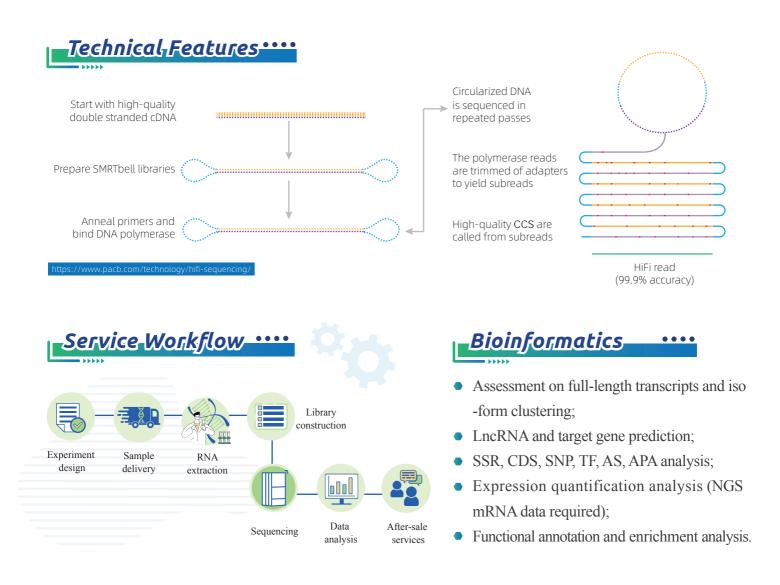


# Full-length Transcriptome Sequencing-PacBio

Harnessing the PacBio sequencer's long-read capability, BMKGENE sequences full-length cDNA molecules, eliminating errors in transcript assembly. Our service constructs unigene sets with isoform-level precision, serving as a robust "reference genome" at the isoform level. Joint with next-generation sequencing data, BMKGENE offers precise quantification of isoform-level expression.



### Service.Advantages ·····

- High accuracy: With PacBio circular consensus sequencing, the error rates have been greatly reduced, making it more reliable for accurate transcriptome analysis.
- > PacBio sequencing is particularly useful for isoform identification and characterization. It can accurately resolve transcript isoforms and identify alternative splicing events.
- Extensive experience: A total of 1000+ PB full-length transcriptome projects have been completed, with 2000+ completed samples. We have published articles with high-impact factors in NG, NC, PNAS, etc.
- PacBio "2+3" strategy for accurate isoform-level quantification.
- After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results Q&A, etc.

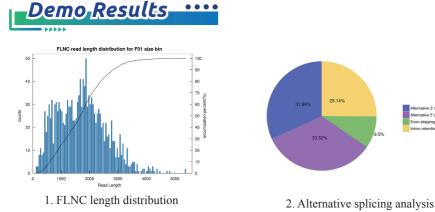
## Service Specifications

| **** |
|------|
|      |

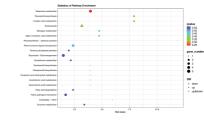
| Library                         | Platform         | Recommended Data |
|---------------------------------|------------------|------------------|
| PolyA enriched mRNA CCS library | PacBio sequel II | 20 /40 Gb        |

### Sample Requirements ····

| Amount (µg)   | Purity   | Integrity  |
|---|--|--|
| Conc. $\geq$ 120 ng/µL;<br>Volume $\geq$ 10 µL;<br>Total $\geq$ 0.75 µg | OD260/280=1.7-2.5<br>OD260/230=0.5-2.5<br>Limited or no protein or DNA contamination shown on gel. | For plants: $RIN \ge 7.5$ ;<br>For animals: $RIN \ge 8.0$ ;<br>$5.0 \ge 28S/18S \ge 1.0$ ;<br>limited or no baseline elevation |



### Featured Publications



3. KEGG pathway enrichment analysis

| Year | Journal  | Article  | Applications             | DOI                         |
|------|--|--|--------------------------|-----------------------------|
| 2023 | Genomics                                       | Comparative analysis of PacBio and ONT RNA sequencing methods for<br>Nemopilema Nomurai venom identification   | Technical comparison     | 10.1016/j.ygeno.2023.110709 |
| 2022 | International Journal<br>of Molecular Sciences | Dynamic changes in ascorbic acid content during fruit development<br>and ripening of actinidia latifolia (an ascorbate-rich fruit crop)<br>and the associated molecular mechanisms | Developmental regulation | 10.3390/ijms23105808        |
| 2022 | Communications<br>Biology                      | Effective prediction of biosynthetic pathway genes involved in bioactive polyphyllins in Paris polyphylla  | Synthetic biology        | 10.1038/s42003-022-03000-z  |

#### BMKGENE

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