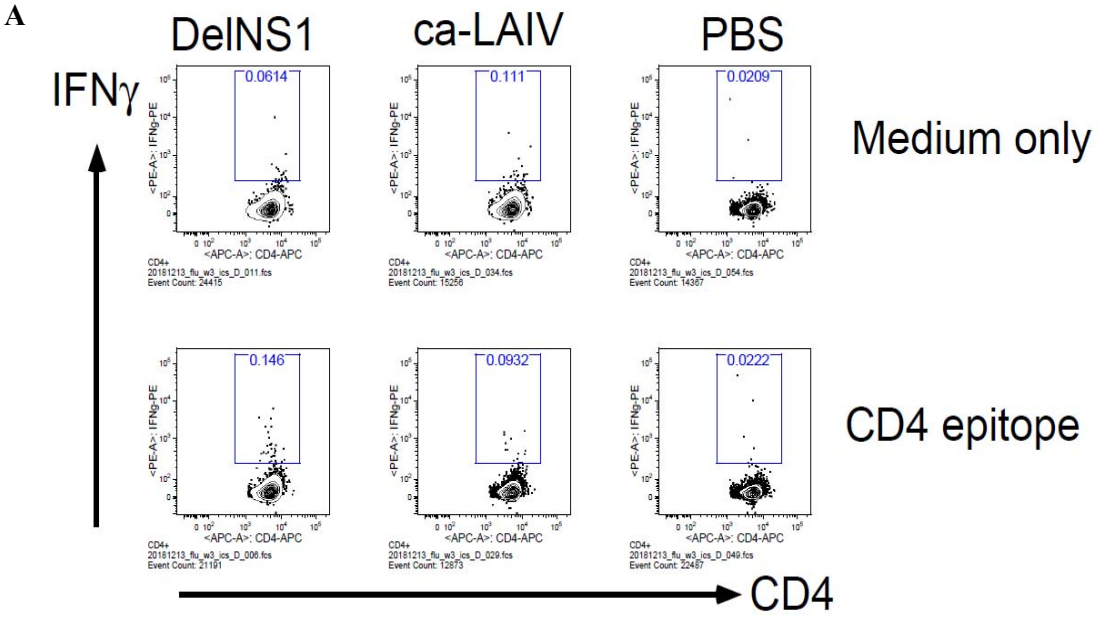
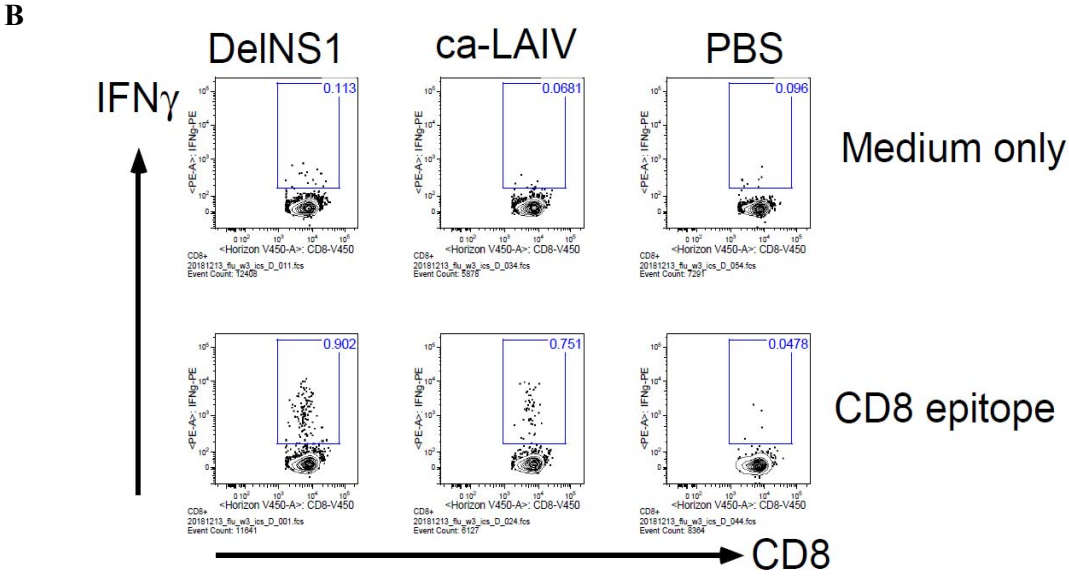
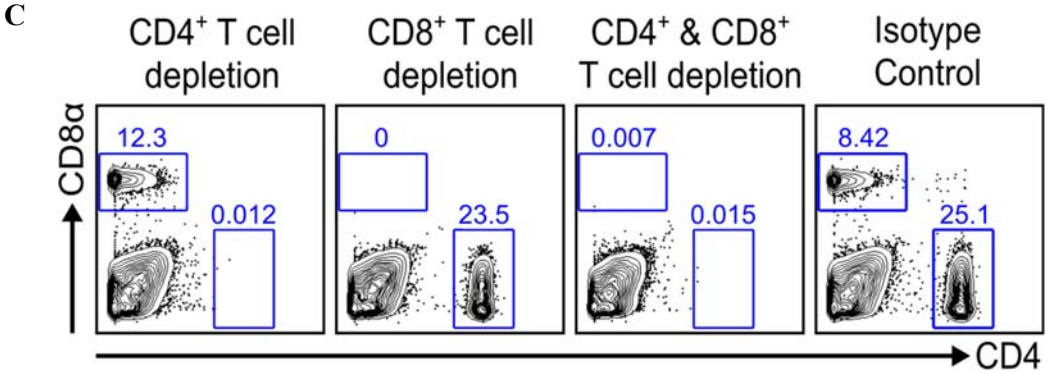
Fig. S6


