



## NOVIN GITI GENE

# Taq DNA Polymerase

500 units/100 µl

**Taq DNA Polymerase** is an easy-to-use, recombinant thermo stable DNA polymerase for standard PCRs.

### Applications:

- Routine PCR
- Gene Cloning
- Gene expression assays (semi-quantitative RT-PCR and quantitative RT-PCR)

### Highlights:

A native thermo stable DNA polymerase with thermal stability at high temperatures.

Ability to amplify the DNA fragments ranging 100-8000 base pairs.

High fidelity proved for gene cloning purposes (more than 20 PCR products are sequenced and confirmed by alignment).

*Taq* DNA polymerase is ideal for all routine PCR applications.

Supplied with optimized buffer containing basal quantity of  $Mg^{2+}$  from  $MgCl_2$  solution.

### PCR Test:

Good performance of DNA amplification by PCR was confirmed by using multiple primers, templates and volumes. The PCR products ranging from 100 to 8000 bp in length is obtained ( Fig. 1 & 2).

### Protocol:

H <sub>2</sub> O	14.7 µl
PCR buffer 10x	2.0 µl
dNTP Mix 10 mM	0.5 µl
Forward Primer 10 µM	1.0 µl
Reverse Primer 10 µM	1.0 µl
Target DNA 50ng/µl	1.0 µl
<i>Taq</i> DNA Polymerase	0.2 µl
Reaction Volume	20.0 µl



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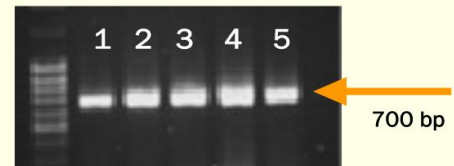


Fig.1

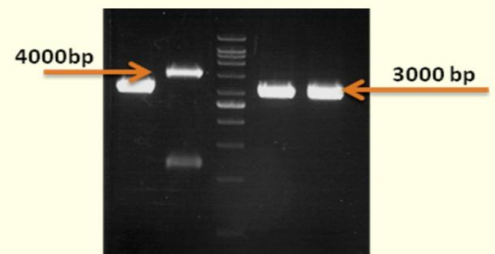


Fig.2