Supplementary Materials: A Novel Technique to Detect *EGFR* Mutations in Lung Cancer

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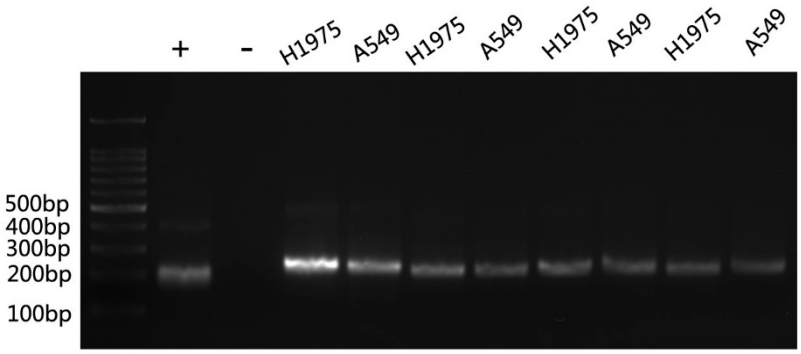

Figure S1. Primer set without PNA for detecting the L858R mutation in 10 min.

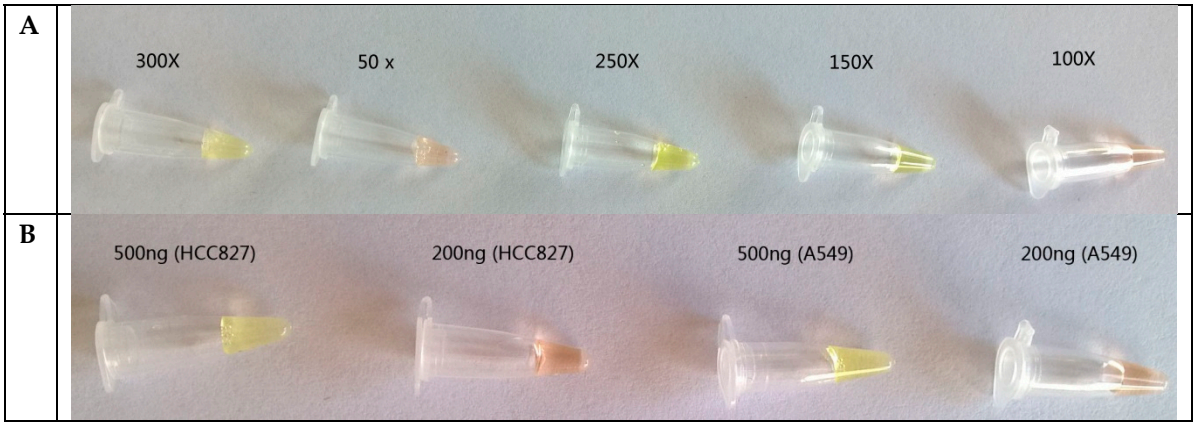

Figure S2. (**A**) Optimization of the SYBR detection system. The products of the ARPS system for detecting the *EGFR*L858R mutation in the HCC827 cell line (300ng DNA), which harbors the 19Del mutation, in 15 min. From left to right, the concentration of SYBR was 1 μL of 300×, 50×, 250×, 150×, and 100× per 20 μL of product. We chose 1 μL of 200× SYBR per 20 μL of RPA product for the experiment; (**B**) Optimization of the SYBR detection system. The concentration of SYBR was 1 μL of 200× SYBR per 20 μL of RPA product. The products of the ARPS system for detecting the *EGFR*L858R mutation in the HCC827 cell line (500 ng/200 ng DNA) and the A549 cell line (500 ng/200 ng DNA) in 15 min. We chose 300 ng of template as in the experiment shown in Figure S1.