Custom Module: RNA QC Plots

Version: 1.0.0

Description: Summarize the output of CosMx SMI Quality Control (RNA) results in flowcell-level plots and an output csv file. Must be run following the Quality Control (RNA) module. Compatible with AtoMx SIP Cloud Platform v1.2 and higher.

Setup:

|  |  |  |  |
| --- | --- | --- | --- |
| R version | CPU cores | RAM (GB) | Max run (h) |
| Any | 16 | 128+ | 4+ |

\* RAM and Max run time listed above are suggested minimums. Values may be increased (note that increasing RAM or Max run time may increase costs). If the module exceeds either value, it will immediately fail.

Variables: None

Packages: None

Outputs: To access the output (6 PNG files and one CSV file), click the image icon on the successfully executed RNA QC Plot module in the Pipeline Structure panel.

1. Mean\_NegProbeCount\_per\_Cell\_per\_FOV.png
2. Mean\_SystemControlCount\_per\_Cell\_per\_FOV.png
3. Mean\_Transcripts\_Per\_FOV.png
4. Mean\_Unique\_Transcripts\_per\_Cell\_per\_FOV.png
5. Number\_Cells\_per\_FOV.png
6. Total\_Transcripts\_Per\_FOV.png
7. Per\_FOV\_data\_quality\_metrics.csv