYP2A13, CYP4V2, AGMO, PAH, CYP1A2, CYP1A1, YWHAH	1666	76	18811	3.2685	0.0031	0.0006	0.0006
GOTERM_BP_DIRECT	GO:0007596~blood coagulation	22	1.2472	0.0000	FGB, ENTPD1, SERPINA1, SERPINE2, ITGA2, F11, SERPINA10, F13A1, AK3, F2, F3, F7, LMAN1, F8, F9, SCUBE1, PLAU, HNF4A, SERPING1, CD59, CD36, HGFAC	1629	88	19256	2.9552	0.0560	0.0058	0.0057
GOTERM_BP_DIRECT	GO:0008203~cholesterol metabolic process	21	1.1905	0.0000	ABCA1, CETP, APP, ABCA5, INSIG1, ERLIN1, APOA1, CYP7B1, TSKU, CYP2C9, RXRA, CYP1A2, CAT, APOC1, FDX1, ANGPTL3, LEPR, APOF, APOB, LDLR, SULT2A1	1629	82	19256	3.0273	0.0635	0.0060	0.0059
KEGG_PATHWAY	hsa01230:Biosynthesis of amino acids	21	1.1905	0.0001	SDS, PKLR, GPT2, SHMT1, MAT1A, SDSL, CS, CBS, CTH, PAH, PGK1, ACO1, ASL, ALDOB, NAGS, ALDOA, BCAT1, PFKM, PFKP, BCAT2, OTC	880	75	8156	2.5951	0.0298	0.0025	0.0023

KEGG_PATHWAY	hsa00280:Valine, leucine and isoleucine degradation	20	1.1338	0.0000	ACAD8, ACAA2, HMGCS1, BCKDHB, ABAT, ACADSB, ACAT1, ALDH3A2, ALDH6A1, PCCA, ALDH2, OXCT1, IVD, EHHADH, PCCB, BCAT1, ACAA1, ALDH7A1, HIBCH, BCAT2	880	48	8156	3.8617	0.0001	0.0000	0.0000
GOTERM_CC_DIRECT	GO:0031093~platelet alpha granule lumen	19	1.0771	0.0000	FGB, SERPINA3, APP, TGFB2, ORM1, SERPINA1, SPARC, HGF, FGG, PDGFA, F13A1, IGF1, CLU, THBS1, F8, ALB, SERPING1, QSOX1, ALDOA	1703	67	20472	3.4090	0.0049	0.0002	0.0002
GOTERM_CC_DIRECT	GO:0042470~melanosome	19	1.0771	0.0020	ITGB1, GSN, ANXA2, TFRC, TYRP1, SLC2A1, MYO5A, GGH, ANXA11, NAP1L1, ATP1B3, MYRIP, YWHAZ, SYPL1, CALU, MYH11, STX3, SLC24A5, RAN	1703	103	20472	2.2175	0.8068	0.0406	0.0382
GOTERM_BP_DIRECT	GO:0014068~positive regulation of phosphatidylin	19	1.0771	0.0002	PDGFRB, TGFB2, UNC5B, FLT3, SRC, HGF, PDGFA, TREM2, SEMA3E, IGF1, F2, NEDD4, PDGFC, CAT, KDR, FYN, TEK, SOX9, NKX3-1	1629	83	19256	2.7060	0.5983	0.0480	0.0477

	ositol 3-kinase signaling											
KEGG_PATHWAY	hsa05412:Arrhythmogenic right ventricular cardiomyopathy	19	1.0771	0.0011	ITGB1, ITGA3, ITGA2, LEF1, TCF7, CACNA1C, ACTG1, GJA1, CACNB3, SGCB, ITGA10, ITGA11, ITGA8, PKP2, CTNNA1, ITGB8, DSG2, ITGAV, CTNNA3	880	77	8156	2.2870	0.3131	0.0221	0.0202
GOTERM_MF_DIRECT	GO:0050660~flavin adenine dinucleotide binding	18	1.0204	0.0001	ACAD8, ETFDH, ETFA, FMO3, KMO, ACADSB, MTO1, FOXRED2, AIFM1, ACOX1, IVD, CHDH, LDHD, DPYD, NOS1, ACOX3, ACAD11, XDH	1666	68	18811	2.9888	0.1124	0.0119	0.0118
GOTERM_CC_DIRECT	GO:0043202~lysoso	18	1.0204	0.0022	PDGFRB, ARSA, LUM, SDC2, FUCA1, KERA, HSPG2, ACAN, NEU4, VCAN, CTSK, PPT1, SDC1, GPC5, GPC4, AGRN, APOB, FMOD	1703	96	20472	2.2540	0.8460	0.0435	0.0410

