

HOT FIREPol® GC Master Mix

Hot-start PCR mix for GC-rich templates



94 /100 2 Citations

excellent amplification with templates up to 79% GC content
 suitable for templates up to 5 kb
 suitable for fragment analysis

Ordering

Choose Product Size

1 ml | 250 rxn

5 x 1ml | 1250 rxn

20 ml | 5000 rxn

0.1 ml | 25 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.

Details

— Reagents Provided

Item	Pcs.	Vial size
HOT FIREPol® GC Master Mix	1	1 ml 250 rxn
25 mM MgCl ₂	1	0.5 ml
DMSO 100%	1	0.5 ml

Description

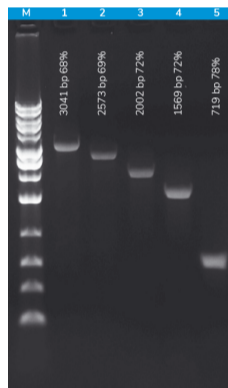
HOT FIREPol® GC Master Mix has been developed for working with difficult GC-rich templates and DNA secondary structures. It shows excellent amplification with templates up to 79% GC content

The master mix contains hot-start Taq polymerase HOT FIREPol®, MgCl₂, dNTPs, and a special buffer for high yield GC-rich amplification.

Extra vials of 100% DMSO and 25 mM MgCl₂ enable flexibility in reaction optimization.



Amplicons of various GC-content



Amplicons of various lengths from GC-rich template

Properties

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

Ready to load: no

Fidelity: 1 x Taq

Cloning Type: T/A cloning

Amplicon Size: up to 5 kb

Difficult templates: robust on GC-rich templates

Mix Composition:

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

- 5x HOT FIREPol® GC Buffer with 7.5 mM MgCl₂:** 1x PCR solution –1.5 mM MgCl₂

dNTPs: dATP, dCTP, dGTP and dTTP

Bovine serum albumin (BSA) to enhance PCR reaction

In separate vials:

100% DMSO is included in the kit in a separate vial. DMSO is recommended as a PCR additive for templates with high GC content. In some cases, DMSO is also required to relax secondary structures.

25 mM MgCl for further optimization

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