

Table S2

Significant functional categories based on common genes regulated by Tcfap2c in liver and hepatocyte cultures

Category	B-H p-value	Common regulated genes (red = upregulated, black = downregulated)
Lipid Metabolism	3.9E-12-1.18E-01	PPARA, LIPC, SLC27A2, APOC4, VTN, PLA1A , PLA2G7 , ATP8B1, MTPP, POR, FDFT1, SOAT2 , PLCE1, ALDH1A1, LPIN1, FGFR4, SULT1E1 , BAAT, AMACR, GLYAT, ALDH8A1, SLC01A2, ACOT12, PLSCR2, ABCB1B , ACADS, PLA2G6 , ALDH1A7, GCK, FADS2, SIK1 , ACOT4, MLYCD, CYP2B6, CPS1, AGTR1, FADS1, ANGPTL3, ADM , IGFBP4, SLC10A1, APOF, ADH1C, PROX1, ACOT7, MOGAT1 , AVPR1A, SGMS1 , AADAC, MTOR , IGF1, PPAP2B, AGPAT2 , CEBPA, UGT2B17, ADORA1, ACE , UCP2 , CYP27A1, COTL1 , PPARD , HSD17B7, G6PD , COL4A3BP , UGT2B10, FDPS, GULO, GHR, CYP3A4, ABCB4, SULT1A1, CAT, FKBP4, UGT2B15, G6PC , RDH5 , AOX1, DGAT1 , LGALS1 , ADH4
Small Molecule Biochemistry	3.9E-12-1.18E-01	TGFBR1 , LIPC, DPYD, SLC27A2, VTN, APOC4, PLA1A , ATP8B1, POR, LPIN1, HAL , UOX, SULT1E1 , BAAT, AMACR, PAH, ACOT12, PLSCR2, ONECUT1, PLA2G6 , FADS2, SIK1 , CYP2B6, CPS1, EPHX1, ADM , ALDH4A1, SLC10A1, PROX1, AVPR1A, SGMS1 , MTOR , IGF1, PPAP2B, CEBPA, ADORA1, UCP2 , COL4A3BP , FAH, SLC43A2 , GULO, ABCB4, SULT1A1, FKBP4, DGAT1 , AOX1, PPARA, HEBP1, PLA2G7 , CDA , MTPP, FGFR3 , FDFT1, SOAT2 , ALDH1A1, PLCE1, FGFR4, GLYAT, ALDH8A1, SLC01A2, SLC1A1 , ABCB1B , ACADS, ALDH1A7, GCK, SLC7A2, ACOT4, PDK2, MLYCD, AGTR1, ANGPTL3, FADS1, ARG1, IGFBP4, APOF, ADH1C, ACOT7, MOGAT1 , AADAC, AGPAT2 , UGT2B17, SLC25A15, PDK1, ACE , SRC , DPP4, PXN , SLC25A13, HPD, CYP27A1, PPARD , COTL1 , AQP11, HSD17B7, G6PD , UGT2B10, SCLY, FDPS, GHR, CYP3A4, CAT, UGT2B15, G6PC , RDH5 , GLDC, CYP2A6, A1CF, LGALS1 , ADH4
Vitamin and Mineral Metabolism	3.61E-10-1.18E-01	ADM , LIPC, APOF, ADH1C, PROX1, ATP8B1, MTPP, POR, FDFT1, SOAT2 , ALDH1A1, UGT2B17, SULT1E1 , BAAT, AMACR, CYP27A1, PPARD , G6PD , HSD17B7, ALDH8A1, FDPS, CYP3A4, ALDH1A7, CAT, UGT2B15, G6PC , DGAT1 , AOX1, RDH5 , CYP2B6, ANGPTL3, ADH4
