

Supplementary Materials and methods

Experimental cell lines. The study assembled 3 pairs of HCSC sublines (Huh7-C, Hep3B-C and MHCC97H-C) and case-matched human HCC cells (Hep3B, Huh7 and MHCC97H) for RNA sequencing (RNA-Seq) (Table I). The HCSC sublines were previously demonstrated to have a reinforcement of stem cell properties, an induction of drug resistance, an emergence of EMT properties, and an enhancement of tumor-initiating capabilities (1).

RNA sequencing. RNA sequencing was produced by Beijing Genomics Institute (BGI, Beijing, China). Total RNA was extracted and treated with DNase I. Subsequently, mRNA from total RNA was enriched with oligo (dT) magnetic beads for eukaryotes, following fragmented into about 200 bp short fragments by mixing with the fragmentation reagents. The random hexamer-priming was used to synthesize the first strand cDNA, the DNA polymerase I, dNTPs and RNase H were used to synthesize the second strand, the double stranded cDNA was purified with magnetic beads, and the end repair and 3'-end single nucleotide A addition were carried out. Then, the adapter-modified fragments were enriched for using PCR amplification. To monitor the quantification and qualification of DNA sample library, a quality control procedure was processed with Agilent 2100 Bioanaylzer and ABI StepOnePlus RT-PCR System. The captured DNA library was sequenced to a depth of 30-fold coverage with the Illumina HiSeq™ 2000 Analyzer.

Raw sequence preprocessing. To obtain high quality reads for further analysis, data filtering was performed by adaptor sequences to remove the low quality reads, which were defined when the percentage of unknown bases (N) is more than 10% or the percentage of bases (with quality value of 5 or less than 5) is greater than 50% in a read. The clean reads were mapped to reference genomes and sequences with SOAP software (2).

To exclude the effect of sequencing discrepancy and various gene length, gene expression levels were normalized by RPKM algorithms (Reads Per kb per Million reads), which makes transcripts across multiple samples comparable (3).

Data mining. The differentially expressed genes (DEGs) between HCSCs and case-matched hepatic cancer cells were analyzed by the Fold Change method (cutoff >2 or cutoff <0.5). Subsequently, genes with coherent differential expression (coherent up- or down-regulated in Huh7-C, Hep3B-C and MHCC97H-C, referred as meta-DEGs) were selected, and overlapping number of genes was calculated among three cell-lines datasets by using Venny tool and described as Venn diagram.

Hierarchical gene clustering was conducted with Cluster 3.0 software (4). Euclidean distance similarity metric and average linkage clustering method was used to measure the gene patterns. TreeView software was used to show the clustering map.

Enrichment analysis was used to study the function and mechanisms of DEGs. Onto-express tool was used to identify significantly enriched gene function in Gene Ontology (GO) database. Gene Ontology functional classification was performed using WEGO software¹⁶ to classify GO function for DEGs. To identify the known pathways with significant accretions with

DEGs in HCSCs, we performed pathway enrichment analysis using Pathway-Express software in KEGG database (5). Hypergeometric test for the statistical scenario was used to screen GO terms or pathways that were significantly enriched in DEGs compared to the genomic background. The candidate GO terms or pathways with corrected P-value less than 0.05 were considered to be significantly enriched.

miRNA targets prediction. To analyze the interaction between miRNAs and genes, we compared the results from 6 existing miRNA-target prediction programs including DIANA-microT v4.0 (6), miRanda-rel2010 (7), miRDB4.0 (8), miRWALK2.0 (9), RNAhybrid2.1 (10), PicTar4 (11), PITA (12), RNA22v2 (13), and Targetscan6.2 (14). Candidate paired miRNA and DEGs which have at least five sources were considered for further analysis.

miRNA expression detection. The differential expression of miRNAs in cancer stem cells and their parental cell lines was detected by RT-qPCR (reverse transcription-quantitative polymerase chain reaction) using Eastep™ RT Master Mix (5X) (Promega, Madison, WI, USA).

Experimental validation. Perl scripts were run for text-mining searches in the Entrez PubMed database.

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Figure S1. The expression of miR-338 and miR-450b in Hep3B, Hep3B-C, Huh7 and Huh7-C cells. The miRNAs were identified by RNA-seq and validated by reverse transcription-quantitative polymerase chain reaction. Data are presented as the mean \pm standard deviation of three independent experiments in triplicate. ***P<0.001, compared with the parental cells by Student's t-test. HCSCs, hepatic cancer stem-like cells.

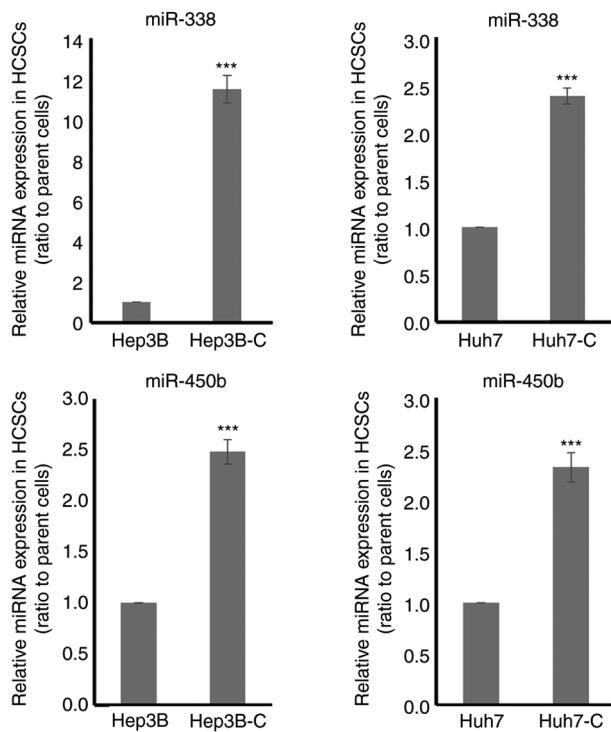


Table SI. Biological process.

GO identity	Gene Ontology term	Input	Reference	Corrected P-value
GO:0010467	Gene expression	37	3,103	0.001099062
GO:0016126	Sterol biosynthetic process	8	38	0.001099062
GO:0006139	Nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	44	3,370	0.001099062
GO:0034960	Cellular biopolymer metabolic process	81	5,248	0.001099062
GO:0006695	Cholesterol biosynthetic process	7	30	0.001099062
GO:0043284	Biopolymer biosynthetic process	34	2,804	0.001099062
GO:0034961	Cellular biopolymer biosynthetic process	34	2,804	0.001099062
GO:0016125	Sterol metabolic process	11	89	0.001250294
GO:0016070	RNA metabolic process	31	2,609	0.001250294
GO:0044260	Cellular macromolecule metabolic process	85	5,348	0.001592897
GO:0043283	Biopolymer metabolic process	84	5,295	0.001592897
GO:0008299	Isoprenoid biosynthetic process	5	14	0.001592897
GO:0008203	Cholesterol metabolic process	10	80	0.002012175
GO:0006955	Immune response	27	493	0.003880617
GO:0006959	Humoral immune response	8	57	0.004970173
GO:0043170	Macromolecule metabolic process	90	5,432	0.004970173
GO:0007155	Cell adhesion	32	653	0.004970173
GO:0022610	Biological adhesion	32	653	0.004970173
GO:0034645	Cellular macromolecule biosynthetic process	42	2,999	0.008015554
GO:0006958	Complement activation, classical pathway	5	23	0.013541813
GO:0006396	RNA processing	1	465	0.01803579
GO:0022409	Positive regulation of cell-cell adhesion	3	6	0.018498285
GO:0009059	Macromolecule biosynthetic process	44	3,012	0.018498285
GO:0022407	Regulation of cell-cell adhesion	4	15	0.023150183
GO:0006259	DNA metabolic process	1	444	0.023171188
GO:0002455	Humoral immune response mediated by circulating immunoglobulin	5	27	0.023171188
GO:0050778	Positive regulation of immune response	8	78	0.026122247
GO:0006694	Steroid biosynthetic process	8	78	0.026122247
GO:0030155	Regulation of cell adhesion	8	78	0.026122247
GO:0006720	Isoprenoid metabolic process	5	29	0.027528366
GO:0006956	Complement activation	5	29	0.027528366
GO:0051891	Positive regulation of cardioblast differentiation	2	2	0.028882576
GO:0051890	Regulation of cardioblast differentiation	2	2	0.028882576
GO:0006996	Organelle organization	10	1,062	0.029480667
GO:0002541	Activation of plasma proteins involved in acute inflammatory response	5	31	0.033594311
GO:0008202	Steroid metabolic process	12	174	0.035737438
GO:0007162	Negative regulation of cell adhesion	5	32	0.036960371
GO:0002376	Immune system process	31	733	0.039915385
GO:0010468	Regulation of gene expression	34	2,371	0.041178238

P<0.05 was considered to indicate a statistically significant difference, using Fisher's exact test.

Table SII. Cellular component.

GO identity	Gene Ontology term	Input	Reference	Corrected P-value
GO:0005634	Nucleus	63	4,565	5.32202E-05
GO:0043227	Membrane-bounded organelle	119	7,020	0.000329916
GO:0043231	Intracellular membrane-bounded organelle	119	7,017	0.000329916
GO:0043226	Organelle	137	7,757	0.000456153
GO:0043229	Intracellular organelle	137	7,755	0.000456153
GO:0044421	Extracellular region part	33	637	0.000494468
GO:0044424	Intracellular part	171	9,201	0.000532589
GO:0005622	Intracellular	179	9,502	0.000725465
GO:0005576	Extracellular region	54	1,339	0.000943868
GO:0005615	Extracellular space	21	403	0.010705368
GO:0031012	Extracellular matrix	16	272	0.01279055
GO:0030529	Ribonucleoprotein complex	1	406	0.013810908
GO:0005581	Collagen	5	32	0.013810908
GO:0044420	Extracellular matrix part	8	86	0.013810908
GO:0044422	Organelle part	61	3,736	0.013810908
GO:0005578	Proteinaceous extracellular matrix	15	258	0.014140587
GO:0044446	Intracellular organelle part	61	3,720	0.014140587
GO:0032991	Macromolecular complex	29	2,090	0.014340084
GO:0070013	Intracellular organelle lumen	16	1,368	0.014723881
GO:0044428	Nuclear part	17	1,411	0.01678892
GO:0005654	Nucleoplasm	5	665	0.020509003
GO:0030286	Dynein complex	4	27	0.034704122
GO:0042995	Cell projection	18	386	0.03906214
GO:0031974	Membrane-enclosed lumen	19	1,429	0.04359791
GO:0044463	Cell projection part	6	68	0.045073273
GO:0031981	Nuclear lumen	13	1,080	0.048770976

P<0.05 was considered to indicate a statistically significant difference, by a Fisher's exact test.

Table SIII. Molecular function.

GO identity	Gene Ontology term	Input	Reference	Corrected P-value
GO:0003676	Nucleic acid binding	35	2,778	0.006434777
GO:0016705	Oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen	11	103	0.006434777
GO:0004497	Monooxygenase activity	8	77	0.034238087
GO:0004115	3',5'-cyclic-AMP phosphodiesterase activity	3	7	0.034238087
GO:0004421	Hydroxymethylglutaryl-CoA synthase activity	2	2	0.034238087
GO:0004053	Arginase activity	2	2	0.034238087
GO:0016297	Acyl-[acyl-carrier-protein] hydrolase activity	2	2	0.034238087
GO:0004320	Oleoyl-[acyl-carrier-protein] hydrolase activity	2	2	0.034238087

P<0.05 was considered to indicate a statistically significant difference, by Fisher's exact test.