	mal lumen											
GOTERM_BP_DIRECT	GO:0030199~collagen fibril organization	17	0.9637	0.0000	TGFB2, TNXB, ANXA2, LUM, COL12A1, LOXL4, DPT, PLOD3, LOXL1, COL1A1, MMP11, ACAN, COL3A1, COL1A2, LOX, SERPINH1, FMOD	1629	60	19256	3.3492	0.1373	0.0114	0.0113
GOTERM_CC_DIRECT	GO:0098685~Schaffer collateral - CA1 synapse	17	0.9637	0.0020	ITGB1, EPHA4, GABBR1, CASK, SLC30A1, ADCY1, ACTG1, AKAP12, PTPRD, ABR, ADORA2B, CDH11, FYN, STX3, BSN, DGKI, SH3GL2	1703	87	20472	2.3490	0.8109	0.0406	0.0382
GOTERM_CC_DIRECT	GO:0045335~phagocytic vesicle	16	0.9070	0.0005	ABCA1, GSN, STXBP4, ANXA11, CLCN3, ACTG1, RAB31, RAB14, RAB23, KIF5B, RAB34, ITGAV, VIM, CD36, RAB9B, RAB11FIP5	1703	69	20472	2.7875	0.3144	0.0122	0.0115
GOTERM_MF_DIRECT	GO:0030170~pyridoxal phosph	16	0.9070	0.0001	PYGB, DDC, SDS, GLDC, AADAT, GPT2, SHMT1, ABAT, SDSL, CSAD, GCAT, SPTLC3, CBS, CTH, ALB, PNPO	1666	58	18811	3.1148	0.1887	0.0190	0.0188

	ate binding											
GOTERM_BP_DIRECT	GO:0022900~electron transport chain	16	0.9070	0.0001	DMGDH, CYB5A, NQO2, STEAP4, GLDC, SRD5A1, HAAO, ETFDH, AKR1C4, HSD17B6, QDPR, ALDH2, P4HA2, CYP1A2, FDX1, CYB561	1629	60	19256	3.1522	0.4442	0.0326	0.0324
KEGG_PATHWAY	hsa00071:Fatty acid degradation	16	0.9070	0.0000	ACAA2, ADH1B, ACSL5, ACSL4, ADH7, ACADSB, ACAT1, ALDH3A2, ADH4, CYP2U1, ALDH2, ACOX1, EHHADH, ACOX3, ACAA1, ALDH7A1	880	43	8156	3.4486	0.0076	0.0011	0.0010
KEGG_PATHWAY	hsa00561:Glycerolipid metabolism	16	0.9070	0.0020	MOGAT3, GK, GLYCTK, MBOAT2, LPL, AGPAT2, AGPAT3, AGPAT4, ALDH3A2, GPAM, ALDH2, LIPG, PNPLA3, ALDH7A1, LPIN2, DGKI	880	62	8156	2.3918	0.4835	0.0313	0.0286
GOTERM_CC_DIRECT	GO:0005778~peroxisomal membrane	15	0.8503	0.0012	ABCD4, PECR, PEX11A, ACSL4, HMGCR, SYT7, ALDH3A2, FNDC5, ACOX1, PEX3, PXMP2, CAT, FAR1, PEX11G, SLC27A2	1703	68	20472	2.6517	0.6391	0.0283	0.0267

