



GEO Data Submission Report Plug-in v1.0 for the BeadStudio Gene Expression Module

1. Introduction

The GEO Data Submission Report Plug-in is a software library that works with Illumina's BeadStudio Gene Expression (GX) Module, v3.2 and higher. This plug-in is intended to facilitate submitting data from the BeadStudio GX module to the GEO public microarray database.

2. Installing the GEO Data Submission Report Plug-in

1. Download the GEO Data Submission Report Plug-in from one of the following locations:
 - The Downloads area of the Illumina [iCom](#) website
 - The BeadStudio Portal

The setup program places the plug-in DLL into the directory C:\Program Files\Illumina\BeadStudio 2.0\Modules\BSGX\ReportPlugins\GXDataSubmissionReports.

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

3. Using the GEO Data Submission Report Plug-in

1. Using BeadStudio GX v3.2 or higher, open a GX project.
2. In the BeadStudio main menu, select **Reports**.
3. Select **Custom Report**.
4. From the dropdown list, select **GEO Submission Report**.
5. Adjust the report parameters if desired.

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

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 (project repository) opens on your desktop. This text file includes a link to the GEO web site.

4. Additional Information

- 4.1. The GEO Data Submission Report Plug-in creates tab-delimited reports in your GX project directory.



- 4.2. These reports supply only information that is available from BeadStudio. You must manually enter all other information that you want to include in this report.
- 4.3. PROBE_ID is the unique identifier for all probes.
- 4.4. GEO requires you to submit both raw and normalized data. Please run the report plug-in for the normalized analysis and include the name of the supplementary raw data file in the appropriate fields in the GEOarchive_Metadata file.
- 4.5. For general information about submitting data to the GEO public microarray database, consult the GEOarchive submission instructions web page at <http://www.ncbi.nlm.nih.gov/projects/geo/info/spreadsheet.html>.

5. Technical Support

Direct questions related to installing and using the GEO Data Submission Report Plug-in to Illumina Technical Support (techsupport@illumina.com or +1-800-809-4566). Direct questions about submitting data to the GEO public microarray database to geo@ncbi.nlm.nih.gov.

6. Version History

Initial Release v1.0, Build Date 11.26.07.

© 2008 Illumina, Inc. All rights reserved.

Illumina, Solexa, Making Sense Out of Life, Oligator, Sentrix, GoldenGate, DASL, BeadArray, Array of Arrays, Infinium, BeadXpress, VeraCode, IntelliHyb, iSelect, and CSpPro are registered trademarks or trademarks of Illumina. All other brands and names contained herein are the property of their respective owners.