Master Mixes for GENECHECKER™ Ultra-Fast PCR System

The latest reagent technology ensures ultra-fast reactions

- Optimized for ultra-fast reaction with GENECHECKER™
- High sensitivity, efficiency, reproducibility and minimized PCR inhibition
- Uses novel antibody-mediated hot-start DNA polymerases
- Options are available for general thermal cycling, real-time analysis and one-step RT-PCR

Another innovation to the latest PCR reagent technology

Adding to the innovative hardware technology for PCR instrumentation, reliable reagent technology is another key component to perform ultra-fast amplification and detection of genes in PCR applications. Genesystem offers a series of PCR master mixes for ultra-fast PCR tasks using GENECHECKER™.

Depending on the application, three different formats are available for immediate and easy use for your PCR applications.

Developments to give more value to your PCR application

The Series of master mixes for Genesystem are a 2x concentrated, ready-to-use reaction cocktail containing all components, except primers and template, for ultra-fast PCR tasks.

These premixes include a novel antibody-mediated hot-start DNA polymerases with improved speed when compared to other commercial polymerases. The master mix for real-time detection includes a double strand DNA specific-binding fluorescent dye and there is a reverse transcriptase available for one-step RT-PCR applications.

In addition, the Uracil-DNA glycosylase with dUTP system is applied to these PCR premixes for the prevention of carryover contamination. All the master mixes of GENESYSTEM have been optimized to deliver maximum PCR efficiency, sensitivity and robust fluorescent signal using fast cycling protocols for dye-based detection in ultra-fast real-time PCR using GENECHECKER™.

General Protocol

Components	Volume Needed
DNA Template	Your Volume
2x Master Mix	5µL
Forward Primer (5-10 pmoles/µL)	1µL
Reverse Primer (5-10 pmoles/µL)	1 µL
D.W.	Adjust to final 10 µL

Thermal Cycling and Real-Time PCR			One Step RT-PCR	
Step	Condition	Cycle(s)	Condition	Cycle(s)
cDNA Synthesis	Set at 0 sec	0	50°C for 5-30 min.	1
Enzyme Activation	95°C for 30 sec.	1	95°C for 30 sec.	1
PCR Denaturing	95°C for 3-10 sec	30-50	95°C for 3-10 sec.	30-50
Annealing	(your temp) 3-10 sec.	30-50	(your temp) 3-10 sec.	30-50
Extending	72°C for 3-10 sec.	30-50	72°C for 3-10 sec.	30-50

Ordering Information

Item Number	Description	Pack Size	Process	For use with Machine	For use with Rapi:Chips
470306-860	**Rapi:Detect Master Mix w/Fluorescent Dye**	**1mL x 2 Tubes (400 reactions)**	qPCR	UF-150 Item: 470306-884	470306-886 (pk/48) 470306-888 (pk/384) 470306-852 (pk/768)
470306-862	**Rapi:1-Step Onestep RT-PCR Kit w/Fluorescent Dye**	**1mL x 2 Tubes (400 reactions)**	qPCR	UF-150 Item: 470306-884	
470306-864	**Rapi:Amp Master Mix**	**1mL x 2 Tubes (400 reactions)**	PCR	UF-100 Item: 470306-882	470306-854 (pk/48) 470306-856 (pk/384) 470306-858 (pk/768)