KEGG_PATHWAY	hsa00380:Tryptophan metabolism	15	0.8503	0.0001	DDC, AADAT, HAAO, KMO, ACAT1, DHTKD1, ALDH3A2, ALDH2, EHHADH, CYP1A2, CAT, CYP1A1, ALDH8A1, IDO2, ALDH7A1	880	42	8156	3.3101	0.0250	0.0023	0.0021
GOTERM_CC_DIRECT	GO:0005782~peroxisomal matrix	14	0.7937	0.0003	EPHX2, FABP1, GRHPR, NUDT7, AMACR, ACOX1, EHHADH, CAT, HACL1, HAO1, ACOX3, MLYCD, ACAA1, PAOX	1703	53	20472	3.1754	0.2272	0.0089	0.0084
KEGG_PATHWAY	hsa04979:Cholesterol metabolism	14	0.7937	0.0019	ABCA1, CETP, ABCG8, APOA1, LPL, APOC3, ABCB11, APOH, LIPG, APOC1, ANGPTL3, CD36, APOB, LDLR	880	50	8156	2.5951	0.4778	0.0313	0.0286
GOTERM_BP_DIRECT	GO:0033627~cell adhesion mediated by integrin	13	0.7370	0.0001	ITGB1, ITGA3, ITGA2, VTN, ITGA10, ITGA11, ITGA8, EMILIN2, ITGBL1, ITGB8, ADAM9, ITGAV, FBN1	1629	40	19256	3.8417	0.3483	0.0252	0.0250

KEGG_PATHWAY	hsa00410:beta-Alanine metabolism	13	0.7370	0.0000	ABAT, CSAD, CNDP1, ALDH3A2, ALDH6A1, ALDH2, ACOX1, EHHADH, DPYD, ACOX3, MLYCD, ALDH7A1, HIBCH	880	31	8156	3.8867	0.0153	0.0019	0.0018
KEGG_PATHWAY	hsa00260:Glycine, serine and threonine metabolism	13	0.7370	0.0007	DMGDH, SDS, GLDC, SHMT1, GLYCTK, SDSL, GCAT, GRHPR, BHMT, CBS, CTH, CHDH, ALDH7A1	880	40	8156	3.0122	0.2173	0.0175	0.0160
GOTERM_CC_DIRECT	GO:0014704~intercalated disc	12	0.6803	0.0019	GJC1, ITGB1, GJA1, TMEM65, SLC31A1, GJA5, SLC2A1, PKP2, CTNNA1, DSG2, ATP1B1, YWHAH	1703	49	20472	2.9440	0.7988	0.0406	0.0382
KEGG_PATHWAY	hsa00630:Glyoxylate and dicarboxylate	11	0.6236	0.0008	CS, GRHPR, PCCA, GLDC, SHMT1, GLYCTK, PCCB, CAT, ACO1, HAO1, ACAT1	880	30	8156	3.3983	0.2371	0.0180	0.0165

	metabolism											
KEGG_PATHWAY	hsa00640:Propanoate metabolism	11	0.6236	0.0014	ALDH6A1, PCCA, ACOX1, EHHADH, BCKDHB, PCCB, ABAT, ACOX3, MLYCD, ACACB, HIBCH	880	32	8156	3.1859	0.3788	0.0264	0.0242
GOTERM_BP_DIRECT	GO:0055091~phospholipid homeostasis	9	0.5102	0.0000	ABCA1, CETP, GPAM, HNF4A, ABCA3, LIPG, ANGPTL3, APOA1, ABCB11	1629	17	19256	6.2580	0.1605	0.0125	0.0124
GOTERM_CC_DIRECT	GO:0008305~integrin complex	9	0.5102	0.0015	ITGB1, ITGA3, ITGA10, ITGA2, ITGA11, ITGA8, ITGB8, ITGBL1, ITGAV	1703	28	20472	3.8639	0.7223	0.0337	0.0318
KEGG_PATHWAY	hsa00770:Pantothenate and CoA biosynthesis	9	0.5102	0.0010	ALDH3A2, VNN1, ALDH2, PANK1, DPYD, ENPP3, CSAD, BCAT1, BCAT2	880	21	8156	3.9721	0.2846	0.0209	0.0191

GOTERM_CC_DIRECT	GO:0071162~CMG complex	7	0.3968	0.0001	GINS1, GINS2, GINS3, GINS4, MCM4, MCM6, MCM2	1703	11	20472	7.6498	0.0835	0.0034	0.0032
GOTERM_CC_DIRECT	GO:0000811~GINS complex	4	0.2268	0.0022	GINS1, GINS2, GINS3, GINS4	1703	4	20472	12.0211	0.8334	0.0426	0.0402