

Figure S1. miR-299-5p exerts no effect on cell proliferation and apoptosis. (A) MTT assay of MDA-MB-231 and MCF-7 cells following transfection with miR-299-5p mimics or miR-299-5p inhibitor compared with the negative control, respectively. * $P < 0.05$. (B) Cell apoptosis was detected by flow cytometry in MDA-MB-231 and MCF-7 cells transfected with miR-299-5p mimics or inhibitor. Apoptotic evaluation was carried out by calculating the percentage of apoptotic cells. Data are expressed as the mean \pm standard error of mean. MTT, Methylthiazolyldiphenyl-tetrazolium bromide; ctrl, control.

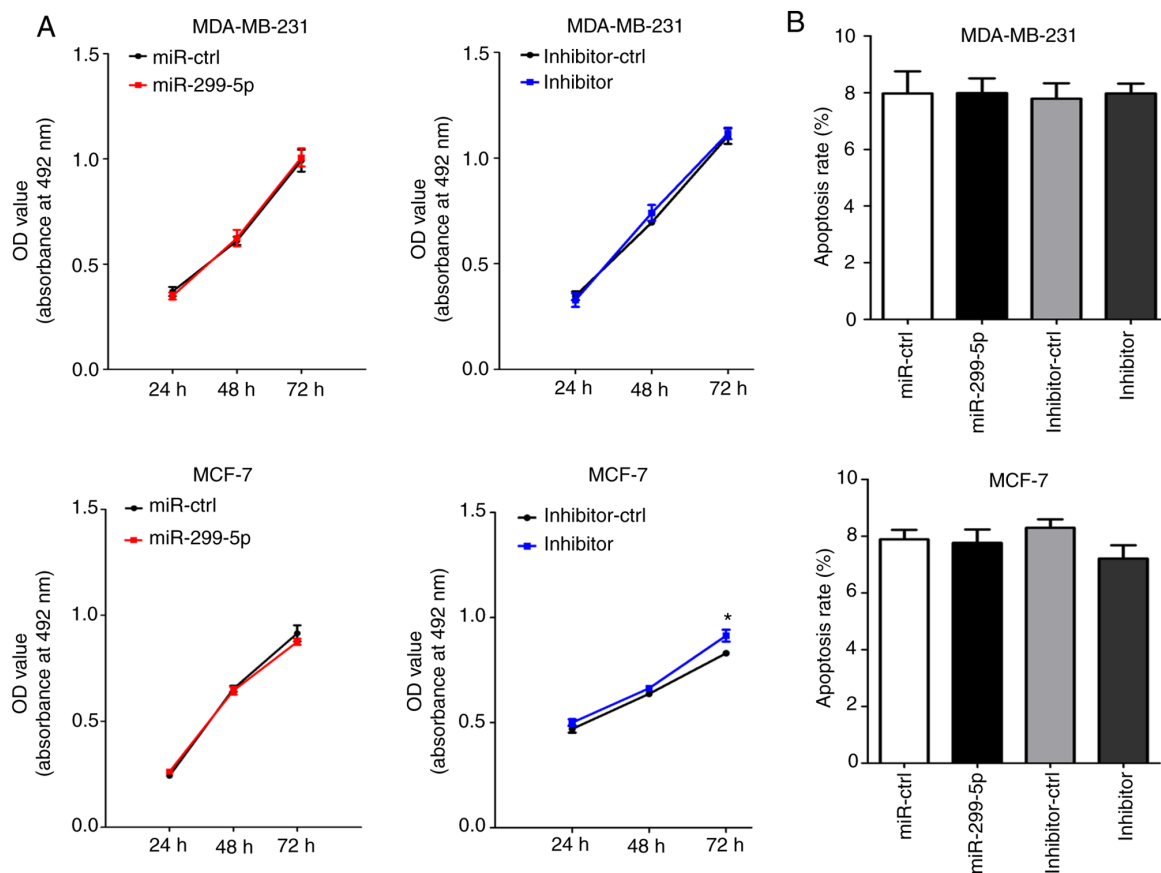


Figure S2. Tumorigenicity assay in nude mice subcutaneous transfection model. (A) Image of tumors derived from lentivirus-miR-ctrl and lentivirus-miR-299-5p MDA-MB-231 cells in nude mice (n=5). (B) Tumor volumes. (C) Tumor weights of 2 groups. Data are presented as the mean \pm standard error of mean.

