Tinzyme Co., Limited

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Super Start Probe qPCR Mix (UDG)

Product Number: PCK006

Shipping and Storage

-20℃.

Components

Component	PCK006
2×Super Start Probe qPCR Mix (UDG)	1ml×5
RNase Free Water	1ml×5
ROX I	200μl
ROX II	200μl

1. The Real Time PCR instrument calibrated with ROX I includes:
   ABI 5700/7000/7300/7700/7900/7900 HT/7900 HT Fast,ABI StepOne/StepOnePlus and other instruments.
2. The Real Time PCR instrument calibrated with ROX II includes:
   ABI 7500/7500 Fast;ABI ViiA7;ABI Q6,ABI Quant Studio 6/7 Flex;Stratagene MX4000/MX3005P/MX3000P and other instruments.
3. Real Time PCR instruments that do not require ROX calibration include:
   Bio-Rad CFX96/CFX 384/iCycler iQ5/iQ/My iQ5/MiniOpticon/Opticon/Opticon 2/Chromo4； Eppendorf Mastercycler ep realplex /realplex 2s；Cepheid SmartCycler；Illumina Eco qPCR；Roche Applied Science LightCycler 480；Thermo Scientific PikoReal Cycler； Qiagen/Corbett Rotor-Gene Q/Rotor-Gene 3000/ Rotor-Gene 6000 and other instruments.

Description

The introduction of dUTP/UDG anti pollution system by 2×Super Start Probe qPCR Mix can effectively remove pollutants in the system. At the same time, when the reaction system is heated to 90-95 ℃, UDG enzyme is completely inactivated, which can maintain cDNA integrity. This product is prepared by adding fluorescent probes (TaqMan or Molecular Beacon, etc.) to the PCR system. During the amplification process, the fluorescence level is directly proportional to the amount of amplification product, and the nucleic acid content of the sample is determined by the fluorescence level. The DNA polymerase, carefully optimized reaction buffer, dNTPs and other reagents have been pre mixed together in this premix, making it a 2×concentration premixed reagent. When conducting experiments, the preparation of the PCR reaction solution is very convenient and simple.

This product uses a special process to prepare HotStartTaq DNA polymerase and a specially formulated reaction buffer, which can effectively inhibit non-specific reactions, improve reaction specificity and amplification efficiency, and enable accurate quantification over a wider range. And equipped with ROX Reference Dyes of different concentrations, used for correcting inter well fluorescence signal errors with different instruments.

Features

1. High specificity: The HotStartTaq DNA polymerase prepared by a special process greatly improves the specificity of PCR amplification;
2. Efficient: The carefully formulated Real Time 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

Purity testing: All components have been tested and found to have no residual endonucleases, exonucleases, or nucleic acid residues.

Note

1. When using, please gently mix up and down to avoid foaming, and use after slight centrifugation. Please use new (non polluting) gun heads, microtubes, etc. for the preparation and packaging of the reaction solution to avoid contamination.
2. Primer design: Generally, in order to increase sensitivity and amplification efficiency while suppressing non-specific reactions, the shorter the amplification target sequence, the better. Generally below 200bp.

Protocol

1. Common reaction systems (20μl)

2×Super Start Probe qPCR Mix (UDG)	10μl
Upstream primer	0.2-1.0μM(Final Conc.)
Downstream primer	0.2-1.0μM(Final Conc.)
Probe(10μM)	0.4μl
Template	1-2μl
ROX (to be selected based on machine model)	0.4μl
RNase Free Water	Up to 20μl

2. Recommended reaction procedure

2.1. Two step method:

Cycle	Temperature	Time
1	50℃	2min
1	95℃	2min
45-50	95℃	10s
	60℃	40s

2.2. Three step method:

Cycle	Temperature	Time
1	50℃	2min
1	95℃	2min
45-50	95℃	10s
	50-60℃	40s
	72℃	30s