Figure S1

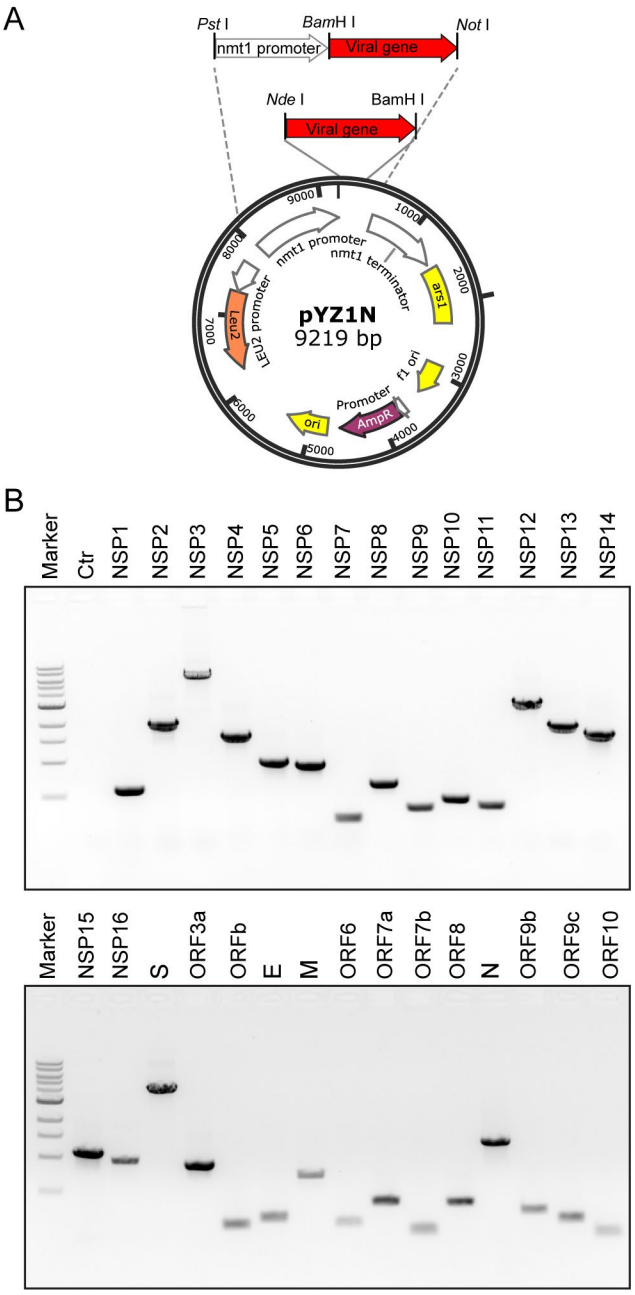
A
Pst I
BamH I
Not I
nmt1 promoter
Viral gene
Nde I
BamH I
Viral gene
pYZ1N
9219 bp
nmt1 promoter
nmt1 terminator
Leu2 promoter
Leu2
ars1
F1 ori
Promoter
AmpR
ori
1000
2000
3000
4000
5000
6000
7000
8000
9000
B
Marker
Ctr
NSP1
NSP2
NSP3
NSP4
NSP5
NSP6
NSP7
NSP8
NSP9
NSP10
NSP11
NSP12
NSP13
NSP14
Marker
NSP15
NSP16
S
ORF3a
ORFb
E
M
ORF6
ORF7a
ORF7b
ORF8
N
ORF9b
ORF9c
ORF10