Table SIV. DEGs between carcinoma stem-like cells and tumor cells by RNA-seq.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B-C/ Hep3B		Huh7-C/ FDR		Huh7-C/ Huh7		Huh7-C/Huh7 FDR		MHCC97-H-C/ MHCC97-H		MHCC97-H-C/ FDR		
		Hep3B	Hep3B-C	Hep3B	Hep3B-C	Huh7	FDR	Huh7	FDR	Huh7-C	Huh7	FDR	Huh7-C/Huh7	FDR	MHCC97-H-C	MHCC97-H
163183	C19orf46	2.2404545	13.0011570	5.8029106	0.0000003	0.0010000	0.4492095	449.2095174	0.2329616	0.0010000	1.5673397	15.673397141	0.0063164	1.349.3131282	0.2853181	
285033	LOC285033	0.0010000	0.4011690	401.1690388	0.8006126	0.0010000	1.2890724	1.289.0723767	0.2334129	0.0010000	1.349131	1.349.3131284	0.1023050	1.329947684	0.1021635	
284422	C19orf77	6.0837715	15.6588470	2.5738716	0.00057381	0.2427150	1.0164932	4.1880120	0.3601429	0.0010000	1.3299498	1.329947684	0.4556942	658.4706923	0.4556942	
55301	OLAH	0.0010000	0.4668534	469.198533781	0.2337161	0.1201664	0.6290729	5.2350150	0.2239739	0.0010000	0.6584707	658.4706923	0.1021635	398.2309150	0.4556942	
728402	TP1P3	0.0010000	0.3551983	355.1983081	0.5340405	0.0010000	0.1902288	190.2258495	0.6484458	0.0010000	0.3982309	398.2309150	0.4556942	336.3886489	0.2852167	
199720	GGN	0.0010000	0.1000129	100.0128941	0.7990323	0.0010000	0.2142469	214.2469410	0.4058037	0.0010000	0.3363886	336.3886489	0.2852167	303.4259421	0.6731996	
146310	RNF151	0.0010000	0.2760379	270.6379069	0.7890430	0.0010000	0.2898793	289.8793410	0.6460156	0.0010000	0.3034259	303.4259421	0.6731996	290.6462695	0.2855213	
79570	NKAIN1	0.4154682	2.7652181	6.6556681	0.0002882	0.0010000	0.4627837	462.7837052	0.0729202	0.0010000	0.2906463	290.6462695	0.2855213	29.3931497	0.6731996	
53342	IL17D	0.3710414	1.2733506	3.4318289	0.1448296	0.1184230	0.3719677	3.1410090	0.5328189	0.0010000	0.2595670	259.5669532	0.4578375	176.2971167	0.6806773	
763	CA5A	0.6370001	1.9873411	3.1198444	0.1969247	0.0010000	0.2128634	212.8634275	0.6559691	0.0010000	0.2228109	222.8109317	0.6810502	183.8105403	0.6843173	
170482	CLEC4C	0.0010000	0.1639481	163.9480775	0.7981630	0.0010000	0.17560942	175.6042279	0.6596426	0.0010000	0.1838105	183.8105403	0.6843173	164.9211676	0.4578375	
9074	CLDN6	0.0010000	0.1572466	157.2465503	0.7946512	0.0010000	0.1684262	168.4262448	0.6554824	0.0010000	0.1762971	176.2971167	0.6806773	152.1690532	0.4578375	
4224	MEP1A	20.2743919	144.4746216	7.1393649	0.0000000	0.0010000	0.2363537	0.2327687	0.2327687	0.0010000	0.1649212	164.9211676	0.4578375	152.3829968	0.4578375	
1482	NKX2-5	0.0010000	0.4077497	407.7497297	0.36558833	0.0010000	0.1455798	145.5797826	0.6614329	0.0010000	0.1527830	152.3829968	0.4578375	137.3874004	0.4593544	
6405	SEMA3F	7.1682436	17.2170661	2.4018528	0.0000000	0.7521679	1.8375514	2.4430070	0.0240220	0.0010000	0.1373874	137.3874004	0.4593544	126.8857630	0.4603713	
940	CD28	0.0010000	0.05653873	56.3872797	0.8048390	0.0010000	0.0606104	60.6104427	0.6697063	0.0010000	0.1268858	126.8857630	0.4603713	126.8857630	0.4603713	
85376	RIMBP3	0.0010000	0.0371876	37.1876012	0.7987061	0.00380434	0.0796630	2.0940060	0.7202062	0.0010000	0.0833858	83.3858277	0.4582043	126.3372708	0.4582043	
5313	PKLR	9.4170506	67.2548095	7.1418125	0.0000000	1.0863549	2.6539725	2.4430070	0.0097862	0.0010000	0.0793714	79.3713605	0.6928719	152.3829968	0.6928719	
64005	MYO1G	0.2105850	0.9197892	4.3677822	0.0527821	0.0010000	0.0703702	70.3702212	0.6471395	0.0010000	0.0736588	73.6587527	0.6737730	1.4777150	0.6748180	
2041	EPHA1	5.6481178	11.9183718	2.1101493	0.0000008	0.0010000	0.1372659	137.2658866	0.4032914	0.0010000	0.0718403	71.8402885	0.6748180	1.4777150	0.6748180	
10319	LAMC3	0.0010000	2.0490015	2049.0014568	0.0000000	0.0010000	0.1135179	113.5178528	0.2339309	0.0010000	0.0396076	39.6075844	0.6914405	1.4777150	0.6914405	
115207	KCTD12	0.0010000	69.0805752	53.565014	0.1766756	0.1766756	0.5179438	2.9316084	0.0839095	0.0010000	0.0387249	38.7248757	0.6887588	1.4777150	0.6887588	
400745	SH2DS5	0.8104555	4.9446124	6.1010291	0.0000007	2.0118627	4.0323018	2.0426269	0.0027218	0.0000000	4.0947465	29.3134509	0.0005091	1.4777150	0.0005091	
3242	HPD	23.5345336	337.2966129	14.3319863	0.0000000	4.4913536	24.4851281	5.4516363	0.0000000	2.8227249	71.4567028	25.1347956	0.0000003	1.4777150	0.0000003	
4597	MVD	10.7711565	168.1416775	15.6103643	0.0000000	26.76554436	79.6998620	2.9777150	0.0000000	2.5361017	37.6755287	14.8565855	0.0000001	13.7152546	0.0000001	
3157	HMGCS1	49.6733013	185.5993129	3.7363977	0.0000000	31.6836994	80.1358637	3.4587985	0.0000000	7.40002571	101.4964099	13.7152546	0.0000000	12.2407817	0.0000000	
3373	HYAL1	7.4041771	31.9976122	4.3215623	0.0000000	31.6836531	87.0555906	2.7476598	0.0000000	1.4886822	18.2248370	12.2407817	0.0000005	1.4777150	0.0000005	
51666	ASB4	0.0010000	0.5838151	583.81151053	0.2338955	0.0010000	0.6253224	625.3223724	0.1314544	0.0000000	1.9636346	1.9636346	0.0000000	1.0.333807	0.0000000	
10814	CPLX2	0.0010000	0.592523859	592.5859205	0.00041433	0.0010000	0.0488244	48.8243664	0.6517948	0.0000000	14.1087266	145.7543687	0.0000000	1.307954	0.0000000	
2810	SEN	1.3127530	17.0376338	12.9785527	0.00000167	3.3518660	19.8281878	5.9155670	0.0000000	25.4546101	258.4247599	10.1523755	0.0000000	1.4777150	0.0000000	
7425	VGF	0.0010000	0.0844822	84.3822068	0.7941136	1.12222121	41.9370134	37.3699534	0.0000026	0.1048893	1.0406571	9.9214757	0.0207857	1.4777150	0.0207857	
201175	SH3D20	0.0010000	0.3131218	313.1217643	0.53337680	0.0010000	0.1676918	167.6918281	0.6470210	0.0000000	3.8921817	3.8616243	9.9214757	0.0007528	1.4777150	0.0007528
1307	COL16A1	0.0618292	0.2314768	3.7438133	0.3199148	0.0010000	0.0413223	41.3223416	0.652323362	0.0000000	0.9083216	9.4704995	0.00009321	1.4777150	0.00009321	
6713	SQLE	29.4447421	82.4245396	2.7992957	0.0000000	23.5126673	65.8276234	2.7996663	0.0000000	31.3457744	284.8242067	9.0865255	0.0000000	1.4777150	0.0000000	
402415	XKRX	0.0010000	75.5621795	75.5621795	0.7911701	0.0010000	0.3237376	323.7373734	0.1313287	0.0000000	8.0471661	9.0471661	0.0000000	1.4777150	0.0000000	
85409	NKD2	22.3887442	52.6339910	12.0633984	0.0000007	1.4708889	4.1066777	2.7920800	0.0056347	0.1489335	1.2089786	8.1175710	0.0525363	1.4777150	0.0525363	
65078	RTN4R	1.6192216	13.6957730	8.4382448	0.0000007	2.0671878	4.4489455	2.1521728	0.0205608	0.2790855	1.21396351	7.6665949	0.0039604	1.4777150	0.0039604	
4640	MYO1A	0.0010000	0.0596257	59.6257331	0.8055570	1.9519308	7.9192501	4.0571366	0.0000000	1.1858622	8.7572775	7.3847347	0.0000001	1.4777150	0.0000001	
3754	KCNF1	0.0010000	2.0705160	2070.5159567	0.0000640	2.6958433	6.8547789	2.5427216	0.0000000	0.8189067	5.6978858	6.9579180	0.0000000	1.4777150	0.0000000	
3156	HMGCR	22.3887442	52.6339910	2.3509131	0.0000000	15.0131395	41.3123366	2.7517387	0.0000000	8.7701692	57.7450043	6.5842520	0.0000000	1.4777150	0.0000000	
9415	FADS2	7.8940268	41.1837154	5.2170732	0.0000000	2.6594593	7.107052	2.6726129	0.0000005	60.4615295	351.6676207	160.471453	0.0000000	1.4777150	0.0000000	
256933	NPB	0.5604773	4.8960858	8.7555643	0.0168094	0.3577882	0.7491687	2.0940060	0.7193779	13.4760673	72.5365329	5.3826188	0.0000000	1.4777150	0.0000000	
2222	FDF1	46.7224121	436.2770444	9.3376396	0.0000000	96.902096	211.5700750	2.18333292	0.0000000	63.1946352	317.9073991	5.0306074	0.0000000	1.4777150	0.0000000	
29881	NPC1L1	12.6554382	69.1912862	5.4673165	0.0000000	0.0914381	91.4380644	0.4038103	0.2334543	11.7246141	5.0223346	0.0000000	1.4777150	0.0000000		
4953	ODC1	39.0127013	242.8002650	6.2236210	0.0000000	172.6101264	575.4051498	3.33355338	0.0000000	32.5962207	4.9230068	0.0000000	1.4777150	0.0000000		
28984	C13orf15	0.0010000	0.9721470	972.1469939	0.1544804	0.1989036	0.4165053	0.7221068	0.0000000	0.7221068	0.4833619	4.5097617	0.00891343	1.4777150	0.00891343	
7421	VDR	0.0010000	4.4962734</td													

