

HIP HIP ARRAY



Raise your productivity to a whole new level Exciting advancements are coming for cytogenetics research

The Applied Biosystems™ CytoScan™ Cytogenetics Suite is about to become what may be one of the most powerful sample-to-insight chromosomal microarray (CMA) research solutions available, with new content, accelerated speed, automated interpretation and reporting capabilities. The all-new Applied Biosystems™ CytoScan™ Automated Interpretation and Reporting (AIR) solution and Applied Biosystems™ CytoScan™ HD Accel™ Array combine fast assays with automated, AI-driven data interpretation and reporting, enabling you to raise the productivity of your laboratory. Help maximize efficiency with new performance and ease-of-use enhancements to the consistently reproducible, reliable, robust, and enduring Applied Biosystems™ Chromosome Analysis Suite (ChAS) software and Applied Biosystems™ GeneChip™ Scanner. Own your data and own your budget. The CytoScan Cytogenetics Suite is designed for simplicity so you can analyze your own data without the need for costly third-party expertise.

Available now

- CytoScan Automated Interpretation and Reporting (AIR) solution

Coming soon

- CytoScan HD Accel Array*

* The content provided herein may relate to products that have not been officially released and is subject to change without notice.

CytoScan HD Accel Array can raise your efficiency to a whole new level

Two-day workflow using CytoScan HD Accel Array

Day 1							Overnight	Day 2		
Digestion	Ligation	PCR amplification	Purification	Fragmentation	Labeling	Start hybridization	Hybridization	Washing/staining	Scanning	
0.5 hr	0.5 hr	1.5 hr 25 cycles	1 hr	1 hr	1 hr	0.5 hr	16 – 18 hr	2.5 hr	0.5 hr *	
~2.5 hr			~3.5 – 4 hr							

* Dependent on number of cartridges

Increase your laboratory productivity by as much as 200% with the soon-to-be-released* CytoScan HD Accel Array

With two-day assay turnaround time, the CytoScan HD Accel Array is expected to be among the fastest commercially available CMA in the industry. Increase your confidence in your CMA results with robust and reliable assays, analyzed by you according to your interests using the intuitive ChAS software.

Highlights of capabilities:

- Accelerate your testing with **two-day turnaround time** from DNA digestion through CMA scanning
- Gain helpful insights from **broad coverage of critical regions** as categorized by professional databases such as ClinGen and DECIPHER
- Expand your investigations with **wide-ranging coverage**
- Help maximize efficiency with up to **50% less sample** required compared to many other commercially available CMAs

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CytoScan AIR enables even more streamlined data interpretation and reporting

Increase your discovery yield and simplify variant interpretation with consistent and accurate CMA results delivered in seconds. The CytoScan AIR solution is a new approach to CMA investigation. CytoScan AIR unites ChAS software with the Franklin by Genoox™ open genomics connectivity hub. Artificial intelligence (AI) technology automatically identifies, classifies, and prioritizes variants based on real-world, evidence-based, genomic and clinical data, enabling you to link evidence with observation from your internal database development and curation.

Enhanced capabilities:

- Focus on discovery with **AI-driven data interpretation and reporting**
- Get **strong evidence support** with classifications based on the current American College of Medical Genetics (ACMG) guidelines, phenotype matching, literature searches, and historic data
- Report data your way with **customized reporting** with an intuitive interface for customization, reporting, evaluation, and sign-off
- Link evidence to observation using access to the Franklin knowledge base with more than **350,000 shared classifications of variants** to help manage and expand your database