

Sequel® Ile System: Location of HiFi Reads Files

Introduction

This document describes how to locate the hifi_reads files generated by SMRT® Link when you perform an on-instrument CCS analysis on the Sequel® IIe System.

Note: This document applies only to the Sequel IIe System.

HiFi Reads Generation

An on-instrument CCS analysis generates a reads.bam file and transfers it to the network server. The reads.bam file contains HiFi Reads and non-HiFi Reads, and should **not** be used unfiltered as input for tools that expect ≥ QV 20. SMRT Link **automatically** launches an Export Reads analysis on the reads.bam to filter out the HiFi Reads, and generates the following HiFi data files by default:

- <Movie Name>.hifi reads.fastq.gz FASTQ file containing HiFi Reads
- <Movie Name>.hifi reads.fasta.gz FASTA file containing HiFi Reads
- <Movie Name>.hifi reads.bam BAM file containing HiFi Reads

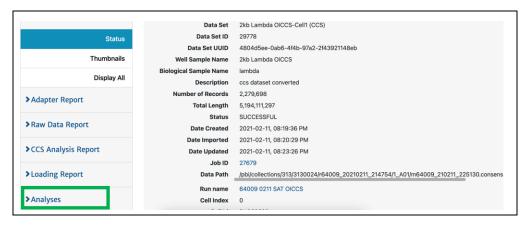
If **not** using SMRT Link for subsequent analysis, please use these three files as input with any third-party analysis tools.

Finding the hifi_reads Files Generated Using On-Instrument CCS

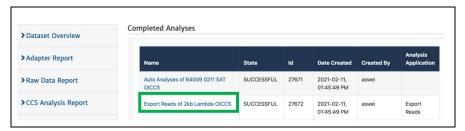
1. In Run QC, click the desired run, then click the sample name to view the CCS Data Set.



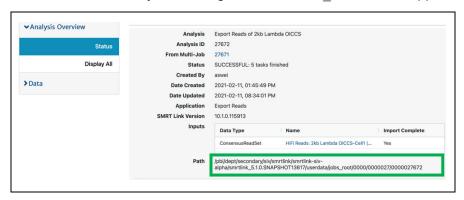
Click Analyses in the left-side panel.



3. Click the **Export Reads** analysis.



4. To locate the directory containing the three hifi reads files, append /outputs to the path shown.



The three hifi reads files are also available for download using Data > File Downloads in the same analysis.

For information about the content and location of the reads.bam and other files generated by the Sequel IIe System, see page 147 of the document **SMRT Link User Guide (v10.1)**, available here.

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