Supplementary Material



**Figure S1.** Characterization of the blank DNA NG. (A) The UV-Vis-NIR absorption spectra of blank DNA NG and DNA only. (B) TEM observation of blank DNA NG with negative staining. (C) Cell viability of MCF-7 cells treated by blank DNA NG for 48 hours.



**Figure S2.** Effect of light on control cells determined by cell viability assay. Light irradiation: 660 nm, 25 mW/cm2, 30 minutes.