

Total Solution for SARS-CoV-2 S gene Analysis

COVID-19 virus are constantly evolving to new variants...

which have different shedding capacity and susceptibility to vaccine, which is mainly caused by the change of spike protein. To prevent the super-spreading of the variants, the S protein should be sequenced more quickly and efficiently.

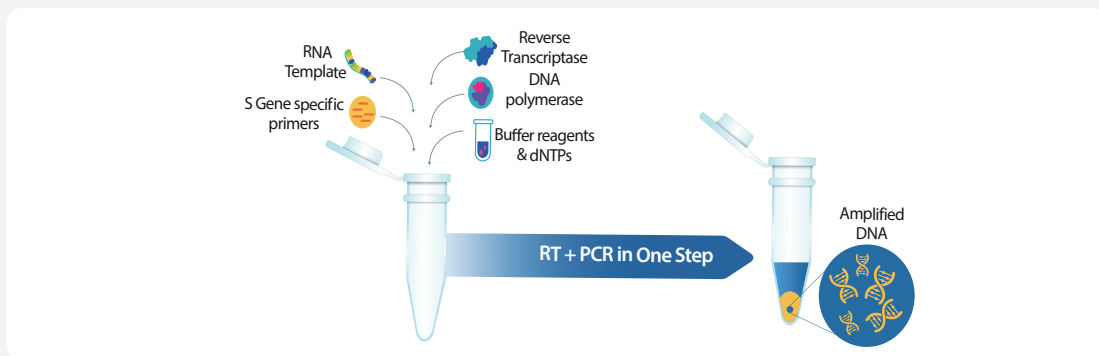
More fast and convenient solution for sequencing of S gene!

AccuPower® SARS-CoV-2 S gene Amplification Kit

AccuPower® SARS-CoV-2 S gene Amplification Kit is a one-step RT-PCR kit developed to easily and economically analyze the variation of S gene. The kit consists of four RT-PCR tubes per sample, so you can immediately add extracted RNA to analyze the genes of S-Protein with Sanger Sequencing. You can also purchase an additional PCR kit to analyze the S-Protein gene sequence of fewer positive samples, such as 100 copies or less.

Features & Benefits

- ✓ All components for RT-PCR are contained within a tube! Just add the extracted RNA!



- ✓ Excellent sensitivity to detect even a small amount of viruses
- ✓ The world's first Dual-HotStart™ RT-PCR technology with pyroHotStart RT and HotStart PCR is optimized to accurately detect only target genes.
- ✓ Direct Sanger Sequencing is possible after PCR purification without cloning.

Workflow for Sanger Sequencing Analysis of S gene Variants

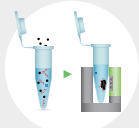
- Collect samples from patients
- Specimen
Nasopharyngeal & Oropharyngeal swab, Sputum
- Loading into RNA extraction Cartridge

