

Table SI. Differentially expressed proteins in the Hep3B/KD cells compared with the Hep3B/NC cells.

Gene symbol	Effect of change	Fold change	P-value
<i>HIST2H2AA3</i>	Down	-1.37182	5.67058E-05
<i>HIST2H2AA4</i>	Down	-1.37182	5.67058E-05
<i>TMEM19</i>	Down	-1.4459193	0.001373594
<i>PNMA2</i>	Down	-1.5560553	0.001116705
<i>SLC9A6</i>	Down	-1.7045075	9.89097E-06
<i>AMOTL1</i>	Down	-1.3772317	0.000133181
<i>AQP3</i>	Down	-1.4129851	0.000191273
<i>H2AFV</i>	Down	-1.342085	0.000122071
<i>SERPINE1</i>	Down	-1.3901134	0.000940353
<i>HIST1H2BJ</i>	Down	-2.3048773	1.34605E-05
<i>GIT2</i>	Down	-1.3006763	0.000442315
<i>LSM5</i>	Down	-1.4904279	0.000536249
<i>STAM</i>	Down	-1.3274238	3.74851E-05
<i>GXYLT1</i>	Down	-1.6361399	0.004261592
<i>PTPRJ</i>	Down	-1.4555647	3.59775E-05
<i>RECK</i>	Down	-1.5073851	0.001110072
<i>CLNS1A</i>	Down	-1.5634793	0.000628026
<i>FAM108C1</i>	Down	-1.3057765	0.004031888
<i>VEGFB</i>	Down	-1.452882	3.11221E-05
<i>DCAF6</i>	Down	-1.3443216	0.000339067
<i>KIAA1671</i>	Down	-1.3348737	0.001230842
<i>BIN1</i>	Down	-1.44755	0.000359521
<i>NEK7</i>	Down	-1.4664574	0.001367264
<i>TMX1</i>	Down	-1.5060985	0.000135843
<i>MOB4</i>	Down	-1.5714113	0.001202454
<i>PFKFB2</i>	Down	-1.5253017	0.000102238
<i>DAG1</i>	Down	-1.6286423	0.00012327
<i>TMED10</i>	Down	-1.8581343	4.87216E-05
<i>KIF3B</i>	Down	-1.4097191	0.0005558
<i>HPCAL1</i>	Down	-1.3014216	7.9626E-05
<i>OSBPL8</i>	Down	-1.370526	0.003316887
<i>KIF3C</i>	Down	-1.4620849	0.000347001
<i>HNRNPA0</i>	Down	-1.3922285	0.00161312
<i>HSPE1-MOB4</i>	Down	-1.5714113	0.001202454
<i>DLX2</i>	Down	-1.6198496	9.21066E-06
<i>ARF3</i>	Down	-2.012423	5.88326E-06
<i>CD59</i>	Down	-1.321966	7.80704E-05
<i>SRSF1</i>	Down	-1.3080832	0.000114371
<i>COPS2</i>	Down	-1.3461186	6.70258E-05
<i>SEPHS1</i>	Down	-1.3227257	0.0015156
<i>LXN</i>	Down	-1.3001955	0.022424433
<i>UVRAG</i>	Down	-1.3990698	0.000670983
<i>SOBP</i>	Down	-1.4806559	0.001065958
<i>HELZ</i>	Down	-1.3852427	3.67884E-05
<i>PTEN</i>	Down	-1.383153	0.000447387
<i>RNF182</i>	Down	-1.5335923	0.002431604
<i>FAM168B</i>	Down	-1.3369589	0.000171129
<i>PTGES</i>	Down	-1.3259237	1.29228E-05
<i>MAP1LC3B</i>	Down	-1.5135746	0.000484682
<i>CLDND1</i>	Down	-1.3955233	0.02112282
<i>AGAP1</i>	Down	-1.347604	0.000189941
<i>EMC10</i>	Down	-1.3532999	0.001006392
<i>RBBP5</i>	Down	-1.3246915	0.001374175
<i>STX2</i>	Down	-1.5648973	0.000427796
<i>LYN</i>	Down	-1.4738129	0.001652985
<i>RAB4A</i>	Down	-1.5170394	0.000368804
<i>ZDHHC7</i>	Down	-1.4209862	6.75068E-06
<i>VEZT</i>	Down	-1.5309045	0.000374322
<i>MAPK1IP1L</i>	Down	-1.3069487	0.004239525

Table SI. Continued.