Table SIV. Continued.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B-C/ FDR		Huh7-C/ Huh7		Huh7-C/Huh7		MHCC97-H-C/ MHCC97-H		MHCC97-H-C/ FDR	
		Hep3B-C	Hep3B	Hep3B-C	Hep3B	Huh7	Huh7	Huh7-C	Huh7-C	MHCC97-H-C	MHCC97-H	Huh7/FDR	MHCC97-H-C
140711	C20orf118	0.0010000	1.1610512	1161.0512065	0.0103565	0.7558332	8.5921316	11.3674612	0.0000645	4.0672501	17.6323030	4.3351903	0.0000000
2194	FASN	77.3127384	1223.0582020	15.8196208	0.0000000	55.3438333	177.2462229	3.2026264	0.0000000	39.2587252	165.7107438	4.2209915	0.0000000
4113	MAGEB2	0.0010000	0.1338061	133.8060707	0.7903711	0.1368852	0.5732769	4.1880120	0.3595701	0.3326491	1.3501512	4.0587855	0.1330635
2049	EPHB3	0.0010000	0.71448893	714.6892971	0.0026959	3.6634704	17.5373003	0.0002627	2.2209449	8.1272135	3.8726922	14.1423246	0.0000000
3352	HTR1D	0.1217827	9.9118636	7.4876266	0.0359843	1.0883219	2.6045173	2.3931497	0.165957	0.165957	3.8726922	14.1423246	3.6518070
7433	VIPRL	0.0010000	0.8490525	849.0524946	0.0103553	1.9740701	22.9834538	11.6426734	0.0000000	2.1107900	7.7018658	3.6488072	0.0000000
1717	DHCR7	25.00333879	128.2866331	5.1307700	0.0000000	71.6975456	159.9189815	2.2304666	0.0000000	24.8188557	89.8136234	3.6187642	0.0000000
285679	C5orf60	0.289399	0.7224060	2.4958755	0.5850328	0.0010000	0.1934149	193.4148830	0.6657320	0.2244614	0.8098141	3.6078093	0.4349008
284417	TMEM150B	1.9728802	4.1855339	2.1214942	0.1979271	0.0010000	0.2637074	263.7073776	0.6590889	0.3060371	1.1041237	3.8078093	0.4347238
50509	COL5A3	0.0559206	0.3888201	6.8636577	0.0526711	1.1065664	2.6535181	2.3979746	0.0001349	0.4770987	1.6821612	3.5258137	0.0002408
6712	SPTBN2	12.3336364	25.8809110	2.0984007	0.0000000	2.4655348	5.5735255	2.2605747	0.0000000	1.8383238	6.3252698	3.4407811	0.0000000
6004	RGS16	0.0010000	0.0883805	88.5804991	0.7945974	0.0010000	0.0948783	94.8782711	0.6553000	0.2202159	0.6951848	3.1568332	0.2826476
89870	TRIM15	4.1914833	18.4043512	4.3908921	0.0000000	8.32329010	17.9490577	2.1563276	0.0000000	1.4448696	4.3440117	3.0065078	0.0015463
1364	CLDN4	0.0010000	6.8539829	6853.9829312	0.0000000	0.6044575	22.6567022	37.4827076	0.0001685	46.2670705	128.9115851	2.7863035	0.0000000
644165	BCRP3	0.0010000	0.3025670981	0.5373388	0.0010000	0.1620393	162.0392945	0.6707869	0.1880476	0.508351	2.7058570	0.6222177	0.0000000
9033	PKD2L1	0.0010000	0.1412178	141.2178131	0.5335316	0.0010000	0.0756290	75.6289595	0.6460747	0.0877688	0.2374897	2.7058570	0.6205199
197342	EME2	0.0010000	1.7750603	1775.0603089	0.0103658	0.0010000	1.0370515	1037.0514851	0.0395809	0.2005861	0.5427574	2.7058570	0.6219403
10603	SH2B2	0.3647692	1.4794300	4.0557977	0.0740333	0.9313690	2.3159721	2.4866321	0.0708524	1.6975119	4.4656348	2.6306943	0.0087049
5307	PTIX1	3.4771703	17.0589628	4.9137549	0.0000000	3.6992988	7.7463351	2.0940060	0.0004428	3.0340443	7.9056273	2.6056401	0.0000355
4130	MAP1A	0.0010000	0.2306283	230.6282737	0.0103635	0.0010000	0.1571978	157.1978285	0.0210754	2.7885866	7.0988972	2.5456972	0.0000000
8140	SLC7A5	9.4236188	73.4057218	7.7895470	0.0000000	42.6411141	91.2716020	2.1404601	0.0000000	50.5739343	127.8078424	2.5271485	0.0000000
55502	HES6	1.0095147	16.8499794	16.6911676	0.0000350	3.5442063	10.7950389	3.0458269	0.0000104	1.9574744	4.9435361	2.5254665	0.0272561
133522	PPARGC1B	0.5292061	1.1887492	2.2462880	0.1561387	0.74311751	2.6880044	3.6169195	0.0002481	0.3283360	0.8144689	2.4803689	0.2325098
3158	HMGCS2	1.0129703	11.1664274	11.0234502	0.0000077	1.2932138	7.1048435	5.4967658	0.0000045	25.7961624	63.3048894	2.4540429	0.0000000
3955	LFNG	1.1634508	4.03598250	3.5098250	0.0005605	0.46411643	2.0441128	4.3974126	0.0041127	3.1583445	7.7321212	2.4481563	0.0001187
54863	C9orf167	6.3637387	19.9068181	3.1281640	0.0000000	1.1624860	1.926045	1.18660341	0.0003970	2.9164798	7.1229408	2.4052062	0.0000010
10940	POP1	2.6927486	5.8125538	2.1585951	0.0000317	2.8802449	7.4904235	2.6006204	0.0000000	7.3944999	17.5137658	2.3684855	0.0000000
80115	BAIAP2L2	10.4622435	25.4094297	2.4286789	0.0000000	0.1027437	5.4862199	53.3971533	0.0024166	4.7439324	11.0348023	2.3260873	0.0000245
196483	FAM86A	1.4549264	6.5363673	4.4925759	0.0000008	5.01050865	10.6960957	2.1327839	0.00000173	1.8055289	4.1730337	2.3112529	0.0112212
6721	SREBF2	49.8718090	105.6626703	2.1186853	0.0000000	29.4290487	59.1060341	2.0084249	0.0000000	14.2411036	31.2425840	2.1938317	0.0000000
8514	KCNAB2	3.2663579	10.7340234	3.2862361	0.0000000	0.1390004	0.6549024	4.7115135	0.0830971	3.5467881	7.6167471	2.1475056	0.0000026
3960	LGALS4	0.0010000	0.3368691	336.86869756	0.5374187	0.1723105	0.5412290	3.1410090	0.5342576	348.5987959	747.4308551	2.1441005	0.0000000
9754	STARD8	0.2796145	2.0064138	7.1756421	0.00000384	0.3123499	0.7942189	2.5427216	0.0849203	8.3495657	17.8981373	2.1436010	0.0000000
10544	PROCR	0.0010000	0.1485709	148.5708785	0.8055017	0.7599489	1.5913376	2.0940060	0.3301948	56.3266635	120.0972435	2.1321562	0.0000000
1594	CYP27B1	0.4164705	0.9528370	2.2878859	0.2913847	0.3544595	0.9278004	2.6175075	0.2089611	0.3230187	6.6798108	2.1045554	0.4650506
124935	SLC43A2	1.4956023	37.0412300	24.7667649	0.0000000	2.1296803	8.8422375	4.1519085	0.0000000	7.0492560	14.807228	2.1007497	0.0000001
51491	NOP16	11.5727609	34.9017064	3.0158496	0.0000067	50.8898899	102.6960993	0.0000000	33.410139	69.1745116	2.0866601	0.0000014	0.0000000
56666	PANX2	1.0181148	9.8114222	9.6368527	0.0000007	0.7943110	1.6632919	2.0940060	0.1044127	3.2463802	6.7266708	2.0720527	0.00006407
6480	FERMT1	0.1340532	0.3764026	2.8078600	0.2655521	0.8129137	3.1357167	3.8573795	0.0000000	28.7620840	15.2390393	2.0643237	0.0000000
4938	OAS1	0.4152183	9.0679159	21.8389109	0.0001467	3.7106346	11.6551367	3.1410090	0.0000002	125.9205736	258.9553398	2.0564975	0.0000000
374383	DKFP686Q24166	4.5282073	2.0902958	0.0000389	0.48339832	1.1582442	2.3931497	0.0165995	1.5121835	3.1067009	2.0544470	0.00009384	0.0000000
100130872	LOC100130872	0.1386562	0.4758445	3.4318289	0.1448695	0.1327622	0.2780048	2.0940060	0.1044127	5.0924378	2.0149999	0.0002043	0.0000000
55612	ST6GAL1	159.1791256	0.3633159	0.0000000	17.7689626	2.1486491	0.1209215	0.0000000	28.7670047	14.2623286	0.4957878	0.0000000	0.4957878
4092	SMAD7	4.5854925	0.1395710	0.0304375	0.0000000	1.4992190	0.4484819	0.2991437	0.0179772	7.4600890	3.6772826	0.492974	0.00003369
161779	PGBD4	0.8936688	0.3717477	0.4159793	0.2176680	1.5212092	0.5972665	0.3926261	0.1109340	2.5415078	1.2503557	0.4919740	0.1078296
259959	TAS2R20	1.62234516	0.3376611	0.2079896	0.0186623	0.3454313	0.1205559	0.3490010	0.0593250	3.0779598	1.5142762	0.4919740	0.1078132
285554	LOC28594	1.1149215	0.1159461	0.1039948	0.0218613	0.1186142	0.0010000	0.0084307	0.6783476	0.5368176	0.2599861	0.4843099	0.2574037
1326	MAP3K8	6.6909697	0.5566609	0.0831959	0.0000000	2.7761700	1.1924752	0.4295397	0.0113833	3.8921875	1.8723027	0.4810412	0.0108437

Table SIV. Continued.

