

## Electronic Supplementary Material

### Analysis of Expression Profiles of Long Noncoding RNAs and mRNAs in A549 Cells Infected with H3N2 Swine Influenza Virus by RNA Sequencing

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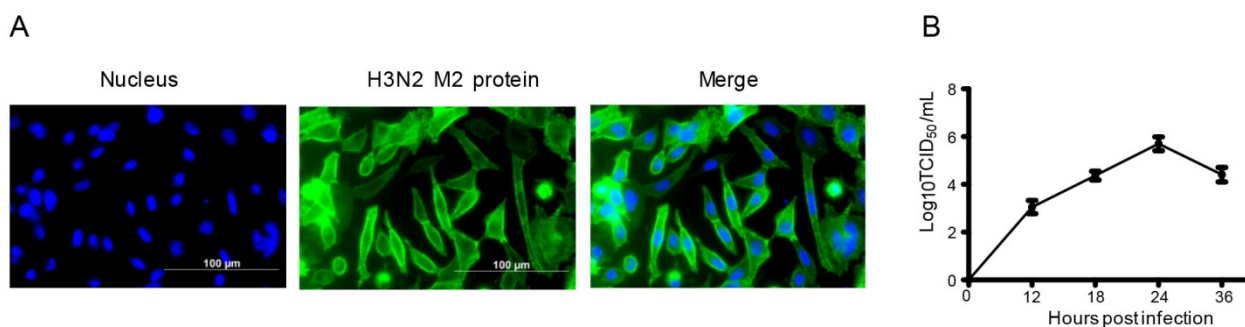


Fig. S1 The replication kinetics of H3N2 viruses in A549 cells with an MOI of 10. (A) Identification of H3N2-infected A549 cells by IFA using a monoclonal antibody to recognize IAV M2 protein. (B) A549 cells were collected at the indicated time points after infection for the determination of replication kinetics of H3N2 virus in A549 cells with an MOI of 10 by TCID<sub>50</sub> assays.

Table S1. Primer sequences used in the study

LncRNAs	Primer sequences (5'-3')
ENST00000441272	Forward: CTACAGCCCACTGCCTCTTC
	Reverse: GAACCTCCCTGGATTGTGGG
ENST00000301683	Forward: TGGTCCCACGGCTTTAGTC
	Reverse: TGGTCCCTTGAGAACTGCC
MSTRG.18148.13	Forward: CGAAGTGCATCTCCATAAACG
	Reverse: GCATGTGTGTACTIONCGGGTCTC
MSTRG.9036.1	Forward: GTTGTACCGTCTGTTTCCACG
	Reverse: ATGGCATGGTTCCAATGTGC
MSTRG.35702.1	Forward: TGGCACTGCTCTTAGCTGAC
	Reverse: GGGAGGTTCTCCAAACCCAG
MSTRG.18149.14	Forward: ACGACGTCTTGAAATGTTGG
	Reverse: GCTCCTCACTGTTCCCGTAG
MSTRG.14746.1	Forward: AACAAGCGGGGTAGTGTCTG
	Reverse: AGGTGCAGTGTGCATCACAGG
ENST00000610408	Forward: GGTGGGGATGCCATAACA
	Reverse: CCAGCATGTGTCCAGCTAGT
MSTRG.11930.8	Forward: TGGCATGCCCAGGATAAGTG
	Reverse: TGTAATGACCTGGGGGTTGC
NRAV-F	Forward: TCACTACTGCCCCAGGATCA
	Reverse: GGTGGTCACAGGACTCATGG
lncRNA-ISG20-F	Forward: GCATCCCGACATTGGTTTA
	Reverse: AGCTGCAGGATCTACTTACAGAC
lncRNA-ACOD1-F	Forward: CAGACTGCAAGGTGACGATGT
	Reverse: GCCTCACAACAAGTGGGTTG
GAPDH	Forward: GTCAGCCGCATCTTCTTTTG
	Reverse: GCGCCCAATACGACCAAATC

Table S2. RNA sequences present in A549-1, A549-2, H3N2-1, and H3N2-2

Sample	Raw reads	Raw bases	Clean reads	Clean bases	Average length	Clean reads( %)	Clean bases( %)	Q30 (%)
A549-1	171019930	25824009430	166678926	22803675522	136.812	97.46	88.30	93.45
A549-2	172506824	26048530424	168157242	22888466454	136.1135	97.48	87.87	93.50
H3N2-1	183156776	27656673176	179049850	24281400208	135.6125	97.76	87.80	93.85
H3N2-2	222407666	33583557566	216990092	29630959370	136.5544	97.56	88.23	93.80

Table S3. Differentially expressed lncRNAs in A549 cells infected with H3N2.

Table S4. Differentially expressed mRNAs in A549 cells infected with H3N2.