

Figure S1. Body weights of mice. (A) Body weight of mice in the xenograft model using subcutaneous injections. (B) Body weight of mice in the xenograft model using submucosal injection in the tongue. HNF1A-AS1, hepatic nuclear factor 1  $\alpha$  antisense RNA 1; NC, negative control; shRNA, short hairpin RNA.

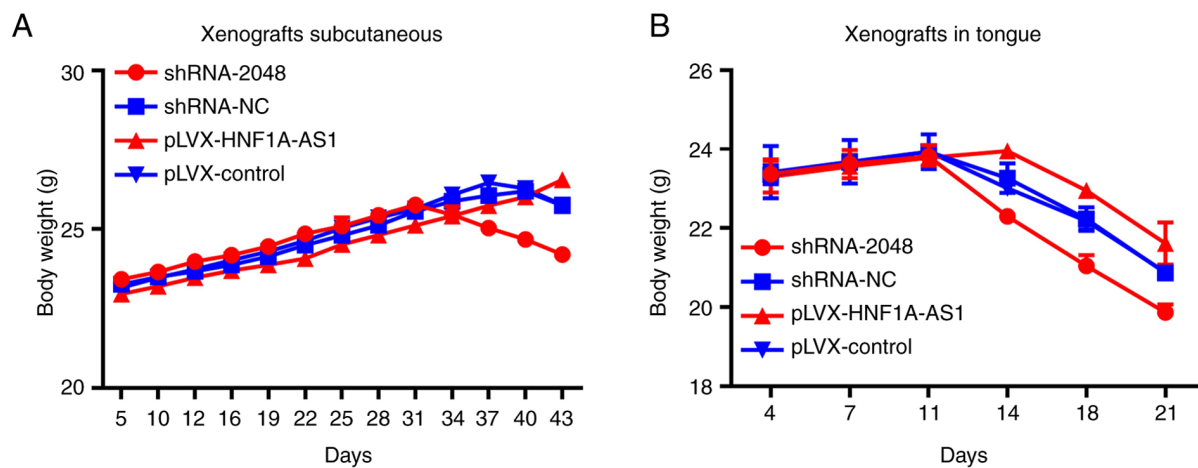


Figure S2. Downregulation and overexpression of HNF1A-AS1 in human laryngeal squamous cell carcinoma cell lines. (A) Reverse transcription-quantitative PCR analysis of HNF1A-AS1 expression in tumor cell lines (AMC-HN-8, TU-686 and TU-177). (B) Expression levels of HNF1A-AS1 in TU-686 cells were significantly decreased following transfection with shRNA-1525 and shRNA-2048 compared with those in the blank and shRNA-NC groups. (C) Expression levels of HNF1A-AS1 in TU-177 cells were significantly increased following transfection with pLVX-HNF1A-AS1 compared with those in the blank and pLVX-control groups. For statistical analysis, one-way ANOVA with Tukey's post hoc test was used. \*\* $P < 0.01$ , \*\*\* $P < 0.001$ , \*\*\*\* $P < 0.0001$ . Each experiment was performed in triplicate. HNF1A-AS1, hepatic nuclear factor 1  $\alpha$  antisense RNA 1; NC, negative control; shRNA, short hairpin RNA.

