



Cytogenetics Array

Intended Use

The Cytogenetics Array enables determination of loss of heterozygosity (LOH) using approximately 400,000 single nucleotide polymorphisms (SNPs). This array also provides the ability to assay approximately 2,370,000 unique non-polymorphic probes for detection of copy number variation (CNV).

The SNPs on this array are from the public SNP database (dbSNP). They were chosen to maximize genomic coverage and optimized to enable detection of homozygosity.

The 2,370,000 unique non-polymorphic probes were chosen based on an empirical titration for performance combined with coverage consideration to RefSeq genes, common CNVs, and cytogenetic hotspots.

This product is for research purposes only and is not intended for use in the diagnosis of disease.

Instrumentation and Software Required

- Affymetrix GeneChip® Scanner 3000
- Affymetrix GeneChip® Command Console™ (AGCC)
- Affymetrix GeneChip® Fluidics Station 450
- Affymetrix Hybridization Oven 640 or 645

Instructions for Use

Refer to the *Affymetrix® Cytogenetics Assay User Manual* (P/N 702761) and the set of Quick Reference Cards (P/N 702762) for procedures on sample preparation, hybridization, fluidics setup, and array scanning.

Accessory Files

Fluidics Script

The fluidics script can be downloaded from:
www.affymetrix.com/support/technical/fluidics_scripts.affx.

Library Files

Library files contain information about the array design layout and other characteristics, probe use and content, and scanning and analysis parameters. These files are unique for each probe array type. The library files may be downloaded from: www.affymetrix.com/support/technical/libraryfilesmain.affx.

Critical Specifications

Critical Specifications	
Array Format	100
Feature Size	4 µm
Hybridization Volume	130 µL
Fluidics Station Protocol	Cytogenetics_Array_450
Library Files	Cytogenetics_Array

Ordering Information

Product Name	Description	P/N
Arrays		
Cytogenetics Array	6 Arrays	901387
Cytogenetics Array	24 Arrays	901388
Cytogenetics Array	96 Arrays	901389
Supporting Products		
Cytogenetics Reagent Kit	Sufficient for 24 Reactions	901378
Cytogenetics Reagent Kit	Sufficient for 96 Reactions	901382

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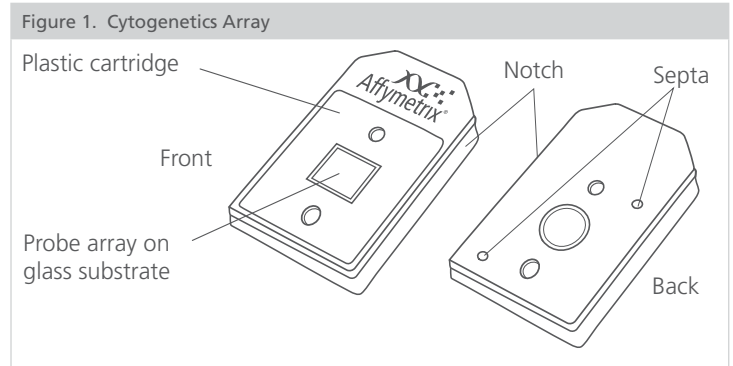
Precautions

1. CYTOGENETICS ARRAYS ARE FOR RESEARCH USE ONLY; NOT FOR DIAGNOSTIC PROCEDURES.
 - a. Avoid microbial contamination, which may cause erroneous results.
2. **WARNING: All biological specimens and materials with which they come into contact should be handled as if capable of transmitting infection and disposed of with proper precautions in accordance with federal, state, and local regulations. This includes adherence to the OSHA Bloodborne Pathogens Standard (29 CFR 1910.1030) for blood-derived and other samples governed by this act. Never pipet by mouth. Avoid specimen contact with skin and mucous membranes.**
3. **CAUTION:** Exercise standard precautions when obtaining, handling, and disposing of potentially carcinogenic reagents.
4. Exercise care to avoid cross-contamination of samples during all steps of this procedure, as this may lead to erroneous results.
5. Use powder-free gloves whenever possible to minimize introduction of powder particles into sample or probe array cartridges.

Storage, Handling and Stability

The Cytogenetics Array consists of a square glass substrate mounted in a plastic cartridge (Figure 1). 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 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 non-abrasive laboratory tissue.



Store these arrays at 2° to 8°C. Refer to the expiration date on the package label. Do not use arrays or reagents after the expiration date.

Warranty Information

The Cytogenetics Array is covered by Affymetrix' limited warranty as set forth under the "Limited Warranty" section below. Affymetrix will provide no support for the array. Affymetrix will not support any assay protocol used by the customer with the array. The array is not functionally tested by Affymetrix, and Affymetrix provides no warranty regarding the functional performance of the array in any specific customer application.

Limited Warranty

Affymetrix warrants to you (but not to any third party) that Affymetrix Cytogenetics Arrays shall be free from physical defects. Affymetrix' sole and exclusive liability and your sole and exclusive remedy under the foregoing warranty, is to provide you with a replacement array provided if the following conditions are met: (i) you used the affected array prior to its expiration date and notify Affymetrix promptly after you become aware of the defect; (ii) you cooperate with Affymetrix in Affymetrix' investigation as to the cause of the alleged physical defect and provide any information required by Affymetrix; and (iii) Affymetrix shall make the final determination in good faith, as to whether: (a) any physical defect in fact exists; and (b) if so, whether such physical defect was caused by Affymetrix' manufacturing process, and not user error, improper storage or handling, or any other cause for which Affymetrix is not responsible.

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Patents

Products may be covered by one or more of the following patents: U.S. Patent Nos. 5,445,934; 5,744,305; 5,945,334; 6,140,044; 6,261,776; 6,291,183; 6,346,413; 6,399,365; 6,420,169; 6,551,817; 6,610,482; 6,733,977; 6,955,915 and D430,024 and other U.S. or foreign patents. Products are manufactured and sold under license from OGT under 5,700,637 and 6,054,270.

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