

- FASTER MICROARRAY ASSEMBLY
- GUARANTEED PRODUCT QUALITY
- CUSTOM SELECTION AND GUARANTEED YIELDS

Streamline Your Microarray Research

QuikSpot™ PCR products^Ω take the difficulties out of amplifying your own cDNAs for microarrays. We offer ready-to-spot PCR products that are guaranteed in quality and yield. Forget worrying about contamination issues; we use a gene-specific primer to ensure that only the right PCR products are generated.*

Constructing high-quality microarrays can be time consuming and requires optimizing yields and overcoming the challenge of contamination.

Fast Microarray Assembly

QuikSpot PCR products are derived from our extensive GeneConnection™ discovery clone collection that contains a combination of both public and proprietary genes. By providing these products in a ready-made format, we greatly simplify the process of preparing spotted microarrays. By having your gene-specific PCR products already made, you save valuable time by not having to perform amplifications. You can customize your order by selecting only genes of interest or purchase comprised sets. The GeneZoo™ and GeneJungle™ sets are collections of genes organized as public- or nonpublic- based sequences.

Guaranteed Product Quality

Most PCR products are created using vector-specific primers to amplify the entire cDNA insert. In contrast, we have increased the quality and gene specificity of our PCR products by amplifying only the 3' portion of the gene. We use one vector-specific primer and one gene-specific primer to create the 300 to 600 base pair PCR product. This eliminates the possibility of cross contamination between clones that can occur when using only vector-specific primers across an entire PCR plate. In addition, since the untranslated 3' portion of the gene is the unique portion of the sequence within gene families, expression analysis results are more likely to be gene-specific, minimizing chances for cross-hybridization with other similar sequences (Figure 1).

Custom Selection and Guaranteed Yields

Utilize our GeneConnection web portal to perform standard database inquiries to scan for products of interest. The site supports searches using Accession and UniGene numbers, key word and BLAST to allow you to quickly identify products relevant to your area of research. Once you have chosen the PCR products of interest, we prepare 1 to 3 micrograms of material for you supplied in easy-to-use 96-well microplate format. We guarantee 85% or higher amplification of your clones selected. You also have a choice of selecting ethanol-precipitate purified or unpurified PCR products (Figure 3).

Contributing Scientists

Stratagene: Becky Mullinax, David Wong, Ronda Allen, Andrew Firmin

* Patents pending
Ω, See page 96.

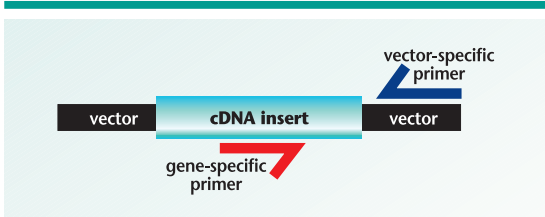


Figure 1

Insert-Specific Primers

Using one insert-specific primer and one vector-specific primer greatly increases the quality and specificity of the QuikSpot™ PCR products.

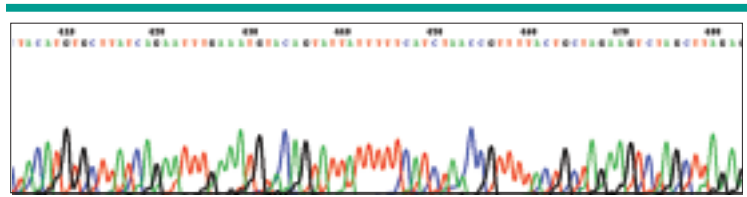


Figure 2

Gene-Specific Process Validation

Sequence chromatogram obtained from our QuikSpot PCR products. We used an internal primer, specific to this gene, along with a vector primer in our PCR reaction. We purified this PCR product with an ethanol precipitation and then ran a sequencing reaction using the same internal primer that was used in the PCR reaction. The sequence we obtained perfectly matched the expected sequence, verifying the process of using a gene-specific primer.

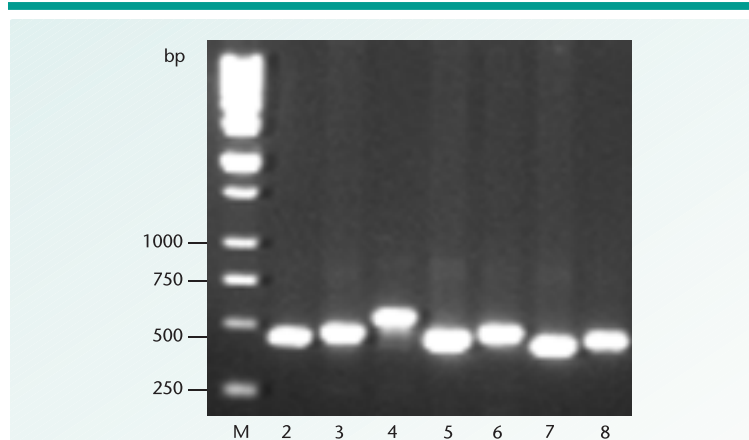


Figure 3

Ensured Yields

Clones from the GeneJungle™ collection were amplified using an internal gene-specific primer and a vector primer. The product was ethanol precipitated before being run on a 0.7% agarose gel along with a kb DNA ladder in 1X TBE. Lanes 2-8: Individually amplified QuikSpot PCR products. Lane M: Stratagene's kb DNA ladder. The PCR product must be of the correct size (300 to 600 bp) and consist of only a single band in order to pass our quality control specification. Densitometric analyses of the known ladder bands are cross-compared to the PCR products to guarantee amounts greater than 1 µg. Bands on the gel reflect the quality and quantity of PCR products generated.

To order QuikSpot PCR products, please visit Stratagene's website at www.stratagene.com and go to the GeneConnection Web Portal

QuikSpot™ PCR Products

Custom:

Custom selection of 96*, EtOH precipitate purified	#262000
Custom selection of 96*, unpurified	#262001

Sets:

GeneConnection™ Set, 11,935 products	#262100
GeneZoo™ Set, 8,533 products	#262200
GeneJungle™ Set, 3,402 products	#262300

* Custom selections of PCR products can be ordered in multiples of 96 and are supplied in a 96-well microplate format.