



BIOSALAB
MOLECULAR BIOLOGY SOLUTIONS

OncoPlex® EGFR Mutation Test Kit

The GeneFirst **OncoPlex® EGFR Mutation Test Kit** (RUO) is a real-time PCR-based test that detects 29 different mutations 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.

EGFR mutations detectable by OncoPlex® EGFR Mutation Test Kit

Mutation	Base Change	Reaction Mix	Fluorescence Channel	Resistance Category
T790M (exon 20)	2369C>T	A	FAM	Resistant to TKIs
G719C (exon 18)	2156G>T	A	HEX	Sensitive to TKIs
L861Q (exon 21)	2582T>A	B	FAM	Sensitive to TKIs
G719S (exon 18)	2156G>A	B	HEX	Sensitive to TKIs
G719A (exon 18)	2156G>C	B	HEX	Sensitive to TKIs
Exon 20 insertion	2307_2308ins9	C	FAM	Resistant to TKIs
Exon 20 insertion	2310_2311insGGT	C	FAM	Resistant to TKIs
Exon 20 insertion	2319_2320insCAC	C	FAM	Resistant to TKIs
S768I (exon 20)	2303G>T	C	FAM	Resistant to TKIs
L858R (exon 21)	2573T>G	D	FAM	Sensitive to TKIs
Exon 19 deletions	All deletions	D	HEX	Sensitive to TKIs

* Kit contains 4 closed-tube reactions

Key Features

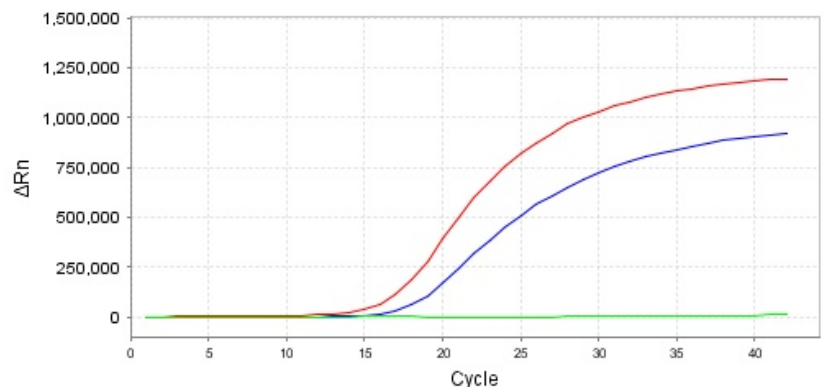
High multiplexing - detection of multiple mutations in a single analysis

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 = ΔRn , X axis = cycle number

Catalogue number	Product name	Pack size
MMD001	OncoPlex® EGFR Mutation Test Kit	Customisable



BIOSALAB, S.L. - info@biosalab.com