GeneID	Symbol	Hep3B-C/ Hep3B		Hep3B-FDR		Huh7		Huh7-C		Huh7-C/Huh7		Huh7FDR		MHCC97-H		MHCC97-H-C		MHCC97-H		MHCC97-H-C/ MHCC97-H	
		Hep3B	Hep3B-C	Hep3B	FDR	Huh7	Huh7	Huh7-C	Huh7-C	Huh7-C/Huh7	Huh7	Huh7FDR	MHCC97-H	MHCC97-H-C	MHCC97-H	MHCC97-H-C/ MHCC97-H	FDR	MHCC97			
10370	CITED2	53.1573086	5.8072806	0.1092471	0.0000000	82.3731060	37.7994245	0.4588807	0.0000000	79.2658407	38.0633609	0.4801988	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
399669	ZNF321	1.9206984	0.8306984	0.4319785	0.0730634	0.9442282	0.3954481	0.4575042	0.2725934	9.7521475	4.6566912	0.4775042	0.0292106	0.0292106	0.0292106	0.0292106	0.0292106	0.0292106	0.0292106	0.0292106	0.0292106
55876	GSDMB	42.2543376	0.9242528	0.0219487	0.0000000	2.4396884	0.8514537	0.3490010	0.055926	5.5993880	2.6737312	0.4775042	0.0292109	0.0292109	0.0292109	0.0292109	0.0292109	0.0292109	0.0292109	0.0292109	0.0292109
7626	ZNFT5D	1.4338828	0.9233995	0.1627745	0.0000059	0.6765165	0.3333246	0.4927073	0.2053263	6.4310351	3.0528880	0.4747118	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
25950	RWD3	8.1071798	2.0932253	0.2581940	0.0000008	7.1379818	3.1762326	0.4449763	0.0135469	8.6731174	4.1069377	0.4735250	0.0152928	0.0152928	0.0152928	0.0152928	0.0152928	0.0152928	0.0152928	0.0152928	0.0152928
65983	GRAMD3	5.4544335	1.5206666	0.2787946	0.0000008	0.7407906	0.3102440	0.4188012	0.2723445	5.8507101	2.7603091	0.4717905	0.0012361	0.0012361	0.0012361	0.0012361	0.0012361	0.0012361	0.0012361	0.0012361	0.0012361
63908	NAPB	4.1037947	1.4473184	0.3526781	0.00000295	0.3986925	0.1788713	0.4487156	0.4326285	3.8748889	1.8089826	0.4670825	0.0026741	0.0026741	0.0026741	0.0026741	0.0026741	0.0026741	0.0026741	0.0026741	
154214	RNF217	4.0640890	0.4830219	0.1188512	0.0000084	1.9765488	0.7760447	0.3926261	0.1109157	4.6531712	2.1661619	0.4655238	0.0330412	0.0330412	0.0330412	0.0330412	0.0330412	0.0330412	0.0330412	0.0330412	
121457	IKBIP	11.8156754	2.8753194	0.2433479	0.0000000	16.1404622	7.4229746	0.4598985	0.0000000	42.3393273	19.6726345	0.4646421	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	
54465	ETAA1	16.6159420	1.9029563	0.1145259	0.0000000	2.7522975	1.1948362	0.4341232	0.0099238	10.3589331	4.7819855	0.4616291	0.0000014	0.0000014	0.0000014	0.0000014	0.0000014	0.0000014	0.0000014	0.0000014	
63027	SLC22A23	12.7601214	6.1380431	0.4810333	0.0000000	23.3230825	10.6693721	0.4574598	0.0000000	15.2159056	6.9996442	0.4600215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	
3397	ID1	64.9823469	0.7051646	0.0108516	0.0000000	150.5905344	63.4451465	0.4213090	0.0000000	175.5262537	79.6525377	0.4537912	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	
700128675	LOC100128675	1.5944902	0.3511455	0.2202243	0.0011895	0.3924937	0.1805054	0.4791297	0.7628473	0.2909889	0.1312290	0.4509762	0.5452015	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
7626	ZNF69	4.1621945	0.2597080	0.0623969	0.0000010	0.2656844	0.0010000	0.0037639	0.4415700	0.3228240	0.1458589	0.4509762	0.6932198	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
26115	TANC2	0.7053798	0.0366779	0.0519974	0.0000000	2.4576879	1.1392823	0.4635586	0.0000032	0.2279582	0.1028037	0.4509762	0.2728956	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
317751	MESTT1	0.9584474	0.2657961	0.2773195	0.0404815	0.3398908	0.1423467	0.4188012	0.5027440	0.4955876	0.2234982	0.4509762	0.4280415	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
389649	C8orf86	0.6137850	0.0010000	0.0016292	0.0272298	0.0979490	0.0010000	0.0102094	0.6610416	0.2380289	0.1073454	0.4509762	0.6910048	0.5452015	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
285987	DLX6-AS1	2.4301440	0.3249288	0.1337076	0.0005153	0.2216040	0.0010000	0.0045126	0.4444924	0.2692634	0.1214314	0.4509762	0.6965128	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
84278	HATL2	0.8785690	0.2740811	0.3119844	0.03826504	0.5607766	0.0010000	0.0017832	0.4402455	1.3627608	0.6145726	0.4509762	0.5460638	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
619208	C6orf225	2.1974237	0.4032718	0.1835203	0.00004825	6.3532982	2.3324922	0.3671309	0.00000137	2.2056215	0.9946827	0.4509762	0.718105	0.4280415	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
25862	USP49	2.2821324	0.2034257	0.0891384	0.0000022	0.2081069	0.0726295	0.3490010	0.5968923	0.3371514	0.1520472	0.4509762	0.5476432	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
26002	MOXD1	9.4294455	1.1342035	0.1202832	0.0000000	2.3931264	0.5314932	0.2220915	0.0002473	1.5860760	0.7152825	0.4509762	0.1122359	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
653483	C6orf124	3.8842946	0.2796553	0.0719964	0.0000000	2.3840890	0.7987675	0.3350410	0.0152039	0.2317460	0.1045119	0.4509762	0.6972988	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
147700	KLC3	4.0436892	1.9223895	0.4754049	0.0370606	3.4415980	1.0295524	0.2991437	0.0047800	0.5973954	0.2494111	0.4509762	0.5482058	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
7058	THBS2	0.1188687	0.0010000	0.0084126	0.1571902	0.0379386	0.0010000	0.0263584	0.6620018	0.8736786	0.3940082	0.4509762	0.4272979	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
149069	DCD2B	0.7677991	0.0010000	0.0013024	0.3565536	0.1292899	0.1030801	0.0010000	0.0097012	0.6859755	0.2504981	0.1123811	0.4509762	0.6984812	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
93556	EGFEM1P	1.1303921	0.4030454	0.9389104	0.2441617	0.0002822	0.2134481	0.0010000	0.0046850	0.4455419	0.5187070	0.2339245	0.5480523	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
338442	GPR109A	3.8454445	0.9389104	0.4754049	0.0000000	0.0017449	0.1439928	0.0010000	0.0041722	0.4408822	0.8736786	0.3940082	0.4272979	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
80094	FLJ14107	2.4406212	0.3514319	0.1439928	0.0000000	5.4556430	0.0000000	5.2022255	2.1786983	0.4188012	0.0014581	0.4509762	0.4506070	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
4485	MST1	21.0412330	9.1533689	0.4550206	0.0000000	0.1220809	0.0578940	0.1425499	0.1329170	0.1163337	0.0000497	0.1028351	0.4509762	0.6928866	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	
55811	ADCY10	6.4304227	0.3722830	0.0577218	0.1220809	0.0599851	0.0010000	0.1462389	0.0961678	0.0757780	0.0951821	0.1457716	0.4509762	0.6928866	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
26013	L3MBTL1	1.2419210	0.0645767	0.0519974	0.0001541	1.4563765	0.3709047	0.1495719	0.1123811	0.6421643	0.2896008	0.4509762	0.3429713	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
3008	HIST1H1E	5.7175827	0.0010000	0.0001749	0.1439928	0.0000074	0.2807455	0.0010000	0.0035619	0.6700171	0.6822484	0.3076778	0.4509762	0.6940540	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
29940	DSE	52.1428475	0.05333369	0.00010229	0.3662292	0.8976993	0.2349735	0.2617508	0.0307396	0.1195974	0.2459542	0.4509762	0.4506070	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
83449	PMFBP1	4.3227233	0.1220809	0.00044098	0.1134489	0.1588825	0.7961370	0.0512842	0.0178982	0.03490010	0.5941081	0.0374693	0.4509762	0.6928866	0.4509762	0.4509762	0.4509762	0.4509762	0.4509762		
202333	CMYA5	0.2945854</td																			

Table SIV. Continued.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B-FDR		Huh7		Huh7-C		Huh7-C/Huh7		Huh7FDR		MHCC97-H		MHCC97-H-C		MHCC97-H-C/ MHCC97-H		FDR
		Hep3B	Hep3B-C	Hep3B	Hep3B	Huh7	Huh7	Huh7-C	Huh7-C	Huh7-C/Huh7	Huh7	Huh7	Huh7	MHCC97-H	MHCC97-H-C	MHCC97-H-C	MHCC97-H	MHCC97-H-C/ MHCC97-H	MHCC97-H-C/ MHCC97-H	
151525	WDSUB1	6.4466521	1.1173640	0.1733247	0.0000001	3.3149225	1.4361657	0.4332426	0.0365259	5.2778708	2.2549206	0.4272406	0.0079796	0.0191469	0.4209111	0.4209111	0.1242779	0.0031931		
8554	PDE5A	2.2229835	0.038238	0.0138660	0.0000000	0.0945995	0.0010000	0.2690228	1.1494456	0.4831844	1.4831844	0.4209111	0.4209111	0.0049131	0.4209111	0.0049131	0.0049131	0.0049131		
8555	INE1	1.372779	0.6424287	0.4679767	0.3621580	0.8762831	0.2293677	0.2617508	0.4121672	3.9927888	1.6806057	1.6806057	0.4209111	0.4209111	0.4209111	0.4209111	0.4209111	0.4209111		
64129	TINAGL1	14.0573231	3.66557541	0.2605584	0.0000000	0.0986063	0.0010000	0.0101413	0.6731608	5.0321543	2.0532501	0.4080261	0.4080261	0.0086654	0.4080261	0.0086654	0.0086654	0.0086654		
113277	TMEM106A	0.8646792	0.070761	0.0891384	0.0098639	0.2365949	0.0825560	0.3490010	0.5955266	3.6406923	1.4690375	0.4035050	0.4035050	0.0090003	0.4035050	0.0090003	0.4035050	0.0090003		
3306	HSPA2	1.6209110	0.6223988	0.3839809	0.0458670	10.8242635	4.6665444	0.4311189	0.0000003	1.7407313	0.6978030	0.4008677	0.4008677	0.0000003	0.4008677	0.0000003	0.4008677	0.0000003		
1286	COL4A4	0.0333869	0.0010000	0.0299519	0.3589848	0.0213118	0.0010000	0.0469224	0.6625113	0.2330570	0.0934250	0.4008677	0.4008677	0.0000000	0.4008677	0.0000000	0.4008677	0.0000000		
89857	KLHL6	0.3824016	0.0344867	0.0891384	0.0098661	0.1046132	0.0365101	0.3490010	0.5957044	0.3813358	0.1528652	0.4008677	0.4008677	0.0000000	0.4008677	0.0000000	0.4008677	0.0000000		
9246	UBE2L6	6.8016949	2.2069039	0.3244638	0.0012891	29.8709634	8.7279038	0.2921869	0.0000000	16.2484258	6.4711739	0.3982647	0.0000209	0.0000209	0.0000209	0.0000209	0.0000209	0.0000209		
26249	KLHL3	0.1521837	0.0010000	0.0065710	0.06633731	0.9390494	0.0678060	0.0722071	0.0000034	1.3377321	0.5323106	0.3979201	0.0075649	0.0075649	0.0000000	0.3979201	0.0000000	0.3979201	0.0000000	
51141	INSIG2	15.5050205	3.1628220	0.2044036	0.0000000	6.5697482	2.8586166	0.4351181	0.0002085	25.3994240	10.0986920	0.3975953	0.0000000	0.0000000	0.3975953	0.0000000	0.3975953	0.0000000		
51566	ARMCX3	13.7288055	5.5839894	0.4067353	0.0000000	6.0370611	2.3788037	0.3940334	0.0000055	22.5584978	8.9638905	0.3973636	0.0000000	0.0000000	0.3973636	0.0000000	0.3973636	0.0000000		
55900	ZNF302	12.109582	1.4783454	0.1220809	0.0000000	0.0840203	0.0110000	0.0110000	0.6857326	15.1093442	5.9852300	0.3961277	0.0000000	0.0000000	0.3961277	0.0000000	0.3961277	0.0000000		
10472	ZNF238	4.3578147	0.6669591	0.1530490	0.0000000	0.1574555	0.0100000	0.0063510	0.2674608	3.6350565	1.4380034	0.3955931	0.0002952	0.0002952	0.0002952	0.0002952	0.0002952	0.0002952		
51380	CSAD	6.2773461	0.2398083	0.0382022	0.0000000	0.8995314	0.0856193	0.0951821	0.0149872	4.5706846	1.7924085	0.3921532	0.0012501	0.0012501	0.0012501	0.0012501	0.0012501	0.0012501		
203238	C9orf93	0.3960244	0.0988428	0.2495876	0.1176818	0.1516760	0.0529351	0.3490010	0.5938723	0.4300047	0.1662265	0.3865510	0.3043787	0.0000000	0.3043787	0.0000000	0.3043787	0.0000000		
440101	FLJ12825	0.6130843	0.1639481	0.2674152	0.0682028	0.1677208	0.0585547	0.3490010	0.5931074	0.4755143	0.1838105	0.3865510	0.3042023	0.0000000	0.3042023	0.0000000	0.3042023	0.0000000		
266812	NAP1L5	5.1345472	1.3257094	0.2581940	0.00000658	1.9213068	0.3549907	0.1847652	0.0077890	0.9612705	0.3715801	0.3865510	0.3041671	0.3041671	0.0000000	0.3041671	0.0000000	0.3041671	0.0000000	
5349	FXYD3	8.5328944	0.1365195	0.0159992	0.0000000	50.2779899	6.1447471	0.1221504	0.0000000	54.6425631	21.1221374	0.3865510	0.0000000	0.0000000	0.3865510	0.0000000	0.3865510	0.0000000		
653399	GSTOP2	2.1682621	0.4162856	0.1919904	0.0029803	0.4258551	0.0100000	0.0023482	0.1581192	0.9055447	0.3500392	0.3865510	0.3046967	0.0000000	0.3046967	0.0000000	0.3046967	0.0000000		
222865	TMEM130	1.0141274	0.2109280	0.2079896	0.0186644	0.0719273	0.0010000	0.0139029	0.6641584	0.6117746	0.2364821	0.3865510	0.3043081	0.0000000	0.3043081	0.0000000	0.3043081	0.0000000		
57088	PLSCR4	4.2263682	0.3139431	0.0742820	0.0000000	0.5138681	0.0672257	0.1308754	0.0697288	8.0389383	3.0974031	0.3853000	0.0000003	0.0000003	0.3853000	0.0000003	0.3853000	0.0000003		
5797	PTPRM	31.0112106	1.2694851	0.0409363	0.0000000	11.8850584	5.9334160	0.4992332	0.0000000	23.6222418	9.1003942	0.3852468	0.0000000	0.0000000	0.3852468	0.0000000	0.3852468	0.0000000		
9404	LPXN	2.1955741	0.4566566	0.2079896	0.0058966	1.05111217	0.3668425	0.3490010	0.2275260	5.6763646	2.1759194	0.3833297	0.0000000	0.0000000	0.3833297	0.0000000	0.3833297	0.0000000		
123	PLIN2	863.3094569	256.1196867	0.2966719	0.0000000	97.6150560	32.139210	0.3330831	0.0000000	69.1095236	26.3484054	0.3812558	0.0000000	0.0000000	0.3812558	0.0000000	0.3812558	0.0000000		
55211	DPPA4	0.6129845	0.1529484	0.2495876	0.1177898	0.2347020	0.0819112	0.3490010	0.5951122	1.1407135	0.4286955	0.3758135	0.1350150	0.1350150	0.1350150	0.1350150	0.1350150	0.1350150		
79686	C14orf139	2.3237076	0.5341816	0.2298833	0.0007344	0.4684064	0.0817371	0.1745005	0.1771172	1.1382890	0.4277844	0.3758135	0.0000048	0.0000048	0.3758135	0.0000048	0.3758135	0.0000048		
51201	ZDHHC2	4.9063775	1.8798235	0.3831388	0.0000122	12.0879436	5.2925564	0.4378376	0.0000000	5.2074383	1.9269174	0.3700317	0.0000048	0.0000048	0.3700317	0.0000048	0.3700317	0.0000048		
28451	LOC28451	2.0153464	0.0010000	0.00004962	0.0000005	0.2412096	0.0010000	0.0041458	0.2670731	0.4884759	0.1762328	0.3607809	0.3774466	0.0000000	0.3774466	0.0000000	0.3774466	0.0000000		
619383	SCARNA9	13.6927946	0.0010000	0.00000730	0.0000030	5.6188858	0.6536656	0.1163337	0.0425433	3.7929532	1.3684252	0.3677460	0.0000000	0.0000000	0.3677460	0.0000000	0.3677460	0.0000000		
100129935	LOC100129935	1.5084829	0.5882790	0.3899806	0.1292665	0.2407266	0.0100000	0.0041541	0.4405391	0.7312466	0.2638198	0.3607809	0.3775860	0.0000000	0.3775860	0.0000000	0.3775860	0.0000000		
201134	CCDC46	0.2944179	0.1224717	0.4159793	0.3578737	1.5661256	0.6558953	0.4188012	0.0480042	4.5676346	1.6477115	0.3607809	0.0000048	0.0000048	0.3607809	0.0000048	0.3607809	0.0000048		
4352	MPL	0.7577592	0.1773068	0.2339883	0.0361419	0.3023116	0.1266085	0.4188012	0.5021583	0.3673285	0.132251	0.3607809	0.3776260	0.0000000	0.3776260	0.0000000	0.3776260	0.0000000		
5352	PLOD2	177.5179034	11.4640057	0.0645794	0.0000000	14.0008234	5.5142064	0.3936407	0.0000000	137.5527246	49.0908638	0.3568876	0.0000000	0.0000000	0.3568876	0.0000000	0.3568876	0.0000000		
210	ALAD	13.2331110	6.497504	0.4909919	0.0000000	0.0033989	0.1597497	0.5634048	0.0983144	0.1745005	0.1774582	0.20537218	0.3507592	0.0000000	0.3507592	0.0000000	0.3507592	0.0000000		
375287	RBM43	3.7057678	0.8075367	0.0297128	0.0000001	1.1641639	0.1875205	0.1610774	0.0182785	2.8297875	0.9814183	0.3469047	0.0000001	0.0000001	0.3469047	0.0000001	0.3469047	0.0000001		
255031	FLJ35390	1.9305911	0.6023144	0.3565536	0.1292182	0.1075924	0.0375494	0.3490010	0.5946392	0.5665049	0.1965232	0.3469047	0.0922787	0.1128964	0.0922787	0.1128964	0.0922787	0.1128964		
8406	SRPX	0.5592668	0.1165217	0.2079896	0.2044674	2.7369651	0.4983671	0.1820875	0.0012793	21.8332383	7.0423654	0.3225525	0.0000000	0.0000000	0.3225525	0.0000000	0.3225525	0.0000000		
3202	HOXA5	1.8143981	0.3234651	0.1782768	0.0300391	3.4745413	0.6929248	0.1994291	0.0032831	2.8145308	0.9066331	0.3221258	0.0615958	0.0000000	0.3221258	0.0000000				