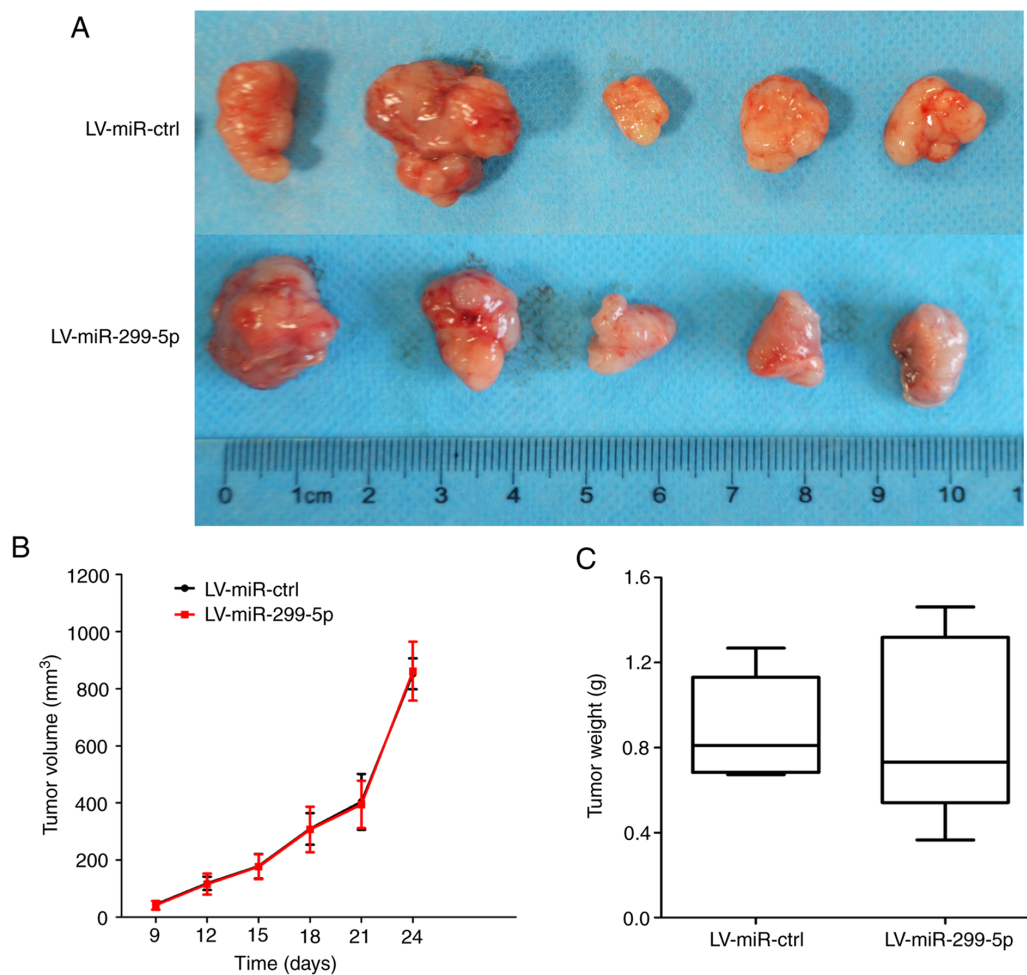


Table SI. Primers and oligonucleotides used in the present study.

Gene name	Sequence (5'-3')
siSTK39-1 sense	GCUGGUCAUGAAAUUACUATT
siSTK39-1 antisense	UAGUAAUUUCAUGACCAGCTT
siSTK39-2 sense	GGAUUUGAAAGCUGGUAUUTT
si-STK39-2 antisense	AUUACCAGCUUUCAAAUCCTT
si-ctrl sense	UUCUCCGAACGUGUCACGUTT
si-ctrl antisense	ACGUGACACGUUCGGAGAATT
miR-299-5p-RT	GTCGTATCCAGTGCCTGTCTGGAGTCGGCAATTGCACTGGATACGACATGTATG
miR-299-5p-F	ATCCAGTGCCTGTCTGG
miR-299-5p-R	TGCTTGGTTTACCGTCCCA
U6-RT	CGCTTCACGAATTTGCGTGTCAT
U6-F	GCTTCGGCAGCACATATACTAAAAT
U6-R	CGCTTCACGAATTTGCGTGTCAT
STK39-F	GCCATCCCAACGTAGTGACC
STK39-R	TGTTCTCCTCGGTTGACAATGTA
β -actin-F	CCAACCGCGAGAAGATGA
β -actin-R	CCAGAGGCGTACAGGGATAG

STK39, serine/threonine kinase 39; si-ctrl, small interfering RNA control; RT, reverse transcription primer.