**Supplementary Information**

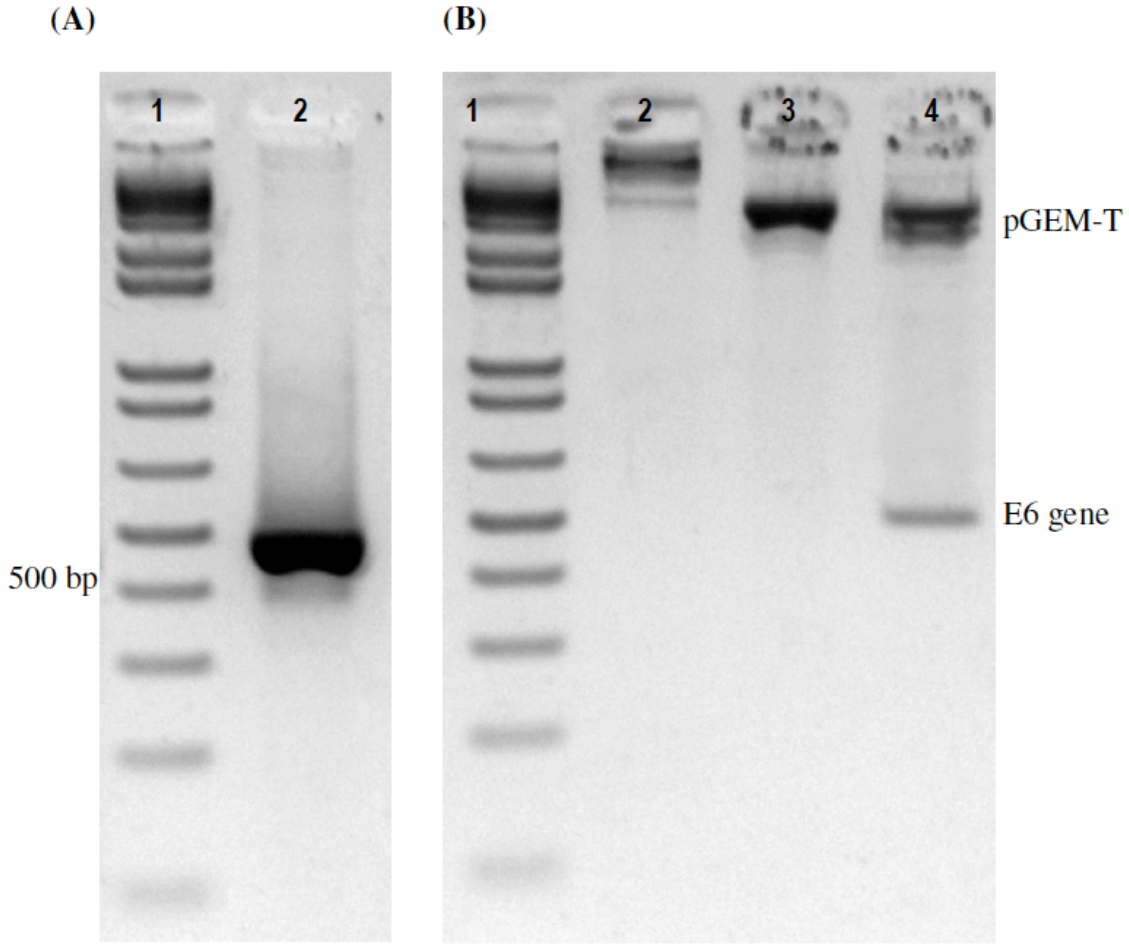


**Fig. S1.** Amplification of the E6 gene and enzymatic digestion of the pGEM-T/E6 observed in 1% agarose gel. [A] Lines:(1) 1 kbPlus DNA Ladder (Invitrogen), (2) E6 amplification; [B] Lines: (1) 1 kb Plus DNA Ladder (Invitrogen), (2) pGEM-T/E6 extraction, (3) linearized plasmid DNA (pGEM-T/E6) with *ApaI*, (4) digested plasmid (pGEM-T/E6) with *EcoRI* and *XbaI*.

