Figure S1. Alignment of miR-200a sequence with target sites on the 3'-untranslated region of wild-type or mutant reporter genes. APC, adenomatous polyposis coli protein; CDH1, cadherin-1; CTNNA1, catenin α1; CTNNB1, catenin β1; miR, microRNA; MUT, mutant; PTEN, Phosphatase and tensin homolog; SOD2, superoxide dismutase; WT, wild-type.

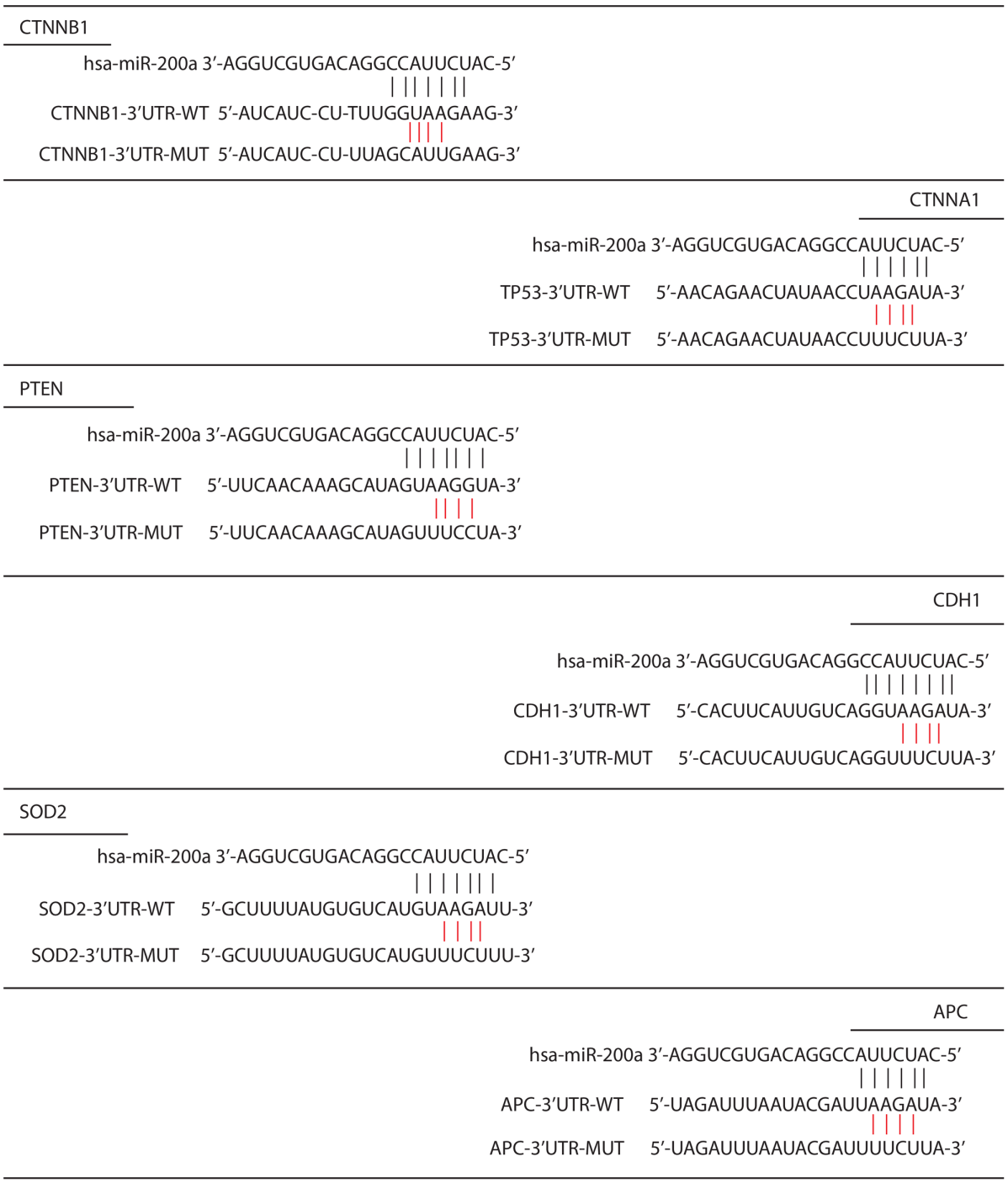

Figure S2. Protein expression of miR-200a target genes in normal esophageal tissue from the Human Protein Atlas. Representative immunohistochemistry images of miR-220a target genes (CTNNB1, CDH1, TP53, PTEN, CDK1, APC, CTNNA1, FYN and SOD2) demonstrating their expression in normal esophageal tissues. Scale bars, 100 μm. APC, adenomatous polyposis coli protein; CDH1, cadherin-1; CTNNA1, catenin α1; CTNNB1, catenin β1; FYN, tyrosine-protein kinase; miR, microRNA; SOD2, superoxide dismutase.

