



**Supplementary Figure S1.** Gene homology comparison of ORF1 in various FCV strains. Sequences from 10 strains of FCV (460-20-1, 460-20-2, 9284-5-2020-ITA, 9341-1-2020-ITA, GXLZ01-19, GXLZ02-19, GXNN01-19, GXNN02-19, GXNN05-20 and GXNN06-20) were compared. The comparison results were presented above and three highly homologous fragments between 2,401 bp to 2,521 bp were labeled with red rectangular boxes in *Orf1* gene sequence.

**Supplementary Table S1.** The acquisition time and origin of 10 FCV isolated strains

Strain name	Genbank	Acquisition time (year/month)	Location
460-20-1	OP626900.1	2020/11	Andria, Apulia, Italy
460-20-2	OK428795.1	2020/11	Andria, Apulia, Italy
9284-5-2020-ITA	OP750454.1	2021/07	Teramo, Italy
9341-1-2020-ITA	OP750455.1	2021/07	Teramo, Italy
GXLZ01-19	MZ712025.1	2019/05	Liuzhou, Guangxi, China
GXLZ02-19	MZ712024.1	2019/05	Liuzhou, Guangxi, China
GXNN01-19	OL512761.1	2019/06	Nanning, Guangxi, China
GXNN02-19	MZ712022	2019/02	Nanning, Guangxi, China
GXNN05-20	MZ712019	2020/08	Nanning, Guangxi, China
GXNN06-20	MZ712018	2020/08	Nanning, Guangxi, China

**Supplementary Table S2.** Detection of Feline calicivirus in clinical samples

Number	Sample type	Sample source	Status	Results	
				RT-RPA (Tt, min)	RT-qPCR (n = 3, Ct)
1	Cat	Oral swab	Disease	5.8	14.43 ± 0.42
2	Cat	Oral swab	Disease	5.75	15.74 ± 0.27
3	Cat	Oral swab	Disease	7.25	18.50 ± 0.50
4	Cat	Oral swab	Disease	–	25.01 ± 0.20
5	Cat	Oral swab	Disease	10.52	21.2 ± 0.26
6	Cat	Oral swab	Disease	5	16.50 ± 0.42
7	Cat	Oral swabs	Disease	7.2	18.22 ± 0.34
8	Cat	Oral swab	Disease	12.5	26.56 ± 0.31
9	Cat	Oral swab	Disease	6.5	17.50 ± 0.22
10	Cat	Oral swab	Disease	9.25	21.8 ± 0.36
11	Cat	Oral swab	Disease	5.86	16.5 ± 0.45
12	Cat	Oral swab	Disease	8.7	20.8 ± 0.40
13	Cat	Oral swab	Disease	8.36	20.22 ± 0.38
14	Cat	Oral swab	Disease	9.2	20.61 ± 0.35
15	Cat	Oral swab	Disease	5.62	14.65 ± 0.24
16	Cat	Oral swabs	Disease	5.98	16.64 ± 0.35
17	Cat	Nasal swab	Disease	9.48	21.84 ± 0.48
18	Cat	Nasal swab	Disease	5.74	16.28 ± 0.37
19	Cat	Nasal swab	Disease	8.95	21.69 ± 0.28
20	Cat	Nasal swab	Disease	7.62	17.95 ± 0.46
21	Cat	Nasal swab	Disease	7.65	16.65 ± 0.11
22	Cat	Nasal swab	Disease	10.65	22.32 ± 0.48
23	Cat	Nasal swab	Disease	11.75	25.38 ± 0.42
24	Cat	Nasal swab	Disease	11.20	22.48 ± 0.18
25	Cat	Nasal swab	Disease	6.62	17.89 ± 0.28
26	Cat	Nasal swab	Disease	9.2	25.54 ± 0.21
27	Cat	Nasal swab	Disease	8.45	16.67 ± 0.17
28	Cat	Nasal swab	Disease	7.15	19.94 ± 0.28
29	Cat	Nasal swab	Disease	12.15	27.9 ± 0.31
30	Cat	Nasal swab	Disease	5.24	15.62 ± 0.19
31	Cat	Oral swab	Healthy	–	–
32	Cat	Oral swab	Healthy	–	–
33	Cat	Oral swab	Healthy	–	–
34	Cat	Nasal swab	Healthy	–	–
35	Cat	Nasal swab	Healthy	–	–

**Supplementary Table S3.** Comparison of RT-RPA-exo and RT-qPCR

Item	RT-RPA-exo	RT-qPCR S2 <sup>[1]</sup>
Time	15–30 min	1 h
Specificity	100%	100%
Limit of detection	7.674 copies/reaction	70 copies/reaction
Clinical performance	96.7 % (29/30)	100% (30/30)

**Note.** The data of time, specificity, limit of detection of RT-qPCR S2 was referenced by Abd-Eldaim MM's work<sup>[1]</sup>. Reference: Abd-Eldaim MM, Wilkes RP, Thomas KV, et al. Development and validation of a TaqMan real-time reverse transcription-PCR for rapid detection of feline calicivirus. Arch Virol, 2009; 154, 555–60.