

# Information and Data Sheet



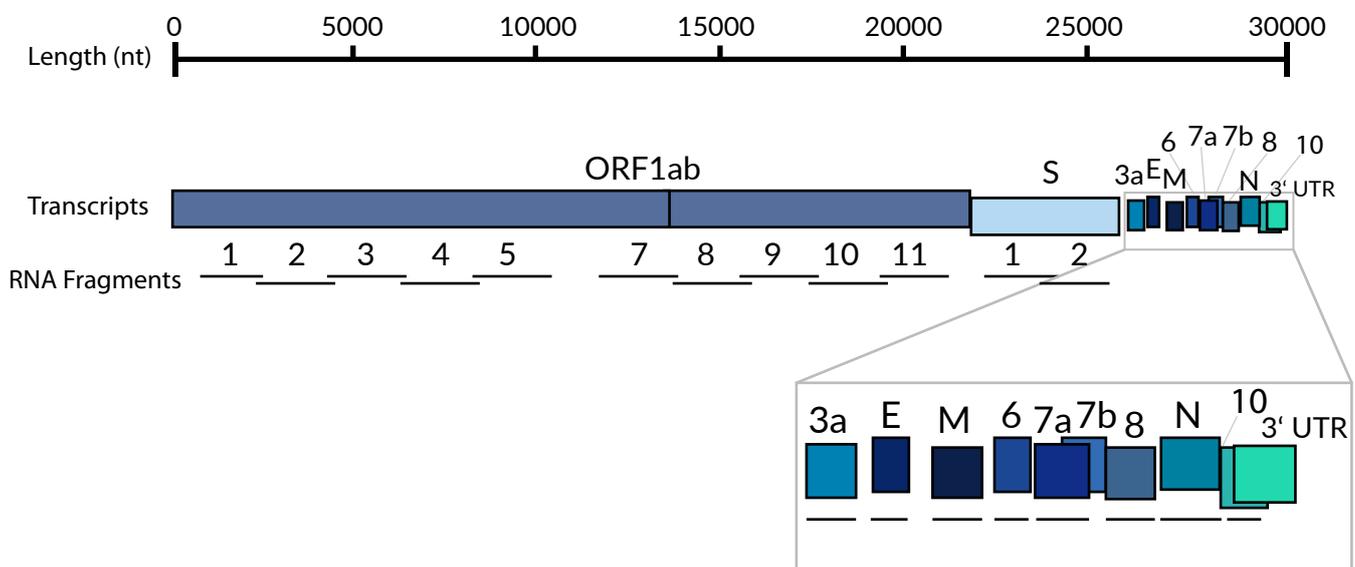
## SARS-CoV-2 positive control

Product	Catalogue No.	Reactions	Scale (ng)
SARS-CoV-2 positive control 20	cv-C020-000567	20	2
SARS-CoV-2 positive control 100	cv-C100-000567	100	10

siTOOLS Biotech SARS-CoV-2 positive control contains RNA fragments (120 – 2000 nt) covering 98% of the SARS-CoV-2 transcriptome. It is applicable in RT-PCR or LAMP detection assays.

