

myBaits[®] Hybridization Capture Kits

Efficient targeted NGS for any sample and application

OVERVIEW

The myBaits family of hybridization capture probes and reagents provide rapid, selective enrichment of target regions of interest from next-generation sequencing (NGS) libraries from DNA or RNA samples. **Hybridization capture dramatically 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 and probe design technologies from Daicel Arbor Biosciences provide high-quality in-solution probes, which are paired with our new “V5” chemistry for maximum enrichment performance for any application. With included project and probe design services from our dedicated team of scientific experts, myBaits kits are 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

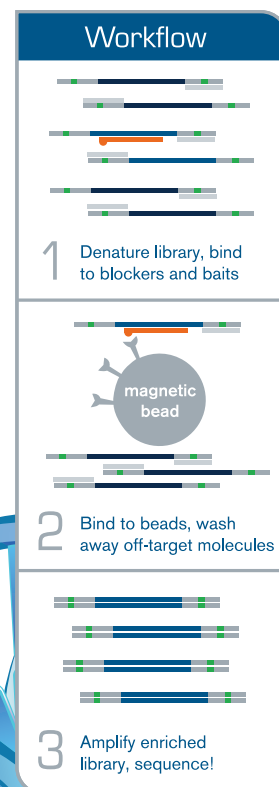
Open Platform – Compatible with any NGS library preparation system

Scalability – Different panel and kit sizes available for any project scale

Complete Solution – Convenient kits include hybridization & wash reagents

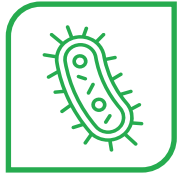
APPLICATIONS

- Variant/Marker Discovery
- Gene/Exon/SNP Re-sequencing
- Microbes / Pathogens
- Metagenomics
- Species Identification
- Genotyping
- Degraded & Ancient DNA
- Phylogenetics & Evolutionary Biology



myBaits Expert & Custom Community – Predesigned Panels

Daicel Arbor Biosciences supports a range of predesigned panels for many applications, with targets defined by research leaders in their respective fields. If none of the below examples fit your needs, our experts can design a fully custom panel for any application.



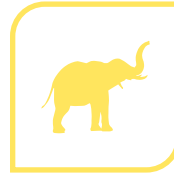
Microbial

- SARS-CoV-2
- 16S rRNA
- Antimicrobial Resistance (AMR)



Plant

- Wheat Exome
- Wheat Promoters
- Angiosperms-353
- Compositae-1061



Animal

- UCEs
- Mitochondrial



Human

- Human Affinities
- Onconome
- Whole Genome
- Mitochondrial

myBaits Custom – Efficient Sequencing for Any Organism

myBaits Custom kits can support any NGS project benefiting from hybridization capture, including high-sensitivity applications such as degraded or rare targets. All kits include probe design assistance from our experts.

	DNA-Seq	RNA-Seq	Methyl-Seq
Purpose	For enriching NGS libraries built from DNA	For enriching NGS libraries built from RNA/cDNA	For enriching NGS libraries built from bisulfite- or enzymatic-converted DNA
Research Type	Gene or exon resequencing, novel variant discovery, phylogenetics, transgene detection, and more	Gene expression profiling, rare transcription detection, viral genomics, and more	Epigenetic methylation sequencing
Sample Types	Genomic, metagenomic, microbial, environmental, ancient, or museum DNA, FFPE samples, cfDNA, and more	Transcriptomic, metagenomic, microbial, environmental, human, plant, animal, bacteria, or degraded RNA, and more	Bisulfite- or enzymatic-converted DNA for methylation sequencing



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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Targeted Sequencing Kits
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