

Loading and pre-extension recommendations for Sequel[®] II/IIe systems

Quick reference card

Run Design and Sample Setup in PacBio's SMRT[®] Link software provide instructions for preparing and sequencing SMRTbell libraries for each supported application. This document lists any changes in the instructions between software releases. Follow the instructions in this document if they differ with the software. Contact PacBio [Technical Support](#) with any questions.

Application	Library prep kit*	Sequencing primer (Annealing time)	Binding kit (Binding time)	Complex cleanup	Loading concentration range (pM)
Refer to Run Design and Sample Setup in the SMRT Link software for current recommendations.					

Pre-Extension and movie time recommendations

Application	Pre-extension time (hours)	Adaptive loading target (P1 + P2)	Movie collection time (hours)
Refer to Run Design and Sample Setup in the SMRT Link software for current recommendations.			

Revision History (Description)	Version	Date
Initial release.	01	April 2019
Added loading recommendations for Iso-Seq and 16S applications.	02	June 2019
Updated recommendations for the new Binding Kit and Sequencing plate	03	September 2019
Updated to add multiplex options for various applications.	04	November 2019
Updated to add Ultra-Low DNA and several other parameter changes.	05	November 2020
Updated to add Sequel II Polymerase 2.2	06	April 2021
Added "Also compatible with Binding Kit 2.2 and Sequencing Primer v5" in footer of first table. Updated De Novo Assembly – HiFi Reads or Variant & SV Detection – HiFi Reads insert sizes to 15 kb to 18 kb).	07	May 2021
Updated Binding Kit, Sequencing Primer, Pre-Extension Time and Adaptive Loading for Microbial Multiplexing, Low-DNA and Ultra-Low DNA for De Novo Assembly and Shotgun Metagenomics applications.	08	July 2021
Updated sample setup recommendations for HiFiViral SARS-CoV-2 applications.	09	November 2021
Clarify precedence of this document over SMRT Link software. List only differences.	10	May 2022

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