

Supporting Information

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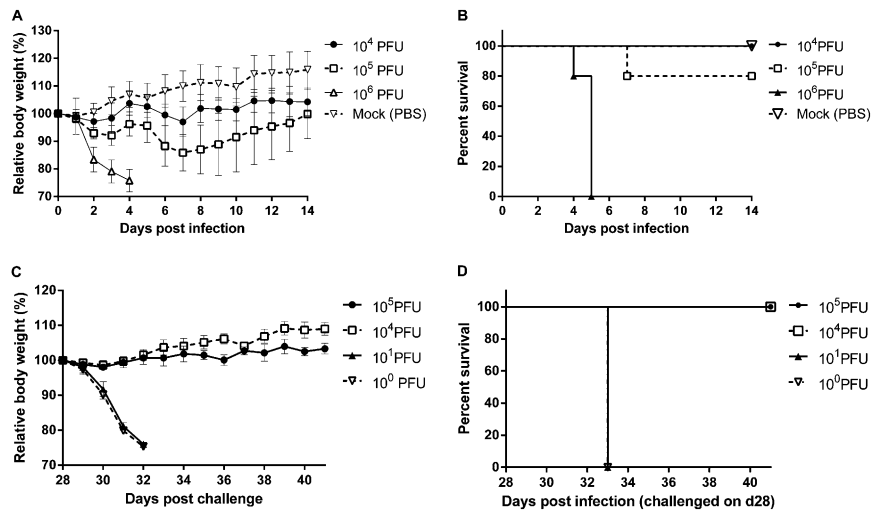


Fig. S1. LD₅₀ and median protective dose (PD₅₀) values of neuraminidase (NA) with minimal gene expression variant (NA^{Min}) in mice. (A and B) Groups of five male BALB/c mice were infected intranasally with different doses of NA^{Min}. Relative body weight (A) and survival rate (B) were monitored for 14 d. The calculated LD₅₀ was 2.4×10^5 plaque-forming units (PFU). (C and D) Groups of five male mice were vaccinated intranasally with different doses of NA^{Min} variant. At 28 d p.i., mice were challenged with 10^5 PFU of WT influenza A/PR/8/34 (PR8), and their relative body weight (C) and survival rate (D) were monitored for 14 d. Error bars represent SD.

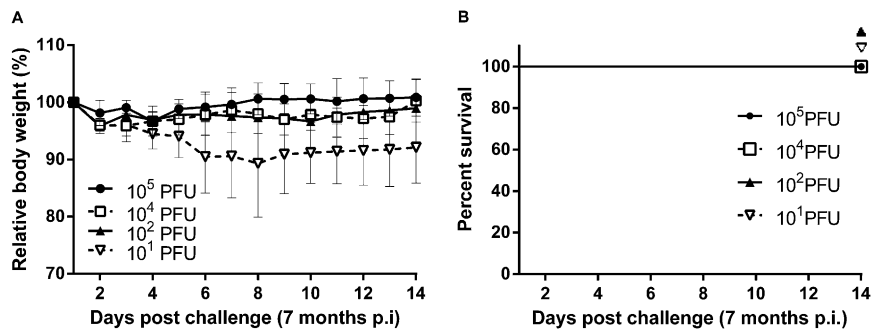


Fig. S2. Long-term protection of NA and hemagglutinin (HA) with minimal gene expression (NA+HA)^{Min}-vaccinated mice. Groups of five BALB/c mice (5-6 wk old) were intranasally vaccinated with (NA+HA)^{Min} at different doses. After 7 mo, the mice were challenged with 10^5 PFU of WT PR8, and body weight (A) and survival rate (B) were monitored for 14 d. Error bars represent SD.