



ArrayExpress Data Submission Report Plug-in v2.0.0 for the GenomeStudio™ Gene Expression Module

1. Introduction

The ArrayExpress Data Submission Report Plug-in is a software library that works with Illumina's GenomeStudio Gene Expression (GX) Module, v1.0 and higher. This plug-in is intended to facilitate submitting data from the GenomeStudio GX module to the ArrayExpress public microarray database.

2. Installing the ArrayExpress Data Submission Report Plug-in

1. Download the ArrayExpress Data Submission Report Plug-in from one of the following locations:

- The Downloads area of the Illumina [iCom](#) website
- The GenomeStudio Portal

The setup program places the plug-in DLL into the directory [C:\Program Files\Illumina\GenomeStudio\Modules\BSGX\ReportPlugins\GXDataSubmissionReports](#).

2. Run the setup program for the plug-in.
3. Follow the instructions in the installation prompts.

3. Using the ArrayExpress Data Submission Report Plug-in

1. Using GenomeStudio GX v1.0 or higher, open a GX project.
2. In the GenomeStudio main menu, select **Reports**.
3. Select **Custom Report**.
4. From the dropdown list, select **ArrayExpress Submission Report**.
5. Adjust the report parameters if desired.

Note: The default report parameters should already be correct for submitting data to ArrayExpress.

6. Click **OK**.

A progress dialog is shown while the report is being generated. When the report is complete, a dialog asking "Would you like to view this report?" appears.

7. Click **Yes**.

A text file containing a link to the report output directory, and with useful links to the ArrayExpress website, opens on your desktop.



4. Additional Information

- 4.1. The Sample Probe Profile Table is used to create the ArrayExpress Data Submission Report.
- 4.2. The ArrayExpress Data Submission Report Plug-in creates two tab-delimited reports in your GX project directory:
 - The ArrayExpress_ExperimentSummaryFile is a TAB2MAGE format file that contains information about the samples and experiment.
 - The ArrayExpress_DataFile is a tab delimited file that contains the probe IDs and corresponding data for each sample.
- 4.3. These reports supply only information that is available from the GenomeStudio software. You must manually enter all other information that you want to include in this report.
- 4.4. PROBE_ID is the unique identifier for all probes.
- 4.5. ArrayExpress requires you to submit both raw and normalized data. Please run the report plug-in for the raw analysis and submit the raw analysis files including the name of the supplementary transformed data file in the appropriate fields in the Experiment Summary File.
- 4.6. Submit the completed Tab2MAGE spreadsheet and ArrayExpress_DataFile to ArrayExpress using the Tab2MAGE submission web page:
<http://www.ebi.ac.uk/cgi-bin/microarray/tab2mage.cgi>.
- 4.7. For general information about submitting data to the ArrayExpress public microarray database, consult the ArrayExpress submissions web page:
<http://www.ebi.ac.uk/microarray/submissions.html>.

5. Technical Support

Direct questions related to installing and using the ArrayExpress Data Submission Report Plug-In to Illumina Technical Support (techsupport@illumina.com or +1-800-809-4566). Direct questions about submitting data to the ArrayExpress public microarray database to miamexpress@ebi.ac.uk.

6. Version History

Release v2.0.0 for GenomeStudio, Build Date 03/17/09

Release v1.0 for BeadStudio, Build Date 11/26/07

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