

Simple. Reliable. Effective.



# OncoPlex<sup>®</sup> BRAF Mutation Test Kit

The GeneFirst **OncoPlex<sup>®</sup> BRAF Mutation Test Kit** (RUO) is a real-time PCR-based test that detects 5 activating mutations in the human BRAF gene with high sensitivity. This test is based on the GeneFirst proprietary technology, MMD, which is a combination of specially designed mutation-specific primers, blocker-probe and unique cycling conditions that facilitate selective amplification of multiple mutant alleles – at the same time, blocking amplification from wild type (normal) allele. This allows for the detection of rare mutations against a high background of normal, non-mutated genomic DNA.

## Specifications

Sample type	DNA from blood or FFPE tissue	Compatible qPCR platform	Applied Biosystems <sup>®</sup> 7500 bio-rad CFX96 Touch <sup>™</sup> LightCycler <sup>®</sup> 480
Target sequence	V600E (GTG>GAG; GTG>GAA); V600D, V600K, V600R	Extraction/inhibition controls	Internal human DNA
Limit of detection	0.1% (30ng total DNA) 1% (5-30ng total DNA)	Kit storage	-20 °C
Contamination control	Uracil-N-Glycosylase	Kit Format	1 closed-tube assay

## Key Features

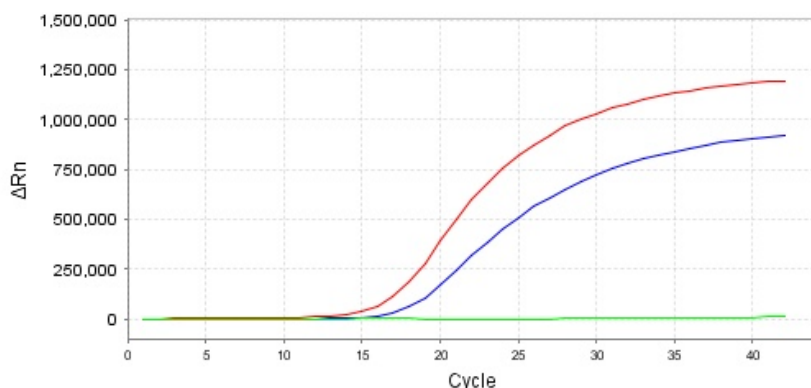
**High multiplexing** - detection of multiple mutations in a single analysis

**Reduced reaction tubes** to preserve clinical material

**Sensitive simple real-time PCR reaction** - detecting up to 1% mutation

**Internal endogenous control** to further reduce the number of reactions required

## Amplification Plot



Representative amplification curves in FAM/HEX for 1% mutation (blue) and wild type DNA (green). Representative amplification curve in ROX (red) for Internal Control which is amplified in conjunction with mutant DNA. Y axis =  $\Delta Rn$ , X axis = cycle number

Catalogue number	Product name	Pack size	Intended use
MMD003	OncoPlex <sup>®</sup> BRAF Mutation Test Kit	Customisable	Research use only

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