

# 2X SYBR Green Real Time PCR Master Mix

Catalog Number: NP041010210 – 1 mL, 100 tests

## Description:

2X SYBR Green Real Time PCR Master Mix is a very sensitive and easy to use for real-time quantitative analysis of DNA and cDNA targets from various sources. This product is based on the SYBR Green I and a dual Hot-start Taq DNA polymerase (chemically modified and anti Taq) plus the pre-optimized buffer solution.

## Contents:

Components	
SYBR® Green Master Mix (2X)	1 mL
50X ROX Dye	50 µl

## Reaction Protocol Template:

Component	Volume	Final conc.
2X Master Mix	10 µL	1X
50X ROX dye (If needed)	0.4 µL	1X
Forward Primer (10 pmol/ µL)	0.2~2.0 µL	0.1~1.0 pmoles
Reverse Primer (10 pmol/ µL)	0.2~2.0 µL	0.1~1.0 pmoles
Template DNA	Variable	10 fg to 1 µg
PCR grade water	Up to 20µL final volume	
<b>Total Volume</b>	<b>20 µL</b>	

## Reaction Protocol:

1. Thaw 2X SYBR® Green Real Time PCR Master Mix.
2. Prepare a master mix. Gently mix reagents by inverting the tube and centrifuge. **DO NOT** vortex and avoid producing bubble.
3. Mix the master mix thoroughly and dispense appropriate volumes into PCR tubes or plates.
4. Add templates DNA to the individual PCR tubes or wells containing the master mix.
5. Program the Real-Time PCR machine according to the program outlined.
6. Place the PCR tubes or PCR plates in the thermal cycler and start the cycling program.
7. Perform a melting curve analysis of the PCR product(s).

Cycle	Time	Temp °C
1	10 min	94
	15 sec	95
25 - 35	30 sec	50 ~ 60
	30 - 60 sec	72
1	5 min	72