

Figure S1. Transwell invasion assay was used to examine the effects of decreased expression of miR-425-5p on the invasive ability of MCF-7 and MDA-MB-231 cells. miR, microRNA.

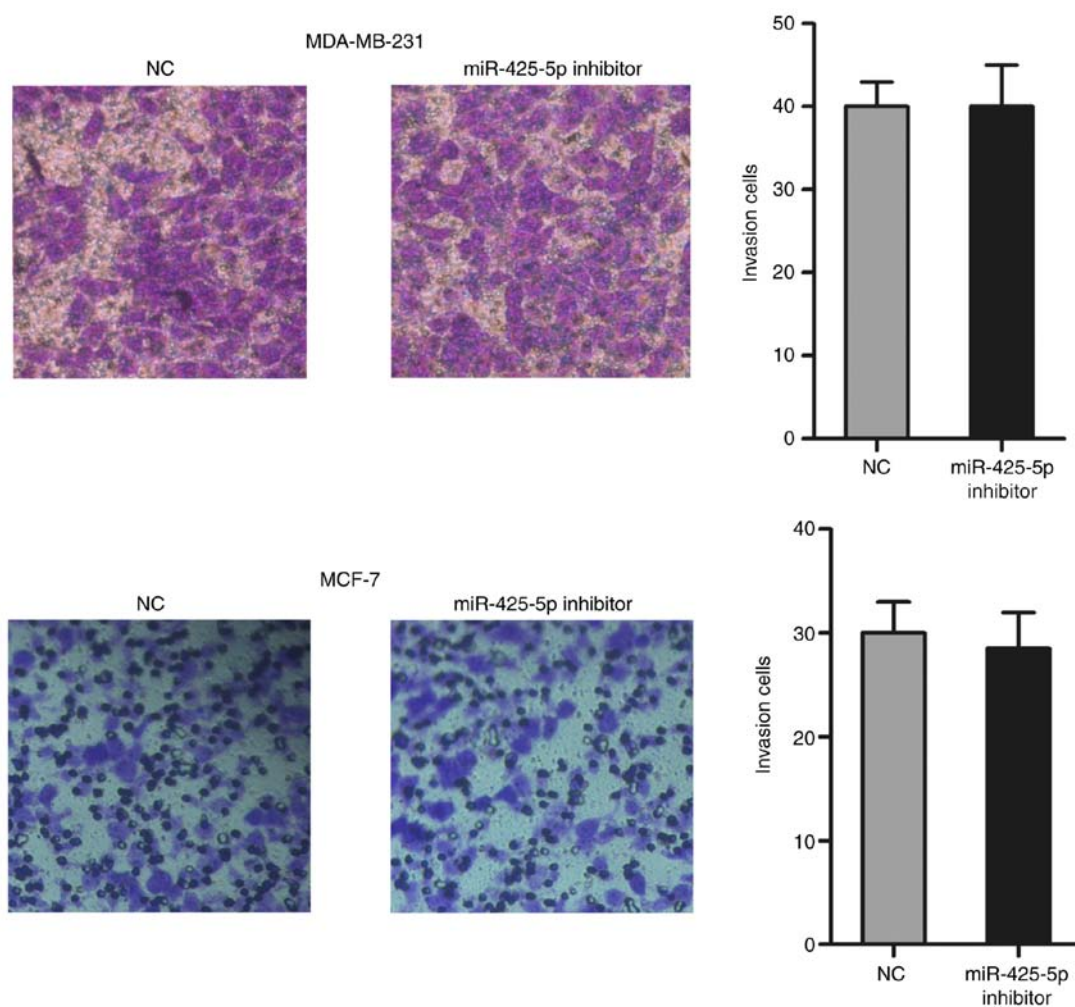


Figure S2. Venn diagram of miR-425-5p targets predicted by four prediction algorithms: TargetScan, MiRanda, Oncomir and miRWalk. miR, microRNA; PTEN, phosphatase and tensin homolog.



Figure S3. Expression of PTEN in MCF-7 and MDA-MB-231 cells transfected with pcDNA-PTEN. PTEN, phosphatase and tensin homolog; NC, negative control. **P<0.01.

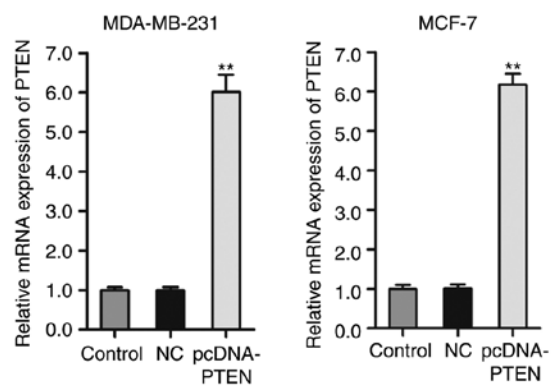


Table SI. Sequences of miRNA mimic, inhibitor and controls used for transfection of breast cancer cell lines.

miRNA	Sequence
Pre-miR-425-5p	5'-AAUGACACGAUCACUCCCGUUGA-3'
Mimic NC	5'-AUCUGCGAAGGUGUCUCGUTT-3'
miR-425-5p inhibitor	5'-AGGCGAAGGAUGACAAAGGGAA-3'
Inhibitor NC	5'-CAGUACUUUUGUGUAGUACAA-3'
miRNA/miR, microRNA; NC, negative control.	

Table SII. Primer sequences for qPCR of miR-425-5p, PTEN, U6 and GAPDH.

Gene	Primer sequence
miR-425-5p	Forward, 5'-TGCGGAATGACACGATCACTCCCG-3' Reverse, 5'-CCAGTGCAGGGTCCGAGGT-3'
PTEN	Forward, 5'-GAGCGTGCAGATAATGACAAGGAAT-3' Reverse, 5'-GGATTTGACGGCTCCTCTACTGTTT-3'
U6	Forward, 5'-CTCGCTTCGGCAGCACA-3' Reverse, 5'-AACGCTTCACGAATTTGCGT-3'
GAPDH	Forward, 5'-GCACCGTCAAGGCTGAGAAC-3' Reverse, 5'-TGGTGAAGACGCCAGTGGA-3'

miR, microRNA; PTEN, phosphatase and tensin homolog.