



LABORATORY REPORT

QC ACCOUNT (WARDE)
300 W. TEXTILE
ANN ARBOR MI 48108

EXAMPLE, REPORT
WX0000000158 M 07/08/1968

Collected: 11/11/2025 14:17

Received: 11/11/2025 14:17

JAK2 with reflex to NGS for ex12/CALR/MPL

| Test Name | Result | Flag | Ref-Ranges | Units | Site |
|-------------------------------------|--------------|------|------------|-------|------|
| Specimen Source | Whole Blood | | | | WMRL |
| JAK2 V617F Mutation by PCR | DETECTED | AB | | | WMRL |
| Percent of WBCs with V617F Mutation | 5.0 | AB | <=0.1 | % | WMRL |
| Variant 1 Information | JAK2 p.V617F | | | | WMRL |
| Interpretation | SEEBELOW | | | | WMRL |

A JAK2 p.V617F (c.1849G>T) mutation is detected by qPCR at the stated WBC%. JAK2 V617F mutation is associated with myeloproliferative neoplasms (MPNs), including polycythemia vera (PV), essential thrombocythemia (ET), and primary myelofibrosis (PMF). NGS testing was not performed on this specimen.

Assay Info SEEBELOW WMRL

This assay utilizes quantitative polymerase chain reaction (qPCR) to detect and quantify the presence of JAK2 p.V617F mutation. If the sample is negative (or minimally positive) by PCR, Next Generation Sequencing (NGS) is performed to interrogate DNA from leukocytes for the presence of genomic alterations in exon 12 and exon 14 of JAK2, exon 9 of CALR, exon 10 of MPL (including codons 505 and 515), and exons 14 and 17 of CSF3R. The procedure targets specific loci through PCR enrichment, and the bioinformatics algorithm limits analysis to a discrete set of pathogenic mutations classified in the literature as definitional to diagnosis of myeloproliferative neoplasms. A complete list of variants reportable by this assay can be found on the Warde website (<https://wardelab.com/resources/forms>).

DNA was aligned to GRCh37 (hg19) for analysis. The transcripts IDs used as reference sequences are NM004972.3 (JAK2), NM_004343.3 (CALR), NM_005373.3 (MPL), and NM_000760.4 (CSF3R).

The lower limit for mutation detection in NGS is approximately 5% variant allele fraction by read proportion (VAF). JAK2 V617F qPCR sensitivity is 0.1%. Results of this assay should be correlated with morphology and other laboratory testing for final diagnosis and classification.

Performing Site:

WMRL: Warde Medical Laboratory 300 West Textile Road Ann Arbor MI 48108 (800)876-6522

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL,

Report Date: 11/18/2025 14:56

E311000010 Ordered By:CLIENT C CLIENT, MD

WMB-25-3803

WX0000000158 WX00000000000260

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