

# Resource Summary Report

Generated by [nidm-terms](#) on Aug 28, 2026

## PacBio: Sequel System

RRID:SCR\_017989

Type: Tool

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### Proper Citation

PacBio: Sequel System (RRID:SCR\_017989)

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### Resource Information

**URL:** <https://www.pacb.com/blog/introducing-the-sequel-system-the-scalable-platform-for-smrt-sequencing/>

**Proper Citation:** PacBio: Sequel System (RRID:SCR\_017989)

**Description:** Single Molecule, Real-Time sequencer by Pacific Biosciences. System provides higher throughput, more scalability, reduced footprint and lower sequencing project costs compared to PacBio RS II System, while maintaining benefits of SMRT technology. Ideal for projects such as generating high quality, whole genome de novo assemblies for larger genomes, such as human, plants, and animals. Provides characterization of wide variety of genomic variation types, including those in complex regions not accessible with short-read or synthetic long-range sequencing technologies, while simultaneously revealing epigenetic information.

**Synonyms:** PacBio Sequel™ System, Sequel System

**Resource Type:** instrument resource

**Keywords:** sequencing machine, hardware, high-throughput sequencing, instrument, equipment

**Availability:** Restricted

**Specification URL:** [https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR\\_017989.pdf](https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_017989.pdf)

**Resource Name:** PacBio: Sequel System

**Resource ID:** SCR\_017989

**Alternate URLs:** <https://www.pacb.com/wp-content/uploads/Operations-Guide-Sequel-II-and-Sequel-Ile-Systems.pdf>

**Record Creation Time:** 20220129T080338+0000

## Ratings and Alerts

No rating or validation information has been found for PacBio: Sequel System.

No alerts have been found for PacBio: Sequel System.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 28 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [nidm-terms](#) .

Márquez R, et al. (2025) A draft genome assembly for the dart-poison frog *Phyllobates terribilis*. GigaByte (Hong Kong, China), 2025, gigabyte157.

Rao WQ, et al. (2025) A Chromosome-level Genome Assembly of the Western Nose-Horned Viper (*Vipera ammodytes ammodytes*). Genome biology and evolution, 17(12).

Lu Y, et al. (2024) Whole-genome sequencing of the invasive golden apple snail *Pomacea canaliculata* from Asia reveals rapid expansion and adaptive evolution. GigaScience, 13.

Cai L, et al. (2024) The chromosome-scale genome of *Magnolia sinica* (Magnoliaceae) provides insights into the conservation of plant species with extremely small populations (PSESP). GigaScience, 13.

Herliana L, et al. (2023) A chromosome-level genome assembly of *Plantago ovata*. Scientific reports, 13(1), 1528.

Barros CP, et al. (2022) A new haplotype-resolved turkey genome to enable turkey genetics and genomics research. GigaScience, 12.

Mu X, et al. (2022) Identification of candidate sex-specific genomic regions in male and female Asian arowana genomes. GigaScience, 11.

Wang J, et al. (2022) Chromosome-level genome assembly of the Pacific geoduck *Panopea generosa* reveals major inter- and intrachromosomal rearrangements and substantial expansion of the copine gene family. GigaScience, 12.

Bernot JP, et al. (2022) Chromosome-level genome assembly, annotation, and phylogenomics of the gooseneck barnacle *Pollicipes pollicipes*. GigaScience, 11.

Lu X, et al. (2022) A high-quality assembled genome and its comparative analysis decode the adaptive molecular mechanism of the number one Chinese cotton variety CRI-12. GigaScience, 11.

Yang Y, et al. (2022) Chromosome-level genome assembly of the shuttles hopppfish, *Periophthalmus modestus*. *GigaScience*, 11(1).

Palmada-Flores M, et al. (2022) A high-quality, long-read genome assembly of the endangered ring-tailed lemur (*Lemur catta*). *GigaScience*, 11.

Liu P, et al. (2022) The assembled and annotated genome of the masked palm civet (*Paguma larvata*). *GigaScience*, 11.

He X, et al. (2022) The whole-genome assembly of an endangered Salicaceae species: *Chosenia arbutifolia* (Pall.) A. Skv. *GigaScience*, 11.

Saenko SV, et al. (2021) The draft genome sequence of the grove snail *Cepaea nemoralis*. *G3* (Bethesda, Md.), 11(2).

Hilsdorf AWS, et al. (2021) Genome assembly and annotation of the tambaqui (*Colossoma macropomum*): an emblematic fish of the Amazon River Basin. *GigaByte* (Hong Kong, China), 2021, gigabyte29.

Li J, et al. (2021) A new duck genome reveals conserved and convergently evolved chromosome architectures of birds and mammals. *GigaScience*, 10(1).

Jin S, et al. (2021) A chromosome-level genome assembly of the oriental river prawn, *Macrobrachium nipponense*. *GigaScience*, 10(1).

Sharma P, et al. (2021) Improvements in the sequencing and assembly of plant genomes. *GigaByte* (Hong Kong, China), 2021, gigabyte24.

Xu M, et al. (2021) Accurate haplotype-resolved assembly reveals the origin of structural variants for human trios. *Bioinformatics* (Oxford, England), 37(15), 2095.