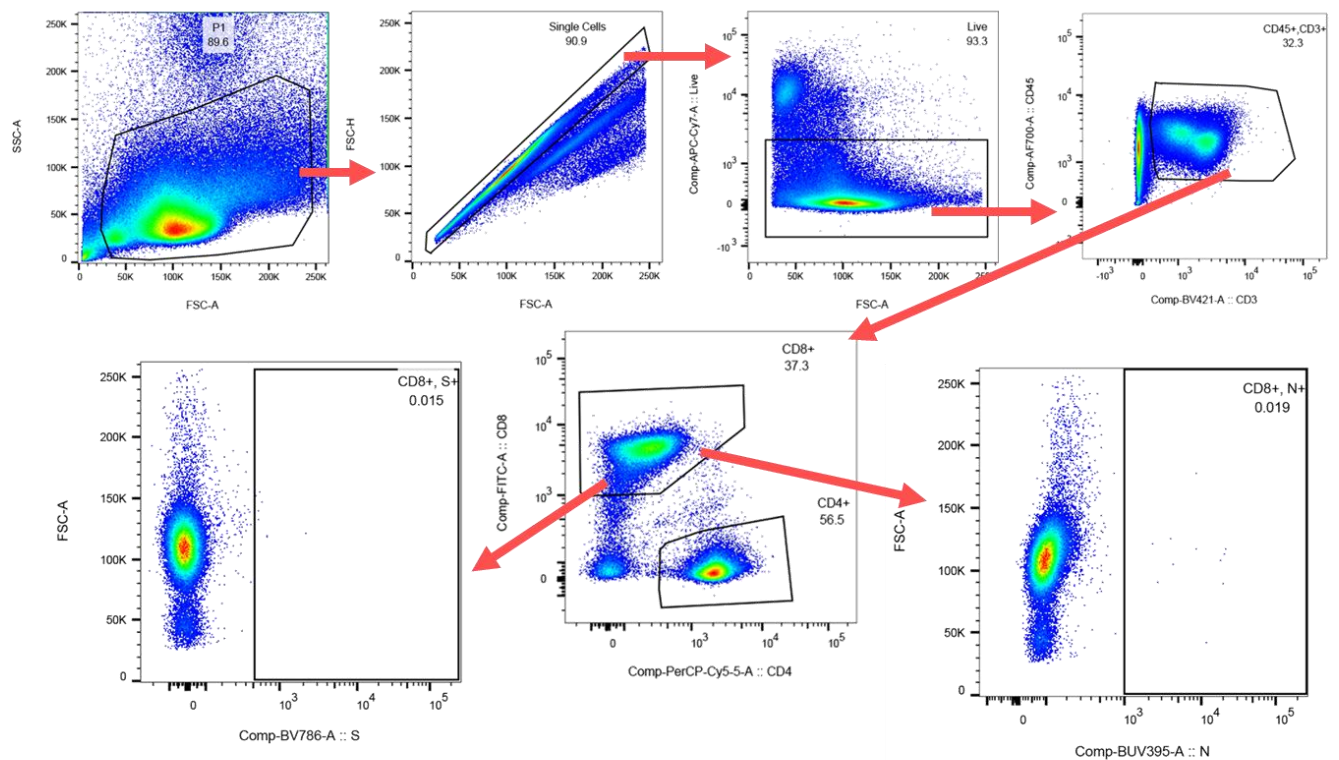
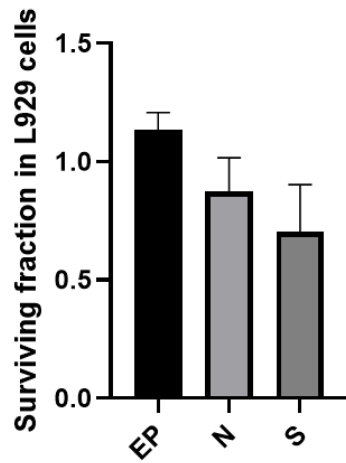


What We Learned about the Feasibility of Gene Electrotransfer for Vaccination on a Model of COVID-19 Vaccine

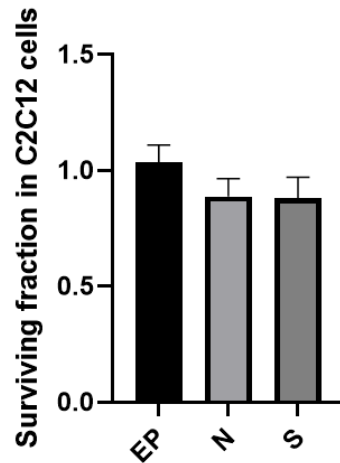
Supplementary data



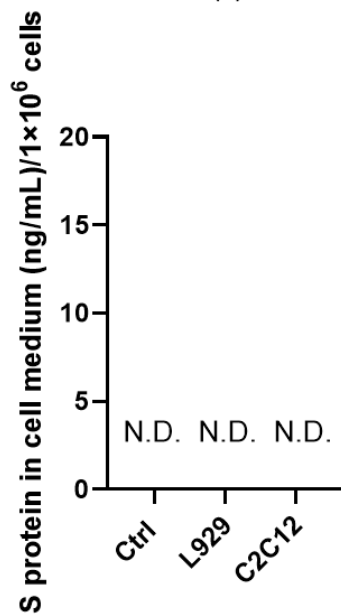
Supplementary Figure S1. Flow cytometry gating strategy.



