

Table S4 Top 30 GO terms of DEGs in liver tissues.

Category	Term	p-value	Enrichment_score	Genes
BP	triglyceride catabolic process	0.000178092	26.0729927	APOA1;APOC3;LPL
BP	peripheral nervous system development	0.000229896	24.06737788	ARTN;NTF3;SOX8
BP	cochlea development	0.00063329	17.38199513	OTOF;SLC17A8;SLITRK6
BP	cholesterol homeostasis	0.000747033	9.701578679	APOA1;APOC3;LIPG;LPL
BP	synapse assembly	0.000888659	9.270397405	ADGRL3;DSCAM;LOC100857645;SLITRK6
BP	positive regulation of synapse assembly	0.000888659	9.270397405	LRRN3;SLITRK4;SLITRK5;SLITRK6
BP	lipoprotein metabolic process	0.00089561	41.71678832	APOA1;APOC3
BP	reverse cholesterol transport	0.00089561	41.71678832	APOA1;LIPG
BP	axonogenesis	0.001135089	8.690997567	NTNG2;SLITRK4;SLITRK5;SLITRK6
BP	cholesterol efflux	0.001334971	34.76399027	APOA1;APOC3
CC	chylomicron	1.69E-05	52.1459854	APOA1;APOC3;LPL
CC	high-density lipoprotein particle	0.00185722	29.79770594	APOA1;SAA
CC	synaptic vesicle membrane	0.00229894	7.192549711	AMPH;LOC101748017;OTOF;SLC17A8
CC	very-low-density lipoprotein particle	0.002460751	26.0729927	APOC3;LPL
CC	perikaryon	0.013626146	4.345498783	ASTN1;NGB;RBFOX3;SLC17A8
CC	microtubule	0.013952252	2.754882248	DNAI1;LOC107057474;MAP1LC3C;MID1IP1;MTUS2;SPAG17;TTLL8
CC	integral component of membrane	0.016960188	1.391047698	ADRA2C;ARMH4;ASTN1;CABP7;CERS6;EVC;FAT2;FNDC5;GIPR;KCNQ3;KCNQ1;LOC100857645;LOC101748017;LOC101751912;LOC107053308;LOC107055405;LOC107057474;LOC121108173;LOC430746;LOC768416;LRRN3;MAL2;MEGF11;MHCY15;OTOF;PMEPA1;PTCHD4;SLC17A8;SLC30A2;SLC4A9;SLC5A9;SLITRK4;SLITRK5;SYNDIG1L;TMEM221;TMEM74B;TRPM5;XKR5
CC	plasma membrane	0.020022916	1.411595146	ADRA2C;ALDH1A3;AMPH;CABP7;CLEC5A;CNR1;FAT2;FNDC5;GIPR;GLRA2;ITGB6;KCNQ3;KCNQ1;LOC101748017;LOC107050775;LOC107055405;LOC121108173;LOC430746;LPL;MHCY15;NPFFR1;NTNG2;OTOF;PARD6A;RXFP3;SLC1A7;SLC30A2;SLC5A9;SLITRK4;SLITRK5;SLITRK6;STAP2;STK32A;TRPM5
CC	spindle microtubule	0.020242401	9.068867026	ARL2;LOC768589
CC	extracellular space	0.026858124	1.769803141	APOA1;ART1L3;ARTN;C2orf88;IL8L1;LIPG;LPL;MATN1;NDP;NPPC;NTF3;STC1;TNFAIP6;WNT7A
MF	symporter activity	0.000966122	9.068867026	SLC16A6;SLC17A8;SLC1A7;SLC4A9
MF	cholesterol transporter activity	0.002460751	26.0729927	APOA1;STAR
MF	growth factor activity	0.00311149	5.062717029	ARTN;C2orf88;FGF14;IL8L1;NTF3
MF	L-glutamate transmembrane transporter activity	0.003905346	20.85839416	SLC17A8;SLC1A7
MF	calcium ion binding	0.005046834	2.356880696	ADGRL3;CABP7;CAPN13;FAT2;GUCA1A;LOC100857645;LOC124416950;LTBP2;MATN1;OTOF;PPEF2;TLL1
MF	phospholipid binding	0.005542943	5.637403827	AMPH;APOA1;APOC3;PACSIN1
MF	cytokine activity	0.012240965	4.485676164	C2orf88;IL8L1;NDP;WNT7A
MF	heparin binding	0.013153858	4.391240876	C2orf88;LIPG;LPL;LTBP2
MF	delayed rectifier potassium channel activity	0.018597594	9.481088255	KCNQ3;KCNQ1
MF	hormone activity	0.019833514	5.21459854	FNDC5;NPPC;STC1