**Virologica Sinica**

**Supplementary Data**

**Recombinant chimpanzee adenovirus vector vaccine expressing the spike protein provides effective and lasting protection against SARS-CoV-2 infection**

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Figure S1. The panoramic scans for the transgenic mice given 1 (i to iii) or 2 dose (iv to vi) immunizations after challenge with SARS-CoV-2 at 21 days after the last vaccination.

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Figure S2. Neutralization of different SARS-CoV-2 variant pseudovirus at 6 months after 1 dose and 2 doses immunization. Different variants of SARS-CoV-2 include Alpha, Gamma, Delta and Epsilon respectively. The vaccine had the highest neutralization ability against the Alpha variants of SARS-CoV-2, while it has the least neutralization ability against the Delta variants.

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Figure S3. The panoramic scans for the wild-type mice given 1 (i to iii) or 2 dose (iv to vi) immunizations after challenge with SARS-CoV-2 at 6 months after the last vaccination.