

riboPOOLS

Fast, enzyme free, rRNA depletion for **any species** using optimized biotinylated probes that remove unwanted rRNA from total RNA for clearer RNA-seq and ribosome profiling results

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Single Species riboPOOLS

I Total RNA-Seq (intact RNA)

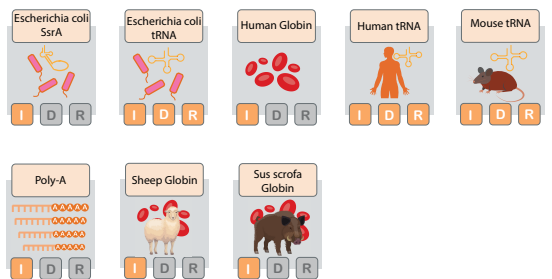
D Total RNA-Seq (intact/degraded RNA)

R Ribosome Profiling (Ribo-Seq)

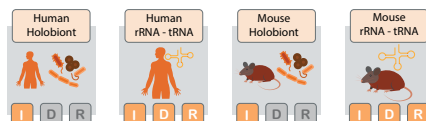


Multiple Species riboPOOLS

Additional Depletion Modules



Combination riboPOOLS



You don't see what you are looking for?

Contact us at info@sitools.de to enquire about:

- **Custom combinations:** combine up to 4 of any probe set.
- **Custom riboPOOLS:** design of novel depletion probes for your species of interest.

riboPOOL Depletion Workflow

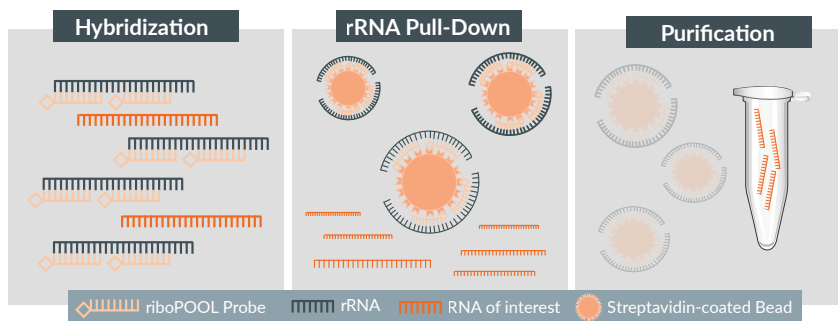


Fig. 1 Schematic overview of the riboPOOL rRNA depletion workflow.

Beads vs Ethanol Precipitation

Beads

- Fast and high throughput.
- Enrich for RNA > 150 nt. Removes short unwated RNAs.

Ethanol Precipitation

- Recover both long and short RNAs.
- Elution in smaller volumes.

riboPOOL Performance (Total RNA-Seq)

