



DATASHEET

PlexPrime® SARS-CoV-2 Alpha/Beta/Gamma+*

Research reagents to support investigation of COVID-19 variants of concern

Test Reagent

PlexPrime® SARS-COV-2 Alpha/Beta/Gamma+*

Catalog Number

7144002

Description

Single well, multiplex for simultaneous detection of 4 viral RNA targets - SARS-CoV-2 RdRp gene, and SARS-CoV-2 S gene (surface glycoprotein) mutations E484K, S982A, and N501Y using qPCR using PlexPCR® (PlexZyme® & PlexPrime®) technology

Sample Extraction

Samples should be extracted as total nucleic acid

Product Design			
Well	Channel	Target	qPCR cycling duration
1	1	Mutations causing E484K Spike Protein Substitution	100 minutes
	2	RNA-dependent RNA polymerase gene (RdRp)	
	3	Mutations causing S982A Spike Protein Substitution	
	4	Mutations causing N501Y Spike Protein Substitution	
Target Mutations			
E484K		E484K is present in P.1 (Gamma), and B.1.351 (Beta), and rare isolates of B.1.1.7 (Alpha)	
S982A		S982A is present in B.1.1.7 (Alpha)	
N501Y		N501Y is present in B.1.1.7 (Alpha), B.1.351 (Beta) and P.1 (Gamma)	
Instrument Compatibility			
Extraction	Liquid Handling	Amplification	
Magnetic bead-based	Lab self-validation	Roche LC480 II	
		BioRad CFX	
		ABI 7500 / 7500 Fast / 7500 Fast Dx	
		ABI QuantStudio	
Workflow Flexibility			
Total Reactions†		Reaction Volume	
200		25 µL	
†Includes additional volume to maintain total reaction numbers when used with a liquid handler			
Compatible with PlexPCR® Sapphire Core Reagents — Cat No: 7214002			
Shipping & Storage			
Shipping		Storage	
Reagents — dry ice/ice packs		Reagents -20°C	

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*Research Use Only
Not for use in diagnostic procedures

