Import gene expression data

This user guide describes how to export gene expression data using Partek's Report Plug-in for Illumina GenomeStudio Gene Expression Module for use in Partek Genome Suite. The GenomeStudio plug-in lets you export data into a project that can be directly opened in Partek Genomics Suite. It is the fastest and most consistent way to get fully annotated Illumina gene expression data into Partek Genomics Suite.

Partek Gene Expression plug-in installation

Download the plug-in zip file, unzip the file, there is a folder called **PartekReport** which contains two .dll files --**Partek.Common.dll** and **Partek.GeneExpression.GenomeStudio.dll**, move the **PartekReport** folder to

C:\Program Files (x86)\Illumina\GenomeStudio\Modules\BSGX\ReportPlugins, if there is no **ReportPlugins** folder in **BSGX** folder, create one, the path and folder names have to be exactly match one described above (Figure 1).

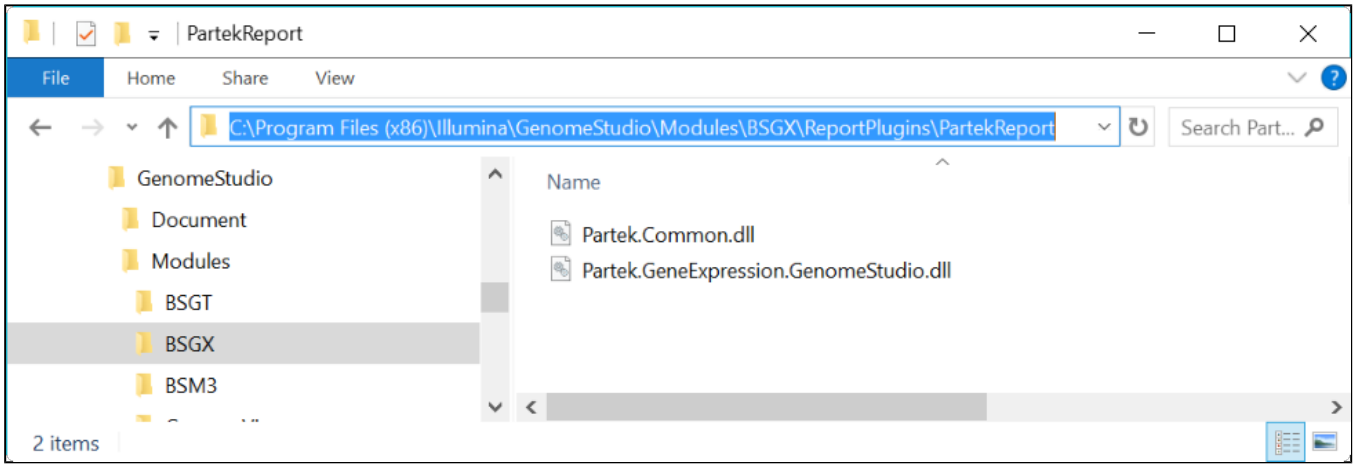

Figure 3. Place PartekReport folder in the appropriate direcotry

Export report from GenomeStudio

In GenomeStudio gene expression project:

- Choose **Analysis > Reports...** from the main menu
- Select **Custom Report** and choose **Partek Report Plug-in** from the drop-down list
- Specify *AnnotationName*, do NOT include **<>** in the name, you can the same name as the .bgx file you imported the data with, or a unique name to your dataset
- Choose *Type* by clicking on the cell, default is **gene** level
- Leave all the others as default value (Figure 2)
- Specify the report file name, we recommend to put the exported files in their own folder, which allows you to move the folder instead of all the files individually.
- Click **OK**

