**Supplementary Information**

**Upregulation of *HOX* genes promotes cell migration and proliferation in head and neck squamous cell carcinoma**

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**Supplementary Figure 1**



**Supplementary figure 1.** Knockdown of *HOXC13* reduces the positive G1/S transition regulators, *Cyclin D1*. Relative expression of *Cyclin D1*, after transfection with esiEGFG (control), esiHOXC10 or esiHOXC13.The mRNA level was detected by RT-qPCR, in FaDu (left) and UMSCC-1 (right). Kruskal-Wallis followed by Dunn's post hoc test was used for statistical analysis. Each experiment was performed three times and each time in triplicate. *ns*: not significant and \*p<0,05.

**Supplementary Figure 2**

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**Supplementary figure 2**. Gene Ontology (GO) enriched. Representative graphs of the biological process enriched of the target genes of each *HOX* gene. The number of genes involved in each biological process is presented. FDR ≤ 0.05.

**Supplementary Figure 3**

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**Supplementary figure 3.** *HOXC9* target genes with negative correlation enriched eight hallmarks by the Molecular Signatures Database. The number of genes involved in each hallmark is presented. FDR ≤ 0.05.

**Supplementary Figure 4**

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**Supplementary figure 4.** Full-length E-cadherin and Vimentin blot. E-cadherin and Vimentin proteins levels in UMSCC-1 cell line were analyzed by western blotting using antibodies against the indicated proteins.