PRODUCT SHEET

myBaits® Custom RNA-Seq

Customized NGS Target Capture Kits for RNA Samples

OVERVIEW

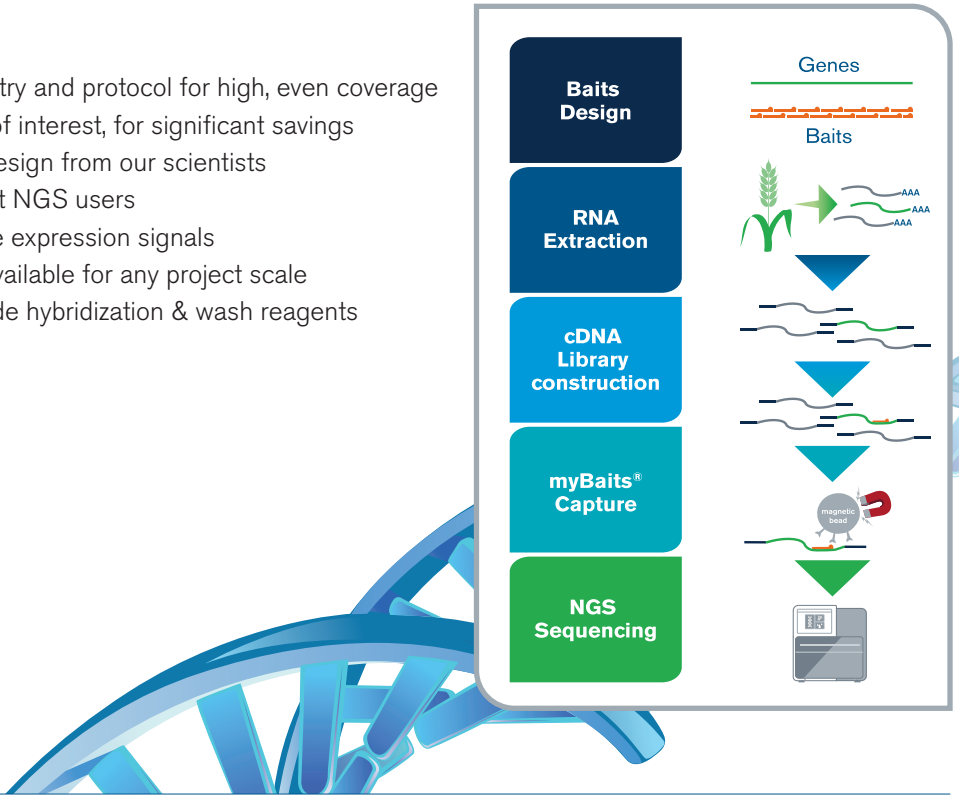
myBaits Custom RNA-Seq hybridization capture probes and reagents provide rapid, selective enrichment of target regions of interest from next-generation sequencing (NGS) libraries built from RNA samples. Total RNA sequencing is a powerful technique for directly assessing gene expression, but it is often costly to sequence samples to the depth needed to fully resolve signals especially from rare transcripts of interest (even with rRNA removal). myBaits Custom RNA-Seq hybridization capture kits from Daicel Arbor Biosciences provide customized in-solution probes for your genes of interest to "enrich" those targets from your RNA-Seq libraries. More importantly, myBaits Custom RNA-Seq probes preserve relative signals of essential transcript abundance and reduce per-sample NGS costs by orders of magnitude. Complimentary project development assistance and probe design from our scientific experts are included with the kit, making myBaits Custom RNA-Seq the right solution for your next targeted NGS project.

FEATURES & BENEFITS

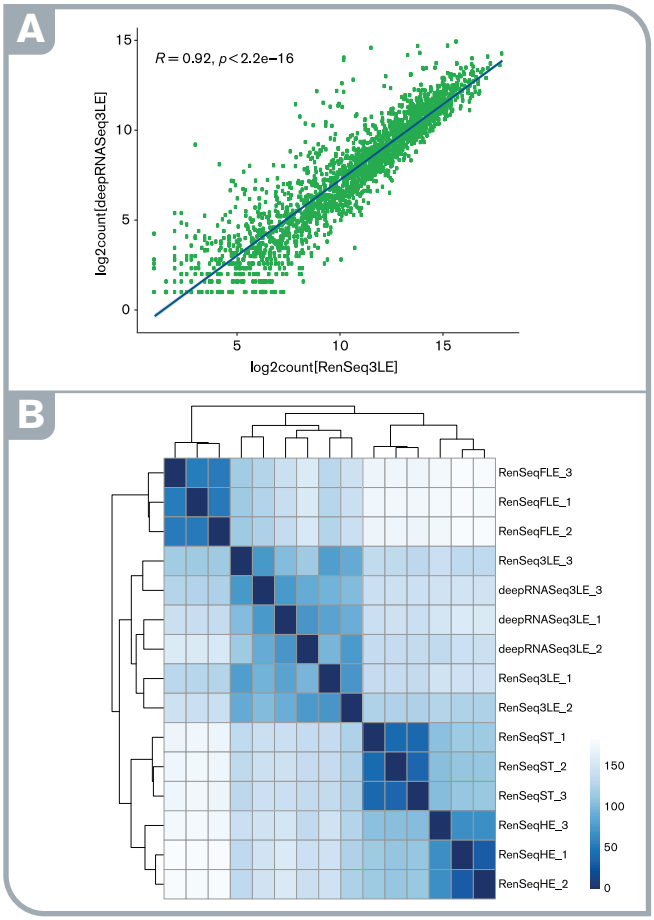
Superior Performance – Optimized chemistry and protocol for high, even coverage
High Efficiency – Focus your NGS on loci of interest, for significant savings
Free Design Service – Project and panel design from our scientists
Simple Protocol – Perfect for new or expert NGS users
High Reliability – Accurately measure gene expression signals
Scalability – Different panel and kit sizes available for any project scale
Complete Solution – Convenient kits include hybridization & wash reagents

APPLICATIONS

- Sensitive detection of rare transcripts
- Accurate gene expression studies
- Microbial transcription profiling
- Deep read coverage for RNA-Seq
- Alternative splicing analysis



Maximize Your Data Generation with Custom Capture Panels



With myBaits Custom RNA-Seq hybridization capture kits, it is easy to design a customized set of probes for just your loci of interest, which can then be used to "enrich" those targets from a complex NGS library prior to RNA-Seq. Your genes of interest can themselves be highly complex targets, as it is possible to target anywhere from dozens up to hundreds of thousands of different loci in a single myBaits Custom kit. For example, you can target all members of a certain gene family of interest, or all genes from a pathogen genome out of a complex host + pathogen RNA sample. Targeted RNA-Seq allows you to reduce per-sample sequencing costs by orders of magnitude while still preserving the essential gene expression signals necessary for downstream analyses.

Enrichment of RNA-Seq libraries with myBaits is accurate and reproducible. *(A) Comparing per-locus coverage shows a high correlation between enriched and total RNA-Seq libraries. (B) Hierarchical clustering of gene expression in different tissues*

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 RNA 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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