## **1** Supporting Materials and Methods

## 2 Plasmids construction

3 Construction of the infectious clone pCMV-SFV-F3A: The PCR product derived from primers 1 and 2 (Table S3) and the PCR product derived from primers 3 and 4 were fused 4 5 by a one-step PCR in a molar ratio of 1:1. The DNA was denatured and annealed at 46°C 6 for 2 min. These partially double-stranded molecules were made fully double stranded by 7 extension at 72°C for 3 min. The fusion DNA was then amplified by using primer 1 and 4 8 for 25 cycles of PCR consisting of treatment at 95°C for 30 s, 69°C for 30 s, and 72°C for 9 2 min, followed by a final extension at 72°C for 5 min. The derived PCR product was 10 purified and subcloned into pTZ57R/T plasmid (Thermo Scientific). The resulting 11 pTZ57R/T-F3A plasmid was digested with XhoI and BglII and religated to the similar 12 digested pCMV-SFV4 vector (Ulper et al., 2008). The presence of mutations was 13 confirmed by sequencing. 14 Construction of pEGFP-G3BP-F33W and -F124W: The PCR product derived from 15 primers 5 and 6 (F33W) or primers 5 and 7 (F124W) and the product derived from 16 primers 8 and 10 (F33W) or primers 9 and 10 (F124W) were fused by a one-step PCR in 17 a molar ratio of 1:1. The DNA was denatured and annealed at 33°C for 2 min. These 18 partially double-stranded molecules were made fully double stranded by extension at 19 72°C for 3 min. The fusion DNAs containing the F33W mutation or F124W mutation 20 were then amplified by using primers 5 and 10 for 25 cycles of PCR consisting of 21 treatment at 95°C for 30 s, 56°C for 30 s, and 72°C for 2 min, followed by a final 22 extension at 72°C for 5 min. The derived PCR product was purified and subcloned into pTZ57R/T plasmid (Thermo Scientific). The resulting pTZ57R/T-G3BP1-F33W, -23 24 F124W plasmid was digested with BgIII and EcoRI and religated to the similar digested 25 pEGFP-C1-G3BP1 vector. The presence of mutations was confirmed by sequencing. 26 27 **Supporting References** 28

- Ulper, L., Sarand, I., Rausalu, K., *et al.* (2008). Construction, properties, and potential
  application of infectious plasmids containing Semliki Forest virus full-length cDNA with
- an inserted intron. J Virol Methods 148, 265-270.
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