

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

Physician: Doctor, Example

## Patient: Patient, Example

Gender: Unknown
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
<b>Collection Date:</b> 00/00/0000 00:00

## Cytogenomic Molecular Inversion Probe Array FFPE Tissue - Oncology

ARUP test code 3004275

Cytogenomic MIP Array, FFPE	Normal (Ref Interval: Normal) Test Performed: Cytogenomic Molecular Inversion Probe Array, FFPE Tissue Oncology (FFPEARRAY) Specimen Type: Lymph node Estimated Tumor Content: 95 percent Indication for Testing: History of mantle cell lymphoma		
	 RESULT SUMMARY Normal Microarray Result (Ma	le)	
	RESULT DESCRIPTION No clinically significant cop homozygosity were detected.	py number changes or regions of	
	INTERPRETATION This analysis showed a norma	l result.	
	Health care providers with qu counselor at (800) 242-2787	uestions may contact an ARUP genetic ext. 2141.	
	Cytogenomic Nomenclature (ISo arr(X,Y)x1,(1-22)x2	CN)	
	<pre>(Thermo Fisher Scientific) ad within the Genomic Microarray - This assay is designed to number state (gains and loss alterations (regions of homo: absence- or loss-of-heterozy - Copy-neutral LOH (CN-LOH) i (segmental or whole chromoso - AOH may be present due to p or uniparental disomy (UPD) - The detection sensitivity genomic region may vary depend of probes (markers), probe sp number and ROH determination - The OncoScan CNV array com- median probe density (kb/prol - Genome-wide resolution var for copy number changes and a samples with high tumor conta lower tumor content (greater recommended for this assay) - The limit of detection for dependent upon the size and</pre>	zygosity; ROH) that indicate an gosity (AOH or LOH) may be present due to acquired UPD me) parental relatedness (consanguinity) (resolution) for any particular ndent upon tumor burden, the number pacing, and thresholds for copy tains over 220,000 SNP probes with a	

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

Unless otherwise indicated, testing performed at:



from the same individual) or chimerism (cell lines from different individuals) will be detected when present at greater than 30 percent in the sample - Genomic coordinates correspond to the Genome Reference Consortium human genome build 37/human genome issue 19 (GRCh37/hg19)

Variant Classification and Reporting Criteria Variant Classification and Reporting Criteria
Variant analysis is performed in accordance with recommendations by the American College of Medical Genetics and Genomics (ACMG), using tiered classification terminology
Acquired/somatic or constitutional/germline cancer-associated copy number variants (CNVs) and ROH are classified and reported using the following clinical significance categories: Clinically Significant CNVs and/or ROH (Tier 1 and Tier 2 Variants) and Other Clonal Variants (Tier 3)
Constitutional/germline CNVs not associated with cancer are

Constitutional/germline CNVs not associated with cancer are classified according to the ACMG recommended 5-tier classification system: pathogenic, likely pathogenic, variant of uncertain significance (VUS), likely benign, and benign -In general, only constitutional CNVs classified as pathogenic or likely pathogenic will be reported using the following clinical significance category: Other Variants (Likely Constitutional)

- Constitutional CNVs conferring non-cancer recessive disease

- CNVs classified as Tier 4, likely benign or benign that are devoid of relevant gene content or reported as common findings in the general population, are generally not reported - ROH are generally reported when known or suspected to be mosaic and representative of CN-LOH

- Total autosomal homozygosity (only autosomal ROH greater than 5 Mb\_are considered for this estimate) consistent with AOH at a level of greater than 10 percent will generally be reported; AOH less than 10 percent may be reported, dependent upon on the concern for masked CN-LOH and/or a recessive disorder

Limitations

This analysis cannot provide structural (positional) information associated with genomic imbalance. Therefore, additional cytogenetic testing by chromosome analysis or fluorescence in situ hybridization (FISH) may be recommended.

Certain genomic alterations may not or cannot be detected by this technology. These alterations may include, but are not limited to:

CNVs below the limit of resolution of this platform Sequence-level variants (mutations) including point mutations

and indels Low-level mosaicism (generally, less than 30 percent) Balanced chromosomal rearrangements (translocations, inversions and insertions)

Genomic imbalance in repetitive DNA regions (centromeres, telomeres, segmental duplications, and acrocentric chromosome short arms)

This result has been reviewed and approved by

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

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

This test was developed and its performance characteristics 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.

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

ess otherwise indicated testing performed at



EER Cytogenomic MIP Microarray, FFPE

EERUnavailable

Block ID

SP24-1234 1A

VERIFIED/REPORTED DATES						
Procedure	Accession	Collected	Received	Verified/Reported		
Cytogenomic MIP Array, FFPE	24-288-124499	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00		
EER Cytogenomic MIP Microarray, FFPE	24-288-124499	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00		
Block ID	24-288-124499	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00		

## END OF CHART

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: Patient, Example ARUP Accession: 24-288-124499 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 3 of 3 | Printed: 10/18/2024 1:01:46 PM 4848