

# Optimizing Real-Time PCR

## Using Labeled Probes

**FailSafe™ PROBES Real-Time PCR Optimization Kit**

**FailSafe™ PROBES Real-Time PCR PreMix-Choice Kit**

### ➔ **Convenient, simple & easy to use**

PreMixes are preoptimized to save you time and energy.

### ➔ **Simple Optimization**

Robust enzyme mix and set of 2X optimization PreMixes contains all necessary components necessary for successful PCR. Enables optimum amplification efficiency to generate high quality, trustworthy data.

### ➔ **Consistent results**

Enzyme and PreMix formulations do not change which gives you consistent, error-free results every time.

### ➔ **No hot-start needed**

FailSafe™ PROBES Real-Time PCR System is compatible with all real-time PCR instruments and fluorescent probes.

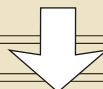
## Using SYBR Green I Dye

**FailSafe™ GREEN Real-Time PCR Optimization Kit**

**FailSafe™ GREEN Real-Time PCR PreMix-Choice Kit**

### **FIRST TIME**

Perform real-time PCR with your template & primers using the FailSafe GREEN Real-time PCR Optimization Kit & select the optimal Real-time PCR Premix



### **And EVERY TIME**

For consistent PCR results, choose the PCR Premix identified as optimal when you get the FailSafe GREEN Real-time PCR Premix Choice Kit

Real time PCR Premixes contain all components for quantitative PCR using Sybr Green I dye.

No specific probes required.

Includes ROX, an internal reference dye.

Kits available for both tube and capillary instruments

## MasterAmp™ GREEN Real-Time RT-PCR Kit

## Realtime RT-PCR

The MasterAmp™ GREEN Real-Time RT-PCR Kit provides all necessary components to perform high-sensitivity one-step quantitative T-PCR using SYBR® Green I Dye for detection.

Extremely high sensitivity and specificity.

Easy-to-use PreMix contains all components for successful quantitative RT-PCR, including SYBR® Green I dye.

A thermostable enzyme increases sensitivity and specificity by reducing RNA secondary structure.

MasterAmp PCR Enhancer increases sensitivity and specificity by reducing polymerase pausing and stops during reverse transcription and PCR.

SYBR® Green I dye for detection saves time and expense compared to use of labeled primers.

The kit uses flexible protocols for real-time detection on almost all real-time PCR thermocyclers