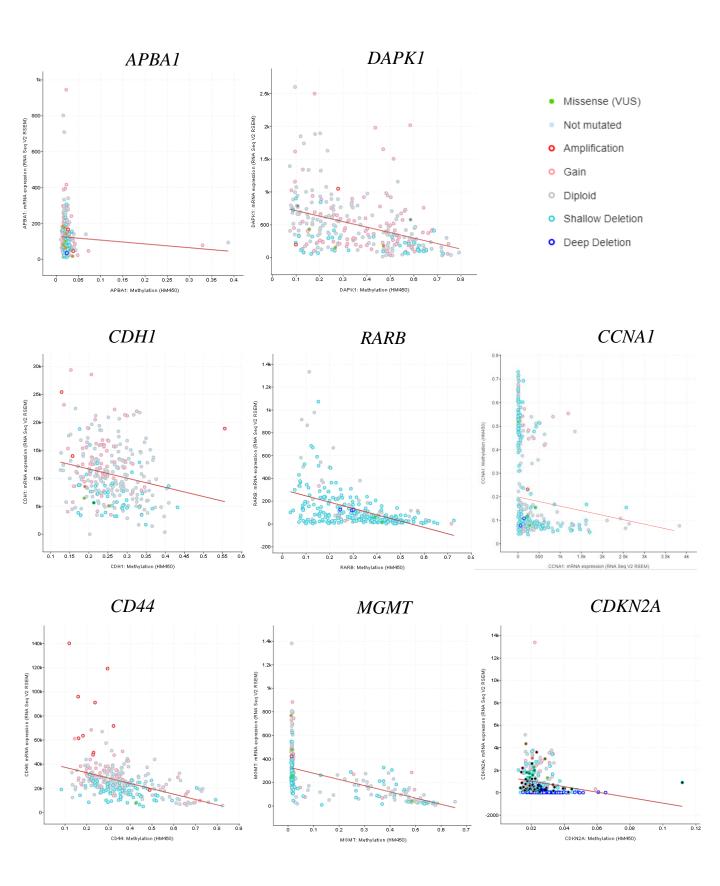
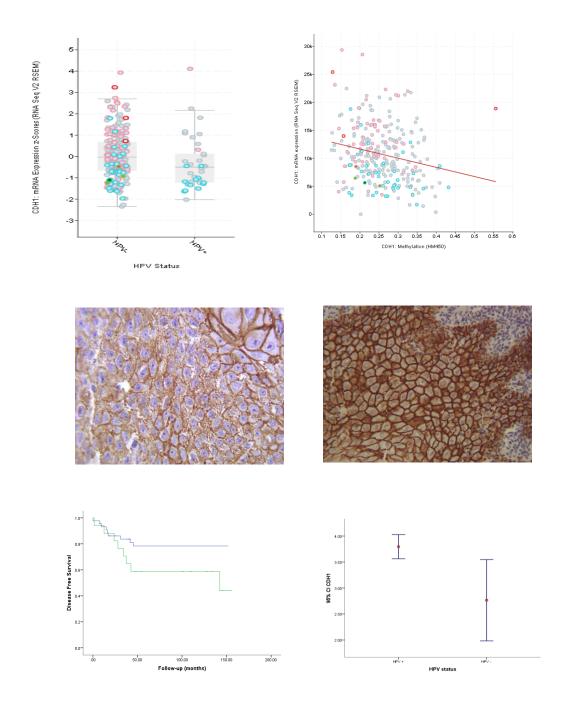
Supplementary Figure 1



Supplementary Figure 1: The correlation between DNA hypermethylation and RNAseq data using an independent large cohort of 279 HNC patients with high-throughput information from Cancer Genome Atlas confirms that DNA hypermethylation often leads to gene downregulation.

Supplementary Figure 2

CDH1



Supplementary Figure 2: -(A) Transcription profile reveals CDH1 is highly expressed in HPV-HNC. (B) Correlation between gene expression and epigenetic alteration. (C) Validation of the protein expression in an independent cohort of 100 HNC with long-term follow-up. Representative immunohistochemical staining for CDH1 in head and neck cancer. The cytoplasmic membrane immunoreactivity for CDH1 was clearly identified. Original magnification: 400x. (D) CD44 protein was differentially expressed HPV+ and HPV- HNC patients. Confidence intervals (CI: 95%) show relative percentage and IHC intensity value. Yaxis represents numerical values corresponding to the percentage and intensity of expression. (E) Survival curves analysis according to the Kaplan-Meier method showing that patients with positive expression of CD44 survival comparison had shorter rate in with immunostaining (log-rank test, P<0.01).