Yeastern Biotech Co., Ltd

Product Use Limitation & Warranty

This product is intended to be used for life science research only. It has not been approved for drug or diagnostic purpose. YEASTERN's products should not be resold, modified for resale, or used to manufacture commercial products without written approval by YEASTERN. YEASTERN guarantees the performance of all products in the manner described in our protocol. The purchaser must determine the suitability of the product for its particular use. Should any product fail to perform satisfactorily due to any reason other than misuse, YEASTERN will replace it free of charge.

Ver. L0322

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EZtime™

Real-Time PCR Premix

(2X, For TaqMan® Probe) (2X, For TaqMan® Probe, ROX)

Cat. No.

FYT105-100P
FYT105-400P
FYT106-100P
FYT106-400P

EZtime Real-Time PCR Premix
(2X, For TaqMan® Probe) (2X, For TaqMan® Probe, ROX)

Description

EZtime™ Real-Time PCR Premix with TaqMan® Probe is a ready-to-use, 2X concentrated premix reagent that includes Hotstart Taq, TaqMan® Probe, ROX, optimized reation buffer and dNTPs for running real-time quantitive PCR(qPCR) and 2-step qRT-PCR. This premix can be used for detection of gene and quantification of gene expression with high sensitivity, good specificity, wide dynamic range and reproducibility.

Cat. No.	Product	Volume	Package
FYT105-100P	Eztime™ Real-Time PCR Premix (2X, For TaqMan® Probe)	1.25 ml	100 rxns
FYT105-400P		5 ml	400 rxns
FYT106-100P	Eztime™ Real-Time PCR Premix (2X, For TaqMan® Probe, ROX)	1.25 ml	100 rxns
FYT106-400P		5 ml	400 rxns

Contents

- EZtime™ Real-Time PCR Premix (2X, TaqMan® Probe, FYT106 with ROX)
- Protocol
- Hotstart Taq DNA Polymerase
- TaqMan® Probe Real-Time PCR Buffer
- dNTP mix including dATP, dCTP, dGTP, dTTP, 5 mM $MgCl_2$

Storage

- -20°C, avoid repeated freezing and thawing, protected from light.

Procedure

A. Preparation of PCR Master Mix

1. Thawing all reagents completely and vortex well.
2. Prepare a master mix according to **Table 1**

Table 1. Reaction Components for real-time PCR master mixture

Component	Volume/ reaction	Final conc.
Template DNA	2 µl	n/a
Eztime™ Real-Time PCR Premix	12.5 µl	1X
Forward Primer (10µM)	0.75 µl	0.3~0.6 µM
Reversed Primer (10µM)	0.75 µl	0.3~0.6 µM
ddH_2O	9 µl	
Total	25 µl	

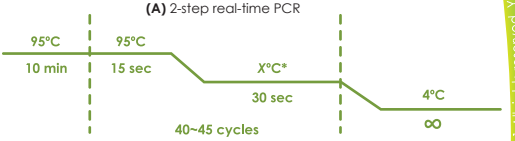
3. Mix the master mix thoroughly by pipetting up and down.
4. Dispense 23 µl of master mix into PCR tubes or plates.
5. Add 2 µl of the DNA or cDNA; mix carefully by pipetting up and down.

B. Performing Real-time PCR

1. Program your instrument according to **Table 2**. Users can choose either running **(A)** 2-step real-time PCR or a traditional **(B)** 3-step real-time PCR.

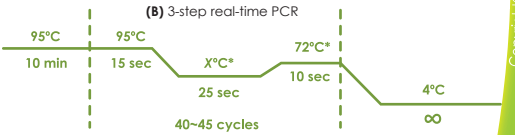
Table 2. Thermal cycling conditions.

(A) 2-step real-time PCR



** 2-step program is used only for the length of target gene smaller than 300 bp.*

(B) 3-step real-time PCR



** **X**: optimal annealing temperature is depending on user's primer sequences.*

2. Place the PCR tubes or PCR plates in the thermal cycler and start the cycling program.

Applications

- Quantitative real-time PCR
- Quantitative 2-step RT-PCR
- Quick and accurate detection and quantification of target gene through real-time PCR

Note

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EZtime™

Real-Time PCR Premix

(2X, For SYBR® Green) (2X, For SYBR® Green, ROX)

Cat. No.

FYT103-100P
FYT103-400P
FYT104-100P
FYT104-400P

EZtime Real-Time PCR Premix

(2X, For SYBR® Green) (2X, For SYBR® Green, ROX)

Description

EZtime™ Real-Time PCR Premix with SYBR® Green is a ready-to-use, 2X concentrated premix reagent that includes Hotstart Taq, SYBR® Green I, ROX, optimized reaction buffer and dNTPs for running real-time quantitative PCR (qPCR) and 2-step qRT-PCR. This premix can be used for detection of gene and quantification of gene expression with high sensitivity, wide dynamic range and reproducibility.

Cat. No.	Product	Volume	Package
FYT103-100P	Eztime™ Real-Time PCR Premix (2X, For SYBR® Green)	1.25 ml	100 rxns
FYT103-400P		5 ml	400 rxns
FYT104-100P	Eztime™ Real-Time PCR Premix (2X, For SYBR® Green, ROX)	1.25 ml	100 rxns
FYT104-400P		5 ml	400 rxns

Contents

- EZtime™ Real-Time PCR Premix (2X, SYBR® Green, FYT104 with ROX)
- Protocol
- Hotstart Taq DNA Polymerase
- SYBR® Green Real-Time PCR Buffer
- dNTP mix including dATP, dCTP, dGTP, dTTP, 5 mM $MgCl_2$

Storage

- -20°C, avoid repeated freezing and thawing, protected from light.

Procedure

A. Preparation of PCR Master Mix

1. Thawing all reagents completely and vortex well.
2. Prepare a master mix according to **Table 1**

Table 1. Reaction Components for real-time PCR master mixture

Component	Volume/ reaction	Final conc.
Template DNA	2 µl	n/a
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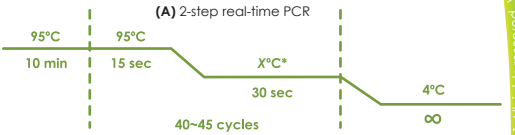
Reversed Primer (10 µM)	0.75 µl	0.3~0.6 µM
ddH_2O	9 µl	
Total	25 µl	

3. Mix the master mix thoroughly by pipetting up and down.
4. Dispense 23 µl of master mix into PCR tubes or plates.
5. Add 2 µl of the DNA or cDNA. Mix carefully by pipetting up and down.

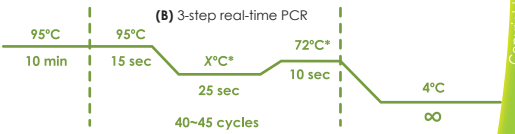
B. Performing Real-time PCR

1. Program your instrument according to **Table 2**. Users can choose either running **(A)** 2-step real-time PCR or a traditional **(B)** 3-step real-time PCR.

Table 2. Thermal cycling conditions.



** 2-step program is used only for the length of target gene smaller than 300 bp.*



** **X**: optimal annealing temperature is depending on user's primer sequences.*

2. Place the PCR tubes or PCR plates in the thermal cycle and start the cycling program.
3. Perform a melting curve analysis of the PCR product.

Applications

- Quantitative real-time PCR
- Quantitative 2-step RT-PCR
- Quick and accurate detection and quantification of target gene through real-time PCR

Note

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