

GeneChip™ *C. elegans* Genome Array

Catalog Numbers 900383 and 900384

Pub. No. 701152 Rev. 4

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™ *C. elegans* Genome Array is a single array that enables the monitoring of more than 22,500 transcripts from *C. elegans*, an important model organism for developmental biology and functional genomics. Sequence information used for the design of the GeneChip™ *C. elegans* Genome Array was downloaded from the Sanger Center database on December 05, 2000, and from GenBank™ release 121. All sequences were functionally reannotated for improved descriptions.

Complementary oligonucleotide probes that detect gene transcripts are synthesized *in situ* on the arrays. Each gene sequence for *C. elegans* is represented by approximately 11 different probe sequences arranged in probe pair sets.

Visit our website for a complete list of supporting documentation including procedures regarding target preparation, target hybridization, fluidics station setup, scanning, 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	~11
Array Format	49
Oligo Length	25-mer
Hybridization Controls	<i>bioB</i> , <i>bioC</i> , <i>bioD</i> from <i>E. coli</i> and <i>cre</i> from P1 bacteriophage
Poly-A Controls	<i>dap</i> , <i>lys</i> , <i>phe</i> , <i>thr</i> , <i>trp</i> from <i>B. subtilis</i>
<i>C. elegans</i> Maintenance Genes	actin, catalase, GAPDH, gly14, ubiquitin
Hybridization Volume	200 μL. The total fill volume of the cartridge is 250 μL.
Fluidics Protocol	EukGE-WS2 Fluidics Station 450/250 scripts are designated by the suffix "_450".
Library Files	Celegans.cif, Celegans.cdf

Ordering information

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

Product	Description	Cat. No.
GeneChip™ <i>C. elegans</i> Genome Array	5 arrays	900383
	30 arrays	900384
Supporting products		
GeneChip™ 3' IVT PLUS Reagent Kit	10 reactions	902415
	30 reactions	902416
GeneChip™ Hybridization, Wash, and Stain Kit ^[1]	30 reactions	900720

^[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.

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.

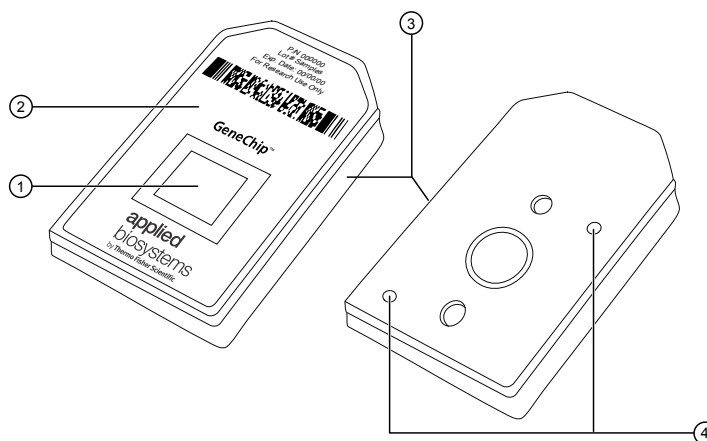


Fig. 1 Cartridge array.

- 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.

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.



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Revision history: Pub. No. 701152

Revision	Date	Description
4	17 November 2017	Update document to current template.
3	26 July 2009	Baseline for revision history.

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