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**Supplementary Data**

**IFN-β1b induces OAS3 to inhibit EV71 via IFN-β1b/JAK/STAT1 pathway**

**Baisong Zheng, Xiaolei Zhou, Li Tian, Jian Wang, and Wenyan Zhang\***

*Center for Pathogen biology and Infectious diseases, Institute of Virology and AIDS Research, Key laboratory of Organ Regeneration and Transplantation of The Ministry of Education, The First Hospital of Jilin University, Changchun, 130021, China.*

\* Corresponding author.

*E-mail addresses*: zhangwenyan@jlu.edu.cn (W. Zhang)

**Supplementary Table S1** Primers used for mutation and knockdown.

|  |  |  |
| --- | --- | --- |
| Primer name | Primer direction | Sequence (5′–3′) |
| shOAS3 | Forward | CCGGAAGCCACAAGTCTACTCTACCCTCGAGGGTAGAGTAGACTTGTGGCTTTTTTTG |
|  | Reverse | AATTCAAAAAAAGCCACAAGTCTACTCTACCCTCGAGGGTAGAGTAGACTTGTGGCTT |
| RNase L sgRNA | Forward | AAAGGACGAAACACCTGCTCTTATCAAAATCTGCCGTTTTAGAGCTAGAAATAG |
|  | Reverse | TGGTGTTTCGTCCTTTCCACAAGAT |
| OAS3-D816A | Forward | CAGAGGAAGGAGCGCTGCCGATCTCGTCG |
|  | Reverse | GCGCTCCTTCCTCTGAGGGCAGTGCCTTTG |
| OAS3-D818A | Forward | AAGGAGTGATGCCGCTCTCGTCGTCTTCC |
|  | Reverse | GCGGCATCACTCCTTCCCCTGAGGGCAGTG |
| OAS3-D888A | Forward | AGAGTGTCTATTTCGCTGTCCTCCCCGC |
|  | Reverse | GCGAAATAGACACTCTGATCGAGCATAG |
| OAS3-K950A | Forward | TCATCAGGCTCGTCGCACACTGGTATCAGC |
|  | Reverse | GCGACGAGCCTGATGAGACTTTTGAGTTTA |

**Supplementary Table S2** Primers used for RT-qPCR.

|  |  |  |  |
| --- | --- | --- | --- |
| Primer name | Primer direction | | Sequence (5′–3′) |
| EV71-RT | | Forward | CTTTGTGCGCCTGTTTTATAC |
|  | | Reverse | GGAAACAGAAGTGCTTGATCA |
| Negative-sense-RT | | Forward | TTAAAACAGCCTGTGGGTTG |
| Positive-sense-RT | | Reverse | Oligo d(T) |
| OAS3-RT | | Forward | GAAGGAGTTCGTAGAGAAGGCG |
|  | | Reverse | GCATCTCACTGAGGATCTCTGC |
| RNase L-RT | | Forward | AGGAGGATCAAGAGCGGCTGA |
|  | | Reverse | CAAGTGCTTCTTCTCCACTGC |
| MxA-RT | | Forward | AGATAAGTGGAGAGGCAAGG |
|  | | Reverse | CTCCAGGGTGATTAGCTCA |
| ISG15-RT | | Forward | TCCTGGTGAGGAATAACAAGGG |
|  | | Reverse | CTCAGCCAGAACAGGTCGTC |
| IFN-α2b-RT | | Forward | TTGGCTGTGAAGAAATACTTCC |
|  | | Reverse | TTGGCTGTGAAGAAATACTTCC |
| IFN-β1b-RT | | Forward | AAACTCATGAGCAGTCTGCA |
|  | | Reverse | AGGAGATCTTCAGTTTCGGAGG |
| IFN-γ-RT | | Forward | GCAGGTCATTCAGATGTAGC |
|  | | Reverse | TGGCTCTGCATTATTTTTCTG |
| IFN-28A-RT | | Forward | GTTCAAGTCCCTGTCTCCAC |
|  | | Reverse | CCAGAACCTTCAGCGTCA |
| IFN-29-RT | | Forward | TTGAAGCTCGCTAGCTCCT |
| GAPDH-RT | | Reverse  Forward  Reverse | TTGAAGCTCGCTAGCTCCT  TGCACCACCAACTGCTTAGC  GGCATGGACTGTGGTCATGAG |