

Client: ARUP Example Report Only  
500 Chipeta Way  
Salt Lake City, UT 84108  
UNITED STATES

Physician: DR, TEST

**Patient: BMREFLEX, 2007130**

**DOB**

**Sex:** Unknown

**Patient Identifiers:** 50358

**Visit Number (FIN):** 50744

**Collection Date:** 7/6/2023 17:18

## Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray

ARUP test code 2007130

Chromosome Analysis, Bone Marrow

See Note

(Ref Interval: Normal)

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Test Performed: Chromosome Analysis  
Specimen Type: Bone Marrow  
Indication for Testing: New AML

Number of cells counted: 20  
Number of cells analyzed: 20  
Number of cells karyotyped: 20  
ISCN band level: 400  
Banding method: G-Banding  
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### RESULT

Abnormal karyotype (Male)

47,XY,+14,inv(16)(p13.1q22)[20]  
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### INTERPRETATION

This analysis showed a pericentric inversion of chromosome 16 and gain of chromosome 14 in each cell analyzed.

This finding is consistent with a diagnosis of AML with inv(16) or t(16;16). CBFB rearrangement is often associated with M4 morphology, with or without eosinophilia, and is usually associated with a favorable prognosis.

NOTE: FISH AML was performed on this sample and reported under ARUP accession [REDACTED] FISH results were ABNORMAL, showing signal patterns consistent with 16q22 (CBFB) rearrangement.

Since this analysis revealed an abnormal result, genomic microarray analysis, which was ordered as a reflex study, will not be performed unless we are notified otherwise. To proceed with this testing, please contact ARUP Genetics Processing at (800) 242-2787 ext. 3301.

### Recommendations:

As this is a cytogenetically difficult rearrangement to detect, FISH analysis with CBFB is recommended in addition to standard chromosome studies for increased sensitivity in follow-up studies.

This result has been reviewed and approved by [REDACTED]

INTERPRETIVE INFORMATION: Chromosome Analysis, Bone Marrow

This test was developed and its performance characteristics

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at:

**ARUP LABORATORIES | 800-522-2787 | aruplab.com**  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: BMREFLEX, 2007130  
ARUP Accession: 23-187-123783  
Patient Identifiers: 50358  
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determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

EER Chrom Analysis BM w/Rflx to Array

See Note  
Authorized individuals can access the ARUP Enhanced Report using the following link:

[Redacted Link]

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Chromosome Analysis, Bone Marrow	23-187-123783	7/6/2023 5:18:00 PM	7/6/2023 5:19:05 PM	7/6/2023 5:33:00 PM
EER Chrom Analysis BM w/Rflx to Array	23-187-123783	7/6/2023 5:18:00 PM	7/6/2023 5:19:05 PM	7/6/2023 5:33:00 PM

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

**ARUP LABORATORIES** | 800-522-2787 | [aruplab.com](http://aruplab.com)  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
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