

Local Run Manager

DNA Enrichment Analysis Module

v3.1

Release Notes

Introduction

These Release Notes detail notable items for the Local Run Manager DNA Enrichment Analysis Module v3.1 release.

Please note that the DNA Enrichment Analysis Module v3.1 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 (<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 DNA Enrichment Analysis Module Workflow Guide, available from the Local Run Manager Support Page (https://sapac.support.illumina.com/sequencing/sequencing_software/local-run-manager.html), Documentation & Literature.

NEW FEATURES:

Updated the following Library Prep Kit with new Index Kits & existing Index Kits and removed End-of-Life Nextera Index Kits:

Library Prep Kit	Index Kits
Illumina DNA Prep with Enrichment	<p>Ilmn UD Indexes LT (New)</p> <p>Ilmn DNA-RNA UD Indexes SetA Tagmentation (New)</p> <p>Ilmn DNA-RNA UD Indexes SetB Tagmentation (New)</p> <p>Ilmn DNA-RNA UD Indexes SetC Tagmentation (New)</p> <p>Ilmn DNA-RNA UD Indexes SetD Tagmentation (New)</p> <p>Ilmn DNA-RNA UD Indexes SetABCD Tagmentation (New)</p> <p>IDT-Ilmn DNA-RNA UD Indexes SetA Tagmentation</p> <p>IDT-Ilmn DNA-RNA UD Indexes SetB Tagmentation</p> <p>IDT-Ilmn DNA-RNA UD Indexes SetC Tagmentation</p> <p>IDT-Ilmn DNA-RNA UD Indexes SetD Tagmentation</p> <p>IDT-Ilmn DNA-RNA UD Indexes SetABCD Tagmentation</p> <p>IDT-ILMN Nextera DNA UD Indexes Set C - 96 Indexes (Removed)</p> <p>IDT-ILMN Nextera DNA UD Indexes Set D - 96 Indexes (Removed)</p> <p>IDT-ILMN Nextera DNA UD Indexes Set A B C D - 384 Indexes (Removed)</p>
TruSeq DNA Exome Enrichment	<p>IDT-ILMN TruSeq DNA UD Indexes - 24 Indexes</p> <p>IDT-ILMN TruSeq DNA UD Indexes - 96 Indexes</p> <p>IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes</p> <p>TruSeq Exome - 8 rxn x 3 6 9 plex</p> <p>TruSeq Exome - 8 rxn x 12 plex</p> <p>TruSeq DNA CD Indexes - 96 Indexes</p> <p>TruSeq DNA Single Indexes Set A B</p>

	<p>TruSeq DNA Single Indexes Set A TruSeq DNA Single Indexes Set B 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)</p>
<p>TruSeq Nano DNA</p>	<p>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 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 (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)</p>
<p>TruSeq Stranded mRNA</p>	<p>IDT-ILMN TruSeq RNA UD Indexes - 24 Indexes IDT-ILMN TruSeq RNA UD Indexes - 96 Indexes IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes TruSeq RNA CD Indexes 96 Indexes TruSeq RNA Single Indexes Set A B TruSeq RNA Single Indexes Set A TruSeq RNA Single Indexes Set B 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)</p>
<p>TruSeq Stranded Total RNA</p>	<p>IDT-ILMN TruSeq RNA UD Indexes - 24 Indexes IDT-ILMN TruSeq RNA UD Indexes - 96 Indexes IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes TruSeq RNA CD Indexes 96 Indexes TruSeq RNA Single Indexes Set A B TruSeq RNA Single Indexes Set A TruSeq RNA Single Indexes Set B IDT-ILMN Nextera DNA UD Indexes Set A - 96 Indexes (Removed) IDT-ILMN Nextera DNA UD Indexes Set B - 96 Indexes (Removed)</p>

	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)

DEFECT REPAIRS:

- Fixed the discrepancy of the FASTQ data generation.
- Fixed issue where Sample table grid is not aligned with the Sample Number column as higher sample number are added. This issue is fixed on Local Run Manager Framework v3.2 or higher.

KNOWN ISSUES:

Same as previous release v3.0.

During Module update, library prep kit and index that were no longer supported still persist. Workaround in previous release notes is not applicable.

PREVIOUS RELEASE NOTES

DNA ENRICHMENT MODULE v3.0

Introduction

These Release Notes detail notable items for the Local Run Manager DNA Enrichment Analysis Module v3.0 release.

Please note that the DNA Enrichment Analysis Module v3.0.1 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 DNA Enrichment Analysis Module Workflow Guide, available from the [Local Run Manager Support Page](#), Documentation & Literature.

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 on a separate line 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.

Updated Library Prep Kit names with corresponding Index Adapter Kits.

old name	new name
Nextera Flex for Enrichment	Illumina DNA Prep with Enrichment

Library Prep Kits	Index Kits
Illumina DNA Prep with Enrichment	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
	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

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.

Removed html and js folders under the Module directory UI folder.

Windows 10 integration updates.

DEFECT REPAIRS:

- Fixed issue where Samples Output Sheet and Results page were at an incorrect order.
- Missing variants reported on chr17 are now called correctly.

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 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 a genome in the Genome Repository has one or more subfolders with a .fa file, you will see multiple occurrences of the same genome in the genome dropdown.

- 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.

DNA ENRICHMENT MODULE V2.0

NEW FEATURES:

- Added support for processing datasets generated from iSeq 100, MiniSeq, MiSeq, and NextSeq 550 sequencing systems.
- Added support for importing and exporting Sample Sheet files on the Run Setup page.
- Added support for the following Library Prep Kits:
 - IDT-ILMN TruSeq DNA-RNA UD Indexes 24 Indexes
 - IDT-ILMN TruSeq DNA-RNA UD Indexes 96 Indexes
 - Nextera DNA CD Indexes – 24 Indexes Tubed
 - Nextera DNA CD Indexes – 96 Indexes Plated
- Added support for entering custom index sequences directly on the Run Setup page.
- Added support for the following special characters to be used as part of the "Run Name" and "Run Description" on the Run Setup page:
` ~ ! @ # \$ % - _ { }
- Increased the maximum number of samples on the Run Setup page from 384 to 1536.

DEFECT REPAIRS:

- Fixed an issue where the HTML report file incorrectly listed the software version numbers of Picard and GATK as "NA".

KNOWN ISSUES:

- None