

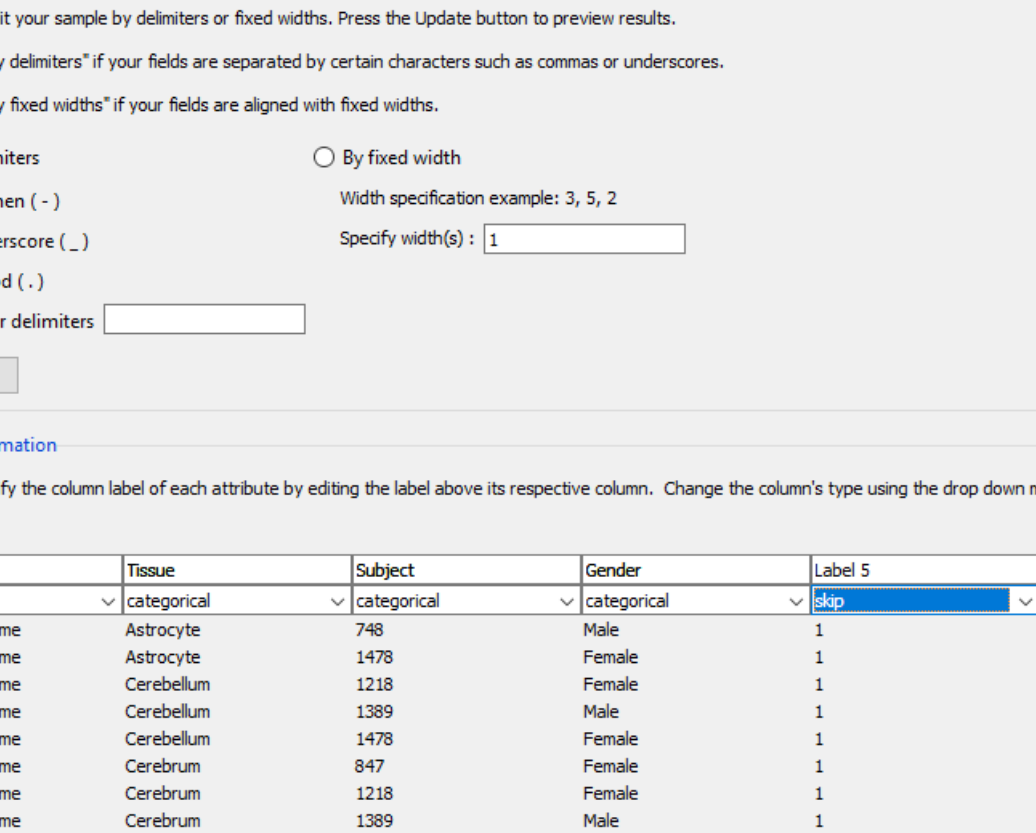
Adding sample information

Twenty-five CEL files (samples) have been imported into Partek Genomics Suite. Sample information must be added to define the grouping and the goals of the experiment.

- Select **Add Sample Attributes** in the *Import* section of the *Gene Expression* workflow panel
- Choose the option **Add Attributes from an Existing Column**
- Select **OK** to open the *Sample Information Creation* dialog

In this tutorial, the file name (e.g., Down Syndrome-Astrocyte-748-Male-1-U133A.CEL) contains the information about a sample and is separated by hyphens (-). Choosing to split the file name by delimiters will separate the categories into different columns

- In the *Sample Information* panel, specify the column labels (*Labels 1-4*) as **Type**, **Tissue**, **Subject**, and **Gender**, set each as **categorical**, and set the other columns as **skip** (Figure 1). Select **OK**



Sample Information Creation

Please specify how you want to split the column

Choose to split your sample by delimiters or fixed widths. Press the Update button to preview results.

- Choose "By delimiters" if your fields are separated by certain characters such as commas or underscores.
- Choose "By fixed widths" if your fields are aligned with fixed widths.

☒ By delimiters
 ☐ By fixed width

☒ Hyphen (-)
 ☒ Underscore (_)
 ☒ Period (.)
 ☐ Other delimiters

Width specification example: 3, 5, 2

Specify width(s) :

Sample Information

You can specify the column label of each attribute by editing the label above its respective column. Change the column's type using the drop down menu above each column.

Type	Tissue	Subject	Gender	Label 5	Label 6
categorical	categorical	categorical	categorical	skip	skip
Down Syndrome	Astrocyte	748	Male	1	U133A
Down Syndrome	Astrocyte	1478	Female	1	U133A
Down Syndrome	Cerebellum	1218	Female	1	U133A
Down Syndrome	Cerebellum	1389	Male	1	U133A
Down Syndrome	Cerebellum	1478	Female	1	U133A
Down Syndrome	Cerebrum	847	Female	1	U133A
Down Syndrome	Cerebrum	1218	Female	1	U133A
Down Syndrome	Cerebrum	1389	Male	1	U133A
Down Syndrome	Cerebrum	1478	Female	1	U133A

OK Cancel

Figure 4. Configuring the Sample Information Creation dialog

- A dialog window asking if you would like to save the spreadsheet with the new sample attribute will appear. Select **Yes**
- Make column 5 (*Subject*) random by right-clicking on the column header and selecting **Properties** from the pop-up menu (Figure 2).