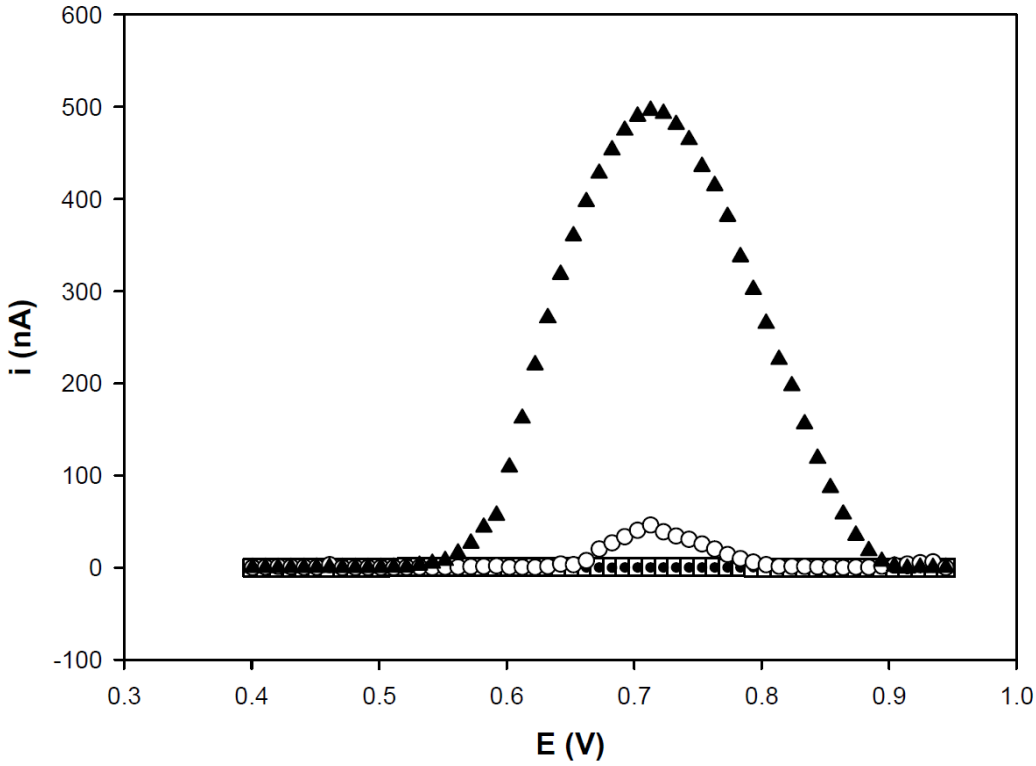


**Fig. S2.** Differential pulse voltammograms of inosine oxidation signal at non-activated bare PGE (□), E6 probe immobilized on non-activated PGE (○), activated bare PGE (●) and E6 probe immobilized on activated PGE (▲). Solution concentration of the E6 probe was 500 nM. The oxidation signal was obtained by differential pulse voltammetry in 20 mM Tris-HCl buffer (pH 7.0).

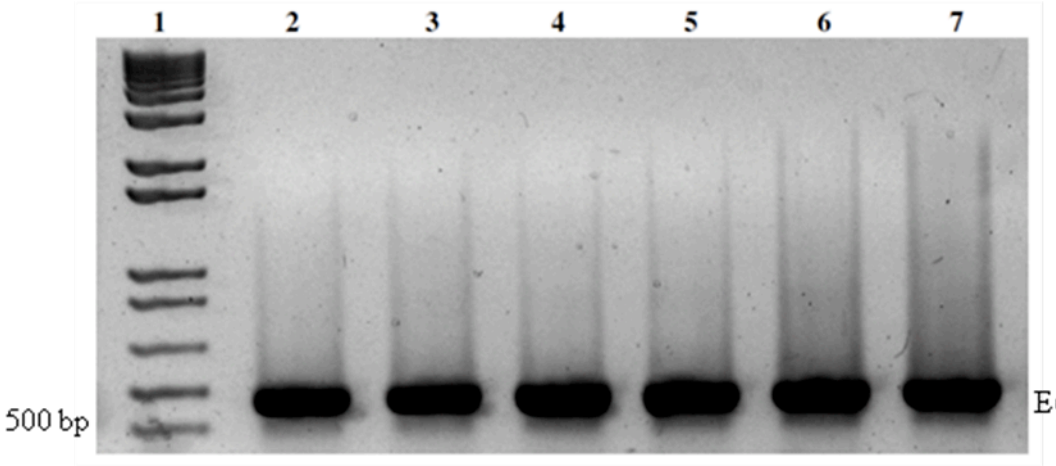


**Fig. S3.** Electrophoresis using a 1 % agarose gel stained with ethidium bromide for the samples of linearized plasmid DNA (pGEM-T/E6) submitted to PCR amplification. Lines: (1) 1 kb Plus DNA Ladder (Invitrogen), (2 to 7) 40 pg/μL; 70 pg/μL; 1,250 pg/μL; 2,500 pg/μL; 5,000 pg/μL; 15,000 pg/μL of linearized plasmid, respectively.