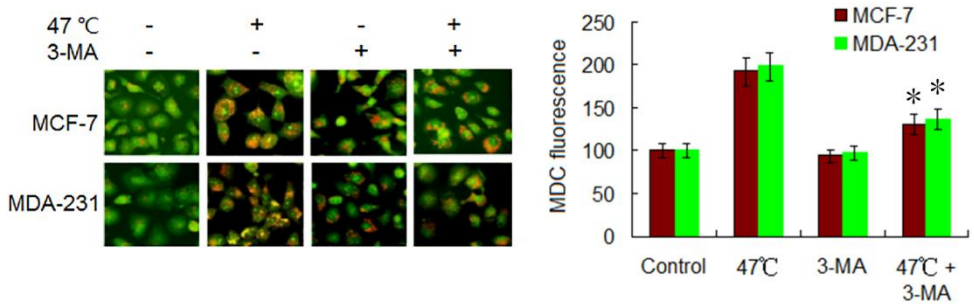
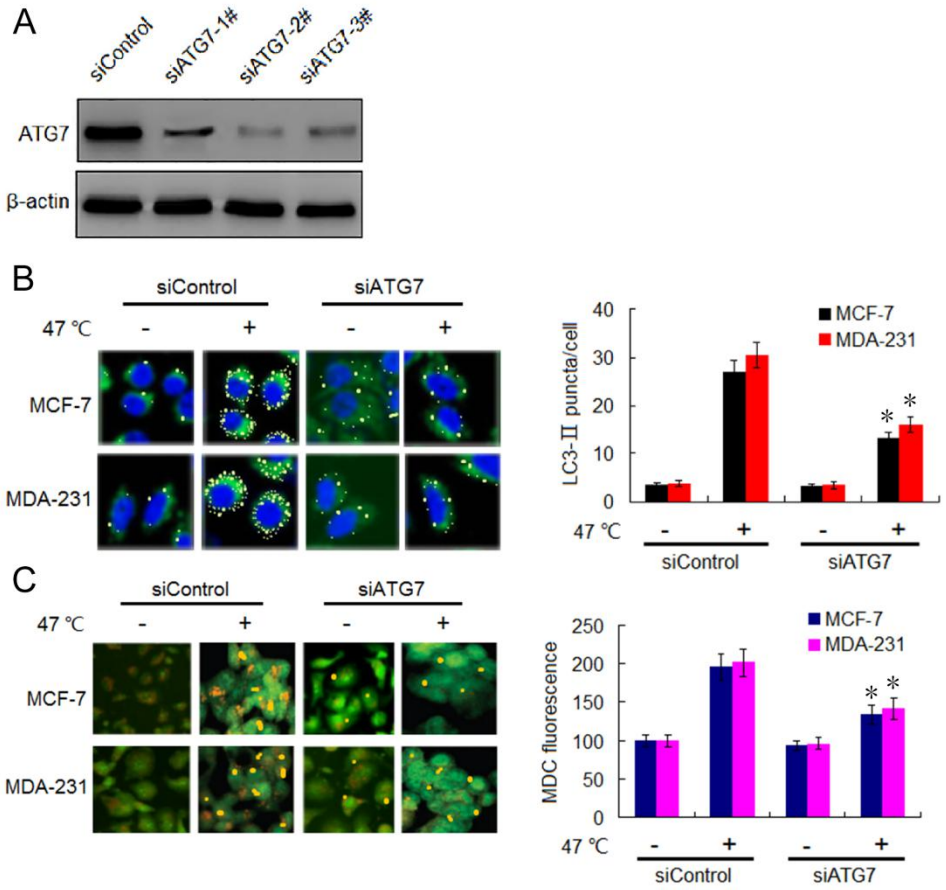
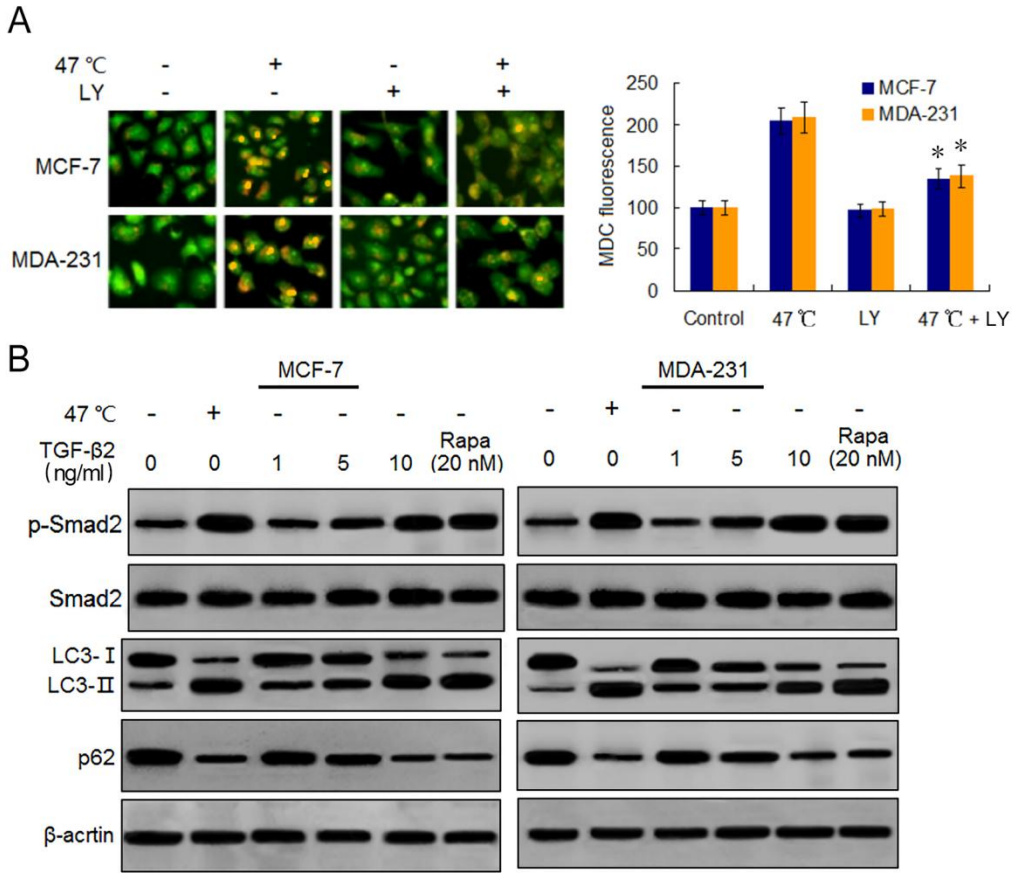
Additional files: Figure S1-4



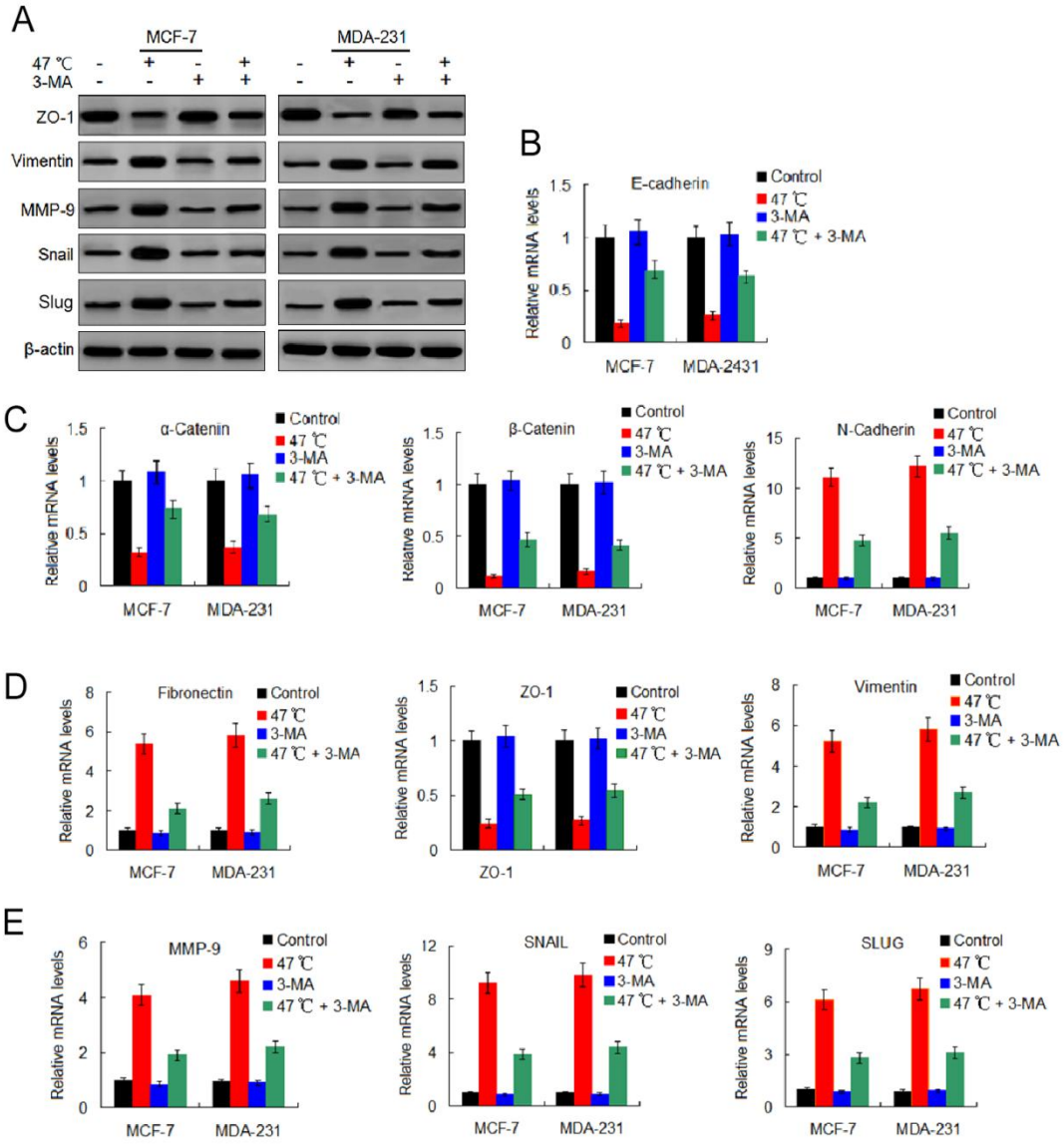
Additional file 1: Figure S1. MCF-7 and MDA-231 cells were exposed to 37℃ or 47℃ for 30 min in the absence or presence of 3-MA (10 μM), followed by culture at 37℃ for 24 h, then AVOs in cells were detected by MDC staining and imaged by a fluorescence microscope (left). The intensity of MDC fluorescence in control (37℃) was defined as 100% (right) (*P < 0.01 vs 47℃).



Additional file 2: Figure S2. (**A**) ATG7 expressions in MDA-231 cells were analyzed by western blotting after transfection with siControl, siATG7-1#, siATG7-2# and siATG7-3#. (**B**) After transfection with siATG7 or siControl, MCF-7 and MDA-231 cells were