

Full Screening for SARS-CoV-2 and Variants

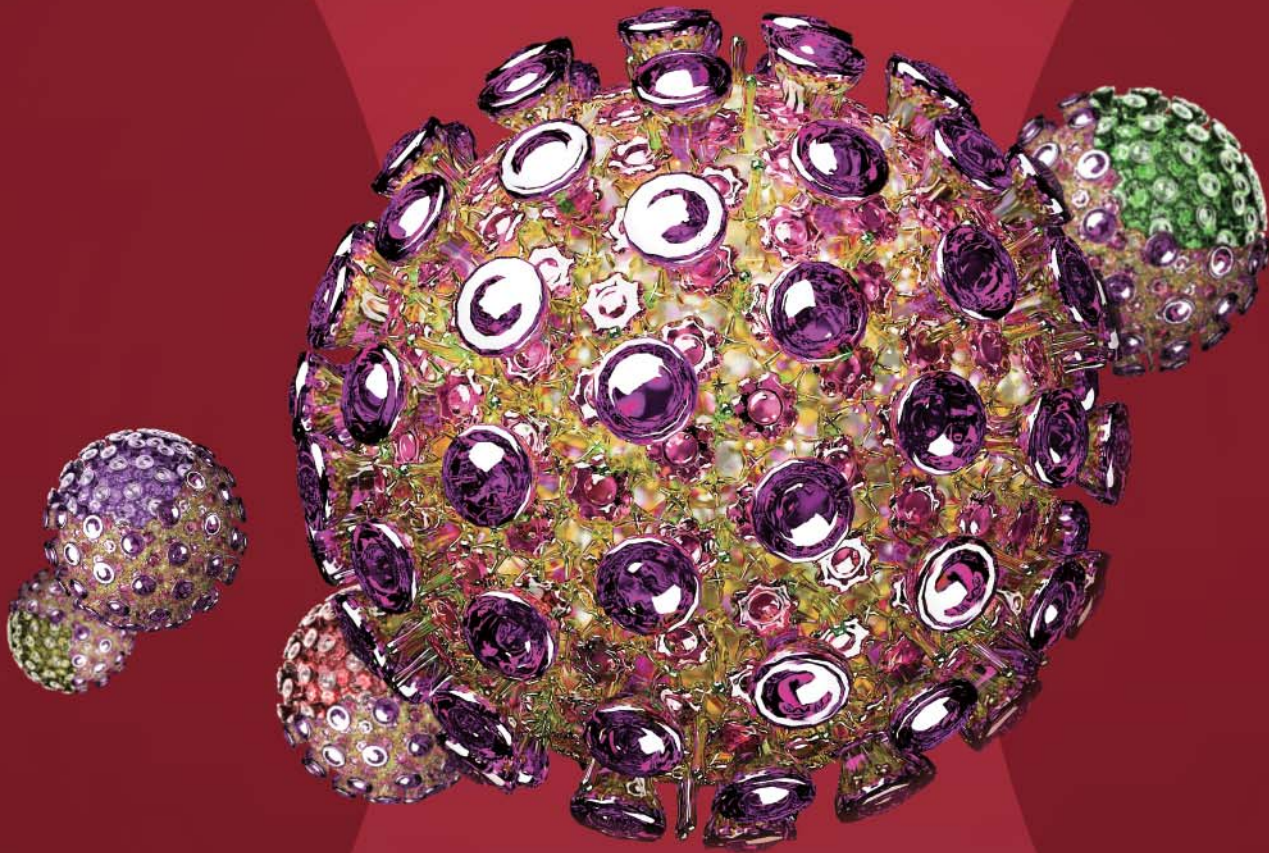
Allplex™ SARS-CoV-2 Master Assay

Multiplex real-time PCR testing in one tube

Reporting individual Ct value of multiple targets

Automated solution

Variant surveillance

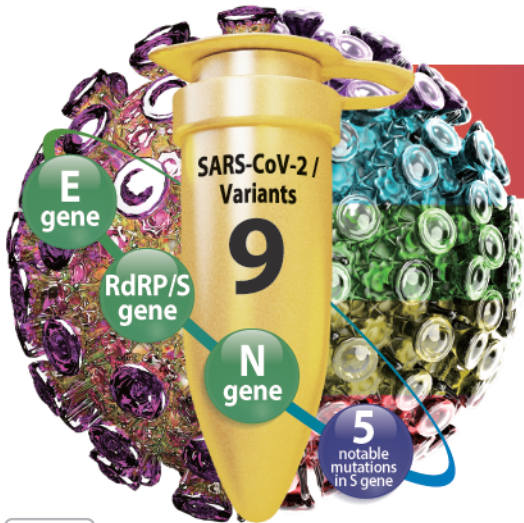


Keeping up with SARS-CoV-2 Variants

Allplex™ SARS-CoV-2 Master Assay screens for SARS-CoV-2 and the most reported variants in S gene, which may be associated with increased infectivity and/or change in vaccine effectiveness.

