

Importing a text file list

The preferred method for importing a generic data spreadsheet into Partek® Genomics Suite® is as a text file. Here, we illustrate importing a list of genes with p-value and fold-change from an experiment comparing two conditions.

- Select **File** from the main toolbar
- Select **Import**
- Select **Text (.csv .txt)...**
- Select the text file using the file browser to launch the *Import .txt, .tsv, or .csv File* dialog

The *File Type* section of the *Import* dialog includes a preview of the text file and import options (Figure 1).

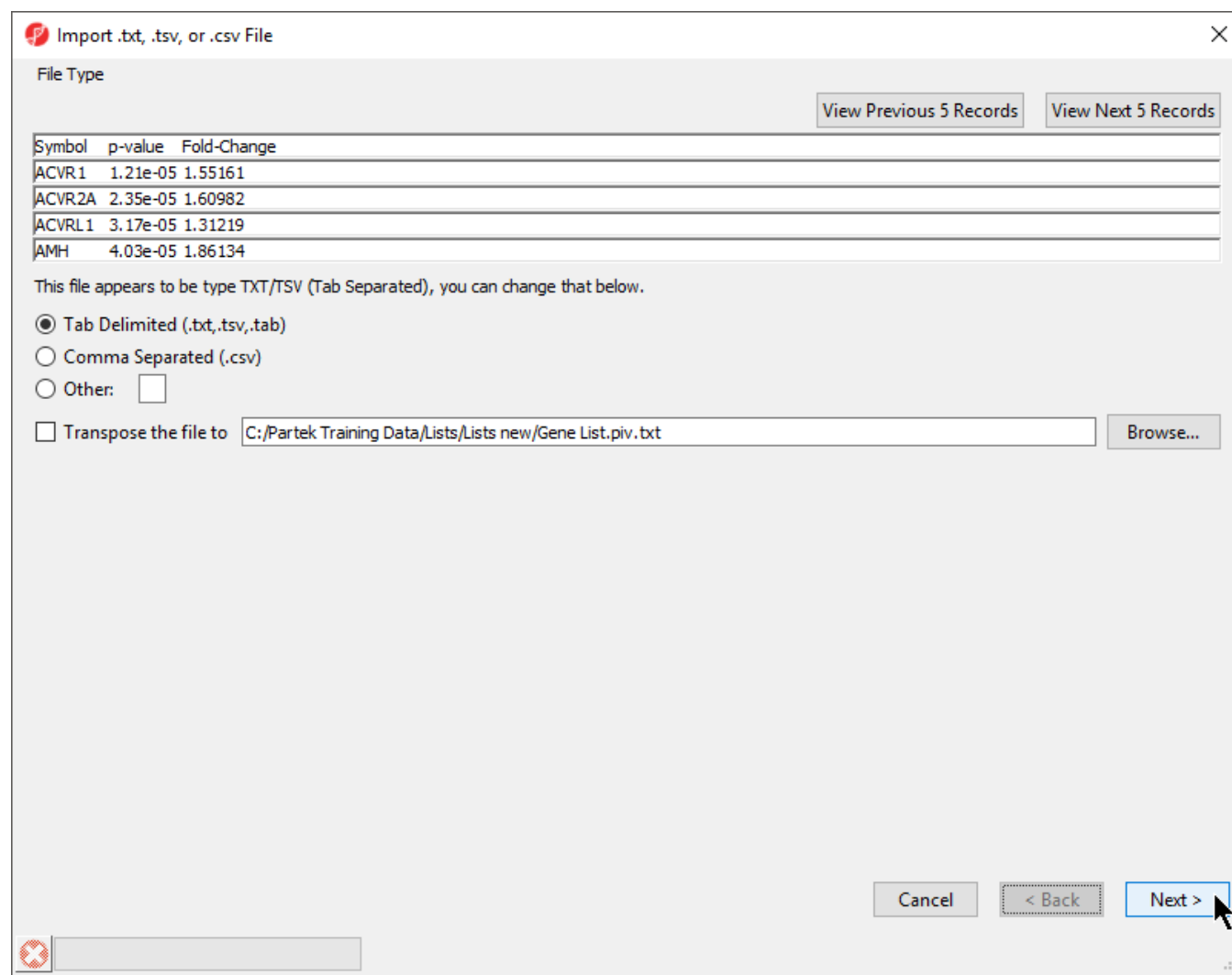


Figure 8. *Import .txt, .tsv, or .csv file dialog*

The columns in the import file can be separate by a tab, comma, or any other character.

For most applications, the items on the list should be in rows while attributes or values should be in columns. If a list is oriented with items on columns, select **Transpose the file to** to import a transposed spreadsheet.

