Electronic Supplementary Material

Exploration of A Sequential Gp140-Gp145 Immunization Regimen with Heterologous Envs to Induce A Protective Cross-reactive HIV Neutralizing Antibody Response in Non-human Primates

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**Fig. S1** Validation of DNA and TTV vectored vaccines for immunogen expression. (A) DNA vaccine validation. The indicated DNA constructs were transfected into HEK293T cells and the cells were harvested 48 hrs post transfection for western blotting analysis using serum from HIV-infected individuals. (B) TTV vectored vaccine validation. Vero cells were infected with the indicated TTV vectored vaccines and harvested 48 hrs post infection for western blotting analysis using serum from HIV-infected individuals. GADPH served as the internal control.

**Fig. S2** Measurements of pre-immune sera and immunized sera demonstrated low background of TZM-bl neutralization assay. Pre-immune sera and immunized sera collected 2 weeks after the last immunization from the same rhesus macaques in Fig. 4 were subjected to TZM-bl neutralization assay against murine leukemia virus (SVA-MLV) and VSVG virus. Data are geometric mean ID$_{50}$ titers from two independent experiments.