





Novel Coronavirus (SARS-CoV-2) Detection Kit

Real-time PCR based but as fast as rapid test

- 45 minutes of turn-around-time using GENECHECYER UF-300 real-time PCR platform
- Simple workflow for minimized user handling
- Assay is designed to detect RdRP gene and N gene of SARS-CoV-2.
- Compact and affordable solution that suits any application.

Why SARS-CoV-2 is being an issue throughout the world?

First reported from Wuhan, China, on 31 December 2019, SARS-CoV-2 is the cause of coronavirus disease 2019 (COVID-19) and generally spreads through human-to-human contact or respiratory droplet infection from coughs and sneezes and it is thought to have a zoonotic origin. The symptoms of COVID-19 include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In severe cases, it can lead to pneumonia, severe respiratory acute syndrome, kidney failure and even death. Due to its high contagiousness and severeness, rapid detection of the virus should be performed as quickly as possible for setting up timely quarantine measure as well as proper medication and treatment.



Better detection assay to enhance your testing efficiency

Real-time PCR is one of the most well-known methods with good sensitivity and high accuracy for disease diagnostics. However, this technology used to have some disadvantages such as long turn-around-time or complicated workflow. Genesystem is proud to introduce **SMARTCHEK*** novel coronavirus (SARS-CoV-2) detection kit which is based on biochip sample format and provides relatively short turn-around-time with simple workflow while it offers key benefits of real-time PCR tests. The standard turn-around-time is 45 minutes using UF-300 real-time PCR platform of Genesystem.

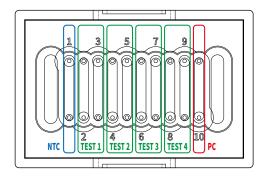
The kit is designed to detect two different target genes of SARS-CoV-2.

SMARTCHEK* novel coronavirus (SARS-CoV-2) detection kit has been developed to detect both RdRP gene and N gene of SARS-CoV-2. The primer pairs and probes for the detection of these two target genes are pre-labeled (dehydrated) in the wells of the test chip so that user doesn't need to pipette primers and probes for running the test.

Kit Contents =

Contents	Volume / Quantity		Paraviration.
	Cat. # : 9799151400	Cat. # : 9799151401	Description
Test Chip	5 EA	25 EA	Individually vacuum packed
Sealing Tapes	5 EA	25 EA	Packed in plastic bag
Premix	50 μL x 5 tubes	250 μL x 5 tubes	Tubes with blue label on the cap
Nuclease Free Water	10 μL x 5 tubes	50 μL x 5 tubes	Tubes with white label on the cap
Microcentrifuge Tubes	25 EA	125 EA	For mixing premix and template

Storage Information All the contents should be stored at -20 $^{\circ}$ C.



Configuration of Test Chip

Primers and probes for detection of N gene of SARS-CoV-2 are labeled in well number 2, 4, 6 and 8 while primers and probes for detection of RdRP gene of SARS-CoV-2 are labeled in well number 3, 5, 7 and 9. Well number 1 is for running no template control and well number 10 is for running positive control. With this configuration, 4 samples can be tested per a run.

 $\frak{\%}$ EACH WELL INCLUDES INTERNAL POSITIVE CONTROL.

Workflow



Ordering Information

Catalog Number	Description	Pack Size
9799151400	SMARTCHEK* Novel Coronavirus (SARS-CoV-2) Detection Kit	20 tests / PK (5 test chips / PK)
9799151401	SMARTCHEK* Novel Coronavirus (SARS-CoV-2) Detection Kit	100 tests / PK (25 test chips / PK)
1399100200	GENECHECYER* UF-300 Real-time PCR System	1 set



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