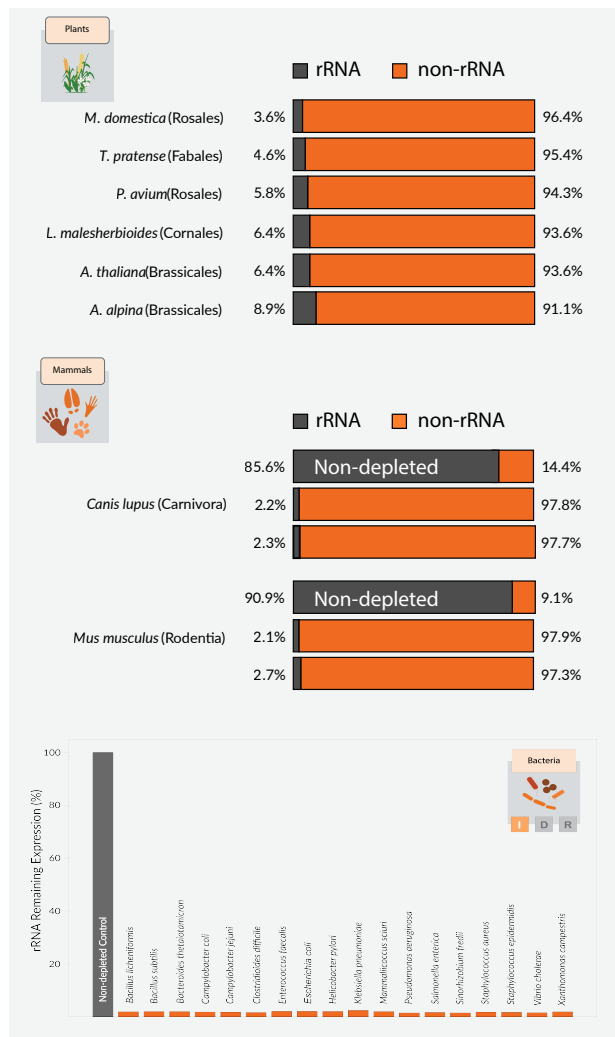


Fig. 2 Top) Residual rRNA percentage following ribodepletion of total RNA from various plant species using the Pan-Plant riboPOOL. **Center)** rRNA percentage in mouse and dog total RNA samples, before and after ribodepletion with the Pan-Mammal riboPOOL. **Bottom)** Remaining rRNA expression in different bacterial species after ribodepletion with Pan-Bacteria riboPOOL. Data shown refers to relative percentage of reads mapping to target rRNAs compared to non-depleted samples.

riboPOOL Performance (Ribo-Seq)

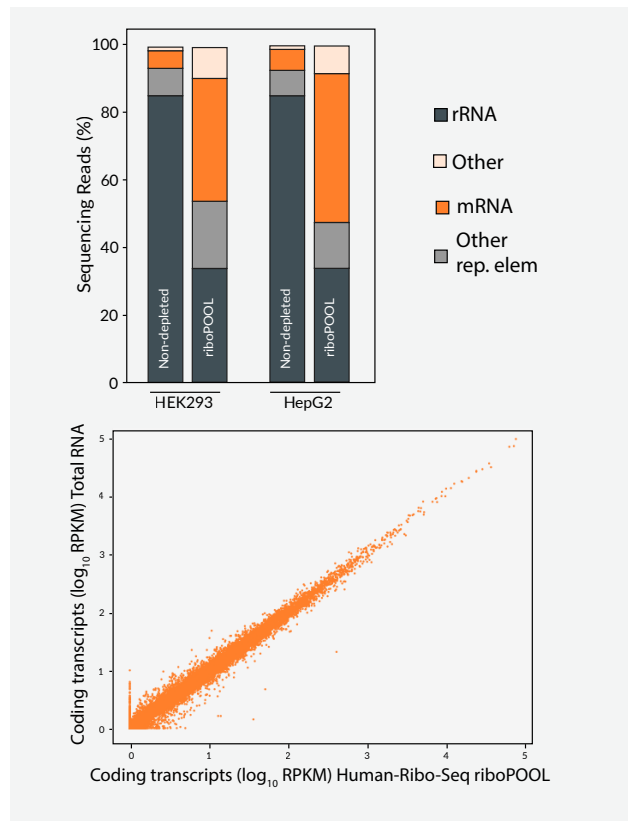


Fig. 3 Top) Percentage of reads mapping to different RNA categories in HEK293 and HepG2 samples without and with rRNA depletion with the Human Ribo-Seq riboPOOL. **Bottom)** Abundance (log₁₀ RPKM) of coding transcripts in non-depleted and rRNA depleted samples of HEK293 cells.

Free coverage assessment

Would you like to have more information on how well Pan-riboPOOL probes are expected to target the rRNAs of your species of interest?

Simply contact us at info@sitools.de

The riboPOOL Kit

Component	6 reaction kit (Trial)	12 reaction kit	24 reaction kit	96 reaction kit
● RiboPOOL (RP)	1x lyophilized powder	1x lyophilized powder	1x lyophilized powder	1x lyophilized powder
● Nuclease-free water (H ₂ O)	1 x 1 ml	1 x 1 ml	1 x 1 ml	1 x 1 ml
● Hybridization Buffer (HB)	1 x 1 ml	1 x 1 ml	1 x 1 ml	1 x 1 ml
● Depletion Buffer (DB)	1 x 8 ml	1 x 8 ml	1 x 8 ml	2 x 8 ml
● Streptavidin beads (SMB)	1 x 600 µl	1 x 1.2 ml	2 x 1.2 ml	8 x 1.2 ml
○ Linear Acrylamide (LA)	1 x 30 µl	1 x 30 µl	1 x 30 µl	1 x 110 µl
○ Sodium Acetate (SA)	1 x 300 µl	1 x 300 µl	1 x 300 µl	1 x 1.1 ml
● Cleanup Beads (CB)	1 x 1050 µl	1 x 2 ml	1 x 4 ml	1 x 16 ml

