



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.

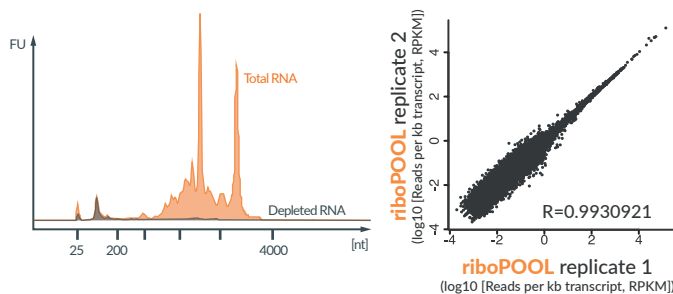


Figure 1: Highly reproducible & efficient rRNA depletion with riboPOOLS. Left: Agilent Bioanalyzer data demonstrating rRNA depletion with Pan-Archaea riboPOOL on *H. volcanii* total RNA. Sequencing revealed 97% depletion efficiency. Right: High reproducibility between biological replicates with human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

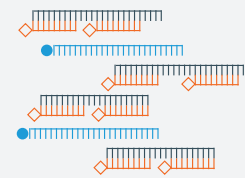
- ✓ Efficient & Reproducible RNA-Seq
- ✓ rRNA Depletion For Any Species Or RNA
- ✓ Easy & Fast rRNA Depletion Workflow

Simple & Fast Workflow

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

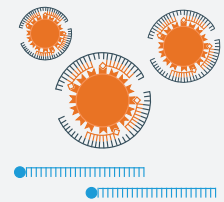
1 Hybridize probes

The riboPOOL biotinylated probes hybridize to target rRNAs.



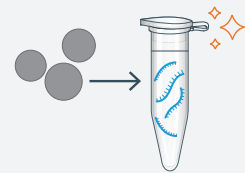
2 Pull-down

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

Aedes albopictus ID: 47	Amphimedon queenslandica ID: 11	Anaeramoeba flamelloides ID: 95	Anopheles gambiae ID: 97	Apis mellifera ID: 73	Arabidopsis thaliana ID: 08	Argiope bruennichi ID: 74	Azolla filiculoides ID: 79	Bacillus subtilis ID: 12	Bemisia tabaci ID: 80	Caenorhabditis elegans ID: 39	Caulobacter crescentus ID: 13
Chinchilla lanigera ID: 14	Chlamydomonas reinhardtii ID: 71	Clostridium perfringens ID: 15	Crassostrea gigas ID: 63	Cryptococcus neoformans ID: 84	Cupriavidus necator ID: 102	Cyanidioschyzon merolae ID: 75	Danio rerio ID: 10	Drosophila melanogaster ID: 07	Emiliania huxleyi ID: 33	Escherichia coli ID: 04	Eubacterium limosum ID: 70
Gallus gallus domesticus ID: 60	Haloflex volcanii ID: 16	Human ID: 54	Ixodes scapularis ID: 30	Leptinotarsa decemlineata ID: 72	Nematostella vectensis ID: 87	Olavius algarvensis ID: 103	Oryza sativa ID: 09	Pichia pastoris ID: 19	Plautia stali ID: 20	Pseudomonas aeruginosa ID: 18	Saccharomyces cerevisiae ID: 05
Salmonella enterica ID: 22	Schistosoma mansoni ID: 90	Schizosaccharomyces pombe ID: 59	Schmidtea mediterranea ID: 28	Spodoptera exigua ID: 85	Staphylococcus aureus ID: 21	Stenotrophomonas sp. ID: 23	Strongyloides ratti ID: 106	Thalassiosira pseudonana ID: 96	Ustilago maydis ID: 24	Varroa destructor ID: 81	Wolbachia pipientis ID: 86

Special Applications riboPOOLS

Ribosome profiling & degraded RNA

Acanthamoeba castellanii Ribo-Seq ID: 99	Arabidopsis thaliana Ribo-Seq ID: 105	Danio rerio Ribo-Seq ID: 101
Ectocarpus siliculosus Ribo-Seq ID: 100	Escherichia coli Ribo-Seq ID: 104	C. elegans Ribo-Seq ID: 67
D. melanogaster Ribo-Seq ID: 76	Equus caballus degraded RNA ID: 92	C. elegans degraded RNA ID: 62
D. melanogaster degraded RNA ID: 61	Felis catus degraded RNA ID: 93	Leishmania mexicana Ribo-Seq ID: 78
Human Ribo-Seq ID: 42	Human/Mouse/Rat Ribo-Seq ID: 50	S. cerevisiae Ribo-Seq ID: 49
Human degraded RNA ID: 57	Human/Mouse/Rat degraded RNA ID: 56	
Mouse/Rat Ribo-Seq ID: 52	Pristionchus pacificus Ribo-Seq ID: 82	
Mouse/Rat degraded RNA ID: 58	Trypanosoma brucei Ribo-Seq ID: 77	
Toxoplasma gondii Ribo-Seq ID: 83		

Pan-riboPOOLS

Multiple species

Blood parasite ID: 51	Filamentous-Fungi ID: 06	Human/mouse/rat ID: 53	Loripes orbiculatus Lucinoma aequizonata ID: 17
Mouse/Rat ID: 55	Pan-Actinobacteria ID: 35	Pan-Archaea ID: 27	Pan-Bacteria ID: 26
Pan-Bird ID: 32	Pan-Fungi ID: 43	Pan-Mammal ID: 41	Pan-Mussel ID: 89
Pan-Plant ID: 31	Pan-Prokaryote ID: 03	Pan-Sponge ID: 44	Seawater ID: 68

riboPOOLS for abundant RNAs

Poly A (Poly-Adenylated RNAs) ID: 34	SARS-CoV-2 RNA ID: 38	Human Globin ID: 25
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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