



TaqProbe qPCR Mastermix

Cat. No.	Description	Quantity	Store at -20°C
Mastermix-P	TaqProbe 2x qPCR Mastermix- ROX	500 X 20 µl reactions (5ml)	
Mastermix-PL	TaqProbe 2x qPCR Mastermix- low ROX	500 X 20 µl reactions (5ml)	
Mastermix-PC	TaqProbe 2x qPCR Mastermix- iCycler	500 X 20 µl reactions (5ml)	
Mastermix-PS	TaqProbe 2x qPCR Mastermix- no dye	500 X 20 µl reactions (5ml)	
Mastermix-PM	TaqProbe qPCR Mastermix- Multiplex	500 X 20 µl reactions (5ml)	

Product Description

TaqProbe qPCR Mastermix is designed for TaqMan 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
Mastermix-P	TaqProbe qPCR Mastermix-ROX	-ABI® 7000, 7300, 7700, 7900, StepOnePlus™ -StepOne™ -Eppendorf® Realplex 4
Mastermix-PL	TaqProbe qPCR-ABI® 7500 Mastermix- low ROX	-Stratagene® Mx3000, Mx3005, Mx4000
Mastermix-PC	TaqProbe qPCR Mastermix- iCycler	-BioRad® iCycler®, iQ™5, MyiQ™ -BioRad® CFX96, Opticon™, Opticon™ 2, and Chromo® 4
Mastermix-PS	TaqProbe qPCR Mastermix- no dye	-Roche LightCycler® 480 -Corbett Rotor-gene® 6000, 3000 -Eppendorf® Realplex 2
Mastermix-PM	TaqProbe qPCR Mastermix- Multiplex	Suited for Multiplex TaqMan assay in the following instrument. -ABI® 7000, 7300, 7500, 7700, 7900, StepOne™, StepOnePlus™ -BioRad® iCycler®, iQ™5, CFX96, Opticon™2, Chromo® 4 -Corbett Rotor-gene® 6000, 3000 -Stratagene® Mx3000, Mx4000 -Roche LightCycler® 2.0, 480

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 thawed mix 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 20µl	Volume 25µl	Volume 50µl	Final Concentration
TaqProbe 2x qPCR Mastermix	10µl	12.5µl	25µl	1x
Template DNA	Variable	Variable	Variable	≤10ng/reaction
TaqMan Probe	Variable	Variable	Variable	100-300nM
Forward Primer	Variable	Variable	Variable	100-500nM
Reverse Primer	Variable	Variable	Variable	100-500nM
RNase-free Water	Up to 20µl	Up to 25µl	Up to 50µl	-
Total Volume	20µl	25µl	50µl	-

Perform qPCR reactions using the following cycling program.

Step	Temperature	Duration (Standard)	Duration (Fast)	Cycles
Enzyme activation	95°C	10min	10min	Hold
Denature	95°C	15sec	3sec	40
Anneal/extend	60°C	60sec	30sec	

Recommendations for Optimal Results

- Aliquot reagents to avoid contamination and to avoid repeated 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