

BD Atlas™ Custom Array Printing Services

Design your own BD Atlas™ Array on-line and let our experts do the rest

- Print any gene on glass, plastic, or nylon
- Choose from our extensive collection of human, mouse, and rat genes—or add your own
- Easy-to-use on-line Virtual Array Builder and Gene Search tools

Having trouble finding a gene array to fit your needs? Maybe you just want to focus on a select set of genes. Then why not design your own expression array using our **BD Atlas™ Custom Array Printing Services**. Simply provide us with the GenBank, LocusLink, or BD Biosciences Clontech ID numbers of the genes you are interested in, and we will print the array for you.

Affordable and flexible, BD Atlas Custom Arrays are meticulously engineered to ensure accurate, reliable, and reproducible results. In fact, genes exhibiting greater than a three-fold change in expression using BD Atlas Arrays are confirmed by RT-PCR with a frequency of over 90%. Thus, custom arrays are ideal for performing new experiments or for confirming results obtained with more

extensive arrays that compare thousands of genes.

Design your array on-line

You can design your custom array on-line through our Bioinformatics home page at bioinfo.clontech.com. Here, our BD Atlas™ Gene Search & Virtual Array Builder lets you choose from over 13,000 human, 4,000 rat, and 8,000 mouse genes, as it guides you through the design and order process (Figure 1). You can select from our extensive collection of cDNAs and long oligos or submit your own list of genes. If we do not currently have an oligo or cDNA sequence that matches your gene, we will synthesize or clone one for you. After you select the desired genes and enter any of your own, tell us which BD Atlas Array to print: nylon, glass, or plastic—our newest support, designed especially for high-density printing. Like glass, plastic arrays provide a rigid, non-porous surface that resists non-specific binding; but like nylon, they can be analyzed by phosphorimaging.* Finally, tell us how many arrays you would like printed. The price is instantly calculated.

Product	Size	Cat. #	Price
BD Atlas Custom Plastic Microarray	each	CS2050-1	inquire
BD Atlas Custom Glass Microarray	each	CS2003	inquire
BD Atlas Custom Nylon Array	each	TP1002	inquire

Notice to Purchaser for BD Atlas™ Products

The BD Atlas™ Array products sold by BD Biosciences Clontech are for research purposes only. Certain isolated DNA sequences included on the BD Atlas Arrays may be covered by U.S. Patents. Presently, it is not clear under U.S. laws whether commercial users must obtain licenses from the owners of the rights to these U.S. patents before using BD Atlas Arrays. These products and the sequences of the polynucleotides thereon are intended to be used for the purchaser's own internal research purposes only and may not be used for drug development or diagnostic purposes, or for human use. Using BD Atlas Glass Microarrays for dual color analysis on a single array in which at least two different samples are labeled with at least two different labels may require a license under one of the following patents: U.S. Patent Nos. 5,770,358 or 5,800,992 (Affymetrix); and U.S. Patent No. 5,830,645 (Regents of The University of California).

Getting organized:
Use our bioinformatics web site to manage your gene lists

Along with the Virtual Array Builder, our Bioinformatics home page provides a complete set of tools to help you compare your list of genes to our list of cDNA fragments and long oligos. In the process, you can separate your list into unique and non-unique entries, find corresponding LocusLink and Unigene ID numbers, eliminate redundancies among two or more lists, and BLAST sequences against our database of probes. The results, displayed in text and table formats, can be pasted into the Virtual Array Builder or any other application. These on-line resources—the **Gene List Separator**, **Probe Finder**, **Venn Operations**, and **BLAST Probe Finder**—not only simplify your lists, they also identify the best probes for detecting the gene(s) of interest. The tools are free of charge and require no registration.

*See our catalog for a full comparison of the nylon, glass, and plastic formats.

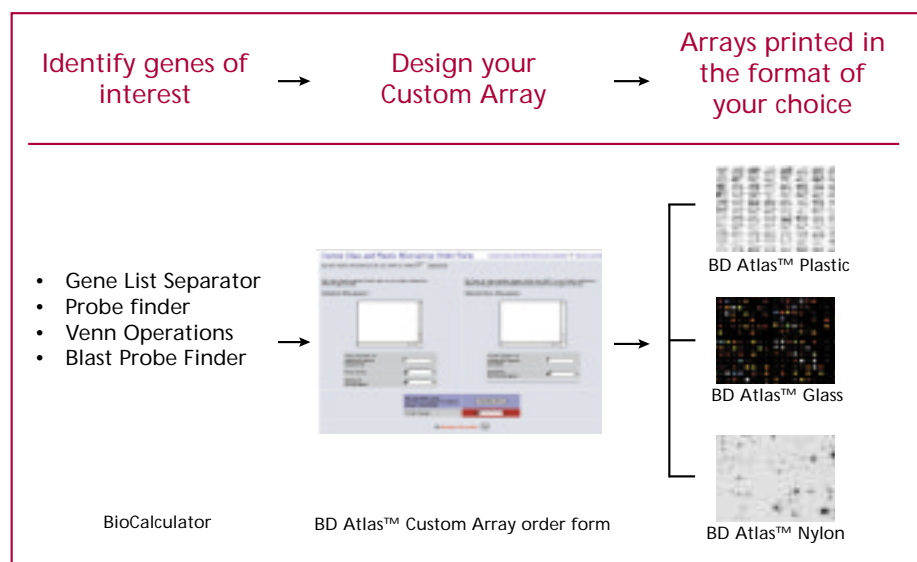


Figure 1. Designing BD Atlas™ Custom Arrays on-line. This simple flow chart illustrates the process for designing custom arrays. If you are starting with your own list of genes—in the form of GenBank, LocusLink, or Unigene Accession numbers, or DNA sequences—you may sort the list using one of our bioinformatics tools. With Venn Operations, you can even compare two lists to produce a single non-redundant list. Next, use our Gene Search and Virtual Array Builder to compile a list of unique sequences for custom printing. Finally, choose the desired surface—nylon, glass, or plastic. To order the array, submit your request on-line. A written confirmation of your order will be sent by e-mail.

To find out more about our BD Atlas™ Array products and custom services, log on to www.clontech.com/atlas.