

# ProTaq Plus DNA Polymerase

Cat No: PT-526-2U  
SA-526-2U

Size : 500 units(250 µl)  
25 units(12.5 µl)

Concentration: 2 units/µl

## Product Description:

ProTaq Plus DNA Polymerase has an error rate of approximately 1 error per  $1.0 \times 10^5$  nucleotides incorporated. PCR products generated with ProTaq Plus DNA Polymerase are A-tailed and may be cloned into TA cloning vectors. It can amplify up to 5kb specific DNA fragment from lambda DNA after 25 cycles.

## Components: Store at -20 °C

- Storage Buffer :  
50 mM Tris-HCl (pH 8.0), 1 mM EDTA, 1 mM DTT, 50% (v/v) glycerol
- Reaction Buffer : 10X Buffer contains  
100 mM Tris-HCl (pH 9.0), 500 mM KCl, 0.1% (w/v) gelatin, 15 mM MgCl<sub>2</sub>,  
1% Triton X-100

## General Protocol:

### Recommended PCR reaction mix:

Components	Quantity
ProTaq Plus DNA Polymerase (2 U/µl)	1.3 µl
10x Reaction Buffer	5 µl (1x)
25 mM MgCl <sub>2</sub>	0 - 5 µl ( 0 - 2.5 mM)
10 mM dNTP mix	1 µl ( 200 µM)
Primer-Forward	0.3 - 1 µM
Primer-Reverse	0.3 - 1 µM
DNA template	1 - 100 ng
Sterile water	Up to 50 µl
Total	50 µl

\*

### Recommended PCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	2 - 5 min	1
Denaturation	95°C	30 - 60 s	25 - 35
Annealing	50 - 68 °C	30 - 60 s	
Elongation	72°C	1 - 3 min	
Final elongation	72°C	5 - 10 min	1
stored	4°C	60 min	1

\*IMPORTANT: Annealing temperature should be 2-6°C lower than the primer melting temperature.

***For Research Using Only.***

***Please do not hesitate to contact us if you have any questions.***

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