

**Table S1.** Primers used in this study.

Primer	Sequence(5'-3')	Product(bp)
F-RVC-VP1	TAAAAAAAATGGCGCAGTCC	3306
R-RVC-VP1	AGCCACAATATGCAGTCC	
F-RVC-VP2	CAAATCGTCCAAGATGATAAGC	2713
R-RVC-VP2	CAGAATTTGAGGTCATC	
F-RVC-VP3	AAAAAAGCCCAACACGCAAT	2162
R-RVC-VP3	AGCCACATCATACGGTAGAGG	
F-RVC-VP4	GGATCAATGGCGTCCTCACTTT	2248
R-RVC-VP4	CATAATAAGTCGATCTCCTCAC	
F-RVC-VP6	GCATTTAAAATCTCATTACACA	1352
R-RVC-VP6	AGCCACATAGTTCACATTTCA	
F-RVC-VP7	AGCTGTCTGACAAACTGGT	1045
R-RVC-VP7	AGCCACATGATCTTGTTTAC	
F-RVC-NSP1	AAGAGCTAGGCTTGGAGGTGT	1256
R-RVC-NSP1	GCCACATAGAGTTTAGTC	
F-RVC-NSP2	ATGGCCGAGCTAGCCTGTTTC	973
R-RVC-NSP2	TTCCTGTTGCTTGTAACCTTC	
F-RVC-NSP3	TTGCTGGAAATGGCGACTCA	1315
R-RVC-NSP3	CTGCCATTGACCTTTTACTT	
F-RVC-NSP4	AAATCGCTTTGCTCTACG	527
R-RVC-NSP4	GCTAGAAATGGACAGAATGG	
F-RVC-NSP5	ACAATGTCCGATTTGGAAT	687
R-RVC-NSP5	TCAATGCCGATTCCAGTCA	
F-SADS-N	CAGGTCTTGGTGTTCGCAATCG	449
R-SADS-N	ACCGTGCTGAACGAGGTCCT	
F-TGEV-S	AAGGAAGGGTAAGTTGCTCA	1255
R-TGEV-S	GGTCCATCAGTTACGCCGAA	
F-PORV-VP7	GGCTTTAAAAGAGAGAATTTC	

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R-PORV-VP7	GGTCACATCATACAGTTCTAAC	1062
F-PDCoV-S	GCAACGCCTATTATCTCG	
R-PDCoV-S	ACATGCCATTGTTTACTG	1205

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