

Walk-away sample prep built to scale PacBio sequencing

Volta's PacBio SMRTbell® 3.0 DNA Library Prep App offers an automated process of converting high molecular weight DNA into SMRTbell libraries, at a miniaturized reaction scale. The high-quality HiFi libraries the App produces can be used for *de novo* genome assembly, variant detection, and amplicon sequencing.

Benefits

- Get 5.5 hours of walk-away time for 24 samples
- Prep 2x more reactions from library prep kit
- Achieve the highest quality libraries with no prior experience preparing libraries



The Volta Labs Callisto Sample Prep System offers robust and versatile library preparation through preloaded apps for high-quality HiFi long-read sequencing.

App specifications

Input: **0.5 – 5 µg DNA**

Output: **HiFi libraries for Revio/Sequel IIe systems**

Hands-on time: **Less than 30 minutes**

Walk-away time: **5.5 hours**

Throughput: **Flexible, 4 – 24 rxns in a single run**

Compatibility: **PacBio SMRTbell Prep Kit 3.0 (102-182-700) with bead-based size selection**

Workflow steps

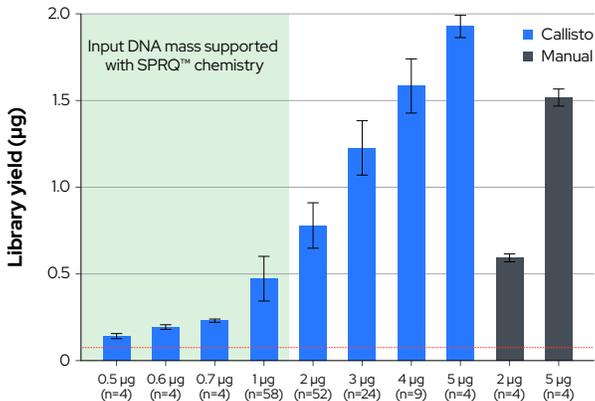


Walk-away processing on Callisto™

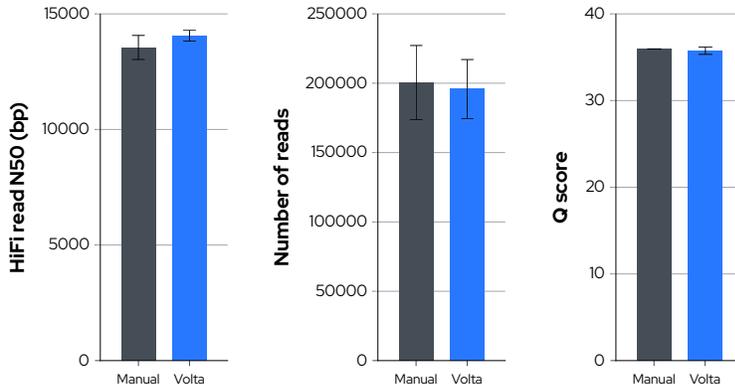


Consistent, high-quality sequencing metrics for PacBio libraries prepared on the Callisto™ Sample Prep System

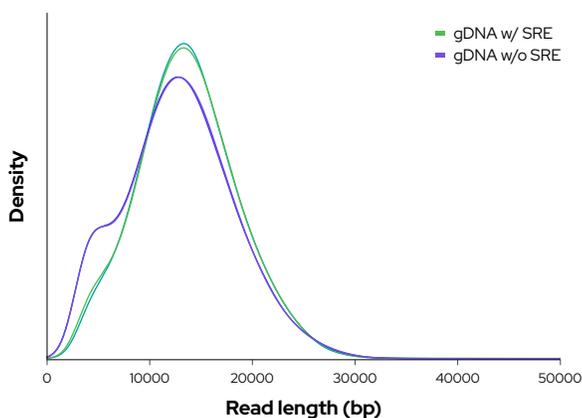
Miniaturized preps without compromising on performance



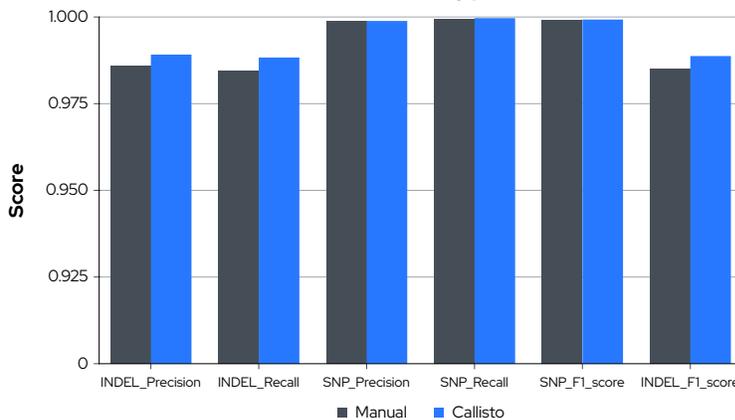
Consistent, high-quality HiFi sequencing on Revio



Robust size selection to eliminate short fragments



Robust variant calling performance



Sequencing and variant calling performance metrics for libraries prepared on Callisto and manually. Libraries were prepared from HG001. All samples were sheared using the Megaruptor 3. Variant calling performed with Google DeepVariant, and compared to hg38 NIST 4.2.1 using hap.py.

Ordering information

Part number	Product	Description
C0001	Callisto Sample Prep System	Sample prep instrument
LP0001	Callisto Kit for PacBio® SMRTbell® 3.0 DNA Library Prep – 48 rxns	Library prep consumables for 48 reactions

LP0001 does not include library prep reagents and should be purchased directly from PacBio.



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