Table SIV. Continued.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B-F/ Hep3B		Huh7-F/ Huh7		Huh7-C/Huh7		MHCC97-H-C/ MHCC97-H		MHCC97-H-C/ FDR
		Hep3B	Hep3B-C	Hep3B	FDR	Huh7	Huh7-C	Huh7	Huh7-C/Huh7	MHCC97-H	MHCC97-H-C	
54943	DNAJC28	2.3474385	0.2253429	0.0959952	0.0003150	1.2679064	0.6034099	0.4759105	0.3196420	0.4201608	0.1263217	0.3006508
126205	NLRP8	0.7402926	0.0010000	0.0014243	0.0007343	0.1680619	0.00059502	0.2683816	0.0240263	0.0613948	0.1279275	0.3006508
441027	TMEM150C	0.5486028	0.2282074	0.4159793	0.3778593	0.5836472	0.2444322	0.4188012	0.5018926	0.4255019	0.127725	0.3006508
440712	Clef186	1.0367989	0.3881582	0.3743813	0.2204516	0.1325035	0.0010000	0.0075550	0.6837959	0.4474743	0.4351839	0.3006508
4261	CHTA	0.4451062	0.0462887	0.1039948	0.0218754	0.0473539	0.0010000	0.0211176	0.6862185	0.1726144	0.0518967	0.3006508
85495	RPPH1	7.0873262	0.6317530	0.0891384	0.0098516	5.8166179	2.7066740	0.4653347	0.3733562	2.3558578	0.7082905	0.3006508
51284	TLR7	0.4841303	0.2157730	0.4456921	0.2107757	0.0882953	0.0010000	0.0113256	0.4423093	0.1609270	0.0483828	0.3006508
154664	ABCA13	0.0812506	0.0380234	0.4679767	0.3619607	0.0129661	0.0010000	0.00771241	0.6750965	0.0472641	0.0142100	0.3006508
79690	GAL3ST4	0.5437071	0.0010000	0.0018392	0.0273505	0.0867658	0.0010000	0.0115253	0.6752142	0.6325571	0.1901788	0.3006508
9002	F2RL3	0.3792611	0.0010000	0.0026367	0.06644580	0.0806976	0.0010000	0.0123919	0.6778727	0.2941587	0.0884391	0.3006508
440503	PLIN5	3.81888689	1.5885702	0.4159793	0.0060805	0.1805696	0.0010000	0.0055380	0.4426552	0.3291059	0.0989459	0.3006508
51365	PLA1A	9.0597180	3.5638365	0.39393717	0.0001317	0.3771566	0.0010000	0.0026514	0.2678496	2.2913505	0.6888963	0.3006508
390928	PAPL	0.8167551	0.1456085	0.1782768	0.0302666	0.2234389	0.0079804	0.3490010	0.5947574	0.2714929	0.0816246	0.3006508
4163	MCC	3.3415530	0.3723259	0.1114230	0.0000000	0.0253929	0.0010000	0.0393810	0.6779320	0.1851244	0.0556578	0.3006508
284805	C20orf203	0.2677772	0.0556949	0.2079896	0.2033108	0.1139330	0.0010000	0.0087755	0.4389774	0.2076909	0.5024244	0.3006508
10875	FGL2	0.0808936	0.0010000	0.0123619	0.3672335	0.1032733	0.0010000	0.0096830	0.4434974	0.3764515	0.1131804	0.3006508
83468	GLT8D2	0.3678786	0.0010000	0.0027183	0.1594017	1.9960300	0.4917293	0.2463356	0.0197343	0.4279955	0.1286772	0.3006508
2796	GNRH1	0.3211665	0.1001990	0.3119844	0.3827090	0.2050095	0.0010000	0.0048778	0.4404901	1.8682500	0.5616908	0.3006508
158866	ZDHHC15	0.4572144	0.1059828	0.2339883	0.0361791	0.1824079	0.0763926	0.4188012	0.5024244	0.1329825	0.0399813	0.3006508
79469	DLEU2L	0.8334437	0.0010000	0.0011998	0.0272327	0.6650126	0.2785081	0.4188012	0.5019457	0.4848205	0.1457616	0.3006508
130872	AHSAA2	11.7938907	0.9072765	0.0769277	0.0000000	2.4750793	0.6478539	0.2617508	0.0052594	22.3047659	6.4422283	0.2888274
9310	ZNF235	2.3810623	0.6753222	0.2836222	0.0010647	0.6217764	0.2893341	0.4653347	0.3735363	1.5949428	0.4542829	0.2848271
114907	FBXO32	0.4557809	0.1421966	0.3119844	0.3829142	0.4364603	0.0010000	0.0022914	0.2673902	19.7964619	5.5798328	0.2818601
6539	SLC6A12	4.4053185	0.9588773	0.2176636	0.0000001	2.4850555	0.6684700	0.0275527	0.0000000	3.5757307	1.0033765	0.2806074
11148	HHLA2	3.1150740	0.5669152	0.1819909	0.0000000	2.9826567	0.9542043	0.3199176	0.0017759	53.9591801	14.6187425	0.2709223
137872	ADHFE1	0.7287844	0.0010000	0.0013722	0.2836222	0.2442233	1.2176462	0.4985729	0.1534421	1.4131003	0.3823647	0.2705857
80206	FHOD3	4.2615330	0.0204580	0.0000000	0.0445943	0.0000000	0.0224244	0.6788230	0.0837009	0.2932340	0.2705857	0.0000000
100272228	LOC100272228	1.4105287	0.0010000	0.0007090	0.0000000	0.0692600	0.0010000	0.0144384	0.6725180	2.8612838	0.7590416	0.2652801
397	ARHGDIIB	0.8517780	0.1771610	0.2079896	0.2037897	0.9061891	0.1897565	0.2094006	0.2724887	56.375228	14.8968164	0.2642438
643763	LOC643763	0.4904177	0.0306005	0.0623969	0.00008351	0.0626094	0.0010000	0.0159720	0.4411276	0.9128949	0.2401547	0.2630694
94241	TP53INP1	20.4060958	1.8298590	0.0896722	0.0000000	1.7159703	0.7349834	0.42483194	0.0063853	6.8236913	1.7951046	0.2630694
8832	CD84	0.4223291	0.1317601	0.3119844	0.2184279	0.0673961	0.0010000	0.0148377	0.6739220	0.5732347	0.1477230	0.2577007
11279	KLF8	0.4459823	0.0010000	0.0022422	0.00181223	0.0406690	0.0010000	0.0245888	0.6854293	1.3836335	0.3565633	0.2577007
92104	TTC30A	1.1091905	0.2307001	0.2079896	0.0018794	2.2656862	1.0872493	0.4798764	0.0119978	3.6132571	0.9311388	0.2577007
3434	IFT1	3.1555476	0.6949283	0.2202243	0.0011810	2.1327599	0.1240559	0.0581668	0.00003104	2.0155672	0.5194130	0.2577007
63498	SECTM1	11.6496760	2.3600764	0.2025873	0.0000000	1.8349337	0.6066888	0.3306325	0.0388717	4.0236303	0.4232347	0.2577007
196385	DNAH10	0.0504831	0.0157499	0.3119844	0.3835311	0.0161124	0.0010000	0.0620641	0.6722846	0.1370432	0.0353161	0.2577007
384	ARG2	13.0778043	4.2432743	0.3244638	0.0000000	51.6458221	10.3718243	0.2008260	0.0000000	4.8687727	1.2198336	0.2505423
4585	MUC4	0.0412885	0.0010000	0.0242198	0.1571339	0.0131778	0.0010000	0.0758853	0.6614931	2.1455905	0.5343519	0.2490465
150696	PROM2	0.4516667	0.1690956	0.3743813	0.2203000	0.1153245	0.0010000	0.0086712	0.4434478	0.7706979	0.1895817	0.2459870
89797	NAV2	8.0955686	1.1943192	0.1475275	0.0000000	2.1832215	0.3355361	0.1536885	0.0000000	3.8696189	0.9438938	0.2439242
440253	WHAMML2	1.7772848	0.1232189	0.0693299	0.0000000	0.2941270	0.0879863	0.2991437	0.2519477	1.5826992	0.3683921	0.2327619
9370	ADIPOQ	0.3770795	0.1882287	0.4991751	0.3601966	0.0481401	0.0010000	0.0207727	0.6674772	0.4679467	0.105164	0.2254881
7399	USH2A	0.0548516	0.0228171	0.4159793	0.3782355	0.0116711	0.0010000	0.0856818	0.6686293	0.0567246	0.0127907	0.2254881
6326	SCN2A	0.6624513	0.0729439	0.1101122	0.0000515	0.0248742	0.0010000	0.0402023	0.66665010	0.2417901	0.0545208	0.2254881
151258	SLC38A11	1.0649415	0.1328981	0.1247938	0.0472262	0.4078899	0.0010000	0.0024518	0.2683105	0.6607835	0.1489988	0.3144782
100134368	LOC100134368	1.0988325	0.2747556	0.2495876	0.1178358	0.7014169	0.0010000	0.014257	0.1537410	0.6818141	0.0913265	0.2254881
64922	LLRRC19	0.3836156	0.1795231	0.4679767	0.3620734	0.1224362	0.0010000	0.0081675	0.4437954	0.2975361	0.0670908	0.2254881

