



GeneChip® miRNA Array

Intended Use

The GeneChip® miRNA Array is a single GeneChip® brand array comprised of 46,228 probe sets representing over 6703 microRNA sequences (71 organisms) from the Sanger miRNA database (V.11) and an additional 922 sequences of Human snoRNA and scaRNA from the Ensembl database and snoRNABase. Four copies of each miRNA probe were included (distributed) on the array. For each snoRNA and scaRNA, 11-probes were used. All probe sets are PM (perfect match only).

The oligonucleotide probes on GeneChip miRNA Array are synthesized *in situ* using Affymetrix' photolithographic process. GeneChip probe arrays are for research use only and not intended for use in diagnosis of disease.

INSTRUMENTATION AND SOFTWARE REQUIRED

1. GeneChip® Scanner 3000 7G
2. GeneChip® Command Console® Software (AGCC)
3. GeneChip® Fluidics Station 450

ACCESSORY FILES

Fluidics

The fluidics scripts and hybridization cocktail preparation vary depending on the labeling protocol. Refer to the package insert of the labeling kit that you will be using.

The fluidics scripts (when available) can be downloaded from: www.affymetrix.com/support/technical/fluidics_scripts.affx.

Library Files

Library files contain information about the probe array design layout and other characteristics, probe use and content, and scanning and analysis parameters. These files are unique for each probe array type. The library files may be downloaded from: www.affymetrix.com/support/technical/libraryfilesmain.affx.

Critical Specifications	
Array Format	400
Feature Size	11 µm
Probe Pairs/Sequence for miRNA	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). The total fill volume of the cartridge is 100 µL.
Fluidics Required	Fluidics Station FS450
Library Files	miRNA

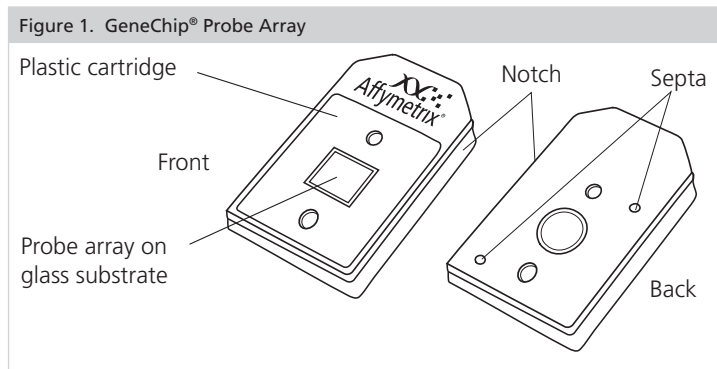
PRECAUTIONS

1. GENECHIP PROBE ARRAYS ARE FOR RESEARCH USE ONLY; NOT FOR 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 probe array cartridges.

STORAGE, HANDLING AND STABILITY

The probe array consists of a square glass substrate mounted in a plastic cartridge (Figure 1). 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 non-abrasive laboratory tissue.



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

ORDERING INFORMATION

P/N	Product Name	Description
ARRAYS		
901324	GeneChip® miRNA Array	2 Arrays
901325	GeneChip® miRNA Array	6 Arrays
901326	GeneChip® miRNA Array	30 Arrays
SUPPORTING PRODUCTS		
900301	Control Oligo B2, 3nM	Sufficient for 30 Reactions
900720	GeneChip® Hybridization, Wash, and Stain Kit ¹	Sufficient for 30 Reactions
900721	Wash Buffer A	800 mL
900722	Wash Buffer B	600 mL

1. Each kit contains one (1) Hybridization Module, one (1) Stain Module, three (3) bottles of Wash Buffer A and one (1) bottle of Wash Buffer B, sufficient for 30-reactions. Individual kit components may be ordered separately.

Affymetrix® products can be purchased directly from Affymetrix in the United States, and many European and Asian countries. For all other territories, please view a list of our distribution partners, which can be located at: www.affymetrix.com/site/contact/index.affx.

Warranty Information

The GeneChip® miRNA Array is covered by Affymetrix' limited warranty as set forth under the "Limited Warranty" section below. Affymetrix will provide no support for the array. Affymetrix will not support any assay protocol used by the customer with the array. The array is not functionally tested by Affymetrix, and Affymetrix provides no warranty regarding the functional performance of the array in any specific customer application.

Limited Warranty.

Affymetrix warrants to you (but not to any third party) that Affymetrix GeneChip® Arrays shall be free from physical defects. Affymetrix' sole and exclusive liability and your sole and exclusive remedy under the foregoing warranty, is to provide you with a replacement array provided if the following conditions are met: (i) you used the affected array prior to its expiration date and notify Affymetrix promptly after you become aware of the defect; (ii) you cooperate with Affymetrix in Affymetrix' investigation as to the cause of the alleged physical defect and provide any information required by Affymetrix; and (iii) Affymetrix shall make the final determination in good faith, as to whether: (a) any physical defect in fact exists; and (b) if so, whether such physical defect was caused by Affymetrix' manufacturing process, and not user error, improper storage or handling, or any other cause for which Affymetrix is not responsible.

LIMITED LICENSE

Subject to the Affymetrix terms and conditions that govern your use of Affymetrix products, Affymetrix grants you a non-exclusive, non-transferable, non-sublicensable license to use this Affymetrix product only in accordance with the manual and written instructions provided by Affymetrix. You understand and agree that except as expressly set forth in the Affymetrix terms and conditions, that no right or license to any patent or other intellectual property owned or licensable by Affymetrix is conveyed or implied by this Affymetrix product. In particular, no right or license is conveyed or implied to use this Affymetrix product in combination with a product not provided, licensed or specifically recommended by Affymetrix for such use.

CONTACT INFORMATION

Affymetrix, Inc.

3420 Central Expressway
Santa Clara, CA 95051 USA
E-mail: support@affymetrix.com
Tel: 1-888-362-2447 (1-888-DNA-CHIP)
Fax: 1-408-731-5441

Affymetrix UK Ltd

Voyager, Mercury Park,
Wycombe Lane, Wooburn Green,
High Wycombe HP10 0HH
United Kingdom
E-mail: supporteurope@affymetrix.com
UK and Others Tel: +44 (0) 1628 552550
France Tel: 0800919505
Germany Tel: 01803001334
Fax: +44 (0) 1628 552585

Affymetrix Japan, K. K.

ORIX Hamamatsucho Bldg, 7F
1-24-8 Hamamatsucho, Minato-ku
Tokyo 105-0013 Japan
E-mail: supportjapan@affymetrix.com
Tel: +81-3-6430-4020
Fax: +81-3-6430-4021

Please visit our web site for international distributor contact information www.affymetrix.com

PATENTS

Products may be covered by one or more of the following patents: U.S. Patent Nos. 5,445,934; 5,744,305; 5,945,334; 6,140,044; 6,261,776; 6,291,183; 6,346,413; 6,399,365; 6,420,169; 6,551,817; 6,610,482; 6,733,977; 6,955,915 and D430,024 and other U.S. or foreign patents. Products are manufactured and sold under license from OGT under 5,700,637 and 6,054,270.

TRADEMARKS

Affymetrix®, GeneChip®, NetAffx®, Command Console®, GeneTitan®, Powered by Affymetrix™, GeneChip-compatible™, Genotyping Console™, DMET™, Axiom™, and GeneAtlas™ are trademarks or registered trademarks of Affymetrix, Inc. All other trademarks are the property of their respective owners.

COPYRIGHT

© 2008-2010 Affymetrix, Inc. All rights reserved.