



Test Definition: MPNR

Myeloproliferative Neoplasm, JAK2 V617F with
Reflex to CALR and MPL, Varies

Reporting Title: MPN (JAK2 V617F, CALR, MPL) Reflex

Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Shipping Instructions:

Specimen must arrive within 7 days of collection.

Necessary Information:

The following information is required:

1. Pertinent clinical history
2. Clinical or morphologic suspicion
3. Date of collection
4. Specimen source

Specimen Requirements:

Submit only 1 of the following specimens:

Specimen Type: Whole Blood

Container/Tube: Lavender top (EDTA) or yellow top (ACD solution B)

Specimen Volume: 3 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send whole blood specimen in original tube. **Do not** aliquot.
3. Label specimen as blood.

Specimen Stability Information: Ambient (preferred)/Refrigerate 7 days

Specimen Type: Bone marrow

Container/Tube: Lavender top (EDTA) or yellow top (ACD solution B)

Specimen Volume: 2 mL

Collection Instructions:

1. Invert several times to mix bone marrow.
2. Send bone marrow specimen in original tube. **Do not** aliquot.
3. Label specimen as bone marrow.

Specimen Stability Information: Ambient (preferred)/Refrigerate 7 days

Specimen Type: Extracted DNA from blood or bone marrow

Container/Tube: 1.5- to 2-mL tube

Specimen Volume: Entire specimen

Collection Instructions: Label specimen as extracted DNA from blood or bone marrow and provide indication of volume and concentration of the DNA.

Specimen Stability Information: Frozen (preferred)/Refrigerate/Ambient

Forms:

If not ordering electronically, complete, print, and send a [Hematopathology/Cytogenetics Test Request](#) (T726) with the specimen.

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Specimen Type	Temperature	Time	Special Container
Varies	Varies	7 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
MPNR	MP023	Specimen Type	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
36687	Final Diagnosis	Alphanumeric		22637-3
39725	MPNR Result	Alphanumeric		No LOINC Needed

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

81270-JAK2 (Janus kinase 2) (eg, myeloproliferative disorder) gene analysis, p.Val617Phe (V617F) variant

81219-CALR (calreticulin) (eg, myeloproliferative disorders), gene analysis, common variants in exon 9 (if appropriate)

81339-MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene analysis; sequence analysis, exon 10 (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CALX	CALR, Gene Mutation, Exon 9, Reflex	1	81219	No	No, (bill only)
MPLR	MPL Exon 10 Mutation Detection, R	1	81339	No	No, (bill only)

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
MPLR	36672	Final Diagnosis	Alphanumeric		22637-3
CALX	36998	Final Diagnosis	Alphanumeric		22637-3

Reference Values:

An interpretive report will be provided.