


GeneChip™ miRNA 2.0 Array

Catalog Numbers 901753TS, 901754, and 901755

Doc. Part No. 702985 Pub. No. MAN0017697 Rev. A.0

 **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 use

The Applied Biosystems™ GeneChip™ miRNA 2.0 Array is a single GeneChip™-brand array that is comprised of 15,632 mature microRNA sequences from the miRBASE (v.15). The GeneChip™ miRNA 2.0 Array also contains an extra 1,534 sequences of Human snoRNA and scaRNA from the Ensembl database and snoRNABase.

The oligonucleotide probes on GeneChip™ miRNA 2.0 Array are synthesized *in situ* using our patented photolithographic process.

Accessory files

Fluidics scripts

The fluidics script used depends on the array type, labeling protocol, and reagents used for cartridge processing. Refer to the GeneChip Fluidics Station Scripts support page to determine which fluidics script is appropriate for your application. The fluidics scripts can be downloaded from our website.

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.

Instrumentation and software required

- GeneChip™ Scanner 3000 7G
- GeneChip™ Fluidics Station 450
- GeneChip™ Hybridization Oven 645
- GeneChip™ Command Console™ (GCC) software
- Expression Console™ software (EC)

Critical specifications

Item	Specification
Array format	169 arrays per wafer
Feature size	11 μm
Probe pairs/sequence for miRNA in miRBase v.15	9 identical probes
Probe pairs/sequence for miRNA in miRBase v.11	4 identical probes
Probe pairs/sequence for sno/scaRNA	11 probes
Oligonucleotide probe length	25-mer. Less if the miRNA is less than 25
Hybridization controls	<i>bioB</i> , <i>bioC</i> , <i>bioD</i> , and <i>cre</i>
Housekeeping controls	1 Human 5.8s rRNA probe set (11 probes/set)
Control sequences	22 Control probe sets (10 probes/set)
Background probes	95 antigenomic probe sets, binned by GC content (≤94 probes/set)
Hybridization volume	80 μL to 100 μL (depending on the assay used)
Library files	miRNA_2_0
Fluidics script	FS450_0003

Storage, handling, and stability

This cartridge array consists of a square glass substrate mounted in a plastic cartridge. 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 nonabrasive laboratory tissue.

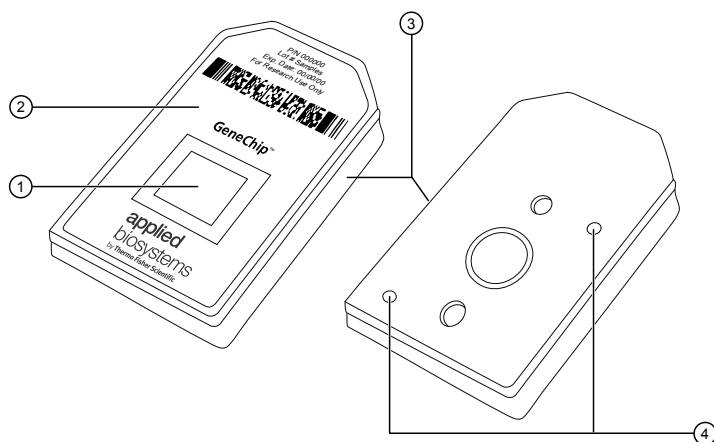


Figure 1 Cartridge array.

- ① Probes on a glass substrate ③ Notch
- ② Plastic cartridge ④ Septa

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

Ordering information

Cat. No.	Product name	Description
Arrays		
901753TS	GeneChip™ miRNA 2.0 Array	2 arrays
901754	GeneChip™ miRNA 2.0 Array	6 arrays
901755	GeneChip™ miRNA 2.0 Array	30 arrays
Supporting products		
900301	GeneChip™ Control Oligo B2, 3 nM	30 reactions
900720	GeneChip™ Hybridization, Wash, and Stain Kit ^[1]	30 reactions
900721	GeneChip™ Wash Buffer A	800 mL
900722	GeneChip™ Wash Buffer B	600 mL

^[1] Each kit contains 1 Hybridization Module, 1 Stain Module, 3 bottles of Wash Buffer A, and 1 bottle of Wash Buffer B, sufficient for 30 reactions. Individual kit components may be ordered separately.

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

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Revision history: Pub. No. MAN0017697

Revision	Date	Description
A.0	09 July 2018	Initial release in Thermo Fisher Scientific document control system. Supersedes legacy Affymetrix publication number 702985. Updated to the current document template, with associated updates to trademarks, logos, licensing, and warranty.

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- 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.