

Article

HMGC2 Mediates Ketone Production and Regulates the Proliferation and Metastasis of Hepatocellular Carcinoma

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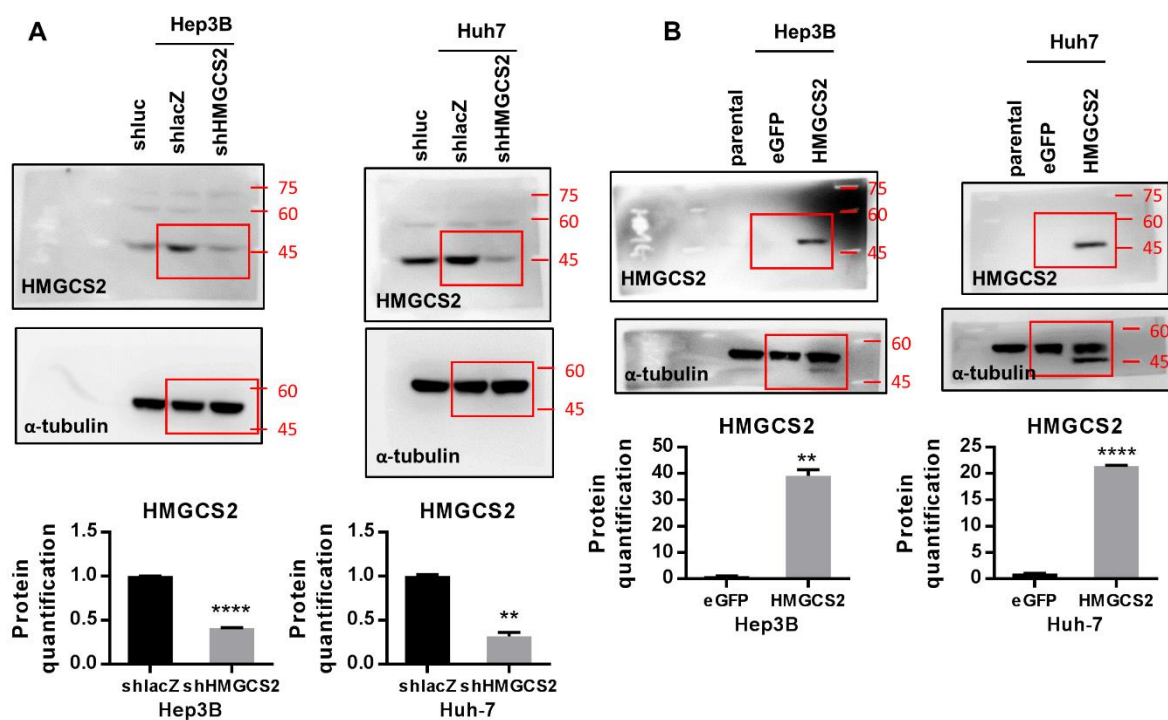


Figure S1. Original unedited pictures and protein quantification of Figure 2. Complete western blot image corresponding to Figure 2 showing all bands and molecular weight markers for HMGC2 and α -tubulin. The quantification of the figure was presented by using ImageJ system. ** $p < 0.01$; **** $p < 0.0001$ vs. control group.

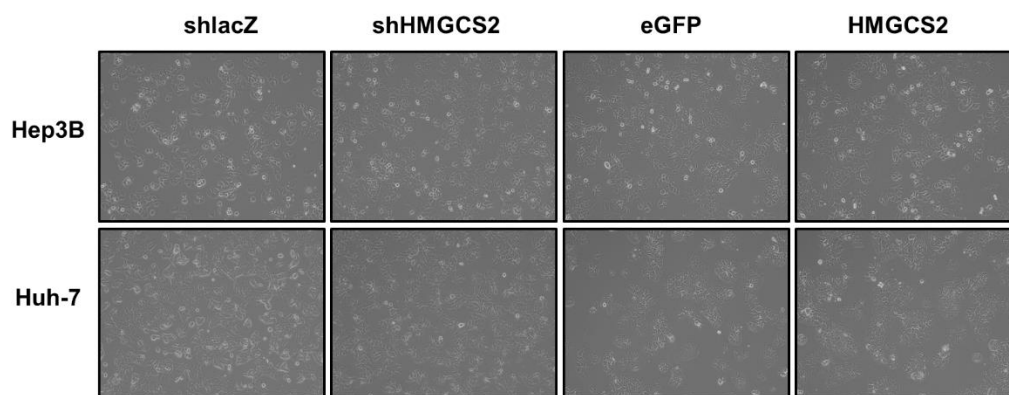


Figure S2. Investigation of cell morphology by light microscopy. Optical microscopy images in different HMGC2 gene modified Hep3B and Huh-7 cells.

