

Cell Reports, Volume 40

Supplemental information

**Spike protein-independent attenuation
of SARS-CoV-2 Omicron variant
in laboratory mice**

Shufeng Liu, Prabhuanand Selvaraj, Kotou Sangare, Binqun Luan, and Tony T. Wang

Supplemental Information

Spike Protein-independent Attenuation of SARS-CoV-2 Omicron Variant in Laboratory Mice

Shufeng Liu^{1, ¶}, Prabhuanand Selvaraj^{1, ¶}, Kotou Sangare¹, Binqun Luan^{2, *}, Tony T. Wang^{1, *}

¹Division of Viral Products, Center for Biologics Evaluation and Research, Food and Drug Administration; Silver Spring, Maryland, USA, 20993.

² Computational Biological Center, IBM Thomas J. Watson Research, Yorktown Heights, New York 10598, United States.

*Corresponding authors. Email: bluan@us.ibm.com or Tony.Wang@fda.hhs.gov.

¶These authors contributed equally.

Supplemental Figure Legends

Figure S1. A recombinant SARS-CoV-2 (i.e., WA1-Q493R/N501Y) infects laboratory mice, Related to Figure 2. (A) Overall study design (B) Weight loss profile. (C) sgRNA levels in nasal turbinates (NB) and the lungs at 2 DPI. Representative HE and RNAscope images of an entire lobe of the lung from the uninfected (D), WA1 infected (E), and WA1-Q493R/N501Y-infected mice (F). Closeup images are also included in (F).

