**Supplementary Table 6. Thirty-four SGGs differentially expressed in HCC and normal tissue**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene** | **Normal** | **HCC** | **logFC** | ***p*-value** | **FDR** |
| TPM2 | 2.0447539 | 12.2187197 | 2.57909401 | 1.48E-23 | 1.17E-22 |
| MCM5 | 1.97738362 | 8.53781604 | 2.11027429 | 3.84E-24 | 3.48E-23 |
| MAEL | 0.03960494 | 1.12523227 | 4.82839877 | 1.26E-05 | 1.54E-05 |
| EPPK1 | 0.04367077 | 0.74444641 | 4.09142824 | 9.95E-11 | 1.59E-10 |
| HSPB1 | 71.3546348 | 339.067175 | 2.24849208 | 7.65E-24 | 6.39E-23 |
| PXDNL | 0.01134849 | 0.13581537 | 3.58107461 | 3.80E-22 | 1.93E-21 |
| MSI1 | 0.14943432 | 2.5720603 | 4.10534101 | 6.66E-07 | 8.76E-07 |
| RACGAP1 | 0.41314774 | 3.7478658 | 3.18133961 | 2.52E-28 | 3.58E-26 |
| KIF23 | 0.06929775 | 1.1986366 | 4.11244206 | 8.04E-26 | 1.63E-24 |
| HMGA1 | 7.33578184 | 39.0476863 | 2.41221443 | 5.29E-21 | 2.13E-20 |
| IGF2BP1 | 0.00914217 | 1.85759295 | 7.66668174 | 2.86E-16 | 6.81E-16 |
| TERT | 0.00191236 | 1.36933944 | 9.48390743 | 5.48E-26 | 1.23E-24 |
| MKI67 | 0.15935288 | 2.81374716 | 4.14219573 | 1.44E-26 | 4.72E-25 |
| RFC4 | 1.03366596 | 5.60937175 | 2.44006916 | 4.41E-28 | 4.54E-26 |
| ADAMTS13 | 5.10974702 | 1.12056063 | -2.1890312 | 5.33E-28 | 4.54E-26 |
| SFN | 1.15817908 | 25.441403 | 4.45724798 | 3.83E-16 | 9.07E-16 |
| SPAG5 | 1.32833916 | 5.66319723 | 2.09199322 | 1.28E-19 | 4.15E-19 |
| KPNA2 | 4.54772088 | 20.0846263 | 2.142876 | 3.99E-24 | 3.54E-23 |
| ELAVL2 | 0.00232713 | 0.02040405 | 3.13223063 | 5.01E-13 | 9.65E-13 |
| IGF2BP3 | 0.01040474 | 0.52756052 | 5.66402406 | 1.66E-12 | 3.04E-12 |
| SLC6A8 | 0.49697233 | 6.25034329 | 3.652698 | 7.21E-13 | 1.35E-12 |
| ATAD2 | 1.3650404 | 7.14888766 | 2.38877513 | 1.92E-23 | 1.41E-22 |
| SMC4 | 0.57928158 | 2.41919709 | 2.06219161 | 1.55E-13 | 3.06E-13 |
| WDR62 | 0.08008085 | 0.79586282 | 3.31299058 | 1.21E-26 | 4.72E-25 |
| MCM4 | 1.48391158 | 7.59765598 | 2.35614926 | 7.59E-25 | 8.73E-24 |
| MEX3A | 0.18904241 | 1.22362177 | 2.69437584 | 7.86E-21 | 3.04E-20 |
| TUBB8 | 0.00440824 | 0.02211987 | 2.32706916 | 0.0073869 | 0.0079666 |
| CD24 | 7.05937648 | 47.1900571 | 2.74087025 | 1.14E-06 | 1.47E-06 |
| CDK1 | 0.22870803 | 4.31980718 | 4.23938801 | 7.09E-28 | 5.03E-26 |
| IGF2BP2 | 0.52043338 | 3.9831502 | 2.93612448 | 1.22E-07 | 1.67E-07 |
| TUBB3 | 0.01571334 | 0.10985271 | 2.80550874 | 4.65E-10 | 7.12E-10 |
| PYCR1 | 0.86156849 | 8.1212176 | 3.23665865 | 9.35E-06 | 1.16E-05 |
| MCM7 | 4.62004356 | 20.7669219 | 2.16830903 | 1.39E-26 | 4.72E-25 |
| CTNNA2 | 0.01464992 | 1.11869968 | 6.25478585 | 1.87E-06 | 2.38E-06 |