

Better RNA-Seq for all species with **riboPOOLS** rRNA depletion kits

Improve and economize your RNA-Seq experiments by removing rRNAs

Why riboPOOLS?

ribosomal RNA (rRNA) accounts for 80-90% of the transcriptome limiting detection efficiency of desired RNAs (e.g. mRNAs) by RNA-Seq. The removal of rRNAs greatly improves and economizes RNA-Seq. **riboPOOLS** are highly complex pools of biotinylated DNA oligos, offering a flexible & efficient solution for selective and bias-free rRNA depletion in any RNA sample.

Any Species or abundant RNA

Some tissues express very high levels of certain RNAs. In blood, for instance, globin mRNA makes up 30-80% of total RNA. We offer **riboPOOLS** for abundant transcripts which can be combined with standard riboPOOLS for an efficient, one-step depletion of all abundant RNAs. riboPOOLS can be custom designed for any species and any abundant transcript. Furthermore, all riboPOOLS can be freely combined for any type of complex RNA sample.

Reproducible & Efficient rRNA Removal

riboPOOLS show high rRNA depletion efficacy across species, reaching up to 99%. For strongly degraded RNA samples we offer optimized riboPOOLS to achieve even & efficient rRNA removal of up to 95%. To meet the special requirements of ribosome profiling (Ribo-Seq) we develop dedicated **Ribo-Seq riboPOOLS** for a growing number of species. On top of excellent efficiency, in-house and customer data suggest excellent reproducibility between biological replicates.

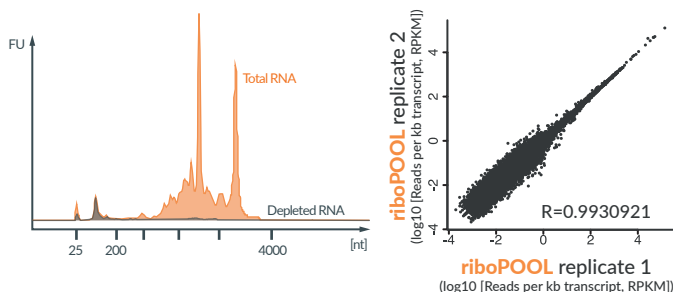


Figure 1: **Highly reproducible & efficient rRNA depletion with riboPOOLS.** Left: Agilent Bioanalyzer data demonstrating rRNA depletion with Pan-Archaea riboPOOL on *H. volcanii* total RNA. Sequencing revealed 97% depletion efficiency. Right: High reproducibility between biological replicates with human riboPOOL.

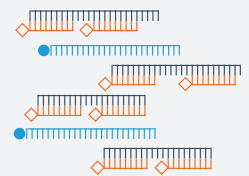
- ✓ Efficient & Reproducible RNA-Seq
- ✓ rRNA Depletion For Any Species Or RNA
- ✓ Easy & Fast rRNA Depletion Workflow

Simple & Fast Workflow

riboPOOLS' hybridization-based workflow allows fast & easy rRNA removal. The workflow follows three main steps:

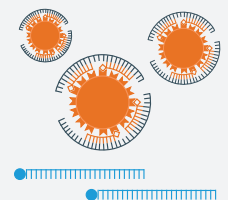
1 Hybridize probes

The riboPOOL biotinylated probes hybridize to target rRNAs.



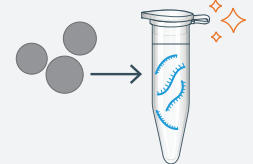
2 Pull-down

Target rRNAs are pulled-down via streptavidin-coated magnetic beads.



3 RNA Purification

Purification of rRNA-depleted samples with RNA clean-up beads.



Legend:  rRNA  RNA of interest  riboPOOL probes  Streptavidin beads  Clean-up beads

Available Formats:

