

Table 2. Primers used for modifying pT7/NSP1 and pT7/NSP3 vectors.

Primer	Sequence
NSP1-RfUF	AATTATGTCACTATCTAATTATACAGTATTTAGCCATCACAAG
NSP1-RfUR	AATTATGTCACTATCTAATTATACAGTATTTAGCCATCACAAG
RfUF	GAAGATGACAATGAGTCGAAATTTCAAATTGATAAAAATTTAATTT CCGGAGATATCGA
RfUR	GATAGTGACATAATTTCAATCTGTGGCCCTTCTGTAGC
NSP3-RonF	CCATTTTGATACATGTTGAACAATCAAATACAGTGT
NSP3-RonR	TTCGCAACCAAATGAATATTGATAATTACATCTCTGTATTAAT
RonF	ATTCATTTGGTTGCGAAGGCGCCGGCGCAACGAACT
RonR	CATGTATCAAAATGGTCATTCTGTGGCCCTTCTGTAGCT
NSP3-FPF	CCATTTTGATACATGTTGAACAATCAAATACAGTGT
NSP3-FPR	GCTAGCCTTGTCATCGTCATCCT
mRubyF	GATGACAAGGCTAGCGTGTCTAAGGGCGAAGAGCTGA
mRubyR	CATGTATCAAAATGGTACTTGTACAGCTCGTCCATGCC
mKateF	GATGACAAGGCTAGCGTGTCTAAGGGCGAAGAGC
mKateR	CATGTATCAAAATGGTCAATTAAGTTTGTGCCCCAGTTTGC
BFPF	GATGACAAGGCTAGCGTGAGCGAGCTGATTAAGGAGAACA
BFPR	CATGTATCAAAATGGTAAATTAAGCTTGTGCCCCAGTTTGC
NSP3-DbRubF	CGGATCCGGAGCCACG
NSP3-DbRubR	TTCGCAACCAAATGAATATTGATAATTACATCTCTGT
DbRubF	CAATATTCATTTGGTTGCGAAGACTACAAAGACCATGAC
DbRubR	TCGTGGCTCCGGATCCGTTGTACAGCTCGTCCATGCCACC
mtR2AF	TATCGAATTAATTCCTGGAGGAGACTACAAAGACCATGAC
mtR2AR	GTCATGGTCTTTGTAGTCTCCTCCAGGATTAATTCGATA

Table 1. Protein products of recombinant rSA11 strains.

Virus	Genome segment 5				
	RNA size (bp)	Protein Product			
		uncleaved (aa)	2A cleaved (aa)	uncleaved (kDa)	2A cleaved (kDa)
rSA11-wt	1610	496	nd	59	nd
rSA11/NSP1-R2A-UnaG	2156	678	496 + 182	79	59 + 20
rSA11/NSP1-R2A(P/G)-UnaG	21156	678	nd	79	nd

Virus	Genome segment 7				
	RNA size (bp)	Protein Product			
		uncleaved (aa)	2A cleaved (aa)	uncleaved (kDa)	2A cleaved (kDa)
rSA11-wt	1105	315	nd	36	nd
rSA11/NSP3-R2A-UnaG	1651	497	334 + 163	57	39 + 18
rSA11/NSP3-P2A-UnaG	1657	499	336 + 163	57	39 + 18
rSA11/NSP3-P2A-mRuby	1951	597	336 + 261	68	39 + 29
rSA11/NSP3-P2A-mKATE	1951	597	336 + 261	68	39 + 29
rSA11/NSP3-P2A-BPB	1942	594	336 + 258	68	39 + 29
rSA11/NSP3-mRuby-P2A-UnaG	2437	759	596 + 163	86	68 + 18