

Nurture Growth, Harvest Discoveries

Unveil the Complete Plant Transcriptome with RiboCop

Enhancing Plant Transcriptomics

Get the best sequencing results with convenient end-to-end RNA-Seq workflows!

Plant total RNA is comprised of large amounts of undesired ribosomal RNA (rRNA) which accounts for up to ~97 % of all transcripts. Lexogen's RiboCop rRNA Depletion Kits for Plants **remove undesired cytoplasmic (5.8S, 18S and 25S), mitochondrial (5S, 18S and 26S) and plastid (4.5S, 5S, 16S and 23S) rRNA** from intact as well as degraded input RNA. Ribodepletion thus affords an unbiased view of the transcriptome, including non-coding and non-polyadenylated transcripts.

Preserve RNA Integrity with Fragmentation-free rRNA Removal using RiboCop

RiboCop uses a set of affinity probes designed for specific and efficient depletion of rRNA sequences from intact as well as degraded input RNA. Lexogen's sophisticated probe design minimizes off-target effects that can distort NGS data.

Input amounts as low as 1 ng and up to 1 µg total RNA are applicable. No enzymatic reactions or mechanical shearing steps are involved, **preserving full-length transcripts intact for downstream processing**. RiboCop for Plants is ideally suited for Next Generation Sequencing (NGS) approaches and seamlessly integrates into CORALL RNA-Seq library preparation (Fig. 1).

Broad Species Compatibility and Efficient Depletion

RiboCop enriches RNAs of interest across a **wide range of total RNA input amounts from 1 ng - 1 µg** by removing all subclasses of undesired rRNA, i.e., cytoplasmic, mitochondrial, and plastid rRNAs. Thereby, RiboCop enriches RNAs of interest across a range of different plant species and **is suitable for depletion of various crops including corn (*Zea mays*), soybean (*Glycine max*), and others** (Fig. 2).

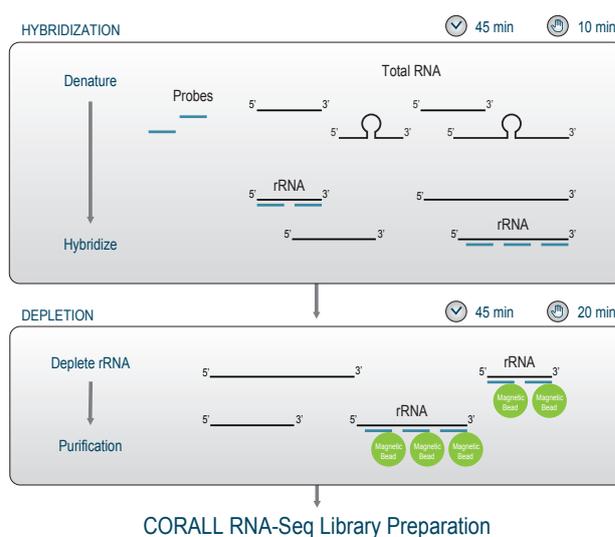


Figure 1 | RiboCop rRNA Depletion workflow.

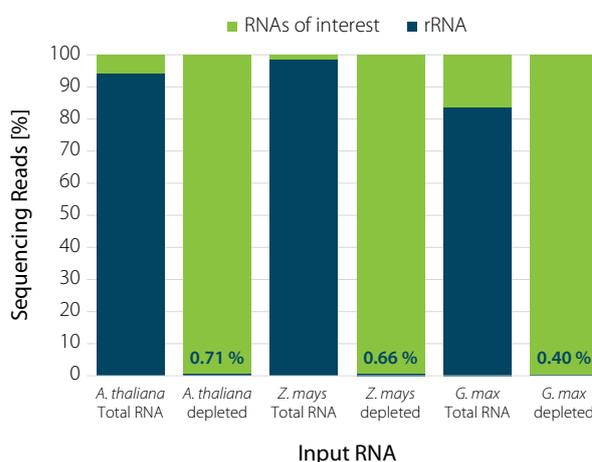


Figure 2 | RiboCop rRNA Depletion for Plants efficiently removes rRNA from *A. thaliana*, *Z. mays*, and *G. max*.

Key Benefits for Plant RNA-Seq with RiboCop



Unlock the full potential of low input and lowly concentrated samples - RiboCop supports a wide input range from **1 ng - 1 µg** total RNA.



Enzyme-free rRNA depletion preserves full-length RNA and is ideally suited for processing even degraded samples.



Simultaneous depletion of plant and microbe with convenient combinations of RiboCop for Plants and RiboCop Bacteria kits.

In Need for RNA-Seq Library Preparation?



Lexogen's RiboCop kits seamlessly integrate with CORALL RNA-Seq library preparation kits. The full workflow can be completed in under 6 hours: **from sample to sequencing-ready library in less than one day!**

Full NGS Services Available!



Lexogen NGS Services offers a variety of workflow options for plant transcriptomics, including expression profiling, isoform and non-coding RNA analysis, small RNA transcriptomics, and DNA sequencing. Simply send your samples and let our experts extract the best data possible for you.

End-to-end Workflow Solutions for Plant Transcriptomics

	RNA Extraction	RNA Preparation	NGS Library Prep	NGS Data Analysis
Expression Profiling	SPLIT RNA Extraction	<i>not needed!</i>	QuantSeq 3' mRNA-Seq	Kangaroo Data Analysis
Whole Transcriptome	SPLIT RNA Extraction	RiboCop for Plants	CORALL RNA-Seq	Kangaroo Data Analysis
Small RNA-Seq	TraPR sRNA Isolation	<i>not needed!</i>	Small RNA-Seq	Custom Bioinformatics
Plant-Microbe	SPLIT RNA Extraction	RiboCop for Plants / RiboCop META	CORALL RNA-Seq	Custom Bioinformatics
Long-read Seq	SPLIT RNA Extraction	TeloPrime full-length cDNA + library conversion		Custom Bioinformatics
RNA- and DNA-Seq	Lexogen NGS Services			

Meet the Family! RiboCop rRNA Depletion is Available for a Wide Variety of Species

RiboCop rRNA Depletion Kits are available for a wide range of species, including human, mouse, rat, bacteria (G+, G-, META), yeast, and plants. The different RiboCop mixes can be easily combined for full flexibility and efficient simultaneous multi-species depletion.



RiboCop rRNA Depletion Kits - Find Your Match!

Cat. Nº	Product Name
rRNA and Globin Depletion for Human/Mouse/Rat	
144	RiboCop rRNA Depletion Kits for Human/Mouse/Rat
145	RiboCop rRNA Depletion Kits for Human/Mouse/Rat Plus Globin
rRNA Depletion for Bacteria	
125	RiboCop rRNA Depletion Kits for Mixed Bacterial Samples (META)
126	RiboCop rRNA Depletion Kits for Gram Negative Bacteria (G-)
127	RiboCop rRNA Depletion Kits for Gram Positive Bacteria (G+)
rRNA Depletion for Yeast and Fungi	
190	RiboCop rRNA Depletion Kits for Yeast
rRNA Depletion for Plants	
237	RiboCop rRNA Depletion Kits for Plants
rRNA Depletion for Fish	
241	RiboCop rRNA Depletion Kits for Fish

Associated Products to complete your RNA-Seq workflow:

125	RiboCop rRNA Depletion Kits for Mixed Bacterial Samples (META)
171 and 175	CORALL RNA-Seq Library Prep Kits with UDI 12 nt Set A1 (171) and Set B1 (175)
208	PCR and Reamplification Add-on V2
008	SPLIT RNA Extraction Kits

For more information and additional resources, please visit our [website](#).