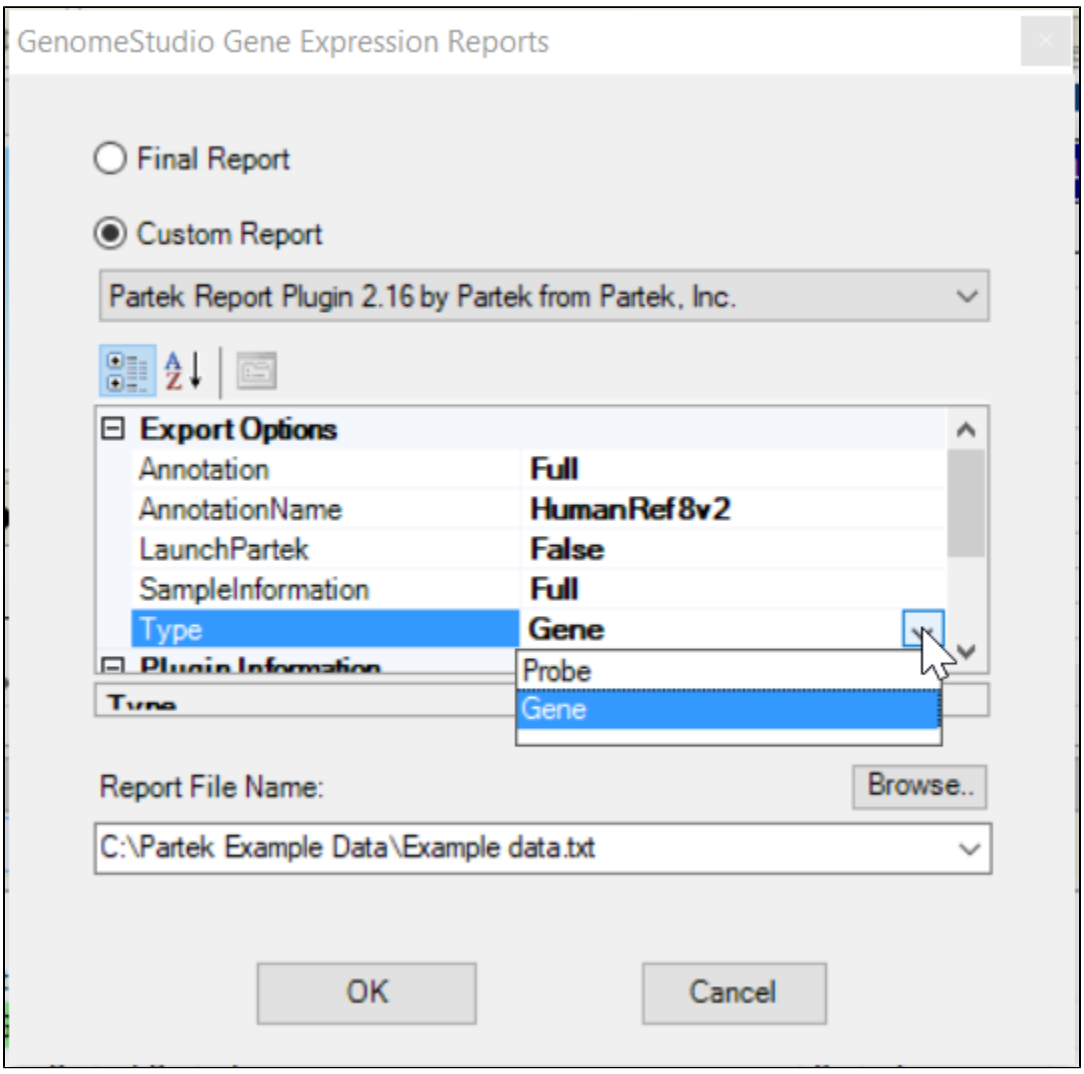

Figure 4. Configuring the GenomeStudio gene expression report dialog

There are five files exported, including a project file (.ppj), which can be opened directory in Partek Genomic Suite. The project file opens the signal intensities data in a spreadsheet and associates the annotation information to the intensity spreadsheet. All intensities are log2 transformed. If there are negative values in the AVG_Signal, the data will be shifted to the lowest value one and then log2 transformed.

Open project in Partek Genomics Suite

To open the report, launch Partek Genomics Suite, choose **File > Open Project**, browse to the .ppj file to open. In the Gene Expression workflow, you can proceed add sample attribute step.

Additional Assistance

If you need additional assistance, please visit our support page to submit a help ticket or find phone numbers for regional support.

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