



Smart Green Mastermix 2x:

Cat No :YT2552 Size: 1 ml

For Research Use Only

Storage condition:

- Stable for up to 24 months at -20°C
- Protect from light

Product description:

Smart green qPCR mastermix 2x is designed for highly sensitive and accurate quantification of gene expression and real-time PCR reactions, which contains all components, except for the primer. You need, just add the DNA template, primers and deionized water. This master mix was engineered with a new primer block mechanism to provide the highest detection sensitivity. In addition, the latest developments in PCR enhancers have been incorporated in the smart Green Master Mix, including buffer chemistry and highly robust engineered enzymes.

Features:

- easy-to-use mixture for real-time
- SYBR Green based qPCR 2X master mix
- Primer block technology
- optimized buffer system
- High amplification efficiency and specificity
- Available without ROX

Application:

- Gene expression analysis
- suitable for use in real-time PCR applications

How to use:

1. Add the following reagents except the template to the proper thermal cycler reaction tube or plate on ice:

Table1: Reaction setup

Reagent	Volume	Final concentration
2X smart green mastermix	10µl	1X
Forward primer(10pmol)	0.5	0.25 pmol
Reverse primer(10pmol)	0.5	0.25 pmol
Reference dye(optional)	Variable*	1X
Template	variable	variable
Water, nuclease free	variable	variable
Total volume	20	

*No Rox 0µl / Low Rox 0.08µl / High Rox 0.4µl

2. Add template to the PCR tubes or wells containing assay Master Mix (Table 1), seal the tubes or wells with caps or optically transparent film.

3. Depends on your instrument, spin the tubes or plate to remove any air bubbles and collect the reaction mixture in the vessel bottom.

4. Setup the thermal cycling protocol on a real-time PCR instrument according to Table 2. (optimization may be needed for better performance)

Table2 : Thermal Cycling Protocol

Initial denaturation	95°C	5min	HOLDING
Denature	95°C	5s	40 CYCLES
Annealing	T _m	25-30s	
Extension	72°C	10s	

5. To setup the Melt curve protocol on a realtime instrument please Refer to specific guidelines for instrument used.

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