Variant designation	VOC-202012/01 501Y.V1	501Y.V2	501Y.V3	484K.V3
First reported	United Kingdom	South Africa	Brazil	Multiple
Lineage	B.1.1.7	B.1.351	P.1	B.1.525
Notable types of spike protein mutations	HV69/70 deletion, Y144 deletion, N501Y, P681H	K417N, E484K, N501Y	K417T, E484K, N501Y	HV69/70 deletion, E484K, F888L
Concern	Increase transmissibility	Increase transmissibility and possibly reduce vaccine effectiveness		

Screening for SARS-CoV-2 and Variants



CE-IVD
In progress

Allplex™ SARS-CoV-2 Master Assay *

* Patent pending

- Analytes**
- E gene
 - RdRP/S gene
 - N gene
 - HV69/70 deletion, Y144 deletion, E484K, N501Y and P681H in S gene
 - Endogenous IC
- Specimens**
- Nasopharyngeal swab
 - Nasopharyngeal aspirate
 - Oropharyngeal swab
 - Bronchoalveolar lavage (BAL)
 - Sputum



Screening for COVID-19 variants

Detection of COVID-19 and screening for its variant



Automated solution

Short turnaround time (TAT), high-throughput testing on automated platform



Reporting Ct values

Providing individual cycle threshold (Ct) value of multiple targets



Multiplex real-time PCR testing in one tube

Accurate multiplex test for five notable S gene mutations in addition to four target genes of SARS-CoV-2 in one tube



Variant surveillance

Surveillance solution of SARS-CoV-2 variants for efficient infection control and patient care



Reliable result

With endogenous internal control, minimize false-negative results to ensure the entire process and enable the application of self-collected samples

Kick your Real-time PCR up a notch !

With Seegene's core proprietary technology and expertise, enhance your MDx products with incomparable performance and usability.



Oligo Design

Oligo design technology for high multiplex PCR: **SG-Insilico™**

Enables rapid designing of high multiplex oligos using Seegene-developed algorithms and confidential variables



Amplification

Highly specific amplification technology for high multiplex PCR: **DPO™**

Allows the implementation of high multiplex diagnostics with unparalleled specificity using Seegene's unique primer structure



Target Detection

High multiplex target detection technology: **TOCE™**

Achieves accurate target signals by independently controlling multiple target signals for primer and probe annealing temperatures



Quantitative Detection

High multiplex target detection & quantification technology: **MuDT™**

Broadens capacity for high multiplex target detection & quantification by enabling analysis of multiple Ct values in a single detection channel



Interpretation

High multiplex signal processing technology: **DSP™**

Enables accurate reporting of target's positive or negative results through Seegene's proprietary signal processing algorithms

Automated solution for efficient workflow



Data Analysis



Automated extraction & PCR setup
Seegene STARlet

Real-time PCR
CFX96™ Dx

Automated interpretation
Seegene Viewer



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Ordering Information

Product	Volume	Cat. No.
Allplex™ SARS-CoV-2 Master Assay	50 rxns	RV10285Y
	100 rxns*	RV10284X
Instrument	Cat. No.	
CFX96™ Dx (2 modules)	1845097-IVD & 1841000-IVD	
Seegene NIMBUS	65415-03	
Seegene STARlet	67930-03	
SEEPREP32™	SG71100	
Maelstrom™ 9600	M9600	
STARMag 96 X 4 Universal Cartridge kit*	744300-4UC384	
STARMag 96 X 4 Viral DNA/RNA 200 C kit*	EX00013C	
STARMag 96 ProPrep (Plate type)**	EX00009P	
STARMag 96 ProPrep (Tube type)**	EX00009T	
STARMag 96 ProPrep C (Plate type)**	EX00017P	
STARMag 96 ProPrep C (Tube type)**	EX00017T	
TANBEAD™ Nucleic Acid Extraction kit***	W665566	
OptiPure Viral Auto Tube	W665A10	
OptiPure Viral Bulk Plate	W665A10	
SGRespl™ Pure (Plate type)***	EX00023P	
SGRespl™ Pure (Plate type)***	EX00024P	
SGRespl™ Pure (Tube type)***	EX00025T	

* For use with Seegene NIMBUS and Seegene STARlet only,

** For use with SEEPREP32™, *** For use with Maelstrom™ 9600

Not Available for Sale in the United States