

Supplementary Materials for

Long-term stability and protection efficacy of the RBD-targeting COVID-19 mRNA vaccine in nonhuman primates

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Materials and Methods

Cytokine secretion assays

Serum samples of animals on day 0 and 7 post challenge were collected by centrifugation and heat inactivated at 56°C. Serum concentrations of cytokines were measured with a ProcartaPlex NHP Cytokine/Chemokine/GF 37 plex (Invitrogen, #EXP370-40045-901) according to the manufacturer's instruction. Assays were performed on a Luminex 200™ machine equipped with xPONENT Software (ThermoFisher). We calculated the fold change of the cytokine level on day 7 post challenge compared with day 0. The heatmap of cytokines change were constructed using the pheatmap package (<https://cran.rstudio.com/web/packages/pheatmap/index.html>). Statistical significance was calculated by Mann-Whitney non-parametric t test.

