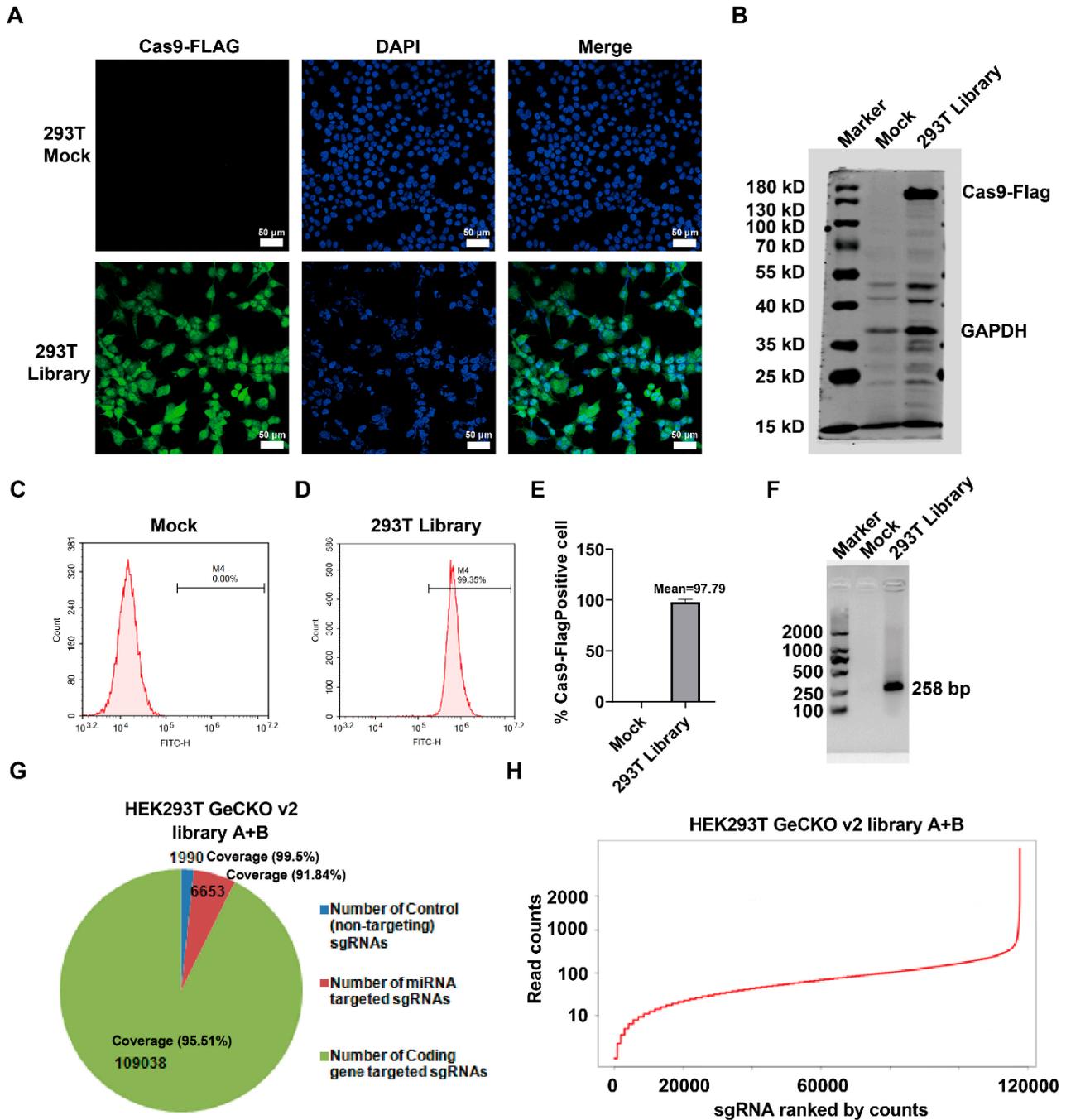


## Supplementary Material



**Supplementary Figure S1. Evaluation of genome-scale CRISPR screening of host factors associated with PEDV infection.** (A) Confocal microscopic images of HEK293T cells and Cas9-Flag-transfected HEK293T cells. Scale bars, 50  $\mu$ m. Data are presented as the mean  $\pm$  SD of at least three independent experiments. (B) Representative Western blot images showing stable expression of Cas9-Flag protein in HEK293T cells compared to control HEK293T cells. (C) FACS analysis of HEK293T

cells without Cas9-Flag transfection. **(D)** FACS analysis of HEK293T cells transfected with Cas9-Flag. **(E)** The proportion of HEK293T cells and Cas9-Flag-transfected HEK293T cells. **(F)** PCR amplification of human GECKO library. **(G)** Pie chart illustrating the amplicon sequencing results from the GECKO library of HEK293T cells. Blue, red, and green colors represent numbers of non-target sgRNAs, miRNA targeted sgRNAs, and coding gene targeted sgRNAs, respectively. **(H)** Line chart depicting the homogeneity of sgRNAs in the GECKO library of HEK293T cells.