



myBaits®



Target Capture Kits for NGS

OVERVIEW

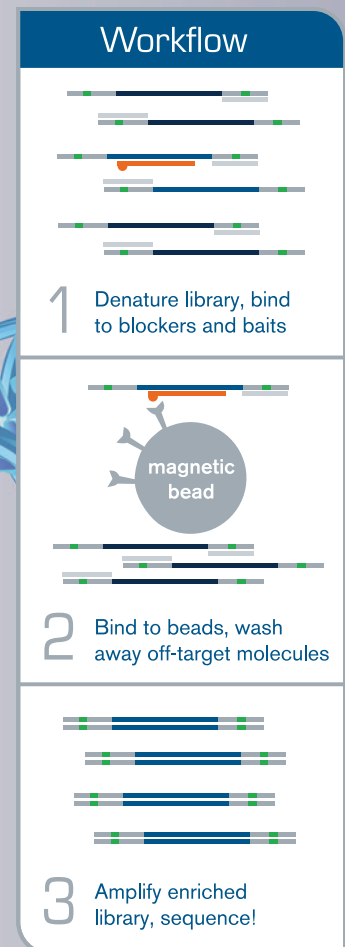
myBaits® target capture kits provide rapid, selective enrichment of genomic regions for highly cost-effective next-generation sequencing (NGS) on any platform, including Illumina®, Ion Torrent®, PacBio®, and Nanopore®. The proprietary oligo synthesis technology from Arbor Biosciences, delivers in-solution high-quality, complex baitsets at extremely competitive pricing. In addition, we are proud to offer complimentary bait design and project development assistance from a team of expert scientists.

FEATURES & BENEFITS

- Custom Kits** – Enrich for specific SNPs, exons, genes, and other sequence motifs
- Free Design Service** – Expertly curated probes for highly efficient sequencing
- Pre-designed Kits** – Ready for immediate shipment
- Open Platform** – Compatible with any NGS library preparation system
- Simple Protocol** – Perfect for new or expert NGS users
- Complete Solution** – Convenient kits include hybridization & wash reagents

APPLICATIONS

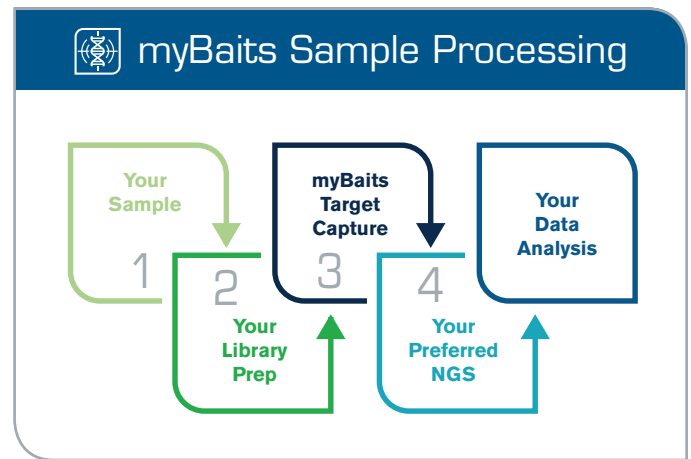
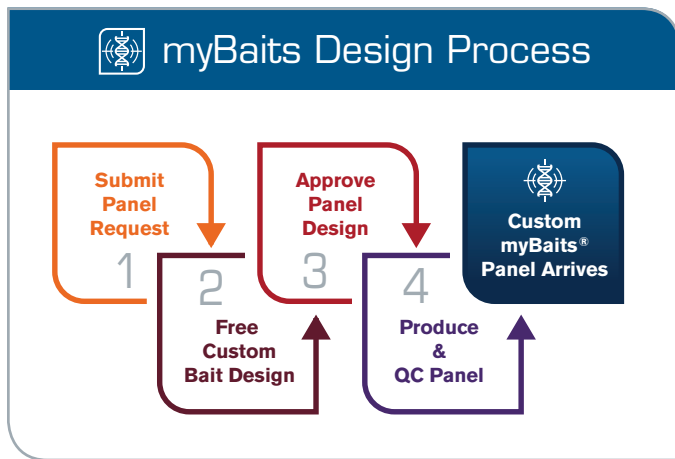
- Agrigenomics
- High-throughput Genotyping
- Phylogenetics
- Exon Sequencing
- Variant Discovery
- Ancient DNA / Paleogenetics



myBaits Custom

myBaits® Custom kits provide focused NGS hybridization capture panels for any organism or project size. Customer selected probes 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.

Easily assess any type of genetic feature appropriate for NGS, such as point mutations, copy number variation (CNV), small and large indels, and more. In addition, target 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 target capture kits are compatible with all major NGS platforms (Illumina®, Ion Torrent®, PacBio®, and Nanopore®), and the same bait set can be used for both short and long-read sequencing.



