

Figure S1. Volcano plot and transfection efficiencies of sh-MUC19 and MUC19 overexpression vector. (A) Volcano plot of differentially expressed long non-coding RNAs in breast cancer tissue and paired normal adjacent tissue from The Cancer Genome Atlas ($P<0.05$, \log_2 fold change >1). (B) Transfection efficiencies of sh-MUC19 and MUC19 overexpression vectors. *** $P<0.001$ vs. vector or sh-NC. MUC19, mucin 19; sh, short hairpin RNA.

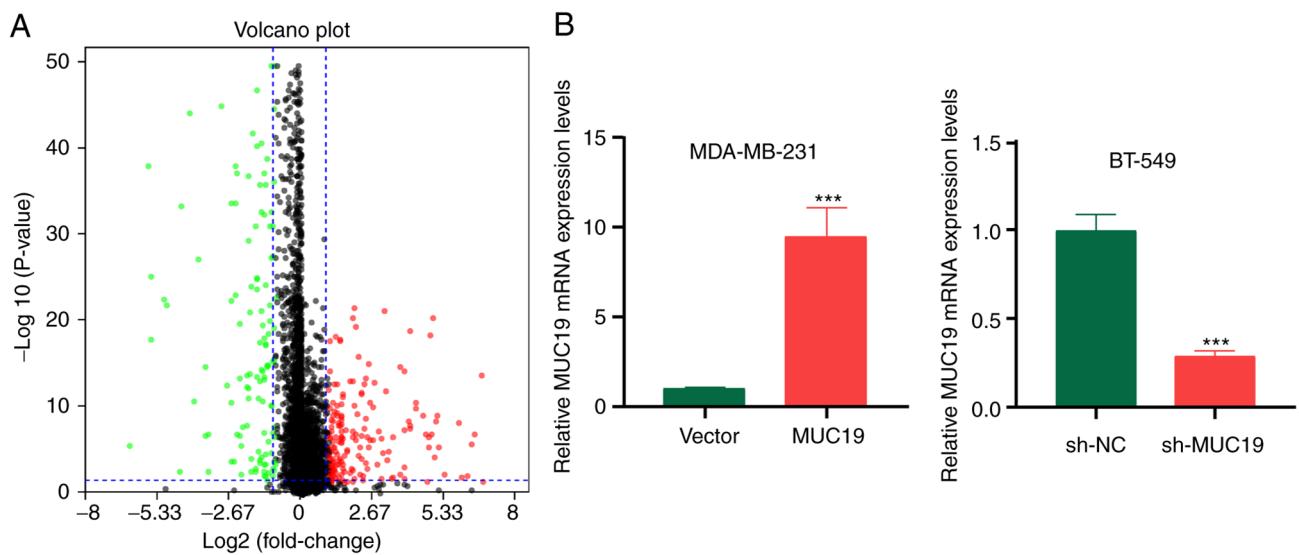


Table SI. Sequences of primers for reverse transcription-quantitative PCR and transfection-related sequences.

Name	Sequence
LOC102724163	
Forward	5'-CTCAGGAGGAGGATGCTGTC-3'
Reverse	5'-ATGCGAGGCAAAATATCCAC-3'
miR-508-5p	
Forward	5'-ACACTCCAGCTGGTACTCCAGAGGGCGTCA-3'
Reverse	5'-CTCAACTGGTGTGAGTCGGCAATTAGTTGAGCATGAGTG-3'
MUC19	
Forward	5'-TTACCACTGGGATAACTACTGGC-3'
Reverse	5'-GCCTCTGTAAGAGCAAATCAAGA-3'
GAPDH	
Forward	5'-GTTGTCTCCTGCGACTTCA-3'
Reverse	5'-GGTGGTCCAGGGTTCTTA-3'
U6	
Forward	5'-GCTTCGGCAGCACATATACTAAAAT-3'
Reverse	5'-CGCTTCACGAATTGCGTGTCA-3'
LOC102724163 shRNA	
Forward	5'-GATCCCCAGTTGTCCTGGAGATAATGCTTCCTGTCACATTATTCAGGAACAAACTGTTGGAAA-3'
Reverse	5'-AGCTTTCCAAAAACAGTTGTCCTGGAGATAATGTGACAGGAAGCATTATCTCCAGGAACAAACTGGGG-3'
MUC19 shRNA	
Forward	5'-GATCCCCCTGGAAGTTGCTGAAAGCAAATACTTCCTGTCATATTGCTTTCAGCAACTTCCAGTTGGAAA-3'
Reverse	5'-AGCTTTCCAAAAACTGGAAGTTGCTGAAAGCAAATATGACAGGAAGTATTGCTTCAGCAACTTCCAGGGG-3'
sh-NC	
Sense	5'-CCGGCAACAAGATGAAGAGCACCAA CTCGAGTTGGTGCTCTCATCTGTTGTTTG-3'
Anti-sense	5'-AATTCAAAAACAACAAGATGAAGAGCACCAA CTCGAGTTGGTGCTCTCATCTGTTG-3'
miR-508-5p mimics	
Sense	5'-UACUCCAGAGGGCGUCACUCAUG-3'
Antisense	5'-UGAGUGACGCCUCUGGAGUAUU-3'
miR-508-5p inhibitor	
Sense	5'-CAUGAGUGACGCCUCUGGAGUA-3'
miR-NC	
Sense	5'-UUCUCCGAACGUGUCACGUU-3'
Anti-sense	5'-ACGUGACACGUUCGGAGAATT-3'

miR, microRNA; NC, negative control; sh, small hairpin; MUC19, mucin 19.