Figure S2

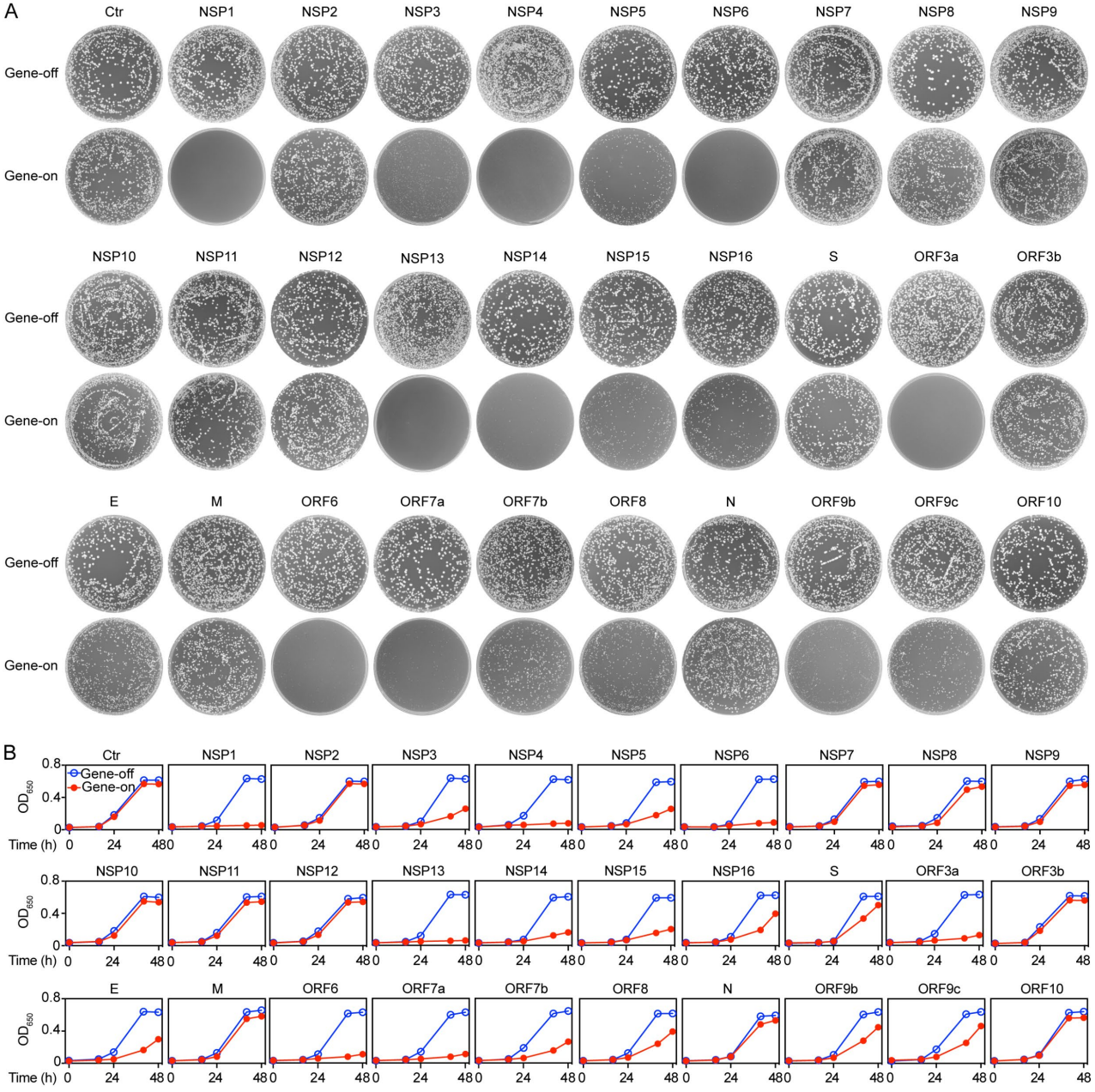
A
Ctr
NSP1
NSP2
NSP3
NSP4
NSP5
NSP6
NSP7
NSP8
NSP9
Gene-off
Gene-on
NSP10
NSP11
NSP12
NSP13
NSP14
NSP15
NSP16
S
ORF3a
ORF3b
E
M
ORF6
ORF7a
ORF7b
ORF8
N
ORF9b
ORF9c
ORF10
B
Gene-off
Gene-on
OD650
Time (h)
0
24
48
0.8
0.4

