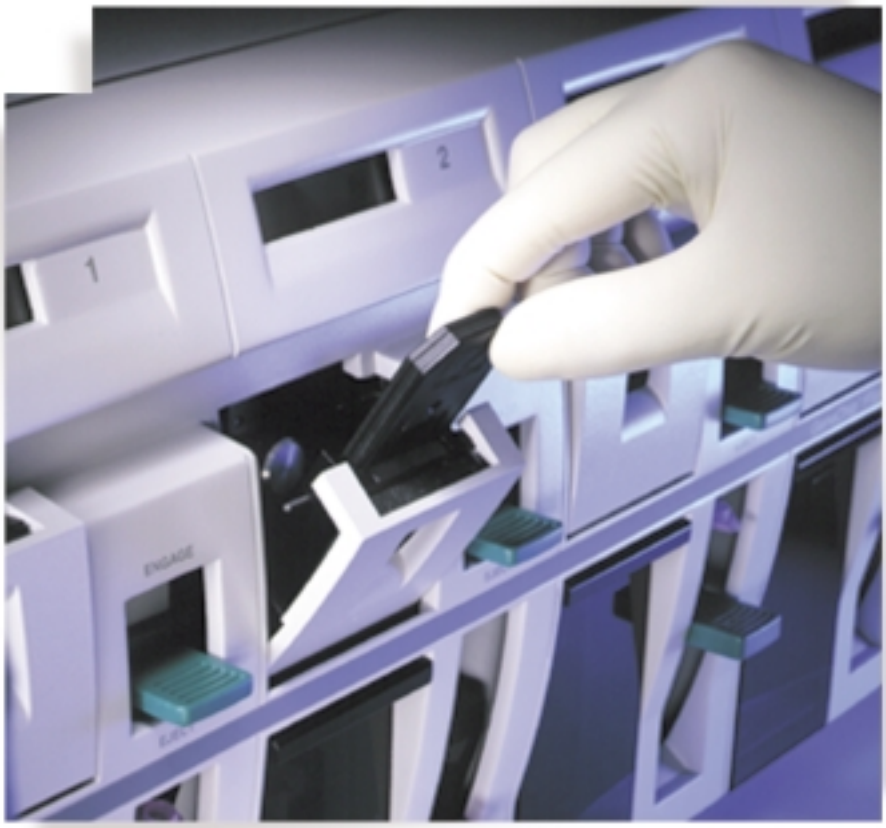
GeneChip® Test3 Array

An Analysis Tool for Validating Target Quality

The GeneChip® Test3 Array provides a convenient and accurate means of determining the quality of labeled target prior to analysis on GeneChip® expression arrays, allowing you to proceed with your gene expression experiments with confidence. Using GeneChip® Test3 Arrays can help you save time, conduct experiments with confidence, and achieve more consistent results.



Applications

Evaluate Target Quality

The GeneChip® Test3 Array contains probes representing a subset of characterized genes from various organisms including mammals, plants and eubacteria. For each eukaryotic organism represented, probes derived from 5', middle, and 3' portions of the gene are represented. By measuring signals from these three probe sets, researchers can identify degraded samples containing insufficient target that may result in poor expression array results.

Training Tool for New Users

Hands-on practice is important for acquiring reliable sample preparation expertise. Using GeneChip® Test3 Arrays can give you valuable experience in evaluating samples and determining the level of labeling efficiency with minimal starting material.

Standardized Controls

Control probe sequences represented on this array are identical in sequence to those genes synthesized on all commercially available GeneChip® arrays. This ensures a standard comparison between test array and genome array results.

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Maintenance Genes

Additionally, the GeneChip® Test3 Array contains a subset of human housekeeping/maintenance genes shown to be expressed early on in fetal development and throughout adulthood (*Physiol Genomics* 2: 143-147, 2000). A smaller subset of mouse maintenance genes are also represented on the array. This set of genes, thought to be constitutively expressed to maintain cellular function, may serve as a useful internal control. The probe sequences are identical to those on the commercially available GeneChip® Human Genome U95 Set and GeneChip® Murine Genome U74 Set.

Species/Organism	Common Name	No. of Gene Sequences
Arabidopsis thaliana	*Thale Cress*	*5*
Bacillus subtilis	*Same*	*5*
Bacteriophage P1	*Same*	*1*
Bos taurus	*Cow*	*6*
Caenorhabditis elegans	*Worm*	*5*
Canis familiaris	*Dog*	*5*
Drosophila melanogaster	*Fruit Fly*	*4*
Escherichia coli	*Same*	*9*
Glycine max	*Soybean*	*6*
Homo sapiens	*Human*	*24*
Lycopersicon esculentum	*Tomato*	*5*
Mus musculus	*Mouse*	*16*
Mycobacterium tuberculosis	*Tuberculosis Bacteria*	*5*
Oryza sativa	*Rice*	*6*
Pseudomonas aeruginosa	*Same*	*7*
Rattus norvegicus	*Rat*	*6*
Saccharomyces cerevisiae	*Yeast*	*9*
Staphylococcus aureus	*Same*	*6*
Streptococcus pneumoniae	*Same*	*6*
Sus scrofa	*Pig*	*8*
Triticum aestivum	*Wheat*	*5*
Human Immunodeficiency Virus	*HIV*	*1*
Zea mays	*Corn*	*5*

Ordering Information:

Part No.	Name
900341	GeneChip® Test3 Array (contains 5 arrays)
900342	GeneChip® Test3 Array (contains 30 arrays)

Specifications

Array Size:	Micro Format
Feature Size:	20 µm
Oligonucleotide probe length:	25mer
Probe pairs/sequence:	16-20
Detection sensitivity:	1:100,000*
Control sequences included:	
Hybridization controls:	*bioB, bioC, bioD* and *cre*
Poly A controls:	*dap, lys, phe, thr, trp*

* As measured by detection in a comparative analysis between a complex target containing spiked control transcripts and a complex target with no spikes.

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Not for use in diagnostic procedures.

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