

Clarity™ EGFR T790M Mutation Quantification Kit (48 Reactions)



- Accurate and sensitive detection
- Absolute quantification
- Easy-to-use digital PCR kit
- Fast analysis



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).



REPRODUCIBILITY

Precise quantification of T790M mutation abundance



HIGH SENSITIVITY

Detect as low as 0.1% of T790M mutant DNA



EASE OF USE

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



HIGH THROUGHPUT ANALYSIS

Analyze up to 96 reactions in 4 hours



CLARITY™ EGFR T790M MUTATION QUANTIFICATION KIT

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^2 value of 0.9994.

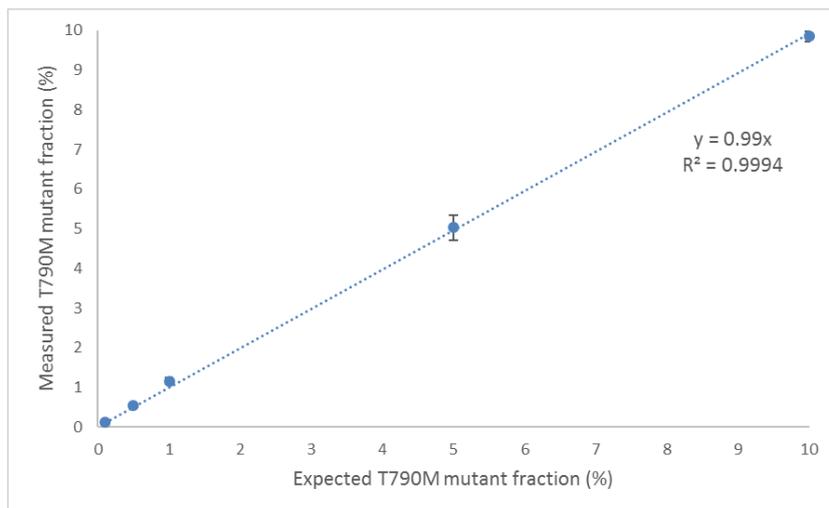


Figure 1. Plot of measured T790M mutant fraction against its expected mutant fraction using Clarity™ EGFR T790M mutation quantification kit.

Product Specification

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

Ordering Information

Product Name	Description	Catalogue Number
Clarity™ EGFR T790M Mutation Quantification Kit	48 Reactions	10016

jnmedsys



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