

Simple. Reliable. Effective.



gene**first**

OncoPlex® JAK2 Mutation Test Kit

The GeneFirst **OncoPlex® JAK2 Mutation Test Kit** (RUO) is a real-time PCR-based test that detects 617F activating mutation in the human *JAK2* 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® 7500 bio-rad CFX96 Touch™ LightCycler® 480
Target sequence	V617F (GTC>TTC)	Extraction/inhibition controls	Internal human DNA
Limit of detection	1% (30ng total DNA)	Kit storage	-20 °C
Contamination control	Uracil-N-Glycosylase	Assay Format	1 closed-tube assay

Key Features

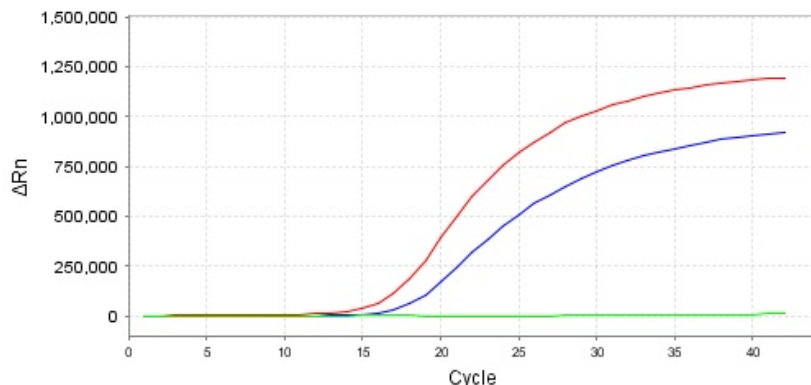
High multiplexing - detection of multiple mutations in a single analysis

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 = ΔRn , X axis = cycle number

Catalogue number	Product name	Pack size	Intended use
MMD004	OncoPlex® JAK2 Mutation Test Kit	Customisable	Research use only

GeneFirst Limited

Bldg E5, Culham Science Centre, Abingdon, Oxfordshire, OX14 3DB, United Kingdom

Phone: +44 (0) 1865 407 400

Email: sales@genefirst.com Web: www.genefirst.com