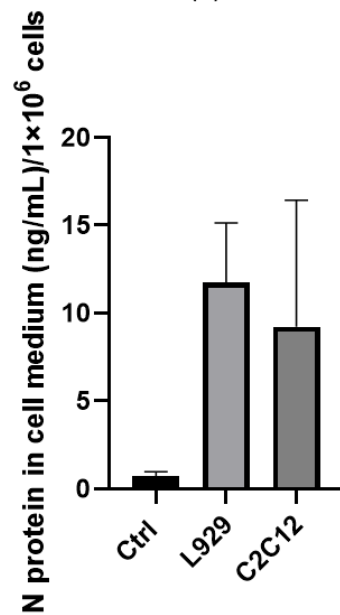
(a)



(b)

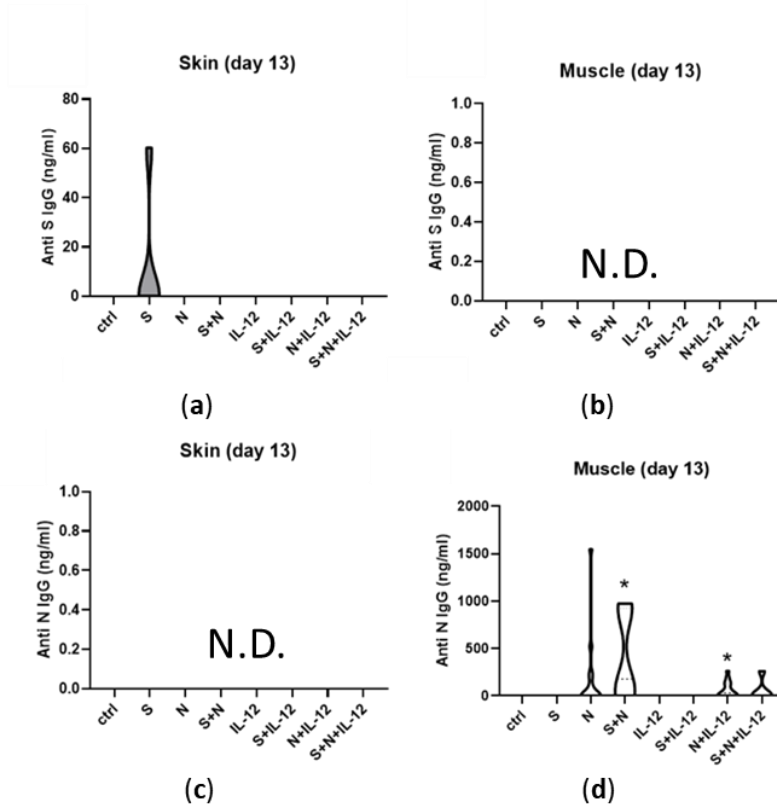


(c)



(d)

Supplementary Figure S2. In vitro survival and cell-medium S and N protein concentration after vitro GET to L929 fibroblasts and C2C12 myoblasts: (a) Survival after GET in L929 cells; (b) Survival after GET in C2C12 cells. (c) Concentration of S protein in cell medium; (d) Concentration of N protein in cell medium. Graph bars represent the mean with standard error of the mean (SEM) of three independent experiments with 3 technical replicates. EP, electroporation alone, GET of pN plasmid, pS, GET of pS plasmid. Ctrl, non-transfected cells; N.D., not detected.



Supplementary Figure S3. Induction of specific IgG antibodies against the transfected S and N antigens in the blood serum of the vaccinated mice 13 days after the first vaccine dose: **(a)** Concentration of anti-S IgG antibodies after skin vaccination; **(b)** Concentration of anti-S IgG antibodies after muscle vaccination; **(c)** Concentration of anti-N IgG antibodies after skin vaccination; **(d)** Concentration of anti-N IgG antibodies after muscle vaccination. Results are presented as violin plots showing data distribution. 5-10 animals per group. Ctrl, nontreated mice. One-way ANOVA vs Ctrl: *, $P \leq 0.05$. N.D., not detected.