Figure S3

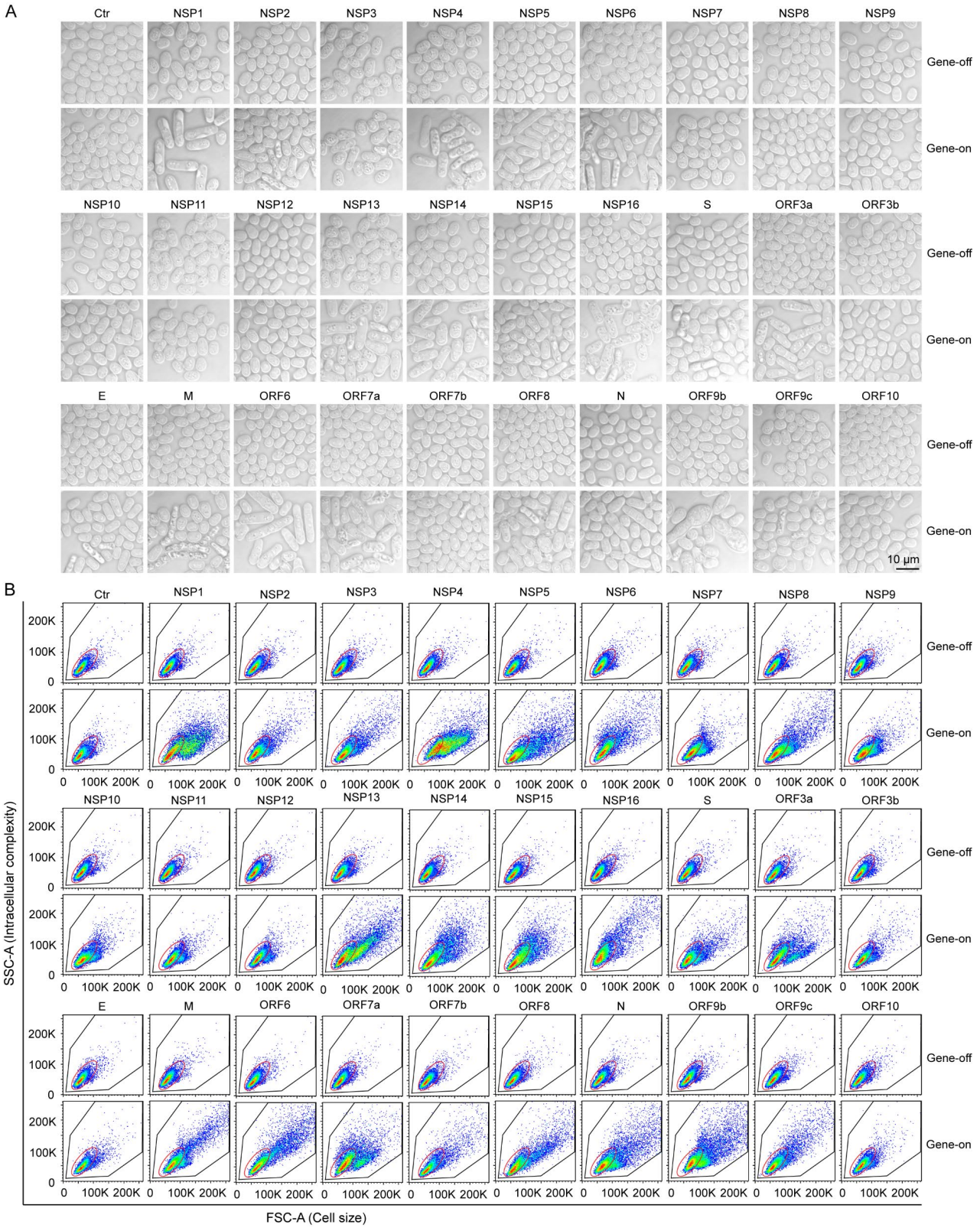
A
Ctr
NSP1
NSP2
NSP3
NSP4
NSP5
NSP6
NSP7
NSP8
NSP9
NSP10
NSP11
NSP12
NSP13
NSP14
NSP15
NSP16
S
ORF3a
ORF3b
E
M
ORF6
ORF7a
ORF7b
ORF8
N
ORF9b
ORF9c
ORF10
Gene-off
Gene-on
10 μm
B
SSC-A (Intracellular complexity)
FSC-A (Cell size)
200K
100K
0
100K 200K

