LABORATORY REPORT

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

EXAMPLE, REPORT
WX0000000237 F 12/05/1988

Collected: 11/11/2025 14:18 Received: 11/11/2025 14:18

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	Not detected				WMRL
Percent of WBCs with V617F Mutation	<0.1		<=0.1	%	WMRL
JAK2 V617F Mutation by NGS	Not detected				WMRL
JAK2 Exon 12 Mutation	Not detected				WMRL
CALR Exon 9 Mutation	Not detected				WMRL
MPL Exon 10 Mutation	Not detected				WMRL
CSF3R Mutation	Not detected				WMRL
Variant 1 Information	n/a				WMRL
Variant 2 Information	n/a				WMRL
Interpretation	SEEBELOW				WMRL

No mutations were detected in codon 617 or exon 12 of JAK2, exon 9 of CALR, exon 10 (codons 505 and 515) of MPL, or CSF3R (cytoplasmic tail truncations). Absence of mutations from these regions does not exclude the presence of a myeloproliferative neoplasm (MPN). Further evaluation for MPN could include BCR-ABL1 rearrangement or Myeloid NGS.

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

E311000011 Ordered By:CLIENT C CLIENT, MD WMB-25-3804

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Kajal V. Sitwala, MD, PhD - Medical Director

Printed D&T: 11/19/2025 8:01 AM