

Supporting Information

Smartly responsive DNA-miRNA hybrids packaged in exosome for synergistic enhancement of cancer cell apoptosis

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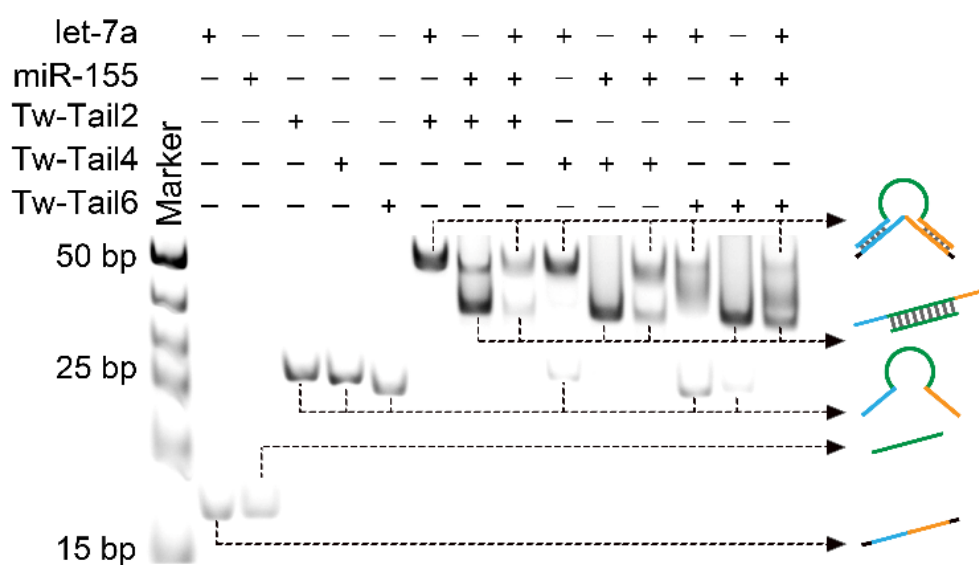


Figure S1. Electrophoretic patterns of the Tw/let-7a hybrid with different lengths of a tail.

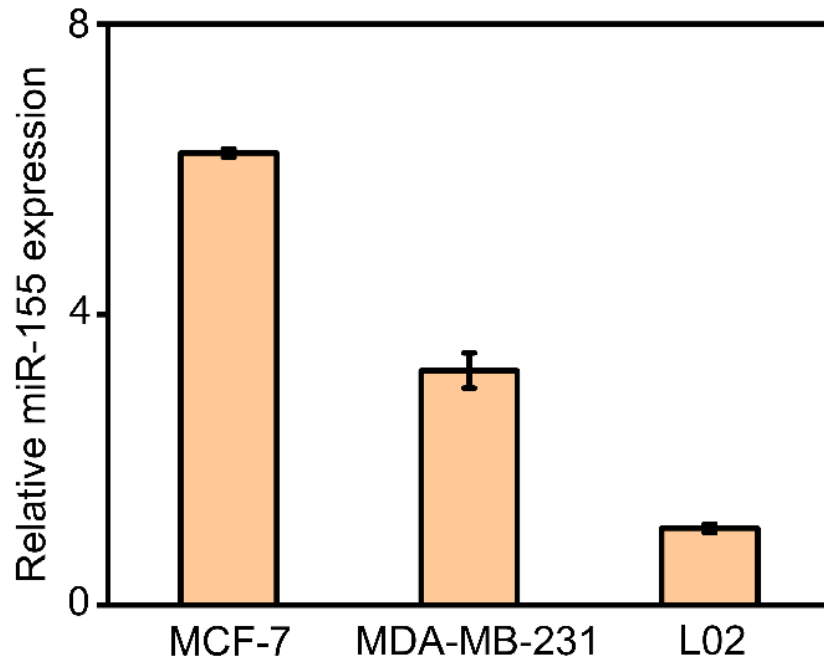


Figure S2. Relative miR-155 expression of different cells by Quantitative Real-time PCR (qRT-PCR).

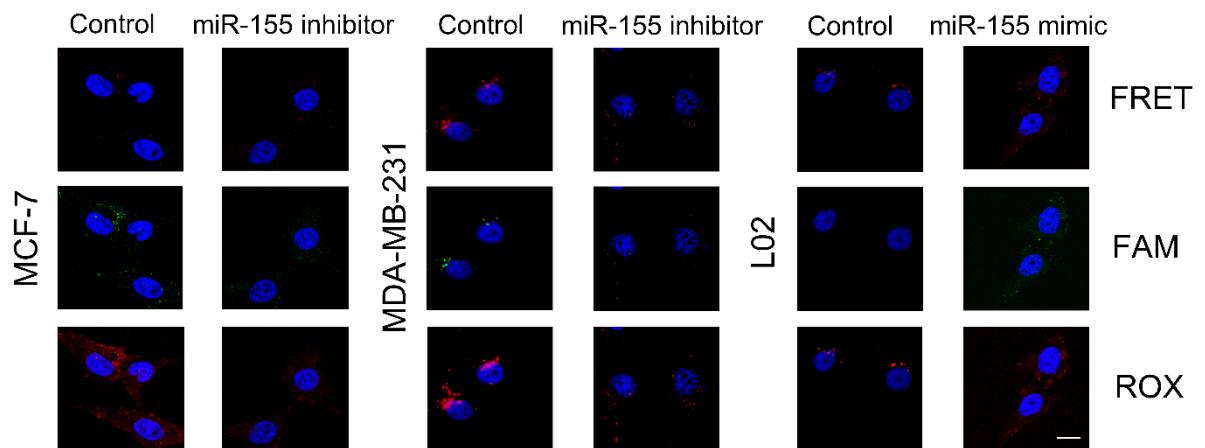


Figure S3. Fluorescence images of different cells after the treatment of Tw-Gap4/let-7a@Exo. The cells have been pretreated with miR-155 mimic or miR-155 inhibitor. Tw-Gap4 was labeled with ROX; and let-7a was labeled with FAM. The nucleus was stained with DAPI. Images were obtained using LSCM. Scale bar = 20 μ m.

Table S1. Sequences of oligonucleotides.

Oligonucleotides	Sequence (5'-3')
let-7a	UGAGGUAGUAGGUUGUAUAGUU
let-7a mimic	TGAGGTAGTAGGTTGTATAGTT
Tweezers	AACTATACAACACCCCTATCACAATTAGCATTAACTACTACCTCA
Tweezers-Gap2	AACTATACAAACCCCTATCACAATTAGCATTAACTACTACCTCA
Tweezers-Gap4	AACTATACAAACCCCTATCACAATTAGCATTAACTACTACCTCA
Tweezers-Gap6	AACTATACAACCCCTATCACAATTAGCATTAACTACTACCTCA
Tweezers-Tail2	ACTATACAACACCCCTATCACAATTAGCATTAACTACTACCTC
Tweezers-Tail4	CTATACAACACCCCTATCACAATTAGCATTAACTACTACCT
Tweezers-Tail6	TATACAACACCCCTATCACAATTAGCATTAACTACTACC
miR155 mimic	UUA AUGCUAAUCGUGAUAGGGGUU
miR-155 inhibitor	AACCCCUAUCACGAUUAGCAUUA