

Figure S1

Homology alignment of M-ISR and H-ISR

M-1SR H-1SR ACAACGGGGAAGAAGGAATATGCTGACCAACACTGGCTGGCCATAGCGGGCGGAGAGGGGGCTGAGGCACAGATGACTGTAACTGAAGGGGACGGGCTTGGCTCTCT
TGC CCCCCAGGGGACAGGCCCTACGAGCTAGCTACTACTGTTGAAACCTGGCTCTCTGACAGACGGTACCTTACAGGCTGGAGGGCACTGTAACACTGGAGAGAGGGCAGAGGCC
M-1SR H-1SR TCCCTCTGTGTCTCGAACCCTGAGACTACGCCCTCCGACCTGCCACAGAAGTAGAGGCCGGTGTGAAGCTGGGACATGACCCTCTGCTGCCACAGCATGTCAAAGCCCTCTCTC
M-1SR H-1SR CACTCCCGACGTGCTTGAGATGATGGGTAGTATCTTCACTGCCCTGGTAGAATAGACATAACACAAGGATATGGGAGAGATATTTAAATATCATCAATGCTCAACGATCAT
CAAGAGATATTTAAATCAACCTCGCTCAGGACAGTGTCT
M-1SR H-1SR TTT---CTTTCTCTTCCCGACTATAAATCTAGAAGGGTAGAAATATGGTGAAGAGAAAAAAGAGAAAGCAATACGCTACAGAGAGAAAGCAGAGCTGGTGAGGCTCCAGCT
TTTCTCTCTCTTCCGACTTACAACCTTAGAGAG---AAAAAGAGAGGAGAGAGAGAGAGAGGAGCCCTGCCAACAGGCCAGGG
M-1SR H-1SR GGAAGACAGACGGCGCTGTGGGGTGACCCGAGCTGGGGCACTGCTGGGGCTTCCAGCATCAACTCTGTC---CGGGAATACGGGGGCTCTTTAATTAATAG
AGGAGAGGAGAGG---GTGGGGCAACCCGGGAGCTGGGGAGGCTCCCACTGGGGGGTCCCACTTCAATCTCTGGCCCTTCAAAATCGAGAGCCCTTAGCAATAT
M-1SR H-1SR CAATTTCAGAAATTTTTTTTAAAGAAAGAAATGTATTTTTCTTCTGTACGCTGCTCCCTCCCAAGATTTTTCCCTCTAGCGGCTGTCTGGCATCCGTTTAAATCCAAACATTAAT
CAATTTCAGAAATTTTTTTTAAAGAAATGATCTTTTTTCTAGCTGGCTCCCTTTTTCGACGTTTCTTTTAGCCCGCTCTCTGCATCGCTTTTAATCCAGCAATATTT
M-1SR H-1SR GTAATCCCATTAAGACAGATATAATTTTATTTACTTACCTGAGGTTTCACTCAAGCTATAATAATATACGTGTACTGGCAAACTGAAAAATAAGAGCGGCAATATATTTCTGTAGTTTGTAGAA
GTAATCCCATTAAGACAGATATAATTTTATAGTATTACAGATCTCAAGCTACCAATAATACGTGTACTGCCAATTTTGTTTTTAAAGGCG---ACAACATTTCTGTAGTTTGTAGAA
M-1SR H-1SR TAAACTGTAAACAAAAGACGGAGCTGGAGGGGTACCCATCAGGTCCTACG-AGCAATCCCTCAG-
CAAACTGTAAACAAAAGCACCC-ATGTACAGGGGTACCCGGGGGCTCCCTAGCGAGCGCTGCCCGCAATCTCCCGCGAATCTACCCGGCGGCGCTGGTGAACCTTAGGGCTTAGGGCGCT
M-1SR H-1SR ---GCTCCCGCACTGCCCGACGGTGTGATGATCTCCCGGCGAGTGGGGTTCGCTCGAGAG---ACCGGCTACGGCTACAGAGAGAGAGCTCGGGG---AAGGGACATCAGAG
GTAGCTGCCCTACCTCGACTCTCGGACACTATATCAAGCGACCGGAGAGAGGGCTGCCCTGGAGGCTGGGGCGCTCTGGCAAGCATGTACTCTTCGGCGAGGAGTCAGAG
M-1SR H-1SR TGGGCGCGAACAAGGGGGCTGCCGAGATGATCAGAACACTCGGGTCTCTGTGTTTGAAGCTAAAGCGCAGG GACTCGCTTCACCGA
GGACCCCGAGAGATGCTCTCTGGAGGACGACAGAGCTCTCTCTGTGAGGCTGCTCTCTCTCTGTGAGCAAACTGGCGCGCATCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT
M-1SR H-1SR AATCCCGAGGGGGCGGCGCTCTGAG---TTCGGCGGTGGGAGTGGCG---GTCCGCACTGGGCGACGCTTGTGTGGGCTAGAGGAGATTA
AATCTTGAAGGGCGGCGCGCGCACCCGACCGCGCGCGCGGCTGCCCTCTCCCGGGCGCAGGCTGAGAGAGTGGGCGCACTGTG-CCAGCTTGTAGTCTTGAAGGAGGCTGAGGCT
M-1SR H-1SR CCAAGGCACTGTTAAGGCGACTATCCCTGCAAAACCATCTGCCGCTGACACTCAAGGCTTTATATAGAACAAGATTTTCTGCTTTACACAGAGATTCOCATTAGCGCTG
CCAGAGGCACTGCTTGAAGCAAGTACCTCCG-CAAAACCATCTGCCGCTGACACTTAAAGGCTTTATATAGAACAAGATTTCGCTGTTACACAGAGATTCOCATTAGCGCTG
M-1SR H-1SR CCGGGCGACACTGCTCTCTAATCGGAGGGCGG- GAGCGAGCCTTGGCTCCCTCCCGCGCACACAGCGCTTGTCTTCCGAGAGAGAGCGCTGTGCTGCCAGCGGCGAGCTGCTT
CCGGGCGACACACACTTAATCGGAGGGCGGGGAGTGGTCCCTCCCGCGCACACAGCGCTTGTCTTCCGAGAGAGAGCGCTGTGCTGCCAGCGGCGAGCTGCTT
M-1SR H-1SR AAG AGTCATATCTTTGAATGTGTGCCCACTCAGCCCGAGTGGAGCGGCTCCCGCGACCCCGACATGTGCGACACCCAGACTGGGCTCCGAGAGTCTGGGAGCGCC
ACACTTCTACACTCGCTGGCTGCTCCCGAGCGGAGGACCTGTGTC---CCGACAGAGCTAGAGCGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT
M-1SR H-1SR TCGACGCGACCGGATCACTGGGCGCTAGCGCGAGTGGTGGCTGTCTCCGAGGCGGAGCTTCCGCGGCTTGGCGGGATCACTTAACAAAGGTGGTTTTCGTGTGGCAG
GCACCGGACCGGATCACTTGGGCGGACGCGCGAGTGGCGGCTGTCTCCGAGCGGGAGCTTC---
M-1SR H-1SR CTAGTGGACCTTGAAGGAGCAGACAGCAAGCTAGCTACGCTTCTCGGCTTGGGTCGACGAGACCGGTGCTCGGGTCTTCAGACCCATCTGGAGAGGGCGGGTAAAT
ATGACCTCTCTCTTTTCTTCTACCCCTCCCATCGCGAAGTCTGCTCCCGCGAAATCGGAGACAATTCAACTCTGAGAGGAGCAACCGACAGCAAGAAATAAAGTACACCA
M-1SR H-1SR CCAAGCAGTGTGAGCAAAATCTCTGGCGCTCTCCATTGGAATACCTTCTCTCTTATTTCCGAAATACGATTGTTTAACTCATCTCAGTTTCCATTAGAAATGAGATATTT
M-1SR H-1SR AATCTGGAATTTGACAGCAATCAAACTTTTTTAAAGCACTTCACGCTGACACAAAGGATTAAGAGTGTCTTATTTGCTAAATACAAATTAATTAATTCGATATTTATGCTG
M-1SR H-1SR GTGTCTACAGTGTCTTATTTGACACATTAATTTGTTCTGATTAAATCTAATACGAAAAACAATGTAATTAAGTGAATAGATATTTGCTCAGTGAAGCTTTTAAATTTATTTATG
M-1SR H-1SR GAGAAATTTTGATGTGTAATAAAGGGAATACACAAAGA

