

## 2X EF-Taq PCR Smart Mix (without dye)

Cat.No.: OEF01-M01

**Description:** 2X EF-Taq PCR Smart mix includes EF-Taq DNA Polymerase, Buffer, dNTP, and MgCl<sub>2</sub> for general and long fragment PCR amplification. The product is recommended to use for amplifying 40kb or less.

### Storage

- 1 year and 6 months when stored at -20 °C ± 5 °C

### Recommended PCR mixture and cycling condition

PCR mixture (Reaction vol. 50µL)		Cycle		
2X EF-Taq PCR Smart Mix	25µL	95°C	2 min	×1
Forward primer (10pmol/µL)	2µL	95°C	20 sec	} ×25-40
Reverse primer (10pmol/µL)	2µL	AT	40 sec	
Template DNA	-µL	72°C	1min/kb	
Add D.W to	50µL	72°C	5 min	×1
		8°C	∞	

### Note:

- The amount of template depends on the target size to be amplified, the T<sub>m</sub> of the primer, and the type of template. Extension time, annealing temperature, and cycle number must be adjusted.
- Generally, the recommended extension time is 1min/kb, and 1.5~2min/kb for 3kb or more.
- When amplifying more than 5kb, the extension temperature is lowered from 72°C to 68 °C.