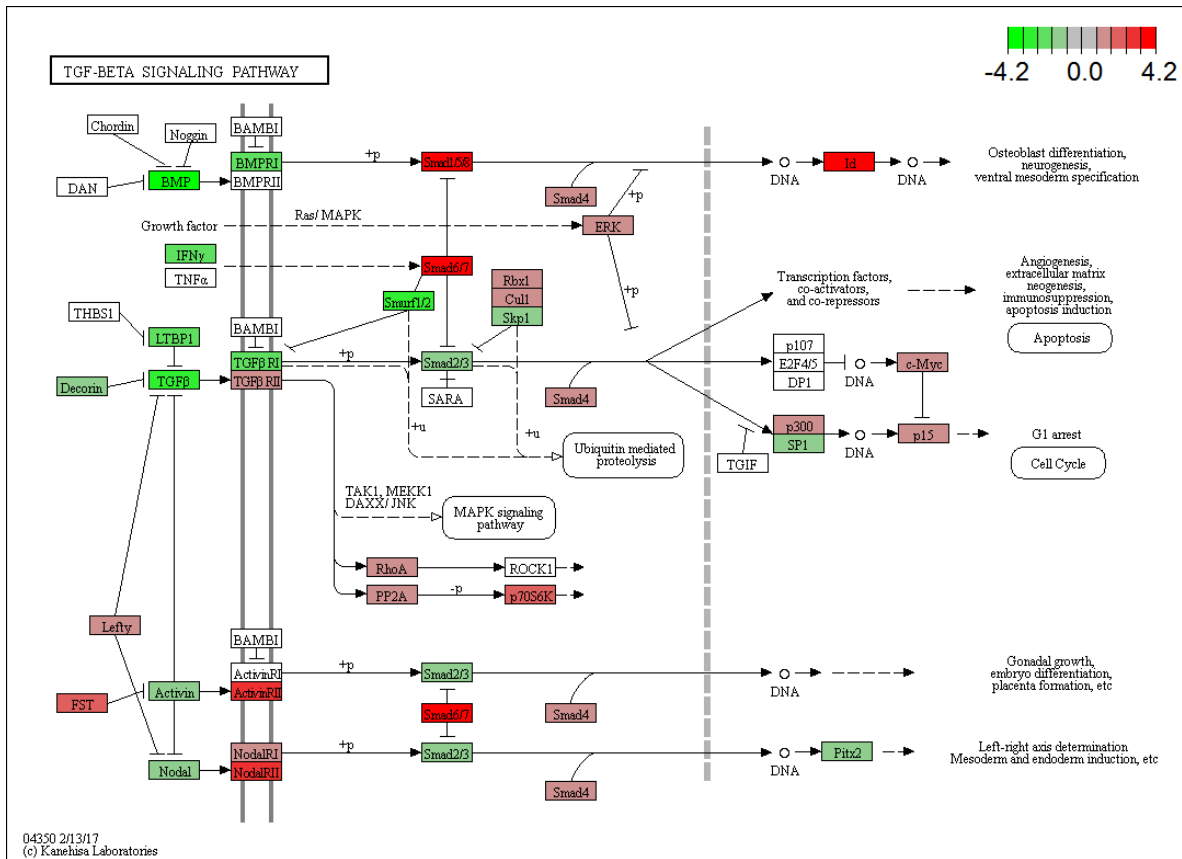


Figure S3. KEGG enrichment pathway: TGF- β signaling pathway. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGC52 cells.

