

# **Local Run Manager**

## **Generate FASTQ Analysis Modules v3.1.0 and v2.1.0**

### **Release Notes**

## Introduction

These Release Notes detail notable items for the Local Run Manager Generate FASTQ Analysis Module v3.1.0 and v2.1.0 releases.

Please note that the Generate FASTQ Analysis Module v3.1.0 requires Local Run Manager Framework v3.0 or higher and is not compatible with Local Run Manager Framework v2 or lower while Generate FASTQ Analysis Module v2.1.0 requires Local Run Manager Framework v2 and is not compatible with Local Run Manager Framework v3.0 or higher.

For more information on module version compatibility per instrument platform, refer to [Local Run Manager Module Selector](#).

For more information about this analysis module and how to use it, refer to the Local Run Manager Generate FASTQ Analysis Module Workflow Guide, available from the [Local Run Manager Support Page](#), Documentation & Literature.

## I. Generate FASTQ Module v3.1.0

### NEW FEATURES:

- Added support for a new Library Kit with a new Index Kit and existing Index Kits:

Library Prep Kit	Index Kits
Illumina Microbial Amplicon Prep (New)	Ilmn UD Indexes LT (New) Ilmn DNA-RNA UD Indexes SetA Tagmentation (New) Ilmn DNA-RNA UD Indexes SetB Tagmentation (New) Ilmn DNA-RNA UD Indexes SetC Tagmentation (New) Ilmn DNA-RNA UD Indexes SetD Tagmentation (New) Ilmn DNA-RNA UD Indexes SetABCD Tagmentation (New) IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation IDT-Ilmn DNA-RNA UD Indexes SetABCD Tagmentation

- Updated the following Library Prep Kits with new Index Kits and existing Index Kits

Library Prep Kits	Index Kits
Illumina DNA Prep	Ilmn UD Indexes LT (New) Ilmn DNA-RNA UD Indexes SetA Tagmentation (New) Ilmn DNA-RNA UD Indexes SetB Tagmentation (New) Ilmn DNA-RNA UD Indexes SetC Tagmentation (New) Ilmn DNA-RNA UD Indexes SetD Tagmentation (New) Ilmn DNA-RNA UD Indexes SetABCD Tagmentation (New)

	<p>Nextera DNA CD Indexes - 96 Indexes Plated          IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetABCD Tagmentation</p>
<p>Illumina DNA Prep with Enrichment</p>	<p>Ilmn UD Indexes LT (New)          Ilmn DNA-RNA UD Indexes SetA Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetB Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetC Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetD Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetABCD Tagmentation (New)          IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetABCD Tagmentation</p>
<p>Illumina DNA PCR-Free 2x149          Illumina DNA PCR-Free 2x151</p>	<p>Ilmn DNA-RNA UD Indexes SetA Tagmentation - ILMN PCR-Free (New)          Ilmn DNA-RNA UD Indexes SetB Tagmentation - ILMN PCR-Free (New)          Ilmn DNA-RNA UD Indexes SetC Tagmentation - ILMN PCR-Free (New)          Ilmn DNA-RNA UD Indexes SetD Tagmentation - ILMN PCR-Free (New)          IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation - ILMN PCR-Free          IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation - ILMN PCR-Free          IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation - ILMN PCR-Free          IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation - ILMN PCR-Free</p>
<p>Illumina RNA Prep with Enrichment</p>	<p>Ilmn UD Indexes LT (New)          Ilmn DNA-RNA UD Indexes SetA Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetB Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetC Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetD Tagmentation (New)          Ilmn DNA-RNA UD Indexes SetABCD Tagmentation (New)          IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation          IDT-Ilmn DNA-RNA UD Indexes SetABCD Tagmentation</p>

- Removed End-Of-Life Nextera Index Kits from Illumina DNA Prep, Illumina DNA prep with Enrichment and Nextera XT Library Prep Kits:
  - Nextera DNA CD Indexes - 24 Indexes Tubed
  - IDT-ILMN Nextera DNA UD Indexes Set A - 96 Indexes
  - IDT-ILMN Nextera DNA UD Indexes Set B - 96 Indexes
  - IDT-ILMN Nextera DNA UD Indexes Set C - 96 Indexes
  - IDT-ILMN Nextera DNA UD Indexes Set D - 96 Indexes
  - IDT-ILMN Nextera DNA UD Indexes Set A B C D - 384 Indexes

**FIXED ISSUES:**

- Fixed a discrepancy that can result in an elevated rate of no calls in the FASTQ data in Generate FASTQ analysis module

**KNOWN ISSUES:**

- MiSeq Suite v4.0: When importing sample sheet onto the MiSeq Control SW, unclear error message might be displayed. Check sample sheet if error is seen.
  - Common issue include formatting, ensure headers are specified, ensure workflow field is exactly as Local Run Manager interface display, etc.
- Statistics fields are missing in GenerateFastQStatistics.xml file (displaying 0). Recommended to use RunParameters.xml file instead of utilizing GenerateFastQStatistics.xml file.
- During module update, library prep kit and index that were no longer supported still persist. Workaround in previous release notes is not applicable

## II. Generate FASTQ Module v2.1.0

**NEW FEATURES:**

- None

**FIXED ISSUES:**

- Fixed a discrepancy that can result in an elevated rate of no calls in the FASTQ data in Generate FASTQ analysis module

**KNOWN ISSUES:**

- None