Table SIV. Continued.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B/ FDR		Huh7-C/ Huh7		Huh7-H/C/ Huh7FDR		MHCC97-H-C/ MHCC97-H		MHCC97-H-C/ FDR
		Hep3B	Hep3B-C	Hep3B	FDR	Huh7	Huh7-C	Huh7-C/Huh7	Huh7FDR	MHCC97-H	MHCC97-H-C	
3026	HABP2	28.9427670	2.9266199	0.1011175	0.0000000	204.8311649	19.1904350	0.0936890	0.0000000	9.4939454	2.0807499	0.2191660
10205	MPZL2	43.9486214	7.9056064	0.0541752	0.4159793	0.1798829	22.1564621	7.1445950	0.0000000	19.7561247	4.2470353	0.2149731
9185	REP52	0.1302354	3.0661192	1.5305703	0.4991751	0.2771095	0.0870403	0.3141009	0.1573770	0.5724007	0.1214772	0.0073259
144008	C12orf60	0.2976328	0.0925568	0.3119844	0.1846784	0.3842976	0.7599889	0.2983758	0.0012018	0.0912008	3.0912008	0.0217806
4515	MTCP1	3.9570663	0.4115144	0.1039948	0.0000008	1.6839265	0.7713504	0.4580638	0.3926261	0.3174358	4.0398222	0.0000339
10402	STGAL6	7.1023687	2.5675473	0.3615058	0.0000000	2.1228841	0.2637074	0.1242207	0.0000000	0.1786523	2.8133787	0.0014903
90102	PHLDB2	0.5507542	0.0010000	0.0018157	0.00007337	0.1318356	0.0010000	0.0075852	0.2675667	0.6435001	0.6435001	0.0000000
8564	KMO	8.2253132	2.0007425	0.2432421	0.0000000	2.2247647	1.0249075	0.4606813	0.0067657	3.6764001	0.7314568	0.0648504
5218	CDK14	2.0185754	0.3391038	0.1679916	0.0000063	3.1221648	0.6226507	0.1994291	0.0000000	3.0108219	0.5974359	0.0000003
1806	DPYD	3.3888853	0.3645757	0.1075808	0.0000000	0.2610757	0.1171487	0.4487156	0.4328249	1.6767562	0.3269955	0.0000121
343450	KCNT2	0.4118011	0.0513902	0.1247938	0.0471928	3.4698050	0.4953949	0.1427731	0.0000000	0.2578501	0.6337780	0.0000002
83464	APH1B	0.1281804	0.0399003	0.3119844	0.3852453	0.1636422	0.0428335	0.2617508	0.4125008	1.3918526	0.2690110	0.1932755
27115	PDE7B	0.1587862	0.0010000	0.0062978	0.0661648	0.4392162	0.144956	0.3221548	0.0984468	1.3547175	0.2591889	0.0000000
23015	GOLGA8A	5.8986274	0.2300350	0.0389981	0.0000000	0.7059857	0.0010000	0.00165	0.0520454	48.1808340	9.1555903	0.0000000
5744	PTHLH	0.0726086	0.0010000	0.0137725	0.3655305	0.5098290	0.0485266	0.0951821	0.049768	1.1263197	0.2031773	0.0015667
627	BDNF	2.1973208	0.5141474	0.2339883	0.0361903	0.1753263	0.0010000	0.0057037	0.6809112	1.0651651	0.1921456	0.1803905
283629	TSSK4	2.3824911	0.5170784	0.2170327	0.0000000	5.2233613	1.5230624	0.2915705	0.0000000	1.8077126	0.3260941	0.1803905
1368	CPM	0.3437074	0.0010000	0.0029095	0.1585240	0.1096989	0.0010000	0.0091159	0.6732193	0.6664572	0.1202225	0.1803905
26206	SPAG8	2.9773546	0.8917328	0.2995051	0.0007003	0.3801055	0.1591887	0.4188012	0.5023712	1.3855597	0.2494918	0.0078604
3762	KCNJ5	2.2249112	0.65333064	0.2936324	0.0051946	0.5012552	0.0874693	0.1745005	0.1772482	0.5075483	0.0915569	0.1803905
152110	NEK10	4.2918319	1.5373529	0.3582044	0.0000072	0.1014665	0.0010000	0.0098555	0.4409313	0.3082211	0.0556001	0.1961664
1010	CDH12	0.4318374	0.1347266	0.3119844	0.3824163	0.4134807	0.0010000	0.0024185	0.2670027	0.8373436	0.1510488	0.1960629
55336	FBXL8	0.4907345	0.0278366	0.0567244	0.0003597	0.0284772	0.0010000	0.031158	0.6812105	2.2837117	0.4057180	0.0000000
345557	PLCXD3	1.9192627	0.2661245	0.1386598	0.0000817	2.24660504	0.4275676	0.1903642	0.0000019	16.5399937	2.9006558	0.1758807
55638	SYBU	8.2234030	2.9454354	0.3577422	0.0000001	0.7007478	0.2934740	0.4188012	0.2725578	7.0677454	0.12287545	0.1738703
131583	FAM43A	69.0067131	14.7195222	0.2133057	0.0000000	31.2423448	8.2513803	0.2641089	0.0000000	62.4141839	10.4877646	0.1680350
1942	EFNAL1	0.2479679	0.1031495	0.4159793	0.3776809	0.05272616	0.0010000	0.0189332	0.6587371	2.1796995	0.3469385	0.1591681
79812	MMRN2	22.9520992	0.60683880	0.26463936	0.0000000	24.2941044	12.0463511	0.4958549	0.0000000	15.5892159	2.4492884	0.1571143
5256	PHKA2	12.4183253	5.52353619	0.4448095	0.0000003	0.8633323	0.0821738	0.0951821	0.0149734	59.7933143	9.2034880	0.1539217
716	C1S	0.9925847	0.1032237	0.1039948	0.0218519	0.3167971	0.1105625	0.3490010	0.5954081	1.5397173	0.2314586	0.1503254
56918	C2orf83	0.9025628	0.0889218	0.0985214	0.0000107	0.1516134	0.0317479	0.2094006	0.2730599	0.2210643	0.0332316	0.1503254
11174	ADAMTS6	1.1246060	0.3505896	0.3119844	0.1262844	0.2392890	0.0010000	0.0041790	0.4425563	3.4890228	0.5244887	0.1503254
342908	ZNF404	0.65533797	0.24533619	0.3743813	0.0760670	0.2510082	0.0876021	0.3490010	0.3651483	0.6099829	0.0916959	0.1536881
166348	KBTBD12	0.2803524	0.0874656	0.3119844	0.3848894	0.178967	0.0010000	0.0055879	0.4449915	0.50012160	0.6864350	0.0000000
9153	SLC28A2	0.72064409	0.7358064	0.1021040	0.0000000	0.4181882	0.0010000	0.0203913	0.0911851	0.7113767	0.0216043	0.1175961
77957	PAQR6	1.481770	0.1849165	0.1247938	0.0000000	0.3120318	0.1089957	0.03490010	0.5963572	0.8838498	0.1288503	0.0690985
494513	DFNB59	2.9508892	0.2832712	0.0959952	0.0000000	0.7244747	0.0010000	0.0013803	0.0913737	1.2323989	0.1587949	0.1288503
2256	FGF11	5.7224426	0.3173890	0.0554639	0.0000000	1.9481384	0.8498837	0.4362513	0.0652891	3.0575534	0.3558410	0.1163809
64168	NECAB1	0.7390143	0.2515210	0.3403467	0.0449544	0.4288484	0.0898011	0.2094006	0.0739502	1.6153449	0.1879954	0.0000031
3433	IIFT2	1.481770	0.1849165	0.1247938	0.0000000	0.3120318	0.1089957	0.03490010	0.5017332	0.4188012	0.0675964	0.0000498
283120	H19	7181.3736710	1497.7270621	0.2085572	0.0000000	23.7763917	6.2984702	0.2649044	0.0000000	692.3128979	76.9161099	0.1111002
7042	TGFb2	0.9229629	0.0822714	0.0891384	0.0000145	1.2624701	0.0440603	0.0349001	0.0000003	14.4194509	1.5680580	0.1087460
256764	WDR72	6.3769729	1.3852928	0.2172336	0.0000000	1.2664083	0.4104079	0.3240724	0.0006974	9.8188137	1.0574450	0.0000000
5143	PDE4C	2.1957795	0.6044550	0.2752804	0.0000029	0.5771404	0.1726479	0.2991437	0.0675964	0.8515343	0.09033580	0.1061120
283796	GOLCA8IP	6.5451002	0.4537710	0.0693299	0.0000000	0.4642313	0.0010000	0.0021542	0.1583442	1.2691114	0.10224391	0.0002244989
5104	SERPPNA5	146.1953719	23.4808819	0.1606130	0.0000000	2.0017686	0.0010000	0.0000496	0.0424059	1.0442059	0.02244989	0.0000000
387496	RASL11A	5.8176312	1.2565457	0.2159892	0.0000041	32.2739602	6.4303241	0.1992085	0.0000000	8.5037864	0.7826541	0.0920360

Table SIV. Continued.