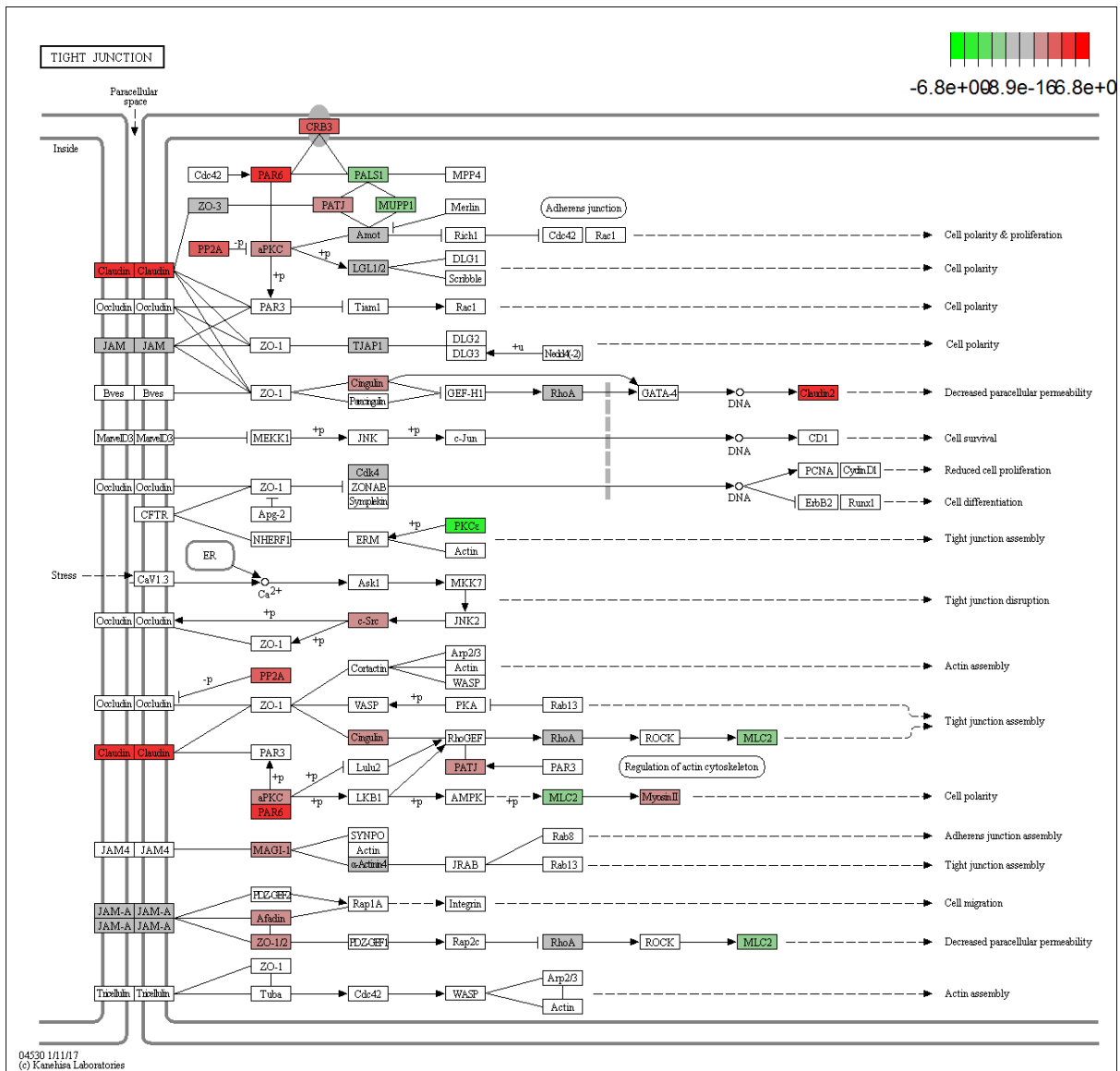


Figure S4. KEGG enrichment pathway: tight junction pathway. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGCS2 cells.

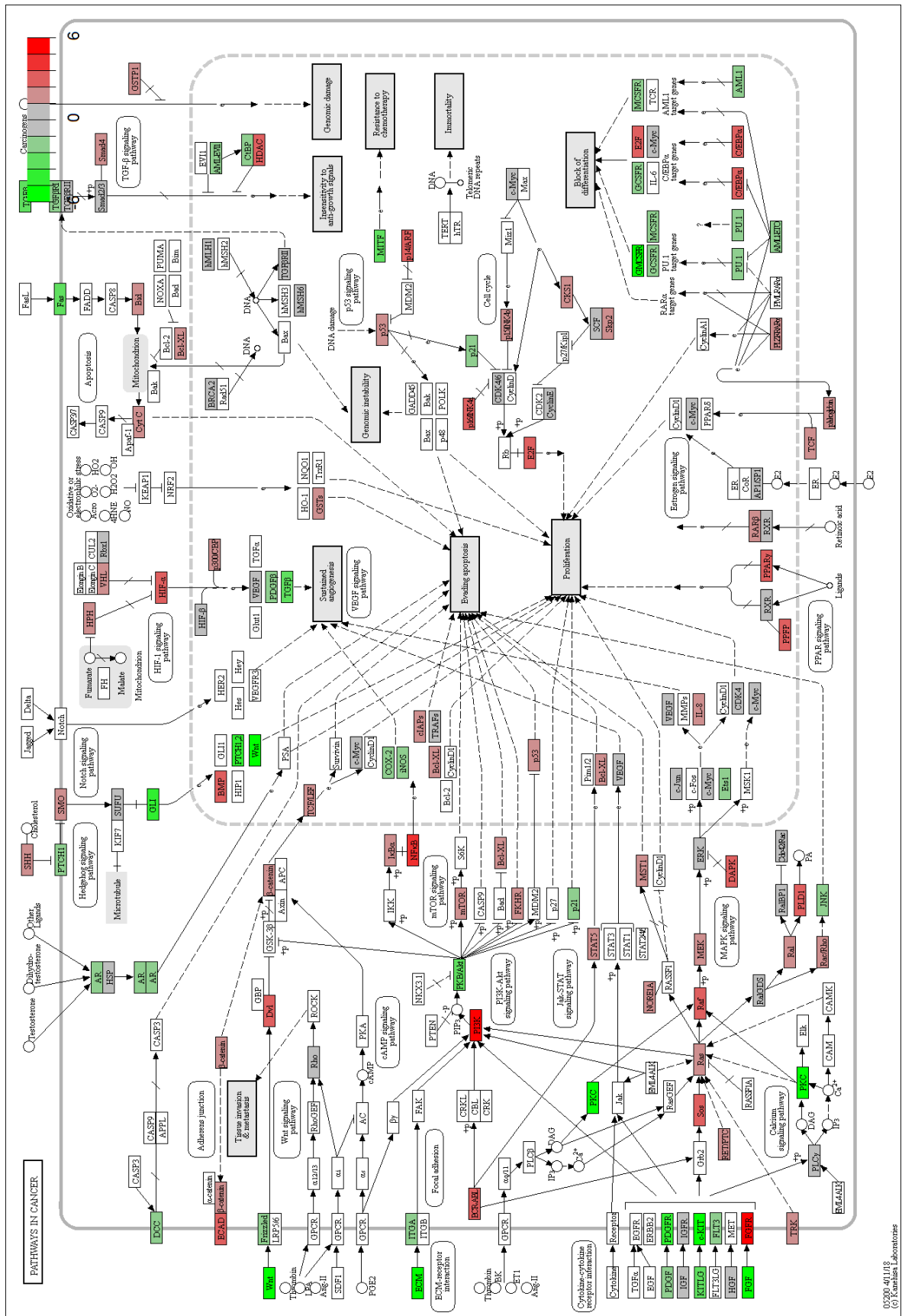


Figure S5. KEGG enrichment pathway: pathways in cancer. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGS2 cells.

