Supplementary Information for

FRET probe for detecting two mutations in one EGFR mRNA

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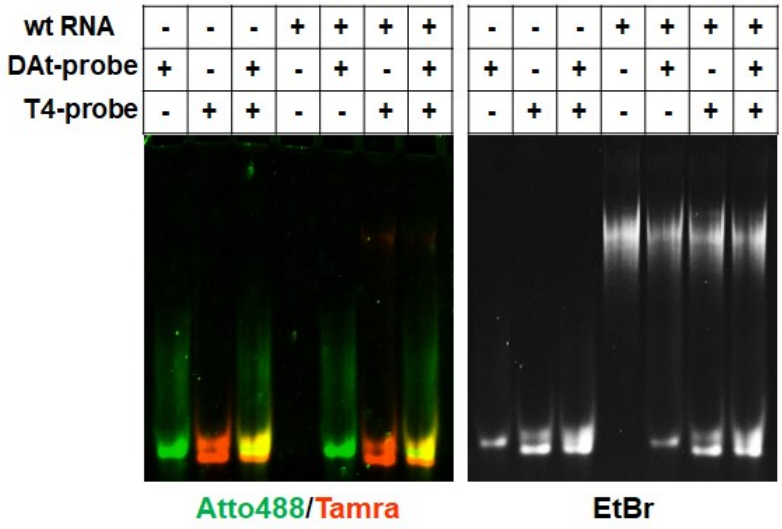

Figure S1. Confirmation of the wt RNA binding of DAt- and T4-probes by 8 % denatured PAGE. In the left panel, Atto488 is shown in green and Tamra in orange. In the right panel, nucleic acids are stained with ethidium bromide.

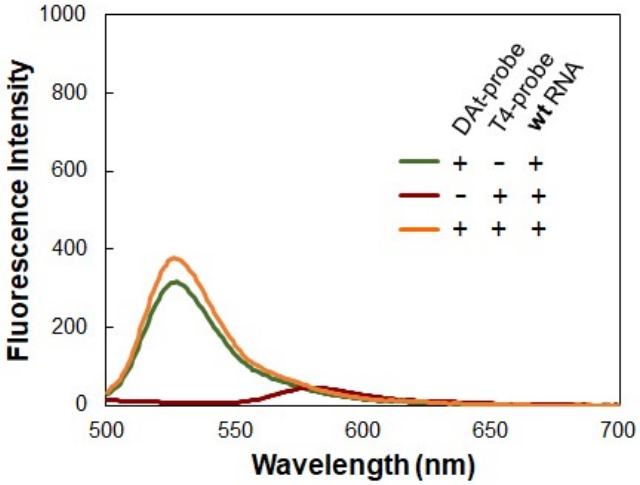

Figure S2. Fluorescence spectra of DAt- and T4-probes with wt RNA.

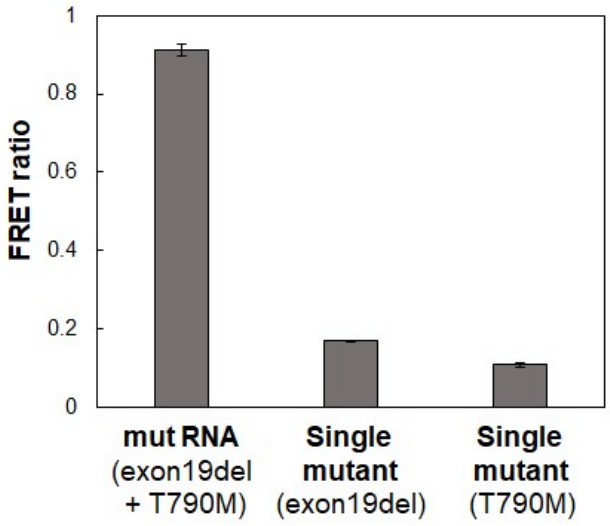

Figure S3. FRET ratios using the DAt-/T4-probe with double mutant RNA (mut RNA) or single mutant RNA. The data are presented as mean ± SEM; n = 3.

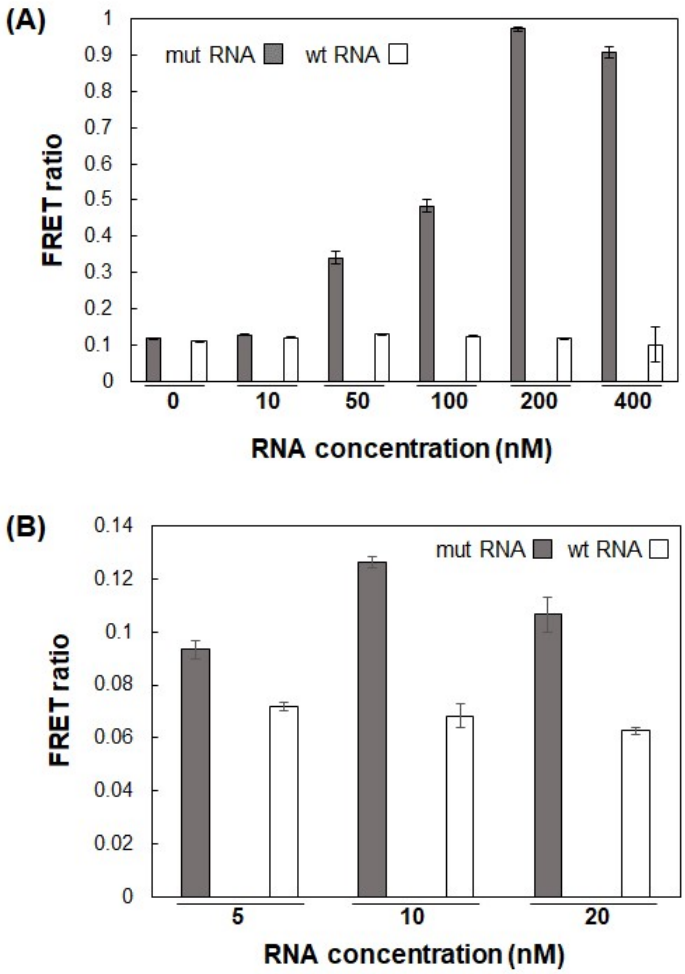

Figure S4. FRET ratios using the DAt-/T4-probe with mut or wt RNA at various concentrations. (A) The probes (200 nM) and RNA were mixed and incubated at 37 °C for 60 min. (B) The probes (10 nM) and RNA were mixed and incubated at 37 °C for 60 min. The data are presented as mean ± SEM; n = 3.