Gene symbol	Effect of change	Fold change	P-value
<i>ARHGEF9</i>	Down	-1.472324	7.07231E-05
<i>HIST2H2BE</i>	Down	-1.4127464	0.000391209
<i>USP22</i>	Down	-1.3525349	0.000855179
<i>LIN54</i>	Down	-1.3730737	0.000379304
<i>VOPP1</i>	Down	-1.4756165	0.001254934
<i>SSU72</i>	Down	-1.5817152	0.000852888
<i>HIST1H2AC</i>	Down	-1.3612778	0.000317913
<i>HIST1H2AD</i>	Down	-1.5839524	0.000290544
<i>ABTB1</i>	Down	-1.3146389	0.002017252
<i>LANCL1</i>	Down	-1.3599246	0.000180018
<i>GJC1</i>	Down	-1.3865935	0.000534241
<i>DOM3Z</i>	Down	-1.3338255	0.000584979
<i>C3orf58</i>	Down	-1.8198737	0.002374118
<i>LOC100652858</i>	Down	-1.3842444	0.000632248
<i>PKD2</i>	Down	-1.3457072	0.000368632
<i>GATAD2A</i>	Down	-1.5418241	0.010367152
<i>AP3D1</i>	Down	-1.3183928	0.002122366
<i>TRIM29</i>	Down	-1.3003715	6.61863E-05
<i>HIST1H2BH</i>	Down	-1.4193206	0.007444501
<i>SPHAR</i>	Down	-1.5170394	0.000368804
<i>TRIM24</i>	Down	-1.314818	0.000573003
<i>TRIM23</i>	Down	-1.4491132	0.000519944
<i>RAB31</i>	Down	-1.448558	0.000278579
<i>CHML</i>	Down	-1.3656325	0.001798067
<i>SLC16A6</i>	Down	-1.4055703	0.000108302
<i>BNC2</i>	Down	-1.3367316	0.002330823
<i>MAPK14</i>	Down	-1.3366501	0.00952509
<i>PTP4A1</i>	Down	-1.3752989	0.004646592
<i>TP53INP1</i>	Down	-1.3236756	0.000291744
<i>LOC100507575</i>	Down	-1.401236	0.000737036
<i>SLC44A1</i>	Down	-1.3654499	7.00674E-05
<i>SEPT2</i>	Down	-1.5397661	0.000586209
<i>ARNT2</i>	Down	-1.6924354	0.004664624
<i>DSTYK</i>	Down	-1.3259174	0.005989519
<i>SLC7A5</i>	Down	-1.3004359	0.00060943
<i>STARD7</i>	Down	-1.4295951	2.42317E-05
<i>ELOVL5</i>	Down	-1.4447501	0.000134781
<i>AAK1</i>	Down	-1.3378531	0.000317477
<i>PRKACA</i>	Down	-1.3993351	1.49009E-05
<i>ASPH</i>	Down	-1.4125004	0.002391845
<i>ZNF445</i>	Down	-1.3575029	0.00240462
<i>HADH</i>	Down	-1.4839163	1.9668E-05
<i>IFRD2</i>	Down	-1.4405876	2.93615E-05
<i>INSR</i>	Down	-1.3842958	0.002982526
<i>HHIPL2</i>	Down	-1.3620915	0.000362884
<i>RBL2</i>	Down	-1.4216489	0.001491622
<i>TACC1</i>	Down	-1.4641591	0.000158919
<i>NEBL</i>	Down	-1.3458067	0.000166199
<i>IGSF3</i>	Down	-1.4666505	0.000501942
<i>HIST1H4L</i>	Down	-1.432762	0.016226895
<i>HIST1H4K</i>	Down	-1.432762	0.016226895
<i>DERL1</i>	Down	-1.4254267	0.00133479
<i>SSH2</i>	Down	-1.4069567	9.10385E-05
<i>CTPS1</i>	Down	-1.5185575	3.09338E-05
<i>ITGB1</i>	Down	-1.3755273	0.000450005
<i>OAZ2</i>	Down	-1.6617217	0.001252478
<i>TASP1</i>	Down	-1.3693696	3.95453E-05
<i>FOXQ1</i>	Down	-1.4441863	0.000243162
<i>HIST1H4A</i>	Down	-1.432762	0.016226895

Table SI. Continued.

