



GeneChip® Mapping 10K Xba Assay Kit



INTENDED USE

The GeneChip® Mapping 10K Xba Assay Kit is used with the GeneChip Human Mapping 10K Array Xba 131 or the GeneChip Human Mapping 10K Array Xba 142 2.0 to enable genotyping of greater than 10,000 Single Nucleotide Polymorphism (SNP) loci. The GeneChip Mapping 10K Xba Assay Kit provides users with the reagents necessary to selectively amplify a portion of the human genome, and to fragment and label this product. The GeneChip Mapping 10K Xba Assay Kit also provides a human genomic reference DNA, and an Oligonucleotide Control Reagent for hybridization.

This product is for research use only and not intended for use in the diagnosis of a disease.

Please refer to the *GeneChip Mapping 10K 2.0 Assay Manual* (P/N 701722) or the *GeneChip Mapping Assay Manual* (P/N 701441) for procedures for DNA target preparation, target hybridization, fluidics setup, array scanning, and data analysis instructions for processing GeneChip Mapping 10K arrays.

COMPONENTS

Box 1 (store in a room free of DNA templates):

- Adaptor, Xba (5 µM) - P/N 900410
- PCR Primer, 001 (10 µM) - P/N 900409

Box 2 (store in a room free of PCR amplicons):

- Reference Genomic DNA, 103 (50 ng/µL) - P/N 900421

Box 3 (may store in a room with PCR amplicons):

- GeneChip Fragmentation Reagent (see tube label for unit concentration) - P/N 900131
- 10X Fragmentation Buffer - P/N 900422
- GeneChip DNA Labeling Reagent (5 mM) - P/N 900430
- Terminal Deoxynucleotidyl Transferase (30 U/µL) - P/N 900426
- 5X Terminal Deoxynucleotidyl Transferase Buffer - P/N 900425
- Oligonucleotide Control Reagent - P/N 900440

INSTRUCTIONS FOR USE

Please refer to the *GeneChip Mapping 10K 2.0 Assay Manual* or the *GeneChip Mapping Assay Manual* for procedures on processing DNA and oligonucleotide controls.

ORDERING INFORMATION

P/N	Product Name	Description
Assay Kit		
900441	GeneChip® Mapping 10K Xba Assay Kit	Sufficient for 30 reactions
Supporting Products		
900539	GeneChip® Human Mapping 10K Array Xba 142 2.0	Contains 5 Mapping 10K 2.0 Arrays
900540	GeneChip® Human Mapping 10K Array Xba 142 2.0	Contains 30 Mapping 10K 2.0 Arrays
900445	GeneChip® Human Mapping 10K Array Xba 131	Contains 5 Mapping 10K Arrays
900446	GeneChip® Human Mapping 10K Array Xba 131	Contains 30 Mapping 10K Arrays
690030	GeneChip® DNA Analysis Software (GDAS)	GDAS provides data analysis for Affymetrix GeneChip DNA Arrays including automated SNP and sequence analysis with quality scores.

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www.affymetrix.com/site/contact/index.affx

PRECAUTIONS _____

IMPORTANT: The GeneChip Fragmentation Reagent and the Terminal Deoxynucleotidyl Transferase contain active enzymes. The following precautions are recommended to ensure optimal activity:

- store at -20°C
 - minimize repeated exposure to temperatures > 0°C
 - use a benchtop cooler when handling the reagent
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 and other potentially infectious materials governed by this act. Never pipette 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.
 7. Three different reagent boxes are provided to allow storage of the components in a manner consistent with the recommended workflow to minimize the chance of DNA contamination.

SAFETY INFORMATION:

A MSDS is available. Caution: 5X Terminal Deoxynucleotidyl Transferase Buffer contains cacodylic acid. Warning: Harmful [75-60-5]

www.affymetrix.com/support/technical/safetydatasheetsmain.affx

STORAGE, HANDLING, AND STABILITY _____

The reagents contained in the GeneChip Mapping 10K Xba Assay Kit are shipped on dry ice and should be stored at -20°C. Refer to the expiration date on the package label. Do not use reagent components after the expiration date.

IMPORTANT: Store the unopened GeneChip Mapping 10K Xba Assay Kit in a room that is free of PCR amplicons. The reagent components are separated into three boxes to support the recommended workflow, and minimize the chance of DNA contamination during use. Each of these three boxes has different recommended storage locations: Box 1 – store in a room free of DNA templates. Box 2 – store in a room free of PCR amplicons. Box 3 – may store in a room with PCR amplicons.

CONTACT INFORMATION _____

Affymetrix, Inc.

3380 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
Tel: +44 (0) 1628 552550
Fax: +44 (0) 1628 552585



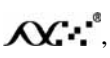
Affymetrix Japan, K.K.

Mita NN Bldg, 16 F
4-1-23 Shiba, Minato-ku, Tokyo
108-0014 Japan

E-mail: supportjapan@affymetrix.com
Tel: +81-(0)3-5730-8200
Fax: +81-(0)3-5730-8201

www.affymetrix.com

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PATENTS _____

The reagents provided hereunder include a limited, nontransferable license to U.S. patent no. 6,107,023 and its foreign equivalents to purchaser for research and development use only by the purchaser. This limited license permits purchaser to amplify nucleic acids and consume the reagents provided with this kit and expires upon consumption of the reagents.

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