Electronic Supplementary Information (ESI)

A silver nanorod based SERS assay for the homogeneous detection of uracil-DNA glycosylase activity

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Supplementary Figures

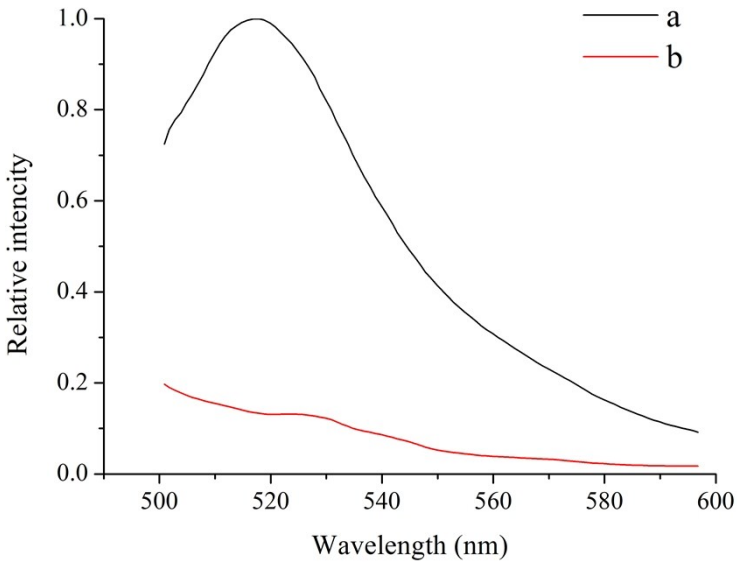

Fig. S1 The fluorescence spectra of FAM-labeled P_2 probe in the absence (a) and presence (b) of AgNRs.

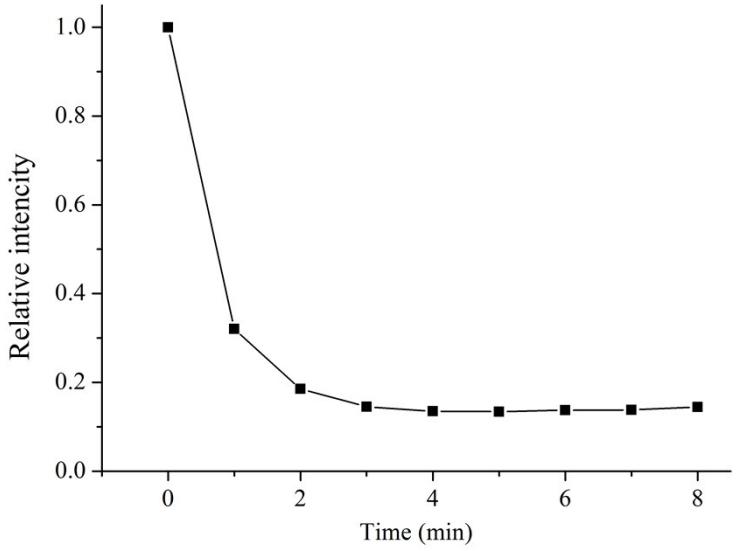

Fig. S2 The effect of incubation time between P_2 probe and AgNRs on the fluorescence intensity.

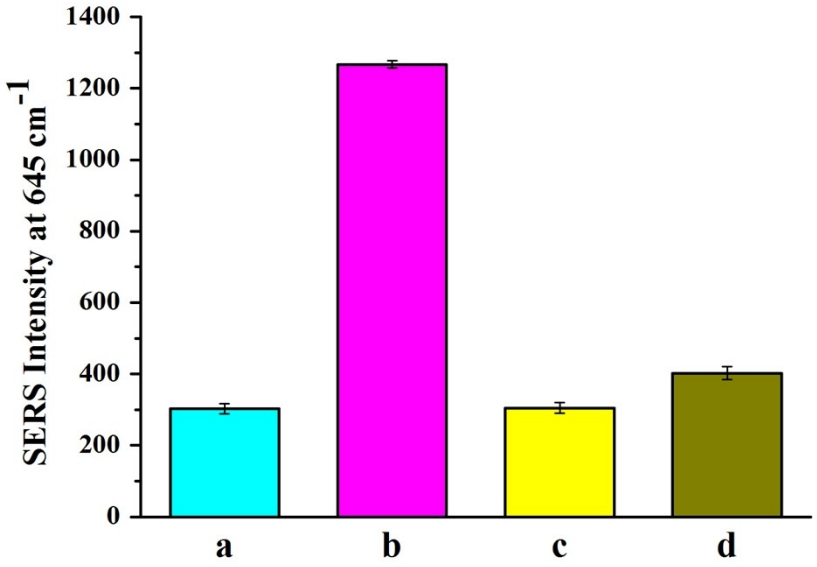

Fig. S3 SERS signal at 645 cm^{-1} under different conditions. A: P_1P_2 + AgNRs; b: P_1P_2 + UDG + AgNRs; c: P_2P_3 + AgNRs; d: P_2P_3 + UDG + AgNRs. The concentrations of P_1P_2 and P_2P_3 were both 25 nM. The concentration of UDG was 5 U mL^{-1}.

