

The GeneFirst **OncoPlex<sup>®</sup> ABL Mutation Detection Kit** (RUO) is a real-time PCR-based test that detects T315I activating mutation in the human *BCR-ABL1* 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

<b>Sample type</b>	DNA from blood or FFPE tissue	<b>Compatible qPCR platform</b>	Applied Biosystems <sup>®</sup> 7500 Bio-Rad CFX96 Touch <sup>™</sup> LightCycler <sup>®</sup> 480
<b>Target sequence</b>	T315I	<b>Extraction/inhibition controls</b>	Internal human DNA
<b>Limit of detection</b>	1% (30 ng total DNA)	<b>Kit storage</b>	-20 °C
<b>Contamination control</b>	Uracil-N-Glycosylase	<b>Kit format</b>	1 closed-tube assay

### Key Features

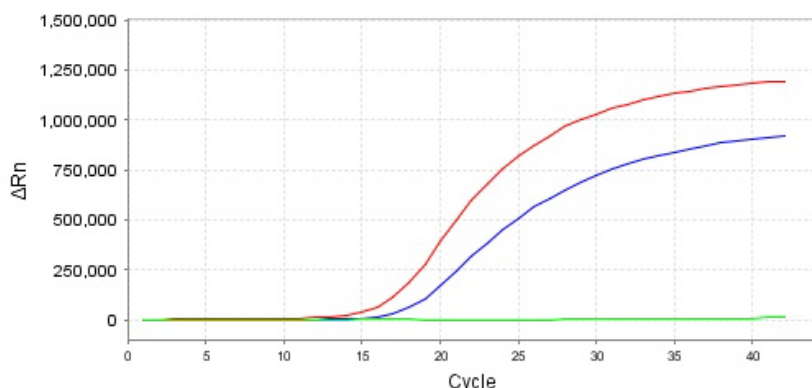
**High multiplexing** - detection of multiple mutations in a single analysis

**Reduced number of 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 = ΔRn, X axis = cycle number

Catalogue number	Product name	Pack size	Intended use
MMD005	OncoPlex <sup>®</sup> ABL Mutation Detection Kit	24 reactions	Research use only

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