

2x Fast Sybr Green qPCR Master Mix

Fast Activation within 1min

DESCRIPTION

Tribo™ 2x Fast Sybr Green qPCR Master Mix with different ROX levels and package sizes provides a convenient choice suitable for different qPCR instruments. It is a 2x concentrated premix containing Taq DNA polymerase, dNTPs, Mg²⁺, SYBR Green I dye (detection), ROX reference dye and PCR buffer components. The proprietary chemical modifications of the enzyme make **PCR hot start activation much faster (less than 1 minute)** than the normal 10 minute activation in standard real-time qPCR amplifications. This confers a significant reduction in non-specific PCR amplification ([please see the diagram in the data sheet](#)). As the enzyme buffer system is optimized for real time PCR, the product offers high amplification efficiency and high detection sensitivity in real-time PCR.

KEY FEATURES

- ❖ Fast: **Only 1 minute** not the normal 5-10 minutes for enzyme activation.
- ❖ Multiple choices: 2X Master Mix with different ROX level can be suitable for different instruments.

CATALOG AND KIT SIZE

STORE AT -20 °C

Kit Catalog	Description	Kit Size	qPCR Instrument
TBS4001R-2.5	2x Fast SyBr Green qPCR Master Mix ROX	2x1.25 mL	ABI® PRISM® 7000, 7700, 7900HT, ABI® 7300 qPCR Systems, GeneAmp® 5700, StepOne™, and the StepOnePlus™.
TBS4001R-5	2x Fast SyBr Green qPCR Master Mix ROX	4x1.25 mL	
TBS4001R-10	2x Fast SyBr Green qPCR Master Mix ROX	1x10 mL	
TBS4001R-20	2x Fast SyBr Green qPCR Master Mix ROX	2x10 mL	

Kit Catalog	Description	Size	qPCR Instrument
TBS4001LR-2.5	2x Fast SyBr Green qPCR Master Mix Low ROX	2x1.25 mL	ABI® 7500 qPCR Systems, ViiA™ 7, QuantStudio™ 12K Flex, Agilent Mx3000P™ Mx3005P™ and Mx4000™
TBS4001LR-5	2x Fast SyBr Green qPCR Master Mix Low ROX	4x1.25 mL	
TBS4001LR-10	2x Fast SyBr Green qPCR Master Mix Low ROX	1x10 mL	
TBS4001LR-20	2x Fast SyBr Green qPCR Master Mix Low ROX	2x10 mL	

Kit Catalog	Description	Size	qPCR Instrument
TBS4001NR-2.5	2x Fast SyBr Green qPCR Master Mix No ROX	2x1.25 mL	BioRad iCycler MiniOpticon, Opticon 2, Chromo 4, iQ5; Roche LightCycler 480; MJ Research DNA Engine Opticon 2, Chromo 4; Corbett Rotogene 3000, 6000
TBS4001NR-5	2x Fast SyBr Green qPCR Master Mix No ROX	4x1.25 mL	
TBS4001NR-10	2x Fast SyBr Green qPCR Master Mix No ROX	1x10 mL	
TBS4001NR-20	2x Fast SyBr Green qPCR Master Mix No ROX	2x10 mL	

PROTOCOL

1. Set up the reaction Mixture in 20 µL reaction volume:

Components	Volume	Final Concentration
2x Fast Sybr Green PCR master Mix	10µL	1x
Forward Primer (10uM)	0.6µL	300nM
Reverse Primer (10uM)	0.6µL	300nM
Template DNA	Variable	≤ 500 ng/reaction
Nuclease-Free H ₂ O	To 20µL	

2. PCR amplification condition:

95°C, 1min → (95°C, 10S→60°C, 30S.) for 40 cycles → melting curve.

STORAGE CONDITIONS

The kit is shipped on ice. All components should be stored at -20°C in a non-frost-free freezer. Shelf life of 12 months after receipt.

RELATED PRODUCTS

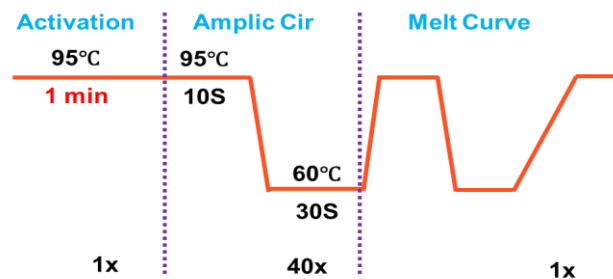
- 2x Fast Taqman Probe qPCR Master Mix-ROX (Catalog# TBS4002R)
- 2x Fast Taqman Probe qPCR Master Mix-Low ROX (Catalog# TBS4002LR)
- 2x Fast Taqman Probe qPCR Master Mix-No ROX (Catalog# TBS4002NR)
- All-in-One Reverse Transcription Reaction Kit (Catalog# TBS4006)

REFERENCES

1. Birch DE. (1996): Simplified hot start PCR. Nature, 381(6581): 445-446
2. Kellogg DE et al (1994): TaqStart Antibody: "hot start" PCR facilitated by a neutralizing monoclonal antibody directed against Taq DNA polymerase. Biotechniques. 16(6): 1134-7

Research use only

2x Fast Sybr Green qPCR MasterMix Amplification



2x Standard Sybr Green qPCR MasterMix Amplification