step 1.
Sample Loading

Viral RNA Extraction Kit



Spin column type
AccuPrep®



Magnetic Bead type
MagListo™



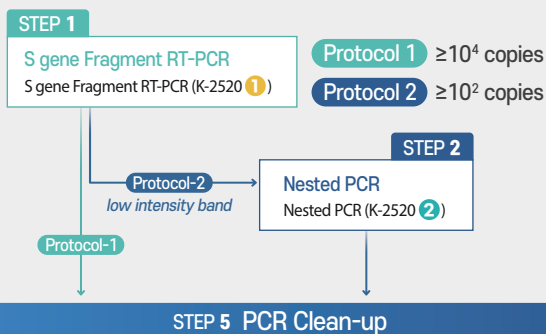
Automatic type
ExiPrep™96 Lite

step 2.
Viral RNA Extraction

AccuPower® SARS-CoV-2 Multiplex Real-Time RT-PCR Kit

step 3.
Amplification & Diagnosis

S gene Amplification



step 4.
S-gene Amplification

AllInOnecycler™

Conventional PCR



ExiSpin™

Vortexing & Spin-down

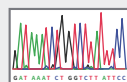


AccuPrep® PCR/Gel Purification Kit

step 5.
PCR Clean-up



Sample Preparation and
Delivery



Sequencing



Sequencing Analysis
Report

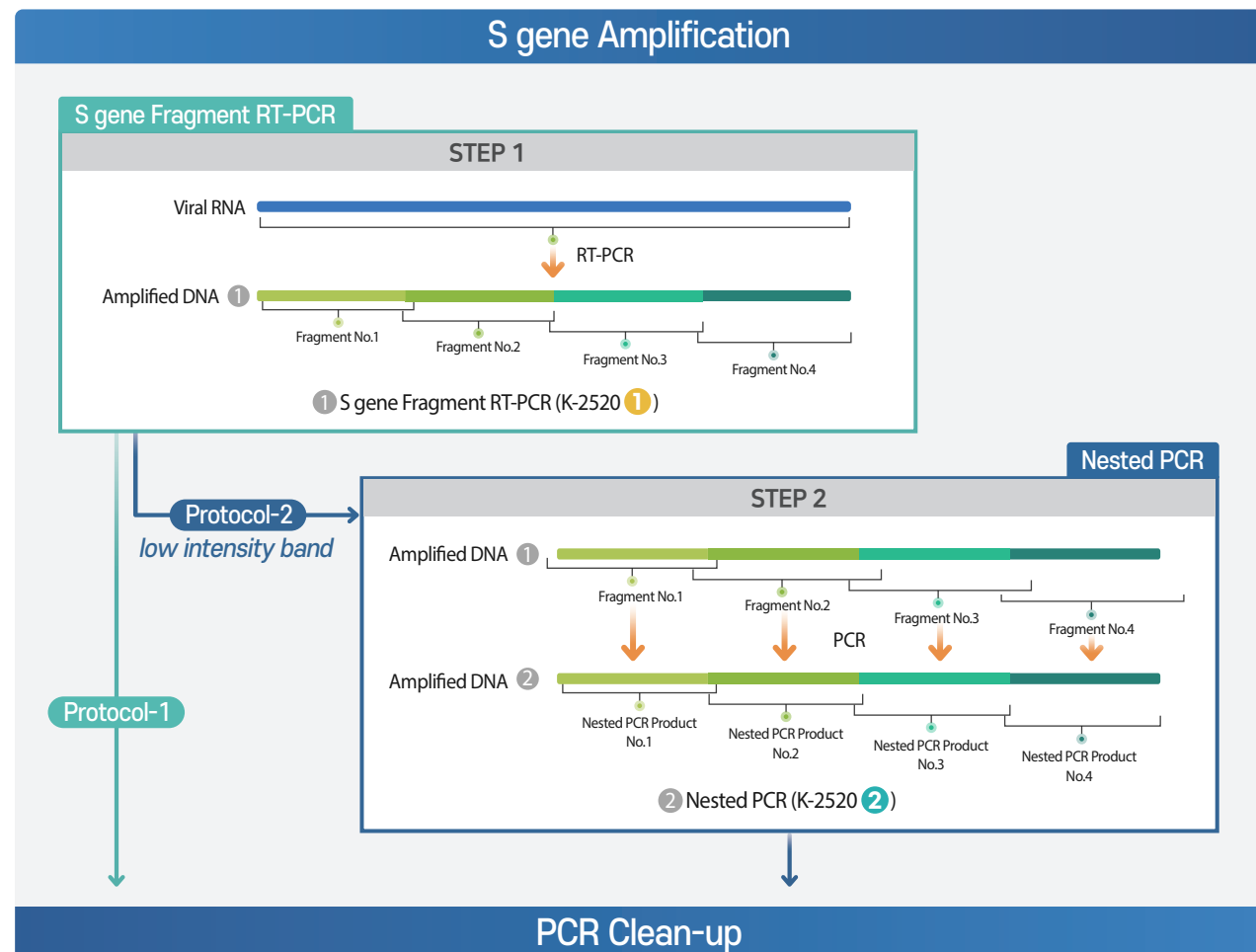
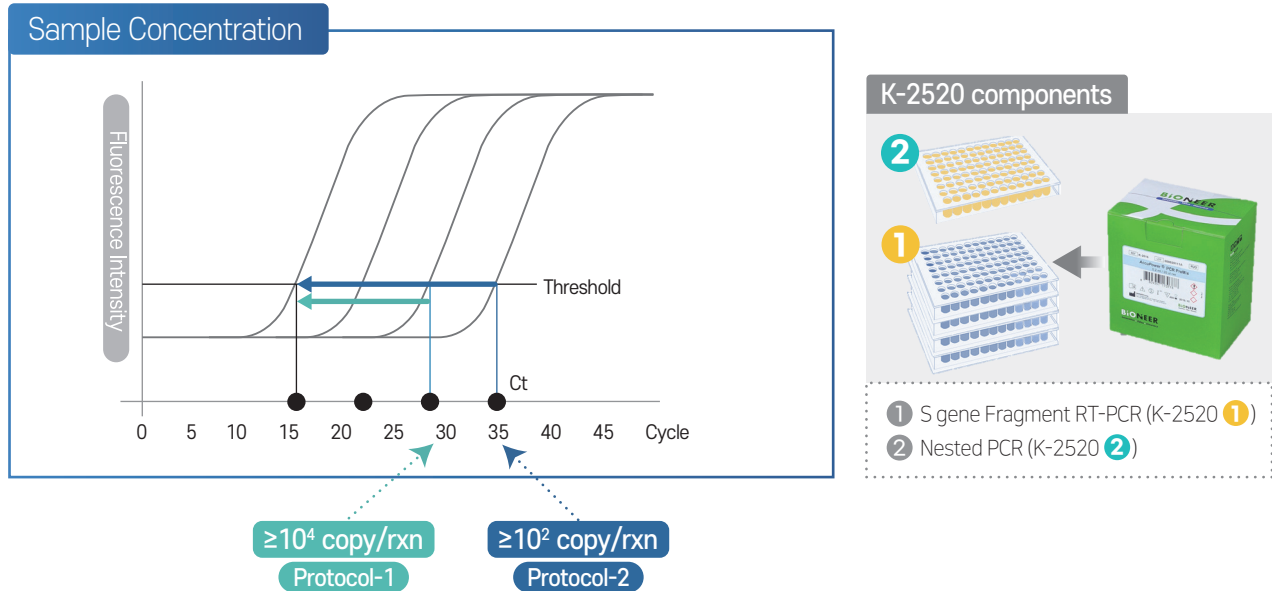
step 6.
Sanger Sequencing

