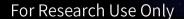






Nanopore Genetic Sequencer

Nano Gates to the Macro Cosmos



# Maximizing Your Research Potential

With flexible throughput options and exceptional capabilities such as **broad coverage**, **rapid sequencing**, and **flexible testing**, G100-ER meets the diverse needs across various applications, such as microbial genome research, microbial metagenome sequencing, amplicon-based microbial detection, targeted disease testing, small whole-genome assembly and whole transcriptome sequencing, etc.



**Broad Coverage** 



Rapid Sequencing



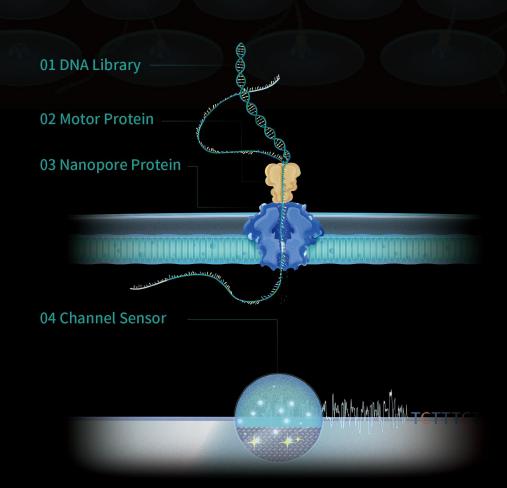
Flexible Testing



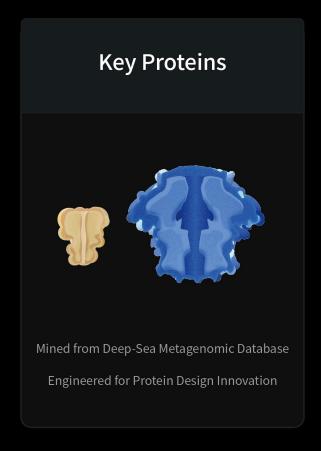
## The Key to the Genome's Treasures

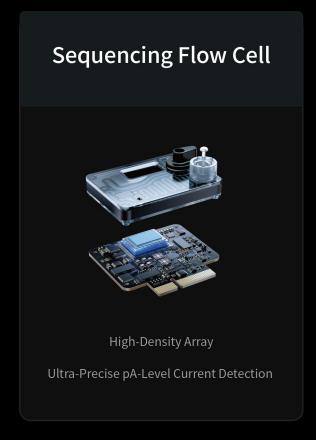
### **Sequencing Principle**

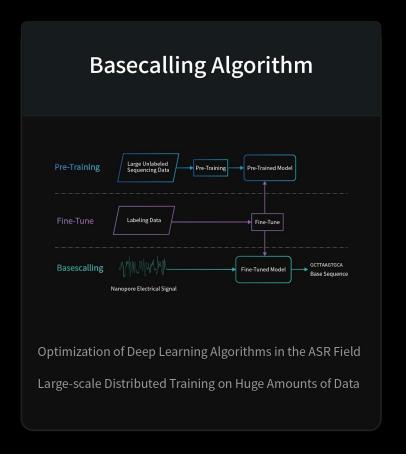
During the G100-ER sequencing process, the DNA library molecules linked to the motor protein are drawn to the vicinity of the nanopore protein embedded in the membrane under the influence of electric field forces, where they are captured by the nanopore protein. Meanwhile, motor proteins situated near the nanopore proteins entrance, steadily and rapidly unwinding the DNA. This allows the DNA libraries to pass through the nanopore as a single strand. Different DNA bases and their arrangement impede the current to varying degrees, triggering the current fluctuations. The channel sensor captures these current fluctuation data and transmits them to the computer system, where basecalling algorithms parse the information to achieve real-time and accurate gene sequencing.



# Tech Advances, Powering Ahead







Robust Stability, Powerful Capture, High Speed

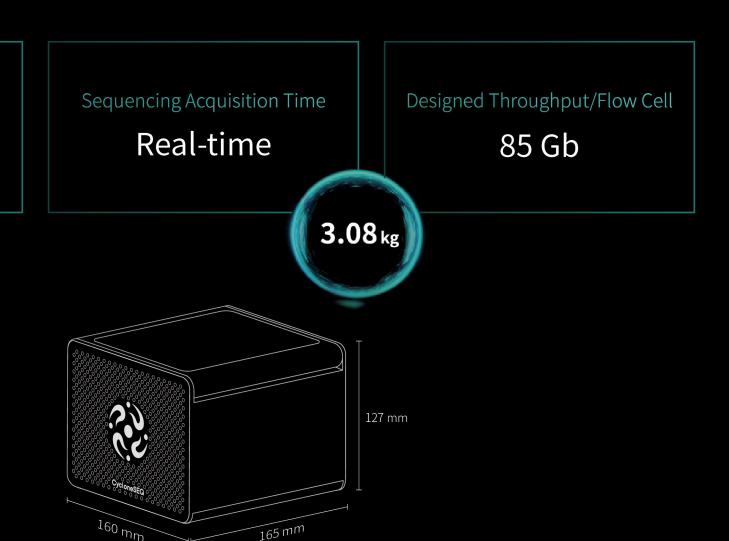
High Density, Low Noise, Durable Fuel Chemistry

Cutting-Edge, High Precision, High Performance

### **Performance Parameter**

Number of Nanopore Proteins

4096/Flow Cell



# **Diverse Applications**

G100-ER has broad application prospects and potential in the field of life sciences, empowering different application scenarios.



# **Ordering Information**

Product Name	Model	Specification	Cat. no
Nanopore Genetic Sequencer	G100-ER	CycloneSEQ (Sequencer)	H900-000048
Nanopore Genetic Sequencer Bundle 2	G100-ER	CycloneSEQ (Sequencer+Workstation+Keyboard & Mouse+Display Screen)	H910-000022
WT Sequencing Flow Cell	WT	2 pcs/set	H930-000002-00
CycloneSEQ WT Sequencing Kit	/	6 T	H940-000016
CycloneSEQ G100-ER Flow Cell Wash Kit	G100-ER-WK	6 T	H940-000098
CycloneSEQ Universal Library Prep Set	/	24 RXN	H940-000084
CycloneSEQ 24 Barcode Library Prep Set	/	4 RXN	H940-000081
CycloneSEQ 96 Barcode Library Prep Set	/	3 RXN	H940-000066
CycloneSEQ Barcode Sequencing Adaptor	/	4 RXN	H940-000087

### Manufacturer

### BGI Hangzhou CycloneSEQ Technology Co., Ltd.

No. 203 Zhenzhong Road, Xihu District, Hangzhou, Zhejiang Province, P. R. CHINA



Official website

### Distributor

### MGI Tech Co., Ltd.

Building 11, Beishan Industrial Zone, Yantian District, Shenzhen. CHINA 518083



Official website

Ø en.mgi-tech.com 
☐ MGI-service@mgi-tech.com 
⑤ 4000-688-114