Tinzyme Co., Limited

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SNP Genotyping qPCR MIX

Product Number: PCM15

Shipping and Storage

-20°C; for frequent use, it can be stored at 2-8℃ to avoid repeated freeze-thaw as much as possible.

Components

Component	PCM15 1ml
2×SNP Genotyping qPCR MIX	1ml
ddH_2O	1ml

Description

SNP Genotyping qPCR MIX is a real-time fluorescence quantitative 2×PCR premix system for probe based SNP typing, including Taq DNA Polymerase, PCR Buffer, dNTPs, Mg^{2+}, as well as enhancers and stabilizers, is simple and convenient to operate.The unique PCR buffer system has strong tolerance to complex templates such as blood and saliva. It can not only efficiently amplify extracted DNA, but also support direct amplification of oral swab solution and blood with a final concentration not exceeding 15%, without the need for complex extraction and preservation processes. Rapid and accurate typing results.

Preparation and important precautions before the experiment

1. Before use, please gently mix it upside down and avoid foaming as much as possible. After briefly centrifuging, use it.
2. Avoid repeated freeze-thaw of this product, as repeated freeze-thaw may cause a decrease in product performance. This product can be stored in a dark place at -20℃ for long-term storage. If frequent use is required in the short term, it can be stored at 2-8℃.

Protocol

Taking the primer for initial typing as an example:

1. PCR reaction system

Reagent	25μL reaction system	Final Concentration
2×SNP Genotyping qPCR MIX	12.5μl	1×
Primer Mix，10 μM each	1μl	0.2μM
Template DNA	appropriate amount	
ddH_2O	up to 25μl	

2. Using different genotype standards that require typing as templates, optimize the annealing temperature separately to achieve better typing results.
3. Template processing.The blood template can be directly diluted with ddH_2O to different concentrations for amplification, and it is recommended to use the final concentration of 2% blood as the template for typing amplification; Oral swab template, which can be gently scraped on the inner wall of the oral cavity about 6 times and placed at 400μL-1000μL After shaking and mixing in ddH_2O, it is directly used as a template.
4. PCR reaction program

This product can be processed using a two-step PCR reaction program.

Step	Temperature	Time	
Predenaturation	95℃	30s	
Denaturation	95℃	10s	45 cycles
Annealing/Extend	60℃（Depending on primer）	30s collecting signals	

Note:1)Using a two-step PCR reaction program, if the signal is low or the CT value is high due to the use of primers with lower Tm values, a three-step PCR amplification can be attempted.

2)Both real-time signal acquisition curve method and final signal acquisition endpoint method can be used for classification.