



# Clarity™ EGFR T790M Mutation Quantification Kit

The C2615T mutation results in an amino acid substitution at position 790 in human epidermal growth factor receptor (EGFR), from a threonine (T) to a methionine (M). Patients who develop T790M mutation acquire resistance to first line EGFR tyrosine kinase inhibitor therapy and as such, monitoring the T790M mutation status is crucial to guide treatment decisions. The Clarity™ EGFR T790M Mutation Quantification Kit provides ready-to-use reagents optimized for sensitive detection and quantification of T790M mutant DNA from human plasma or serum using the Clarity™ digital PCR system (Cat. No. 10001).

## Features



### Reproducibility

Precise quantification of T790M mutation abundance



### Ease of Use

Low hands-on-time, compatible with most conventional thermal cyclers



### High Sensitivity

Detect as low as 0.1% of T790M mutant DNA



### Manufactured in Singapore

Under ISO13485 certification



### High Throughput Analysis

Analyze up to 96 reactions in 4 hours



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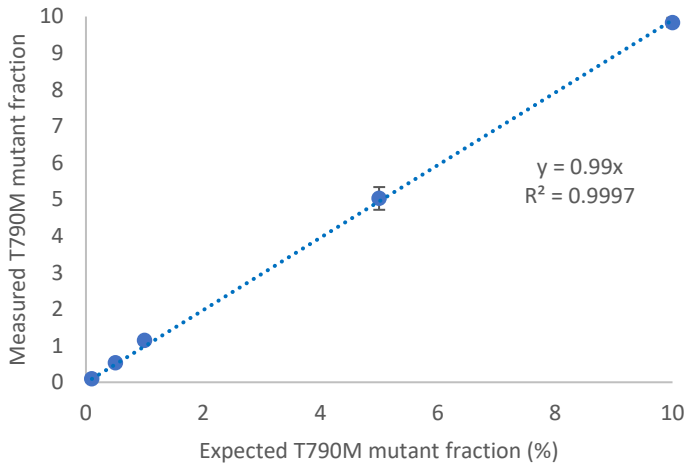


Figure 1. Plot of measured T790M mutant fraction against its expected mutant fraction using Clarity™ EGFR T790M Mutation Quantification Kit.

## Product Performance

Clarity™ EGFR T790M Mutation quantification kit detected as low as 0.1% of T790M mutant DNA in a high background of 15,000 copies of wild-type EGFR. When the data was plotted against the expected mutant fraction, the results showed excellent linearity from 10% down to 0.1% with an R<sup>2</sup> value of 0.9994.

## Product Specification

<b>Technology</b>	Digital PCR
<b>Target Sequence</b>	EGFR wild-type and T790M mutant DNA
<b>Sensitivity (LOD)</b>	0.1% mutation
<b>Time to Result</b>	< 4 h
<b>Specimen Type</b>	Human plasma or serum samples
<b>Reporting Format</b>	Ratio of mutant versus wild-type target
<b>Instrument Tested</b>	Clarity™ digital PCR system (Cat. No. 10001)
<b>Additional Material Required</b>	Clarity™ consumables package (Cat. No. 10011)
<b>Detection Channels</b>	FAM (T790M mutant DNA), HEX (EGFR wild-type DNA)
<b>Kit Storage</b>	-20°C, avoid repeated freezing and thawing of kit contents

## Ordering Information

Product Name	Description	Cat. No.
<b>Clarity™ EGFR T790M Mutation Quantification Kit</b> <i>For research use only</i>	48 Reactions	10016



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