

## 2X Taq PCR Master Mix

**Catalog No.:** 40601

**Product Name:** 2X Taq PCR Master Mix

### Description

Leadgene 2X Taq PCR Master Mix is a ready-to-use solution containing Taq DNA Polymerase (Cat. No. 4001182), dNTPs (Cat. No. 4007160), optimized buffer, and the blue dye. This Taq Master Mix is provided at 2X concentration and used at 1X concentration by adding template, primer, and H<sub>2</sub>O. It has the 5' to 3' DNA polymerase activity and 5' to 3' exonuclease activity without 3' to 5' exonuclease activity. The product has high extending speed around 1-2 kb/min. The PCR product has an "A" tail on 3' end which can be applied in TA cloning.

### Package size

1 mL

### Storage

-20°C

### Quality Control

This product has passed the following quality control assays: functional absence of double- and single-stranded endonuclease activity. Each lot of Taq DNA Polymerase is assayed for amplification from as little as 10 ng of human genomic DNA.

### Reaction Mixture Set Up

Component	Condition
2X Taq PCR Master Mix	25 µL
Template DNA	10 pg - 100 ng <sup>†</sup>
Primer F (10 µM)	0.1-2 µL
Primer R (10 µM)	0.1-2 µL
ddH <sub>2</sub> O to final volume	to 50 µL

<sup>†</sup>For plasmid or viral templates: 10 pg - 1 ng

For genomic or cDNA templates: 1 ng - 100 ng

*NOTE:* The final volume of reaction could be various by user determined.

### Recommended thermal cycling conditions

Temperature	Time	Number of Cycles
94°C	2-5 min	1
94°C	30 sec	
T <sub>m</sub> -(3-5)°C	30 sec	25-35
72°C	1-2 kb/min	
72°C	5-10 min	

### For research use only.

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