2 x QPCR Perfect Probe Master Mix Handbook **Catalogue N°: PMP_1000**

Guidelines for use of AnyGenes 2x qPCR Perfect Probe Master Mix

Contents

Licensing

For in vitro use only.
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Introduction

The Perfect Probe PCR Master Mix is optimised and convenient premix of the components except (primers, probes, template) necessary to perform real time polymerase chain reaction (PCR).

It contains a thermo-stable TAQ DNA Polymerase as well as buffer and MgCl2 at concentrations optimised for the high performance of the enzyme. In addition the Master Mix contains dNTPs required for amplification of a DNA target.

This ideal premix solution requires only the addition of your template (cDNA), primers and probes to perform your PCR.
The performance of AnyGenes PCR Master Mix has been carefully designed to provide you a high sensitivity and specificity. For details see www.anygenes.com

Kit Contents

- Pack of 6x 1,7ml tubes (1000 X 20 µl reactions)

- The Perfect Probe Mater Mix is supplied in 2X concentration. This Master Mix is optimised to use for probe conditions and it contains:

    - Optimised buffer components including Mgcl2
    - Hot Start Taq DNA Polymerase
    - dNTPs

Storage

The AnyGenes 2xqPCR Perfect Probe Master Mix kit should be stored at -20ºC on arrival. Repeated freeze/thawing should be avoided.

AnyGenes® Satisfaction Guarantee

AnyGenes takes pride in the quality of all our products. Should this product fail to perform satisfactorily when used according to the protocols in this manual, AnyGenes will replace the item free of charge.

Quality Control

As part of our routine quality assurance programme, all AnyGenes® products are monitored to ensure the highest levels of performance and reliability.

Bench-side Protocol (Suggested)

For each 20µl Real-Time PCR reaction add the following to the reaction tube or Plate.

Suggested composition for probe based detection.
* 10 pmols of primer give a working concentration of 500 nM in a 20µl reaction
* 4 pmols of probe give a working concentration of 200 nM in a 20µl reaction

Components	One reaction
2X qPCR Perfect Probe Master mix	**10 µl**
Primers (10pmols Forward and Reverse)	µl
Probe (2pmols)	µl
Template (25ng)	µl
RNA/DNAase free water up to final volume	**20 µl**

For more convenience, and for high specificity and efficiency of your experiments, we recommend to use 20x OS Mix (special mix of primers and probe) of specific gene amplification kit from AnyGenes in the following procol:

Components	One reaction
2X qPCR High Probe Master Mix	**10 µl**
20x OS Mix	**1 µl**
Template (25ng)	µl
RNA/DNAase free water up to Final volume	**20 µl**

Amplification Protocols

Recommended for Roche Light Cycler Apparatus

	HotStart activation	10 min 95°C
45 cycles*	Denaturation	05 sec 95°C
	Data collection	45 sec 60°C

* Depending on the number of copies of starting template and the type of instrument used for real-time PCR, up to 55 cycles may be performed.