

# Dengue Virus Genotyping(I/II/III/IV) Nucleic Acid Multiplex Detection Kit (Fluorescence PCR Method)

Dengue fever is a disease caused by the Dengue Virus, transmitted primarily by mosquitoes, and infects more than 390 million people each year. Although most infected people are asymptomatic or suffer from self-limiting dengue, up to 1 million clinical cases develop severe manifestations, including dengue hemorrhagic fever and shock syndrome, resulting in about 25,000 deaths each year, mainly among children. It is one of the fastest growing infectious diseases worldwide and is now entrenched in a growing number of large tropical cities.

The Tianlong Dengue Virus Genotyping(I/II/III/IV) Nucleic Acid Multiplex Detection Kit is for the genotyping detection of Dengue virus I/II/III/IV types nucleic acid by Real-time reverse transcription Polymerase Chain Reaction (Real-time RT-PCR) method.

## FEATURES



### Confidence in Results

Differential diagnostics of Dengue Virus Genotyping(I/II/III/IV) nucleic acid in serum sample



### High Sensitivity and Specificity

Provides a real-time RT-PCR based test solution that detects Dengue Virus Genotyping(I/II/III/IV) with a high degree of sensitivity and specificity



### High Precision

The precision values of intra and inter Ct values were all  $\leq 5\%$



### User-friendly

Widely applicable in instruments with FAM, VIC (HEX), Texas Red, Cy5 fluorescence channels



### More Accessible

CE marked, accessible for more countries

## DATA INTERPRETATION

Figure 1: High Concentration Dengue Virus Amplification Curve

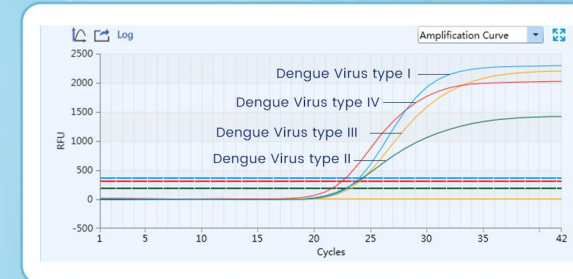
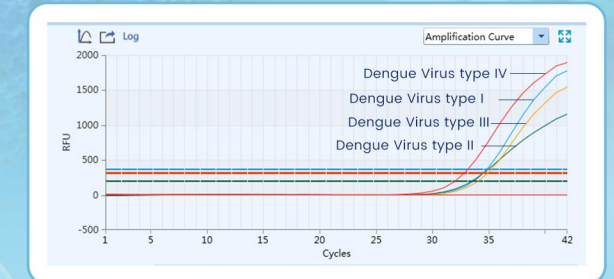


Figure 2: Low Concentration Dengue Virus Amplification Curve



## ORDERING INFORMATION

<b>Product Name</b>	Dengue Virus Genotyping(I/II/III/IV) Nucleic Acid Multiplex Detection Kit (Fluorescence PCR Method)	
<b>Cat.No</b>	P257H	P657H
<b>Specification</b>	25T/Kit	50T/Kit
<b>Specimen</b>	Serum	
<b>Sensitivity</b>	Dengue Virus Genotyping(I/II/III/IV)	
<b>Precision</b>	500 copies/mL	
<b>Target pathogene</b>	$\leq 5\%$	
<b>Storage &amp; Validity</b>	$-25^{\circ}\text{C} \sim -15^{\circ}\text{C}$ for 12 months	
<b>Applicable Equipment</b>	Instruments with FAM, VIC (HEX), Texas Red, Cy5 fluorescence channels such as Tianlong Gentier Real-time PCR Systems, Applied Biosystems™ 7500 Real-Time PCR Systems	

## ASSAY WORKFLOW

- 1 Sample Collection
- 2 Nucleic Acid Extraction
- 3 PCR Detection
- 4 Analysis and Report

