



Product Information

Green-2-Go TaqProbe qPCR Mastermix - No Dye

Product information for QPCR005-NODYE:

Quantity: 500X20ul Rxn (4X1.25mL)

Product Description

TaqProbe qPCR MasterMix is designed for **probe-based** real-time PCR analysis of DNA samples. The components of TaqProbe qPCR MasterMix have been developed for superb performance in sensitivity, signal-to-noise ratio, and complete elimination of primer dimers. Multiplex formulation supports quantitative amplification and detection of up to four targets simultaneously and shows consistent high performance.

Guideline for your particular instrument model

Cat. No.	Product Name	qPCR Instruments
QPCR005-NODYE	Green-2-Go TaqProbe qPCR Mastermix-no Dye	BioRad® CFX96, CFX384, Chromo4™, CFX Connect™, Opticon 2, MiniOpticon™; Roche LightCycler® (2.0, 1.5, 480, 1536, Nano); MJ Research Opticon™, Opticon™ 2, Chromo® 4; Corbett Rotor-gene® (3000, 6200, 62H0, 6500, 65H0, 6600)

Product Application

TaqProbe qPCR MasterMix is ideally suitable for:

- SNP Genotyping assays
- Gene expression analysis
- Microarray validation
- High throughput screening

Kit Components

TaqProbe qPCR MasterMix is a 2X mix of dNTPs, Hotstart Taq polymerase, MgCl₂, reference dye, and proprietary buffer components.

Shipping and Storage

Upon arrival, TaqProbe qPCR MasterMix should be stored at -20°C and protected from light. After each experiment, the leftover mix (completely thawed and thoroughly homogenized) can be stored at 4°C if it is to be used within the next 3 months. TaqProbe qPCR MasterMix is stable for 1 year from the date of shipping when stored and handled properly.



Reaction Setup

Thaw TaqProbe qPCR MasterMix, template DNA, primers and RNase-free water on ice. Mix each solution well.

Prepare a reaction mixture using the following:

Components	Volume 20 µl	Volume 25 µl	Volume 50 µl	Final Concentration
TaqProbe 2X qPCR MasterMix	10 µl	12.5 µl	25 µl	1X
Template DNA	Variable	Variable	Variable	≤ 10ng/reaction
TaqProbe	Variable	Variable	Variable	100-300 nM
Forward Primer	Variable	Variable	Variable	100-500 nM
Revers Primer	Variable	Variable	Variable	100-500 nM
Rnase-free Water	Up to 20 µl	Up to 25 µl	Up to 50 µl	-
Total Volume	20 µl	25 µl	50 µl	-

Perform qPCR reactions using the following cycling program.

Step	Temperature	Duration (Standard)	Duration (Fast)	Cycles
Enzyme activation	95°C	10 min	10 min	1
Denaturation	95°C	15 sec	3 sec	40
Annealing/extension	60°C	60 sec	30 sec	

Recommendations for Optimal Results

- Aliquot reagents to avoid contamination and to avoid repeating freeze-thaw cycles
- TaqProbe qPCR MasterMix components are light sensitive; avoid exposure to light
- Start PCR as soon as the reaction mixture is prepared and always keep the reaction mixture chilled in an ice box prior to PCR reactions

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