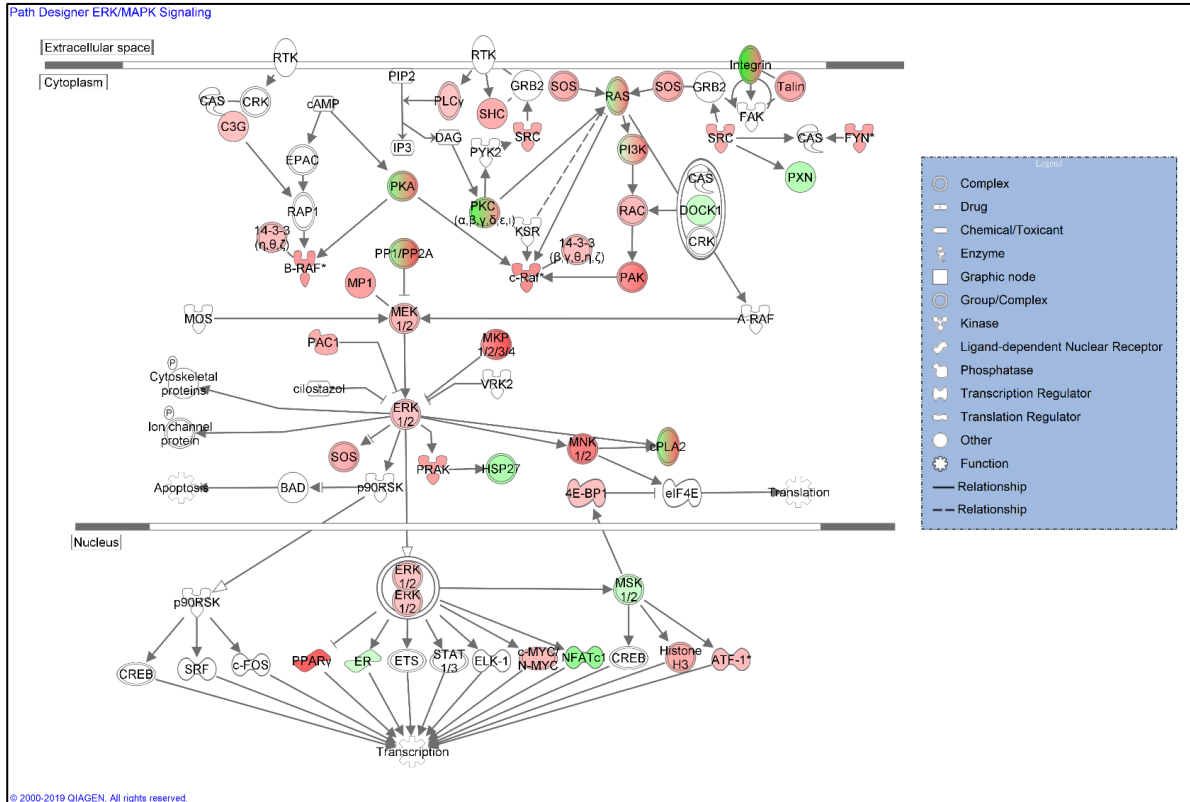


Figure S6. IPA enrichment pathway: ERK/MAPK signaling. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGCS2 cells.

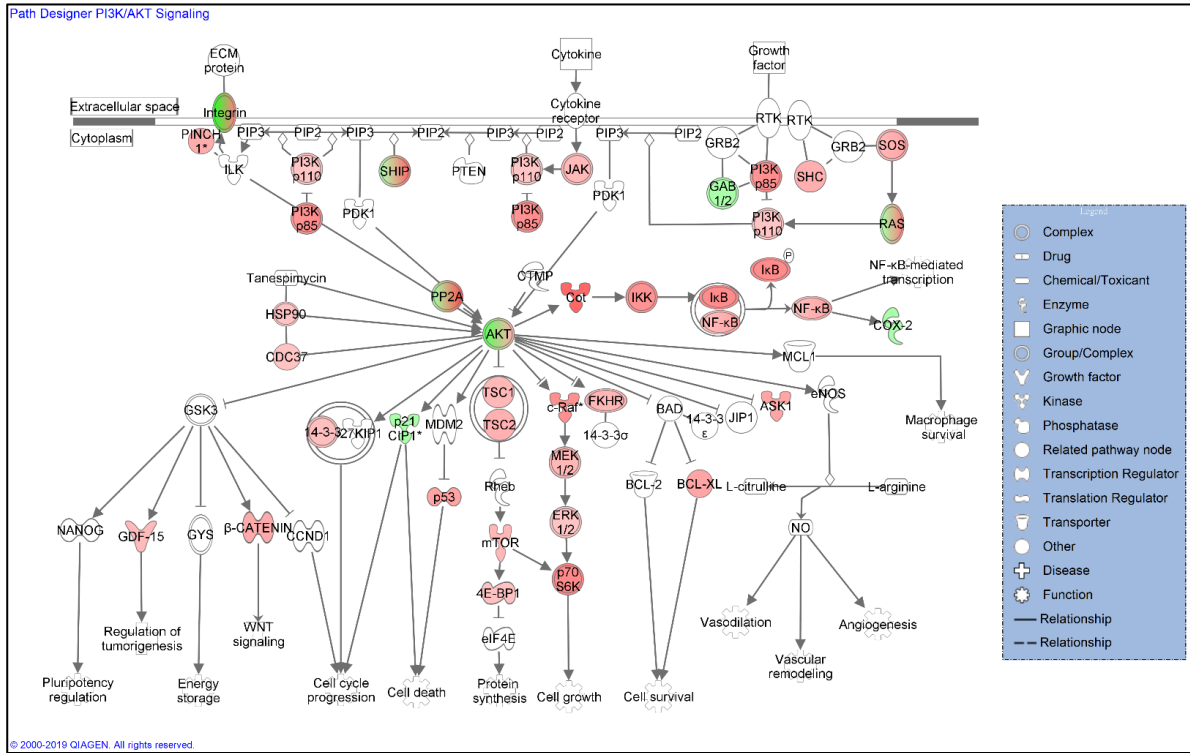


Figure S7. IPA enrichment pathway: PI3K/AKT signaling. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGCS2 cells.

