BioSpectrum ASIA EDITION
the business of Bio & Health Sciences

MGI unveils ultra high speed gene sequencer in China

September 20, 2022 | News

DNBSEQ-G99 is available for order among Chinese users with more user partnerships in the horizon, unlocking new fields and diverse applications



China-based MGI Tech has launched DNBSEQ-G99, the latest model of the gene sequencerwith mid to low range throughput. As one of the sequencers with the fastest speed among those with the same throughput in the world, DNBSEQ-G99 is especially suitable for targeted gene sequencing and small genome sequencing, delivering rapid and high-quality data output.

Based on MGI's DNBSEQ core technology, DNBSEQ-G99 for the first time adopts triangular matrix signal spots on sequencing flow cell, reaching higher density of data output, with an overall throughput of 8-48 Gb per run.

In China, where DNBSEQ-G99 was first launched, a number of early users had already conducted trial runs which were met with excellent performance. This model will be available for reservation overseas starting early 2023.

As the ninth sequencer model launched by MGI, DNBSEQ-G99 continues to take the lead in innovation by focusing on three source core technologies. Through high-level integration of the fluid system and reagent optimization, the sequencing reaction incubation process takes merely seconds instead of minutes. In addition, equipped with triangular matrix high-density flow cell, self-developed high-performance optical equipment, and high-precision temperature control system, the output time of PE150 sequencing data has been shortened to within 12 hours. In particular, DNBSEQ-G99 is also equipped with a dual-flow cell sequencing platform which can finish running two rounds of the whole PE150 sequencing process in one day, largely improving the sequencing efficiency.