Supporting Information

Homogeneous and ultrasensitive detection of telomerase activity via gold nanorods-based fluorescence reasonance energy transfer

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Fig. S1 Effect of cell extract on the FRET between GNRs and F-DNA.



Fig. S2 Effect of cell extract on the stability of GNRs.



Fig. S3 Stability of the fluorescence intensity of F-DNA (black line) and F-DNA/GNRs (red line) with the prolonging of time.



Fig. S4 Effect of hybridization time on the FRET efficiency.



Fig. S5 Effect of the aspect ratio of GNRs (a) and volume of GNRs (b) on the FRET efficiency (F_0 is represent the fluorescence intensity of F-DNA and F is represent the fluorescence intensity of F-DNA/GNRs (black) or F-DNA/GNRs/TEP (red)). Error bars were calculated from three replicate measurements



Fig. S6 Effect of concentrations of Mg^{2+} on the FRET efficiency.



Fig. S7 UV-Vis spectra (a) and DLS data (b-d) for studying the state of GNRs.