Figure S1. Homology alignment of M-ISR and H-ISR (<https://www.genome.jp/tools-bin/clustalw>).

Figure S2

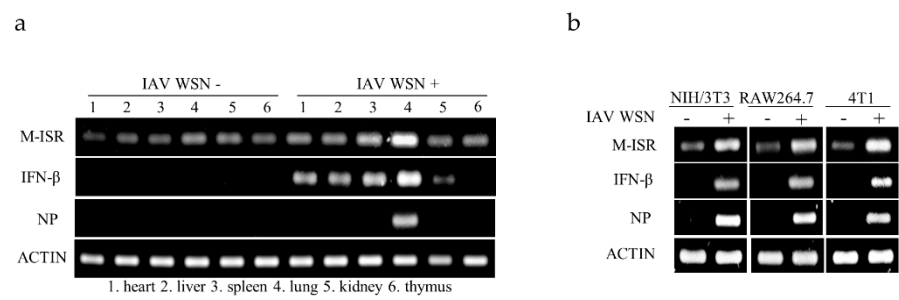


Figure S2. (a) The levels of lncRNA ISR and IFN-β expression in the organs of mice infected with or without IAV WSN for 24 hours were measured by RT-PCR. Lane 1-6: heart, liver, spleen, lung, kidney, and thymus; (b) The levels of lncRNA ISR and IFN-β in indicated mouse cell lines infected with or without IAV WSN (MOI=0.8) for 16 hours were examined by RT-PCR.