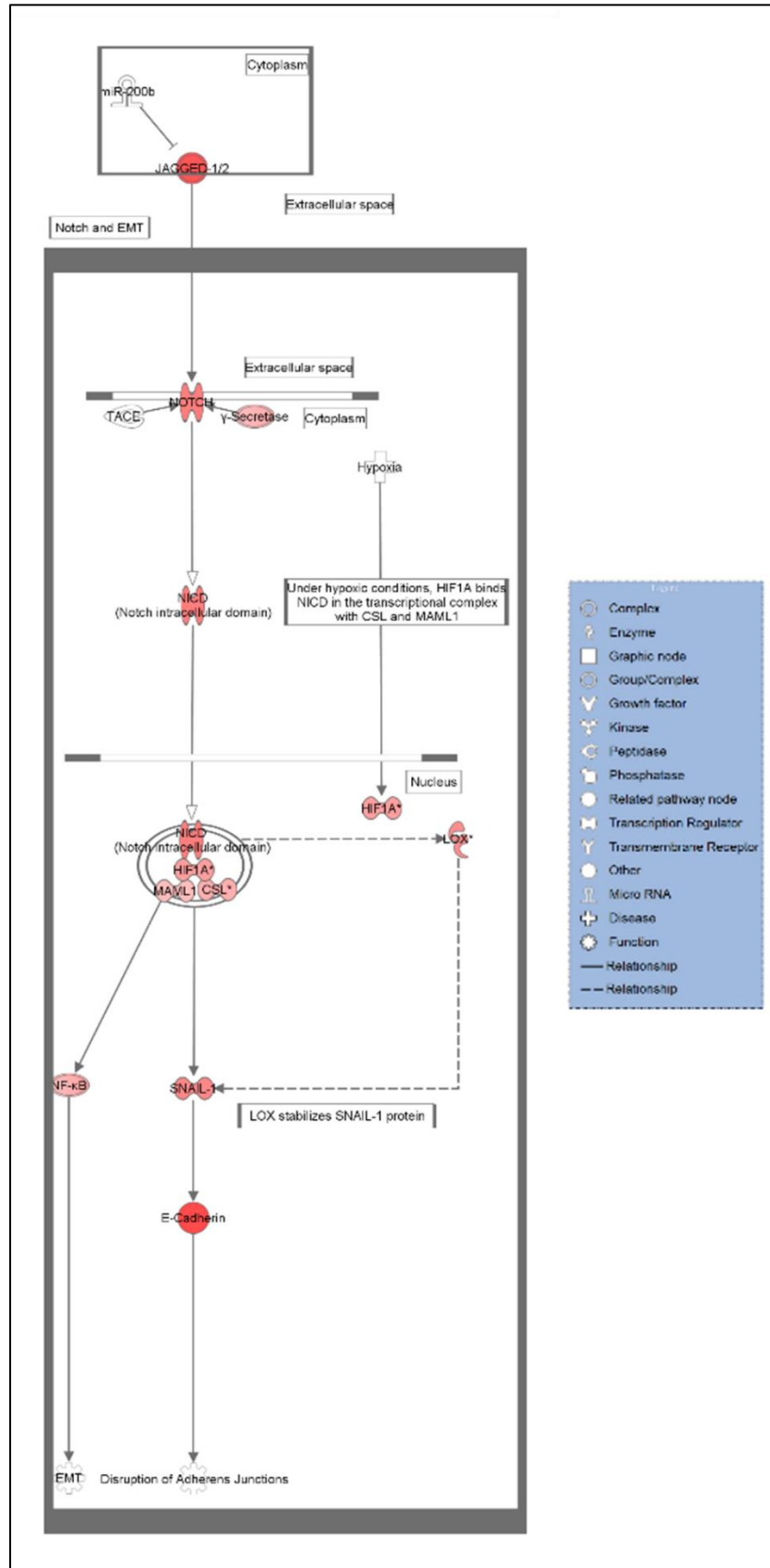


Figure S8. IPA enrichment pathway: EMT pathway. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGS2 cells.

