



# Manual

Version 2.1

**Product name:** Ori Master Mix

**Cat #:** OMM-100

## Description:

The 2X Ori Master Plasmid Amplification Mix is a premixed ready-to-use solution containing a high-fidelity DNA polymerase, ori specific primers, dNTPs, and  $MgCl_2$ . The Master Mix can produce linear copies of bacterial plasmids from a single colony. The reaction mixture and conditions are optimized regardless of the plasmid copy number. Amplified products can be directly sequenced without the need of purification.

## Applications:

- Bacterial sequencing
- Colony PCR
- Bacterial screening

## Feature:

- Fast reaction within 2 hours
- Easy to use
- Long amplification fragment
- High throughput
- High fidelity

## Protocol:

1. Resuspend bacterial colony (1mm) in 10  $\mu$ l of water.
2. Add 12.5  $\mu$ l of 2X Ori Master Amplification Mix in a PCR tube.
3. Add 1  $\mu$ l of resuspended bacterial colony.
4. Add water to a final volume of 25  $\mu$ l.

Thermocycling conditions:

98 °C - 5 minutes

36 cycles of

98 °C - 10 seconds

61 °C - 15 seconds

72 °C - 1 minute

After the cycles, 72 °C - 5 minutes

5. Run 2-5  $\mu$ l of the product on a 1% agarose gel.
6. Dilute the amplified product 1:2 with water and send for sequencing.

**Storage Condition:** -20 °C

**Shipping Condition:** Dry ice