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# Human B-raf Gene V600E Mutation Detection Kit

(Fluorescent PCR Method)

Studies have shown that B-raf gene mutation exists in a variety of malignant tumors such as non-small cell lung cancer and colorectal cancer. Among them, V600E point mutation on exon 15 is the most common, accounting for more than 90%. This mutation leads to abnormal activation of B-raf protein, which leads to the failure of treatment of patients to receive EGFR-TKI drugs and EGFR monotherapy.

Based on the real-time fluorescent PCR platform, this kit is used to detect B-raf gene V600E mutation by combining alleles specific amplification (ARMS) technology, wild-type gene amplification inhibition technology and multiple PCR technologies. The test result of this kit can assist the clinician in developing drug regimens for patients with non-small cell lung cancer and colorectal cancer.

## FEATURES



### High Sensitivity

Reliable detection of V600E mutations in the B-raf gene, sensitive to detect up to 1% mutation in B-raf gene



### Internal Control

The use of internal control system in the kit can effectively prevent false negative results



### High Precision

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



### User-friendly

Widely applicable in instruments with FAM, ROX/Texas Red fluorescence channels



### More Accessible

CE marked, accessible for more countries

## DATA INTERPRETATION

Figure 1: Gradient concentration samples amplification curve

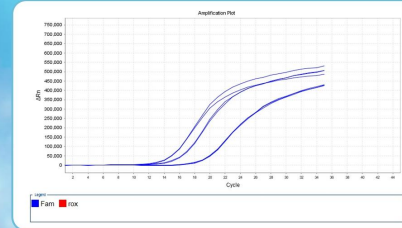
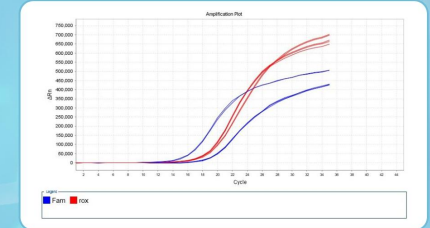


Figure 2: High concentration and low concentration samples repetitive amplification curve



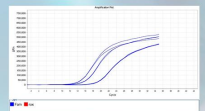
**Positive standard: The sample mutation signal (FAM channel) was detected to be positive for B-raf gene V600E mutation with a typical s-type amplification curve and a Ct value of no more than 32.**

## ORDERING INFORMATION

<b>Product Name</b>	Human B-raf Gene V600E Mutation Detection Kit (Fluorescence PCR Method)
<b>Cat.No</b>	P111H
<b>Specification</b>	20T/Kit
<b>Specimen</b>	Paraffin-embedded pathological tissue sections of non-small cell lung cancer and colorectal cancer
<b>Type of Analysis</b>	Qualitative
<b>Target Gene</b>	Human B-raf Gene V600E Mutation
<b>Precision</b>	$\leq 5\%$
<b>Storage &amp; Validity</b>	-25°C~-15°C for 6 months
<b>Applicable Equipment</b>	Instruments with FAM, ROX/Texas Red fluorescence channels such as ABI7500 real time PCR system, Linegene FQD-96A real time PCR system, Tianlong Gentier Real-time PCR Systems

## ASSAY WORKFLOW

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



version 2.0

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