

Online supplemental methods

Genotyping of the mutant mice. The genotype of *DNase II*, *IRF3*, *Myd88*, *TRIF*, *TLR3*, and *TLR9* genes was determined by PCR. Primers used for the respective wild-type and mutant alleles were as follows. For DNase II: wild-type sense, 5'-GCCCATCTAGACTAACTTTC-3'; mutant sense, 5'-GATTCGCAGCGCATCGCCTT-3'; and common antisense, 5'-GAGTCTTAGTCCTTGCTCCG-3'. For TLR9: wild-type antisense, 5'-GAAGGTTCTGGGCTCAATGGTCATGTG-3'; mutant antisense, 5'-ATCGCCTCTATGCCTTCTTGACGAG-3'; and common sense, 5'-GCAATGGAAAGGACTGTCCACTTTGTG-3'. For MyD88: wild-type antisense, 5'-GAATCAGTCGCTCTGTTGGAC-3'; mutant antisense, 5'-GATTGCAGCGCATCGCCTT-3'; and common sense, 5'-AGATGATCCGGCAACTAGAAC-3'. For TRIF: wild-type sense, 5'-CAGGACCTCAGCCTCTCATTATT-3'; mutant sense, 5'-CTGTCCACATAGAGGATTCAATTG-3'; and common antisense, 5'-CTAAAGCGCATGCTCCAGACTGCCTTG-3'. For TLR3: wild-type antisense, 5'-GGCGGCCGAAAACATCCTCTAAC-3'; mutant antisense, 5'-ATCGCCTCTATGCCTTCTTGACGAG-3'; and common sense, 5'-TCCAGACAATTGGCAAGTTATCGCCC-3'.

Real-time PCR. Primers used for real-time PCR are as follows.

For IFN β : sense primer, 5'-CCACCACAGCCCTCTCCATCAACTAT-3' and antisense primer, 5'-CAAGTGGAGAGCAGTTGAGGACATC-3'. For IFN γ : sense primer, 5'-CTTGAGCTCTCCTCATGGCTGTTCTG-3', and antisense primer, 5'-TGACGCTTATGTTGCTGATGGCCTG-3'. For CXCL10: sense primer, 5'-CCATCAGCACCATGAACCCAAGT-3', and antisense primer, 5'-

CACTCCAGTTAAGGAGCCCTTTAGACC-3'. For IRF-7: sense primer, 5'-
CTGGAGCCATGGGTATGCA-3', and antisense primer, 5'-
AAGCACAAAGCCGAGACTGCT-3'. For ISG15: sense primer, 5'-
TGGGACCTAAAGGTGAAGATGCTG-3', and antisense primer, 5'-
TCAGGCGCAAATGCTTGATCAC-3'. For 2'5'-OAS: sense primer, 5'-
GAGGTTCAGCATGAGAGACGTT-3', and antisense primer, 5'-
ACACAGTTGGTACCAGTGCTTG-3'. For TNF α : sense primer, 5'-
CACAGAAAGCATGATCCGCGACGT-3', and antisense primer, 5'-
CGGCAGAGAGGAGGTTGACTTCT-3'. For β -actin: sense primer, 5'-
TGTGATGGTGGGAATGGGTCA-3', and antisense primer, 5'-
TTTGATGTCACGCACGATTCC-3'. And for F4/80: sense primer, 5'-
AATACTACATGCACCTGCA-3', and antisense primer, 5'-
GCAAGGAGGACAGAGTTAT-3'.