Real-time-PCR Master Mix EVA2 (2x) for Genotyping and High Resolution Melt (HRM)
Cat.-No: S160, 2x1,25 ml

Features:
- The Master mix contains dUTP and UNG (Uracil-N-Glycosylase)
- It contains EvaGreen as fluorescent dye
- The qPCR-PCR Mastermix EVA2 is ready-to-use and is optimized for high specificity and sensitivity because of optimized reaction buffer
- easy to us because ready-to-use Master Mix
- The Master Mix can be used with ROX as reference dye (1x concentrated)

Applications:
- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination

Description:
The Master Mix contains all reagents required for qPCR (except template and primer) in a premixed 2x concentrated ready-to-use solution. The high specificity and sensitivity of the mix is achieved by an optimized hot-start polymerase. Its activity is blocked at ambient temperature and switched on automatically at the onset of the initial denaturation. The thermal activation prevents the extension of non-specifically annealed primers and primer-dimer formations at low temperatures during PCR setup.
The mix contains dUTP instead of dTTP and allows an UNG (Uracil-N-Glykosylase) treatment at the onset of thermal cycling to prevent carry-over contaminations of DNA from previous PCR reactions.

Concentration: The Master mix is 2x concentrated

List of components:
Hot-Start Polymerase with monoclonal antibodies for qPCR, dATP, dCTP, dGTP, dUTP, UNG, EvaGreen, optimized reaction buffer with KCl and ammonium sulfate and $MgCl_2$, stabilizers and enhancers, PCR-grade water

Transportation: with blue ice
Storage: at 4°C for 3 months, at -20°C for 16 months, Note: protect from Light

Usage:

Components	Volume per reaction	final conc.
2X qPCR-Master mix EVA2	25 µl	1x
Up-stream primer (10 µM stock)	1,5 µl (range: 0,5-2.5 µl)	300 nM
Down-stream primer (10µM stock)	1,5 µl (range: 0.5-2,5 µl	300 nM
Template DNA	5 µl (0.1-15 ng/ml plasmid DNA) (1-10 µg/ml genomic DNA)	< 500ng DNA
Sterile dest. Water (included)	up to 50 µl total reaction volume	

- vortex all solutions carefully before using and before PCR
- may you add the enzyme mix after Template DNA
- an individual optimization of annealing temperature may be necessary for new combinations of primers and Template DNA

.. a good decision ..

General Thermo-Cycler protocol for qPCR-Master mix:

Note: working with EvaGreen just select the optical setting for FAM or SYBR Green at the cycler

Step	Time	Temperature
UNG treatment	2 min	50°C
Initial denaturation	1-3 min	95°C
30-40 Cycles: Denaturation Annealing Extension	 15-30 sec 30-65 sec 30 sec (per 500bp)	 95°C 55-65°C 72-75°C

Note:
- an individual optimization of annealing temperature may be necessary for new combinations of primers and Template DNA

Ordering information:

Cat.-no	Description	Amount
S160	Real-time-PCR Mastermix EVA2 (2,5 ml)	200 rcs / 25µl
S160L	Real-time-PCR Mastermix EVA2 (12,5 ml)	1000 rcs / 25 µl

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GeneON .. a good decision ..
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