

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

Physician: Doctor, Example

Patient: Patient, Example

12/31/1752
Unknown
01234567890ABCD, 012345
01234567890ABCD
01/01/2017 12:34

Chromosome Analysis, Constitutional Blood, with Reflex to Genomic Microarray

ARUP test code 2005763

Chromosome Analysis Constitutional Blood	See Note	(Ref Interval: Normal)
	Test Performed: C Specimen Type: Pe Indication for Tes	hromosome Analysis ripheral Blood ting: Prematurity
	Number of cells co Number of cells an Number of cells ka ISCN band level: Banding method: G	alyzed: 9 ryotyped: 9 550
	RESULT Normal Karyotype (Female)
	46,XX	
	This specimen is b	eing reflexed to genomic microarray.
	INTERPRETATION This analysis show	ed a normal result.
	cannot detect subm	enetic methodology used in this analysis may earrangements or low-level mosaicism and icroscopic deletions or duplications that are mic microarray analysis.
		ers with questions may contact an ARUP genetic 242-2787 ext. 2141.
	This result has be	en reviewed and approved by
	INTERPRETIVE INFOR	MATION: Chromosome Analysis
	determined by ARUP	Constitutional Blood loped and its performance characteristics Laboratories. It has not been cleared or Food and Drug Administration. This test was A certified laboratory and is intended for
		ormed consent are recommended for genetic orms are available online.
EER Chrom Analysis PB w/Rflx to Array	EERUnavailable	

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: 25-154-129125 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 1 of 4 | Printed: 6/3/2025 5:15:36 PM



Cytogenomic SNP Microarray

ARUP test code 2003414

Cytogenomic SNP Microarray	Specimen Type: I	(Ref Interval: Normal) Cytogenomic SNP Microarray (CMA SNP) Peripheral blood esting: Prematurity
	RESULT SUMMARY Normal Microarra	y Result (Female)
	RESULT DESCRIPTION No clinically sign homozygosity were	gnificant copy number changes or regions of
	INTERPRETATION This analysis sho	owed a normal result.
	Health care prov counselor at (800	iders with questions may contact an ARUP genetic)) 242-2787 ext. 2141.
	Cytogenomic Nomen arr(X,1-22)x2	nclature (ISCN):
	<pre>(Thermo Fisher So within the Genom - This assay is o number state (ga alterations (reg absence- or loss - AOH may be pres or uniparental d - LOH may be pres chromosome) - The detection s genomic region ma (markers), probe determination - The CytoScan HI genome with avera SNP probes and 1 - In general, the kb for copy numbe reporting criter - The limit of d size and type of due to mosaicism or chimerism (ce detected when pra- Genomic coordin</pre>	performed using the CytoScan(TM) HD Suite cientific) according to validated protocols ic Microarray Laboratory at ARUP Laboratories designed to detect alterations to DNA copy ins and losses) as well as copy-neutral ions of homozygosity; ROH) that indicate an -of-heterozygosity (AOH or LOH) sent due to parental relatedness (consanguinity) isomy (UPD) sent due to acquired UPD (segmental or whole sensitivity (resolution) for any particular ay vary dependent upon the number of probes spacing, and thresholds for copy number and ROH D array contains 2.67 million markers across the age probe spacing of 1.15 kb, including 750,000 .9 million non-polymorphic probes e genome-wide resolution is approximately 25-50 er changes and approximately 3 Mb for ROH (See
	- Copy number va with recommendat and Genomics (AC terminology: pat significance (VU - CNVs classified of uncertain sig information avai	cation and Reporting Criteria riant (CNV) analysis is performed in accordance ions by the American College of Medical Genetics MG), using standard 5-tier CNV classification nogenic, likely pathogenic, variant of uncertain S), likely benign, and benign d as pathogenic, likely pathogenic, or variant nificance are generally reported, based on lable at the time of review ted pathogenic CNVs affecting genes with known

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clinical significance but which are unrelated to the indication for testing will generally be reported -_Variants that do not fall within the standard 5-tier CNV classification categories may be reported with descriptive language specific to that variant - In general, recessive disease risk and recurrent CNVs with established reduced penetrance will be reported - For a list of databases used in CNV classification, please refer to ARUP Constitutional CNV Assertion Criteria, which can be found on ARUP's Genetics website at www.aruplab.com/genetics - CNVs classified as likely benign or benign that are devoid of relevant gene content or reported as common findings in the general population, are generally not reported - CNV reporting (size) criteria: losses greater than 50 kb and gains greater than 400 kb are generally reported, dependent on genomic content ROH are generally reported when a single terminal ROH is greater than 3 Mb and a single interstitial ROH is greater than 10-15 Mb (dependent upon chromosomal location and likelihood of imprinting disorder) or when total autosomal homozygosity is greater than 3 percent (only autosomal ROH greater than 3 Mb are considered for this estimate) 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 20-30 percent) - Balanced chromosomal rearrangements (translocations, inversions and insertions) - Genomic imbalance in repetitive DNA regions (centromeres, telomeres, segmental duplications, and acrocentric chromosome short arms) Data Sharing In cooperation with the National Institutes of Health's effort to improve understanding of specific genetic variants, ARUP submits HIPAA-compliant, de-identified (cannot be traced back to the patient) genetic test results and health information to public databases. The confidentiality of each sample is maintained. If you prefer that your test result not be shared, call ARUP Laboratories at (800) 242-2787 ext. 3301. Your de-identified information will not be disclosed to public databases after your request is received, but a separate request is required for each genetic test. Additionally, patients have the opportunity to participate in patient registries and research. To learn more, visit ARUP's Genetics website at www.aruplab.com/genetics. This result has been reviewed and approved by INTERPRETIVE INFORMATION: CYTOGENOMIC SNP MICROARRAY

> 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.

Counseling and informed consent are recommended for genetic

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testing. Consent forms are available online.

VERIFIED/REPORTED DATES						
Procedure	Accession	Collected	Received	Verified/Reported		
Chromosome Analysis Constitutional Blood	25-154-129125	6/3/2025 5:06:00 PM	6/3/2025 5:06:59 PM	6/3/2025 5:12:00 PM		
Cytogenomic SNP Microarray	25-154-129125	6/3/2025 5:06:00 PM	6/3/2025 5:06:00 PM	6/3/2025 5:15:00 PM		
EER Chrom Analysis PB w/Rflx to Array	25-154-129125	6/3/2025 5:06:00 PM	6/3/2025 5:06:59 PM	6/3/2025 5:12:00 PM		

END OF CHART

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