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Supplemental Information

Long non-coding RNAs MACC1-AS1 and FOXD2-AS1 mediate NSD2-induced cisplatin resistance in esophageal squamous cell carcinoma

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Supplementary Table S1. PCR primers used in this study.

Gene	Primer sequence (5'-3')
Primers for quantitative PCR assay	
NSD1	Forward: CCAGGGACAAGGCAAAAGTTG Reverse: CAGTAACAGGGTAAAGCAGACA
NSD2	Forward: CCATCCTAGTGAGAAGCTGG Reverse: CCCCAAATGTTGATAAGAACC
NSD3	Forward: GTTGAAGGAAGAAGTGAACAT Reverse: GGCTGCTTCAGCCTTCCAGGA
MACC1-AS1	Forward: GAACCCTGCACTTGAACAACA Reverse: GACTGGCCGCTGGAGAGTTC
FOXD2-AS1	Forward: GCGAAGAGTACGTTGCTATCA Reverse: GCGTGCAATCGTTCCGCTGTG
DANCR	Forward: CTCCAGGAGTTCGTCTCTTAC Reverse: AGGATAGTTGGCTTAAGTCA
TGFA	Forward: CCTGGCTGTCCTTATCATCAC Reverse: GGCACCACTCACAGTGTTTTTC
PAK1	Forward: GGTTTCAAGTGTTTAGTAACTTTTC Reverse: TTAGCTGCAGCAATCAGTGG
MET	Forward: GAGGAAGACCTTCAGAAGGT Reverse: CAACTAGAGCCATGTTGATG

GAPDH Forward: ACCACAGTCCATGCCATCAC
Reverse: TCCACCACCCTGTTGCTGTA

Primers for ChIP assay

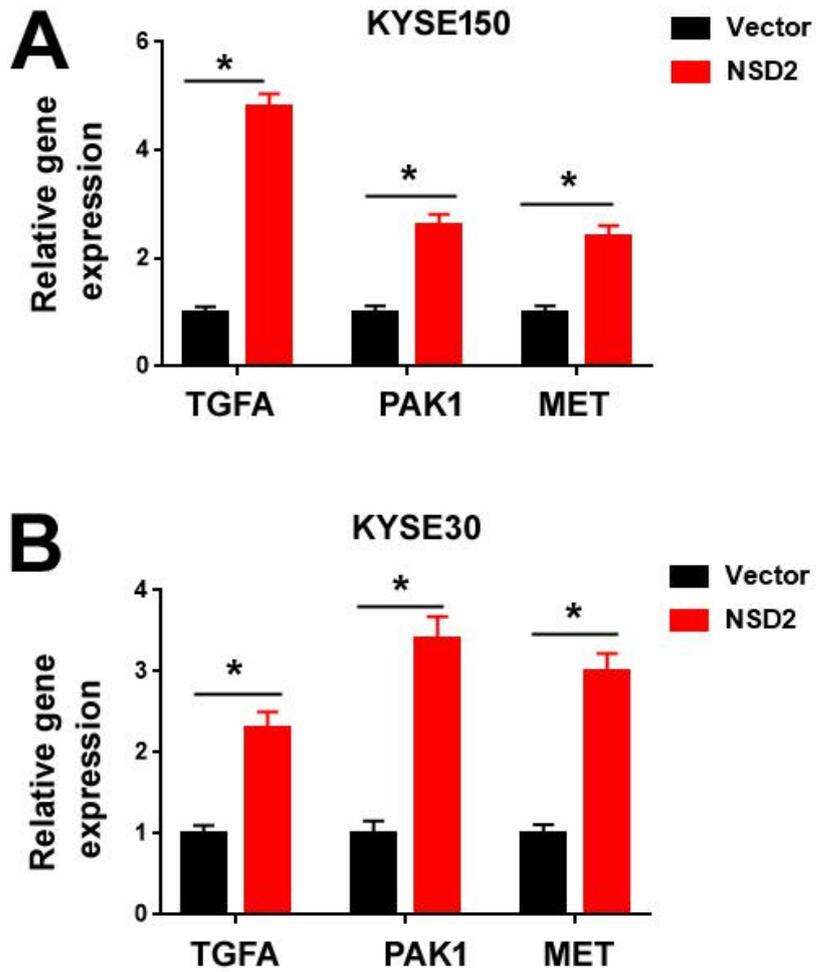
MACC1-ASI Forward: GTGTTTGCATGAGCATGCCAAC
promoter

Reverse: GTGAGACTTGCTACTCTTTTTCA

FOXD2-ASI Forward: GGAGTACAGAATCCCCAGCTTC
promoter

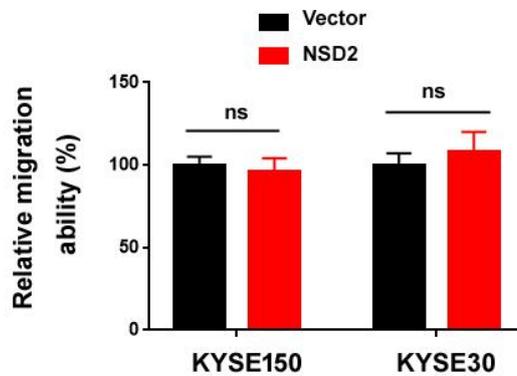
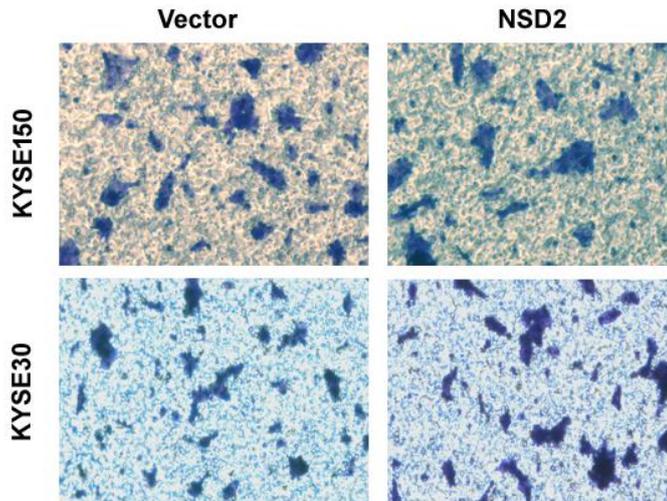
Reverse: CCTCTATACAGAGAGGAGCTC

DANCR promoter Forward: GGCTTCTCTTTAAGCTTACGGT
Reverse: GCGCGGAGCATCCTTCTCTGA



Supplementary Figure S1. Effect of NSD2 overexpression on target gene expression.

Analysis of TGFA, PAK1, and MET in (A) KYSE150 and (B) KYSE30 cells transfected with empty vector or NSD2-expressing plasmid. * $P < 0.05$.



Supplementary Figure S2. Effect of NSD2 overexpression on ESCC cell migration. KYSE150 and KYSE30 cells transfected with empty vector or NSD2-expressing plasmid were plated on the upper compartment of the Transwell chamber. The lower compartment was filled with serum-containing medium. After culturing for 24 h, the cells that migrated to the lower compartment were stained and counted. Upper: representative images of migrated cells. Bottom: bar graphs showing quantitative results from three independent experiments. ns indicates no significance.