



# Clarity™ EGFR L858R Mutation Quantification Kit

The T2573G mutation results in an amino acid substitution at position 858 in human epidermal growth factor receptor (EGFR), from a leucine (L) to an arginine (R). The L858R mutation accounts for the majority of EGFR-mutated non-small cell lung cancer (NSCLC), and it displays higher sensitivity to first line EGFR tyrosine kinase inhibitor therapy as compared to wild type EGFR. Therefore, monitoring L858R mutation status is crucial for the prescription of targeted therapies and prediction of their clinical responses. The Clarity™ EGFR L858R Mutation Quantification Kit provides ready-to-use reagents optimized for sensitive detection and quantification of L858R mutant DNA from human plasma or serum using the Clarity™ digital PCR system (Cat. No. 10001).

## Features



### Reproducibility

Precise quantification of L858R mutation abundance



### Ease of Use

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



### High Sensitivity

Detect as low as 0.1% of L858R mutant DNA



### Manufactured in Singapore

Under ISO13485 certification



### High Throughput Analysis

Analyze up to 96 reactions in 4 hours

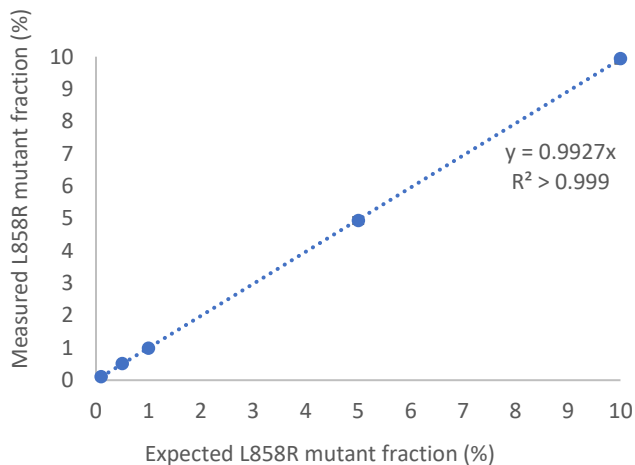


Figure 1. Plot of measured L858R mutant fraction against its expected mutant fraction using Clarity™ EGFR L858R Mutation Quantification Kit.

## Product Performance

Clarity™ EGFR L858R Mutation Quantification Kit detected as low as 0.1% of L858R mutant DNA in a high background of 15,000 copies of wild-type EGFR. When measured L858R mutant fraction was plotted against the expected mutant fraction, the results showed excellent linearity from 10% down to 0.1% with an  $R^2$  value > 0.999.

## Product Specification

<b>Technology</b>	Digital PCR
<b>Target Sequence</b>	EGFR wild-type and L858R 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 (L858R 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 L858R Mutation Quantification Kit</b> <i>For research use only</i>	48 Reactions	10019