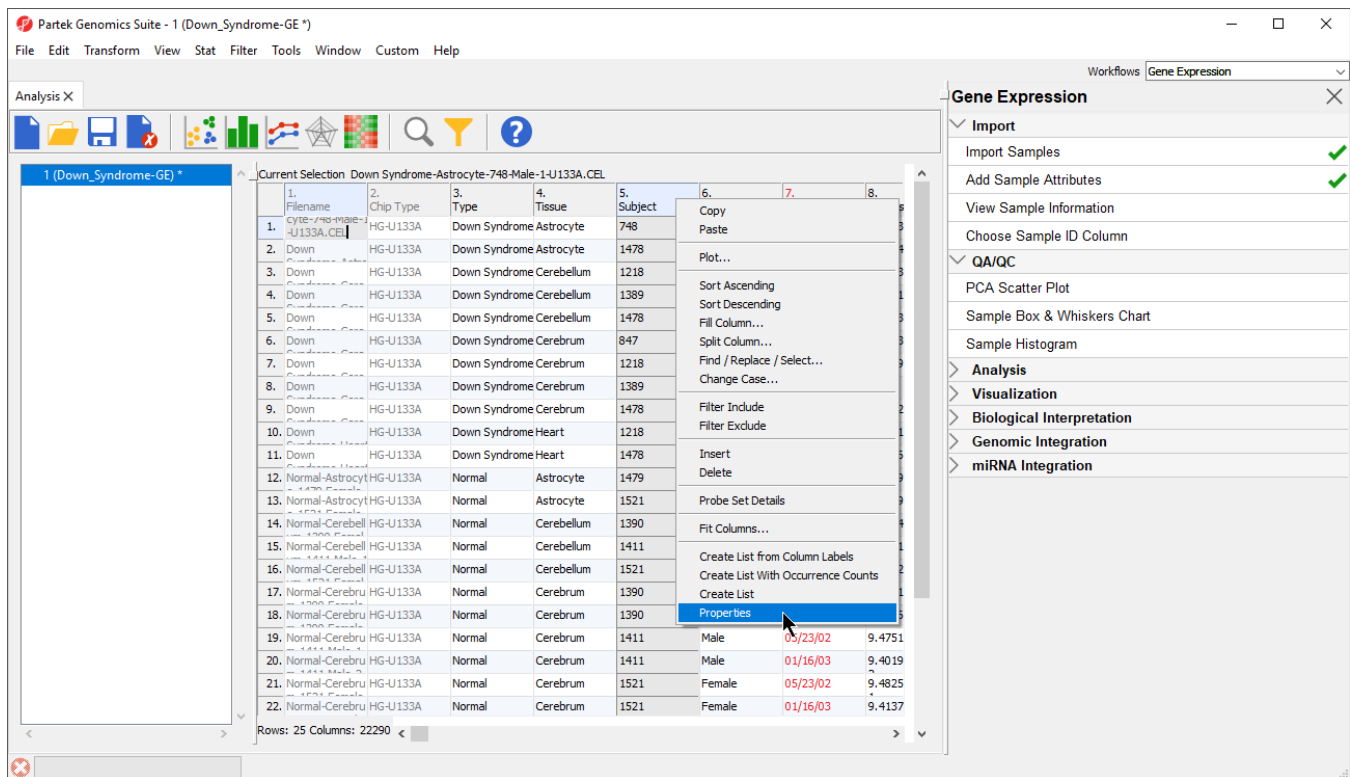


Figure 5. Changing column properties

- Select the **Random Effect** check box from the *Properties* dialog (Figure 3) then select **OK**.

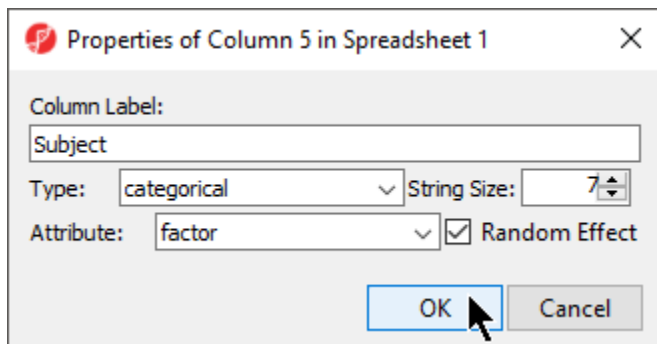


Figure 6. Setting column to Random Effect

The column 5. (*Subject*) will now be colored red, indicating that it is a random effect.

- To save changes to the spreadsheet, select the **Save Active Spreadsheet** icon (). Spreadsheets with unsaved changes have an asterisk next to their name in the spreadsheet tree.

Note: More details on *Random vs. Fixed Effects* can be found later in this tutorial under the section [Identifying differentially expressed genes using ANOVA](#).

« [Importing Affymetrix CEL files](#) [Exploring gene expression data](#) »

Additional Assistance

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



Your Rating: Results: 36 rates