

PackageInsert

Whole Transcript Array Plate

For Research Use Only
Not for use in diagnostic procedures.

Product Description

The whole transcript array plates offer 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 array plates.

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 array plates are: For research use only. Not intended for use in diagnostic procedures.

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

Accessory Files

Assay Manual

The following documentation is required for using the GeneChip® WT PLUS Reagent Kit with whole transcript array plates:

- *GeneChip® WT PLUS Reagent Kit Manual, Target Preparation for GeneChip® Whole Transcript (WT)* (P/N 703174)
- *GeneChip® WT Pico Reagent Kit User Guide* (P/N 703262)
- *GeneTitan® Instrument User Guide for Expression Array Plates* (P/N 702933)

User guides are available at www.affymetrix.com.

Library Files

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

Instrumentation and Software Required

1. GeneTitan® Instrument
2. Affymetrix GeneChip® Command Console® Software (AGCC)
3. Expression Console™
4. Transcriptome Analysis Console (TAC)

For a complete list of reagents and consumables required, as well as a list of supporting manuals for array plates, please refer to www.affymetrix.com.

Reagents Required

The following table lists the kits required to process whole transcript array plates.

P/N	Product Name	Description
902280	GeneChip® WT PLUS Reagent Kit	Sufficient for 10 reactions
902281	GeneChip® WT PLUS Reagent Kit	Sufficient for 30 reactions
901622	GeneTitan® Hybridization, Wash and Stain Kit for WT Array Plates	96 reactions
902622	GeneChip® WT Pico Reagent Kit	Sufficient for 12 reactions
902623	GeneChip® WT Pico Reagent Kit	Sufficient for 30 reactions

Hybridization Cocktail for Single Array

Component	Amount	Final Concentration
Fragmented and Labeled DNA	32.8 µL	23 ng/µL
5X WT Hyb Add 1	24 µL	1X
Control Oligonucleotide B2 (3mM)	1.2 µL	50 mM
20X Eukaryotic Hybridization Controls (<i>bioB</i> , <i>bioC</i> , <i>bioD</i> , <i>cre</i>)	6 µL	1.5, 5, 25 and 100 pM, respectively
15X WT Add 4	8 µL	1X
2.5X WT Hyb Add 6	48 µL	1X
Total Volume	120 µL	
Hybridization Volume	90 µL	

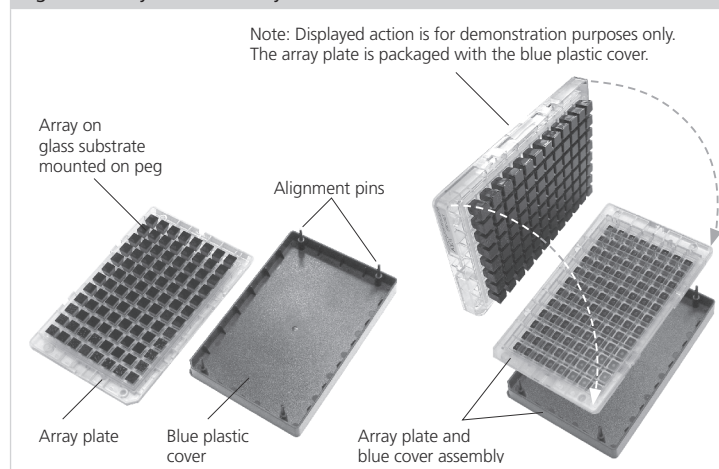
Storage, Handling and Stability

The whole transcript array plates should be stored at 2° to 8°C and must not be frozen. Refer to the expiration date on the package label. Do not use array plates or reagents after the expiration date.

When Handling the Array Plate

Remove the array plate from the pouch with gloved hands. The array plate is packaged with a blue plastic cover (Figure 1). Do not remove the protective blue plastic cover from the array plate or touch the array plate directly. This protective cover should stay with the array plate at all times prior to being handled by the GeneTitan System.

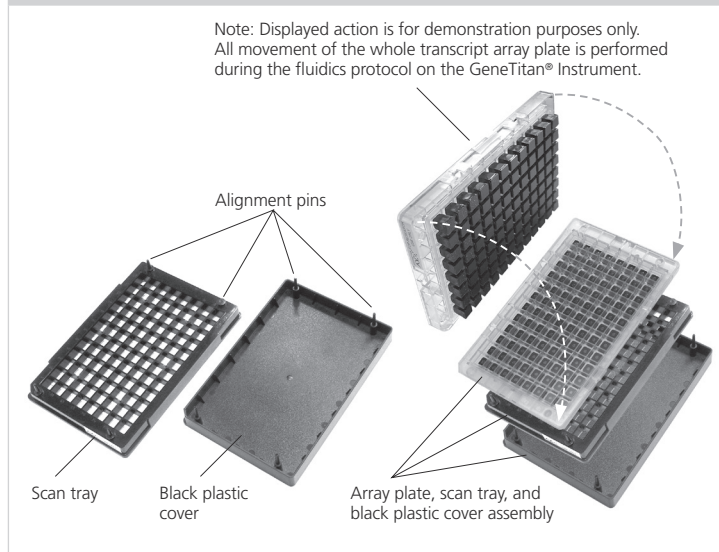
Figure 1. Array Plate Assembly



When Handling the Scan Tray

Remove the scan tray from the pouch with gloved hands. The scan tray is packaged with a black plastic cover (Figure 2). Do not remove the protective black plastic cover from the scan tray or touch the scan tray directly. This protective cover should stay with the scan tray at all times prior to loading into the GeneTitan Instrument. In addition, the scan tray has protruding guiding posts that may be sharp and can stick out of the pouch if not handled carefully; therefore, take precaution to prevent unnecessary injury.

Figure 2. Scan Tray Assembly



Precautions

1. WHOLE TRANSCRIPT ARRAY PLATES ARE FOR RESEARCH USE ONLY. NOT FOR USE IN 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 plates.
7. CAUTION: Use care when handling the scan tray as it has protruding guiding posts that may be sharp and can stick out of the pouch if not handled carefully.

Patents

Products may be covered by one or more of the following patents: U.S. Patent Nos. 7,332,273; 7,790,389; 8,114,584; 8,273,304; 8,501,122 and other U.S. or foreign patents.

Trademarks

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