

# RealMOD™ Probe R<sup>2</sup> 2X qPCR mix (with UDG)



- Prevention of false positive by applying **UDG system**
- **Multiplex PCR** of up to 5 channels available
- **Fast PCR protocol** can be applied within 50 minutes
- Minimize Non-specific Signal and Primer dimer with **Hot Start Function**
- Excellent **Reproducibility** and enhanced **Stability** against interfering substances

Optimal performance results could be obtained when used with FaSTARamp96

# RealMOD™ Probe R<sup>2</sup> 2X qPCR mix (with UDG)

## Description

RealMOD™ Probe R<sup>2</sup> 2X qPCR mix (with UDG) is a TaqMan Probe Type product that enables quantitative PCR using DNA. The UDG System was applied, and the product amplified through the RealMOD R<sup>2</sup> qPCR Kit contains Uracil. Therefore, in the second experiment, by the UDG System, Uracil-containing DNA can be degraded to significantly reduce false positives for PCR amplicon. In addition, it has a hot start function, so the dimer generation rate is low. It has the advantage of excellent reproducibility and high stability against interfering substances, and it is a product that can adjust the capacity according to the conditions of use as it is provided in 2X MasterMix type.

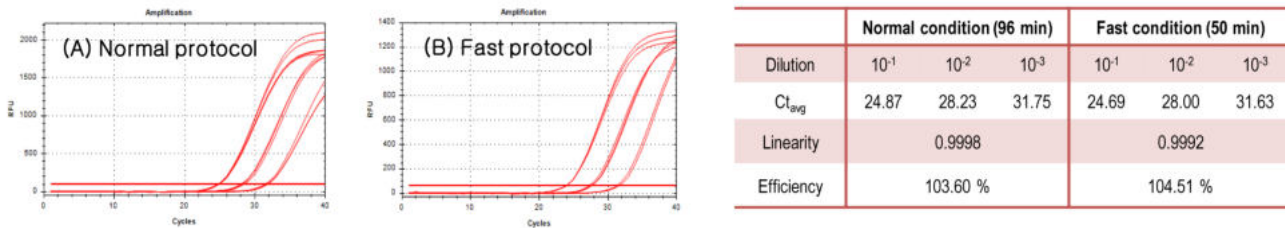


## RealMOD™ Probe R<sup>2</sup> 2X qPCR mix (with UDG)

Cat. No.	25363
Size	200rxn, 500rxn 1000rxn
Type	Real-time PCR
	2X MasterMix Solution
	TaqMan Probe Type

## Performance

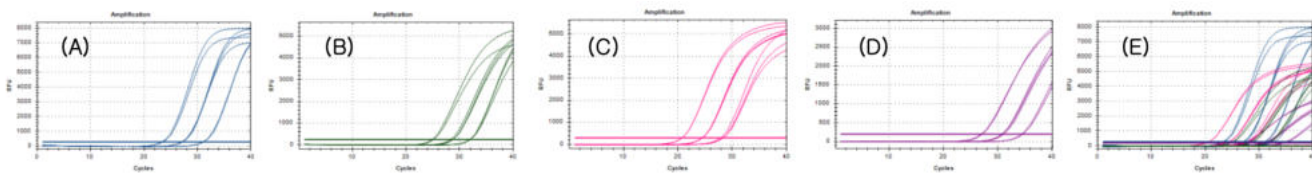
Figure 1. Performance comparison between normal and fast protocols using RealMOD R<sup>2</sup> 2X qPCR mix (w/UDG)



It was confirmed that the PCR reaction time was equivalent to the normal condition even under the condition of shortening the reaction time to 50 minutes.

- Template : *Treponema varginallis* DNA 10-fold dilution serially
- (A) Normal PCR condition (96 min) / (B) Fast PCR condition (50 min)

Figure 2. PCR performance evaluation when applying multiplex



	Target 1			Target 2			Target 3			Target 4		
Dilution	10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>
Ct <sub>avg</sub>	23.28	26.94	30.64	25.01	28.59	31.96	20.72	24.10	27.71	27.05	30.92	34.58
Linearity	1.0000			0.9997			0.9997			0.9997		
Efficiency	110.78 %			104.61 %			105.29 %			113.41 %		

Multiplex PCR was applied to simultaneously detect 4 types of targets in one tube, and the results of testing by diluting each DNA

Confirmation that dynamic range and PCR efficiency (100% ±15) are normally implemented.

(A : *C. trachomatis* DNA, B : *N. gonorrhoeae* DNA, C : *T. vaginalis* DNA, D : *M. genitalium* DNA, E : 4 plex Multiplex PCR)

## Real-time PCR System

Category	Product	Cat. No.	Size
Equipment	FaSTARamp96 Real-time PCR System	IMC-FAST-A96	1 System