exposed to 47℃ for 30 min, or maintained at 37℃, followed by culture at 37℃ for 24 h, then the LC3-Ⅱ puncta formation was detected using immunofluorescent analysis and imaged by confocal microscope (left). The number of LC3-Ⅱ puncta/cell was quantified by Image-Pro plus 5.1 software (right) (*P < 0.01 vs 47℃ + siControl). (**C**) The two cell lines were treated as (**B**), then AVOs in cells were detected by MDC staining and imaged by a fluorescent microscope (left). The intensity of MDC fluorescence in control (37℃) was defined as 100% (right) (*P < 0.01 vs 47℃ + siControl).



Additional file 3: Figure S3. (**A**) MCF-7 and MDA-231 cells were exposed to 37℃ or 47℃ for 30 min in the absence or presence of LY2109761 (20 μM), followed culture at 37℃ for 24 h, then AVOs in cells were detected by MDC staining and imaged by a fluorescence microscope (left). The intensity of MDC fluorescence in control (37℃) was defined as 100% (right) (*P < 0.01 vs 47℃). (**B**) MCF-7 and MDA-231 cells were exposed to 47℃ for 30 min, followed by culture at 37℃ for 24 h, or treated with a TGF-β2 dose gradient ranging from 1 ng/ml to 10 ng/ml for 24 h, or treated with rapamycin (20 nM) for 24 h, The expressions of the indicated proteins were detected by western blotting.



Additional file 4: Figure S4. (**A**) MCF-7 and MDA-231 cells were exposed to 47℃ for 30 min in the absence or presence of 3-MA (10 μM), followed culture at 37℃ for 24 h. The expressions of the indicated proteins were detected by western blotting. (**B-E**) MCF-7 and MDA-231 cells were treated as (**A**), relative levels of the indicated miRNAs were analyzed by real-time quantitative PCR.