

APPLICATION CONSUMABLE BUNDLES

Generate highly accurate long-read sequencing data you can trust

With this PacBio® application consumable purchasing guide, you can easily order the required consumables* for the Sequel® II and IIe systems. Simply choose your SMRT® sequencing application and with the single part number, place your order to get started.

| Application | Name and part number | Samples | Contents and quantities* |
|---|--|--|---|
| Whole genome sequencing | | | |
| Hifi reads for <i>de novo</i> assembly, structural variant, and variant detection | Sequel II HiFi bundle-18 2.0 PN: 102-104-700 | 18 | SMRTbell® express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) SMRTbell enzyme cleanup kit 2.0 (PN: 101-932-600 / Qty: 1) Sequencing primer v5 (PN:102-067-400 / Qty: 2) AMPure® PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.2 and internal control 1.0 (PN:102-089-000 / Qty: 1) |
| Hifi reads with ultra-low DNA input for <i>de novo</i> assembly and variant detection | Sequel II HiFi ultra-low DNA input-18 PN 101-989-100 | 18 | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 2) SMRTbell gDNA sample amplification kit (PN: 101-980-000 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |
| <i>De novo</i> assembly for low DNA input samples | Sequel II <i>de novo</i> low DNA input-18x2 PN: 101-900-200 | 36 (18 runs with two ~3 Gb samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 2) SMRTbell enzyme cleanup kit (PN: 101-746-400 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 3) Barcoded overhang adapter kit 8A (PN: 101-628-400 / Qty: 3) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |
| <i>De novo</i> assembly for microbial multiplexing | Sequel II microbial assembly bdl-48 PN: 101-900-000 | 48 | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 3) Elution buffer (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |

| Application | Name and part number | Samples | Contents and quantities* |
|---|---|--|---|
| RNA sequencing | | | |
| Iso-Seq® method for standard transcript profiling | Sequel II Iso-Seq express std bdlc-18 PN: 101-901-700 | 18 | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) Iso-Seq express oligo kit (PN: 101-737-500 / Qty: 1) Elution buffer (50 mL) (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.1 and internal control 1.0 (PN:101-843-000 / Qty: 1) |
| Iso-Seq method for long transcript profiling | Sequel II Iso-Seq express long bdlc-18 PN: 101-901-800 | 18 | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) Iso-Seq express oligo kit (PN: 101-737-500 / Qty: 1) Elution buffer (50 mL) (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |
| Targeted sequencing | | | |
| Amplicons for <3 kb with barcoded primers | Sequel II amplicon <3 kb brcd primr-18x384 PN: 101-901-000 | 18x384 (18 runs with 384 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.1 and internal control 1.0 (PN:101-843-000 / Qty: 1) |
| Amplicons for <3 kb with barcoded universal primers | Sequel II amplicon <3 kb brcd unv pr-18x96 PN: 101-901-100 | 18x96 (18 runs with 96 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Barcoded universal f/r primers plate -96 v2 (PN:101-629-100 / Qty: 18) Sequel II binding kit 2.1 and internal control 1.0 (PN:101-843-000 / Qty: 1) |
| Amplicons for <3 kb with barcoded adapters† | Sequel II amplicon <3 kb brcd adapt-96 PN: 101-901-200 | 1x96 (1 run with 96 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.1 and internal control 1.0 (PN:101-843-000 / Qty: 1) |
| Amplicons for >3 kb with barcoded primers | Sequel II amplicon >3 kb brcd primr-18x384 PN: 101-901-300 | 18x384 (18 runs with 384 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |
| Amplicons for >3 kb with barcoded universal primers | Sequel II amplicon >3 kb brcd unv pr-18x96 PN: 101-901-400 | 18x96 (18 runs with 96 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Barcoded universal f/r primers plate -96 v2 (PN:101-629-100 / Qty: 18) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |
| Amplicons for >3 kb with barcoded adapters† | Sequel II amplicon >3 kb brcd adapt-96 PN: 101-901-500 | 1x96 (1 run with 96 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1) |

| Application | Name and part number | Samples | Contents and quantities* |
|---------------------------------|--|---|--|
| No-amp targeted sequencing | Sequel II No-amp target seq bdle-2x20 PN: 101-902-200 | 2x20 (2 runs with 20 samples / run) | No-amp accessory Kit (PN 101-788-900 / Qty: 1) SMRTbell enzyme cleanup kit (PN: 101-746-400 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 3) Elution buffer (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN:101-842-900 / Qty: 1). |
| Complex populations | | | |
| Shotgun metagenomics assembly | Sequel II shotgun metagenomics bdle-18 PN: 101-900-400 | 18 | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) SMRTbell enzyme cleanup kit (PN: 101-746-400 / Qty: 1) Sequencing primer v2 (PN:101-847-900 / Qty: 2) AMPure PB beads (PN: 100-265-900 / Qty: 2) Elution buffer (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN: 101-842-900/ Qty: 1) |
| Shotgun metagenomics profiling | Sequel II shotgun metagenomic profiling-8x4 PN: 101-918-100 | 8x4 (8 runs with 4 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 2) SMRTbell enzyme cleanup kit (PN: 101-746-400 / Qty: 1) Sequencing primer v2 (PN:101-847-900 / Qty: 2) Barcoded overhang adapter kit 8A (PN: 101-628-400 / Qty: 2) AMPure PB beads (PN: 100-265-900 / Qty: 2) Elution buffer (PN: 101-633-500 / Qty: 1) Sequel II binding kit 2.0 and internal control 1.0 (PN: 101-842-900/ Qty: 1) |
| Full-length 16s rRNA sequencing | Sequel II 16S rRNA sequencing bdle-18x96 PN: 101-900-600 | 18x96 (18 runs with a 96 samples / run) | SMRTbell express template prep kit 2.0 (PN: 100-938-900 / Qty: 1) AMPure PB beads (PN: 100-265-900 / Qty: 1) Sequel II binding kit 2.1 and internal control 1.0 (PN:101-843-000 / Qty: 1) |

* Core SMRT sequencing consumables such as SMRT® Cell and sequencing kits and third party reagents are not included in the application bundles. For details and protocol recommendations, see the [application overview](#).

† For barcoded adapter bundles, PacBio recommends customers purchase barcoded adapters directly from an oligonucleotide manufacturing company. PacBio does offer a solution for multiplexing levels up to 16-plex in increments of 8 barcoded adapters [Barcoded overhang adapter kit 8A (PN: 101-628-400) and Barcoded overhang adapter kit 8B (PN: 101-628-500)]



Learn more about application-specific workflows:
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