Equipment and materials needed for sequencing

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Quick reference card

This Quick reference card lists examples of third-party laboratory equipment and other materials that are recommended for running specific types of SMRT sequencing applications on PacBio® Sequel® II, Sequel IIe and Revio systems. Note that although vendor part numbers are listed herein, they may not always be up to date. Verify and obtain the latest part numbers and relevant documentation from the specific vendor or manufacturer's website. For more detailed guidance regarding specific equipment recommendations, refer to the appropriate PacBio **Procedure & checklist**.

SMRT® sequencing application categories

Main application	Workflow	Procedure & checklist
Whole genome sequencing (WGS)	Large genome & small (microbial) genome WGS[1]	Preparing whole genome and metagenome libraries using SMRTbell prep kit 3.0 [102-166-600]
		Preparing whole genome libraries using the HiFi prep kit 96 [103-420-700]
		Preparing multiplexed whole genome and amplicon libraries using the HiFi plex prep kit 96 [103-418-800]
	Ultra-low DNA input WGS	Preparing HiFi SMRTbell libraries from ultra-low DNA input [101-987-800]
Viral sequencing (VIRAL)	HiFiViral SARS-CoV-2	PacBio HiFiViral high-throughput multiplexing for full-viral genome sequencing of SARS-CoV-2 using SMRTbell prep kit 3.0 [102-396-100]
	Adeno-associated virus (AAV)	Preparing multiplexed AAV SMRTbell libraries using SMRTbell prep kit 3.0 [102-126-400]
RNA sequencing (RNA)	Kinnex full-length RNA	Preparing Kinnex libraries using the Kinnex full-length RNA kit [103-238-700]
	Kinnex single-cell RNA	Preparing Kinnex libraries using Kinnex single-cell RNA kit [103-254-300]
Metagenomics (META)	Kinnex full-length 16s	Preparing Kinnex libraries from 16S rRNA amplicons [103-238-800]
	Shotgun metagenomics assembly	Preparing whole genome and metagenome libraries using SMRTbell prep kit 3.0 [102-166-600]
	Shotgun metagenomics profiling	Preparing multiplexed whole genome and amplicon libraries using the HiFi plex prep kit 96 [103-418-800]
Targeted sequencing (TARG)	Amplicon sequencing	Preparing multiplexed amplicon libraries using SMRTbell prep kit 3.0 [102-359-000]
		Preparing multiplexed amplicon libraries using PacBio barcoded M13 primers & SMRTbell prep kit 3.0 [101-921-300]
		Preparing multiplexed whole genome and amplicon libraries using the HiFi plex prep kit 96 [103-418-800]
	HiFi target enrichment sequencing	Preparing multiplexed amplicon libraries using SMRTbell prep kit 3.0 [102-359-000]
	PureTarget sequencing	Generating PureTarget repeat expansion panel libraries [103-329-400]

[1] Includes human/animal/plant/other WGS, microbial WGS, and shotgun metagenomic profiling or assembly.

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Laboratory equipment and material recommendations guide

+	Compatible with a specific application
-	Not recommended for a specific application
Highly recommended	Where multiple compatible equipment options may be available for a particular category, specific products that are highly recommended to enable generation of optimal SMRT sequencing data quality are also highlighted*

Note: Use of other compatible equipment options that are not specifically designated as "Highly Recommended" may require adjustment of input genomic DNA amounts (depending on the sample genome size and target coverage requirements) for HiFi whole genome sequencing projects to accommodate the DNA sizing QC steps. For more detailed guidance regarding specific equipment recommendations, refer to the appropriate PacBio **Procedure & checklist**.

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A. DNA sizing analysis

PacBio highly recommends using the Femto Pulse system (Agilent Technologies) for DNA sizing QC analysis of genomic DNA and SMRTbell libraries in HiFi whole genome sequencing (WGS) sample preparation workflows. Use of other compatible equipment options that are not specifically designated as "Highly Recommended" may lead to lower HiFi data yields and/or lower HiFi data quality, or may require adjustment of input genomic DNA amounts (depending on the sample genome size and target coverage requirements) for HiFi WGS projects to accommodate the DNA sizing QC steps. For more detailed guidance regarding specific equipment recommendations, refer to the appropriate PacBio Procedure & checklist.

	Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
				Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Femto Pulse system for DNA sizing analysis up to ~165 kb													
Highly recommended for all WGS applications	Agilent technologies	Femto Pulse system • Rapid analysis time (<1.5 hours) • Requires <1 ng of sample • Suitable for analysis of SMRTbell libraries and genomic DNA up to ~165 kb using Genomic DNA 165 kb kit • Can also resolve DNA fragments 100 bp – 6 kb using Ultra Sensitivity NGS kit	M5330AA	+	+	+	+	+	+	+	+	+	+
Highly recommended for all WGS applications	Agilent technologies	Genomic DNA 165 kb kit for Femto Pulse	FP-1002-0275	+	+	+	+	+	+	+	+	+	+

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Bioanalyzer 2100 system for DNA sizing analysis up to ~7 – 15 kb												
Agilent technologies	Bioanalyzer 2100 platform • Suitable for analysis of SMRTbell libraries up to ~15 kb	G2939BA	-	-	+	+	+	+	+	-	+	-
Agilent technologies	DNA 7500 kit for Bioanalyzer 2100	5067-1506	-	-	+	-	-	-	+	-	+	-
Agilent technologies	DNA 12000 kit for Bioanalyzer 2100	5067-1508	-	-	+	+	+	-	+	-	+	-
Agilent technologies	High Sensitivity Analysis kit for Bioanalyzer 2100	5067-4626	-	-	+	+	+	+	+	-	+	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Fragment Analyzer system for DNA sizing analysis up to ~50 kb												
Agilent technologies	Fragment Analyzer system • Suitable for analysis of SMRTbell libraries up to ~50 kb	M5310AA	+	+	+	+	+	+	+	+	+	+
Agilent technologies	Large Fragment 50 kb kit for Fragment Analyzer	DNF-464-0500	+	+	+	+	+	+	+	+	+	+
Pippin Pulse system for DNA sizing analysis up to ~100 kb												
Sage science	Pippin Pulse system • Suitable for analysis of SMRTbell libraries and genomic DNA up to ~100 kb	PPI0200	+	-	-	-	-	-	-	-	-	-
Galileo bioscience	Gel Tank with Tray and Combs	80-1214	+	-	-	-	-	-	-	-	-	-

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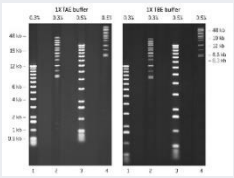
Sage science	10X KBB Buffer	KBB1001	+	-	-	-	-	-	-	-	-	-
Lonza	SeaKem® Gold Agarose 	50150	+	-	-	-	-	-	-	-	-	-

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B. DNA quantification analysis

	Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
				Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
	Fluorometric assay systems												
Highly recommended for low- & mid-throughput workflows	Thermo Fisher Scientific	Qubit 4 Fluorometer • Fluorometric-based assay method • Enables highly accurate and sensitive quantitation of dsDNA	Q33238	+	+	+	+	+	+	+	+	+	+
	Thermo Fisher Scientific	Qubit Assay Tubes	Q32856	+	+	+	+	+	+	+	+	+	+
	Thermo Fisher Scientific	Qubit 1X dsDNA High Sensitivity (HS) Assay kit	Q33230	+	+	+	+	+	+	+	+	+	+

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	Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
				Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
	Fluorometric assay systems												
Highly recommended for high-throughput workflows	Thermo Fisher Scientific	Varioskan LUX Multimode Microplate reader • Fluorometric-based assay method • Enables highly accurate and sensitive quantitation of dsDNA	VL0L00D0	+	+	+	+	+	+	+	+	+	+
	Thermo Fisher Scientific	Microplates for Fluorescence-based Assays, 96-well	M33089	+	+	+	+	+	+	+	+	+	+
	Thermo Fisher Scientific	Quant-iT™ 1X dsDNA High Sensitivity (HS) kit	Q33232	+	+	+	+	+	+	+	+	+	+

