

# Global Long Read Sequencing Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G01882717C3FEN.html>

Date: February 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: G01882717C3FEN

## Abstracts

The global Long Read Sequencing market size is expected to reach \$ 4568 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

Long Read Sequencing (LRS) represents a paradigm shift in genomics, moving from reconstructing the genome like a puzzle to reading it in near-contiguous pieces. Unlike Short Read Sequencing (SRS), which fragments DNA into pieces 150-300 base pairs long (requiring complex computational assembly), LRS reads single molecules in lengths of 10,000 to over 1,000,000 base pairs.

### Market Drivers

#### 1. Structural Variant (SV) Resolution (Clinical Driver)

Context: Short reads detect SNPs (single nucleotide variants) well. They miss 50-70% of structural variants (deletions, insertions, inversions, duplications >50bp).

Clinical Implication: SVs are implicated in autism, schizophrenia, epilepsy, cancer, and developmental disorders.

Driver: LRS detects SVs directly. No inference. The variant is seen in the read alignment.

Market Signal: Major medical centers (Mayo Clinic, Rady Children's, Broad) transitioning rare disease diagnostics to LRS.

#### 2. Phasing & Haplotype Resolution (Mendelian Genetics)

The Problem: Humans are diploid. Short reads mix maternal and paternal alleles.

The Consequence: Cannot determine if two mutations are on the same chromosome (cis) or opposite (trans). Critical for recessive disease carrier status.

The Solution: Long reads span both variants. Native phasing.

Driver: Reproductive genetics. Carrier screening accuracy improvement.

This report studies the global Long Read Sequencing demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Long Read Sequencing, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Long Read Sequencing that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Long Read Sequencing total market, 2021-2032, (USD Million)

Global Long Read Sequencing total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Long Read Sequencing total market, key domestic companies, and share, (USD Million)

Global Long Read Sequencing revenue by player, revenue and market share 2021-2026, (USD Million)

Global Long Read Sequencing total market by Type, CAGR, 2021-2032, (USD Million)

Global Long Read Sequencing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Long Read Sequencing market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Oxford Nanopore Technologies, Pacific Biosciences of California, BaseClear B.V., Future Genomics Technologies, Garvan Institute of Medical Research, Genome Transcriptome Facility of Bordeaux, NextOmics, Takara Bio, Quantapore, Roche, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Long Read Sequencing market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

**Global Long Read Sequencing Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Long Read Sequencing Market, Segmentation by Type:**

Consumables

Instruments

Services

## Global Long Read Sequencing Market, Segmentation by Industry:

- Human Genetics and Biomedicine
- Microbiology and Infectious Disease
- Plant and Animal Sciences
- Functional Genomics and Transcriptomics
- Population and Evolutionary Genomics

## Global Long Read Sequencing Market, Segmentation by Technology:

- PacBio (Single Molecule Real-Time; SMRT Sequencing)
- Oxford Nanopore Technologies (ONT)
- Emerging and Hybrid Technologies

## Global Long Read Sequencing Market, Segmentation by Application:

- Academic Research
- Clinical Research
- Hospitals & Clinics
- Pharma & Biotech Entities
- Other

## Companies Profiled:

- Oxford Nanopore Technologies

Pacific Biosciences of California

BaseClear B.V.

Future Genomics Technologies

Garvan Institute of Medical Research

Genome Transcriptome Facility of Bordeaux

NextOmics

Takara Bio

Quantapore

Roche

MicrobesNG

Institute of Integrative Biology of the Cell

### **Key Questions Answered**

1. How big is the global Long Read Sequencing market?
2. What is the demand of the global Long Read Sequencing market?
3. What is the year over year growth of the global Long Read Sequencing market?
4. What is the total value of the global Long Read Sequencing market?
5. Who are the Major Players in the global Long Read Sequencing market?
6. What are the growth factors driving the market demand?

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