

# HOT FIREPol® Probe qPCR Mix Plus

**Sensitive qPCR Mix designed for effective quantification of DNA targets with probe-based chemistry**



Cost-effective real-time qPCR master mix for probe-based qPCR assays.

This master mix has been developed for TaqMan® probes but is suitable for other hydrolysis probe types as well.

- suitable for singleplex and duplex assays
- high specificity and sensitivity
- reaction set-up and shipment without dry ice

## Ordering

Choose Mix

Without ROX

Choose Product Size

1 ml | 250 rxn

5 x 1ml | 1250 rxn

10 x 1ml | 2500 rxn

20 ml | 5000 rxn

0.2 ml | 50 rxn **free sample**

REQUEST FOR BULK SIZE

Some applications of this product may require a license which is not provided by the purchase of this product.

**For research use only.**

## Description

HOT FIREPol® Probe qPCR Mix Plus (no ROX) is optimized for real-time quantitative PCR assays and contains all the components necessary to perform qPCR, with the exception of template, primers, and probe.

The qPCR Mix contains optimized components and HOT FIREPol® DNA Polymerase supplied in a proprietary reaction buffer that enables detection of low copy number targets.

HOT FIREPol® Probe qPCR Mix Plus (no ROX) is optimized for DNA hydrolysis probes based on the 5' flap endonuclease activity.

## Properties

**Concentration:** 5x

**Hot-start:** yes, initial activation in 12-15 min

**Detection type:** Probe-based

**Reference dye:** none

**Compatible real-time instruments:** cyclers that do not need ROX reference dye.

HOT FIREPol® DNA Polymerase is activated by a 12 min incubation step at 95°C. This prevents the extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

## Applications

Detection and quantification of DNA and cDNA targets

Profiling gene expression

Microbial detection

Viral load determination

## Mix Components

**HOT FIREPol® DNA polymerase:** chemically modified FIREPol® DNA Polymerase enabling hot-start

**5x Probe qPCR buffer with 15 mM MgCl<sub>2</sub>:** 1x PCR solution – 3 mM MgCl<sub>2</sub>

**dNTPs:** dATP, dCTP, dGTP and dTTP

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