

## 2x Genotyping PCR Ready Mix (Catalog# TBS4003)

### DESCRIPTION

The 2x Genotyping PCR Ready Mix is a ready-to-use solution containing all reagents required for PCR including Taq DNA polymerase, dNTPs, MgCl<sub>2</sub>, reaction buffer, tracking dye, density and PCR stabilizers and enhancers at optimal concentrations for consistent and efficient PCR amplification. It simplifies PCR assembly so that only primers, DNA template, and water need to be added. The PCR products can be directly loaded onto electrophoresis gel (See image).

### APPLICATIONS

- Genotyping; DNA mutagenesis.

### KIT CONTENTS

2x 1.25 mL of 2x PCR Ready Mix  
 2x 1.25 mL of DNase free water.  
**Sufficient reagent for 250 x 20µL**

### STORAGE CONDITIONS

The kit is shipped on ice. All components should be stored at -20°C in a frost-free freezer. Shelf life is 12 months after receiving.

### KEY FEATURES

**Convenient:** 2x Genotyping PCR Ready Mix contains all components for PCR amplification. All you need to do is to add primers, template, and water for PCR reaction.

**Hazard-free Visualization:** Dyes are non-toxic and non-mutagenic.

**No Loading Dye Required:** The PCR products can be directly loaded onto electrophoresis gel.

**High efficiency:** The optimal buffer condition and specifically engineered Taq DNA polymerase have increased the efficiency of PCR amplifications.

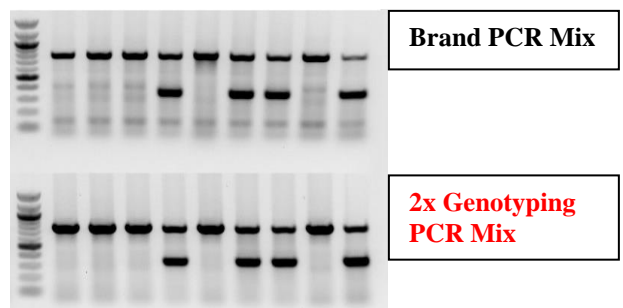
**This product is for *in vitro* research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.**

### SUGGESTED PCR PROTOCOL

20 µL/reaction  
 2x PCR Mix: 10 µL  
 Forward Primer: 10-20 pmol  
 Reverse Primer: 10-20 pmol  
 DNA template: <2 µL  
 Nuclease-free H<sub>2</sub>O: up to 20 µL

### SUGGESTED PCR CONDITIONS

**Step 1:** 95°C for 5-10 minutes;  
**Step 2:** 95°C for 10-30 seconds;  
**Step 3:** 55-65°C for 30-90 seconds;  
**Step 4:** 72°C for 30-120 seconds  
**Step 5:** 25-35 cycles of steps 2-4  
**Step 6:** 72°C for 5-10 minutes



Comparison between 2x Genotyping PCR and Brand PCR Mix

### RELATED PRODUCTS

- Tail DNA Extraction kit (Catalog# TBS6005)
- Fast DNA Extraction kit (Catalog# TBS6008)
- 2x Regular PCR Kit (Catalog#TBS4004)
- 2x PCR Red Mix kit (Catalog# TBS4005)

### REFERENCES

1. Birch DE. (1996): Simplified hot start PCR. Nature, 381(6581): 445-446
2. Kellogg DE et al (1994): TaqStart Antibody: "hot start" PCR facilitated by a neutralizing monoclonal antibody directed against Taq DNA polymerase. Biotechniques. 16(6): 1134-7