**Supplementary Table 1. List of 176 common upregulated genes among hepatocellular carcinoma datasets.**

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| **Gene** |
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| **CCNB1** |
| **SMYD3** |
| **FOXM1** |
| **CDK1** |
| **MAD2L1** |
| **ATP6V1C1** |
| **SOX9** |
| **KIF4A** |
| **SQLE** |
| **TCF19** |
| **ACLY** |
| **TYMS** |
| **TMEM106C** |
| **MELK** |
| **PTP4A3** |
| **PODXL** |
| **RBP7** |
| **NDC80** |
| **OIP5** |
| **CCNA2** |
| **STMN1** |
| **CKS2** |
| **TP53I3** |
| **KIF23** |
| **ANXA2** |
| **SERPINI1** |
| **CCNB2** |
| **PRC1** |
| **LGALS3** |
| **CENPW** |
| **G6PD** |
| **TXNRD1** |
| **MCM2** |
| **MCM4** |
| **LRRC1** |
| **RAP2A** |
| **GPC3** |
| **CENPK** |
| **DTNA** |
| **LAPTM4B** |
| **NEK2** |
| **FANCD2** |
| **PSPH** |
| **B3GNT5** |
| **C1orf106** |
| **CLGN** |
| **SOX4** |
| **GPNMB** |
| **AKR1B10** |
| **EZH2** |
| **ENAH** |
| **CAPG** |
| **ROBO1** |
| **MPZL1** |
| **MCAM** |
| **SFN** |
| **CDC20** |
| **RFC4** |
| **KDELR3** |
| **BUB1** |
| **TRIP13** |
| **RGS5** |
| **UBE2S** |
| **UBE2C** |
| **MND1** |
| **ACSM1** |
| **RRM2** |
| **TOP2A** |
| **FEN1** |
| **HELLS** |
| **FANCI** |
| **SPARCL1** |
| **MAP2** |
| **S100A10** |
| **CAP2** |
| **FAM83D** |
| **MCM6** |
| **LCN2** |
| **SPARC** |
| **PEG10** |
| **CTHRC1** |
| **CDKN2A** |
| **NOTCH3** |
| **TRNP1** |
| **CDKN3** |
| **CENPM** |
| **CENPF** |
| **KRT23** |
| **CDCA8** |
| **TKT** |
| **TPX2** |
| **C15orf48** |
| **NSMCE2** |
| **GINS1** |
| **ZIC2** |
| **KPNA2** |
| **ANLN** |
| **BIRC5** |
| **FABP5** |
| **SORT1** |
| **RACGAP1** |
| **CDC6** |
| **SULT1C2** |
| **AURKA** |
| **AURKB** |
| **PAFAH1B3** |
| **C1orf198** |
| **NEDD4L** |
| **BEX2** |
| **EPS8L3** |
| **THY1** |
| **SPP1** |
| **ITGA6** |
| **ZWINT** |
| **NUF2** |
| **PTTG1** |
| **TARBP1** |
| **CDCA5** |
| **UBE2T** |
| **ECT2** |
| **IQGAP3** |
| **COL4A2** |
| **IGF2BP2** |
| **PDGFA** |
| **NT5DC2** |
| **DLGAP5** |
| **RAD51AP1** |
| **COL4A1** |
| **MKI67** |
| **LYZ** |
| **CDKN2C** |
| **MUC13** |
| **PLVAP** |
| **KIAA0101** |
| **ACSL4** |
| **TP53BP2** |
| **SPINK1** |
| **RFX5** |
| **FLVCR1** |
| **COL15A1** |
| **TRIM31** |
| **CDC25C** |
| **TUBA1B** |
| **MCM3** |
| **NCAPG2** |
| **KIF2C** |
| **VWF** |
| **PBK** |
| **SPATS2** |
| **LAMC1** |
| **NCAPH** |
| **TK1** |
| **ASPM** |
| **CDCA3** |
| **SRXN1** |
| **LOXL2** |
| **ATAD2** |
| **PEA15** |
| **STXBP6** |
| **CKAP2** |
| **MDK** |
| **SPC25** |
| **MSH2** |
| **BUB1B** |
| **OLFML2B** |
| **HJURP** |
| **RNASEH2A** |
| **DTL** |
| **HMMR** |
| **GMNN** |
| **KIF20A** |
| **LAMA4** |
| **RNF157** |
| **HKDC1** |
| **NCAPG** |
| **NUSAP1** |

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