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**Supplementary Data**

**Genome-wide transcriptome analysis of porcine epidemic diarrhea virus virulent or avirulent strain-infected porcine small intestinal epithelial cells**

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**Supplementary Fig. S1** Genes expression levels distribution. **A** Boxplots show the distribution of gene expression levels in each sample. **B** Venn diagrams show unique and overlapping DEGs among subgroups with the same virus strain infection at three infection time-points or among subgroups with different strains infection but the same infection time-point. Each circle represents a group of gene sets, and the areas superimposed by different circles represent the intersection of these gene sets. The non-overlapping part indicates the uniquely expressed genes, and the numbers indicate the number of genes in the corresponding area. DEG, differentially expressed gene.

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**Supplementary Fig. S2** Volcano plots of DEGs detected in PEDV-infected IPEC-J2 cells. **A**–**C** Volcano plots of DEGs detected in the cells infected with GDS01 strain for a period of 3, 6, and 12 h. **D**–**F** Volcano plots of DEGs detected in the cells infected with HX strain for a period of 3, 6, and 12 h. The X-axis represents the fold change of the difference after conversion to log2 and the Y-axis represents the significance value after conversion to -log10. Red represents up-regulated DEGs, blue represents DEGs down-regulated DEGs, and gray represents non-DEGs. DEG, differentially expressed gene; PEDV, porcine epidemic diarrhea virus; NC, negative control.

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**Supplementary Fig. S3** Diagram of pCMV-FLAG-IFIT2 overexpression plasmid.