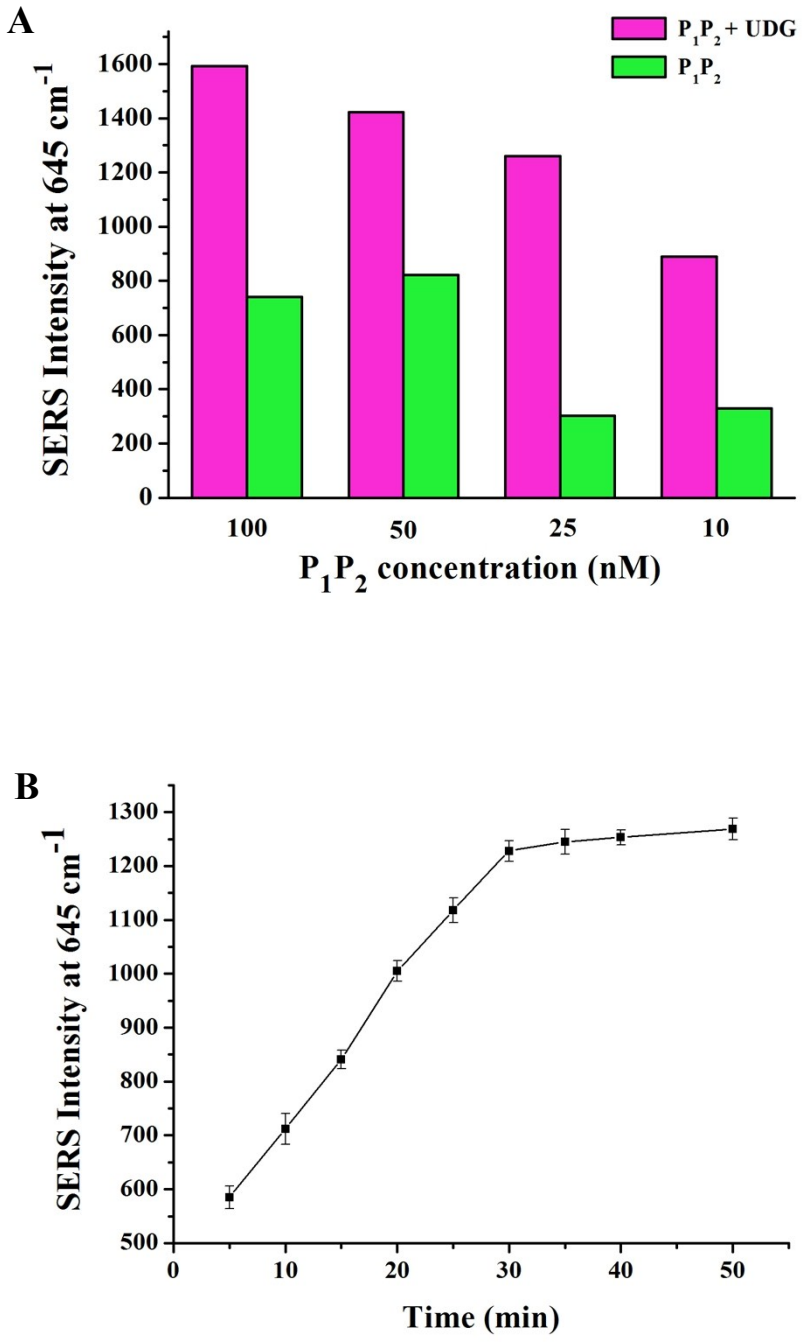

Fig. S4 (A) SERS signal at 645 cm^{-1} under different P_1P_2 probe concentration. (B) The optimization of the enzymatic reaction time.

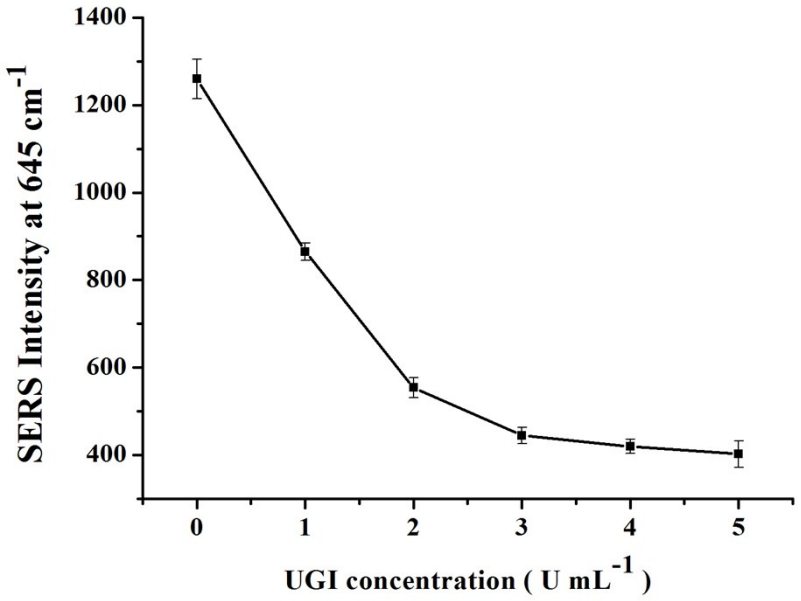

Fig. S5 Influence of UGI on the activity of UDG. Error bars were estimated from three replicate measurements.