

Local Run Manager

Generate FASTQ Analysis Modules v3.1.1

Release Notes

Introduction

These Release Notes detail notable items for the Local Run Manager Generate FASTQ Analysis Module v3.1.1 release.

Please note that the Generate FASTQ Analysis Module v3.1.1 requires Local Run Manager Framework v3.0 or higher and is not compatible with Local Run Manager Framework v2.4 or lower.

For more information on module version compatibility per instrument platform, refer to Local Run Manager Module Selector (<https://customprotocolselector.illumina.com/selectors/LRM-module-selector/Content/Source/FrontPages/LRM-module-selector.htm>).

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 (https://sapac.support.illumina.com/sequencing/sequencing_software/local-run-manager.html).

I. Generate FASTQ Module v3.1.0

NEW FEATURES:

- Extended Character Limits for Sample Fields in Run Setup:
 - The "Sample ID" field character limit has been increased from 40 to 90 characters.
 - The "Sample Name" field character limit has been increased from 40 to 100 characters.
- Removed the following End-Of-Life Library Prep Kits and the associated Index Kits:

Library Prep Kit	Index Kits
TruSeq Ribo Profile	TruSeq Ribo Profile
TruSeq Targeted RNA Expression	TruSeq Targeted RNA Expression
SureCell WTA 3'	SureCell WTA 3'
Nextera Mate Pair	Nextera Mate Pair
TruSeq DNA Exome Enrichment	IDT-ILMN TruSeq DNA UD Indexes - 24 Indexes IDT-ILMN TruSeq DNA UD Indexes 96 Indexes IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes TruSeq Exome - 8 rxn x 3 6 9 plex TruSeq Exome - 8rxn x 12plex TruSeq DNA CD Indexes - 96 Indexes TruSeq DNA Single Indexes Set A B TruSeq DNA Single Indexes Set A TruSeq DNA Single Indexes Set B 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 Sets A B C D - 384 Indexes

ScriptSeq Complete	ScriptSeq Complete
ScriptSeq v2	ScriptSeq v2
TruSeq Amplicon Cancer Panel	TruSeq Amplicon Cancer Panel
TruSeq Custom Amplicon	TruSeq Custom Amplicon
TruSeq Custom Amplicon Low Input	TruSeq Custom Amplicon Low Input
TruSeq DNA Methylation	TruSeq DNA Methylation
TruSeq Methyl Capture EPIC	TruSeq Methyl Capture EPIC
TruSight Myeloid	TruSight Myeloid
TruSight Tumor 26	TruSight Tumor 26

- Updated the following Library Prep Kits to remove End-of-Life Index Kits:

Library Prep Kit	Index Kits
TruSeq Stranded mRNA	IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes TruSeq RNA Single Indexes Set A B TruSeq RNA Single Indexes Set A TruSeq RNA Single Indexes Set B TruSeq RNA CD Indexes 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set A - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set B - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set C - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set D - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set A B C D - 384 Indexes (Removed) IDT-ILMN TruSeq RNA UD Indexes - 24 Indexes (Removed) IDT-ILMN TruSeq RNA UD Indexes - 96 Indexes (Removed)
TruSeq Stranded Total RNA	IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes TruSeq RNA Single Indexes Set A B TruSeq RNA Single Indexes Set A TruSeq RNA Single Indexes Set B TruSeq RNA CD Indexes 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set A - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set B - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set C - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set D - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set A B C D - 384 Indexes (Removed) IDT-ILMN TruSeq RNA UD Indexes - 24 Indexes (Removed) IDT-ILMN TruSeq RNA UD Indexes - 96 Indexes (Removed)
TruSeq DNA PCR-Free	IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes IDT-ILMN TruSeq DNA UD Indexes - 24 Indexes (Removed) IDT-ILMN TruSeq DNA UD Indexes - 96 Indexes (Removed) TruSeq DNA CD Indexes - 96 indexes (Removed) TruSeq DNA Single Indexes Set A B (Removed) TruSeq DNA Single Indexes Set A (Removed) TruSeq DNA Single Indexes Set B (Removed)
TruSeq Nano DNA	IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes IDT-ILMN Nextera DNA UD Indexes Set A - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set B - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set C - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set D - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Sets A B C D - 384 Indexes (Removed) IDT-ILMN TruSeq DNA UD Indexes - 24 Indexes (Removed) IDT-ILMN TruSeq DNA UD Indexes - 96 Indexes (Removed) TruSeq DNA CD Indexes - 96 indexes (Removed)

	TruSeq DNA Single Indexes Set A B (Removed) TruSeq DNA Single Indexes Set A (Removed) TruSeq DNA Single Indexes Set B (Removed)
--	---

FIXED ISSUES:

- Fixed the issue where Adapter Trimming settings do not save on LRM UI.
- Removed UMI Anchor Kit setting from LRM UI since LRM Modules do not support UMI.
- Updated the default read length of the following Library Prep Kits to 2x76:
 - Illumina Stranded Total RNA
 - Illumina Stranded mRNA
- Updated the default read length of the Illumina RNA Prep Library Prep Kit to 2x101.
- Fixed issue where error is displayed when re-importing a Sample Sheet with an Index Reads value of 0 or 1, or when re-importing a Sample Sheet with different Library Prep Kit or Index Kit.
- Fixed issue where Custom index sequence is not shown on Samples & Results page tab.
- Fixed issue where Custom primers don't update in the Local Run Manager run if they are updated in the Control Software.

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 kit that were no longer supported still persist.

OTHER:

- When using a custom kit, you must always enter your i5 indexes in forward orientation. Local Run Manager will automatically reverse complement the i5 indexes when writing the sample sheet used for analysis in the NextSeq, iSeq and MiniSeq. Local Run Manager will not reverse complement i5 indexes in the MiSeq.
- BuildFASTQ v2.5.56.27 is used for BCL to FASTQ conversion in the Generate FASTQ Analysis Module.

PREVIOUS RELEASE NOTES

Generate FASTQ Analysis Modules v3.1.0 and v2.1.0

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.

II. 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)

	<p>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) 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</p>

	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
--	---

- 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

III. 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