

SUPPLEMENTARY TABLES

Supplementary Table 1. HCC datasets used in this study.

ID	Brief introduction	Platform	No. of samples	Note*
GSE9843	Gene expression profiling of 91 hepatocellular carcinomas with hepatitis C virus etiology	GPL570	91	
GSE55092	Viral Expression and Molecular Profiling in Liver Tissue versus Microdissected Hepatocytes in Hepatitis B Virus - Associated Hepatocellular Carcinoma	GPL570	140	20 profiles from laser capture-microdissected (LCM) hepatocytes
GSE62232	Large-scale gene expression profiling of 81 hepatocellular carcinomas	GPL570	81	
GSE45267	Gene expression profiles of human hepatocellular carcinoma (training set 1)	GPL570	87	
GSE45435	Gene expression profiles of human hepatocellular carcinoma (validation set)	GPL570	31	
GSE6764	Genome-wide molecular profiles of HCV-induced dysplasia and hepatocellular carcinoma	GPL570	75	10 normal liver tissues;10 cirrhotic liver tissues;3 cirrhotic liver tissue from patients without HCC;10 low-grade dysplastic liver tissues;7 high-grade dysplastic liver tissues
GSE17548	Expression data from cirrhosis and HCC tissue samples	GPL570	30	
GSE6222	Genome-wide analysis of gene expression patterns in human liver cancers	GPL570	13	3 cell lines
GSE40873	Low SLC22A7 expression in noncancerous liver promotes hepatocellular carcinoma occurrence - a prospective study	GPL570	49	49 noncancerous liver tissues of HCC patients within Milan criteria
GSE15765	Identification of cholangiocarcinoma-like gene expression traits in hepatocellular carcinoma	GPL571	90	13 cholangiocarcinoma; 7 combined hepatocellular carcinoma and cholangiocarcinoma
GSE17967	RMA expression data for liver samples from subjects with HCV cirrhosis with and without concomitant HCC	GPL571	63	47 cirrhosis
GSE14520	Gene expression data of human hepatocellular carcinoma (HCC)	GPL571;GPL3921	488	
GSE14323	RMA expression data for liver samples from subjects with HCV, HCV-HCC, or normal liver	GPL96;GPL571	124	GPL571: 19 Normal;41 cirrhosis; 17 cirrhosisHCC; 12 HCC
GSE35306	Combined hepatocellular-cholangiocarcinomas exhibit progenitor features and activation of Wnt and TGFbeta signaling pathways	GPL6244	30	3 intrahepatic cholangiocarcinoma;20 combined hepatocellular-cholangiocarcinoma;7 HCC
GSE64041	Gene expression profiling in paired human hepatocellular carcinoma and liver parenchyma biopsies and normal liver biopsies.	GPL6244	65	60HCC; 5 healthy liver biopsies

GSE36376	Gene Expression Profiles of both tumor and adjacent non-tumor liver Identify Hepatocellular Carcinoma Patients at High Risk of Recurrence after Curative Hepatectomy	GPL10558	433
GSE76427	Microarray expression data for tumor and adjacent non-tumor tissues from hepatocellular carcinoma patients	GPL10558	167
GSE39791	Hepatic regeneration gene expression signature predicts late recurrence of hepatocellular carcinoma	GPL10558	144
GSE43619	Activation of beta-catenin in hepatocellular carcinoma (HCC patients)	GPL10558	88
GSE57957	Expression profile of Hepatocellular Carcinoma	GPL10558	78
GSE60502	Gene expression profiling of 18 hepatocellular carcinoma and adjacent non-tumorous liver tissue	GPL96	36

*Gene expression profiles from cell lines, hepatocytes, and cholangiocarcinoma were excluded.

Please browse Full Text version to see the data of Supplementary Tables 1 and 2.

Supplementary Table 2. Differentially expressed genes in HCC6.

Supplementary Table 3. MRA analysis on the filtered transcriptional network constructed for HCC6.

Supplementary Table 4. HCC subtype-related MRs.

Supplementary Table 5. HCC etiology-related MRs.

Supplementary Table 6. Regulons: MRs and their targets.

Supplementary Table 7. MR-based survival test.

Supplementary Table 8. Summary of previous knowledge of MRs.