

**Supplementary Table S1:**

Genomic mutations in the cell lines used in this work, according to the Sanger COSMIC database.

ATCC catalog	Name	Tissue	Histology	Tumor source	Mutant Gene	Mutation
CRL-1628	SCC25	tongue	carcinoma	primary	CDKN2A TP53	c.1_471del471 c.625_626delAG
CRL-1629	SCC9	tongue	carcinoma	primary	CDKN2A TP53	c.1_150del150 c.822_853del32
HTB-43	FaDu	hypopharynx	carcinoma	primary	CDKN2A SMAD4 TP53 TP53	c.151-1G>T c.1_1659del1659 c.376-1G>A c.743G>T
CCL-138	Detroit 562	pharynx	carcinoma	metastasis	CDKN2A PIK3CA TP53	c.1_457del457 c.3140A>G c.524G>A

Source: HEAD AND NECK CANCER PANEL, ATCC

(<https://www.atcc.org/~media/5A82DE2BD22A41B2B1D907CBC84A0C3A.ashx>)