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**Supplementary Data**

**EV71 3C protease cleaves host anti-viral factor OAS3 and enhances virus replication**

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**Figure S1**. RNase L activation was examined by agarose electrophoresis of total rRNA of cells. (**A**) The activity of RNase L in the experiment of Figure 1C was measured at corresponding time point upon viral infection. (B) The activity of RNase L in the experiment of Figure 1G was measured at corresponding time point upon viral infection.

Table S1. Primers used for mutation and knockdown in this study.

|  |  |  |
| --- | --- | --- |
| Primer name | Primer direction | Sequence (5'-3') |
| shOAS3 | Forward | CCGGAAGCCACAAGTCTACTCTACCCTCGAGGGTAGAGTAGACTTGTGGCTTTTTTTG |
|  | Reverse | AATTCAAAAAAAGCCACAAGTCTACTCTACCCTCGAGGGTAGAGTAGACTTGTGGCTT |
| OAS3-Q726K | Forward | GCCCTCGGCATGAAGGCCTGCTTCC |
|  | Reverse | GGAAGCAGGCCTTCATGCCGAGGGC |
| OAS3-Q832A | Forward | AGCCAGTTCACTGAAGCGGGCAATAAAAGGGC |
|  | Reverse | GCTTCAGTGAACTGGCTAAAGCAGCTGAGGAA |
| OAS3-Q883A | Forward | CAGACTATGCTCGATGCGAGCGTAGATTTCG |
|  | Reverse | GCATCGAGCATAGTCTGGCTAGTGAGGCTG |
| OAS3-Q982A | Forward | CCTCACTGTCTATGCATGGGAAGCGGGCGGCAAAGATA |
|  | Reverse | GCTTCCCATGCATAGACAGTGAGGAGTTCGAGGCCGTG |
| EV71 3C-H40G | Forward | CGTACTTCCTCGCGCCAGCCAGCCCGG |
|  | Reverse | GCGCGAGGAAGTACGGCCAGGCGGTCG |
| EV71 3C-E71A | Forward | GGGTGTGAACCTTGCGCTGACCCTGATC |
|  | Reverse | GCAAGGTTCACACCCTGCTCGTCCACC |
| EV71 3C-C147G | Forward | CAAAGCAGGCCAGAGCGGCGGCGTG |
|  | Reverse | TCTGGCCTGCTTTGGTGGGGAAGTTG |

Table S2. Primers used for qRT-PCR in this study

|  |  |  |
| --- | --- | --- |
| Primer name | Primer direction | Sequence (5'-3') |
| EV71-RT | Forward | CTTTGTGCGCCTGTTTTATAC |
|  | Reverse | GGAAACAGAAGTGCTTGATCA |
| CA16-RT | Forward | CATGCAGCGCTTGTGCTT |
|  | Reverse | CACACAATTCCCCCGTCTTACT |
| CVB3-RT | Forward | GAATGCGGCTAATCCTAACTGC |
|  | Reverse | GCTCTATTAGTCACCGGATGGC |
| Negative-sense-RT | Forward | TTAAAACAGCCTGTGGGTTG |
| Positive-sense-RT | Reverse | Oligo d(T) |
| OAS3-RT | Forward | GAAGGAGTTCGTAGAGAAGGCG |
|  | Reverse | GCATCTCACTGAGGATCTCTGC |
| GAPDH-RT | Forward  Reverse | TGCACCACCAACTGCTTAGC  GGCATGGACTGTGGTCATGAG |