

## Description of Additional Supplementary Files

**File name:** Supplementary Data 1

**Description:** Database of reference human messenger RNAs and SARS-CoV-2 genomes used for mapping reads. Raw count matrices.

**File name:** Supplementary Data 2

**Description:** Expression matrices and transcript levels in uninfected cells.

**File name:** Supplementary Data 3

**Description:** Differential Expressed Gene analysis used in the volcano plots analysis. Datasets and results used in the Gene Ontology analyses. Classification of outliers.

**File name:** Supplementary Data 4

**Description:** Transcriptional profiles for all genes in each cell type.

**File name:** Supplementary Data 5

**Description:** Networks used in the analyses presented in Figs. 5 and 6.

**File name:** Supplementary Data 6

**Description:** Transcriptional analysis of human astrovirus 1 infection in ileum organoids.