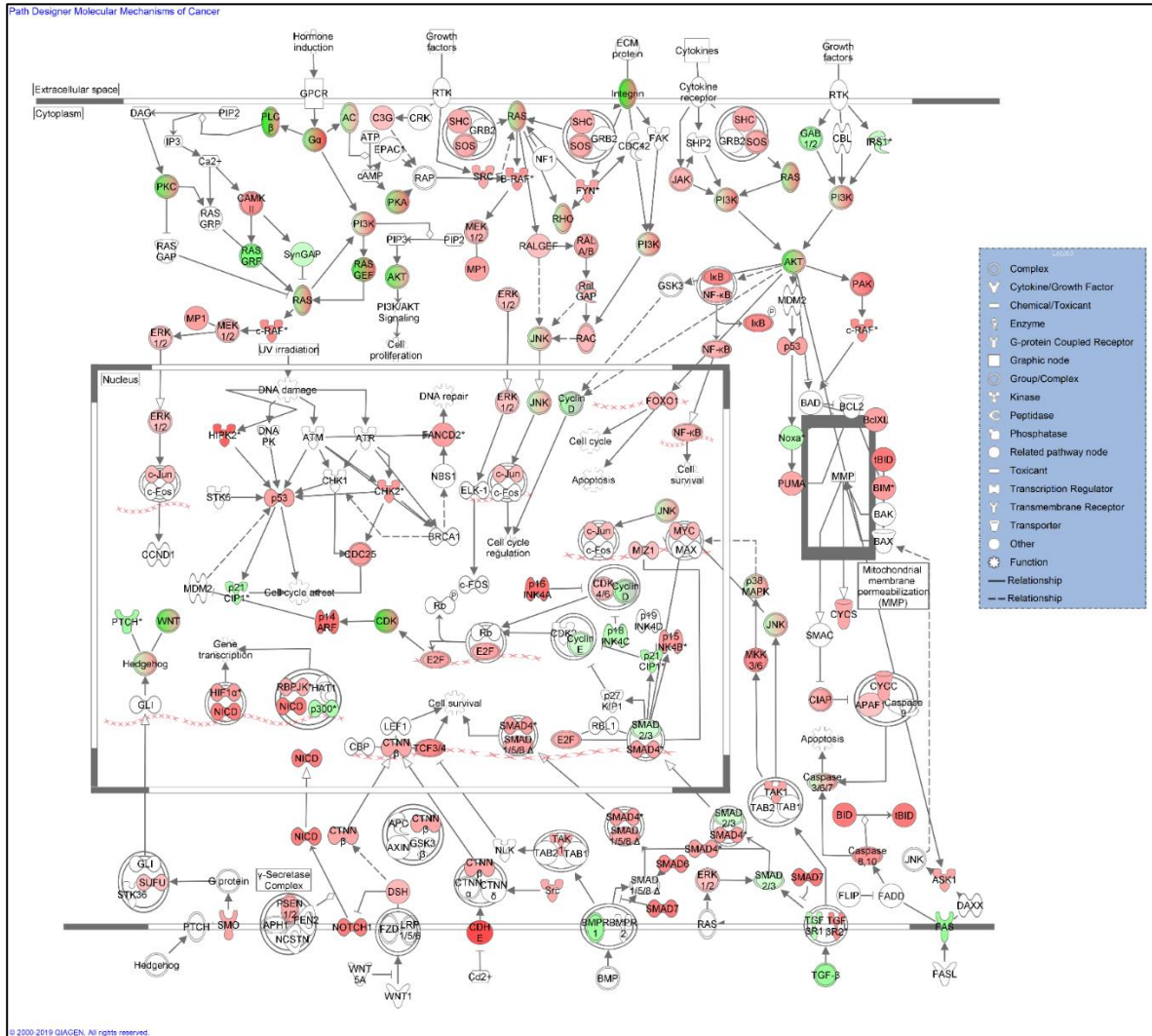


Figure S9. IPA enrichment pathway: molecular mechanism of cancer. The down-regulation (green color shaded genes) and up-regulation (red color shaded genes) of most genes in this pathway in Huh-7 shlacZ vs. Huh-7 shHMGCS2 cells.

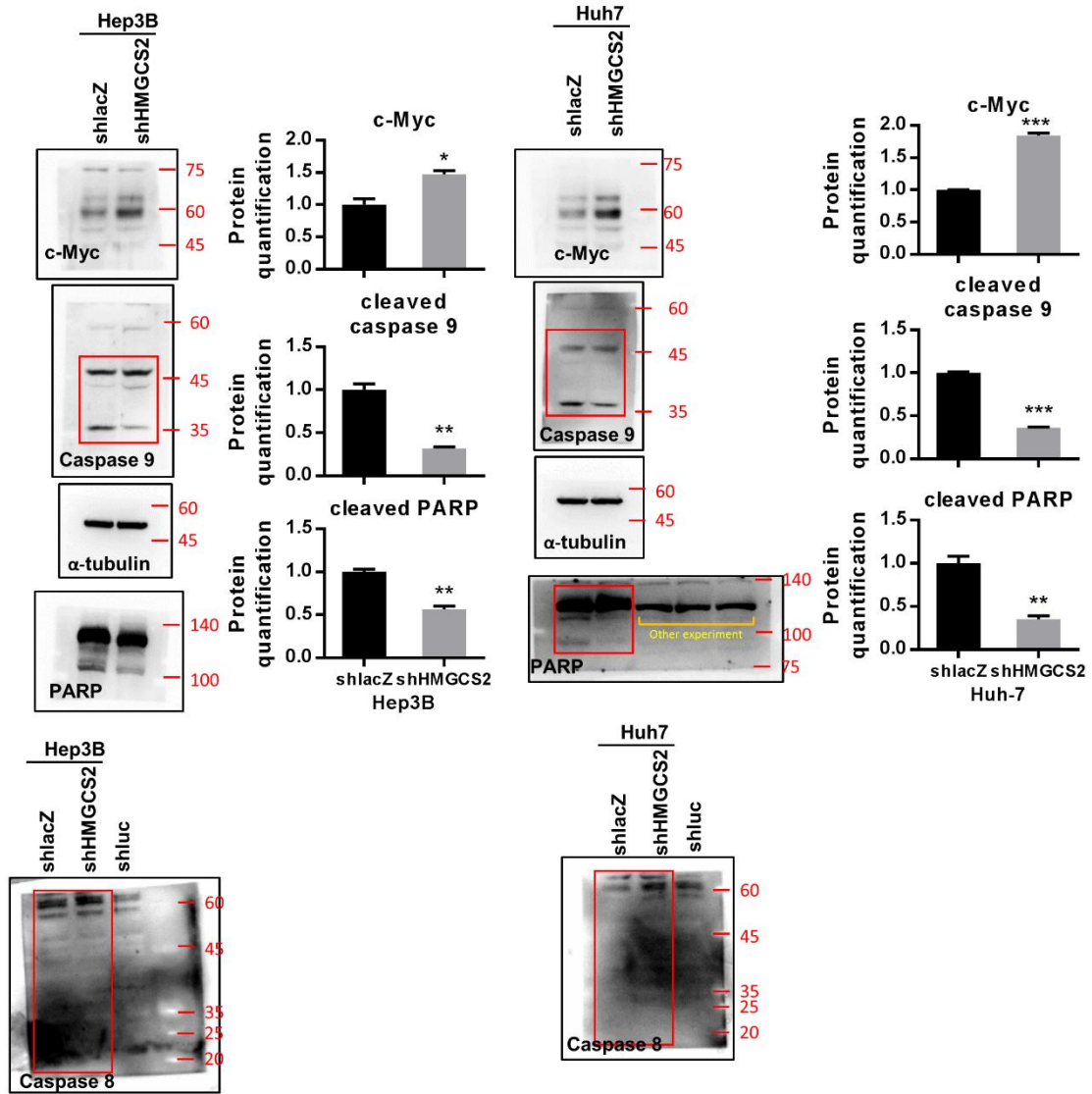
B

Figure S10. Original unedited pictures and protein quantification of Figure 3B. Complete western blot image corresponding to Figure 3B showing all bands and molecular weight markers for c-Myc, caspase9, caspase8, PARP, and α -tubulin. The quantification of the figure was presented by using ImageJ system. * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$ vs. control group.

