

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB** 12/31/1752  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Cytogenomic Molecular Inversion Probe Array, FFPE Tissue - Oncology**

ARUP test code 2010229

Cytogenomic MIP Array, FFPE Normal (Ref Interval: Normal)

**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  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 20-113-104354  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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Specimen Received  
Specimen Type: FFPE Tumor  
Estimated Tumor Burden: 50 percent  
Reason for Referral: Test  
Test Performed: FFPE ARRAY  
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**NORMAL MICROARRAY RESULT**

Sex chromosome complement: XX (female)

**Interpretation:**

The FFPE microarray analysis showed no clinically significant DNA copy number changes or copy neutral loss of heterozygosity, and is consistent with a female chromosome complement.

Formalin-Fixed Paraffin-Embedded (FFPE) Molecular Inversion Probe Array was performed using the Affymetrix OncoScan FFPE Assay. This technology contains 220,000 probes across the genome for detection of copy number changes and loss of heterozygosity (LOH). Chromosome Analysis Suite, manufactured by Affymetrix, was used for the data analysis.

Patient hybridization parameters are normalized to a reference set derived from over 300 FFPE samples from unaffected tissues. Detected gains, losses and LOH are reported when found to have clear or suspected clinical relevance. Gains, losses and LOH devoid of relevant gene content or commonly detected in the general population may not be reported. Genomic linear positions correspond to the NCBI Genome Reference Consortium Human Build 37 (GRCh37/hg19).

The functional resolution of this assay varies across different samples and across the genome, dependent upon the size of the abnormality, probe density in the region, tumor content and quality of the DNA obtained. The limit of detection will range from approximately 400 kilobases genome-wide, with higher resolution in targeted regions containing cancer genes for samples with high tumor content (generally greater than 70 percent); to several megabases for samples with lower tumor content (30-40 percent). The limit of detection for LOH is approximately 3 megabases.

This test is used by ARUP Laboratories for the purpose of identifying DNA copy number gains and losses as well as copy-neutral LOH. This analysis will not detect all forms of polyploidy, balanced rearrangements (e.g., inversions and balanced chromosomal translocations), small deletions, point mutations, and some mosaic conditions. This technology cannot determine positional information regarding the genomic location of copy number alterations and may not be able to distinguish between mechanisms of origin for certain genomic aberrations. Validation of this assay was performed according to ACMG guidelines [American College of Medical Genetics and Genomics technical standards and guidelines: microarray analysis for chromosome abnormalities in neoplastic disorders. Cooley LD, Lebo M, Li MM, Slovak ML, Wolff DJ; Working Group of the American College of Medical Genetics and Genomics (ACMG) Laboratory Quality Assurance Committee. Genet Med. 2013 Jun;15(6):484-94]. While extensive efforts are made to analyze a variety of genomic alterations that may be encountered during clinical testing, analysis of all potential genomic aberrations is not practically feasible in a validation study.

\_\_\_\_\_s been reviewed and approved by \_\_\_\_\_

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INTERPRETIVE INFORMATION: Cytogenomic Molecular Inversion  
Probe Array, FFPE Tissue  
- Oncology

For detection of copy number alterations and loss of heterozygosity in FFPE specimens.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

EER Cytogenomic MIP Microarray, FFPE      EERUnavailable

Block ID      #####

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Cytogenomic MIP Array, FFPE	20-113-104354	4/22/2020 10:44:00 AM	4/22/2020 1:01:20 PM	4/22/2020 1:09:00 PM
EER Cytogenomic MIP Microarray, FFPE	20-113-104354	4/22/2020 10:44:00 AM	4/22/2020 1:01:20 PM	4/22/2020 1:09:00 PM
Block ID	20-113-104354	4/22/2020 10:44:00 AM	4/22/2020 1:01:20 PM	4/22/2020 1:05:00 PM

END OF CHART

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