

Microarrays



Mouse genome microarray

Agilent Technologies introduces a whole mouse genome microarray, which includes more than 41,000 unique features, representing all known mouse genes and related transcripts. It incorporates the most current mouse genome data by combining content from recent releases of public mouse genome databases (including RefSeq, Ensembl, UCSC Golden Path, RIKEN, NIA, MGI, GenBank and UniGene) as well as sequence information submitted by Agilent microarray users. The microarray will benefit scientists conducting genome-wide gene-expression profiling research in such fields as oncology, cardiovascular biology, immunology and toxicology/toxicogenomics.

<http://www.agilent.com/>



Array for genome-wide profiling

GE Healthcare has added a mouse whole genome bioarray to its CodeLink microarray platform portfolio. Designed for comprehensive genome-wide mouse gene expression profiling, the bioarray contains a set of approximately 35,000 probes targeting more than 36,000 mouse transcripts on a single slide. The platform's sensitivity, reproducibility, specificity and accuracy allow researchers to detect more genes, particularly low abundance genes, consistently and accurately.

<http://www.gehealthcare.com/>



Advanced diagnostics

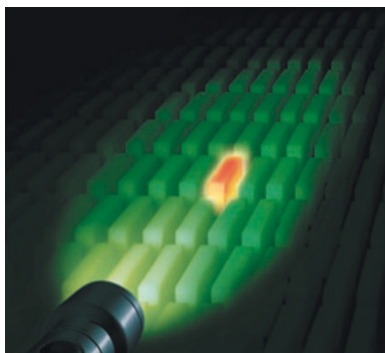
The NanoChip 400, from Nanogen, is an advanced molecular diagnostic testing and diagnostic development platform ideal for mid- to high-volume laboratories where the need to streamline testing and workflow is a high priority. The automated system facilitates detection of known genetic sequences, such as single nucleotide polymorphisms (SNPs), using a 400-site electronic microarray upon which molecular tests can be developed and conducted, offers increased throughput for running multiplex molecular assays and simplifies laboratory workflow by minimizing hands-on time.

<http://www.nanogen.com>

© 2005 Nature Publishing Group <http://www.nature.com/naturebiotechnology>



Reagents & enzymes



qRT-PCR kit

Finnzymes' DyNAmo SYBR Green 2-Step qRT-PCR kit is engineered for specific and sensitive quantification of RNA. The kit includes optimized 2× mixes for cDNA synthesis and fol-

lowing qPCR. The performance of the cDNA synthesis is based on a reverse transcriptase from M-MuLV and the qPCR step is based on a hot-start version of a modified *Thermus brockianus* DNA polymerase. The modified polymerase incorporates a nonspecific DNA binding domain that lends physical stability to the polymerase-DNA complex.

<http://www.finnzymes.com/>

Analyte specific reagent sets

Cepheid's Analyte Specific Reagent (ASR) products include primer and probe sets for identifying *Bordetella pertussis*, HSV (Type 1 or 2), Enterovirus, Norovirus and Parvovirus B19. Comprised of targeted primer and probe sets in a lyophilized bead format for improved storage stability and ease of use, each ASR is also manufactured under

cGMP standards.

<http://www.cepheid.com/>

Protein delivery

The Passport Protein Delivery Reagent, available from Cambrex, is ideal for noncytotoxic delivery of biologically active cargo molecules, such as proteins, peptides or small molecules directly into living cells for the study of cell and protein function, while avoiding the problems of DNA transfections. Coupling of Passport reagent with cargo molecules is achieved by simply incubating appropriate amounts of each component at room temperature for 15–30 minutes, and diluting with culture medium and apply to culturing cells. Delivery is efficient (up to 100% of cultured primary cells or cell lines) and allows rapid analysis of the unharmed transduced cells.

<http://www.cambrex.com/>