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SNP Genotyping qPCR MIX, UNG

Product Number: PCM15G

Shipping and Storage :

-20±5°C, if you need to use frequently, store at 2-8°C, try to avoid repeated freeze-thaw.

Components

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

Description

2×SNP Genotyping qPCR MIX, UNG is dedicated to probe-based SNP typing Real-time PCR premix systems at 2× concentrations, including Taq DNA Polymerase, PCR Buffer,dNTPs, Mg^{2+} and reinforcing agents and stabilizers are simple and convenient to operate, and this product is introduced dUTP/UNG antifouling Staining system, which greatly reduces false positives due to amplification products.Unique PCR buffer system on blood, saliva Complex templates such as liquid are highly tolerant and support direct expansion of oral swab fluid and blood with a final concentration of no more than 15%.There is no need for complicated extraction and preservation processes. Typing results are fast and accurate

Pre-experiment preparation and important notes

1. Please mix gently upside down before use, try to avoid foaming, and use after a short centrifugation.
2. Avoid repeated freeze-thawing of this product, repeated freeze-thawing may degrade the performance of the product. This product can be placed in for long-term storage Store at -20±5°C in the dark. If frequent use is required in the short term, it can be stored at 2-8 °C.

Protocol

Take primers for the first time as an example:

1. PCR reaction system

Reagent	25μL PCR reaction	Final Concentration
2×SNP Genotyping qPCR MIX, UNG	12.5μL	1×
Forward Primer，10 μM	0.5μL	0.2μM
Reverse Primer，10 μM	0.5μL	0.2μM
Probe，10 μM	0.5μL	0.2μM
Template DNA	Amount	
ddH_2O	Up to 25μL	

2. Annealing temperatures are optimized separately using different genotype standards that need to be typed to achieve better results parting effect.
3. Template processing
   - 3.1. Blood template, which can be directly diluted to different concentrations with ddH_2O for amplification, with a final concentration of 2% blood recommended.The liquid is used as a template for typing and amplification.
   - 3.2. Oral swab template, the swab can be gently scraped on the inner wall of the mouth about 6 times, and placed in 400μL~1000μL ddH_2O shaking and mixing and directly used as a template.
4. PCR reaction procedure

This product can be used by a two-step PCR reaction procedure

Step	Temperature	Time	
UNG digestion	37℃	2 min	
Pre-denaturation	95℃	30 s	
Denaturation	95℃	10 s	45cycles
Annealing/extension	60℃(depending on primer)	30s to acquire the signal	

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

2)Real-time acquisition signal curve method and final acquisition signal endpoint method can be typed.