GeneMind

SURFSeq™ Q

Ultra-high Throughput Sequencing System

Sequencing Powerhouse: Unleash the Genetic Potential

This product is for Research Use Only (RUO). Not for use in diagnostic procedures.

SURFSeq 5000

Superb Data Output

- Ultra-high throughput: 14 Tb/Run
- Powerful productivity: 9 Tb/day, 20,000+ WGS (30 ×)/year

Ultra-high Data Quality

- Innovative sequencing chemistry+ AI based recognition algorithm
- Capable of producing ⩾ 90% of output bases with a Q40 score

User-friendly Design

- Automated individual lane loading for up to eight lanes per flow cell
- Allow customer to obtain data from different applications of the same sequencing run
- Support to resuming from the break-point to continue sequencing
- Post-run wash performed automatically after every sequencing run

Product Parameter

Flow Cell Type	Lane	Throughput [1] (Reads/FC)	Squencing Reagent Type	Read Length[1]	Output (FC ×2)	Data Quality [1]		TAT [2] (Hr)
						Q30	Q40	
FCM	4	11.7 B	50 cycles	SE50	0.6 Tb ×2	≥90%	≥90%	10
			100 cycles	SE100	1.2 Tb ×2			13
				PE50				
			200 cycles	PE100	2.3 Tb ×2			19
			300 cycles	PE150	3.5 Tb ×2			24
FCH	8	23.3 B	50 cycles	SE50	1.2 Tb ×2	≥90%	≥90%	17
			100 cycles	SE100	2.3 Tb ×2			22
				PE50				
			200 cycles	PE100	4.7 Tb ×2			29
			300 cycles	PE150	7 Tb ×2			36

1. This parameter is obtained based on the average of multiple test results of GeneMind P3 standard library. The data output and the proportion of high quality data are affected by factors such as sample type, sample quality and effective flow cell utilization. The actual performance may vary.
2. The sequencing time to complete the sample read length plus the paired-end index (8+8), includes the time from sample loading to base calling, and generating basefile.

Application [3]

Applications	Reads length	Data/sample	FCM	FCH
WGS	PE150	110 Gb	26	52
Single cell	PE150	120 Gb	24	48
ctDNA	PE150	50 Gb	48	96
WES	PE150	11 Gb	256	512

3 The above sample numbers for different applications are only for reference. Users need to adjust the sample numbers according to the actual experiment. ctDNA means 2.5 M panel.

Note: This document is based on company data of October, 2025, and is provided for reference only.
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This document does not constitute any offer, commitment, or warranty.

Ordering Information

Catalog NO.	Sequencer
SQ00063	SURFSeq Q Sequencing System Set
Catalog NO.	**Sequencing reagent kit**
S000379	SURFSeq Q Sequencing Reagent kit V1.0 (FCM 50cycles)
S000380	SURFSeq Q Sequencing Reagent kit V1.0 (FCM 100cycles)
S000381	SURFSeq Q Sequencing Reagent kit V1.0 (FCM 200cycles)
S000382	SURFSeq Q Sequencing Reagent kit V1.0 (FCM 300cycles)
S000383	SURFSeq Q Sequencing Reagent kit V1.0 (FCH 50cycles)
S000384	SURFSeq Q Sequencing Reagent kit V1.0 (FCH 100cycles)
S000385	SURFSeq Q Sequencing Reagent kit V1.0 (FCH 200cycles)
S000386	SURFSeq Q Sequencing Reagent kit V1.0 (FCH 300cycles)

System Specification

Dimensions (W ×D × H)	975 mm × 921 mm × 1570 mm
Net Weight	＜ 500 kg
Power	＜ 6000 W
Power Requirements	200-240 V~, 50/60 Hz
Operating Environment	Temperature: 19°C-25°C Realvtive humidity: 20%-80% (non-condensing) Altitude：below 2000 meter
Computer Configuration	CPU: Intel Xeon Gold 6326 ×2 Memory: 2 TB Solid-state drive：3.7 TB Hard disk drive：76.3 TB Operating system：Windows 10 ×64

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