

Supporting Information

Ultrafast Capillary Electrophoresis Isolation of DNA Aptamer for the PCR Amplification-Based Small Analyte Sensing

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Figure S1: Fluorescence anisotropy change Δr of F-St₁A in presence of 2000 μ M adenosine under different St₂-AmpA concentrations: 80 nM, 200 nM, 400 nM, 600 nM. F-St₁A: 10 nM. Binding buffer conditions: 10 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM MgCl₂; reaction temperature 25°C.

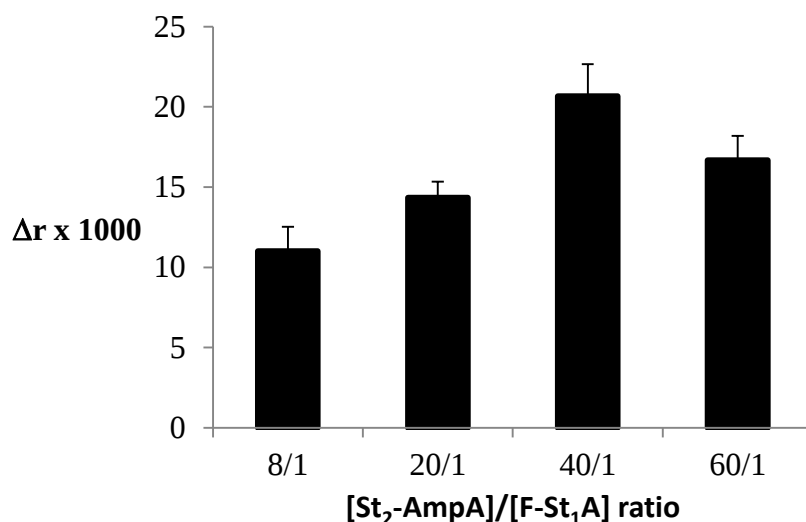


Figure S2 The relative Δr value plotted against the adenosine concentrations using the F-St₁A-St₂A split aptamer (filled square), F-St₁A-St₂-AmpA split fragments (open circle) and F-St₁A-St₂-AmpA-Rev primA hybrid (filled circle). F-St₁A: 10 nM, St₂AmpA: 400 nM, Rev primA: 400 nM. Binding buffer conditions: 10 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM MgCl₂; reaction temperature 25°C.

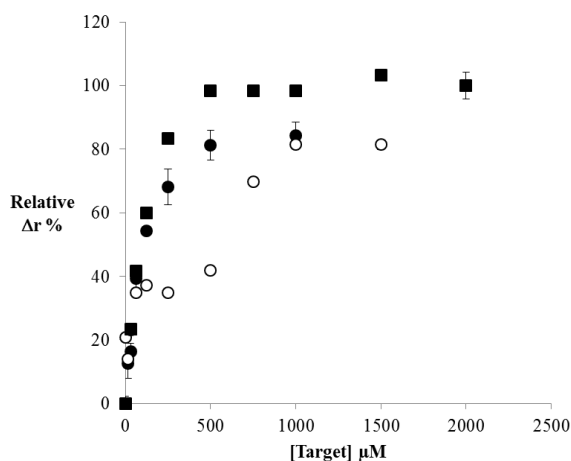


Figure S3: Fluorescence anisotropy change Δr of F-St1-CholB (10 nM) with St₂-AmpB (400 nM) in presence of 125 μ M adenosine under different Rev PrimB concentrations: 100 nM, 400 nM, 1600 nM. Binding buffer conditions: 20 mM Tris-HCl, pH 7.5, 25 mM NaCl, 5 mM MgCl₂; reaction temperature 25°C.

