

Supplementary Table 1 - PCR primers and thermal profiles used in this work.

Target gene (virus type)	Primer sequence (5'-3')	Thermocycling conditions	Reference
<i>ns5</i> (Flaviviruses)	1 st PCR 1NS5F: GCATCTAYAWCAYNATGGG 1NS5R: CCANACNYNRTTCCANAC	95 °C - 5 min; 45 cycles [95 °C - 1 min; 50 °C - 4 min; 72 °C - 1 min]; 72 °C - 5 min	Vásquez et al., 2012
	2 nd PCR 2NS5F: GCNATNTGGTWAYATGTGG 2NS5R: CATRTCTTCNGTCGTCATCC	Same as above	
<i>nsP4</i> (Alphaviruses)	1 st PCR Alpha1+: GAYGCITAYYTIGAYATGGTIGAIGG Alpha1-: KYTCYTCIGTRTYTTIGTICIGG	94 °C - 2 min; 45 cycles [94 °C - 30 sec; 52 °C - 1 min; 72 °C - 30 sec]; 72 °C - 5 min	Sánchez-Seco et al., 2001
	2 nd PCR Alpha2+: GIAAYTGAAAYGTIACICARATG Alpha2-: GCRAAIARIGCIGCIGCYTYIGGCC	Same as above	
<i>NSs</i> (RVFV)	1 st PCR NSca: CCTTAACCTCTAATCAAC NSng: KYTCYTCIGTRTYTTIGTICIGG	95 °C - 1 min; 45 cycles [95 °C - 30 sec; 55 °C - 1 min; 72 °C - 1 min]; 72 °C - 5 min	Sall et al. et al., 2001
	2 nd PCR NS3a: ATGCTGGGAAGTGATGAGCG NS2g: GATTTGCAGAGTGTCGTC	Same as above	
<i>ORF1</i> (Negev-like viruses)	1 st PCR NegeF: CAYGTRAARATYTTCTGCGAYATGTC NegevinR: TAATCGTTTGTGCGGTARACATTGAGGC	95 °C - 2 min; 45 cycles [95 °C - 30 sec; 55 °C - 30 sec; 72 °C - 1 min]; 72 °C - 5 min	Carapeta et al., 2015
	2 nd PCR NegevinF: AGTGCTTCAACGTGACATTCCTCCCGTCC NegevinR: TAATCGTTTGTGCGGTARACATTGAGGC	Same as above	
<i>ORF1</i> (Loreto-like viruses)	1 st PCR LorF: CGGCAATTTGGAATCGAAGAGGAACTTGTC LorRout: CCACATGAAGGAGGAAGTGTACAACC	95 °C - 2 min; 45 cycles [95 °C - 30 sec; 55 °C - 30 sec; 72 °C - 1 min]; 72 °C - 5 min	Carapeta et al., 2015
	2 nd PCR LorF: CGGCAATTTGGAATCGAAGAGGAACTTGTC LorR: TGTGCGATGAACTTCGATACATTCCGGGTC	Same as above	
<i>ORF1</i> (Denzidougou-like viruses)	1 st PCR DenzF: TAATTTGTGYGTTACYGCTCTKACTMGGCACAC DenzR: ATACGAACYTTRGGATTRCGTTTCAGAGAC	95 °C - 2 min; 45 cycles [95 °C - 30 sec; 55 °C - 30 sec; 72 °C - 1 min]; 72 °C - 5 min	Carapeta et al., 2015
	2 nd PCR		

	DenzF: TAATTTGTGYGTTACYGCTCTKACTMGGCACAC DenzinR: GCKGGAGCAGGAGTGCTCAACMMCGG	Same as above	
<i>L</i> (Phleboviruses)	TBPVL2759F: CAGCATGGIGGICTIAGAGAGAT TBPVL3267R: TGIAGIATSCCYTGCATCAT HRT-GL2759F: CAGCATGGIGGIYTIAGRGAAATYTATGT HRT-GL3276R: GAWGTRWARTGCAGGATICCYTGCATCAT	95 °C - 2 min; 45 cycles [95 °C - 30 sec; 55 °C - 30 sec; 72 °C - 30 sec]; 72 °C - 5 min	Matsuno et al., 2015
<i>L</i> (Orthobunyaviruses)	1 st PCR OrthoF12: TRACTGARCCWTCTMGATATATGATAATGAAAYT OrthoR1: CATCTTGDGCACTCCATTTTGACATRTCHGC	95 °C - 2 min; 45 cycles [95 °C - 30 sec; 53 °C - 45 sec; 72 °C - 45 sec]; 72 °C - 5 min	Silva et al. (2019)
	2 nd PCR OrthoF12: TRACTGARCCWTCTMGATATATGATAATGAAAYT OrthoR2: CATAATRCACATYTTDGCTTCAAATTC	Same as above	
<i>COI</i>	LCO1490: GGTCAACAAATCATAAAGATATTGG HC02198:TAAACTTCAGGGTGACCAAAAAATCA	95 °C - 5 min; 40 cycles [95 °C - 30 sec; 48 °C - 30 sec; 72 °C - 45 sec]; 72 °C - 5 min	Folmer et al., 1994, Cook et al., 2009

I-inosine, K-G or T, M-A or C, N- any base, R-A or G, S-C or G, W-A or T, Y-C or T.