1. Probes alone with nuclease-free water

12 rx Catalog-No. dp-P012	24 rx Catalog-No. dp-P024	96 rx Catalog-No. dp-P096
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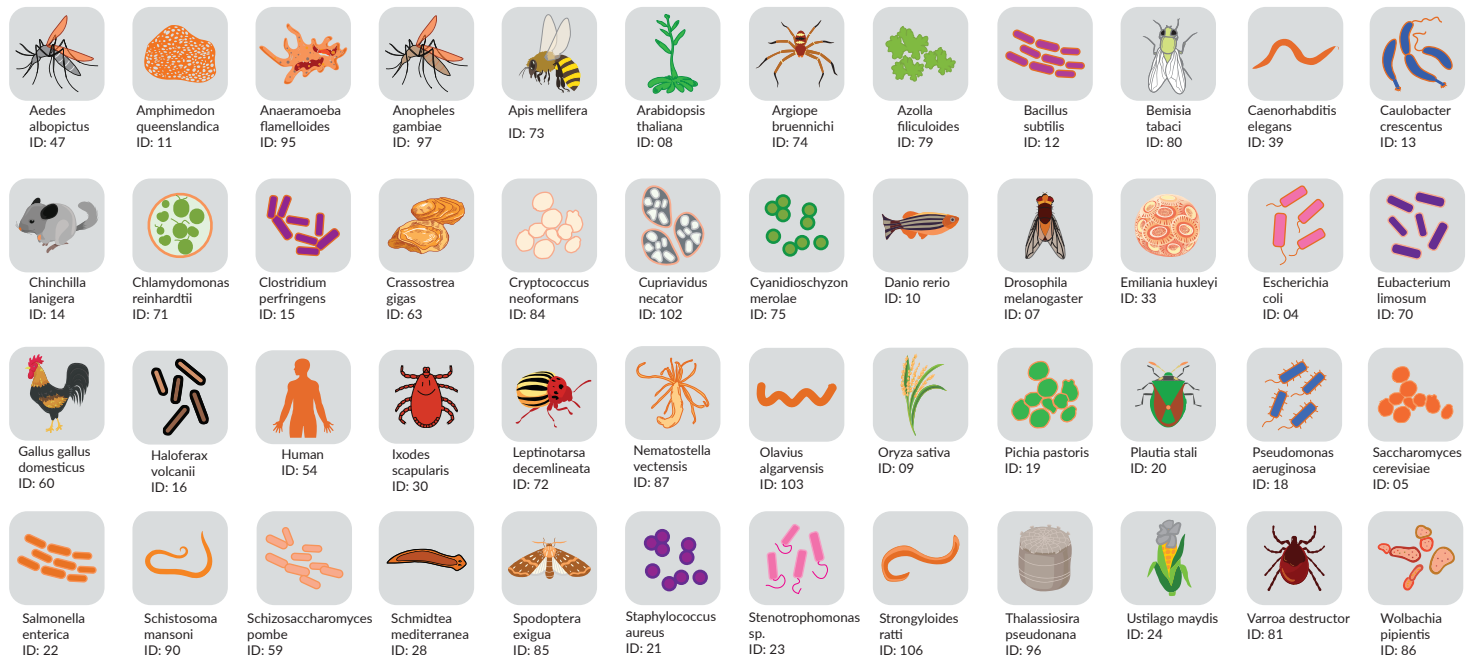
2. riboPOOL kits

(includes buffers, streptavidin-magnetic beads, reaction tubes and ethanol precipitation reagents)

6 rx Trial Catalog-No. dp-K006	12 rx Catalog-No. dp-K012	24 rx Catalog-No. dp-K024	96 rx Catalog-No. dp-K096
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riboPOOLS portfolio

Single Species riboPOOLS



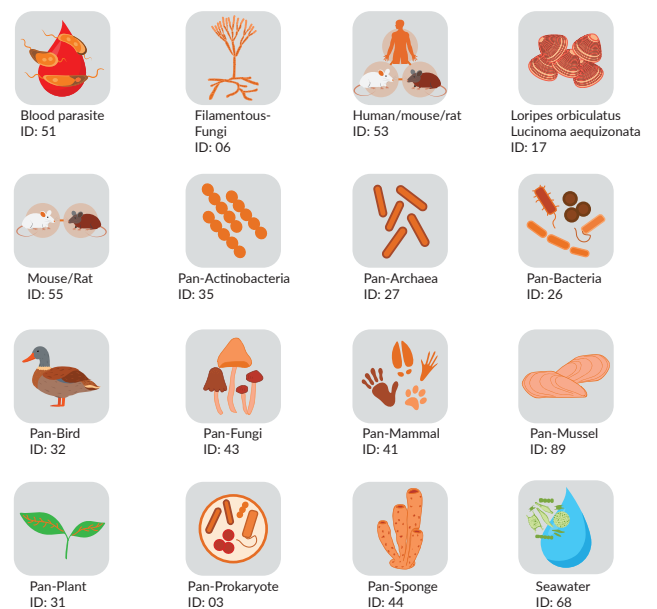
Special Applications riboPOOLS

Ribosome profiling & degraded RNA

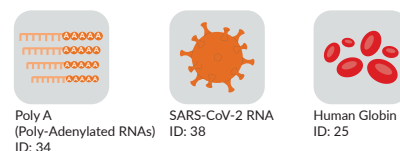


Pan-riboPOOLS

Multiple species



riboPOOLS for abundant RNAs



Custom riboPOOLS

If your species is not listed above, order a Custom riboPOOL with our one-time riboPOOL set-up service.

Contact us at info@siTOOLS.de or +49 (0) 89 12501 4800