Prompting peroxidase-like activity of gold nanorod composite by localized surface plasmon resonance for fast colorimetric detection of prostate specific antigen

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Fig. S1. TEM images of AuNC/GNRs heterostructure.

Fig. S2. (a) Photograph of AuNC/GNRs sediment (i) and suspension (ii) under UV irradiation ($\lambda = 365$ nm) and their corresponding fluorescent spectra (b). (c) AuNCs simply mixed with GNRs without activated reagents (EDC and NHS), (i) AuNCs, (ii) supernate by centrifugation from the simple mixture of AuNCs and GNRs, (iii) GNRs obtained from the centrifugation of the mixture of AuNCs and GNRs, (d) fluorescent spectra corresponding to (c).
Fig. S3. (a) LSPR spectrum of AuNC/GNRs heterostructure. (b) Photographs of blue ribbon appeared in cuvettes as the monochromatic light spot (λ=750, 802, 880 nm) pass through the solution containing TMB, H₂O₂ and AuNC/GNRs heterostructure after 10 min.