## 98% Coverage of SARS-CoV-2 Transcripts

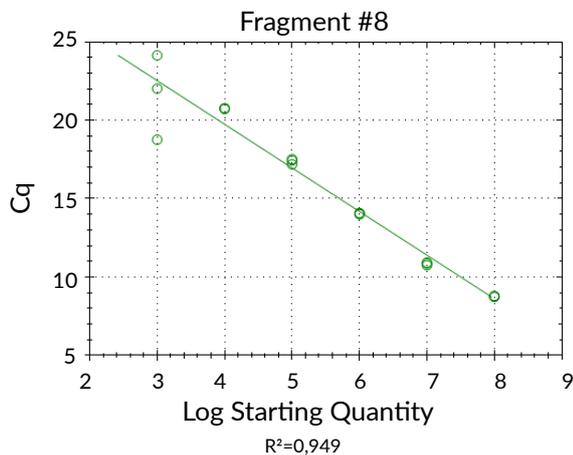
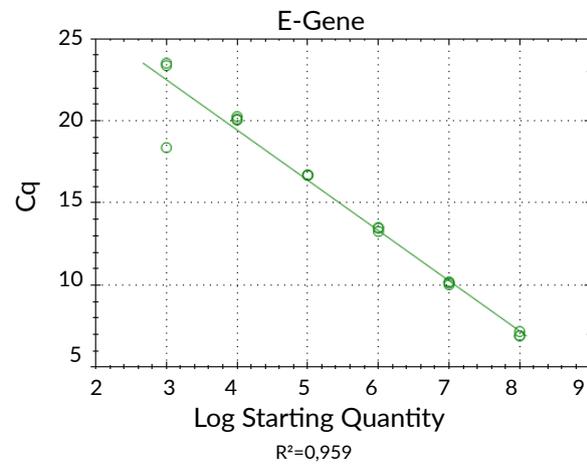
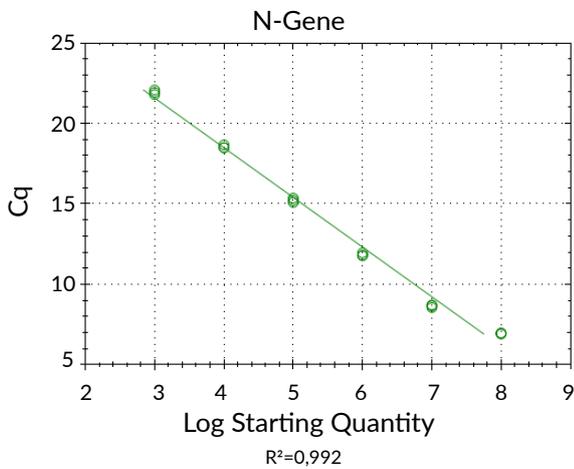
SARS-CoV-2 positive control has twenty RNA fragments that cover all major transcripts, enabling its versatile application as a quality control.



Fragment	Length (nt)	Fragment	Length (nt)
ORF1ab #1, #2, #3, #4, #5, #7, #8, #9, #10, #11	1800-2000	ORF6	190
S #1, #2	2000	ORF7a	370
ORF3a	830	ORF8	370
E	230	N	1260
M	670	ORF10	120

# Wide Detection Range with SARS-CoV-2 Positive Control

Real-time quantitative PCR analysis of SARS-CoV-2 positive control using primers against fragments ORF1ab #8, E and N showed good detection sensitivity across five log-dilutions.



Fragment	Forward Primer (5' -> 3')*	Reverse Primer (5' -> 3')*
ORF1ab #8 (Rdrp)	GTG ARA TGG TCA TGT GTG GCG G	CAR ATG TTA AAS ACA CTA TTA GCA TA
E	ACA GGT ACG TTA ATA GTT AAT AGC GT	ATA TTG CAG CAG TAC GCA CAC A
N	CAC ATT GGC ACC CGC AAT C	GAG GAA CGA GAA GAG GCT TG

Reverse transcription (Superscript IV Vilo, Thermo Scientific) and qPCR (Sensifast SYBR No-ROX, Biorline) was performed in triplicates with six log-dilutions of SARS-CoV-2 positive control (starting amount: 73 ng). Primer sequences obtained from Corman, V. M et. al (2020) Detection of 2019 novel coronavirus (2019-nCoV) by real-time RT-PCR. Eurosurveillance. 25, 2000045 \*R is G/A; S is G/C.

## Instructions for Use

SARS-CoV-2 positive control is supplied as a lyophilized powder with nuclease-free water provided.

1. Spin down contents of tube.

2. Add nuclease-free water :

SARS-CoV-2 positive control 20	20 µl
SARS-CoV-2 positive control 100	100 µl

3. Resuspend well and spin down contents before aliquoting.

4. Use 1 µl SARS-CoV-2 positive control (100 pg) per reaction.

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