

## Product Components

Components	Component number	Size-1	Size-2
		500 $\mu$ L	2.5 mL
100 bp DNA Ladder	RM30233	1 $\times$ 500 $\mu$ L	5 $\times$ 500 $\mu$ L

## Product Description

The 100 bp DNA Ladder is a ready-to-use DNA Ladder, which is pre-mixed with loading dye for direct gelloading. This product consists of 11 individual DNA fragments: 100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp, 1000 bp and 1500 bp, derived from a mixture of PCR products and specifically digested plasmid DNA. The 500 bp fragment is present at increased intensity for easy identification.

## Storage

Store at  $-20^{\circ}\text{C}$  for long-term storage. Store at  $4^{\circ}\text{C}$  after thawing for short-term use and avoid repeated freezing and thawing.

## Notes

1. Please thaw and mix thoroughly before use.
2. Please change the electrophoresis buffer in time, and use freshly prepared agarose gel to avoid affecting the electrophoresis results.

## Experiment Process

1. As a ready-to-use product, load 5  $\mu$ L on gel for each sample is recommended, and if the well is wide, loading volume can be increased appropriately for electrophoresis.
2. The recommended condition is 1 $\times$  TAE buffer or 0.5 $\times$  TBE buffer, 1%-2% agarose gel, and 4-10 V/cm between positive and negative electrodes.
3. Use UV transilluminator to detect DNA bands stained with nucleic acids stain dye.
4. The electrophoresis results of the 100 bp DNA Ladder are shown below.

