

Ver.24091

## 2X HRM Master Mix

Cat.No.OHRM-M

**Description:** High Resolution Melting (HRM) analysis is a post-PCR analysis method used to identify genetic variation in nucleic acid sequences. HRM Master Mix (2X) provides optimized system for accurate and easy real-time PCR using an intercalating reagent. Mixed *h-Taq* DNA polymerase enables high specific DNA amplification due to its capability of Hot Start and multiplex PCR amplification.

### Product contents

- 1) 2X HRM Master Mix

### Storage

- Store at  $-20^{\circ}\text{C}$

### Applications

- Low background fluorescence.
- High brightness in the presence of double-stranded DNA.
- Minimal temperature shift of DNA melting due to dye binding.
- Thermal stability to tolerate PCR cycling conditions.
- No inhibition of polymerase activity, resulting in high PCR efficiency.

### Recommended PCR mixture and cycling condition

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

- You may modify the amount of template, extension time, annealing temperature, and the number of PCR cycles according to the target size, primer's  $T_m$ , and the type of templates for amplification.