Gene symbol	Effect of change	Fold change	P-value
<i>HIST1H4B</i>	Down	-1.432762	0.016226895
<i>HIST1H4E</i>	Down	-1.432762	0.016226895
<i>TEF</i>	Down	-1.3211092	0.000355249
<i>HIST1H4F</i>	Down	-1.432762	0.016226895
<i>HIST1H4C</i>	Down	-1.432762	0.016226895
<i>HIST1H4D</i>	Down	-1.432762	0.016226895
<i>B3GNT2</i>	Down	-1.3035	0.014655483
<i>ENTPD4</i>	Down	-1.4314753	0.004720747
<i>HIST1H4I</i>	Down	-1.432762	0.016226895
<i>B4GALT6</i>	Down	-1.5287665	0.002719276
<i>UBE2D1</i>	Down	-1.4852414	0.000536797
<i>HIST1H4J</i>	Down	-1.432762	0.016226895
<i>HIST1H4H</i>	Down	-1.432762	0.016226895
<i>B4GALT1</i>	Down	-1.3401494	1.11681E-05
<i>HIST1H3J</i>	Down	-1.6074306	0.000213177
<i>LOC100287223</i>	Down	-1.4555647	3.59775E-05
<i>REEP1</i>	Down	-1.5749543	0.001906328
<i>NR4A3</i>	Down	-1.4445372	0.000539192
<i>WIP12</i>	Down	-1.3620391	0.000793815
<i>PPIF</i>	Down	-1.5818852	6.73694E-06
<i>LOC100653189</i>	Down	-1.3842444	0.000632248
<i>PLEKHA3</i>	Down	-1.6101476	0.000873142
<i>TET3</i>	Down	-1.5425655	0.001222944
<i>MYO10</i>	Down	-1.5156685	0.00055573
<i>DIO2</i>	Down	-1.9261419	7.96395E-06
<i>HIST1H3A</i>	Down	-1.6074306	0.000213177
<i>HIST1H3B</i>	Down	-1.6074306	0.000213177
<i>HIST1H3C</i>	Down	-1.6074306	0.000213177
<i>HIST1H3D</i>	Down	-1.6074306	0.000213177
<i>HIST1H3E</i>	Down	-1.6074306	0.000213177
<i>HIST1H3F</i>	Down	-1.6074306	0.000213177
<i>SMC1A</i>	Down	-1.5257125	0.000121713
<i>HIST1H3G</i>	Down	-1.6074306	0.000213177
<i>HIST1H3H</i>	Down	-1.6074306	0.000213177
<i>HIST1H3I</i>	Down	-1.6074306	0.000213177
<i>HIST4H4</i>	Down	-1.432762	0.016226895
<i>SGPP1</i>	Down	-1.4370948	0.003009267
<i>CLSTN1</i>	Down	-1.7213849	1.93999E-05
<i>PAWR</i>	Down	-1.3284928	0.000563364
<i>AMMECR1</i>	Down	-1.667316	9.03393E-05
<i>HIST2H4A</i>	Down	-1.432762	0.016226895
<i>CXADR</i>	Down	-1.3101225	0.012799084
<i>HIST2H4B</i>	Down	-1.432762	0.016226895
<i>RAET1G</i>	Down	-1.3531115	0.003535511
<i>HMOX1</i>	Down	-1.5142689	0.001203859
<i>RAET1L</i>	Down	-1.3531115	0.003535511
<i>MGLL</i>	Down	-1.3923712	7.85631E-05
<i>MSN</i>	Down	-1.4259092	6.232E-05
<i>PPP1R14C</i>	Down	-1.384155	0.009065013
<i>AKT2</i>	Down	-1.3371891	0.000208266
<i>UBE2A</i>	Down	-1.3709927	0.000420888
<i>ACADM</i>	Down	-1.3919108	0.000166014
<i>ALDH5A1</i>	Down	-1.5549151	0.001758928
<i>TIFA</i>	Down	-1.4630783	0.023580443
<i>MBNL1</i>	Down	-1.6192331	0.003479082
<i>TMEM245</i>	Down	-1.3363726	0.001550311
<i>ISCA1</i>	Down	-1.436574	6.44692E-05
<i>SDC1</i>	Down	-1.4717805	0.000290883
<i>MAGT1</i>	Down	-1.4829828	0.001527422

Table SI. Continued.

