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**Supplementary Data**

**miR-204 suppresses porcine reproductive and respiratory syndrome virus (PRRSV) replication via inhibiting LC3B-mediated autophagy**

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**Supplementary Table S1** Sequences of NC mimics, miRNA mimics, and siRNAs of LC3B.

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| --- | --- |
| Name | Forward Sequence (5′–3′) |
| negative control (NC) | UUCUCCGAACGUGUCACGUTT |
| miR-204 mimics | UUCCCUUUGUCAUCCUAUGCCU |
| miR-204 mutants | UCUUUCCCGUCAUCCUAUGCCU |
| si-LC3B-1 | UCAAACAGCGCCGAACCUUTT |
| si-LC3B-2  | CCUGUUAGUGAACGGACAUTT |

**Supplementary Table S2** Primers for real-time PCR.

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| --- | --- |
| Primers | Sequence (5′–3′) |
| U6-F | CGCTTCGGCAGCACATATAC |
| U6-R | TTCACGAATTTGCGTGTCATC |
| miR-204-F | CTGCCGTTCCCTTTGTCAT |
| miR-204-R | TATGGTTGTTCTGCTCTCTGTCTC |
| GAPDH-F | CCTTCCGTGTCCCTACTGCCAAC |
| GAPDH-R | GACGCCTGCTTCACCACCTTCT |
| ORF7-F | AATAACAACGGCAAGCAGCA |
| ORF7-R | GCACAGTATGATGCGTCGGC |
| LC3B-F | CGAGAGCAGCATCCTACCAA |
| LC3B-R | CTCACCATGCTATGTCCGTTC |

**Supplementary Table S3** Primers for plasmid construction.

|  |  |
| --- | --- |
| Name | Sequence (5′–3′) |
| LC3B-3′UTR-wt-F | GCTCTAGAGACTAGAAAAATGTATCTGTGCT |
| LC3B-3′UTR-wt-R | GCTCTAGATGGCAACTTAGAATGCAAAG |
| LC3B-3′UTR-mut-F | CGTTGTTACCAACTGAGATTTATC |
| LC3B-3′UTR-mut-R | CATATTTATTCCTTGGTAAGGG |
| ATG7-3′UTR-wt-F | GCTCTAGACCTTCTAATGCCCAGTGGTT |
| ATG7-3′UTR-wt-R | GCTCTAGAACTGTCAAATTTGAGTCAAC |

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**Supplementary Fig. S1.** miR-204 does not target ATG7. **A** Schematic presentation of base pairing between the 3'UTR of ATG7 and miR-204 sequence. TargetScan and miRPathDB were used to predict the targets of miR-204. The gene sequences of ATG7 3′UTRs of different species were obtained from NCBI and analyzed by SnapGene software. The underlined red bases are their paired bases. **B** 3D4/21 cells were co-transfected with ATG7-3′UTR luciferase reporter vector, pRL-TK, and NC or miR-204 mimics for 36 h and then harvested for luciferase reporter assay. ns, not significant.