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# Super Start High-Specificity Probe qPCR Mix(UDG,Glycerol-Free)

**Product Number: PCM406GF**

## Shipping and Storage

-20℃.

## Components

| Component | PCM406GF |
|---|---|
| 2×Super Start High-Specificity Probe qPCR Mix(UDG,Glycerol-Free) | 5ml |

## Description

Super Start High-Specificity Probe qPCR Mix(UDG,Glycerol-Free) is a pre mixed system composed of HotStart Taq DNA polymerase, UDG enzyme, dNTPs (dUTP), and carefully optimized reaction buffer that have undergone special processing. It is a 2× concentration pre mixed reagent, and the preparation of PCR reaction solution is simple and convenient during experiments.

After special processing, HotStart Taq DNA polymerase can effectively reduce non-specific amplification caused by non-specific annealing of primers or primer dimerization. Combined with carefully optimized reaction buffer, it has high specificity and sensitivity.This product does not contain components such as glycerol that affect the freeze-drying process and can be used for the preparation of freeze-drying reaction systems and product design.

## Features

1. High specificity: HotStart Taq DNA polymerase prepared by a special process, combined with carefully optimized reaction buffer, greatly improves the specificity of PCR amplification.
2. Efficient: The carefully formulated RealTime PCR specific 2×SuperMix has higher amplification efficiency and sensitivity.
3. Quick: The necessary reagents for PCR reaction are collected in one tube, and the reaction system can be prepared in a few minutes.

## Quality control

All components have been tested with no residual endonucleases or exonucleases.

## Protocol

1. Common reaction systems (20μl) :

| | |
|---|---|
| 2×Super Start High-Specificity Probe qPCR Mix(UDG,Glycerol-Free) | 10μl |
| Upstream primer (10μM) | 0.2-1.0μM(Final Conc.) |
| Downstream primer (10μM) | 0.2-1.0μM(Final Conc.) |
| Probe(10μM) | 0.05μM-0.5μM(Final Conc.) |
| Template | 2-5μl |
| RNase Free Water | Up to 20μl |

2. Recommended PCR reaction procedure

| Step | Cycle | Temperature | Time |
|---|---|---|---|
| Pollution digestion | 1 | 37℃ | 2min |
| Pre denaturation | 1 | 95℃ | 5min |
| Denaturation | 40-45 | 95℃ | 10s |
| Annealing/Extension | | 60℃ | 30s |

Note:When conducting freeze-drying research on this product, additional auxiliary materials need to be added and cannot be directly used for freeze-drying.