

CytoScan™ 750K Array

Catalog Number 901858

Doc. Part No. 703075 Pub. No. MAN0017716 Rev. A.0

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product use

The Applied Biosystems™ CytoScan™ 750K Array enables the detection of high-resolution copy number across the genome and providing allelic imbalance information from single-nucleotide polymorphisms (SNPs). This high-density array contains greater than 750,000 markers for copy number and approximately 200,000 genotype-able SNPs, which provide high-resolution copy number, accurate breakpoint estimation, and loss of heterozygosity (LOH) detection.

The SNPs on this array are from the public SNP database (dbSNP). They were selected to maximize genomic coverage, genotyping accuracy, and optimized to enable detection of homozygosity. The 550,000 unique nonpolymorphic probes were selected based on empirical selection for performance that is combined with enriched coverage for known constitutional and cancer genes.

Instrumentation and software required

- GeneChip™ Scanner 3000 7G
- GeneChip™ Fluidics Station 450
- GeneChip™ Hybridization Oven 645
- GeneChip™ Command Console™ (GCC) software
- Chromosome Analysis Suite (ChAS) software, version 3.3 or later

Instructions for use

See the *CytoScan™ Assay User Guide* (Pub. No. 703038) for procedures on DNA target preparation, target hybridization, fluidics setup, array scanning, and data analysis instructions.

Fluidics scripts

The fluidics script used depends on the array type, labeling protocol, and reagents used for cartridge processing. Refer to the GeneChip Fluidics Station Scripts support page to determine which fluidics script is appropriate for your application. The fluidics scripts can be downloaded from our website.

Library files

Library files contain information about the probe array design characteristics, probe use and content, and scanning and analysis parameters. These files are unique for each probe array. Additional information can be located under the specific array product on our website.

Critical specifications

Item	Specification
Array format	64
Feature size	5 μm
Hybridization volume	200 μL
Fluidics protocol	CytoScan750K_Array_450
Library files	CytoScan750K_Array

Ordering information

Product Name	Description	Source
CytoScan™ 750K Array Kit	6 arrays	901858
Supporting products		
CytoScan™ Reagent Kit	24-reaction reagents	901808
CytoScan™ 750K Array Kit and Reagent Kit Bundle	24-reaction reagents/arrays	901835
CytoScan™ 750K Training Kit	24-reaction reagents/arrays and training materials	901860

Storage, handling, and stability

This cartridge array consists of a square glass substrate mounted in a plastic cartridge. The glass contains an array of oligonucleotides that, when mounted, is on the inner glass surface. A chamber in the plastic housing directly under the glass acts as a reservoir where hybridization and washing occur.

Although the inner glass surface of the probe array is protected, any contamination or scratches on the outer surface of the glass can compromise the accuracy of the scan. Avoid touching the surface of the glass with your fingers. Skin oils and other substances, such as lotions or ink, can fluoresce. If the surface of the glass is noticeably dirty, it can be carefully cleaned with a nonabrasive laboratory tissue.

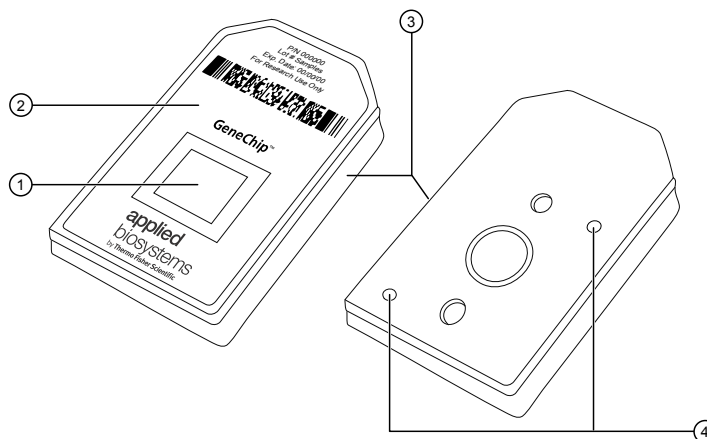









Fig. 1 Cartridge array.

- ① Probes on a glass substrate
- ② Plastic cartridge
- ③ Notch
- ④ Septa

The cartridge array should be stored at 2–8°C. Refer to the expiration date on the package label. Do not use arrays or reagents after the expiration date.

Symbol table

The following table shows a legend of the graphic symbols that are used for product label, product information sheets, and user guides.

Symbol/Letters	Statement
	CATALOG NUMBER
	BATCH CODE
	USE BY YYYY-MM-DD
	TEMPERATURE LIMIT
	CONTAINS SUFFICIENT FOR <n> TESTS
	CONSULT INSTRUCTIONS FOR USE
	MANUFACTURER

Customer and technical support

Visit thermofisher.com/support for the latest service and support information.

- Worldwide contact telephone numbers
- Product support information
 - Product FAQs
 - Software, patches, and updates
 - Training for many applications and instruments
- Order and web support
- Product documentation
 - User guides, manuals, and protocols
 - Certificates of Analysis
 - Safety Data Sheets (SDSs; also known as MSDSs)

Note: For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



Manufacturer: Affymetrix Pte Ltd | 7 Gul Circle #2M-01 | Keppel Logistics Building | Singapore 629563

The information in this guide is subject to change without notice.

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Revision history: Pub. No. MAN0017716

Revision	Date	Description
A.0	22 August 2018	Initial release in Thermo Fisher Scientific document control system. Supersedes legacy Affymetrix publication number 703075. Updated to the current document template, with associated updates to trademarks, logos, licensing, and warranty.

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