- Select **Next >** to move to the *Data Type* section
- Select your data type; here we have chosen **Genomic Data** because it is a gene list (Figure 2)

We have also deselected **Is the data log transformed (LOG_base (x+offset)) ?**

Import .txt, .tsv, or .csv File

Data Type

View Previous 5 Records

View Next 5 Records

Symbol	p-value	Fold-Change
ACVR1	1.21e-05	1.55161
ACVR2A	2.35e-05	1.60982
ACVRL1	3.17e-05	1.31219
AMH	4.03e-05	1.86134

What type of data is this file?

☒ Genomic data
 ☐ Other

☐ Is the data log transformed (LOG_base (x+offset)) ?
 Base

2

 Offset

0.0

Cancel

< Back

Next >

Figure 9. Selecting the data type

Selecting **Genomic Data** will open a dialog after import to configure properties for the imported list including selecting the type of genomic data, the location of genomic features in the spreadsheet, the annotation column with gene symbols, the chip or reference source and annotation file, the species, and reference genome build.

- Select **Next >**

The next step is to identify where the data starts and where the optional header is found using *Identify Column Labels, Start of Data* (Figure 3). The line that contains the header (if present) must precede the data. If there are lines to be skipped in the file (like comments), they may only appear at the top of the file, before the header line or data begin.

Import .txt, .tsv, or .csv File

Identify Column Labels, Start of Data

Specify where the column labels (if any) and data begin.
(Skip over header information (if any)).

☒ Col Lbls ☐ Begin Data

View Previous 5 Records View Next 5 Records

1.	<input checked="" type="radio"/>	<input type="radio"/>	Symbol p-value Fold-Change
2.	<input type="radio"/>	<input checked="" type="radio"/>	ACVR1 1.21e-05 1.55161
3.	<input type="radio"/>	<input type="radio"/>	ACVR2A 2.35e-05 1.60982
4.	<input type="radio"/>	<input type="radio"/>	ACVRL1 3.17e-05 1.31219
5.	<input type="radio"/>	<input type="radio"/>	AMH 4.03e-05 1.86134

Missing Data Representation

If this file contains missing values that have a special symbol, you must specify that symbol here:

?

Cancel < Back Next >

Figure 10. Identifying column labels and start of data

If there are many comment lines at the start of the file, you may need to select **View Next 5 Records** to get to the row that contains the column header. If you accidentally move past the screen that contains the header or data rows, select **View Previous 5 Records**.

If there are missing numerical values or empty cells in your input list, insert a special character or symbol (?, N/A, NA, etc.) in the missing cells; you will specify the character in the *Missing Data Representation* section of the dialog, only one symbol can be used to represent missing values, the default missing value indicator is ?.

- If a header row is present, select **Col Lbls** to allow you to select a column header row
- Select the row where the data begins using the *Begin Data* selector
- If any cells have a missing value, you can signify this with a special symbol selected using the *Missing Data Representation* panel
- Select **Next >**

The *Preview text encoding* section (Figure 4) previews the first five lines of the file, allowing you to check if the text encoding is correct.

- If the text does not appear properly, use the *Specify the text encoding*: drop-down menu to choose the correct encoding

