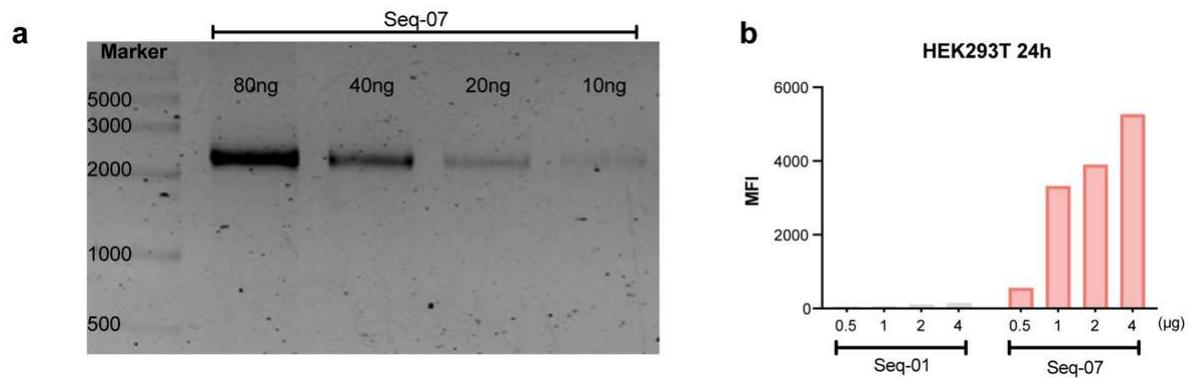


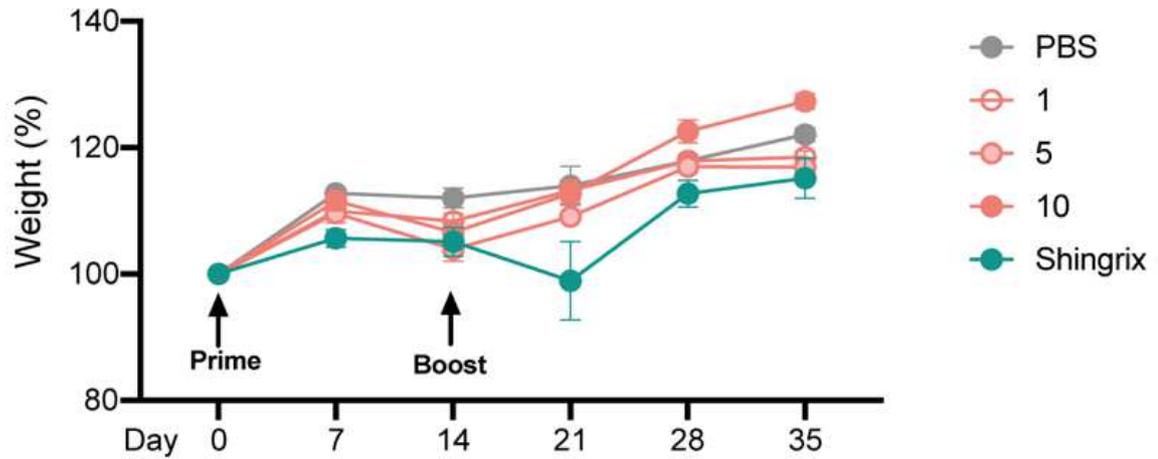
## Supplemental Figure S1



**Figure. S1. Electrophoretic analysis of VZV gE-mRNA synthesized by IVT and its dose-dependent expression during transfection.**

(a) Representative electrophoresis results are shown. (b) The gE mRNAs Seq01 and Seq07 were transfected into HEK-293T at 0.5 μg, 1 μg, 2 μg and 4 μg. Cells were harvested after 24 hours and evaluated for gE antigen expression by flow cytometry.

## Supplemental Figure S2



**Figure. S2. Monitoring of body weight following vaccination.**

C57BL/6 mice were i.m. immunized with escalating doses of Vac07 or 0.1 human dose of Shingrix on day 0 and day 14 with PBS-injected mice serving as controls. Body weight was monitored, and percentage of weight change is shown.

### Supplemental Table S1

Table S1. List of anti-mouse antibodies used for FACS analysis

<b>Antibody</b>	<b>Clone</b>	<b>Manufacturer</b>
IgM	RMM-1	Biolegend
IgD	11-26c.2a	Biolegend
CD45R/B220	RA3-6B2	Biolegend
CD19	6D5	Biolegend
CD3	17A2	Biolegend
CD4	GK1.5	Biolegend
CD44	IM7	Biolegend
CD62L	MEL-14	Biolegend
IFN- $\gamma$	XMG1.2	Biolegend
TNF	MP6-XT22	Biolegend
IL-2	JES6-5H4	Biolegend
IL-21	mhalx21	Invitrogen
CD4	RM4-5	Biolegend
CXCR5	L138D7	Biolegend
PD1	29F.1A12	Biolegend
ICOS	C398.4A	Biolegend
OX40	OX-86	Biolegend
CD137	17B5	Biolegend