



# Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



# JAK2 V617F Mutation Analysis - Quantitative

## Alternative Name

JAK2 V617F Quantitative Analysis

## Methodology

Molecular

## Test Description

Quantitative detection of the V617F mutation, which is commonly found in myeloproliferative neoplasms (MPN). DNA is isolated and subjected to allele-specific polymerase chain reaction (PCR) amplification. Test report includes a bar graph to trend the mutational load.

## Clinical Significance

The JAK2 V617F mutation is present in approximately 90% of polycythemia vera (PV) cases and approximately half of primary myelofibrosis (PMF) or essential thrombocythemia (ET). Quantitation of V617F is useful for monitoring MPN patients' response to clinical treatment as V617F mutational load correlates with disease course, therefore can be used as a predictive marker.

## Specimen Requirements

- **Bone Marrow Aspirate:** 2-3 mL in EDTA tube (Preferred); Heparin (Acceptable)
- **Peripheral Blood:** 3-5 mL in EDTA tube (Preferred); Heparin (Acceptable)

Note: Test in DNA-based, suitable for Freeze & Hold option.

## Storage & Transportation

Use cold pack for transport, making sure cold pack is not in direct contact with specimen. Ship same day as drawn whenever possible; specimens <72 hours old preferred.

## CPT Code(s)\*

81270 (x1)

## New York Approved

Yes

## Level of Service

Global

## Turnaround Time

7 Days

\*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

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Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.

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