Figure S4

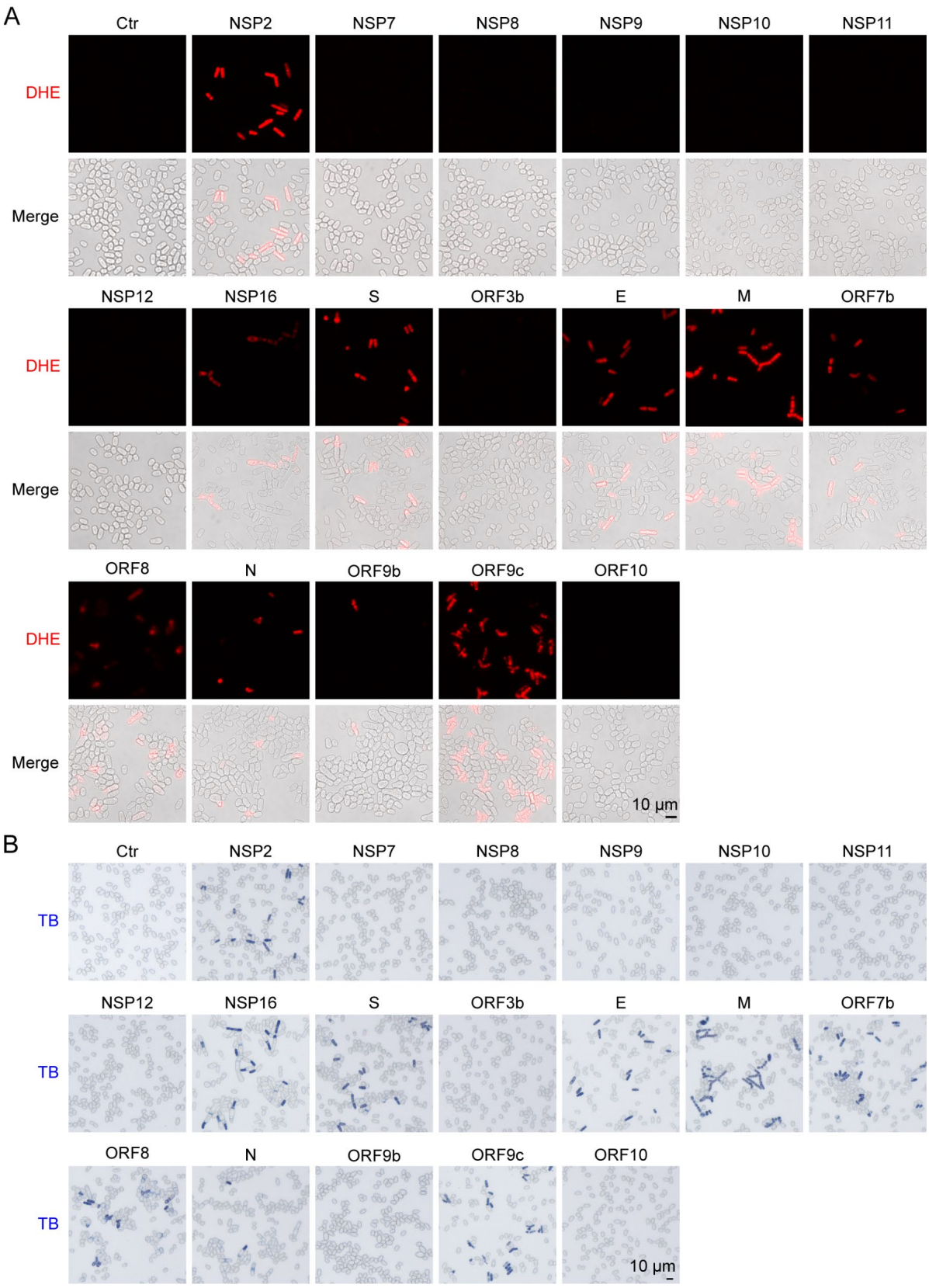
A
Ctr
NSP2
NSP7
NSP8
NSP9
NSP10
NSP11
DHE
Merge
NSP12
NSP16
S
ORF3b
E
M
ORF7b
DHE
Merge
ORF8
N
ORF9b
ORF9c
ORF10
DHE
Merge
10 μm
B
Ctr
NSP2
NSP7
NSP8
NSP9
NSP10
NSP11
TB
NSP12
NSP16
S
ORF3b
E
M
ORF7b
TB
ORF8
N
ORF9b
ORF9c
ORF10
TB
10 μm

Table S1. Primers used for gene cloning in this study.

