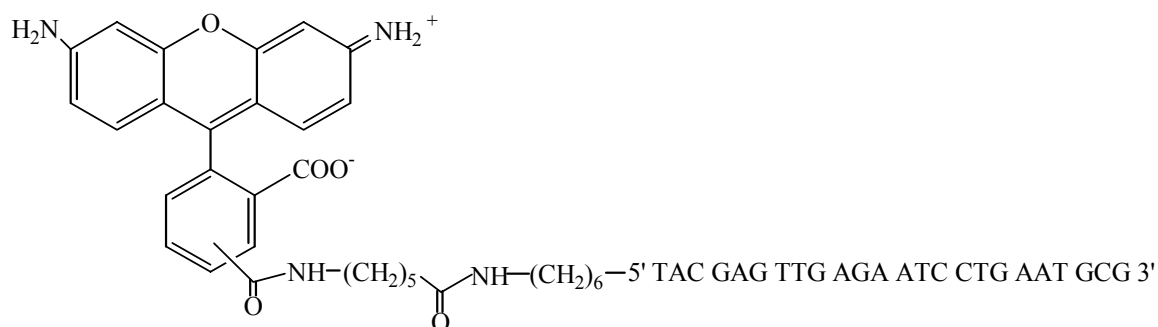


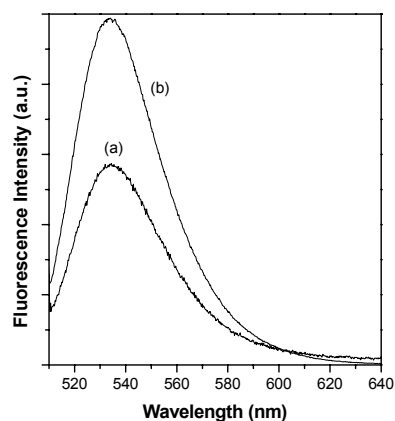
## SUPPORTING INFORMATION

### Gram-scale Synthesis and Bio-functionalization of Silica-coated Silver Nanoparticles for Fast Colorimetric DNA Detection

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**Figure 1s.** Molecular structure of fluorescent complementary oligo target 5' Rhodamine G-CONH-(CH<sub>2</sub>)<sub>5</sub>-CONH-(CH<sub>2</sub>)<sub>6</sub>-TAC-GAG-TTG-AGA-ATC-CTG-AAT-GCG 3'.



**Figure 2s.** (a) Fluorescence spectrum of 5' Rhodamine G-CONH-(CH<sub>2</sub>)<sub>5</sub>-CONH-(CH<sub>2</sub>)<sub>6</sub>-TAC-GAG-TTG-AGA-ATC-CTG-AAT-GCG 3' displaced by a dehybridization process for determining hybridization efficiency as compared to that of (b) a standard sample containing 0.2 nmol fluorescent target oligonucleotides.