

Table S1. Primers and PCR conditions used for the amplification of the Ribes americanum virus A genome.

Primer Name	Primer sequences	Position in the genome	PCR product size (bp)	PCR conditions
For confirmation of HTS assembly	(+) 5'-TGAGACACAAGAACATGCTGTTGA-3' (-) 5'-TTCCACCCTACTCTCTTGCCT-3'			
RAVAORF1F2		nt 5,539-5,563	979	Initial denaturation at 94°C for 2 min followed by 40 cycles of 94°C-20 s, 54°C-20 s and 72°C-1 min followed by 5 min final extension at 72°C.
RAVAORF5R1		nt 6,495-6,517		
RAVAORF1F3	(+) 5'-TCTGAAGGGTCTGCGTGACAGCTT-3'	nt 5,570-5,593	948	
RAVAORF5R1	(-) 5'-TTCCACCCTACTCTCTTGCCT-3'	nt 6,495-6,517		Initial denaturation at 94°C for 2 min followed by 40 cycles of 94°C-20 s, 52°C-20 s and 72°C-45 s.
RAVAORF1F1	(+) 5'-TTGAAGGAAGTGATCAACAGCTA-3'	nt 5,415-5,437	681	
RAVAORF4R1	(-) 5'-TTGAGTTTAGAGACATCCGCCAT-3'	nt- 6,073-6,095		
RAVAORF4F1	(+) 5'-AACTAGTGATCGTTTCAGCAAAGGT-3'	nt 5,982-6,006	636	
RAVAORF5R2	(-) 5'-AATTGATACATCCGAAGAAACTT-3'	nt 6,595-6,617		
For 5' and 3' RACE				Initial denaturation at 94°C for 2 min followed by 40 cycles of 94°C-20 s, 64°C-20 s and 72°C-1 min.
RLM 5' RACE outer primer	(+) 5'-GCTGATGGCGATGAATGAACACTG-3' (-) 5'-AACTGGCCATATCAAAAACCGTT-3'	nt 560-582	627	
RAVAORF1R1				
RLM 5' RACE outer primer	(+) 5'-GCTGATGGCGATGAATGAACACTG-3' (-) 5'-TAGAAGTTCTCAGGAGAGACAGA-3'	nt 678-700	745	Initial denaturation at 94°C for 2 min followed by 40 cycles of 94°C-20 s, 58°C-20 s and 72°C-1 min.
RAVAORF1R2				
PCR- oligo(dt) primer	(-) 5'-GGCCACGCGTCGACTAGTAC(T18)-3' (+) 5'-TGAGACACAAGAACATGCTGTTGA-3'	nt 5,539-5,563	1606	
RAVAORF1F2				
PCR- oligo(dt) primer	(-) 5'-GGCCACGCGTCGACTAGTAC(T18)-3' (+) 5'-TCTGAAGGGTCTGCGTGACAGCTT-3'	nt 5,570-5,593	1575	Initial denaturation at 94°C for 2 min followed by 40 cycles of 94°C-20 s, 51-58°C-20 s and 72°C-2 min 30 s followed by 5 min final extension at 72°C.
RAVAORF1F3				
PCR- oligo(dt) primer	(-) 5'-GGCCACGCGTCGACTAGTAC(T18)-3' (+) 5'-TGAAAGGCAAGTTGATGCTACA-3'	nt 6,315-6,336	830	
RAVAORF5F1				
Reverse transcription primers	(-)5'-TTGAGGTCTTGAACCTATTGGCCTTA-3' (-)5'-ATCTCACTATGTACCCCATCCGGTGA-3'		nt 860-885 nt 801-826	
RAVA5'R1	(-) 5'-CTACTACTACTAGGCCACGCGTCGACTAGTAC(T18)-3'			
RAVA5'R2				
RT- oligo(dt) primer				

(+)- forward primer, (-)- reverse primer.