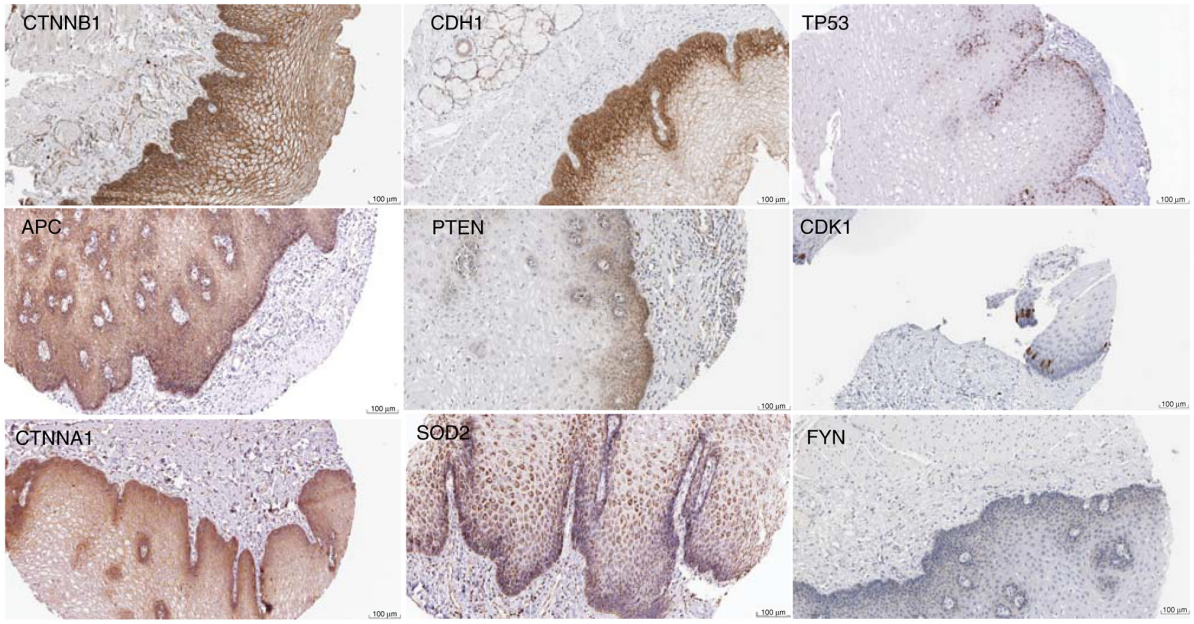

Table SI. Primers used for reverse transcription-quantitative PCR.

Gene	Primer sequence (5'→3')
microRNA-200a	F: TAACACTGTCTGGTAACGATGT
	R: ATCGTTACCAGACAGTGTTATT
CTNNB1	F: AACAAGCCACCAGCAGGAAT
	R: AGGTTATGCAAGGTCCCAGC
CDH1	F: CAGGCCTCCGTTTCTGGAAT
	R: GGTGTATACAGCCTCCCACG
PTEN	F: TGGATTCGACTTAGACTTGACCT
	R: GGTGGGTTATGGTCTTCAAAAGG
APC	F: AGACAGAATGGAGGTGCTGC
	R: CTTCGAGGTGCAGAGTGTGT
CTNNA1	F: GGACTGGAGGGAGACAAAGC
	R: ATGTTGCCTCGCTTCACAGA
SOD2	F: CCTGGAACCTCACATCAACG
	R: GCTATCTGGGCTGTAACATCTC
GAPDH	F: GCACCGTCAAGGCTGAGAAC
	R: GGATCTCGCTCCTGGAAGATG
U6	F: CTCGCTTCGGCAGCACATTTT
	R: AACGCTTCACGAATTTGCGT

F, forward; R, reverse; APC, adenomatous polyposis coli protein; CDH1, cadherin-1; CTNNA1, catenin α1; CTNNB1, catenin β1; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; PTEN, Phosphatase and tensin homolog; SOD2, superoxide dismutase.

Table SII. Primers used for target gene 3'-untranslated region amplification in dual-luciferase reporter assay.

Gene	Primer sequence (5'→3')
CTNNB1	F: CCTCCAGGTGACAGCAATC
	R: CATCTTGTGATCCATTCTTGTGC
CDH1	F: TTGGGATTACAGACATGAGCC
	R: AGAGTTTGAGGTTACAGTGAGC
PTEN	F: TTCACATCCTACCCCTTTGC
	R: CATTCCCTCCATTCCCCTAAC
APC	F: TGTCTTGCCCCTTCATCTTC
	R: GAGATCTTGCCCTAACATACAGG
CTNNA1	F: AGATGCCCATTCTCTTAGTGATG
	R: TTCCTAAGATGCCCAGGTTG
SOD2	F: TCTAGTCTTTTGCCCCAGTTAC
	R: CCAGAAGTATCACTGCAGAGG

F, forward; R, reverse; APC, adenomatous polyposis coli protein; CDH1, cadherin-1; CTNNA1, catenin α1; CTNNB1, catenin β1; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; PTEN, Phosphatase and tensin homolog; SOD2, superoxide dismutase.