

Local Run Manager

Assembly Analysis Module v2.0

Customer Release Notes

January 17, 2023

Introduction

These Release Notes detail notable items for the Local Run Manager Assembly Analysis Module v2.0 release.

Please note that the Assembly Analysis Module 2.0 requires Local Run Manager Framework v3.0 or higher and is not compatible with Local Run Manager Framework v2.0 or lower. 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 Assembly Analysis Module Workflow Guide, available from the Illumina Local Run Manager Support Page, Documentation & Literature.

http://support.illumina.com/sequencing/sequencing_software/local-run-manager/documentation.html

NEW FEATURES:

- Illumina Library Prep Kits (LPK) and Index Adapter Kits (IAK) are decoupled.
 - Users now able to choose both the LPK and IAK options from Local Run Manager interface.
 - Sample sheet export from Local Run Manager will now include the Index Kits field aside from the Library Prep Kits.
 - Added support for custom Library Prep Kits and Index Kits.
 - Added UMI Anchor Kit toggle for applicable Index Kits.
 - Added separate directories for Illumina Library Prep Kits and Index Kits.
 - Renamed Library Prep Kit Nextera DNA Flex as Illumina DNA Prep and updated corresponding Index Kits.

Library Prep Kit	Index Kits
Illumina DNA Prep	Nextera DNA CD Indexes - 24 Indexes Tubed
	Nextera DNA CD Indexes - 96 Indexes Plated
	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
	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

- Added two Index Kits to Nextera XT Library Prep Kit.
 - IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation
 - IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation
- Added and updated two Index Kits to TruSeq DNA & RNA Library Prep Kits.
 - IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes
 - IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes
 - Replaced Indexes UDI0015, UDI0016, UDI0055, UDI0056 with new v2 Indexes UDI0015v2, UDI0016v2, UDI0055v2, UDI0056v2
- Added Custom Primers use warning when applicable on the interface.
- Removed Show Index Name/Sequence option when the Library Prep Kit is set to Custom.
- Compatibility check with Local Run Manager Framework v3.0 only.
- Windows 10 integration updates.

FIXED ISSUES:

- When the user selects certain library prep kits, like Nextera DNA, the I7 and I5 index fields are now marked as required fields.
- Fixed issue where Samples Output Sheet and Results page were at an incorrect order.

KNOWN ISSUES:

- When importing sample sheet into the MiSeq Control Software (MCS), unclear error message might be displayed. Check sample sheet if error is seen.
 - Common issues include formatting, ensure headers are specified, ensure Workflow field is exactly as Local Run Manager interface displays, etc.
- Sample table grid are not aligned with the Sample Number column as higher sample number are added.
- During Module update, library prep kits that were no longer supported still persist. To update Library Prep Kit list, follow below steps.
 1. Uninstall previous module (if any)
 2. Uninstall current module
 3. Uninstall all components of LRM including Postgres
 4. Re-install LRM
 5. Re-install current module
- Custom Primers don't update in the Local Run Manager run if they are updated in the Control Software.

- If the Local Run Manager Analysis Service is restarted, this could cause a running analysis to crash. Analysis can be requeued if this happens.

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 is used for BCL to FASTQ conversion in the Assembly Analysis Module.

PREVIOUS RELEASE NOTES

ASSEMBLY ANALYSIS MODULE v1.0

DOCUMENT NUMBER 1000000061269 VERSION 00

NEW FEATURES:

- Initial release

DEFECT REPAIRS:

- N/A

KNOWN ISSUES:

- When the user selects certain library prep kits, like Nextera DNA, the I7 and I5 index fields will not be marked as required fields.
- Custom Primers don't update in the Local Run Manager run if they are updated in the Control Software.
- If the Local Run Manager Analysis Service is restarted, this could cause a running analysis to crash.

OTHER:

- When using a custom kit, you must always enter your i5 indexes in the MiSeq or forward orientation. Local Run Manager will automatically reverse complement the indexes when writing the sample sheet used for analysis.