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C. DNA purity analysis

Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Spectrophotometric assay systems												
Thermo Fisher Scientific	NanoDrop™ Spectrophotometer	D-ONEC-W	+	+	+	+	+	+	+	+	+	+

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D. DNA shearing

PacBio highly recommends using Hamilton liquid handling systems for shearing DNA to a ~15 – 20 kb fragment size range for WGS sample preparation workflows. If a Hamilton system is unavailable, a Megaruptor 3 system, Spex SamplePrep 1600 MiniG homogenizer or MP Bio FastPrep 96 homogenizer may also be used to shear DNA samples. If none of the above shearing tools are unavailable, the Covaris g-TUBE presents an alternative shearing method that does not require instrumentation beyond a standard microcentrifuge – see Technical note: Covaris g-TUBE DNA shearing for SMRTbell prep kit 3.0 (102-326-501) for more information. For more detailed guidance regarding specific equipment recommendations, refer to the appropriate PacBio Procedure & checklist.

	Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
				Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Hamilton liquid handling systems for pipette tip-based shearing of DNA to 13 – 22 kb fragment sizes													
Highly recommended for WGS applications	Hamilton	Microlab Prep Shear up to 24 samples at a time in <25 min	B06010003	+	-	-	-	-	-	-	+	-	-
	Hamilton	Hamilton Assay Ready Workstation • Shear up to 24 samples at a time in <10 min	Contact Hamilton	+	-	-	-	-	-	-	+	-	-
	Hamilton	300 µL CO-RE II Tips (Filtered, Conductive)	235903	+	-	-	-	-	-	-	+	-	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Megaruptor 3 system for shearing DNA to 5 – 100 kb fragment sizes												
Diagenode	Megaruptor 3 system • Includes 8-sample cassette	B06010003	+	+	-	-	-	-	-	+	-	-
Diagenode	Megaruptor 3 cassette for 12 samples	B06010020	+	+	-	-	-	-	-	+	-	-
Diagenode	Megaruptor 3 Shearing kit	E07010003	+	+	-	-	-	-	-	+	-	-
Diagenode	Megaruptor 3 DNAFluid+ kit	E07020001	+	-	-	-	-	-	-	+	-	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Grinder and lysis systems for shearing DNA to 7 – 20 kb fragment sizes												
Spex SamplePrep (Cole Parmer)	1600 MiniG homogenizer	1600	+	+	-	-	-	-	-	+	-	-
MP Biomedicals	FastPrep-96 homogenizer	116010500	+	+	-	-	-	-	-	+	-	-
g-TUBE devices for shearing DNA to 6 – 20 kb fragment sizes												
Covaris	g-TUBE	520079	+	+	-	-	-	-	-	+	-	-

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E. DNA size selection

For WGS applications (e.g., Procedure & checklist – Preparing whole genome and metagenome sequencing libraries using SMRTbell prep kit 3.0 (102-166-600)), AMPure PB bead size selection is the recommended default method to remove short DNA fragments and enrich for the long fragments that are most valuable for downstream HiFi data analysis. Although size-selection beads have many advantages, automated DNA size selection systems that utilize gel cassettes offer more flexibility in defining a size cutoff. This section lists several automated DNA size selection tools that may optionally be employed for performing size selection on SMRTbell libraries for HiFi WGS applications. Note that use of these tools requires higher input DNA amounts (≥1.5 µg/SMRT Cell 8M or ≥3 µg/Revio SMRT Cell). For more information, refer to Technical Note: Alternative Size Selection Methods for SMRTbell Prep kit 3.0 (102-326-503), which provides detailed guidance for size selection of WGS libraries using automated DNA size selection tools.

Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
SageELF system for DNA size selection 100 bp – 40 kb												
Sage science	SageELF system • Separates DNA samples by size, and then simultaneously fractionates the whole sample into 12 fractions • One sample is fractionated on a single precast agarose cassette, and one or two cassettes may be processed at one time	ELF0001	+	-	-	-	-	-	-	-	-	-
Sage science	0.75% Agarose Cassette for SageELF	ELD7510	+	-	-	-	-	-	-	-	-	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
PippinHT system for DNA size selection 100 bp – 50 kb												
Sage science	PippinHT system • Separates DNA samples by size, and collects all fragments above a size threshold set by the user • Up to 10 samples (plus a Size Marker) can be fractionated on a single precast agarose cassette, and up to two cassettes (20 samples) may be processed at one time	HTP0001	+	+	-	-	-	-	-	-	-	-
Sage science	0.75% Agarose Cassette for PippinHT (with Marker 75E)	HPE7510	+	+	-	-	-	-	-	-	-	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
PippinHT system for DNA size selection 100 bp – 50 kb												
Sage science	BluePippin system • Separates DNA samples by size, and collects all fragments above a size threshold set by the user • Up to four samples (plus a Size Marker) can be fractionated on a single precast agarose cassette, and only one cassette may be processed at one time	BLU0001	+	+	-	-	-	-	-	-	-	-
Sage science	0.75% Agarose Cassette for BluePippin (with Marker S1)	BLF7510	+	+	-	-	-	-	-	-	-	-

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
LightBench system for DNA size selection 10 bp – 20 kb+												
Yourgene Health	LightBench system • Provides accurate size selection for WGS and includes ability to perform fragment length analysis for additional quality control. • With an automated workflow to optimize walk-away time, the LightBench offers a scalable size selection solution for the preparation of SMRTbell libraries for HiFi sequencing	CG-12500-03	+	+	-	-	-	-	-	-	-	-
Yourgene Health	Cassette and Dual Dye Loading Buffer kit for LightBench (with 7 kb marker)	CG-14100-13-050-31-31	+	+	-	-	-	-	-	-	-	-

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F. General laboratory equipment

Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Benchtop microcentrifuges												
Eppendorf	See recommended models below MiniSpin® Plus 	022620100	+	+	+	+	+	+	+	+	+	+
	Centrifuge 5425 	5405000441										
Mini microcentrifuges												
VWR	Mini Microcentrifuge 	10153-842	+	+	+	+	+	+	+	+	+	+
Plate centrifuges												
Eppendorf	Plate Centrifuge 	EP022628168	+	+	+	+	+	+	+	+	+	+

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Vortex mixers												
VWR	Digital Vortex Mixer (or equivalent)	10153-842	+	+	+	+	+	+	+	+	+	+
VWR	Microtube and microplate holder kit with insert retainer for vortex mixer	Q33230	+	+	+	+	+	+	+	+	+	+
Thermal mixers												
Eppendorf	Eppendorf ThermoMixer® C (or equivalent) • Provides stable incubation temperatures for low-throughput SMRTbell library construction reactions using 1.5 mL or 2.0 mL tubes	2231000667	+	+	+	+	+	+	+	+	+	+

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Thermal cyclers												
Thermo Fisher Scientific	SimpliAmp Thermal Cycler (or equivalent) • Provides stable incubation temperatures for high-throughput SMRTbell library construction reactions using microplates or 0.2 mL PCR tubes • Controllable heated lid preferred • 96-well capacity recommended for high-throughput environments	A24811	+	+	+	+	+	+	+	+	+	+

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Heat sealer (A heat sealer and heat sealing foil sheets are required for Sequel IIe system sequencing preparation workflows. For Revio system high-throughput WGS library preparation workflows using HiFi prep kit 96 in a microplate format with automated liquid handling equipment, clear adhesive sealing films may optionally be used for specific workflow steps.)												
Thermo Fisher Scientific	ALPS 50 V-Manual Heat Sealer (or equivalent) • Heat sealer should be capable of maintaining temperatures between 160°C to 178°C. Heat sealers exceeding this range may have negative impacts on sequencing results.	AB-1443A	+	+	+	+	+	+	+	+	+	+
Thermo Fisher Scientific	Easy Pierce Heat Sealing Foils	AB-0757	+	+	+	+	+	+	+	+	+	+
Pipettes and tips												
Gilson	P2, P10, P20, P100, P200, P1000 Pipettes	F144801 F144802 F123600 F123615 F123601 F123602	+	+	+	+	+	+	+	+	+	+
Gilson	Filter Tips for Pipettes	F1731031 F1733031 F1735031 F172613	+	+	+	+	+	+	+	+	+	+

