

Human Genome Array Kit

KEY FEATURES

MOLECULAR SENSITIVE | HIGH RESOLUTION SCAN OF THE ENTIRE GENOME ON A SINGLE CHIP | ONE-COPY CHANGE SENSITIVITY | 3172 VALIDATED BAC CLONES | HIGH SIGNAL-TO-NOISE RATIO

THE COMPANY

Array Genomics is pleased to announce exclusive distribution of the brand new 0.8 Mb Human BAC DNA Integra Chip™. This product has been developed by Integragen, a company which is a spin-off from the French Human Genome project.

Array Genomics vision is to establish a technology platform comprising genomic profiling, micro-array products, confirmatory Fish DNA probes, media, equipment and image analysis software offering the latest tools for the identification of human genetic and chromosomal anomalies for worldwide genetic and cytogenetic laboratories.

MICRO-ARRAY TECHNOLOGY

Human BAC clones on a chip

Array Genomics introduces IntegraChip™ "BAC clones on a chip" technology.

IntegraChip™ BAC arrays generate a genome-wide molecular profile and a quantification of chromosomal imbalances on a single chip. Chromosomal imbalances are common events in solid tumors and constitutional disorders. Our micro-arrays can be used to detect such imbalances.

The Human BAC Array Kit is available as a complete hybridisation system. The kit includes two arrays with 3,172 validated non-overlapping BAC clones from different BAC clones library spotted in quadruplicate, along with the necessary reagents and solutions for labelling and hybridisation. Amplified BAC clone DNA is printed on Coming UltraGap™ slides. The BACs span the genome at approximately 0.8 Mb intervals. Array Genomics' technology platform enables users to increase markedly the signal sensitivity, specificity, reproducibility and utility of their micro-arrays.

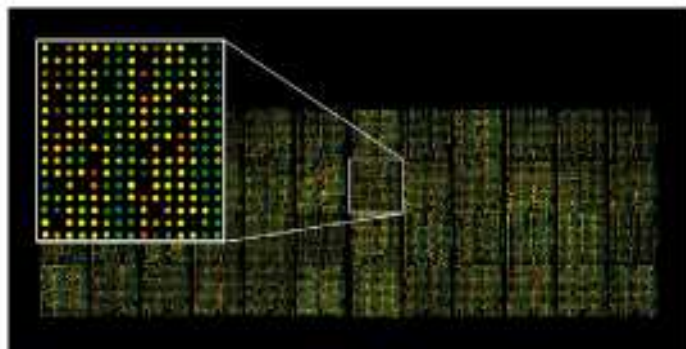
The selection process of our clones comprises

- 1 End sequencing
- 2 Sequence comparison using public databases
- 3 In house and independent verification

Sensitive, low-background micro-arrays

The core technology provided by Array Genomics opens up new perspectives to researchers particularly in the field of molecular karyotyping and molecular pathology. The protocols are simple to apply. The higher sensitivity, the higher specificity and the extremely low level of background fluorescence ensure excellent and reliable results.

The arrays are ideal for molecular karyotyping. They provide the researcher with the ability to perform complete genome scans that detect numerous chromosomal abnormalities simultaneously with one-copy change sensitivity.



- 1 Improved sensitivity and dynamic range
- 2 Turnaround time of approximately 24 hours

Service

As a complement to our micro-array kit, we also offer a customised genomic profiling service.

"just give us your DNA sample and we will analyse it and generate a high resolution profile of its cytogenetic anomalies including segmented monosomies, trisomies and cryptic imbalances".

PRODUCT

Key Features

- 3,172 validated clones
- BACs Spotted in quadruplicate in two separate zones
- Controls include pools of human BACs and rice DNA
- Unique barcode to ease data tracking
- Individual and batch quality control procedures
- BACs spanning the genome at approximately 0.8 Mb intervals
- Validation of the genomic loci of all BACs guaranteed
- Pre-treated BAC arrays ready for direct hybridisation

Data CD with

- Layout information
- Annotation data
- Autofluorescence images
- Protocol recommendations

Services

- Analysis with IntegraChip software™
- Customised genomic profiling and printing

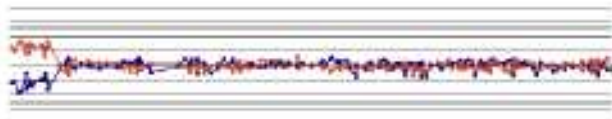
KIT COMPONENTS

The 0.8 Mb resolution Human BAC Array Kit is available as a complete hybridisation system :

2 BAC Micro-arrays
Labelling Buffer
Precipitation Buffer
DNase free water

Items required but not supplied

- DNA labelling Kit
- Cy3-dCTP & Cy5-dCTP
- Hybridisation buffer
- Micro-array hybridisation chamber
- Scanner



FOR RESEARCH USE ONLY

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