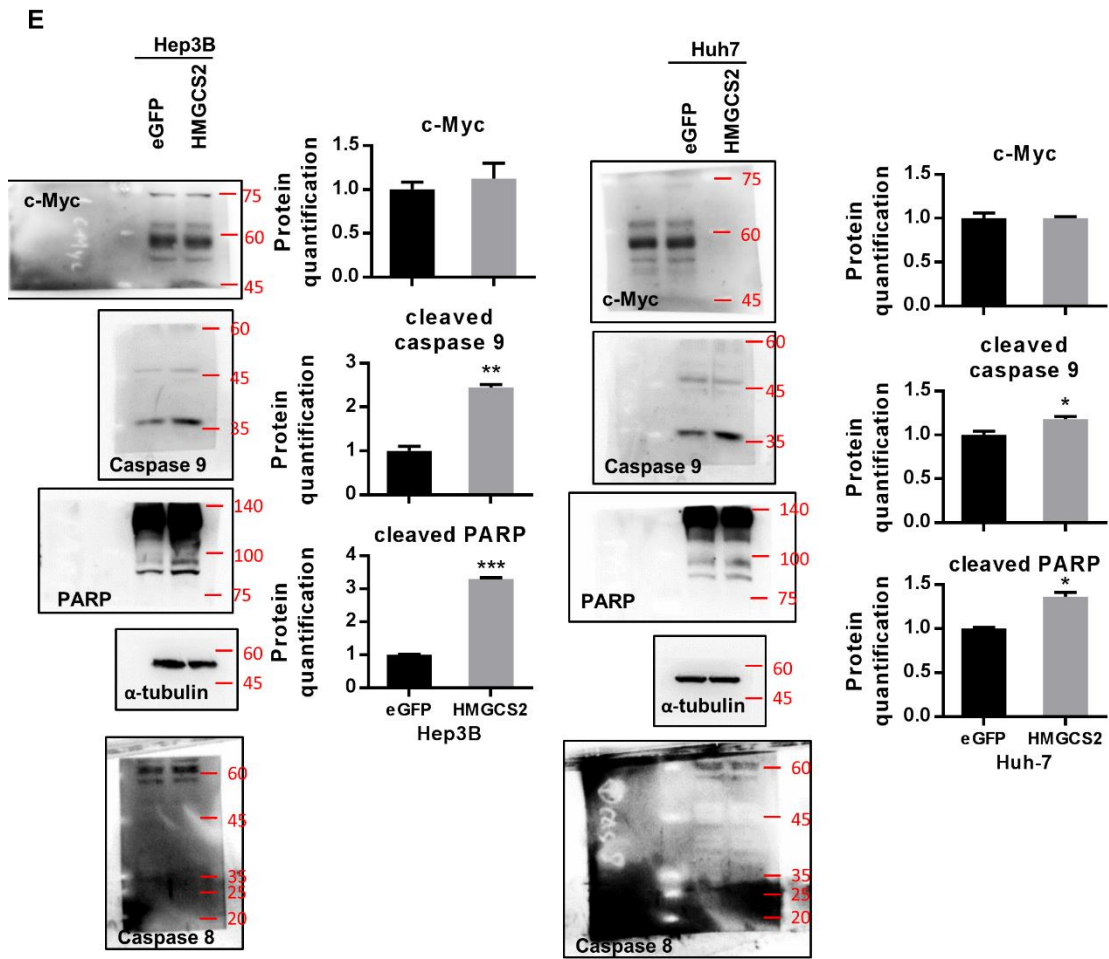


Figure S11. Original unedited pictures and protein quantification of Figure 3E. Complete western blot image corresponding to Figure 3E showing all bands and molecular weight markers for c-Myc, caspase9, caspase8, PARP, and α -tubulin. The quantification of the figure was presented by using ImageJ system. * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$ vs. control group.

