

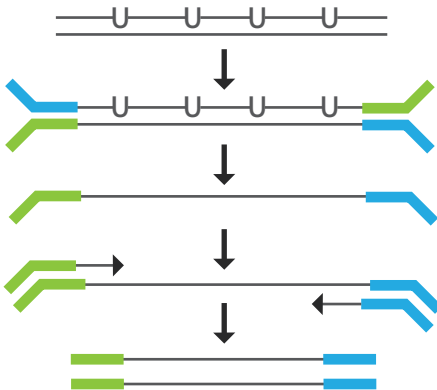
Prokaryotic mRNA Sequencing (NGS)

Product Introduction

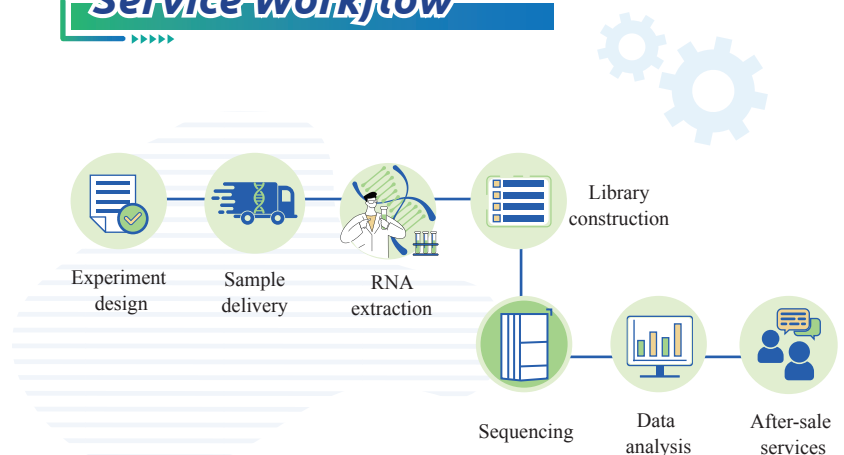
Prokaryotic RNA sequencing uses next-generation sequencing (NGS) to reveal the presence and quantity of RNA at a given moment, by analyzing the changing cellular transcriptome. Our prokaryotic RNA sequencing, specifically aims at prokaryotes with reference genomes, providing transcriptome profiling, gene structure analysis, etc. It has been widely applied to basic science research, drug research and development, and more.

Technical Features

Stranded library construction



Service Workflow



Bioinformation List

- Gene expression analysis;
- Differential expression analysis;
- Function annotation and enrichment analysis;
- sRNA prediction and annotation;
- Transcript structure analysis.



Service Advantages

- Dig deep into gene structure and SNP/InDel information to discover new genes or gene expression elements.
- The library was prepared by removing rRNA, and strand specific library was constructed.
- Nine interactive analysis modules, including advanced analysis, to realize the comprehensive analysis of transcriptome data.
- With the reference genome of the species, the prokaryotic transcriptome can be mined more accurately.
- After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results Q&A, etc.

Service Specifications

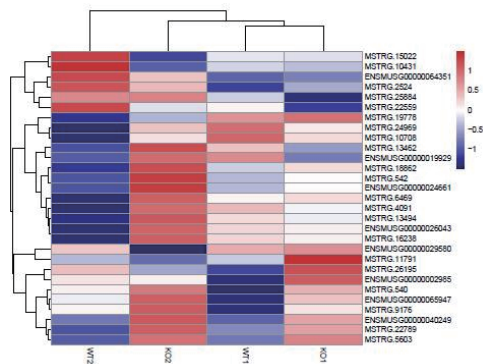
Library	Platform	Recommended data	Data QC	Time
rRNA depletion	Illumina PE150	2 Gb	Q30≥85%	37 days

Sample Requirements

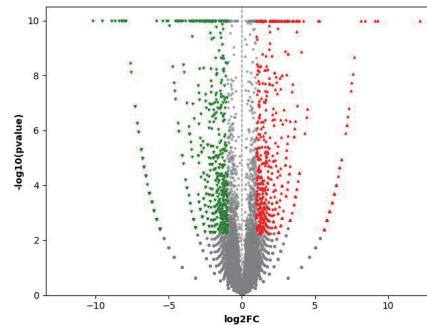
Amount	Purity	Integrity
Conc. ≥50 ng/μL; Volume ≥ 10 μL; Total ≥ 1 μg	OD260/280=1.7-2.5 OD260/230=0.5-2.5 Limited or no protein or DNA contamination shown on gel.	For plants: RIN≥6.0; For animals: RIN≥6.5; 5.0≥28S/18S≥1.0; limited or no baseline elevation

Demo Results

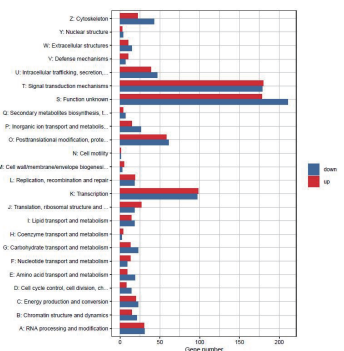
1. Sample expression heatmap



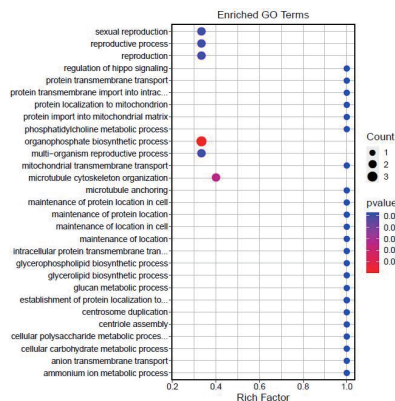
2. Differential expression analysis



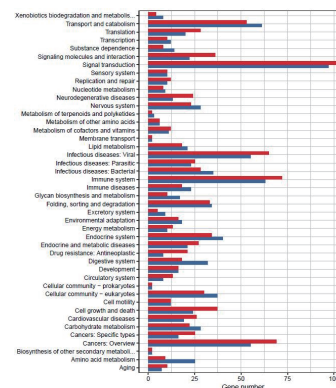
3. eggNOG annotation on DEGs



4. GO annotation on DEGs



5. KEGG annotation on DEGs



Biomarker Technologies (BMKGene) GmbH

BioZ, Johann-Krane Weg tech@bmkgene.com
 42, 48149 Münster, Germany www.bmkgene.com

Copyright©2009-2023 Biomarker Technologies (BMK) GmbH.
 All Rights Reserved. Information and specifications are subject
 to change at any time without notice.