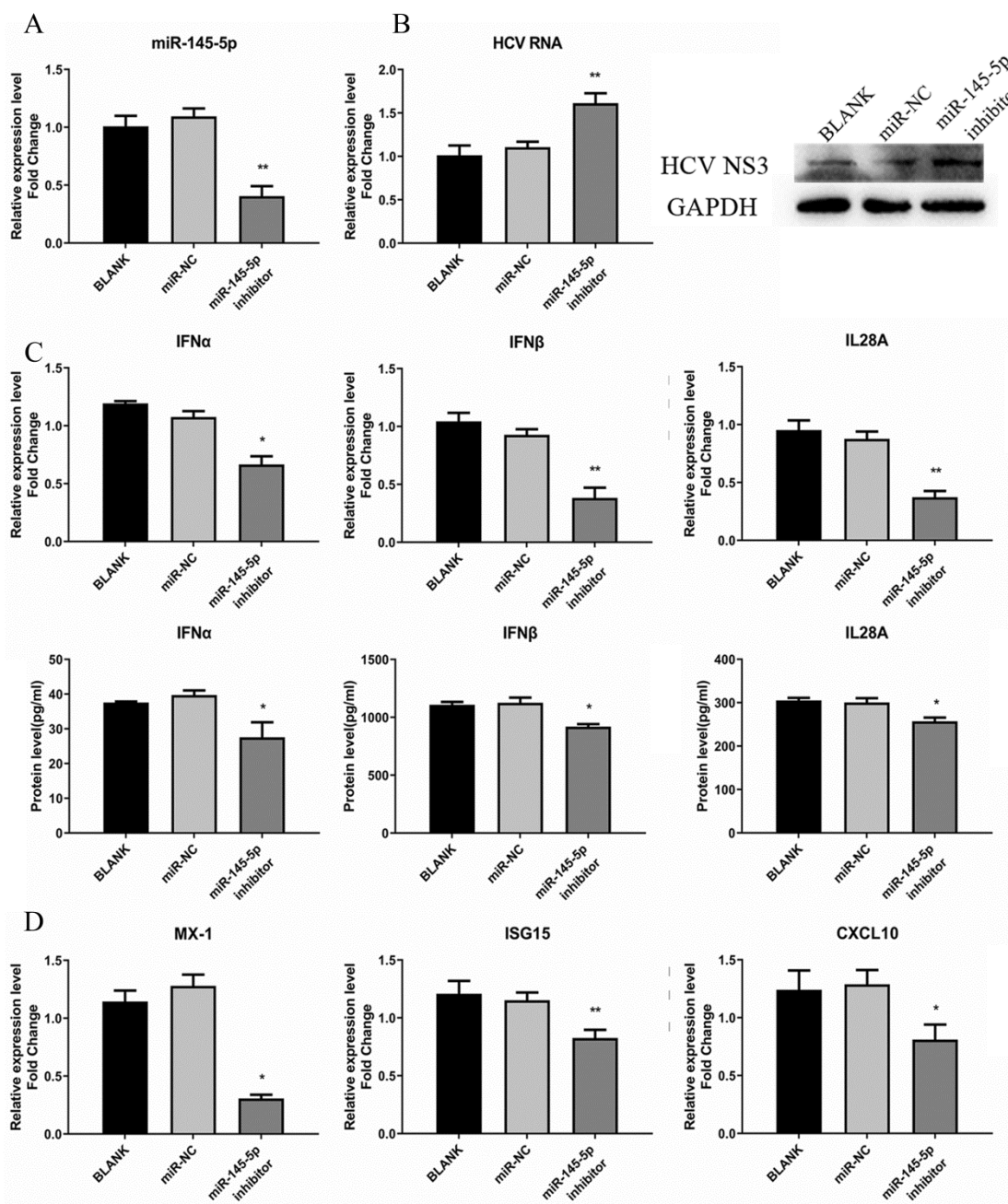


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## Supplementary Materials



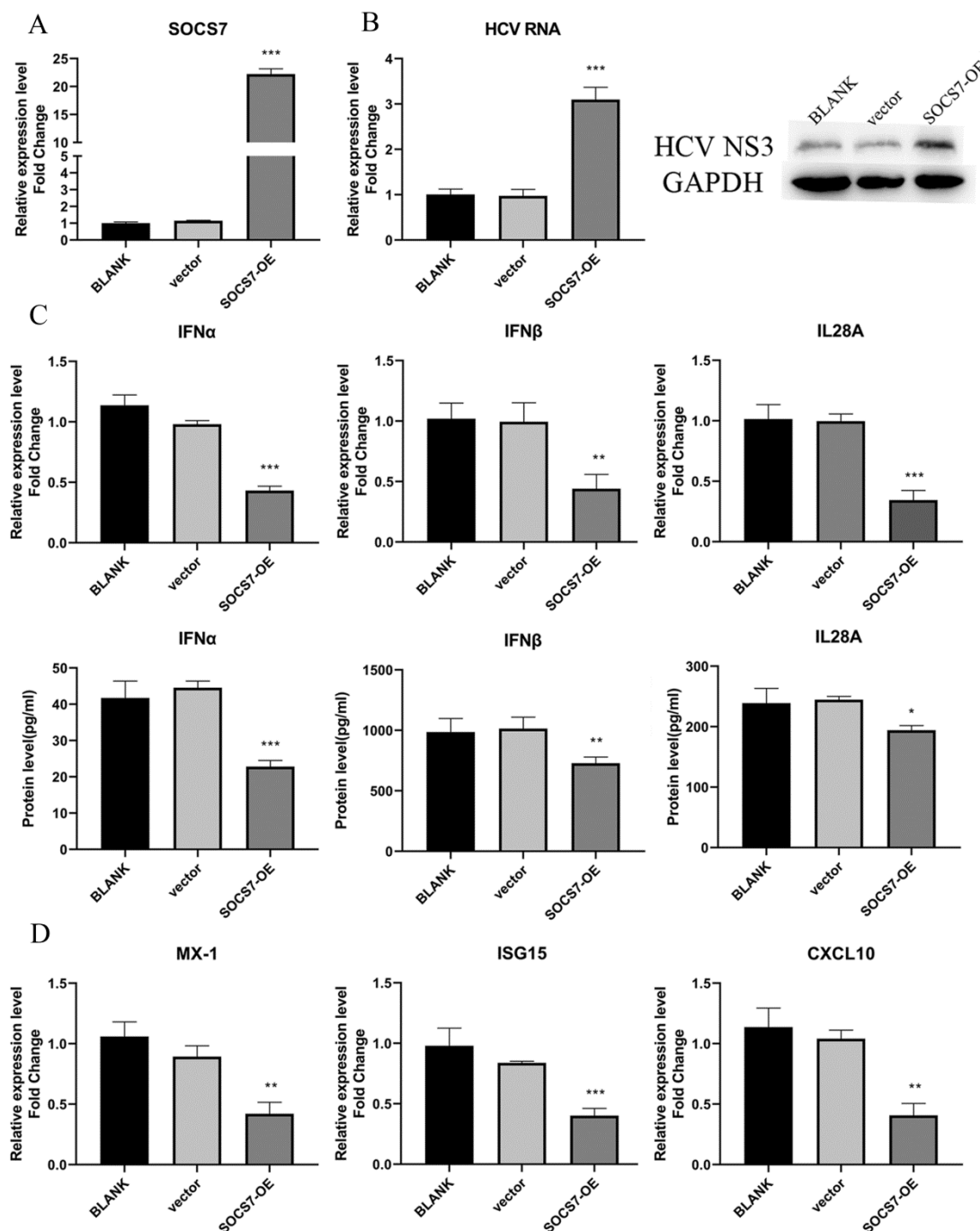
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**Figure S1.** Inhibition of miR-145-5p expression suppressed antiviral response. (A) The expression of miR-145-5p was detected after 48h of transfection with miR-145-5p inhibitor or miR-NC. (B) qRT-PCR and western blot were performed to measure the levels of HCV RNA and NS3 protein. (C, D) Antiviral response was determined by qRT-PCR and ELISA on condition that miR-145-5p expression was inhibited. \*  $P < 0.05$ , \*\*  $P < 0.01$  vs miR-NC.

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**Figure S2.** SOCS7 overexpression inhibited the antiviral response and finally promoted HCV replication. (A) The mRNA level of SOCS7 was quantitated in Huh7.5 cells transfected with SOCS7 overexpression (SOC57-OE) construct pcDNA3.1-SOCS7. (B, C and D) HCV replication and antiviral response were analyzed 48 h after SOCS7 overexpression. \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$  vs vector.

