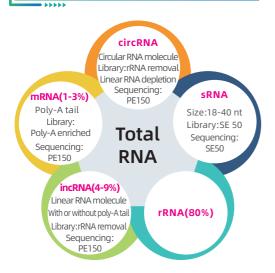


Whole Transcriptome Sequencing

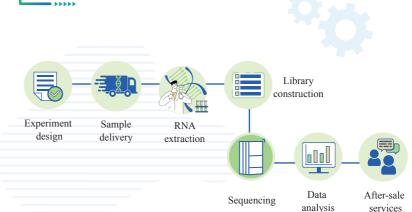
Product Introduction

Whole transcriptome sequencing is designed to profile all types of RNA molecules, including coding (mRNA) and non-coding RNAs (including lncRNA, circRNA, and miRNA) which are transcribed by specific cells at a certain time. Taking advantage of NGS technology, whole transcriptome sequencing aims to reveal comprehensive regulatory networks of circRNA-miRNA-mRNA based ceRNA and perform joint RNA analysis.

Technical Features · · · ·







Bioinformation,List.

- ▶ RNA expression overview;
- Differential expression overview;
- Co-expression analysis;
- Competing endogenous RNA(ceRNA) network;
- Integrated pathway analysis on key genes;
- Targeting relations between differential RNAs.

Service, Advantages....

- Estimation of all types of RNAs in terms of counts, expression, and chromosome -based relative expression.
- Identification of differentially expressed RNAs and corresponding expression.
- Gene co-expression analysis and ceRNA network analysis.
- BMKGENE has completed 2000+ whole transcriptome sequencing projects.
- ☼ After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results Q&A, etc.



Library	Platform	Recommended data	Data QC	Time
Total RNA	Illumina PE150&SE50	Circ/lnc/mRNA: 16G; miRNA: 10M reads	Q30≥85%	40 days

Sample Requirements

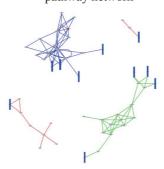
/	Amount	Qubit Conc. (ng/μL)	Integrity
	Conc. \geq 100 ng/ μ L; Volume \geq 10 μ L; Total \geq 1 μ g	OD260/280=1.7-2.5 OD260/230=0.5-2.5 Limited or no protein or DNA contamination shown on gel.	For plants: RIN≥6.5; For animals: RIN≥7.0; 5.0≥28S/18S≥1.0; limited or no baseline elevation

Demo Results

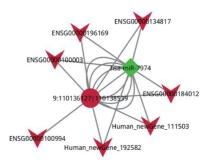
1. Estimation on all types of RNAs based relative expression



2. Integrated KEGG pathway network



3. ceRNA network analysis



Featured Publications

Year	Journal	Paper	Article	DOI
2023	Pharmacological Research	Targeting hnRNPC suppresses thyroid follicular epithelial cell apoptosis and necroptosis through m6A-modified ATF4 in autoimmune thyroid disease	Disease treatment	10.1016/j.phrs.2023.106933
2023	Aging	Whole-transcriptome sequencing analysis reveal mechanisms of Yiqi Huoxue Yangyin (YHY) decoction in ameliorating D-gal-induced cardiac aging	Disease treatment	10.18632/aging.204532
2022	Frontiers in Plant Science	Identification and validation of coding and non-coding RNAs involved in high-temperature-mediated seed dormancy in common wheat	Environmental adaptation	10.3389/fpls.2023.1107277

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