Whole Transcript Array Plates

Pub. No. 703078 **Rev.** 7

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 description

The Applied Biosystems™ 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 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.

Visit our website 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.

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 User Guide* (Pub. No. 703147)
- *GeneChip™ WT Pico Kit User Guide* (Pub. No. 703262)
- *GeneTitan™ Instrument User Guide for Expression Array Plates* (Pub. No. 702933)

Instrumentation and software required

1. GeneTitan™ Instrument
2. GeneChip™ Command Console™ (GCC) software
3. Expression Console™
4. *Transcriptome Analysis Console User Guide* (TAC)

For a complete list of reagents and consumables required, as well as a list of supporting documentation for array plates, refer to our website.

Reagents required

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

Unless otherwise indicated, all materials are available through **thermofisher.com**.

MLS: Fisher Scientific (**fisherscientific.com**) or other major laboratory supplier.

Product name	Description	Cat. No.
GeneTitan™ Hybridization, Wash, and Stain Kit for WT Array Plates	96 reactions	901622

Accessory files

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.

Storage, handling, and stability

The array plates should be stored at 2–8°C and must not be frozen. The array plates must be protected at all times from damage or exposure to dust. Refer to the expiration date on the package label. Do not use array plates or reagents after the expiration date.

When handling the 96-array plate

Remove the array plate from the pouch with gloved hands. The array plate is packaged with a blue plastic base. Do not remove the protective blue plastic base from the array plate or touch the array plate directly. Keep the array plate in the protective base all times, including when placed on the GeneTitan™ MC Instrument.

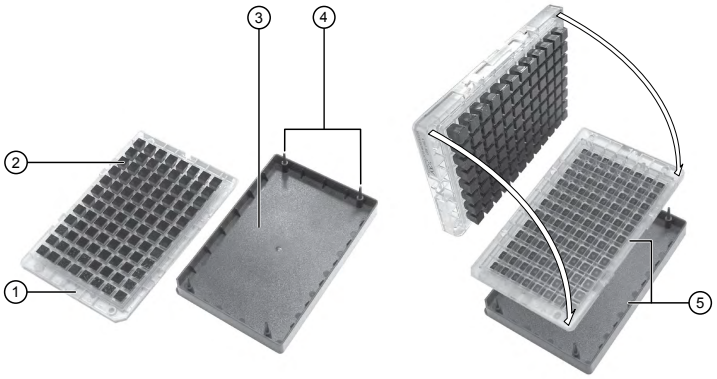

Fig. 1 Array plate assembly.

① Array plate
② Probe array on glass substrate mounted on peg
③ Blue plastic base
④ Alignment pins
⑤ Array plate and blue base assembly

Note: Displayed action is for demonstration purposes only.

When handling the 96-plate scan tray

Remove the scan tray from the pouch with gloved hands. The scan tray is packaged with a black plastic base. Do not remove the protective black plastic base from the scan tray or touch the scan tray directly. This protective base should stay with the scan tray at all times prior to loading into the GeneTitan™ MC Instrument.

CAUTION! 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.

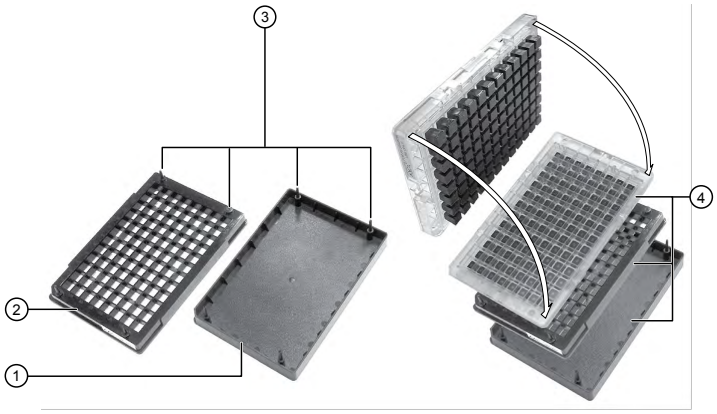

Fig. 2 Scan tray assembly.

① Black plastic base
② Scan tray
③ Alignment pins
④ Array plate, scan tray, and black plastic base assembly

Note: Displayed action is for demonstration purposes only. All movement of the array plate is performed during the fluidics protocol on the GeneTitan™ Instrument.

Customer and technical support

Visit **thermofisher.com/support** for the latest in services and support, including:

- Worldwide contact telephone numbers
- Product support, including:
  - Product FAQs
  - Software, patches, and updates
  - Training for many applications and instruments
- Order and web support
- Product documentation, including:
  - 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**.

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

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Revision	Date	Description
7	10 November 2017	Update document to current template.
6	04 May 2016	Baseline for revision history.

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