Table S1. Well-determined region in Orf1ab region

Region	Window	Start	End	Size	Protein Domain	Median Shannon Entropy
1	1	1	622	622	5'UTR, Nsp1	7.69E-05
2	1	944	1026	83	Nsp2	1.75E-06
3	1	1478	1572	95	Nsp2	2.62E-02
4	1	1968	2188	221	Nsp2	5.07E-04
5	1	2682	2800	119	Nsp3	9.19E-03
6	1	3416	3597	182	Nsp3	5.24E-05
7	1	4169	4232	64	Nsp3	3.01E-06
8	1	4471	4713	243	Nsp3	4.82E-04
9	1	4791	5162	372	Nsp3	4.55E-04
10	1	5693	6013	321	Nsp3	2.07E-03
11	1	6116	6549	434	Nsp3	4.24E-04
12	1	6786	6887	102	Nsp3	4.88E-03
13	1	7025	7072	48	Nsp3	1.06E-03
14	2	7413	7518	106	Nsp3	1.55E-04
15	2	7717	8230	514	Nsp3	1.29E-03
16	2	8350	8512	163	Nsp3	4.90E-04
17	2	8702	8789	88	Nsp4	6.45E-04
18	2	9295	9398	104	Nsp4	2.76E-02
19	2	9612	9886	275	Nsp4	1.70E-02
20	2	10129	10312	184	Nsp5	3.00E-04
21	2	10630	10687	58	Nsp5	3.53E-04
22	2	10798	11039	242	Nsp5, Nsp6	7.67E-04
23	2	11221	11470	250	Nsp6	2.34E-03
24	2	11552	11908	357	Nsp6, Nsp7	2.09E-03
25	2	12230	12686	457	Nsp8	1.86E-03
26	2	12895	13030	136	Nsp9	1.55E-02
27	2	13594	13920	327	Nsp12	7.39E-04
28	2	13993	14230	238	Nsp12	1.19E-02
29	3	14444	14532	89	Nsp12	4.27E-04
30	3	14557	14641	85	Nsp12	1.05E-05
31	3	14973	15136	164	Nsp12	9.07E-04
32	3	15510	15608	99	Nsp12	1.59E-04
33	3	15767	16005	239	Nsp12	4.29E-04
34	3	16114	16260	147	Nsp12	2.69E-03
35	3	17580	17677	98	Nsp13	1.64E-04
36	3	17854	17938	85	Nsp13	6.09E-04
37	3	19373	19550	178	Nsp14	1.52E-02
38	3	19665	19735	71	Nsp15	2.32E-05
39	3	20248	20408	161	Nsp15	7.72E-03
40	3	20668	20792	125	Nsp16	4.91E-06

Table S2. Gene-specific RT primers

Primer Name	**Sequence**
RT_SC2_Amplicon_1	TTTTTTTTTGTCATTCTCC
RT_SC2_Amplicon_2	ATGTTGAGTACATGACTGT
RT_SC2_Amplicon_3	TAACATGTTCAACACCAGT
RT_SC2_Amplicon_4	AATCATTTCATCTGTGAGC
RT_SC2_Amplicon_5	TAATACCTATTGGCAAATC
RT_SC2_Amplicon_6	AACCACCTAACTGACTATG
RT_SC2_Amplicon_7	TAACTCTGGAAAAATCTGT
RT_SC2_Amplicon_8	TAACATTATCGCTACCAAC
RT_SC2_Amplicon_9	TTAGTAAGTGCAGCTACTG
RT_SC2_Amplicon_10	AAGCAGTTTGTGTAGTACC
RT_SC2_Amplicon_11	TATCTAAAACGGCAATTCC
RT_SC2_Amplicon_12	TACCAACTGCACTAAAAAC
RT_SC2_Amplicon_13	AATTAGACATTAAAACACC
RT_SC2_Amplicon_14	AAACATAAAATGTTTTACC
RT_SC2_Amplicon_15	TTTGTTGACTATCATCATC
RT_SC2_Amplicon_16	TTAGTCAAATTCTCAGTGC

Table S3. Gene-specific PCR Primers

R_PCR_SC2_Amplicon_1	TTTTTTGTCATTCTCCTAAGAAG
R_PCR_SC2_Amplicon_2	TTGAGTACATGACTGTAAACTACAT
R_PCR_SC2_Amplicon_3	CATGTTCAACACCAGTGTCTGTA
R_PCR_SC2_Amplicon_4	CATTTCATCTGTGAGCAAAG
R_PCR_SC2_Amplicon_5	TACCTATTGGCAAATCTACCAAT
R_PCR_SC2_Amplicon_6	CACCTAACTGACTATGACTAAAA
R_PCR_SC2_Amplicon_7	CTCTGGAAAAATCTGTATTATTAGG
R_PCR_SC2_Amplicon_8	CATTATCGCTACCAACACATGTA
R_PCR_SC2_Amplicon_9	GTAAGTGCAGCTACTGAAAAGCA
R_PCR_SC2_Amplicon_10	CAGTTTGTGTAGTACCGGCA
R_PCR_SC2_Amplicon_11	CTAAAACGGCAATTCCAGTT
R_PCR_SC2_Amplicon_12	CCAACTGCACTAAAAACTCTAGG
R_PCR_SC2_Amplicon_13	TTAGACATTAAAACACCTAAAGC
R_PCR_SC2_Amplicon_14	ACATAAAATGTTTTACCTTCATG
R_PCR_SC2_Amplicon_15	TGTTGACTATCATCATCTAACCA
R_PCR_SC2_Amplicon_16	AGTCAAATTCTCAGTGCCACAA
F_PCR_SC2_Amplicon_1	GTCACGCCTAAACGAACATG
F_PCR_SC2_Amplicon_2	TCTGGAGTAAAAGACTGTGTTGT
F_PCR_SC2_Amplicon_3	GTGATTGCCTTGGTGATATT
F_PCR_SC2_Amplicon_4	TATATTCTAAGCACACGCCTATT
F_PCR_SC2_Amplicon_5	TTAGAATTAGCTATGGATGAATT
F_PCR_SC2_Amplicon_6	ACAGCTAGGTTTTTCTACAGGTG
F_PCR_SC2_Amplicon_7	TTATTGTAAATCACATAAACCAC
F_PCR_SC2_Amplicon_8	TAAGGAATTACTTGTGTATGCTG
F_PCR_SC2_Amplicon_9	TGTAACAGCTTTAAGGGCCAATT
F_PCR_SC2_Amplicon_10	TGTGGCTATGAAGTACAATTATG
F_PCR_SC2_Amplicon_11	AAGAGAAGTGGGTTTTGTCG
F_PCR_SC2_Amplicon_12	ATAAATATTATAATTTGGTTTTTACTATTA
F_PCR_SC2_Amplicon_13	TATGGACAACAGTTTGGTCCAAC
F_PCR_SC2_Amplicon_14	GATTACCAAGGTAAACCTTTGGA
F_PCR_SC2_Amplicon_15	CTCATGAAGTGTGATCATTGTGG
F_PCR_SC2_Amplicon_16	ATTAAAGGTTTATACCTTCCCAG