



MYselect: Custom Bait Libraries for Targeted Sequencing

MYselect is a fully customizable liquid-phase DNA capture system for targeted sequencing. We have developed a proprietary technology to synthesize large long-oligonucleotide libraries on solid substrates. We have taken the best of the oligonucleotide synthesis chemistry (high yield, low cost phosphoramidite chemistry) and combined it with digital photolithography for maximum flexibility in parallel synthesis. By so doing, we can synthesize tens of thousands of different oligonucleotides in parallel on the same substrate. The main advantage of combining phosphoramidite chemistry, digital photolithography and liquid phase synthesis is oligonucleotide library synthesis *at a reduced cost* while maintaining a stepwise yield well above 99%. Oligonucleotides are cleaved off the substrate and converted into biotinylated 120 mers RNA baits ready to capture your targeted sequences. Our technology permits highly flexible synthesis of any custom libraries with *no upfront design cost or minimal order size*.

PRODUCTS

MYselect kits contain all the necessary reagents for capturing genomic DNA fragments with RNA baits and subsequently releasing enriched target sequences. Our custom kits can contain from as little as a few hundred baits to over a million baits to fit your experimental needs.

PERFORMANCE

The percentage of reads on target range from 60 to 80% depending the application. Even in difficult cases where baits designed from EST sequences were used to capture and de-novo sequence genes of interest from a complex plant genome, up to 80% of the reads were on target.

FLEXIBLE BAIT LENGTHS

Thanks to our flexible technology, we can synthesize biotinylated baits as short as a few tens of bases and as long as 150 mers to accommodate our customer's needs. For standard capture, we recommend 120 mers baits. For special applications, we can also deliver DNA baits.

COMPETITIVE PRICING

Our technology is so flexible that we can make custom kits tailored to your need with no extra setup cost. No project is too small for us. We can also adapt our kit size to fit your experimental design. Please check our website for current pricing.



EXPERIENCED DESIGN TEAM

Our design team has a decade of experience designing molecular probes. We have developed our own proprietary software to optimize bait design and consequently experimental success.

PLATFORM COMPATIBILITY

MYselect kits are compatible with all major "Now-generation" sequencing platforms. Instructions for implementation with library construction kits are offered in the MYselect protocol.

WE ARE HERE TO HELP

If you are thinking about new ways to perform sequence capture, we will be happy to bring our expertise in bait design and synthesis to your project.

SEQUENCING SERVICE

We are offering service packages combining library construction, target enrichment and sequencing. This includes gene discovery service where we sequence mRNA, then design baits to capture and sequence corresponding genomic DNA.

<http://www.mycroarray.com/products/myselect.html>