Supplementary Materials

An Electrochemical DNA Biosensor Based on Denatured Vesicle-Mediated Chain Exchange Amplification Combined with Electric Field-Assisted for Nucleic Acids Detection

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Table S1 Nucleic acid sequences used in the biosensor.

Name	Sequence (5'-3')	Modifier
Target	CAAAGATACCCTCTCGACTAAACAA CCAAGATAGAATAAAACAAAAC	/
SH-F1	CAAAGATACCCTCTCGAC	5'-SH-$(CH_2)_6$-T_{30}
F1	CAAAGATACCCTCTCGAC	/
Biotin-R1	GTTTTGTTTTATTCTATCTTGGTTG	5'-biotin

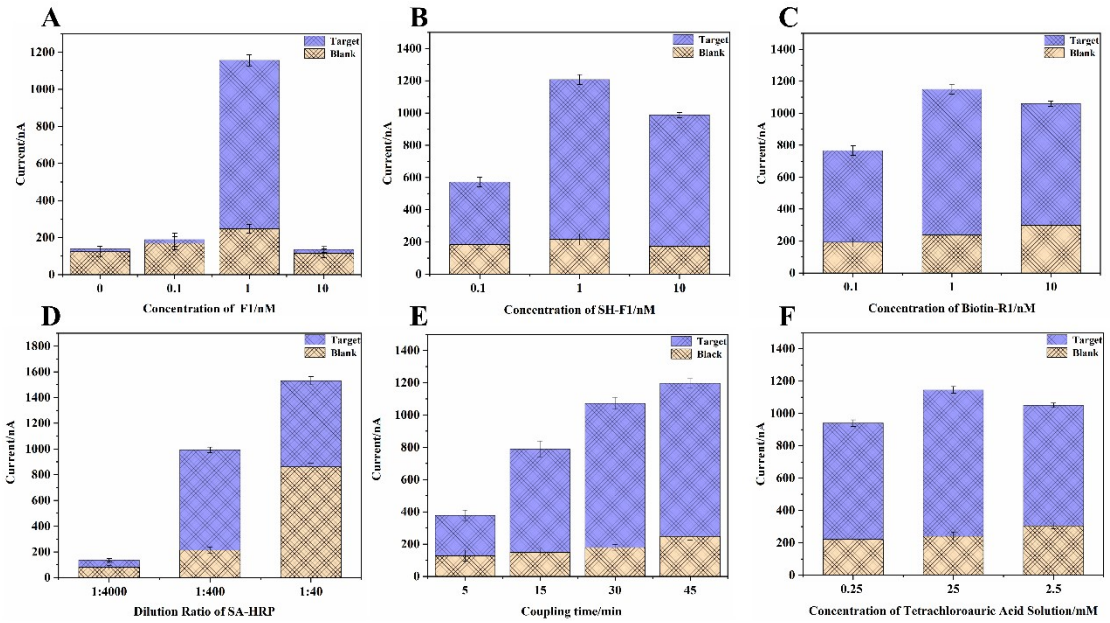

Fig. S1 Optimization of experimental conditions. (A)Concentration of F1, (B) Concentration of SH-F1, (C) Concentration of Biotin-R1, (D)Dilution Ratio of SA-HRP, (E) Coupling time, (F) Concentration of Tetrachloroauric Acid Solution.

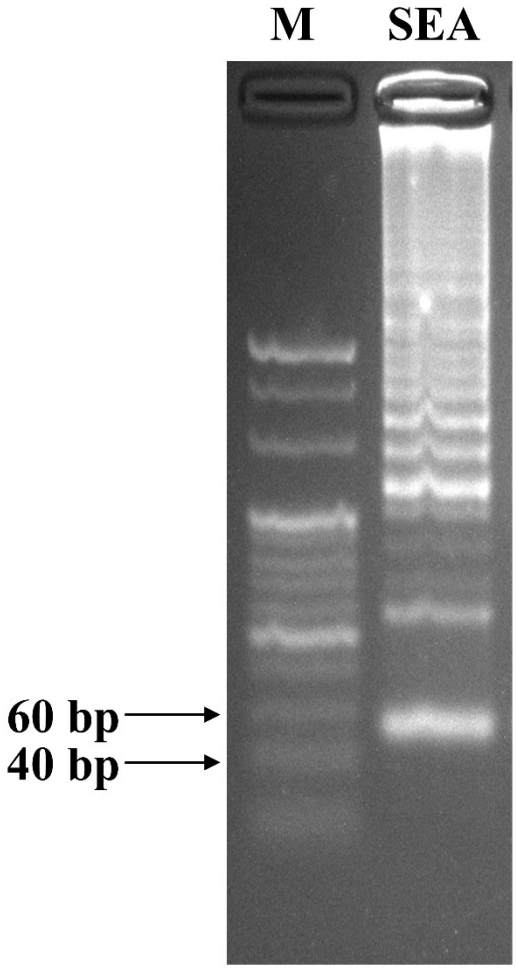

Fig. S2 Gel electrophoresis diagram of SEA amplification.