



# **Local Run Manager**

## **RNA Fusion Analysis Module v2.0**

### **Release Notes**



## Introduction

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

Please note that the RNA Fusion Analysis Module v2.0 requires Local Run Manager Framework v2.0.0 or higher and is not compatible with Local Run Manager Framework v1.3.1 or lower.

The Local Run Manager software is an integrated solution for recording samples for a run, specifying run parameters, monitoring run status, performing data analysis, The Local Run Manager RNA Fusion analysis module aligns reads against a specified reference using the STAR aligner, and then detects gene fusions using Manta. This workflow is designed specifically for RNA libraries prepared with the TruSight RNA library preparation kit.

For more information about this analysis module and how to use it, refer to the Local Run Manager RNA Fusion 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](http://support.illumina.com/sequencing/sequencing_software/local-run-manager/documentation.html)

### NEW FEATURES:

- Added support for processing datasets generated from MiniSeq, MiSeq, and NextSeq 550 sequencing systems.
- Added support for importing and exporting Sample Sheet files on the Run Setup page.
- 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 to 1536.
- Change Sample ID maximum to 30 characters
- Validate chemistry type.
- Apply a filter for RNA only genomes.
- Added Readme file with used open source software license agreements.
- Added analysis sufficient disk space check.
- Module Installer enhancements
  - Update user credentials page text to be more descriptive and easier to read.
  - Update Success, Failure, and Cancel headings.
- Support module uninstallation without Local Run Manager installed.



#### DEFECT REPAIRS:

- Restart Local Run Manager Analysis Service on software installation

#### KNOWN ISSUES:

- The sample reports are being reordered in the Samples and Results tab
- If multiple module versions installed, downgrading .EXE installer does not revert to the last active version
- Custom Primers don't update in the Local Run Manager run if they are updated in the Control Software.
- Not checking if the HumanRNAFusion genome is present before allowing the user to save the run
- Alignment fails when STAR uses >20 CPU cores
- 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.