



BeadStudio Gene Expression Module Custom Output Report Plug-in v1.0.0

1. Introduction

The Illumina BeadStudio Gene Expression Module Custom Output Report Plug-in, a software plug-in that works with the GX Module v3.3 and above, allows you to create input files for downstream applications and analysis. The GX Custom Report Plug-in allows you to configure several report parameters including output columns and sample display (rows or columns). Using the GX Custom Output Report Plug-in, you can create input files for use with eQTL (Expression Quantitative Trait Loci) tools such as the Merlin Input Report.

2. Installing the GX Custom Output Report Plug-in

Perform the following steps to install the GX Custom Output Report Plug-in on your computer:

1. Download the GX Custom Output Report Plug-in setup program (*.msi) from the illumina•connect website, <http://www.illumina.com/illuminaconnect>, or from the BeadStudio Portal.
2. Run the GX Custom Output Report Plug-in setup program.
The GX Custom Output Report Plug-in is installed on your computer.

3. Using the GX Custom Output Report Plug-in

Perform the following steps to create a GX Custom Output Report:

1. In BeadStudio, open a Gene Expression project.
2. In the GX Module main menu, select **Analysis | Reports**.
The BeadStudio Gene Expression dialog box appears.
3. In the BeadStudio Gene Expression Reports dialog box, select **Custom Report** and choose **GX Custom Output Report** from the dropdown menu.
4. If desired, browse to your config file and adjust the algorithm input parameters.
The table on the next page of this document includes descriptions of the input parameters.
5. Click **OK** to start the report.
A progress bar shows the status of the report.
When the report has finished processing, a dialog box asking "**Would you like to view this report?**" appears.
6. Click **Yes** to display a text file showing the location of the output file.
Note: The report output file may be too large to display in your default text file viewer. If this is the case, you can open the report output file using WordPad.



4. Configuring the GX Custom Output Report

The GX Custom Output Report format can be changed via an editable configuration file. When you install the Custom Output Report Plug-in, the config file is installed on your computer in this location:

<C:\Program Files\Illumina\BeadStudio2.0\Modules\BSGX\ReportPlugins\GXCustomOutputReport\>

Note: When you modify and save the default config file, changes are preserved for future sessions.

The following table contains configuration settings for GX Custom Output Reports.

Parameter Name	Description	Default Value
AnnotationFileColumns	Columns to be included in the tab-delimited annotation file	PROBE_ID, SYMBOL, CHROMOSOME, PROBE_COORDINATES, PROBE_CHR_ORIENTATION
CreateAnnotationFile	If set to true, creates a separate annotation file in addition to the matrix format data file	True
DataTableName	Name of the GX data table to use	Sample Probe Profile
DataTableColumns	Columns to be included in comma-delimited report; the first entry should be an ID column, such as PROBE_ID	PROBE_ID,AVG_Signal
SamplesInRows	For output with samples in rows, set to true; for samples in columns, set to false	True
TabDelimited	For tab-delimited output, set to true; for comma-delimited, set to false	True

5. Technical Support

Direct questions about the BeadStudio Gene Expression Module Custom Output Report Plug-in to Illumina Technical Support at techsupport@illumina.com or +1.800.809.4566.

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