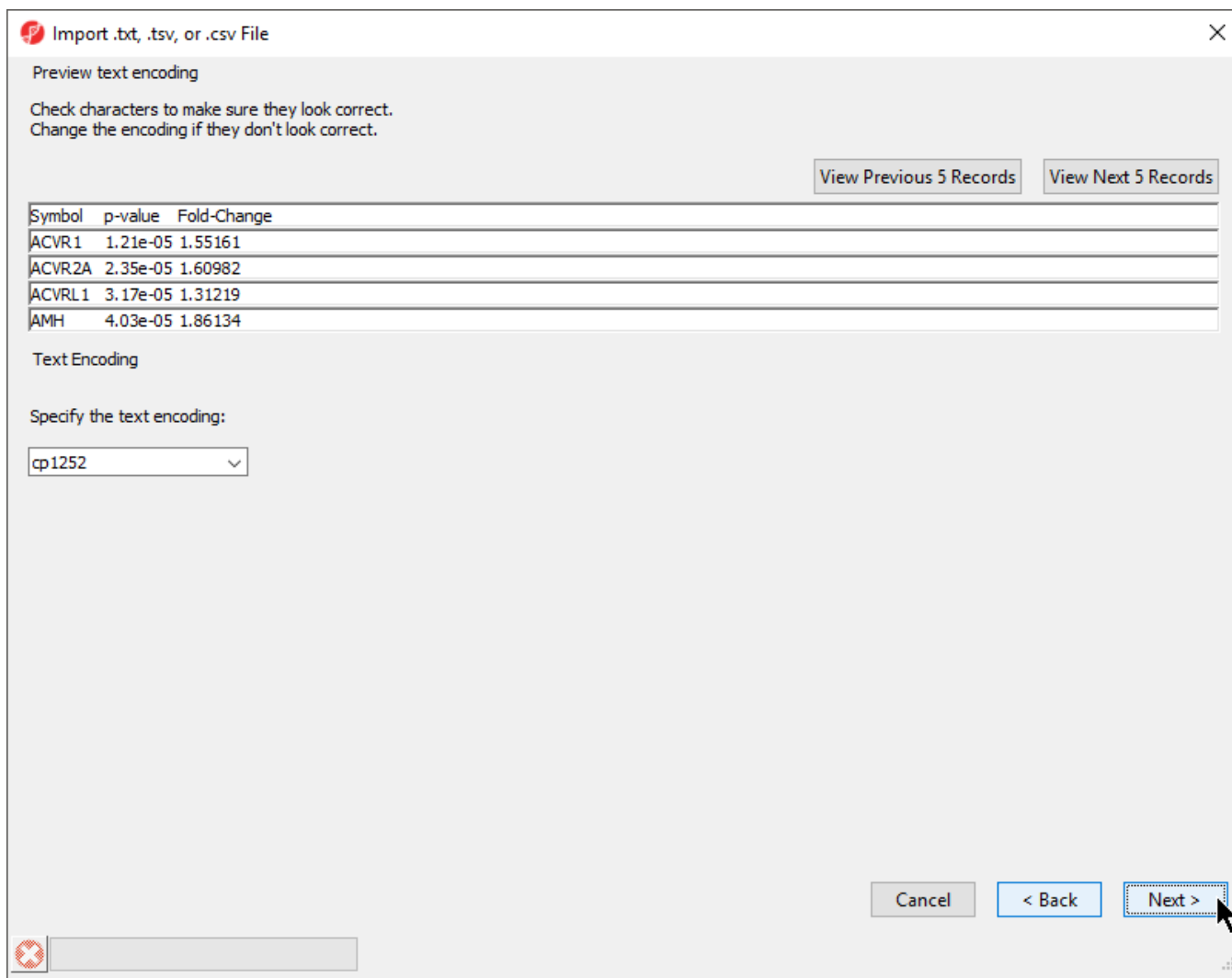


Figure 11. Previewing text encoding

- Select **Next >**

The final section of the *Import .txt, .tsv, or .csv File* dialog is *Verify Type & Attribute of Data Columns* (Figure 5). While data column type and attribute can be modified after import, it is easier and faster to select the proper options during import as multiple columns may be selected during this dialog.