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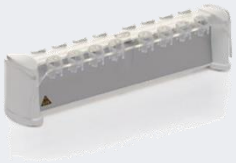
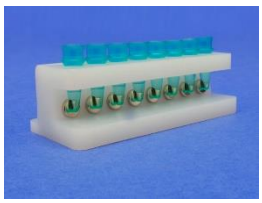
Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Ice makers												
VWR	Flake Ice Maker with Bin (or equivalent)	89166-534	+	+	+	+	+	+	+	+	+	+
Magnetic separator racks												
Thermo Fisher Scientific	DynaMag™-2 Magnet Separation Stand for 1.5–2 mL Microcentrifuge Tubes (or equivalent) 	12321D	+	+	+	+	+	+	+	+	+	+
V & P Scientific, Inc.	Low Profile Magnetic Separation Stand for 0.2 mL, 8-Strip PCR Tubes (or equivalent) 	VP772F4-1	+	+	+	+	+	+	+	+	+	+

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Lab refrigerators (4°C)												
VWR	Standard Series Lab Refrigerator (or equivalent)	76314-274	+	+	+	+	+	+	+	+	+	+
Lab freezers (-20°C)												
VWR	Standard Series Lab Freezer with Manual Defrost (or equivalent)	76314-276	+	+	+	+	+	+	+	+	+	+

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G. General laboratory reagents and consumables

Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Tubes*												
USA Scientific	0.2 mL TempAssure PCR 8-tube strips (or equivalent)	1402-4708	+	+	+	+	+	+	+	+	+	+
Eppendorf	Eppendorf DNA LoBind Tube 0.5 mL, PCR clean	022431005	+	+	+	+	+	+	+	+	+	+
Eppendorf	Eppendorf DNA LoBind Tube 1.5 mL, PCR clean	022431021	+	+	+	+	+	+	+	+	+	+
Eppendorf	Eppendorf DNA LoBind Tube 2.0 mL, PCR clean	022431048	+	+	+	+	+	+	+	+	+	+
VWR	Falcon™ Conical Centrifuge Tubes, PP (Polypropylene), 15 mL / 50 mL	21008-936 21008-940	+	+	+	+	+	+	+	+	+	+

* Corning® Axygen® consumables are not compatible with SMRT sequencing and should not be used in the preparation of PCR amplicons or SMRTbell® templates.

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Vendor	Product	PN	WGS		VIRAL		RNA		META		TARG	
			Large & small genome WGS	Ultra-low DNA input WGS	HiFiViral SARS-CoV-2	AAV	Kinnex full-length RNA	Kinnex single-cell RNA	Kinnex full-length 16S	Shotgun metagenomics	Amplicon Seq. & HiFi target enrichment	PureTarget Seq.
Ethyl alcohol, pure												
Sigma-Aldrich	Ethyl Alcohol, Pure, 200 Proof, Molecular Biology or ACS Reagent Grade CH_3CH_2OH	459844	+	+	+	+	+	+	+	+	+	+
Molecular biology grade water												
Teknova	Nuclease-Free Water, for Molecular Biology (or equivalent) H_2O	W3330	+	+	+	+	+	+	+	+	+	+
Sample and buffer plate accessories for Agilent Fragment Analyzer and Femto Pulse systems												
Eppendorf	twin.tec® PCR Plate 96, semi-skirted, 250 µL, PCR clean, colorless plates • Recommended sample plate for Agilent Fragment Analyzer & Femto Pulse systems	951020303	+	+	+	+	+	+	+	+	+	+
Thermo Fisher Scientific	Fisherbrand™ 96-Well DeepWell™ Polypropylene Microplates, 1 mL • Recommended buffer plate for Agilent Fragment Analyzer & Femto Pulse systems	12-566-120	+	+	+	+	+	+	+	+	+	+

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Revision history (description)	Version	Date
Updated list of supported Procedure & checklist documentation references and added new Kinnex sequencing, HiFi target enrichment sequencing, and PureTarget sequencing workflow categories.	09	April 2024

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