Affymetrix® Package Insert

GeneChip® *Xenopus laevis* Genome 2.0 Array

Critical Specifications	
Feature Size	11 µm
Probe Pairs/Sequence	14
Array Format	64
Hybridization Controls	*bioB, bioC, bioD,* and *cre*
Poly-A Controls	*dap, lys, phe, thr,* and *trp*
Housekeeping/Control Genes	actin, ef1a, and gapdh
Hybridization Volume	200 µL. The total fill volume of the cartridge is 250 µL.
Library Files	Xenopus laevis 2.0

Ordering Information

P/N	Product Name	Description
Arrays		
901214	GeneChip® *Xenopus laevis* Genome 2.0 Array	2 Arrays
901215	GeneChip® *Xenopus laevis* Genome 2.0 Array	6 Arrays
901216	GeneChip® *Xenopus laevis* Genome 2.0 Array	30 Arrays
Supporting Products		
901228 901229	GeneChip® 3' IVT Express Kit	Sufficient for 10 Reactions Sufficient for 30 Reactions
900454 900457	GeneChip® Eukaryotic Hybridizaion Control Kit	Sufficient for 30 Reactions Sufficient for 150 Reactions
900301	Control Oligo B2 (included in Hybridization Control Kit)	Sufficient for 30 Reactions
900720	GeneChip® Hybridization, Wash, and Stain Kit[1]	Sufficient for 30 Reactions

1. *Each kit contains one (1) Hybridization Module, one (1) Stain Module, three (3) bottles of Wash Buffer A and one (1) bottle of Wash Buffer B, sufficient for 30 reactions. Individual kit components may be ordered separately.*

Intended Use

The GeneChip® *Xenopus laevis* Genome 2.0 Array is a single GeneChip brand array comprised of over 32,400 probe sets representing over 29,900 *Xenopus laevis* transcripts. Sequences used in the design of the array were selected from the *Xenopus laevis* UniGene build 69 (July 12, 2006) and GenBank® mRNAs (through September 12, 2006). The GeneChip *Xenopus laevis* Genome 2.0 Array was designed in close collaboration with the Xenopus research community as part of the Affymetrix® GeneChip® Consortia Program.

GeneChip probe arrays are for research use only and not intended for use in diagnosis of disease. Please visit www.affymetrix.com for a complete list of supporting documentation including procedures regarding target preparation, target hybridization, fluidics station setup, probe array scan, and data analysis.

Instrumentation and Software Required

1. GeneChip® Scanner 3000 enabled for High-Resolution Scanning*
2. Affymetrix® GeneChip® Command Console® Software (AGCC)
3. GeneChip® Fluidics Station 400 or higher

**GeneChip Scanner 3000 High-Resolution Update is standard on all instruments shipped starting in September 2003 with serial number series 502. Previous versions, serial number series 501, will require the 00-0110 GeneChip Scanner 3000 High-Resolution Update to be installed.*

Accessory Files

Fluidics

The Fluidics Script used depends on the labeling protocol, hybridization and stain reagents used. Refer to the Fluidics Script Support page to determine the appropriate fluidics protocol for this array, GeneChip® instrument system, and reagents used. The Fluidics Scripts can be downloaded from the following URL: www.affymetrix.com/support/technical/fluidics_scripts.affx

Library Files

Library files contain information about the probe 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 the following URL: www.affymetrix.com/support/technical/libraryfilesmain.affx

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Precautions

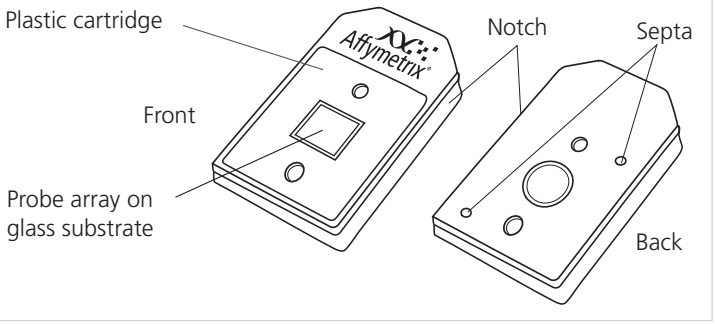
1. GENECHIP PROBE ARRAYS ARE FOR RESEARCH USE ONLY; NOT FOR DIAGNOSTIC PROCEDURES.
2. Avoid microbial contamination, which may cause erroneous results.
3. **WARNING: All biological specimens and materials with which they come into contact should be handled as if capable of transmitting infection and 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.**
4. **CAUTION:** Exercise standard precautions when obtaining, handling, and disposing of potentially carcinogenic reagents.
5. Exercise care to avoid cross-contamination of samples during all steps of this procedure, as this may lead to erroneous results.
6. Use powder-free gloves whenever possible to minimize introduction of powder particles into sample or probe array cartridges.

Storage, Handling and Stability

The GeneChip probe 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 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 non-abrasive laboratory tissue.

Figure 1. GeneChip® Probe Array



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

Contact Information

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