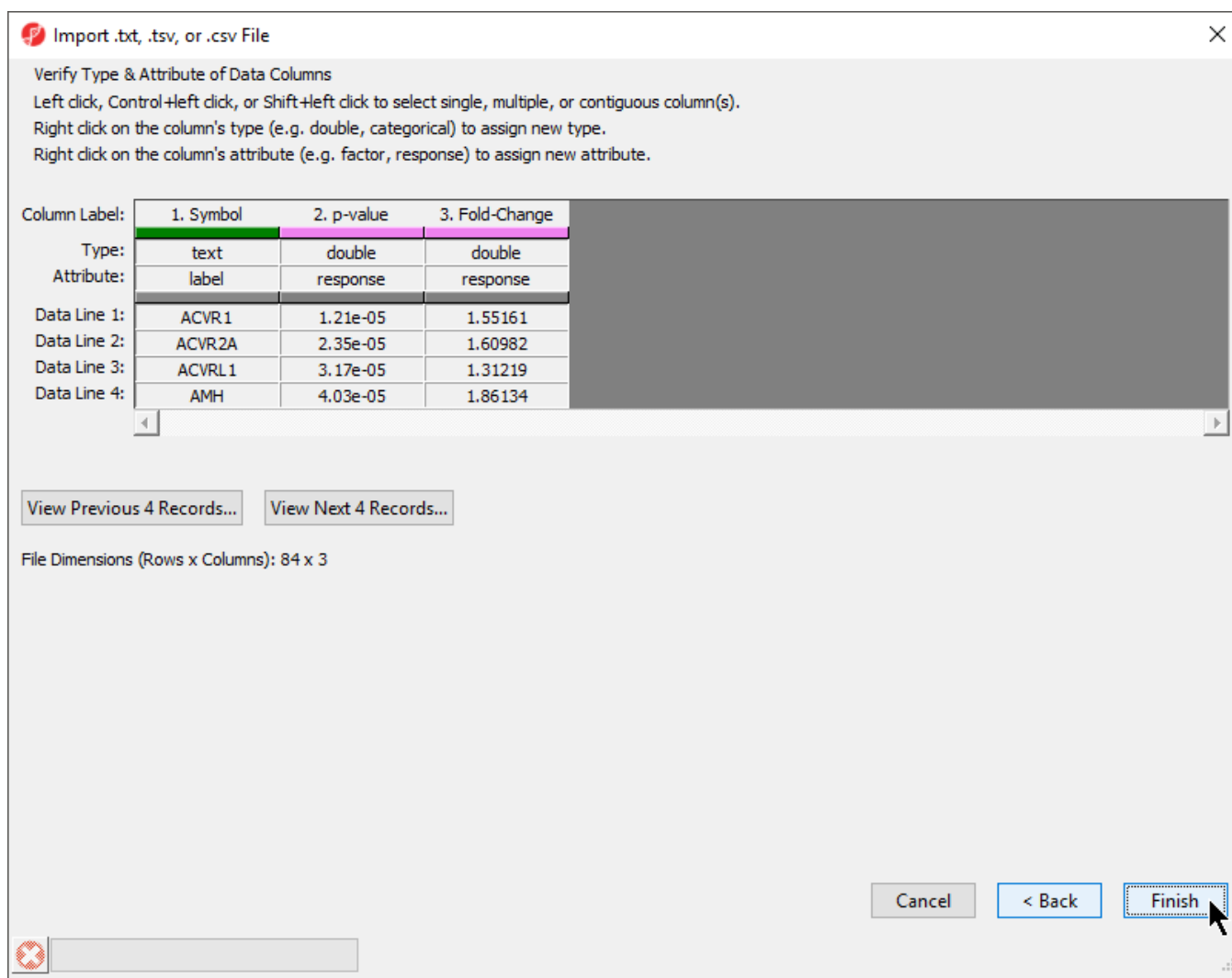


Figure 12. Verifying type and attribute of data columns. While individual column types and attributes can be modified after import, this dialog allows multiple columns to be selected and modified simultaneously.

- Check and modify column types and attributes

If there is an identifier like gene symbol or SNP, the *Type* field for that column should be set to **text** and *Attribute* should be set to **label**. Numeric values (intensities, p-values, fold-changes, etc.) should have *Type* set to **double** and *Attribute* set to **response**. The other possible value for *Attribute* is **factor** and describes sample data. The user interface is this dialog allows you to select multiple columns at once (Ctrl+Left click and Shift+Left click). The interface controls are detailed in the dialog (Figure 5).

- Select **Finish** to import the text file and open it as a spreadsheet

If **Genomic data** was selected in the *Data Type* section, the *Configure Genomic Properties* dialog will open (Figure 6). These options will be discussed in the next section when we add an annotation file.

Configure Genomic Properties of 1

Choose the type of genomic data
Other

Location of genomic features in spreadsheet
☐ Gene symbol instead of Marker ID
☐ Feature in column label
☒ Feature in column 1. Symbol

Choose chips/references and annotation files
Chip/Reference Annotation file
X [] [] Browse... Download
Add

Annotation column with gene symbols or microRNA names
Set Column: 1. Symbol ?

Species and Genome Build
Other []

Advanced.. Cancel OK

Figure 13. Many types of genomic data can be imported into Partek Genomics Suite using the text data file importer. This dialog allows these files to be associated with an annotation file and reference genome.

- Select **OK**

The imported spreadsheet will open (Figure 7).

Partek Genomics Suite - 1 (Gene List.txt)

File Edit Transform View Stat Filter Tools Window Custom Help

Analysis X Workflows Choose...

1 (Gene List.txt)

Current Selection ACVR1

1. Symbol	2. p-value	3. Fold-Change										
1. ACVR1	1.21e-05	1.55161										
2. ACVR2A	2.35e-05	1.60982										
3. ACVRL1	3.17e-05	1.31219										
4. AMH	4.03e-05	1.86134										
5. AMHR2	4.61e-05	1.80504										
6. ATF4	4.63e-05	1.40251										
7. BAMBI	6.3e-05	1.49653										
8. BGLAP	6.76e-05	1.54478										
9. BMP1	7.75e-05	1.47381										
10. BMP2	7.79e-05	1.47676										
11. BMP3	8.96e-05	1.61131										
12. BMP4	0.000115354	1.59764										
13. BMP5	0.000118621	-1.83315										
14. BMP6	0.000140321	1.34069										
15. BMP7	0.000140577	1.3735										
16. BMPER	0.000188366	1.69875										
17. BMPR1A	0.000221164	1.52883										
18. BMPR1B	0.000318506	1.54524										
19. BMPR2	0.000343061	1.3383										
20. CDKN1A	0.000379017	1.32108										
21. CDKN1B	0.000411788	1.73328										
22. CDKN2B	0.000432878	1.57566										

Rows: 84 Columns: 3

Figure 14. An imported .txt data file spreadsheet

« Lists Adding annotations to a gene list »

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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