

## Multiplex PCR Smart Mix (2X)

Cat.No.: OMP01-M

**Description:** 2X Multiplex PCR is designed to amplify multiple targets from single template in single PCR tube using *h-Taq* DNA polymerase, chemically modified Hot Start enzyme. *h-Taq* DNA polymerase is useful for multiplex PCR, genotyping, microsatellite due to its high specificity. Recommended for amplifying less than 1kb PCR product.

### Product contents:

- 1) 2X Multiplex PCR Smart Mix

**Storage:**  $-20^{\circ}\text{C}$

**Expiration date:** 1 year and 6 months under proper storage condition.

### Recommended PCR mixture and cycling condition

PCR mixture (Reaction vol. 50 $\mu\text{L}$ )		Cycle		
2X Multiples PCR Smart Mix	25 $\mu\text{L}$	95 $^{\circ}\text{C}$	15 min	$\times 1$
Forward primer (10 $\text{pmol}/\mu\text{L}$ )	2 $\mu\text{L}$	95 $^{\circ}\text{C}$	20 sec	} $\times 35-40$
Reverse primer (10 $\text{pmol}/\mu\text{L}$ )	2 $\mu\text{L}$	AT	40 sec	
Template DNA (<300ng)	- $\mu\text{L}$	72 $^{\circ}\text{C}$	1 min/kb	
Add D.W to	50 $\mu\text{L}$	72 $^{\circ}\text{C}$	5 min	$\times 1$

- The template, extension time, annealing temperature, and the number of PCR cycles may be modified according to the target size, primer's  $T_m$ , and the type of templates for amplification.
- General extension time is 1minute per 1kb.
- Repeated freeze-thaw cycle may reduce the yield of PCR amplification.