Name	Sequence (5' to 3')
NSP1-F	CTCG*CATATG*GAGAGTCTTGTACCCGGCTTTAAC
NSP1-R	TCGC*GGATCC***TTA**GCCGCCGTTCAGTTCGCGCATC
NSP2-F	CTCG*CATATG*GCCTACACGCGATATGTTGAC
NSP2-R	TCGC*GGATCC***TTA**GCCGCCCTTAAGGGTAAAGGTG
NSP3-F	CTCG*CATATG*GCCCCTACCAAGGTGACCTTCG
NSP3-R	TCGC*AGATCT***TTA**TCCGCCCTTCAGGGCGATCTTGG
NSP4-F	CTCG*CATATG*AAGATTGTAAACAATTGGCTTAAAC
NSP4-R	TCGC*GGATCC***TTA**CTGGAGTACGGCTGAGGTTATG
NSP5-F	CTCG*GGATCC*ATGTCTGGTTTTAGGAAAATGGCGTTC
NSP5-R	CTGTC*GCGGCCGC***TTA**CTGGAAAGTGACCCCACTGCA
NSP6-F	CTCG*CATATG*AGCGCGGTTAAACGGACCATAA
NSP6-R	TCGC*GGATCC***TTA**CTGAACAGTCGCTACTTTAATACAAG
NSP7-F	CTCG*CATATG*AGCAAGATGAGCGACGTAAAATG
NSP7-R	TCGC*GGATCC***TTA**CTGCAATGTCGCCCGGTTGTC
NSP8-F	CTCG*CATATG*GCAATCGCATCTGAATTTTCTAGTC
NSP8-R	TCGC*GGATCC***TTA**CTGCAGTTTGACTGCGCTGTTAG
NSP9-F	CTCG*CATATG*AATAATGAGCTTTCTCCGGTTGC
NSP9-R	TCGC*GGATCC***TTA**TTGGAGTCGCACGGTCGCAGC
NSP10-F	CTCG*CATATG*GCTGGTAATGCAACTGAGGTTC
NSP10-R	TCGC*GGATCC***TTA**CTGCAACATCGGCTCTCGCAATT
NSP11-F	T**ATG**TCAGCCGATGCGCAGTCTTTCTTGAACGGTTTCGCCGTG**TAA***G*
NSP11-R	GATCC**TTA**CACGGCGAAACCGTTCAAGAAAGACTGCGCATCGGCTGA**CA**
NSP12-F	CTCG*GGATCC***ATG**TCAGCAGACGCACAAAGTTTTC
NSP12-R	CTGTCGCGGCCGC**TTA**CTGCAGGACGGTGTGAGGCGTAT
NSP13-F	CTCG*CATATG*GCTGTTGGGGCGTGTGTGTTG
NSP13-R	TCGC*GGATCC***TTA**TTGAAGCGTCGCAACGTTCCT
NSP14-F	CTCG*GGATCC***ATG**GCTGAAAATGTAACGGGCTTG
NSP14-R	CTGTCGCGGCCGC**TTA**CTGCAATCGGGTAAATGTGTTC
NSP15-F	CTCG*GGATCC***ATG**AGTCTTGAAAACGTCGCCTTC
NSP15-R	CTGTCGCGGCCGC**TTA**TTGCAACTTTGGATAGAAGGTCTC
NSP16-F	CTCG*CATATG*TCTTCCCAGGCTTGGCAGCCTG
NSP16-R	TCGC*GGATCC***TTA**GTTGTTCACCAGCACGTCAGAGG
S-F	CTCG*GGATCC***ATG**TTTGTTTTCTTGGTTCTTTTGCCAC
S-R	CTGTCGCGGCCGC**TTA**CGTGTAGTGCAATTTTACGCC
ORF3a-F	CTCG*CATATG*GACCTTTTTATGAGAATCTTTACCATC
ORF3a-R	TCGC*GGATCC***TTA**CAGGGGCACAGATGTGGTCGT
ORF3b-F	CTCG*CATATG*GCATACTGCTGGAGATGCACAAG