Variant Analysis

Selection guide depending on Sample Concentration

What is the number of virus copies in your sample?

Save time and money with optimized protocols based on the number of virus copies!



Ordering information

Viral RNA Extraction

Cat.No.	Product Description	Specification
K-3033	<i>AccuPrep</i> [®] Viral RNA Extraction Kit	100 reactions
K-3624	<i>MagListo</i> [™] 5M Viral DNA/RNA Extraction Kit	100 reactions
A-5250	<i>ExiPrep</i> [™] 96 Lite	-
TM-1011	<i>MagListo</i> [™] -2-12h Magnetic Separation Rack	2 ml x 12 holes

Amplification & Diagnosis

Cat.No.	Product Description	Specification
SCVM-2112	<i>AccuPower</i> [®] SARS-CoV-2 Multiplex Real-Time RT-PCR Kit*	100 tests
A-2060-1	<i>Exicycler</i> [™] 96 V4 Real-Time Quantitative Thermal Block	-
A-2061	<i>Exicycler</i> [™] 384 Real-Time Quantitative Thermal Block	-

* It is an *in vitro* diagnostic kit.

S gene Amplification

Cat.No.	Product Description	Specification
K-2520	<i>AccuPower</i> [®] SARS-CoV-2 S gene Amplification Kit	20 µl/rxn, 96 test
A-2041	<i>AllInOneCycler</i> [™] PCR system	-
A-7040	<i>ExiSpin</i> [™]	-

PCR Clean-up

Cat.No.	Product Description	Specification
K-3037	<i>AccuPrep</i> [®] PCR/Gel Purification Kit	200 reactions
K-3038		50 reactions

Sanger Sequencing

Cat.No.	Product Description	Specification
N-8250	Sequencing Primer set for SARS-CoV-2 S gene Analysis	8 primers
-	Sequencing Service	-

* These products are for Research Use Only.

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Bioneer Corporation
8-11 Munpyeongseo-ro, Daedeok-gu
Daejeon, 34302, Republic of Korea
Tel: +82-42-930-8777 (Korea: 1588-9788)
Fax: +82-42-930-8688
E-mail: sales@bioneer.com

Bioneer Inc.
155 Filbert St. Suite 216
Oakland, CA 94607, USA
Toll Free: +1-877-264-4300
Fax: +1-510-865-0350
E-mail: order.usa@bioneer.us.com

Bioneer R&D Center
Korea Bio Park BLDG #B-702
700 Daewangpangyo-ro, Bundang-gu, Seongnam-si
Gyeonggi-do, 13488, Republic of Korea
Tel: +82-31-628-0500
Fax: +82-31-628-0555