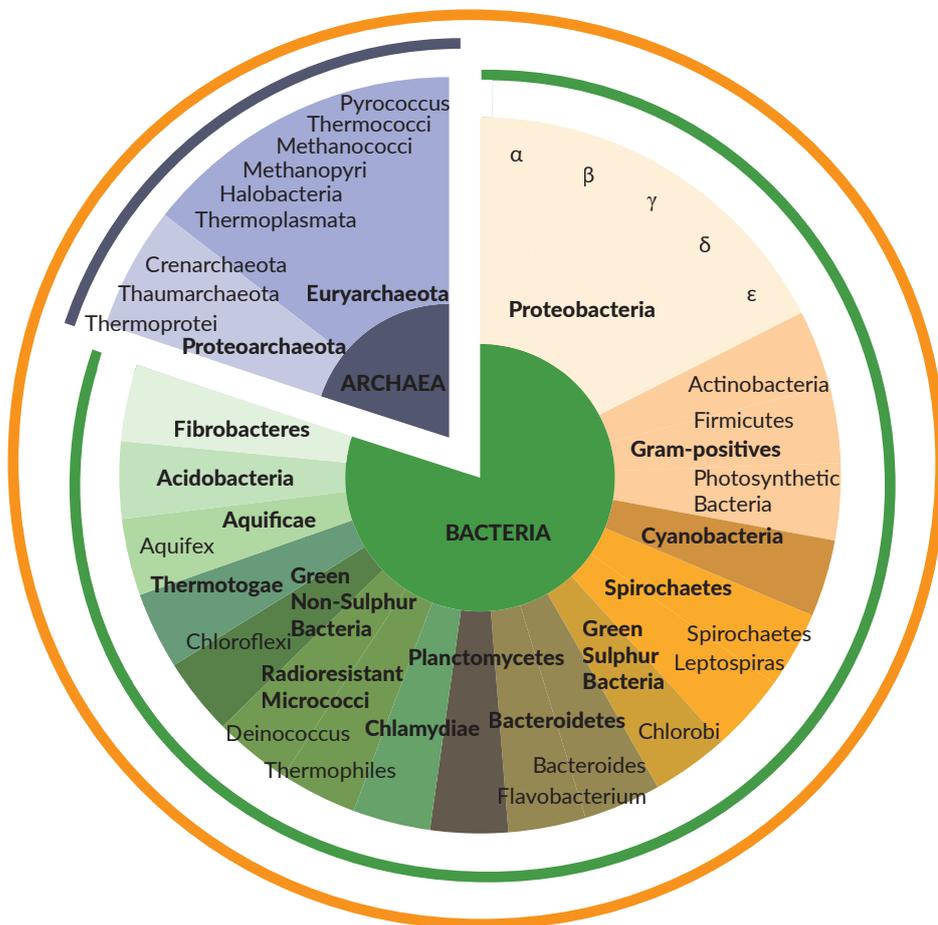


Better RNA-Seq for Microbes

Universal, Efficient rRNA Depletion with riboPOOLS Improve and economize microbial RNA-Seq experiments

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



Benefits

- ✓ Better performance for metatranscriptomics/ microbiome sequencing
- ✓ Applicable as Combination riboPOOL for mixed human & bacteria samples
- ✓ Optimal coverage of rRNA based on our Pack Hunter targeting approach
- ✓ Easy & fast workflow
- ✓ Wide RNA input range (10 ng - 3 µg)



Pan-Prokaryote riboPOOL

Wide species coverage for prokaryotes including Bacteria & Archaea



Pan-Bacteria riboPOOL

Optimal rRNA coverage of bacteria (gram positive and negative)



Pan-Archaea riboPOOL

Optimal rRNA coverage of archaea (Proteo- and Euryarchaeota)

Pan-Prokaryote riboPOOL, Pan-Bacteria riboPOOL and Pan-Archaea riboPOOL have been validated by RNA-Seq on many species:

Species Tested

Acetobacterium woodii
Acinetobacter baumannii
Bacteroides thetaiotaomicron
Bifidobacterium breve
Burkholderia glumae
Campylobacter jejuni
Clostridioides difficile
Clostridium saccharoperbutylacetonicum
Escherichia coli
Fusobacterium nucleatum
Helicobacter pylori
Janthinobacterium sp.
Methanocaldococcus jannaschii
Moorella thermoacetica
Mycobacterium tuberculosis
Pseudomonas aeruginosa
Pseudomonas putida
Pyrococcus furiosus
Salmonella typhimurium
Sinorhizobium fredii
Sporomusa ovata
Staphylococcus aureus
Streptococcus pneumoniae
Streptococcus pyogenes
Streptomyces coelicolor
Sulfolobus acidocaldarius
Sulfolobus solfataricus
Thermoanaerobacter kivui
Thermotoga maritima

riboPOOLS show high rRNA depletion efficacy across tested species (i.e. *Escherichia coli*, *Staphylococcus aureus*), reaching up to 99% rRNA depletion efficiency. rRNA depletion efficiency may vary across species, sample type and experimental conditions.

On top of excellent efficiency, in-house and customer data suggest superb reproducibility between biological replicates.

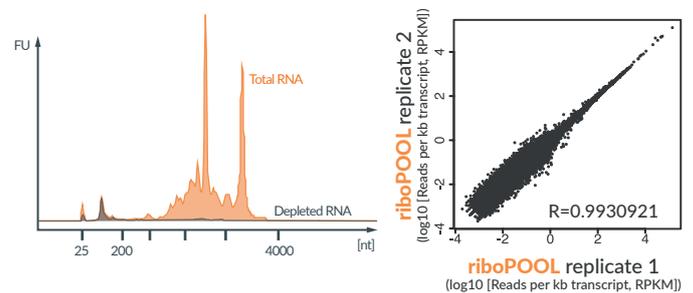


Figure 1: Highly reproducible & efficient rRNA depletion with riboPOOLS. Left: Agilent Bioanalyzer data demonstrating rRNA depletion with Pan-Archaea riboPOOL on *H. volcanii* total RNA. Sequencing revealed 97% depletion efficiency. Right: High reproducibility between biological replicates with human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

riboPOOL IDs:

Bacteria & Archaea	riboPOOL ID:
Pan-Prokaryote riboPOOL	003
Bacteria	
Pan-Bacteria riboPOOL <small>(Gram Positive & Gram negative Bacteria)</small>	026
Archaea	
Pan-Archaea riboPOOL	027

Available Formats:

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

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

- Probes alone with nuclease-free water

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

- siBeads

12 rx	24 rx	96 rx
Catalog-No. dp-M012	Catalog-No. dp-M024	Catalog-No. dp-M096