PRODUCT SHEET

myBaits® Custom DNA-Seq

Customized NGS Target Capture Kits for DNA Samples

OVERVIEW

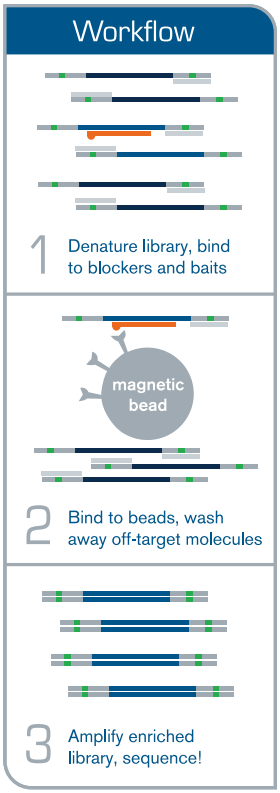
myBaits Custom DNA-Seq hybridization capture probes and reagents provide rapid, selective enrichment of target regions of interest from next-generation sequencing (NGS) libraries built from DNA samples. Hybridization capture reduces per-sample sequencing costs by orders of magnitude, greatly increasing the efficiency of any NGS project. This versatile and user-friendly technique is compatible with any downstream sequencing platform, including Illumina®, PacBio®, and Oxford Nanopore®. The proprietary oligo synthesis technology from Daicel Arbor Biosciences provides high-quality in-solution probes, which are paired with our optimized "v5" chemistry for maximum enrichment performance in any application. With complimentary project development assistance and probe design from our scientific experts, myBaits Custom DNA-Seq is the right solution for your next targeted NGS project.

FEATURES & BENEFITS

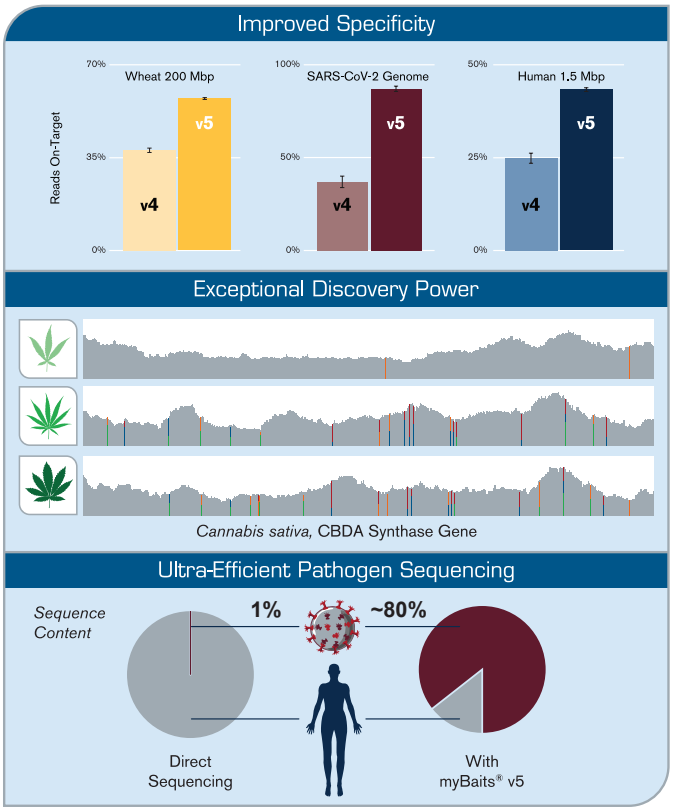
Superior Performance – Optimized chemistry and protocol for high, even coverage
High Efficiency – Focus your NGS on targets of interest, for significant savings
Free Design Service – Project and panel design assistance from our scientists
Open Platform – Compatible with any NGS library preparation system
Simple Protocol – Perfect for new or expert NGS users
Scalability – Different panel and kit sizes available for any project scale
Complete Solution – Convenient kits include hybridization & wash reagents

APPLICATIONS

- Variant Discovery
- Gene Re-sequencing
- Microbiome & Pathogens
- Species Identification
- Genotyping
- Ancient DNA/Paleogenomics
- Phylogenetics
- Exon Sequencing



Maximize Your Data Generation with Custom Capture Panels



*The latest myBaits "v5" hybridization capture chemistry achieves **higher reads-on-target coupled with maximum sensitivity, for exceptional novel variant discovery.** For example, efficiently sequence whole pathogen genomes from highly complex host or eDNA samples.*

myBaits Custom DNA-Seq kits provide focused NGS hybridization capture for any organism or project size. Curated probes in customer-selected genes of interest allow for specific, yet flexible hybridization to complementary target molecules in the organism of choice. myBaits kits have been successfully used in research projects on animals, plants, and microbes from fresh, degraded, and environmental DNA sources.

Harness the full power of NGS by discovering any type of genetic feature such as point mutations, copy number variants (CNV), small and large indels, and more. myBaits hybridization capture can be used on any type of specimen, even samples with short, degraded target molecules such as archaeological, forensic, or cell-free DNA. myBaits Custom DNA-Seq kits are compatible with all major NGS platforms, and the same probes can be used for both short and long-read sequencing.

PRODUCT TABLE *(additional options available at arborbiosci.com)*

Cat. No.	Description	Reactions	Samples*
300116.v5	Designs With 1-20K Probes (~1 Mb)	16	128
300196.v5	Designs With 1-20K Probes (~1 Mb)	96	768
300516.v5	Designs With 80-100K Probes (~5 Mb)	16	128
300596.v5	Designs With 80-100K Probes (~5 Mb)	96	768

** Assuming typical experimental setup with high-quality genomic DNA samples and short-read sequencing. Please see the myBaits v5 manual for recommended configurations for alternative applications.*

Daicel Arbor Biosciences myBaits kits can reduce your sequencing costs and enhance the efficiency of any NGS research project. If a complete solution is needed, from sample preparation to data delivery, our myReads® services team is available to handle projects of any size. Contact our experts today regarding your next project and join a growing community of researchers using one of the most versatile and efficient technologies in genetics research.

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