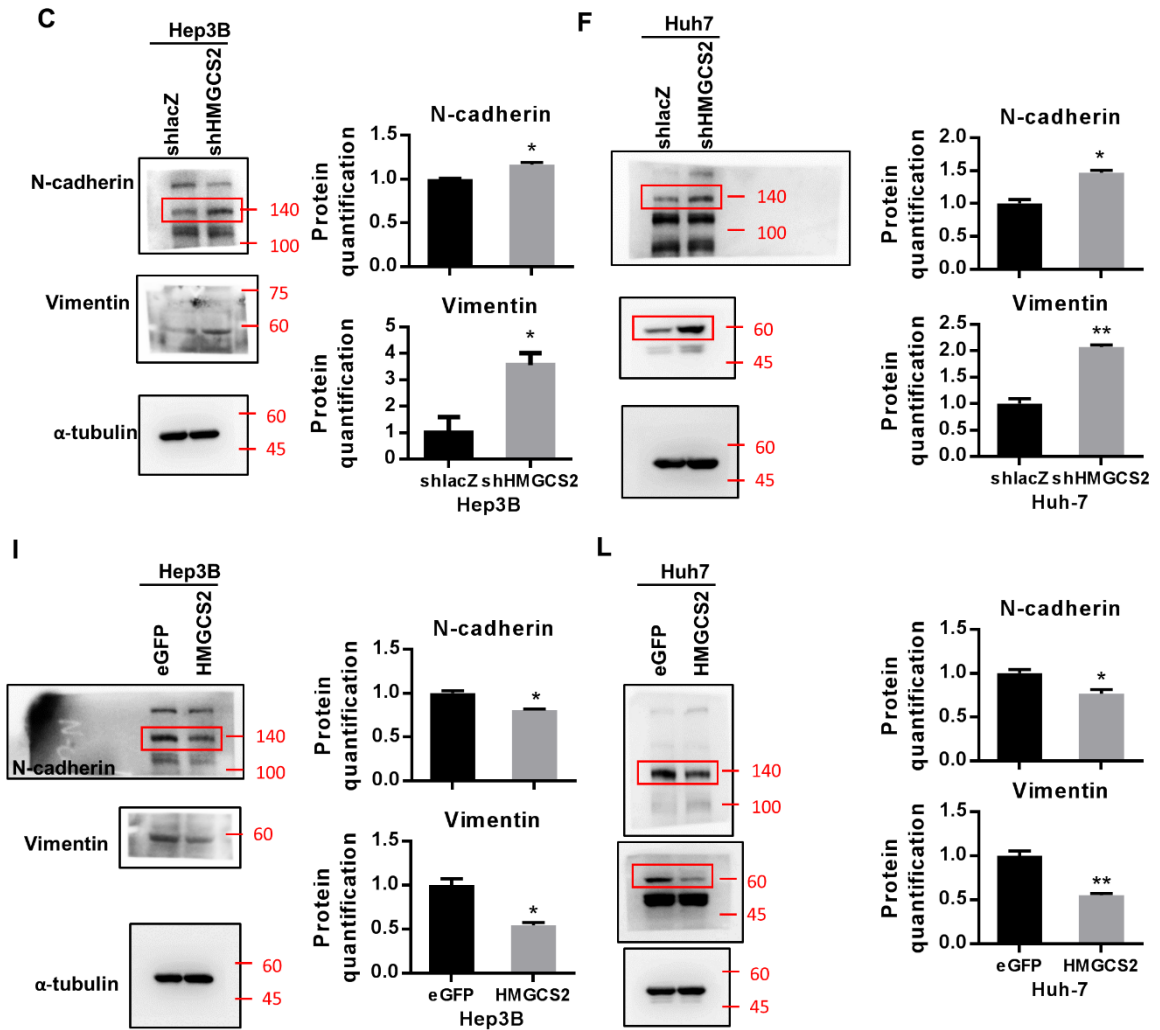


Figure S12. Original unedited pictures and protein quantification of Figure 4. Complete western blot image corresponding to Figure 4 showing all bands and molecular weight markers for N-cadherin, Vimentin, and α -tubulin. The quantification of the figure was presented by using ImageJ system. * $p < 0.05$; ** $p < 0.01$ vs. control group.

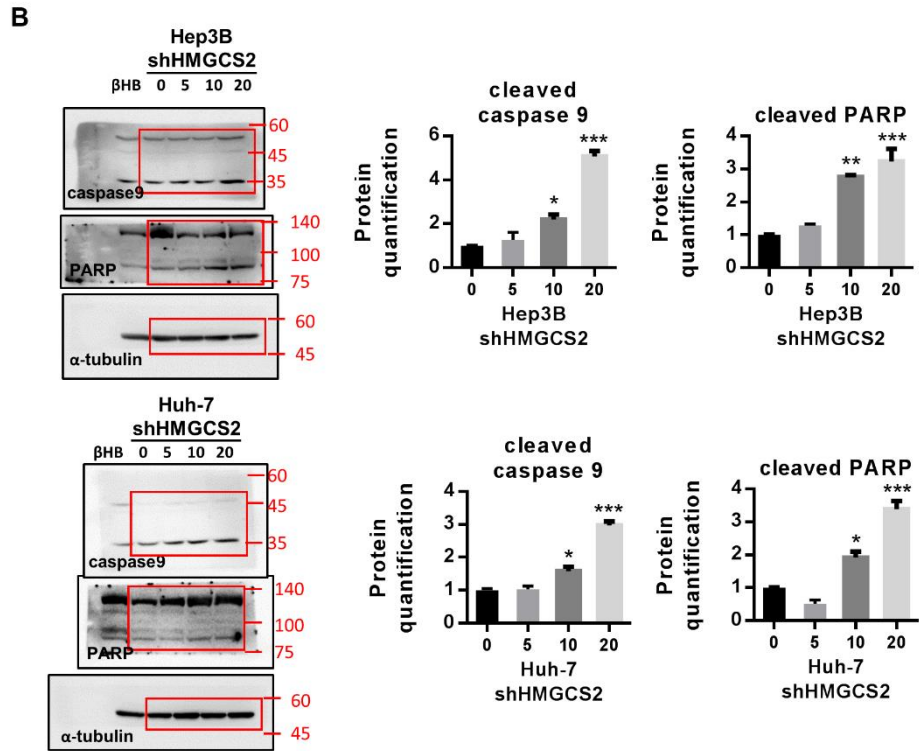


Figure S13. Original unedited pictures and protein quantification of Figure 5. Complete western blot image corresponding to Figure 5 showing all bands and molecular weight markers for caspase9, PARP, and α -tubulin. The quantification of the figure was presented by using ImageJ system.



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