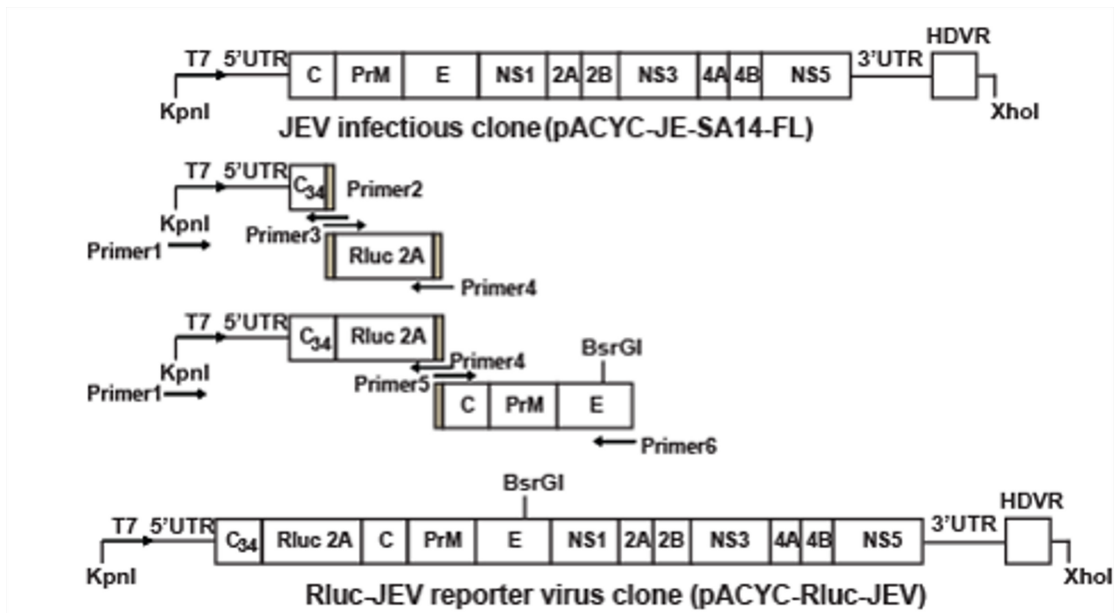
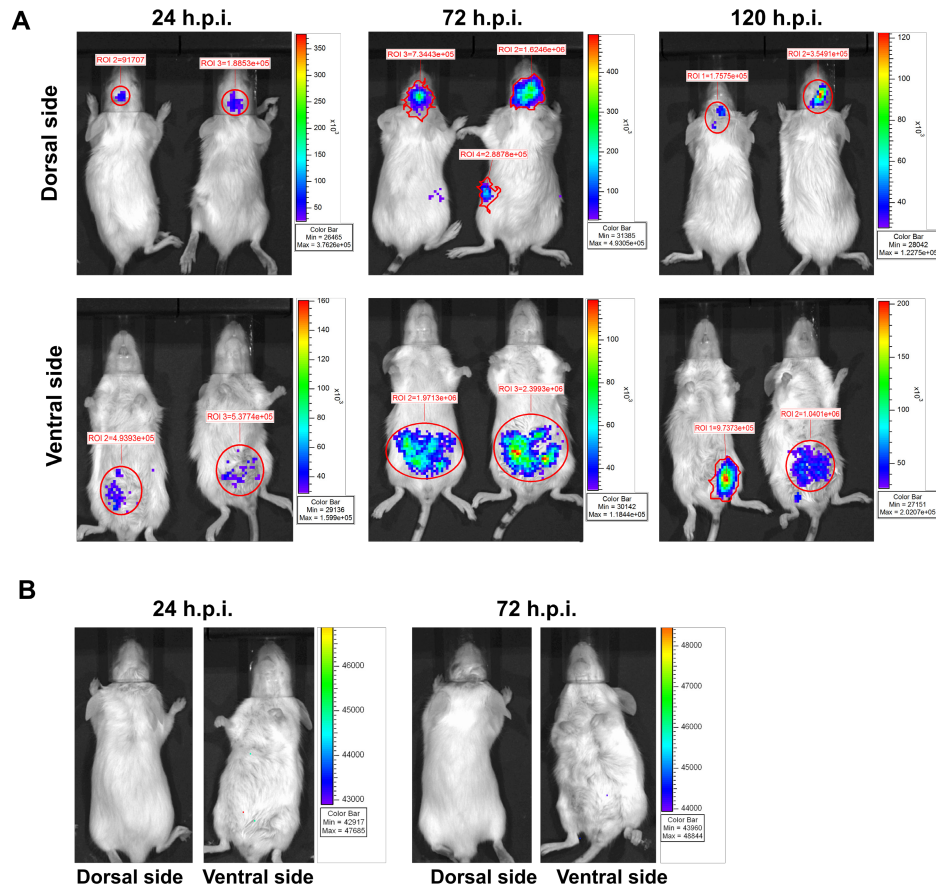


