

**DESCRIPTION**

The 2x PCR Red 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, PCR stabilizer and enhancer 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 in PCR preparation, and the PCR products can be directly loaded onto electrophoresis gel (See Fig. 1).

**APPLICATIONS**

- PCR amplification.
- DNA mutagenesis.

**KIT CONTENTS**

2x 1.0 mL of 2x PCR Red Mix  
2x 1.0 mL of DNase free water.

**STORAGE CONDITIONS**

The kit is shipped on ice, and stored at -20°C for long-term storage. Shelf life of 12 months after receipt.

**KEY FEATURES**

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

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

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

**High efficiency:** the optimal buffer condition and specific engineered Taq DNA polymerase have increased the efficiency of PCR amplification.

**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 1-3 minutes;

**Step 2:** 95°C for 10-30 seconds;

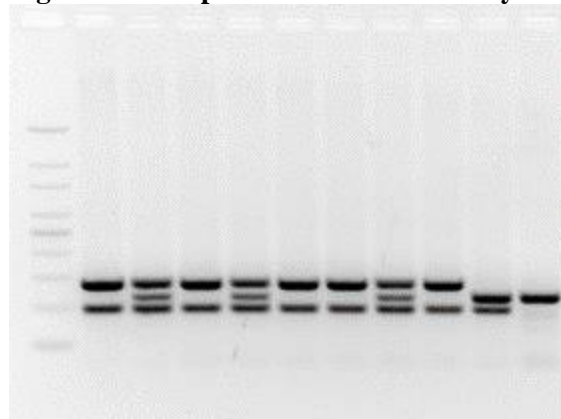
**Step 3:** 55-65°C for 30-90 seconds;

**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

**Fig. 1 PCR Amplification and Gel Analysis**

**RELATED PRODUCTS**

SYBR Green qPCR Super Mix (TBS4001)

Taqman Probe qPCR Super Mix (TBS4002)

Mouse Genotyping PCR Mix (TBS4003)

All-in-One RT Kit (TBS4006)

Taq DNA Polymerase (TBS4008)

Tail DNA Extraction kit (catalog# TBS6005)

Fast DNA Extraction kit (catalog# TBS6008)

Hybr-R RNA Purification Kit (305-101)

**This product is for *in vitro* research use only.**