GeneID	Symbol	Hep3B-C/ Hep3B		Hep3B-FDR		Huh7		Huh7-C		Huh7-C/Huh7		Huh7FDR		MHCC97-H		MHCC97-H-C		MHCC97-H-C/ MHCC97-H		FDR
		Hep3B	Hep3B-C	Hep3B	FDR	Huh7	Huh7	Huh7-C	Huh7-C	Huh7-C/Huh7	Huh7	MHCC97-H	MHCC97-H-C	MHCC97-H	MHCC97-H-C	MHCC97-H-C	MHCC97-H-C/ MHCC97-H	MHCC97-H-C		
7955	STL	0.7105322	0.0806091	0.1134489	0.0015201	0.1233691	0.0010000	0.0080843	0.26682040	0.5009963	0.0451875	0.0901952	0.0126541	0.0126541	0.0126541	0.0126541	0.0126541	0.0126541	0.0126541	
10537	UBD	230.052916	52.2777207	0.2272421	0.0000000	0.2228364	0.0010000	0.0044876	0.6709455	10.830447	0.9768536	0.0901952	0.0901952	0.0901952	0.0901952	0.0901952	0.0901952	0.0901952		
7802	DNALI1	0.1303337	0.0010000	0.0076726	0.3717443	0.1663912	0.0010000	0.0060099	0.4450415	9.1990213	0.8205902	0.0892041	0.0892041	0.0892041	0.0892041	0.0892041	0.0892041	0.0892041		
55195	C14orf105	3.0237216	0.0857595	0.0283622	0.0000000	2.7197217	1.285934	0.4728401	0.4728401	11.2997392	0.9614930	0.0850898	0.0850898	0.0850898	0.0850898	0.0850898	0.0850898	0.0850898		
10397	NDRG1	144.8319828	22.3603871	0.1543885	0.0000000	254.096322	109.6664055	0.4315950	0.0000000	562.5126320	46.7359703	0.0830843	0.0830843	0.0830843	0.0830843	0.0830843	0.0830843	0.0830843		
5460	POU5F1	1.2321700	0.0010000	0.0008116	0.0111498	1.4157507	0.4940984	0.3490010	0.2275579	2.1025036	0.1723962	0.0819957	0.0819957	0.0819957	0.0819957	0.0819957	0.0819957	0.0819957		
8875	VNN2	4.1347789	1.8274811	0.4419780	0.0152908	0.9897538	0.1151417	0.1163337	0.0425518	4.5432160	0.3615674	0.0795840	0.0795840	0.0795840	0.0795840	0.0795840	0.0795840	0.0795840		
23460	ABC A6	0.0651915	0.0010000	0.0153394	0.3613403	0.1664541	0.0010000	0.0060077	0.1578379	0.6067579	0.0456056	0.0751627	0.0037835	0.0037835	0.0037835	0.0037835	0.0037835	0.0037835		
6506	SLC1A2	0.1437840	0.0717734	0.4991751	0.3602560	1.7805567	0.1537524	0.0863508	0.0000000	0.5576014	0.0402344	0.0721562	0.0000059	0.0000059	0.0000059	0.0000059	0.0000059	0.0000059		
100133941	CD24	776.6632041	99.3141801	0.1278729	0.0000000	468.9756389	177.5034923	0.3784919	0.0000000	274.906870	19.2778471	0.0701250	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
5139	PDE3A	0.8371824	0.1044752	0.1247938	0.0032838	2.3513454	1.1190299	0.4759105	0.0159628	0.8441252	0.0585662	0.0693809	0.0020549	0.0020549	0.0020549	0.0020549	0.0020549	0.0020549		
7145	TNS1	12.0281184	0.5031400	0.0418303	0.0000000	8.7073167	1.7963718	0.2063060	0.0000000	3.8306761	0.2585439	0.0674930	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
8743	TNFSF10	1.9627859	0.7348304	0.3743813	0.0760964	18.5429267	4.7244549	0.2546764	0.0000000	7.0028396	0.4119279	0.0588230	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
56892	C8orf4	109.2456847	1.6453840	0.0150613	0.0000000	21.7619854	9.4412420	0.4338410	0.0000000	27.9031409	1.5811918	0.0566672	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
151887	CCDC80	1.9846573	0.0010000	0.0005039	0.0000000	0.0974509	0.00102616	0.4446919	0.0000000	5.8612574	0.3203985	0.0546638	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
10384	BTN3A3	4.3465122	2.0523912	0.4721927	0.0045340	1.8746614	0.8636215	0.4606813	0.0763129	1.5489290	0.0821800	0.0530560	0.0001663	0.0001663	0.0001663	0.0001663	0.0001663	0.0001663		
221264	AKD1	1.6918867	0.3405434	0.2012803	0.0000036	0.4528840	0.1823775	0.4026935	0.1745524	0.7619483	0.0381801	0.0501085	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
5915	RARB	1.9249979	0.0765552	0.0367041	0.0000021	0.9396348	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0414691	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
3486	IGFBP3	83.8530323	18.0137249	0.2148250	0.0000000	562.8994571	160.8454634	0.2857446	0.0000000	45.4412352	0.0394335	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
4015	LOX	91.2425515	3.4755313	0.0380911	0.0000000	6.9417102	3.3680936	0.4851965	0.0000000	8.0231888	0.3092536	0.0385450	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
11067	C10orf10	8.0447542	1.8823786	0.2339883	0.0000000	12.6240060	0.0010000	0.00000792	0.0000000	12.6091759	0.4689846	0.0371939	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
718	C3	224.0139367	372.1101971	0.1660462	0.0000000	309.6020910	135.342493	0.4371522	0.0000000	1.3648981	0.0473490	0.0346905	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004		
8828	NRP2	0.4145951	0.0520106	0.1254491	0.0043780	0.8601043	0.1039075	0.1208080	0.0000000	9.0439901	0.2900355	0.0320694	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
3990	LIPC	65.8651712	11.8189801	0.1794420	0.0000000	50.2873936	23.5922747	0.4691489	0.0000000	15.5260426	0.4517339	0.0290952	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
715	C1R	16.6956787	4.8156756	0.2884384	0.0000000	1.00010656	0.4210656	0.4188012	0.0000000	0.2722735	37.6262370	0.9916713	0.0263558	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
84913	ATO18	0.4122788	0.0010000	0.0024255	0.00018180	0.1127867	0.0393627	0.3490410	0.0000000	1.6445189	0.0412922	0.0250542	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
9971	NR1H4	26.5827885	1.6084202	0.0005061	0.0000000	4.7306200	1.6151000	0.3414100	0.0000000	0.0005849	15.6196044	0.3381153	0.0216469	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
7098	TLR3	0.9082645	0.0708411	0.0779961	0.0043754	0.0724713	0.0010000	0.0137986	0.0000000	0.6712943	3.6984100	0.0794236	0.0214751	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
744	MPPED2	0.4245175	0.1513633	0.3565536	0.1292421	0.0387116	0.0010000	0.0258320	0.0000000	0.6749789	0.0470372	0.0212598	0.6155701	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
3131	HLF	8.1395843	1.3081879	0.1607193	0.0000000	18.4605561	4.2447986	0.2299388	0.0000000	0.0478268	0.0000000	0.0209088	0.6168037	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
7045	TGFBI	140.9325738	35.2518175	0.2501325	0.0000000	168.5298506	16.6991169	0.0990870	0.0000000	31.0264227	0.6027413	0.0194267	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
84171	LOXL4	20.5811812	4.2414000	0.2060815	0.0000000	37.5444279	7.0668097	0.1882253	0.0000000	3.5147826	0.0660451	0.0187907	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
4986	OPRK1	0.2784868	0.1303253	0.4679767	0.3613981	0.0444415	0.0000000	0.0225015	0.6597469	0.0539993	0.0010000	0.0174955	0.6001743	0.0185188	0.0000000	0.0000000	0.0000000	0.0000000		
91752	ZNF804A	0.0736935	0.0010000	0.0135697	0.3649468	0.5174465	0.1477549	0.2855463	0.1074424	0.0571574	0.0010000	0.0209088	0.6132770	0.0174955	0.0000000	0.0000000	0.0000000	0.0000000		
1612	DAPK1	18.9546674	4.0965855	0.2162837	0.0000000	7.9442473	3.5750158	0.4501134	0.0000000	30.7557534	0.5287726	0.0171926	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
114792	KLHL32	0.3627571	0.0010000	0.0027567	0.1062791	0.0571513	0.0000000	0.0172743	0.0000000	0.01264991	0.0187907	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
912	CD1D	0.1825292	0.0010000	0.0054786	0.1638605	0.0061028	0.1599389	0.3137900	0.0000000	0.0171654	0.6759801	0.0707858	0.0010000	0.0175367	0.6266315	0.0185188	0.0000000	0.0000000		
220965	FAM13C	0.1946738	0.0607352	0.3119844	0.3820948	0.3106642	0.0650533	0.2094006	0.0000000	0.2721684	0.0754955	0.0010000	0.0149823	0.6192858	0.0185188	0.0000000	0.0000000	0.0000000		
154822	LOC154822	0.0860553	0.0010000	0.0116204	0.3695500	0.0549315	0.0000000	0.0182045	0.0000000	0.6794779	0.06677454	0.0010000	0.0149823	0.6192858	0.0185188	0.0000000	0.0000000	0.0000000		
7																				

Table SIV. Continued.

