

Figure S1. Weight changes and survival rates of mice infected with r/YJ4 and r/YJ4-251R viruses. Six-week-old female BALB/c mice were inoculated intranasally with r/YJ4 and r/YJ4-251R viruses at 10^6 TCID₅₀. Body weight change rate (A) and survival rate (B) in the infected mouse were continuously recorded for 14 days. Mice with weight loss of more than 25% of their initial body weight were euthanized humanely. Significant body weight changes of the mutant virus-inoculated mice compared with YJ4 virus-inoculated mice (*, $p < 0.05$).

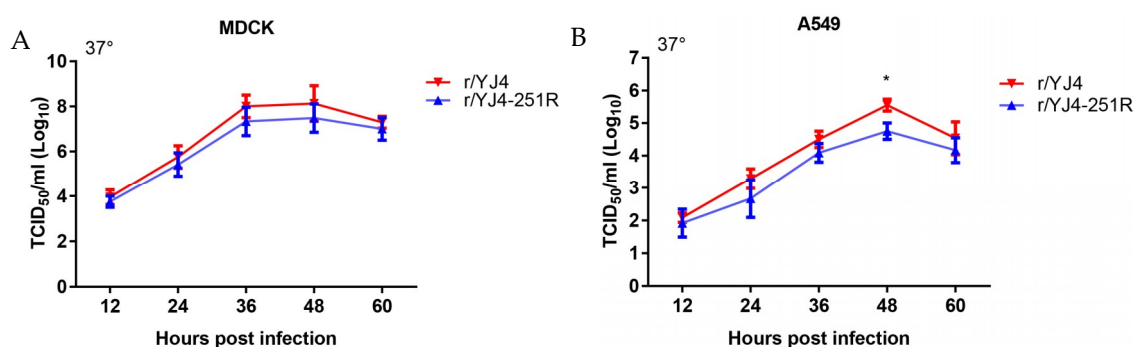


Figure S2. Growth Kinetics of r/YJ4 and r/YJ4-251R viruses in MDCK (A) and A549 (B) cells at 37 °C. MDCK cells (A) or A549 cells (B) were infected at an MOI of 0.01 with r/YJ4 and r/YJ4-251R viruses and cultured at 37 °C. Culture supernatants were harvested at 12, 24, 36, 48 and 60 hpi and subjected to TCID₅₀ assay in MDCK cells. Results are expressed as the means \pm SD ($n = 3$) and the statistical significance was calculated using one-way ANOVA. *, $p < 0.05$.