Figure S1. Additional data of WT and D614G infected primary human airway epithelial cells. A. Growth curves of the two viruses in individual primary nasal (i), large airway (ii) and small airway (iii) epithelial cells relating to Fig 1 D to F, MOI = 0.1; plaque assay detection limit: 1.7 log_{10}PFU/mL. B. comparison of WT and D614G titer at 96h on HNE, LAE and SAE. C. Whole-mount staining of WT and D614G infected LAE cultures, blue: Hoechst (nuclei), red: phalloidin (F-actin), white: cilia (α-tubulin); yellow: MUC5AC, Green: SARS-CoV-2 N protein, scale bar: 50μm.

Figure S2. Experimental design of hamster transmission study. A, Timeline of nasal wash sampling from infected and exposed animals. B. Image of hamsters in the cage in transmission study.
**Figure S2**

### A

| Infected hamsters (Day post infection) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|
| Exposed hamsters (Day post exposure)  | - | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

- red: nasal wash sampling
- blue: nasal wash sampling

### B

![Image of hamsters in cage]

- Infected hamsters (Day post infection): 2, 3, 5, 6, 7
- Exposed hamsters (Day post exposure): 1, 2, 3, 4, 5, 6, 7