

# **Illumina Experiment Manager (IEM) Software v1.19.1**

## **Release Notes**

***For MiniSeq, MiSeq, NextSeq 500/550, HiSeq, and  
NovaSeq 6000 Systems***

## Introduction

These Release Notes detail the key changes to Illumina Experiment Manager (IEM) between the specific versions listed in the table below:

<b>Software Application</b>	<b>Prior Version</b>	<b>New Version</b>
<i>Illumina Experiment Manager</i>	1.18.1	1.19.1

To install the new version of IEM, uninstall the previous version of IEM that is currently installed in your system.

1. From Operating System, select **Start Menu, Control Panel**, and then **Programs and Features** to uninstall any prior version of IEM.
2. Ensure that the Illumina Experiment Manager folder is empty from C:\Program Files (x86)\Illumina\Illumina Experiment Manager. If files are present after uninstall process, delete the Illumina Experiment Manager folder.
3. Install the new version of IEM.

## ILLUMINA EXPERIMENT MANAGER V1.19.1 RELEASE NOTES

### NEW FEATURES:

- Added support for the following Library Prep Kits:
  - Illumina DNA PCR-Free 2x149
  - Illumina DNA PCR-Free 2x151
  - Illumina Stranded Total RNA
  - Illumina Stranded mRNA
  - Illumina RNA Prep with Enrichment
  - Illumina DNA Prep
  - Illumina DNA Prep with Enrichment.
  
- Added support for the following Index Adapter Kits:
  - 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
  - IDT-Ilmn RNA UD Indexes SetA Ligation
  - IDT-Ilmn RNA UD Indexes SetB Ligation
  - IDT-Ilmn RNA UD Indexes SetC Ligation
  - IDT-Ilmn RNA UD Indexes SetD Ligation

- IDT-Ilmn RNA UD Indexes SetA-D Ligation
- IDT-Ilmn DNA-RNA UD Indexes SetA
- IDT-Ilmn DNA-RNA UD Indexes SetB
- IDT-Ilmn DNA-RNA UD Indexes SetC
- IDT-Ilmn DNA-RNA UD Indexes SetD
- IDT-Ilmn DNA-RNA UD Indexes SetA-D
- IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes
- Removed Nextera DNA Flex and Nextera Flex from Enrichment Library Prep Kits selection.
- Added functionality to enable custom primer boxes by default in workflow settings for the IDT-Ilmn DNA-RNA UD Indexes Tagmentation - ILMN PCR-Free kits for the following platforms:
  - MiSeq
  - HiSeq
  - NovaSeq
- Added custom primer reminder for IDT-Ilmn DNA-RNA UD Indexes Tagmentation - ILMN PCR-Free kits.
- Updated the following Library Prep Kits to support the IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes index kit:
  - TruSeq Nano DNA
  - TruSeq Stranded mRNA
  - TruSeq DNA Exome Enrichment
  - TruSeq ChIP-Seq
  - TruSeq RNA v2
  - TruSeq Stranded Total RNA
  - TruSeq RNA Access
  - TruSeq DNA PCR-Free
- Added support for solution-based indexing for NovaSeq workflows:
  - Added options for Consumable v1 and v1.5.
  - Added functionality to reverse complement i5 indexes when consumable v1.5 is selected.
- Updated UMI Index Anchor checkbox value to be unselected as a default. Option is configurable only for IDT-Ilmn DNA-RNA UD Tagmentation and IDT-Ilmn RNA UD Ligation index kits.
- Updated to support new IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes index kits.
- Updated the following index kits with new library prep to index kit compatibility:
  - IDT-ILMN TruSeq RNA UD Indexes v2 - 96 Indexes

- IDT-ILMN TruSeq DNA UD Indexes v2 - 96 Indexes

**DEFECT REPAIRS:**

- Fixed an issue where NovaSeq sample sheets could not be edited.

**KNOWN ISSUES:**

- For NovaSeq sample sheet edit, consumable version is not automatically pre-selected.
- The "Variant Quality Cutoff" setting does not get populated with the correct value when editing a Sample Sheet that contains the "VariantFilterQualityCutoff" setting.
- The "NovaSeq XP workflow" checkbox becomes unchecked whenever a "Library Prep Workflow" is selected.
- The appearance of the software's user interface may be distorted when the Windows operating system display settings are configured to use enlarged font sizes. To remedy this, change the Windows font size display settings to 100%.
- If a sample sheet with .csv format is uploaded, the settings fields are not populated in the application.

## PREVIOUS RELEASED VERSIONS:

### ILLUMINA EXPERIMENT MANAGER V1.18.1 RELEASE NOTES

#### NEW FEATURES:

- Added support for the following Index Kits:
  - AmpliSeq CD Indexes (384)
  - AmpliSeq UD Indexes (24)
  - IDT-ILMN Nextera DNA UD Indexes (384 Indexes)
  - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set A
  - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set B
  - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set C
  - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set D
- Updated the following Library Prep Kits to allow the new Nextera Index Kits
  - Nextera Flex for Enrichment
  - Nextera XT
  - Nextera DNA Flex
  - TruSeq Nano DNA
  - TruSeq Stranded mRNA
  - TruSeq DNA Exome Enrichment
  - TruSeq ChIP-Seq
  - TruSeq RNA v2
  - TruSeq Stranded Total RNA
  - TruSeq RNA Access
- Enforced usage of UMI Index Anchor Settings when using new Index Kits with the following library prep kits:
  - TruSeq Nano DNA
  - TruSeq Stranded mRNA
  - TruSeq DNA Exome Enrichment
  - TruSeq ChIP-Seq
  - TruSeq RNA v2
  - TruSeq Stranded Total RNA
  - TruSeq RNA Access
- Added support for multi-plated index kits.
- Renamed AmpliSeq Library Prep Kit to AmpliSeq Library PLUS for Illumina.

**DEFECT REPAIRS:**

- None

**KNOWN ISSUES:**

- The "Variant Quality Cutoff" setting does not get populated with the correct value when editing a Sample Sheet that contains the "VariantFilterQualityCutoff" setting.
- The "NovaSeq XP workflow" checkbox becomes unchecked whenever a "Library Prep Workflow" is selected.
- The appearance of the software's user interface may be distorted when the Windows operating system display settings are configured to use enlarged font sizes. To remedy this, change the Windows font size display settings to 100%.
- If a sample sheet with .csv format is uploaded, the settings fields are not populated in the application.