Table S2. PCR mixture and PCR conditions for self-developed PCR assays

Primers'/Assay's Name		PCR mixture	PCR conditions
Nested PCR for screening on JMV			
Yanggou -OUT -F JMTV-OUT-F Alongshan-OUT -F Yanggou-OUT -R JMTV-OUT -R Alongshan-OUT -R	Multiplex Mix Out	5 µL of cDNA or DNA 0.2 mM each dNTP 9 pmol of each primer 10 µl PCR buffer master mix (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 5 min 95°C for 10 s 52°C for 15 s 35 cycles 72°C for 15 s 72°C for 2 min
JMTV-IN -F Alongshan-IN -F Alongshan-IN-Rev JMTV-IN -Rev Yanggou-IN -Rev	Multiplex Mix In	1 µL of amplicons 0.2 mM each dNTP 9 pmol of each primer 10 µl PCR buffer master mix (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 5 min 95°C for 10 s 56°C for 15 s 35 cycles 72°C for 15 s 72°C for 2 min
PCR for sequencing of 509 bp fragment			
Mos-Seq-F-2380 Mos-Seq-R-2925		5 µL of cDNA or DNA 0.2 mM each dNTP 9 pmol of each primer 10 µl PCR buffer master mix (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 5 min 95°C for 10 s 64°C for 20 s 3 cycles 72°C for 20 s 95°C for 10 s 62°C for 20 s 3 cycles 72°C for 20 s 95°C for 10 s 60°C for 20 s 36 cycles 72°C for 20 s 72°C for 2 min
qPCR assay for the inserted Jingmenvirus polymerase gene and for Yanggou tick virus detection			
IRJV-NS5 -F IRJV-NS5 -Rev IRJV-NS5-Probe IRJV-NS5 -F YANGV-Rev YANGV-Pr		10 µl DNA sample 0.2 mM each dNTP 9 pmol each primer 3 pmol fluorescent probe 0.5 µl TaqF DNA polymerase 5 µl PCR buffer (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 15 min 95°C for 10 s 45 cycles 55°C for 30 s
qPCR assay for the target site* detection			
Ir-3100-F Ir-3100-R Ir-3100-probe		10 µl DNA sample 0.2 mM each dNTP 9 pmol each primer 3 pmol fluorescent probe 0.5 µl TaqF DNA polymerase 5 µl PCR buffer (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 15 min 95°C for 10 s 45 cycles 55°C for 30 s
PCR for obtaining a long amplicon for cloning			
MS-F-875 MS-R-3100		20 µL volumes containing 10 µl DNA sample 9 pmol of each primer 0.3 µl Q5 High-Fidelity DNA Polymerase (New England Biolabs, M0491S) 5 µl Q5 Reaction Buffer Total volume: 20 µl	98°C for 30 s 98°C for 10 s 58°C for 30 s 40 cycles 72°C for 75 s 72°C for 5 min
PCR for clones sequencing			

MS-F-875 MS-R-1810 MS-F-1710 MS-R-2410 Mos-Seq-F-2380 MosSeqTick-R-3100	5 µL of cDNA or DNA 0.2 mM each dNTP 9 pmol of each primer 10 µl PCR buffer master mix (Amplisens, Moscow, Russia) Total volume: 25 µl	95°C for 5 min 95°C for 10 s 58°C for 20 s 72°C for 20 s 72°C for 2 min	42 cycles