Fluorescent Green qPCR Master Mix

(500 rxns)

Zellbio GmbH (Germany)

CAT No. ZX-22111-500

www.zellx.de

Post reverse transcription step detection and quantification of DNA and cDNA targets, low copy gene detection, Gene expression using standard and fast qPCR platforms

!!! Caution: This product is for Research Use Only. Not for *in-vitro* Diagnostics !!!

Table of Contents

Please read this insert completely prior to using the product.

Introduction

ZellX® Fluorescent Green qPCR Master Mix grants efficient quantitative/real-time PCR in a single tube. The Fluorescent Green qPCR Master Mix contains a green fluorescent reporter dye plus all the reagents (except primers and DNA template) needed for running real-time PCR reactions. For an alternative option with low or high levels of carboxy-X-rhodamine (ROX™) use our **Fluorescent Green qPCR Master Mix (low cxr) (Cat NO. ZX-22112-250/500/1000)** or **Fluorescent Green qPCR Master Mix (high cxr) (Cat NO. ZX-22113-250/500/1000)**.

Materials supplied in the Kit

Component	*Quantity*
qPCR Master Mix (2X)	4 x 1.25 mL

Storage instruction

All reagents should be stored at -20°C upon receipt. Avoid repeated freezing and thawing.

Materials required but not supplied

Precision pipettes and disposable filter pipette tips (RNase & DNase free)

Nuclease-free tubes / strips / plates corresponding to the PCR device

Precautions

This kit should only be used by qualified personnel who have had laboratory safety instruction. The complete insert should be read and understood before attempting to use the product.

General remarks

- The instruction must be strictly followed. PCR machine / Thermocycler must be turned on and programmed in advance to avoid delays after setting up the reactions.
- Pipette tips should not be used more than once to prevent cross contamination.
- Reagents of different batches should not be mixed or used after their expiration dates.

Assay Procedure

For 20 µL reaction

- Thaw Master Mix on ice and mix them well. Collect liquid at the bottom of the tube with a quick spin.
- Set up the following reaction mixture.

Component	*Quantity*
qPCR Master Mix	10 µL
Forward Primer	X µL (200 nM)
Reverse Primer	X µL (200 nM)
DNA template	10-100 ng
Nuclease-Free Water	Up to 20 µL

**For optimal performance, we recommend to use cDNA corresponding to 1 pg to 500 ng of total RNA. For genomic DNA, we recommend to not use more than 100 ng*

- Mix reagents thoroughly, and transfer to the thermocycler.
- Run the appropriate PCR cycling protocol on your real-time PCR instrument

Step	*Number of Cycles*	*Temperature*	*Duration*
Initial activation	1	95°C	30 sec
Amplification*	40	95°C	3-5 sec
		60-65°C*	20-30 sec

**Not < 60°C.*

- ➢ The appropriate PCR cycling protocol must be optimized by the end user
- ➢ high primer concentrations result in nonspecific amplification and should be avoided