GenelD	Symbol	Hep3B-C/ Hep3B		Hep3B-C/ Hep3B		Hep3B-C/ Hep3B		Huh7-C/ Huh7		Huh7-C/Huh7		MHCC97-H-C/ MHCC97-H		MHCC97-H-C/ MHCC97-H				
		FDR	Huh7	FDR	Huh7	FDR	Huh7	FDR	Huh7	FDR	Huh7	FDR	Huh7	FDR	Huh7	FDR		
171389	NLRP6	0.2577484	0.0804135	0.3119844	0.0830903	0.0822840	0.0010000	0.0121560	0.66676497	0.0999561	0.0010000	0.0100044	0.6085323	0.0010000	0.0100007	0.60606029		
283856	LOC283856	0.5156894	0.0010000	0.0019392	0.0272527	0.0822947	0.0010000	0.0121515	0.6656992	0.0999935	0.0010000	0.0100000	0.0099969	0.6123221	0.0010000	0.0099969	0.6123221	
100131454	DBL5P	0.5158820	0.2414207	0.4679767	0.3618480	0.0823254	0.0010000	0.0121469	0.6710617	0.1000388	0.0010000	0.0100000	0.0099949	0.6066549	0.0010000	0.0099949	0.6066549	
340307	CTAGE6P	0.1296972	0.0010000	0.0077103	0.3610834	0.0827893	0.0010000	0.0120789	0.6658709	0.1005945	0.0010000	0.0100000	0.0097262	0.3665319	0.0010000	0.0097262	0.3665319	
56896	DPYSL5	0.1988409	0.0413568	0.2079896	0.2043780	1.2269477	0.0442972	0.0361036	0.0000005	0.1028153	0.0000000	0.1041347	0.0010000	0.0096029	0.3647002	0.0010000	0.0096029	0.3647002
55422	ZNF331	17.2526321	1.2147395	0.0704089	0.0000000	15.5979407	0.5098166	0.3250312	0.0000000	0.1046434	0.0010000	0.0095563	0.0000000	0.0095563	0.60003270	0.0010000	0.0095563	0.60003270
4807	NHLH1	0.1349176	0.0010000	0.0074119	0.3571893	0.6889728	0.2705087	0.3926261	0.3172753	0.1046434	0.0010000	0.0091791	0.0000000	0.1089432	0.0010000	0.0091791	0.6019094	
553137	LOC53137	25.9855525	0.8764352	0.0337280	0.0000000	14.6146403	0.8448721	0.0578100	0.0000000	0.1240883	0.0010000	0.0098387	0.0000000	0.1240883	0.0010000	0.0098387	0.6034486	
283050	LOC283050	0.2839260	0.0010000	0.0035220	0.1593005	0.2718567	0.0948783	0.3490010	0.5964760	0.1101079	0.0010000	0.0090820	0.6196110	0.0010000	0.0090820	0.6196110		
151295	SLC23A3	0.5716126	0.0010000	0.0017494	0.0273649	0.2736571	0.0010000	0.0036542	0.2684882	0.1108371	0.0010000	0.0090222	0.6179344	0.0010000	0.0090222	0.6179344		
4093	SMAD9	1.9074809	0.4577726	0.2399880	0.0069985	0.1873227	0.0010000	0.0053384	0.4422600	0.1138047	0.0010000	0.0087870	0.6107373	0.0010000	0.0087870	0.6107373		
1592	CYP26A1	0.3075760	0.0010000	0.0032512	0.1572465	2.3560109	0.0010000	0.0004244	0.0000008	0.1192795	0.0010000	0.0083837	0.0000000	0.1192795	0.0010000	0.0083837	0.6034486	
26253	CLEC4E	0.3199759	0.0010000	0.0031252	0.1596190	2.1021247	0.0010000	0.0009719	0.6818700	0.1240883	0.0010000	0.0080588	0.6227726	0.0010000	0.0080588	0.6227726		
84931	LOC84931	0.5140259	0.1069120	0.2079896	0.2037541	0.2187446	0.0010000	0.0045715	0.4410785	0.1328945	0.0010000	0.0075248	0.6069670	0.0010000	0.0075248	0.6069670		
100125288	ZGLP1	0.5231122	0.0010000	0.0019116	0.0664973	0.1113057	0.0010000	0.0089843	0.6789420	0.1352437	0.0010000	0.0073941	0.6189609	0.0010000	0.0073941	0.6189609		
710	SERPING1	91.845301	7.9969984	0.0870932	0.0000000	41.58845636	64.4346040	0.1549339	0.0000000	0.1362068	0.0010000	0.0073418	0.0000000	0.1362068	0.0010000	0.0073418	0.6269645	
1880	GPR183	1.7407766	0.0010000	0.0005745	0.0002939	0.1234651	0.0010000	0.0080995	0.6702489	0.1500182	0.0010000	0.0066659	0.6111063	0.0010000	0.0066659	0.6111063		
81607	PVRL4	0.1971753	0.0010000	0.0050716	0.1592138	0.0629312	0.0010000	0.0158904	0.6790610	0.1529312	0.0010000	0.0065389	0.3666520	0.0010000	0.0065389	0.3666520		
1101	CHAD	0.6110691	0.2541921	0.4159793	0.3784402	0.1300208	0.0010000	0.0076911	0.6707712	0.1579838	0.0010000	0.0063298	0.6120045	0.0010000	0.0063298	0.6120045		
25789	TMEM59L	0.8530056	0.3991867	0.4679767	0.3615386	2.5863611	0.1425225	0.0551054	0.0001752	0.1653999	0.0010000	0.0060460	0.6050475	0.0010000	0.0060460	0.6050475		
400831	C20orf202	0.2152457	0.0010000	0.0046459	0.3578605	0.2747945	0.0010000	0.0036391	0.4391234	0.1669467	0.0010000	0.0059899	0.6011937	0.0010000	0.0059899	0.6011937		
56109	PCDHGA6	0.2998949	0.0010000	0.0033345	0.0277228	0.0478778	0.0010000	0.0208952	0.6674197	0.1744511	0.0010000	0.0057323	0.2054193	0.0010000	0.0057323	0.2054193		
2743	GLRB	0.6774114	0.2113418	0.3119844	0.1262609	0.5044789	0.0754558	0.1495719	0.1122885	0.1751357	0.0010000	0.0057099	0.3629260	0.0010000	0.0057099	0.3629260		
401335	C7orf65	0.3558097	0.07404047	0.2079896	0.2043422	0.0757077	0.0010000	0.0132087	0.6784664	0.1839797	0.0010000	0.0054354	0.3664119	0.0010000	0.0054354	0.3664119		
383	ARG1	20.2809903	3.8708515	0.1908611	0.0000000	0.9138294	0.1594637	0.1745005	0.1775107	0.1850665	0.0010000	0.0042142	0.2663319	0.0010000	0.0042142	0.2663319		
652995	UCA1	6.3483749	0.0010000	0.0001575	0.0000000	590.7071197	5.3851135	0.0091164	0.0000000	0.1893794	0.0010000	0.0051348	0.6135959	0.0010000	0.0051348	0.6135959		
90246	LOC90246	6.2773461	0.1566747	0.0249588	0.0000000	0.0801401	0.0010000	0.0124782	0.6851186	0.1947509	0.0010000	0.0051348	0.3692329	0.0010000	0.0051348	0.3692329		
645843	TMEM14E	0.2670178	0.0010000	0.0037451	0.36272855	0.1704448	0.0010000	0.0058670	0.6677073	0.2071017	0.0010000	0.0048285	0.6085846	0.0010000	0.0048285	0.6085846		
50836	CLEC4A	0.5390383	0.0010000	0.0018552	0.1588682	0.1720415	0.0010000	0.0058126	0.6760980	0.2090418	0.0010000	0.0047837	0.6165888	0.0010000	0.0047837	0.6165888		
9744	ACAP1	0.6880312	0.1717240	0.2495876	0.1178028	0.2635136	0.0010000	0.0037949	0.2685594	0.2134576	0.0010000	0.0046848	0.3663319	0.0010000	0.0046848	0.3663319		
7151	TOP1P1	0.5690219	0.1775260	0.3119844	0.2181268	0.0908056	0.0010000	0.0110125	0.6634758	0.2206695	0.0010000	0.0045317	0.3620649	0.0010000	0.0045317	0.3620649		
339483	MTMR9LP	0.2972484	0.0010000	0.0033642	0.1574156	0.0948709	0.0010000	0.0105406	0.6640445	0.2305489	0.0010000	0.0043375	0.3621821	0.0010000	0.0043375	0.3621821		
204010	RPSAP52	0.6051780	0.0010000	0.0016524	0.1591561	0.1931509	0.0010000	0.0051773	0.6787636	0.2346911	0.0010000	0.0042609	0.6186364	0.0010000	0.0042609	0.6186364		
326	AIRE	0.3059407	0.0010000	0.0032686	0.1598952	0.0976452	0.0010000	0.0102412	0.6852474	0.2372906	0.0010000	0.0042142	0.3692735	0.0010000	0.0042142	0.3692735		
3674	ITGA2B	0.8284440	0.1938462	0.2339883	0.0361642	0.1983070	0.0010000	0.0692093	0.5349010	0.2405961	0.0010000	0.0041501	0.2060411	0.0010000	0.0041501	0.2060411		
119369	NUDTP1	0.3220653	0.0010000	0.0031050	0.0360269	0.1411664	0.0010000	0.0024321	0.4407841	0.2497971	0.0010000	0.0040032	0.6063431	0.0010000	0.0040032	0.6063431		
80128	TRIM46	1.2087178	0.1371278	0.11314489	0.0015197	0.2104251	0.0010000	0.0047523	0.2678142	0.2556803	0.0010000	0.0039111	0.2059508	0.0010000	0.0039111	0.2059508		
9080	CLDN9	1.6841660	0.5254336	0.3119844	0.0433020	0.6450298	0.02251161	0.3490010	0.3652813	0.2612512	0.0010000	0.0038277	0.6354148	0.0010000	0.0038277	0.6354148		
128346	Clorf162	0.7530077	0.0010000	0.0013280	0.1568672	0.4806656	0.0010000	0.020804	0.4390261	0.2920202	0.0010000	0.0034244	0.6006836	0.0010000	0.0034244	0.6006836		
200197	Clorf126	0.4452976	0.0674448	0.1386598	0.0070155	0.1579143	0.0010000	0.0243066	0.2729169	0.3070020	0.0010000	0.0032573	0.0086917	0.0010000	0.0032573	0.0086917		
144486	LOC144486	0.4039634	0.0010000	0.0024755	0.0661972	0.4297683	0.1799875	0.4188012	0.5022647	0.3133181	0.0010000	0.0031916	0.2057113	0.0010000	0.0031916	0.2057113		
51129	ANGPTL4	2.3585404	0.1132043	0.0479976	0.0000656	45.8605018	21.3404814	0.4653347	0.0000000	82.8817087	0.2538382	0.0010000	0.0030627	0.6000000	0.0010000	0.0030627	0.6000000	
124093	CCDC78	0.6433305	0.1338061	0.2079896	0.1568672	0.4806656	0.0010000	0.020804	0.4390261	0.2920202	0.0010000	0.003062	0.3639490	0.0010000	0.003062	0.3639490		
1582	CYP8B1	0.2622183	0.1090774	0.4159793	0.3786451	0.1673812	0.0584162	0.3490010	0.5950530	0.2449561	0.0010000	0.0029502						

Table SIV. Continued.

GenID	Symbol	Hep3B	Hep3B-C	Hep3B-C/ Hep3B	Hep3B	FDR	Huh7	Huh7-C	Huh7-C/Huh7	Huh7FDR	MHCC97-H	MHCC97-H-C	MHCC97-H-C/ MHCC97-H	MHCC97-H-C/ FDR	
1748	DLX4	1.2029757	0.2144627	0.1782768	0.0300109	4.3879580	1.83776821	0.4188012	0.0083133	0.3998743	0.0010000	0.0025008	0.2054724		
55259	CASC1	0.1308772	0.0010000	0.0076408	0.3592952	0.0835425	0.0010000	0.0119700	0.6633054	0.4060387	0.0010000	0.0024628	0.1127655		
768	CA9	41.1016708	6.2382560	0.1517762	0.0000000	37.7239509	8.0181297	0.2125495	0.0000000	78.2324674	0.1554228	0.0019867	0.0000000	0.0019867	
202134	FAM153B	0.6591962	0.0010000	0.0015170	0.0272785	0.1051958	0.0010000	0.0095061	0.6685139	0.5112792	0.0010000	0.0019559	0.1129173		
100128573	LOC100128573	3.3007078	0.4119078	0.1247938	0.0471357	0.8427732	0.0010000	0.0011866	0.4397081	0.5120124	0.0010000	0.0019531	0.6026267		
54518	APBB1IP	0.6546341	0.0010000	0.0015276	0.0111212	15.37776545	0.0010000	0.0000650	0.0000000	0.6092890	0.0010000	0.0016413	0.0319863		
286359	LOC286359	0.8567098	0.0010000	0.0011673	0.0111710	0.1093723	0.0010000	0.0091431	0.6848840	0.6644727	0.0010000	0.0015050	0.0608471		
3827	KNG1	125.2691629	8.0271178	0.0640790	0.0000000	9.7515570	2.1494546	0.0000000	0.2204217	0.0000000	0.0010000	0.0013363	0.0320044		
1551	CYP3A7	4.6476505	0.3107131	0.0668538	0.0000000	0.6357265	0.0010000	0.0015730	0.0520754	0.7724495	0.0010000	0.0012946	0.0319803		
11223	MST1P9	1.0997853	0.0010000	0.0009093	0.0000030	0.1002891	0.0010000	0.0099712	0.4449415	0.7920756	0.0010000	0.0012625	0.0002962		
259296	TAS2R50	0.6905081	0.0010000	0.0014482	0.1587963	0.2203852	0.0010000	0.0045375	0.6755674	0.8033475	0.0010000	0.0012448	0.2061108		
3490	IGFBP7	0.6220793	0.0010000	0.0016075	0.1586099	9.7287156	0.4157549	0.0427348	0.0000000	1.2062275	0.0010000	0.0008290	0.0607336		
1427	CRYGS	4.5104446	0.2558525	0.0567244	0.00003594	0.2617401	0.0010000	0.0038206	0.6722262	1.2721259	0.0010000	0.0007861	0.1131034		
91353	IGLL3P	4.1551361	0.0010000	0.0002407	0.0000468	0.2411217	0.0010000	0.0041473	0.6740393	1.4648933	0.0010000	0.0006826	0.0607130		
158056	MAMDC4	1.0376487	0.0588600	0.0567244	0.0003594	0.2408581	0.0630448	0.2617508	0.4116917	1.7559508	0.0010000	0.0005695	0.0000001		
128872	HMGGB3P1	3.1103967	0.2425988	0.0779961	0.0043733	0.2481815	0.0010000	0.0040293	0.6635385	1.8093412	0.0010000	0.0005527	0.3119562		
9227	LRAT	1.0594948	0.0881456	0.0831959	0.0000629	0.0450870	0.0010000	0.0221793	0.6637032	2.1365625	0.0010000	0.0004680	0.0000000		
7018	TF	3112.9462124	1443.7750073	0.4637970	0.0000000	667.3334803	1.37.7694712	0.2064471	0.0000000	265.934292	0.1041963	0.0003918	0.0000000		
112399	EGLN3	3.9319894	1.4245775	0.3623045	0.0008815	16.5167445	3.7298802	0.2258242	0.0000000	2.6561820	0.0010000	0.0003765	0.0000000		
641522	ARL17B	0.7074878	0.0010000	0.0014135	0.3695798	0.4516090	0.0010000	0.0022143	0.6795375	2.7436731	0.0010000	0.0003645	0.0607748		
441054	C4orf47	2.4812918	0.0010000	0.0004030	0.0018202	0.9050726	0.0010000	0.0011049	0.1581510	3.5740991	0.0010000	0.0002798	0.0002961		
3426	CFI	46.0125691	10.6667153	0.2318218	0.0000000	15.1954619	5.9794824	0.3935045	0.0000000	19.8265617	0.0010000	0.0000504	0.0000000		