myReads® NGS Service Packages for Wheat

Targeted NGS Services with Comprehensive myBaits® Wheat Capture Panels

- Service packages include QC, fragmentation, library preparation, 8-plex myBaits captures, and 18 Gbp of PE150 sequencing per sample. Additional bioinformatic analysis services are available upon request.
- Library preparation performance commitment for samples meeting our guidelines (see NGS Service Policies for more information).
- Complimentary upfront QC report allows you to make decisions about samples before proceeding.
- All samples must be high molecular weight, high quality, and high mass (>1 μg DNA).
- These service packages can be used with either the "Regulatory Elements" or "Wheat Exome" myBaits panels, which have been demonstrated effective with hexaploid, tetraploid, and diploid wheat cultivars and related species such as barley and rye.

REGULATORY ELEMENTS

Sequencing of promoter and regulatory element regions in wheat.

- Utilizes the new myBaits Custom "Wheat Promoters" Community panel.
- Designed by research collaboration led by Dr. Jorge Dubcovsky (UC Davis).
- Targets ~168 Mb of known and predicted regulatory element associated regions from IWGSC RefSeq v1.0 genome.

WHOLE EXOME

Sequencing of all 'high confidence' annotated coding regions in wheat.

- Utilizes the established myBaits Expert Wheat Exome catalog panel.
- Targets >200 Mb of coding regions corresponding to the IWGSC RefSeq v1.0 genome "high confidence" annotations.

Customized options available!