ORF3b-R	TCGC*GGATCC***TTA**CGGCCAGCAGCATCGAGCGAAAG
E-F	CTCG*CAT**ATG***TACAGCTTCGTATCAGAAGAAACCG
E-R	TCGC*GGATCC***TTA**AACGAGGAGATCCGGCACCCTG
M-F	CTCG*CAT**ATG***GCCGACTCAAATGGGACCATTAC
M-R	TCGC*GGATCC***TTA**CTGGACGAGCAAAGCAATGTTATC
ORF6-F	CTCG*CAT**ATG***TTTCATCTTGTCGATTTTCAAGTTACG
ORF6-R	TCGC*GGATCC***TTA**GTCTATTTCCATAGGCTGCTCC
ORF7a-F	CTCG*CAT**ATG***AAGATCATTTTGTTTCTGGCCCTC
ORF7a-R	TCGC*GGATCC***TTA**CTCAGTCTTTCTTTTCAGTGTAAAGC
ORF7b-F	CTCG*CAT**ATG***ATTGAGCTGTCTCTCATCGATTTCT
ORF7b-R	TCGC*GGATCC***TTA**GGCGTGGCATGTCTCGTTATG
ORF8-F	CTCG*CAT**ATG***AAGTTTCTCGTGTTCTTGGGC
ORF8-R	TCGC*GGATCC***TTA**TATAAAGTCAAGGACCACCCTGAC
N-F	CTCG*GGATCC***ATG**AGCGATAACGGCCCCCAAAAC
N-R	CTGTC*GCGGCCGC***TTA**CGCCTGAGTAGAATCGGCTGAG
ORF9b-F	CTCG*CAT**ATG***GACCCCAAAATTTCTGAAATGCACC
ORF9b-R	TCGC*GGATCC***TTA**CTTTACGGTTACTACCACAAATTCG
ORF9c-F	CTCG*CAT**ATG***CTTCAATCCTGCTATAACTTCTTG
ORF9c-R	TCGC*GGATCC***TTA**ATCCGTAAGACAGCAGCACAAC
ORF10-F	CTCG*CAT**ATG***GGCTACATCAATGTCTTCGCCTT
ORF10-R	TCGC*GGATCC***TTA**TGTGAGATTGAAGTTTACAACATCG
Pro_{nmt1}-F	CATGC*CTGCAG*GTCGATCGACTCTAGAGGATCAG
Pro_{nmt1}-R	GGCG*GGATCC*ATTTAACAAAGCGACTATAAGTCAG
Sequencing-F	TTCAATCTCATTCTCACTTTCTG
Sequencing-R	TGGGCTTCCATAGTTTGAAAGA
ORF3a-F	gtgtcgtgaggatctatttccggtgaattcgccgccaccATGGATTTGTTTATGAGAATC
ORF3a-R	gaattgtggatggctccatcccccgccgccCtcgagCAAAGGCACGCTAGTAGTCG
Q57H-F	CACTTCTTGCTGTTTTTCAcAGCGCTTCCAAAATCATAAC
Q57H-R	TTATGATTTTGGAAGCGCTgTGAAAAACAGCAAGAAGTGC
ΔG188-R	CCATTTTTCAGTATAACCAATCTGGTAGTCATGTTC
ΔG188-F	CATGACTACCAGATTGGTTATACTGAAAAATGGGAATCTG

The restriction sites were indicated in *italics* and the start and stop codon were indicated in **bold**. *Nde* I was indicated with red; *Bam*H I was indicated with blue; *Bgl* II was indicated with yellow; *Not* I was indicated orange, *Pst* I was indicated with green.

Table S2. Primers used for real-time PCR in this study.

Name	Sequence (5' to 3')
TNFα-F	CGAGTGACAAGCCTGTAGC
TNFα-R	GGTGTGGGTGAGGAGCACAT
IL-6-F	AATAACCACCCCTGACCCAAC
IL-6-R	AATCTGAGGTGCCCATGCTAC
NFκB-F	GAGCTCCGAGACAGTGACAG
NFκB-R	TCTAGAGGTCCTTCCTGCCC
IFNB1-F	GGCAGTATTCAAGCCTCCCAT
IFNB1-R	TCTCCTGTTGTGCTTCTCCAC
TLR3-F	TCCAGGGTGTTTTCACGCAA
TLR3-R	TGTGGAAGCCAAGCAAAGGA
TLR4-F	TGGAAGTTGAACGAATGGAATG
TLR4-R	ACCAGAACTGCTACAACAGATACT
GAPDH-F	TGCACCACCAACTGCTTAG
GAPDH-R	AGTAGAGGCAGGGATGATGTTC