A
DelNS1
ca-LAIV
PBS
IFNγ
0.0614
0.111
0.0209
Medium only
0.146
0.0932
0.0222
CD4 epitope
CD4


B
DelNS1
ca-LAIV
PBS
IFNγ
0.113
0.0681
0.096
Medium only
0.902
0.751
0.0478
CD8 epitope
CD8


C
CD4+ T cell depletion
CD8+ T cell depletion
CD4+ & CD8+ T cell depletion
Isotype Control
CD8α
12.3
0.012
0
23.5
0.007
0.015
8.42
25.1
CD4

D

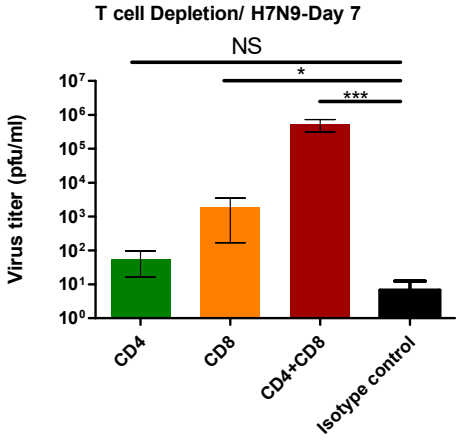


Fig. S6 Depletion of CD4$^+$ and CD8$^+$ T cells from CA4-DelNS1 LAIV immunized mice and virus titers in lungs of mice challenged with H7N9 virus.

Antigen-specific CD4$^+$ (A) and CD8$^+$ (B) T cell responses were estimated after *ex vivo* peptide stimulation of splenocytes from CA4-DelNS1-, ca-LAIV (H1N1) or mock-vaccinated mice (6 each group) by intracellular cytokine staining **(**ICS) and flow cytometric analysis. Number inside the box represents frequency of IFNγ^+ CD4$^+$ or CD8$^+$ T cells. (C) Splenic CD4$^+$ and CD8$^+$ T cell levels in CA4-DelNS1 LAIV vaccinated mice following T cell depletion were measured by intracellular cytokine staining **(**ICS) and flow cytometric analysis. Vaccinated mice were injected intraperitoneally (i.p) with 100 µg of anti-CD8α, anti-CD4, both anti-CD8α and anti-CD4 or isotype control (IgG2b) antibodies on days 17, 19 and 21 after immunization and day three after virus challenge. Number inside the box represents frequency of CD4$^+$ or CD8$^+$ among total lymphocytes analysed. (D) CA4-DelNS1-vaccinated T cell depleted, and control mice were challenged with H7N9 virus (10 MLD_{50}). After 3 days, mice were sacrificed, and lungs collected to determine virus titer by plaque assay. Percentage of either CD4 or CD8 Lung viral titer data represents mean values ± standard deviation from 3 mice. Statistical analysis between means was performed by Student's t-test: *** $p<0.001$, * $p<0.05$, NS: not significant.