Hepatic System Disease	1.71E-08-1.18E-01	PPARA, LIPC, DPYD, VTN, SLC17A1 , ATP8B1, MTPP, FGFR3 , POR, FDFT1, SOAT2 , ALDOB, LPIN2, BAAT, PAH, TDO2, SLC01A2, IFNAR2, VKORC1, EPHA2 , AGTR1, EPHX1, SLC10A1, ADH1C, IQGAP1, AVPR1A, CASP6, AADAC, MTOR , JUN , IGF1, TUBA8 , STEAP2 , ALPL , ACE , SRC , GSTM1, SLC25A13, HPD, CYP27A1, UGT2B10, GHR, ABCB4, SULT1A1, CAT, CRP, UGT2B15, DGAT1 , ADH4
Molecular Transport	1.04E-05-1.18E-01	PPARA, LIPC, SLC27A2, APOC4, HEBP1, PLA1A , MTPP, ATP8B1, POR, LIFR, FDFT1, SOAT2 , ALDH1A1, LPIN1, FGFR4, SULT1E1 , ALDH8A1, SLC01A2, SLC1A1 , PLSCR2, ABCB1B , PLA2G6 , GCK, SLC7A2, FADS2, SIK1 , CYP2B6, ANGPTL3, KLF15, ADM , SLC10A1, APOF, ADH1C, AVPR1A, SGMS1 , AADAC, MTOR , IGF1, SLC2A2, AGPAT2 , CEBPA, SLC25A15, ADORA1, ACE , SLC25A13, UCP2 , CYP27A1, PPARD , AQP11, G6PD , SLC43A2 , GHR, GULO, CYP3A4, ABCB4, CAT, FKBP4, G6PC , RDH5 , DGAT1 , LGALS1 , ADH4
Drug Metabolism	4.73E-05-1.18E-01	ADM , IGFBP4, GSTM5, VTN, ADH1C, POR, GSTM2, ALDH1A1, IGF1, GSTM3 (includes EG:14864), GSTM4, UGT2B17, SULT1E1 , GSTA3, GSTM1, ALDH8A1, HSD17B7, ABCB1B , CYP3A4, ABCB4, ALDH1A7, SULT1A1, RDH5 , CYP2B6, CYP2A6, ADH4
Endocrine System Development and Function	4E-04-1.18E-01	ADM , IGFBP4, TGFBR1 , HSD17B7, NRG4, ONECUT1, POR, IGF1, CYP3A4, ALDH1A7, SULT1A1, UGT2B17, SULT1E1 , CYP2B6
Metabolic Disease	7.85E-04-1.18E-01	TGFBR1 , LIPC, DDC, TFR2, SLC17A1 , MLLT4 , ATP8B1, POR, HAL , LPIN1, PAH, AMACR, RNMT , TAT, PLSCR2, ONECUT1, PLA2G6 , VKORC1, FADS2, RPS6KA1 , CPS1, ALDH4A1, SLC10A1, DAPK2 (includes EG:23604), PROX1, AVPR1A, XYLB, ARHGEF19 , MTOR , IYD, IGF1, TUBA8 , CEBPA, ADORA1, CLYBL, UCP2 , FAH, PGCP, FAM114A1, FGGY, FKBP4, DGAT1 , CTH, MYO1E , PPARA, ARHGAP26 , HMGCS2, CDA , MTPP, FLVCR1 , FDFT1, SOAT2 , ALDH1A1, RIPK4 , SLC1A1 , ACADS, GYS2, TMCC3 , GCK, ITIH5, AUH, SAMM50, MLYCD, AGTR1, ARG1, TBC1D22A , PKLR, RAPGEF4, ACOT7, CLIC4 , IQGAP1, MCM4 , STEAP2 , AGPAT2 , SLC2A2, SLC25A15, ALPL , ACE , MMP19, TPMT, NDUFAF4, DPP4, SLC25A13, HPD, CYP27A1, PPARD , TCF7L1 , SCLY, FDPS, PMP22 , GHR, CRP, FAM135A , DBT, G6PC , CYB5A, GLDC, CYP2A6
Amino Acid Metabolism	3.06E-03-1.18E-01	BAAT, SRC , DPP4, PAH, ALDH4A1, PXN , SLC25A13, TGFBR1 , HPD, SLC1A1 , FAH, SCLY, FGFR3 , SLC43A2 , MTOR , GHR, HAL , IGF1, SLC7A2, CEBPA, SLC25A15, GLDC, ARG1