


# PharmacoScan™ Array Plate

Catalog Number 902994 and 903160

Pub. No. 703433 Rev. 3

 **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](http://thermofisher.com/support).

## Product description

PharmacoScan™ array plates are designed for genotyping single nucleotide polymorphisms (SNPs), insertion/deletions (indels) and copy number variations (CNV) that are important in the field of pharmacogenomics. The array plate is available in 24- and 96-array format, and when used with a PharmacoScan™ reagent kit, enables researchers to perform small- to large-scale genotyping studies with minimal hands-on processing per plate.

Each 24-format plate consists of 22 microarrays for samples and 2 controls, and the 96-format plate consists of 94 microarrays for samples and 2 controls. Each array format runs on the GeneTitan™ Multi-Channel (MC) Instrument for array washing, staining and scanning. After the mPCR step, samples are prepared for hybridization to the arrays using the PharmacoScan reagent kit. The reagents for processing PharmacoScan array plates on the GeneTitan MC Instrument are also included in the reagent kit.

The oligonucleotide probes on PharmacoScan array plates are synthesized *in situ* using Applied Biosystems' photolithographic process, which is an identical process to the one used for the Axiom™ array plates.

Please refer to [www.thermofisher.com](http://www.thermofisher.com) for a complete list of available PharmacoScan array plates, supporting documentation, and procedures regarding target preparation, target hybridization, washing, staining, and scanning.

## Instructions for use

Refer to the following documents for instructions on processing samples, instruments and software required for the PharmacoScan™ Assay.

- *PharmacoScan™ Assay 24-Array Format Manual Protocol: User Guide*, Pub. No. 703286; *Site Preparation Guide*, Pub. No. 703287; *Quick Reference*, Pub. No. 703288
- *PharmacoScan™ Assay 96-Array Format Manual Protocol: User Guide*, Pub. No. 703459; *Site Preparation Guide*, Pub. No. 703460; *Quick Reference*, Pub. No. 703461
- *Axiom™ gDNA Sample Prep QR*, Pub. No. 702987
- *GeneTitan™ MC Protocol for Axiom™ 2.0 Array Plate Processing QR*, Pub. No. 702988
- *GeneTitan™ Multi-Channel Instrument: User Guide*, Pub. No. 08-0308; *Site Preparation Guide*, Pub. No. 08-0305
- *Applied Biosystems™ GeneChip™ Command Console™ Software User Guide*, Pub. No. 702569
- *Applied Biosystems™ Axiom™ Genotyping Console™ User Guide*, Pub. No. 702982
- *Axiom™ Genotyping Solution Data Analysis Guide*, Pub. No. 702961

## Reagents, instrumentation, and software required

1. PharmacoScan reagent kit
2. PharmacoScan array plate
3. GeneTitan Multi-Channel Instrument
4. GeneChip Command Console Software
5. Axiom Analysis Suite Software

For a complete list of reagents and consumables required, please refer to the appropriate PharmacoScan assay manual protocol site preparation guide.

## Ordering information

Cat. No.	Product name	Description
902994	PharmacoScan™ 24F Array Plate	One 24-format plate
903160	PharmacoScan™ 96F Array Plate	One 96-format plate
Supporting products		
902908TS	PharmacoScan™ Reagent Kit 4x24 Reactions	Sufficient for 96 reactions (4x24) <sup>[1]</sup>
913025	PharmacoScan™ Reagent Kit 96 Reactions	Sufficient for 96 reactions (1x96)
902993	PharmacoScan™ DNA Training Plate 24F	Part of Training Kit which includes: array plates, training plates, PharmacoScan reagents, controls and GeneTitan™ MC consumables sufficient for running 4x24F or 2x96F array plates, respectively.
913024	PharmacoScan™ DNA Training Plate 96F	

<sup>[1]</sup> The PharmacoScan™ Reagent Kit 4x24 Reactions contains extra ligase and hold buffer. These extra buffers are not required when running a single 96F array plate.

## 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. GeneTitan MC library files provide instructions for the fluidics and scanning activities on the GeneTitan MC Instrument. Analysis library

files and annotation files are required for genotyping in Axiom Analysis Suite software. Please contact your Field Application Scientist to get the appropriate library files for your array. For predesigned arrays, the library files can be located under the specific array product on the Thermo Fisher Scientific website.

## Storage, handling, and stability

PharmacoScan 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 probe arrays 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.

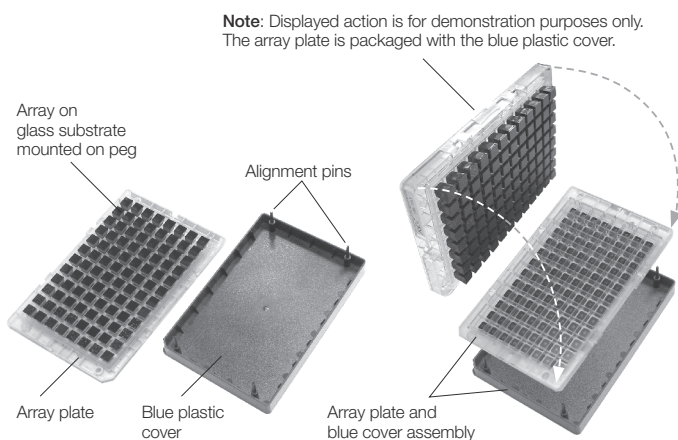


Figure 1 Array plate assembly

### 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.

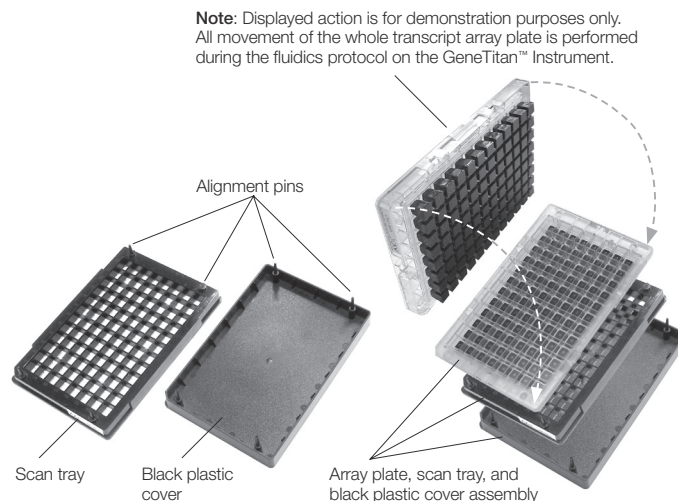


Figure 2 Scan tray assembly

## Precautions

1. PHARMACOSCAN 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.

The information in this guide is subject to change without notice.

#### DISCLAIMER

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