Gene symbol	Effect of change	Fold change	P-value
<i>KIF1B</i>	Down	-1.3321264	0.000117451
<i>ULBP2</i>	Down	-1.3531115	0.003535511
<i>KPNA3</i>	Down	-1.403307	0.002639797
<i>LUM</i>	Down	-2.1627452	0.001336538
<i>PPM1A</i>	Down	-1.4600227	0.002316781
<i>KITLG</i>	Down	-1.5602343	0.00032742
<i>DCN</i>	Down	-1.3046162	0.000978438
<i>SEC62</i>	Down	-1.3691652	0.001088112
<i>CALML4</i>	Down	-1.364446	0.001892427
<i>TMEM33</i>	Down	-1.4537312	0.000378766
<i>SEC22B</i>	Down	-1.441633	0.000899207
<i>CYBASC3</i>	Down	-1.4420793	0.000269879
<i>LIPA</i>	Down	-1.401236	0.000737036
<i>KAT2B</i>	Down	-1.3938793	9.59198E-05
<i>C6orf89</i>	Down	-1.3685281	0.000259633
<i>FZD10</i>	Down	-1.5844405	0.000562307
<i>ID2</i>	Down	-1.540867	0.004376103
<i>DR1</i>	Down	-1.3521508	0.00460049
<i>WSB2</i>	Down	-1.4110974	0.000955695
<i>GDF11</i>	Down	-1.4627866	5.48459E-05
<i>ALKBH5</i>	Down	-1.3842444	0.000632248
<i>CBS</i>	Down	-1.3234975	0.000865493
<i>GPR126</i>	Up	1.3507925	0.003545519
<i>DZIP1</i>	Up	1.3811926	0.000513606
<i>ZNF321P</i>	Up	1.413191	0.001478913
<i>CTGF</i>	Up	1.7613876	2.91823E-05
<i>PRRT1</i>	Up	1.34764	0.00024553
<i>MAP3K8</i>	Up	1.3766054	0.001558255
<i>DOC2A</i>	Up	1.359193	0.002382447
<i>F3</i>	Up	1.426257	2.67506E-05
<i>WFDC3</i>	Up	1.3443601	0.004112941
<i>ASZ1</i>	Up	1.6095357	0.001101742
<i>SERPINH1</i>	Up	1.3350375	0.00011344
<i>CAMLG</i>	Up	1.304223	0.00154913
<i>GART</i>	Up	1.3082745	0.000410891
<i>NIPSNAP1</i>	Up	1.3033056	0.003699186
<i>RGS7</i>	Up	1.5406768	0.000143065
<i>BMP5</i>	Up	1.4196317	0.000855665
<i>WASF1</i>	Up	1.3322054	0.02189683
<i>CYR61</i>	Up	1.6803367	1.21799E-05
<i>IP6K2</i>	Up	1.3430773	0.001096787
<i>GTF2H3</i>	Up	1.3717024	0.001531128
<i>KLRG1</i>	Up	1.4026812	0.001182361
<i>PSG5</i>	Up	1.3279887	0.000184053
<i>SERP1</i>	Up	1.3677367	0.000482838
<i>ZNF816-ZNF321P</i>	Up	1.413191	0.001478913
<i>IL6</i>	Up	1.4825044	0.000913129
<i>MEX3A</i>	Up	1.3011888	0.00559471
<i>FAM165B</i>	Up	1.3311284	0.04505998
<i>MEOX1</i>	Up	1.4095151	0.006847956
<i>SLC50A1</i>	Up	1.3586274	0.000233796
<i>SLFN12</i>	Up	1.4701191	0.001964173
<i>BIK</i>	Up	1.4809011	0.000327102
<i>TUFT1</i>	Up	1.3271273	0.006555307
<i>CBX5</i>	Up	1.320757	0.002443153
<i>C6orf57</i>	Up	1.3449835	0.03827391
<i>IL1A</i>	Up	1.4777228	0.000614268
<i>BCL10</i>	Up	1.3139063	0.023471981
<i>IQCK</i>	Up	1.3294736	2.22767E-05

Table SI. Continued.

Gene symbol	Effect of change	Fold change	P-value
<i>ZNF816</i>	Up	1.413191	0.001478913
<i>HLA-F</i>	Up	1.3162881	0.003183266
<i>OGFRL1</i>	Up	1.38813	0.046892077
<i>NMNAT1</i>	Up	1.4188741	0.000169741
<i>MEST</i>	Up	1.3143299	0.002501523
<i>LOC100507547</i>	Up	1.34764	0.00024553
<i>PSMB9</i>	Up	1.4460064	0.000405659
<i>RAP1A</i>	Up	2.2014196	7.60379E-08
<i>YIPF4</i>	Up	1.3359233	0.001250093
<i>CPT2</i>	Up	1.4308985	0.000470527
<i>IFI44L</i>	Up	1.4099203	0.000651286
<i>FRMD3</i>	Up	1.3140365	0.001707995
<i>KLHL28</i>	Up	1.37372	0.038772605
<i>ZNF91</i>	Up	1.5537021	0.001009226
<i>PCDHGB3</i>	Up	1.3502897	0.000182825
<i>PLLP</i>	Up	1.5611061	0.000192737
<i>LEPREL1</i>	Up	1.3103751	0.000296033
<i>DNAH2</i>	Up	1.3111426	0.007019857
<i>TPM1</i>	Up	1.3465065	0.00015215
<i>COL9A3</i>	Up	1.4199182	0.000158482
<i>RASGRP1</i>	Up	1.476049	0.000348323
<i>OLR1</i>	Up	1.4691945	0.000510733
<i>TMC5</i>	Up	1.4350634	0.000994652
<i>ANXA3</i>	Up	1.374357	0.001030875
<i>IFIT2</i>	Up	1.397796	0.001837246
<i>IGFBP3</i>	Up	2.049757	3.05079E-05

Hep3B/KD cells, Hep3B cells transected with si-WIPI2; Hep3B/NC cells, Hep3B cells transected with the si-NC (negative control).