

HiFi sequencing applications

Gain comprehensive views of genomes, transcriptomes, and epigenomes.



Whole genome sequencing

Sequence and assemble complete, reference-quality genomes and phase haplotypes



Variant detection

Call all variants — single nucleotide, indel, and structural variants — with high precision and recall



RNA sequencing

Characterize isoforms with direct sequencing of full-length transcripts — no assembly required



Targeted sequencing

Focus on variation in even the most difficult regions of the genome



Metagenomics

Resolve closely related sequences within a heterogeneous mixture



Epigenetics

Directly detect DNA modifications during sequencing

READY TO GET STARTED WITH HIFI SEQUENCING?



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Parts
Sequel IIe system (101-986-400)
Nanobind CBB big DNA kit (NB-900-001-01)
SMRTbell prep kit 3.0 (102-182-700)
Binding kit 3.2 and cleanup beads (102-333-300)
Sequel II sequencing kit 2.0 (101-820-200)
SMRT cell 8M tray (101-389-001)



Instrument operating environment

Power requirements	208–240 VAC, 30A. UPS recommended
Operating temperature	19–25°C (66.2–77°F) ±2°C per hour
Humidity	20–80%, noncondensing
Ventilation	HVAC capacity of up to 13,956 BTU (4090 watts)
Nitrogen	50 psi (2,585 torr)
W×D×H	36.5 × 34 × 66 in (92.7 × 86.4 × 167.6 cm)
Weight	798 lb (362 kg)

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102-193-609 REV02 19APR2022

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