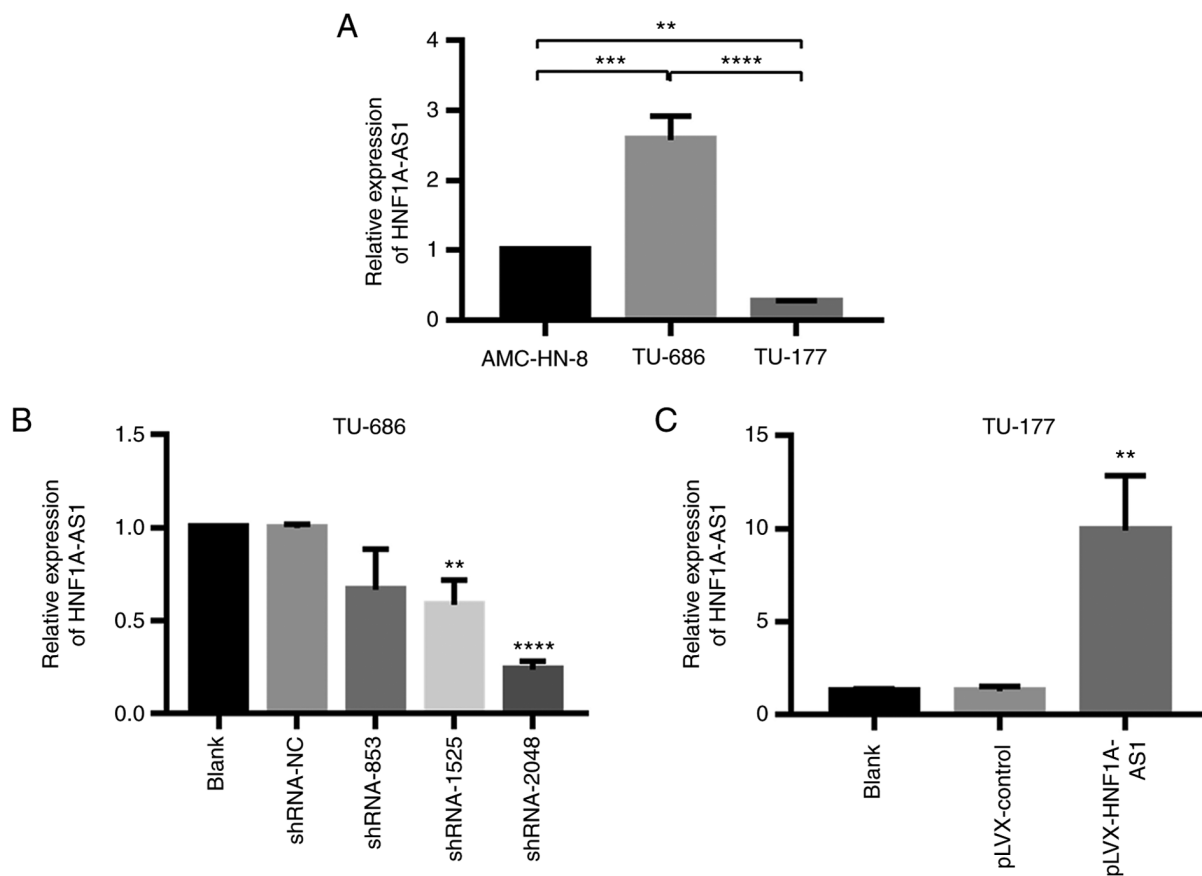


Table SI. List of primers and probes used.

Target	Primer and probe sequences (5'-3')
Full-length cDNA of HNF1A-AS1	
Forward	CCGGAATTCAGTAAGTGCAGTAGGTAGGC
Reverse	ATAAGAATGCGGCCGCGAGACGGAGTTTCGTTCTTG
HNF1A-AS1 short hairpin RNA	
1525A	GATCCGATCACTGTTACGTGATTATTCAAGAGATAATCACGTAACAG TGATCTTTTTTCTCGAGG
1525B	AATTCCTCGAGAAAAAAGATCACTGTTACGTGATTATCTCTTGAATA ATCACGTAACAGTGATCG
2048A	GATCCGGTATCACCTGCATATTATTTCAAGAGAATAATATGCAGGTGA TACCTTTTTTCTCGAGG
2048B	AATTCCTCGAGAAAAAAGGTATCACCTGCATATTATCTCTTGAAT ATGCAGGTGATACCG
853A	GATCCGCCAGAATCTAAGCCTTGATTCAAGAGATCAAGGCTTAGATT CTGGCTTTTTTCTCGAGG
853B	AATTCCTCGAGAAAAAAGCCAGAATCTAAGCCTTGATCTCTTGAAT CAAGGCTTAGATTCTGGCG
NCA	GATCCTTCTCCGAACGTGTCACGTTTCAAGAGAACGTGACACGTTC GGAGAATTTTTTCTCGAGG
NCB	AATTCCTCGAGAAAAAATTCTCCGAACGTGTCACGTTCTCTTGAAA CGTGACA CGTTCGGAGAAG
HNF1A-AS1 ( <i>Homo sapiens</i> )	
Forward	AGAATCGCTTGAACCCAGGA
Reverse	AGAAGTGGGGTCGTCATGTT
MSP: Methylated HNF1A-AS1 CpG islands	
Forward	GGTTGAGGTAGGAGAATGGCGTGAA
Reverse	TCCCTAATCAACTCAAACCCCAACG
MSP: Unmethylated HNF1A-AS1 CpG islands	
Forward	AGGTTGAGGTAGGAGAATGGCGTGA
Reverse	CCCTAATCAACTCAAACCCCAACGT
BSP primer	
Forward	GTGAATTTAGGAGGTAGAGTTTGTAG
Reverse	GGAAAGATAGGGATTAGTTGAGT

BSP, bisulfite genomic sequencing; HNF1A-AS1, hepatic nuclear factor 1  $\alpha$  antisense RNA 1; MSP, methylation-specific polymerase chain reaction; NC, non-specific control.