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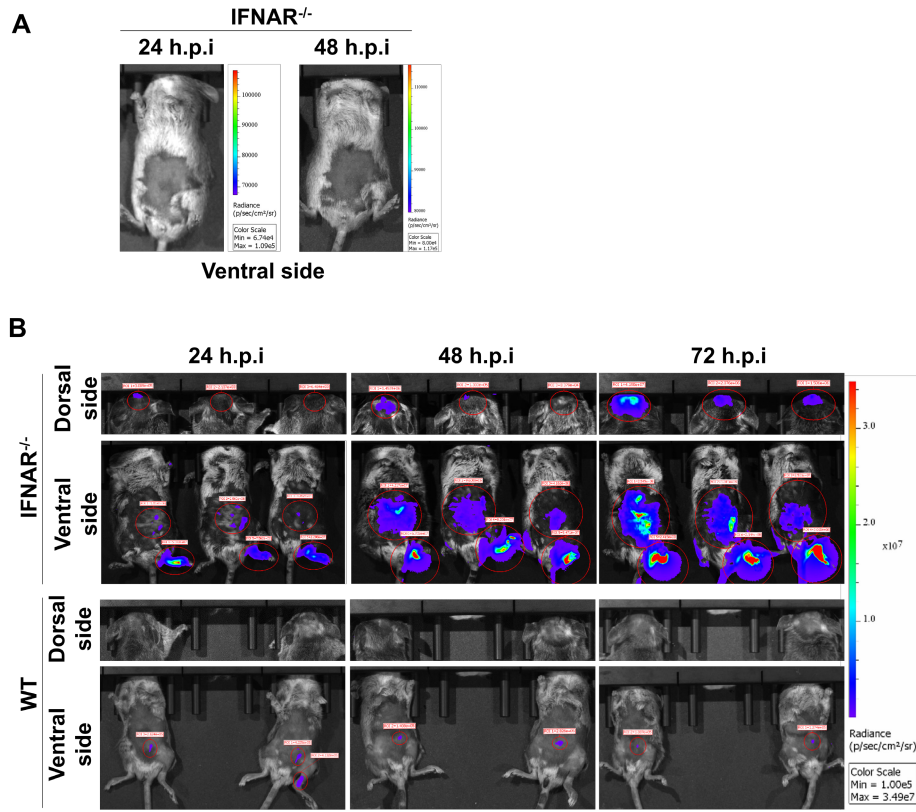
10 **Figure S1. Schematic of construction of the genomic-length Rluc-JEV cDNA**
11 **clone.** Strategy for the construction of the infectious cDNA clone of the reporter virus.

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23 **Figure S2. Noninvasive imaging to monitor JEV replication in BALB/c mice.** BLI
24 of JEV infection in BALB/c mice. Groups of 3-4-week-old BALB/c mice were
25 inoculated i.p. with 10^7 PFU of Rluc-JEV (A) or parental JEV (B). Photon flux was
26 quantified from ROI analysis of the dorsal and ventral side.

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45 **Figure S3. Noninvasive imaging to monitor JEV replication in IFNAR^{-/-} and WT**
46 **mice.** Groups of 3-4-week-old IFNAR^{-/-} and WT mice were inoculated via footpad
47 with 10⁶ PFU of parental JEV (A) or Rluc-JEV (B). Photon flux was quantified from
48 ROI analysis of the dorsal or ventral side.

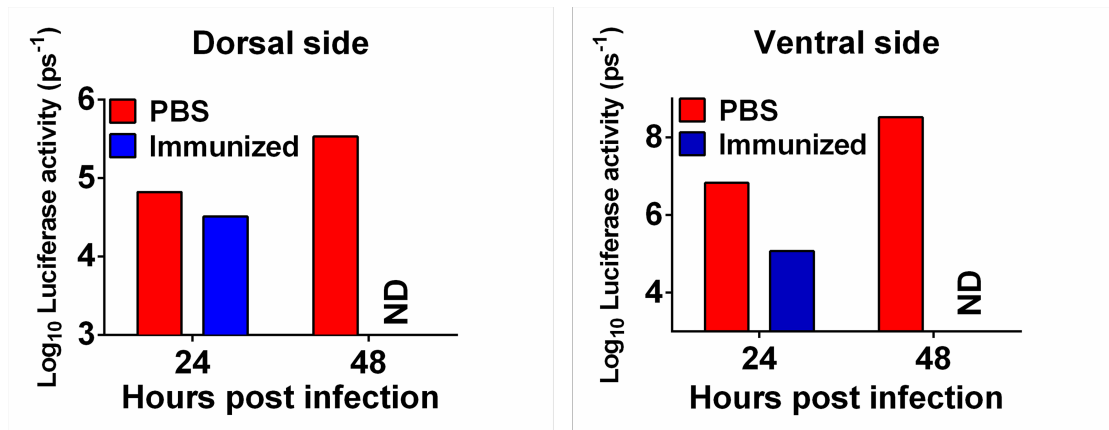
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54 **Figure S4. BLI of the immunized IFNAR^{-/-} mice challenged with Rluc-JEV.**

55 Group of IFNAR^{-/-} mice were immunized and challenged as described in legend to

56 Fig. 8. BLI of the challenged mice was performed at indicated time points.

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59 Table S1 Oligonucleotide primers used for construction of the reporter virus

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Primer		Sequence(5'-3')
Primer 1	Kpn1 (T7)-F	CGCTTATAA <u>agg</u> taC <u>TAATAC</u> GA ^{CT} CAC
Primer 2	SA14-C34-Rluc-2A-R	CTTGGAAAGCCATtactaccctcttca ^{ct} cccac
Primer 3	SA14-C34-Rluc-2A-F	gagggtagtaATGGCTTCCAAGGTGTACGAC C
Primer 4	Rluc-2A-SA14-C-R	ggtttttagtCATTGGCCCAGGGTTGGACTCG AC
Primer 5	Rluc-2A-SA14-C-F	CCCTGGGCCAATGactaaaaaaccaggagg
Primer 6	JEV-SA14-2477-R	AGCATGCACATTGGTCGCTAAG

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