

# 100bp Plus DNA Ladder

Please read the manual carefully before use

Cat.No. BM311

**Storage:** at 2°C-8°C for six months; at -18°C or below for two years

**Concentration:** 0.13 mg/ml

## Description

100bp Plus DNA Ladder is a premixed, ready-to-load molecular weight marker containing twelve linear double-stranded DNA fragments. The DNA Ladder is suitable for use as molecular weight standards for agarose gel electrophoresis. This product contains 1× Loading Buffer and can be directly loaded (5 µl per lane) for electrophoresis as required. It is convenient to use and produces clear, sharp DNA bands. The 500 bp reference band has a concentration of 100 ng/5 µl, providing a bright visual marker, while all other bands have concentrations of 50 ng/5 µl. This design allows for accurate estimation of target DNA quantity during analysis.

## Highlight

- Ready-to use molecular weight marker for DNA size range of 100 bp to 1,500 bp.

## Composition

100 bp, 200 bp, 300 bp, 400 bp, **500** bp, 600 bp, 700 bp, 800 bp, 900 bp, 1,000 bp, 1,200 bp, 1,500 bp

## Storage Buffer

10 mM Tris-HCl (pH 8.4), 10 mM EDTA, 0.02% bromophenol blue, 5% glycerol

## Usage

- Load 5 µl of the product into the well of the agarose gel. A guideline for loading is 1 µl per mm of well width; the volume may be increased for wider wells.
- It is recommended to perform electrophoresis on a 2–3% agarose gel at a voltage of 4–10 V/cm.
- Visualize the DNA bands under UV light after staining with ethidium bromide (EB) or GelStain.

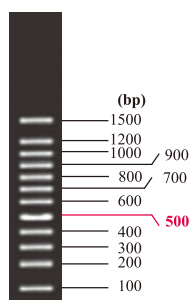
## Recommended Electrophoresis Buffer

TAE or TBE

## Notes

- Thaw completely and mix thoroughly before use.
- Replace the electrophoresis buffer regularly and use freshly prepared agarose gels to ensure optimal electrophoresis performance.

100bp Plus DNA Ladder

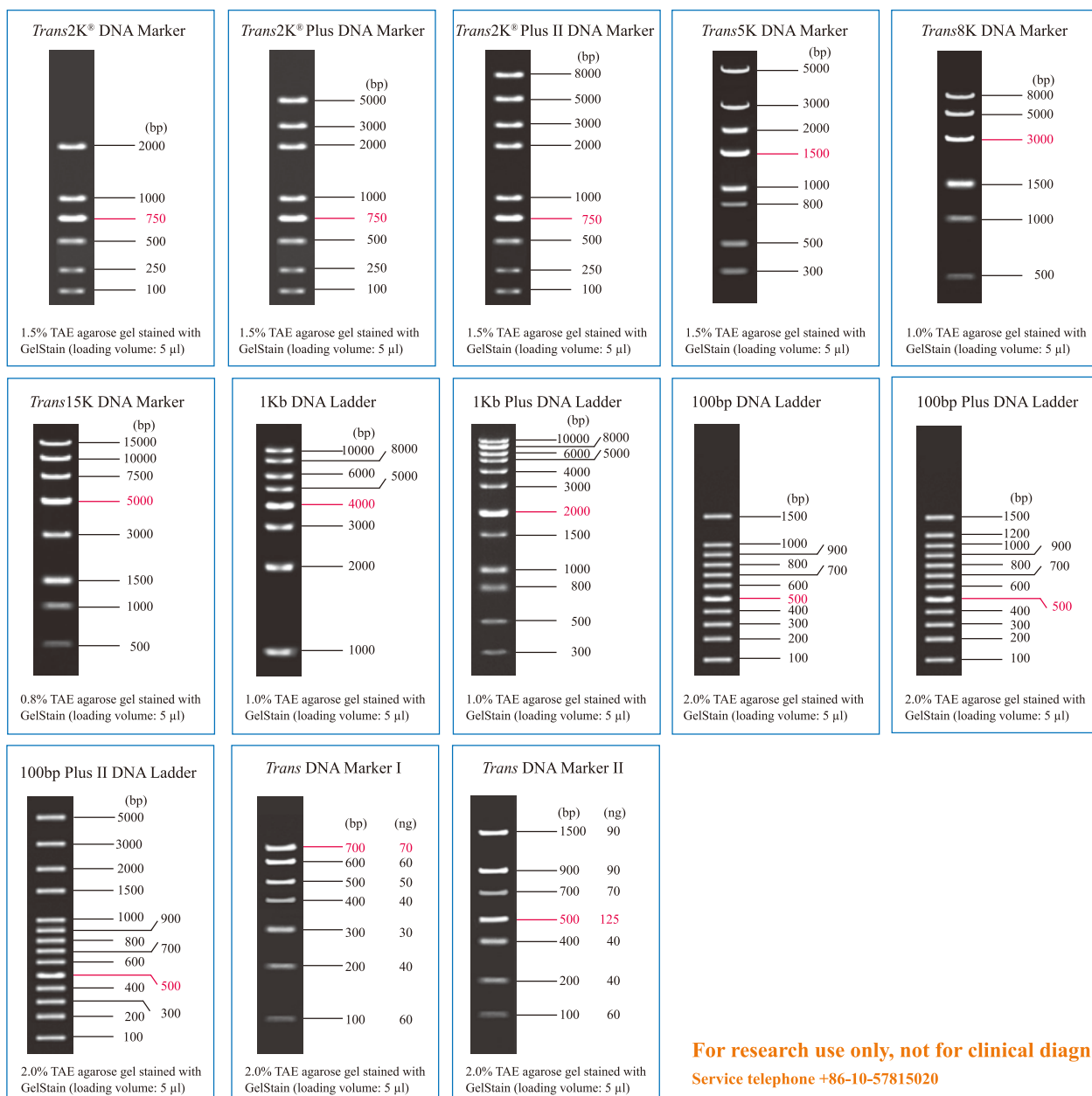


2.0% TAE agarose gel stained with GelStain  
(loading volume: 5 µl)



## Recommend Agarose Gel Percentages for Trans DNA Markers

| DNA Marker                                     | Agarose | DNA Marker                 | Agarose |
|------------------------------------------------|---------|----------------------------|---------|
| <i>Trans2K</i> <sup>®</sup> DNA Marker         | 1.5%    | 1Kb DNA Ladder             | 1.0%    |
| <i>Trans2K</i> <sup>®</sup> Plus DNA Marker    | 1.5%    | 1Kb Plus DNA Ladder        | 1.0%    |
| <i>Trans2K</i> <sup>®</sup> Plus II DNA Marker | 1.5%    | 100bp DNA Ladder           | 2.0%    |
| <i>Trans5K</i> DNA Marker                      | 1.5%    | 100bp Plus DNA Ladder      | 2.0%    |
| <i>Trans8K</i> DNA Marker                      | 1.0%    | 100bp Plus II DNA Ladder   | 2.0%    |
| <i>Trans15K</i> DNA Marker                     | 0.8%    | <i>Trans</i> DNA Marker I  | 2.0%    |
|                                                |         | <i>Trans</i> DNA Marker II | 2.0%    |



**For research use only, not for clinical diagnosis.**

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