

**Electronic Supplementary Information**

**Gold Nanorods-based FRET assay for sensitive detection of Pb<sup>2+</sup>**

**using 8-17DNAzyme**

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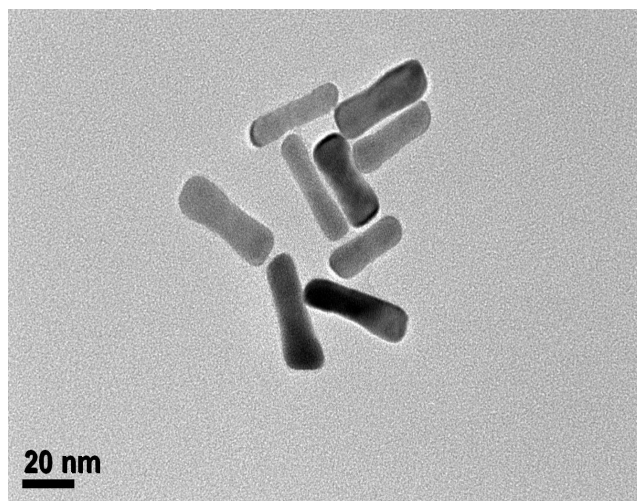


Fig. S1 TEM images of GNRs.

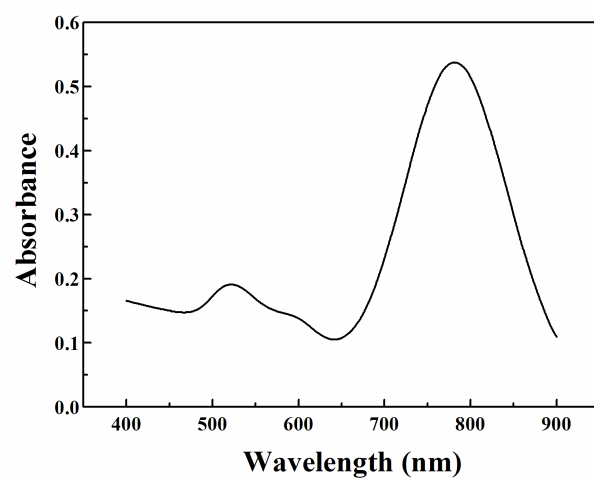


Fig. S2 UV-vis absorption of GNRs.

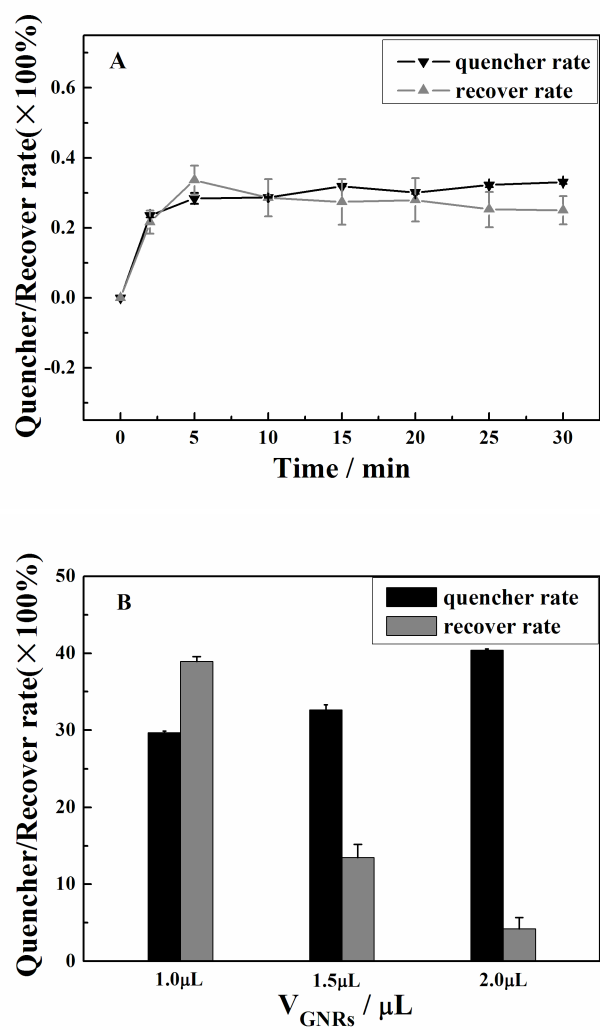


Fig. S3 (A) Optimization of the quencher and recover reaction time and (B) the amount of gold nanorods. The concentration of F-17S/17E duplex and  $\text{Pb}^{2+}$  ions were 10 nM.