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24**Table S1.** Primers of qRT-PCR

Target Gene	Primer Sequences (5' -3')
GAPDH	F:CTGCCAACGTGTCAGTGGTG R: TCAGTGTAGCCCAGGATGCC
HCV 5'-UTR	F: CGG GAG AGC CAT AGT GG R: AGT ACC ACA AGG CCT TTC G
UCA1	F: CGGGTAACTCTTACGGTGGA R: ATGGGCATGGCTTTATTCTG
miR-145-5p	F: TGTCCTCACGGTCCAGTTTT R: ACCATGACCTCAAGAACAGTATT
SOCS7	F: AAAGTGTGTCGCTTGTGGATG R: GAGGTAGGGGGAAAGACTGC
IFN $\alpha$	F: CAGAGTCACCCATCTCAGCAAGC R: CACCACCAGGACCATCAGTAAAGC
IFN $\beta$	F: GCACAACAGGTAGTAGGCGACAC R: CAATGCGGCGTCCTCCTTCTG
IL28A	F: GCCCTGACGCTGAAGGTTCTG R: GCGGAAGAGGTTGAAGGTGACAG
MX-1	F: TGCATCGACCTCATTGACTC R: ACCTTGCCTCTCCACTTATC
ISG15	F: ACTCATCTTTGCCAGTACAGGAG R: CAGCATCTTCACCGTCAGGTC
CXCL10	F: GTGGCATTCAAGGAGTACCTC R: TGATGGCCTTCGATTCTGGATT

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27**Table S2.** UCA1 probe used in FISH

UCA1 probe: 5'-CY3-ATGGGCATGGCTTTATTCTGGAATGGTGAA-3'

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30**Table S3.** siRNA sequences of UCA1 and SOCS7

siRNA	Sequence(5'-3')
si-UCA1#1	CCATCAGATCCTTGCCCAT
si-UCA1#2	GGTAATGTATCATCGGCTT
si-UCA1#3	GCTAACTGGCACCTTGTTA
si-SOCS7#1	GAGCCTCAGTTTCCGATCA
si-SOCS7#2	GGACCGCTGTCAATCTGTT
si-SOCS7#3	GAGGTATACCTGTCTCTAA

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**Table S4.** Primers of miR-145-5p mimics and inhibitor

Primers	Sequences (5'-3')
hsa-miR-145-5p mimics	F:GUCCAGUUUCCAGGAAUCCCU R:AGGGAUCCUGGGAAAACUGGAC
hsa-miR-145-5p mimics nc	F:UCACAACCUCCUAGAAAGAGUAGA R:UCUACUCUUUCUAGGAGGUUGUGA
hsa-miR-145-5p inhibitor	AGGGAUCCUGGGAAAACUGGAC
hsa-miR-145-5p inhibitor nc	UCUACUCUUUCUAGGAGGUUGUGA

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**Table S5.** Sequences of UCA1-WT/MUT and SOCS7-WT/MUT

Plasmid	Sequences
UCA1-WT	TTCGGGTAACCTTTACGGTGGAGGATTCCCAGCCATATGAAGA CACCCCTAGCTGGACGATCAGTCCTTGTCAAAAGTCTGACCCC TCAAACCTCTACAGCCTCAATGGACCAGACCCTACC
UCA1-MUT	TTCGGGTAACCTTTACGGTGGAGGATTCCCAGCCATATGAAGA CACCCCTAGGATTCGGATCAGTCCTTGTCAAAAGTCTGACCCCT CAAACCTCTACAGCCTCAATGGACCAGACCCTACC
SOCS7-WT	CTCACACCCACCCCTGGGCATCTTAGGACTGGAGGGGCTCCT TGGAAACTGGAGAAGTCTCAAACTGTTTCTTTTCAGAA GTTTTGTTTTTGATATTTATATTACT TGGTATGGAA
SOCS7-MUT	CTCACACCCACCCCTGGGCATCTTAGGACTGGAGGGGCTCCT TGGAAACTGATCAGAAGTCTCAAACTGTTTCTTTTCAGAA GTTTTGTTTTTGATATTTATATTACTTGGTATGGAA

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