Package Insert

Whole Transcript 100-Format Array

For Research Use Only
Not for use in diagnostic procedures.

Product Description
The whole transcript array offers the most advanced and cost-effective gene expression profiling option for whole-transcript coverage. Probes are distributed across the full length of the gene, providing a more complete and accurate picture of overall gene expression.

Discovery content, such as transcript regions supported by more speculative sources including Expressed Sequence Tags (ESTs) and gene predictions, are not interrogated by the whole transcript arrays.

Oligonucleotide probes are synthesized in situ complementary to each corresponding sequence. For expression analysis, the samples need to be amplified, and the targets labeled in the sense orientation for hybridization to the arrays.

Whole transcript arrays are for research use only and not intended for use in diagnosis of disease.

Please refer to www.affymetrix.com for a complete list of available whole transcript arrays, supporting documentation, available reagent kits, and procedures regarding target preparation, target hybridization, washing, staining, and scanning.

Accessory Files

Fluidics
The fluidics scripts can be downloaded from the Affymetrix web site. Additional information, including lists of steps in the fluidics protocol, can be found in the GeneChip® Expression Wash, Stain and Scan User Guide for Cartridge Arrays (PN 702731).

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 array type. The library files may be downloaded from the following URL: www.affymetrix.com/support/technical/libraryfilesmain.affx

Instrumentation and Software Required
1. GeneChip® Scanner 3000 7G
2. GeneChip® Fluidics Station 450
3. GeneChip® Hybridization Oven 645
4. Affymetrix GeneChip® Command Console® Software (AGCC)
5. Expression Console
6. Transcriptome Analysis Console (TAC)

Reagents Required
The following table lists some of the kits required to process whole transcript arrays. Please refer to www.affymetrix.com for a complete list of available reagent kits.

<table>
<thead>
<tr>
<th>P/N</th>
<th>Product Name</th>
<th>Description</th>
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<tr>
<td>900720</td>
<td>GeneChip® Hybridization, Wash, and Stain Kit</td>
<td>Sufficient for 30 reactions</td>
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Precautions
1. WHOLE TRANSCRIPT 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 array cartridges.

Storage, Handling and Stability
This cartridge 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.

Figure 1. Cartridge Array from Affymetrix®

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

Products may be covered by one or more of the following patents: U.S. Patent Nos. 6,307,042; 6,706,875; 7,332,273; 7,629,164; 7,790,389; 8,114,584; 8,309,496 and other U.S. and foreign patents.

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