

# GeneChip™ Zebrafish Genome Array

Catalog Numbers 900487 and 900488

Doc. Part No. 701554 Pub. No. MAN0017688 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](http://thermofisher.com/support).

## Product use

The Applied Biosystems™ GeneChip™ Zebrafish Genome Array can be used to study gene expression of over 14,900 *Danio rerio* transcripts. Sequence information for this array was selected from the following public data sources: RefSeq (July 2003), GenBank™ (release 136.0, June 2003), dbEST (July 2003), and UniGene (Build 54, June 2003). Probe sets on the array were designed with 16 oligonucleotide pairs to detect each transcript. This array was designed in collaboration with representative members of the Zebrafish community and the National Institutes of Health.

Visit our website for a complete list of supporting documentation including procedures regarding target preparation, target hybridization, fluidics station setup, probe array scan, and data analysis.

## Instrumentation and software required

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

## Critical specifications

| Item                       | Specification  |
|----------------------------|--|
| Feature size               | 18 µm  |
| Probe pairs/sequence       | 16   |
| Array format               | 49   |
| Hybridization controls     | <i>bioB</i> , <i>bioC</i> , <i>bioD</i> , and <i>cre</i>                             |
| Poly-A controls            | <i>dap</i> , <i>lys</i> , <i>phe</i> , and <i>thr</i>                                |
| Housekeeping/control genes | GAPDH, α 1 Actin   |
| Hybridization volume       | 200 µL<br>The total fill volume of the cartridge is 250 µL.                          |
| Fluidics protocol          | EukGE-WS2v4<br>Fluidics Station 450/250 scripts are designated by the suffix “_450.” |
| Library files              | Zebrafish  |

## 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.

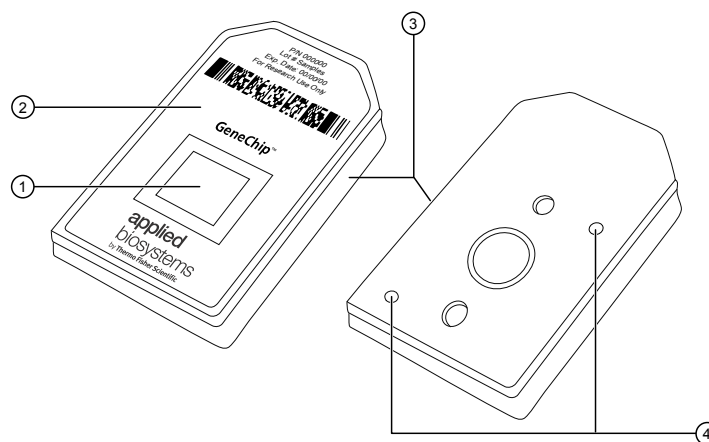


Fig. 1 Cartridge array.

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

Unless otherwise indicated, all materials are available through [thermofisher.com](http://thermofisher.com). MLS: Fisher Scientific ([fisherscientific.com](http://fisherscientific.com)) or other major laboratory supplier.

| Product   | Description  | Cat. No. |
|---|--------------|----------|
| GeneChip™ Zebrafish Genome Array                            | 5 arrays     | 900487   |
|   | 30 arrays    | 900488   |
| <b>Supporting products</b>                                  |              |          |
| GeneChip™ 3' IVT PLUS Reagent Kit                           | 10 reactions | 902415   |
|   | 30 reactions | 902416   |
| GeneChip™ Hybridization, Wash, and Stain Kit <sup>[1]</sup> | 30 reactions | 900720   |

<sup>[1]</sup> 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.

## Customer and technical support

Visit [thermofisher.com/support](http://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](http://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](http://www.thermofisher.com/support).



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

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

**DISCLAIMER:** TO THE EXTENT ALLOWED BY LAW, LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

**Revision history:** Pub. No. MAN0017688

| Revision | Date          | Description   |
|----------|---------------|---|
| A.0      | 30 April 2018 | Initial release in Thermo Fisher Scientific document control system.<br>Supersedes legacy Affymetrix publication number 701554.<br>Updated to the current document template, with associated updates to trademarks, logos, licensing, and warranty. |

**Important Licensing Information:** These products may be covered by one or more Limited Use Label Licenses. By use of these products, you accept the terms and conditions of all applicable Limited Use Label Licenses.

©2018 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. All other trademarks are the property of their respective owners.