

Eukaryotic mRNA Sequencing (NGS)

Product-Introduction

BMKGENE has rich experience in eukaryotic mRNA sequencing projects, over 200,000 samples have been processed in BMKGENE covering diverse sample types, including cell culture, tissue, body fluid, etc. and over 10,000 mRNA -Seq projects closed covering various research areas, the number of samples processed annually is 10000+. BMKGENE has obtained 23 nationally authorized invention patents and more than 150 software Copyrights. More than 50 professional transcriptome project analysts escort your project.



<u>Service,Advantages ·····</u>

- P Reveal the differences and regulation of gene expression, and study the mechanisms of gene regulation and cell fate determination.
- Discover new genes and transcripts, which helps to reveal the integrity and complexity of the genome.
- **Strict quality control system:** Core quality control points through all steps including sample preparation, library preparation, sequencing and bioinformatics are under close monitoring in order to deliver high-quality results.
- Multiple databases available for function annotation and enrichment studies to fulfill diverse research goals.
- 3 After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results O&A, etc.

Service Specifications

| _ | **** |
|---|------|

| Library | Platform | Recommended data | Data QC | Time | |
|----------------|----------------|------------------|---------|---------|--|
| PolyA enriched | Illumina PE150 | 6 /10 /15 Gb | Q30≥85% | 30 days | |

Sample Requirements

| Amount | Purity | Integrity |
|---------------------------|--|----------------------------------|
| Cono >20 ng/uI · | 00260/280-1725 | For plants: RIN≥6.0; |
| Conc. 220 ng/µL, | 00200/280-1.7-2.5 | For animals: $RIN \ge 6.5$; |
| Volume $\geq 10 \ \mu L;$ | OD260/230=0.5-2.5 | 5.0>28S/18S>1.0: |
| Total $\geq 0.5 \ \mu g$ | Limited or no protein or DNA contamination shown on gel. | limited or no baseline elevation |

Demo Results



Differential expression analysis-Volcano plot



GO classification on DEGs



KEGG annotation on DEGs

Featured Publications

| Year | Journal | Article | Applications | DOI |
|------|----------------|---|--------------------------|--------------------------------|
| 2023 | Water Research | Triclosan and triclocarban weaken the olfactory capacity of goldfish by constraining odorant recognition, disrupting olfactory signal transduction, and disturbing olfactory information processing | Environmental adaptation | 10.1016/j.watres.2023.119736 |
| 2023 | Nano Today | A cascade nanoreactor for enhancing sonodynamic therapy on colorectal cancer via synergistic ROS augment and autophagy blockage | Disease treatment | 10.1016/j.nantod.2023.101798 |
| 2023 | Food Chemistry | HPLC-MS/MS-based and transcriptome analysis reveal the effects of ABA and MeJA on jujube (Ziziphus jujuba Mill.) cracking | Developmental regulation | 10.1016/j.foodchem.2023.136155 |

BMKGENE

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