FEATURES & BENEFITS

Easy Design – Design probes from any nucleic acid source – genomes, transcripts, SNPs

Scientific Expertise – Free bait and project design assistance from a team of experts

Scalable – Panel and kit sizes available for any size project

Affordable – Competitive pricing for personalized baitsets

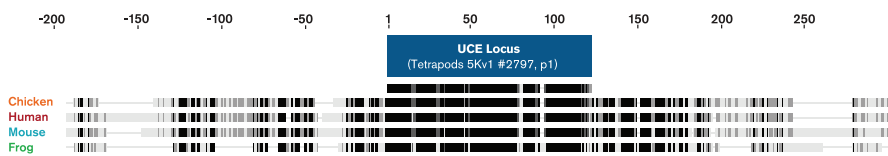
Convenient Kits – Each order includes probes and hybridization/washing reagents

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

Cat. No.	Description	Reactions	Price
300116	Designs with 1-20K baits (~1Mb)	16	\$3,600
300148	Designs with 1-20K baits (~1Mb)	48	\$5,990
300516	Designs with 80-100K baits (~5Mb)	16	\$8,600
300548	Designs with 80-100K baits (~5Mb)	48	\$11,990
301016	Designs with 180-200K baits (~10Mb)	16	\$16,100
301048	Designs with 180-200K baits (~10Mb)	48	\$19,490

myBaits UCE

Ultraconserved Elements (UCEs) are highly conserved genomic regions which are flanked by more divergent sequences. These key areas have been identified and exploited as ideal target capture candidates for phylogenetic research on novel and non-model species, as many genomic regions are shared across large taxonomic ranges. Arbor Biosciences provides sets of UCE baits identified for various taxonomic groups, including vertebrates and insects, and similar Conserved Orthologous Set (COS) loci identified in plants.



Alignment of a Tetrapod 5K UCE locus compared to top BLAST hit in chicken, human, mouse, and frog genomes. Individual bases are colored by degree of similarity (dark = high, light = low). Immediate genomic flanks are significantly more dissimilar than the central UCE region.

AVAILABLE PANELS

- Insect Hymenoptera 1.5Kv1, and 2.5K v2 (Principal & Ant-Specific)
- Tetrapods 5K v1 and 2.5K v1
- Ray-finned Fish (Actinopterygians) 0.5K v1
- Arachnida 1.1K v1
- COS Compositae/Asteraceae 1K v1
- Inquire about new panels

PRODUCT TABLE

Description	Reactions	Price
myBaits UCE kit	8	Starting at \$640
myBaits UCE kit	48	Starting at \$2,160
myBaits UCE kit	96	Starting at \$3,360

myBaits WGE

Whole Genome Enrichment (WGE) is target capture of genome-wide DNA from a complex DNA source. Arbor Biosciences' WGE bait manufacturing technology can cost-effectively produce biotinylated RNA baits representative of an entire nuclear genome. This allows for bulk enrichment of genome-wide endogenous DNA from complex metagenomic samples, such as environmental or ancient DNA. To manufacture custom WGE baits, all that is required is a sample of high-quality genomic DNA from an organism of interest, or a close relative, even if the genome has not been sequenced.

PRODUCT TABLE

Cat. No.	Description	Reactions	Price
302016	myBaits WGE Custom	16	\$1,680
302048	myBaits WGE Custom	48	\$4,560
302096	myBaits WGE Custom	96	\$8,160
302508	myBaits WGE Human	8	\$840
302548	myBaits WGE Human	48	\$4,560
302596	myBaits WGE Human	96	\$8,160

myBaits Mito

Mitochondrial DNA (mtDNA) sequencing is popular for phylogenetics, population genetics, species identification, and more. Due to high endogenous copy numbers of mtDNA in each cell, it provides a favorable recovery from a variety of sample sources. myBaits Mito panels from Arbor Biosciences are pre-designed with bait length, tiling density, and bait concentration appropriate for recovering full mtDNA sequences from any type of specimen, whether fresh, agricultural, environmental, forensic, ancient, or archival material. myBaits Mito panels are offered from a wide variety of organisms, including those highly relevant for archaeological or forensic research such as human, dog, horse, sheep, and many more.

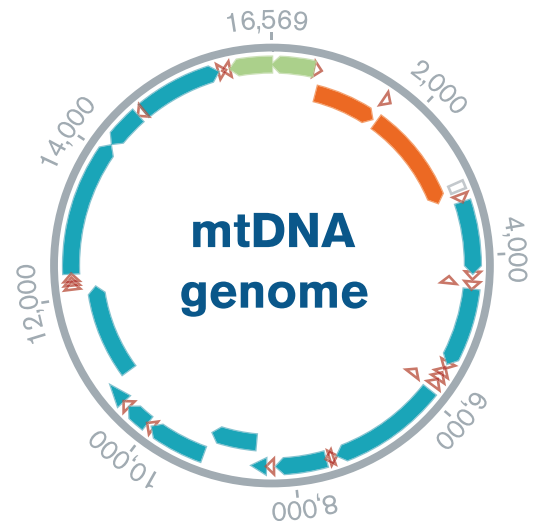
FEATURES & BENEFITS

Predesigned Panels – Optimized performance for immediate results

Simple Protocol – Perfect for new or expert NGS users

Wide Selection – Mix-and-match different panels for multispecies studies

Expandable – Combine with custom baits for additional flexibility



PRODUCT TABLE

Cat. No.	Description	Reactions	Price
303008	myBaits Mito kit	8	\$640
303048	myBaits Mito kit	48	\$2,160
303096	myBaits Mito kit	96	\$3,360



myBaits kits can greatly enhance the efficiency and cost-effectiveness 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 scientists today regarding your next project, and join a community of researchers in adopting one of the most versatile and fastest-growing technologies in genetics research.



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Targeted Sequencing Kits

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