

Patient: [REDACTED]  
DOB: [REDACTED] Age: [REDACTED] Gender: [REDACTED]  
Patient Identifiers: [REDACTED]  
Visit Number (FIN): [REDACTED]

Client: [REDACTED]  
Physician: [REDACTED]

ARUP Test Code: 2002360  
Collection Date: 10/19/2016  
Received in lab: 11/09/2016  
Completion Date: 11/14/2016

**Interpretation**

Specimen Received  
Specimen Type: Peripheral Blood  
Reason for Referral: MPD Panel  
Test Performed: FISH, MPD P

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**ABNORMAL FISH RESULTS**

8p12 (FGFR1): gain present  
9q34 (ABL1): gain present  
9q34 (ASS1): gain present

**NORMAL RESULTS**

4q12 (FIP1L1/CHIC2/PDGFRB): deletion / rearrangement not detected  
5q33.1 (PDGFRB): rearrangement not detected  
8p12 (FGFR1): rearrangement not detected  
t(9;22)(q34;q11.2) (ABL1;BCR): translocation not detected

**DIAGNOSTIC IMPRESSION:**

Fluorescence in situ hybridization (FISH) analysis was performed with the MPD Panel probes: PDGFRA (Abbott Molecular), PDGFRB, FGFR1 (Cytocell) and BCR/ABL1/ASS1 Tricolor (Abbott Molecular). 200 interphase cells were scored for each probe combination.

This analysis showed evidence of:

- 3 copies of the FGFR1 locus at 8p12 in 180/200 (90.0 percent) cells scored,
- 3 copies of the ABL1 locus at 9q34 accompanied by 3 copies of the ASS1 locus also at 9q43 in 14/200 (7.0 percent) cells scored.

FISH analysis with the remaining probes showed normal results.

Additional copies for the FGFR1 and ABL/ASS loci are suggestive of gain of chromosomes 8 and 9/9q.

NOTE: FISH MDS P was performed on this sample and reported under ARUP accession #(16294401342). FISH results were ABNORMAL and supportive of the results seen in this analysis.

Please correlate this result with clinical and other laboratory findings in this patient.

**Reference:**

Swerdlow SH, Campo E, Harris NL, Jaffe ES, Pileri SA, Stein H, Thiele J, Vardiman JW. (Eds.): WHO classification of Tumours of Haematopoietic and Lymphoid Tissues. IARC: Lyon 2008.

**ISCN:**

nuc ish(FIP1L1,CHIC2,PDGFRA)x2 [200]  
(PDGFRBx2) [200], (FGFR1x3) [180/200],  
(ASS1x3,ABL1x3,BCRx2) [14/200]



Patient: [REDACTED]  
ARUP Accession: 16-293-142171

# Myeloproliferative Disorders Panel by FISH

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Patient: [REDACTED] | Date of Birth: [REDACTED] | Gender: [REDACTED] | Physician: [REDACTED]  
Patient Identifiers: [REDACTED] | Visit Number (FIN): [REDACTED]

This result has been reviewed and approved by [REDACTED], MD, FACMG  
Electronic Signature

Test developed and characteristics determined by ARUP Laboratories. See Compliance  
Statement A: [aruplab.com/CS](http://aruplab.com/CS)



Patient: [REDACTED]  
ARUP Accession: 16-293-142171  
[REDACTED]