

The File Upload Search Tool allows you to upload Yfiler™ text files created by both the Genotyper® and GeneMapper® ID software programs.

## Genotyper® Software Files

The format for a file created by Genotyper® Software is:

```
Sample Info  marker1 1  marker1 2  marker2 1  marker2 2  marker3 1  marker3 2 . . .
Sample Info  Allele 1  Allele 2  Allele 1  Allele 2  Allele 1  Allele 2 . . .
```

Each file contains 1 row per sample. Each column corresponds to a marker/allele.

**NOTE:** There must be a value in each *Allele* column for the sample data in that row to successfully load. Acceptable *Allele* values are: integers, integers containing a decimal point (e.g., 18.2), <m or >n values for types that fall outside the ladder allele range, “O” or “OL allele?” text, and comma( , ). The search engine interprets any “OL Allele?” or “O” as a wildcard.

To create and modify a Genotyper® Software file to upload:

1. In the Genotyper® program, run the **Make Allele Table** macro.
2. From the Table menu, select **Export to File**, and save the file as *name.txt*.
3. (Optional). To modify the file, open the file with Microsoft Excel®.

The following example shows a partial file created by Genotyper® Software and opened in Microsoft Excel®:

	A	B	C	D	E	F	G	H	I	J
1	Sample Info	DYS456 1	DYS456 2	DYS389I 1	DYS389I 2	DYS390 1	DYS390 2	DYS389II 1	DYS389II 2	DYS458 1
2	AF5	16	16	12	12	25	25	28	28	19
3	AF9	15	15	13	13	21	21	31	31	16
4	AF6	15	15	13	13	21	21	31	31	16
5	H12	15	15	13	13	22	22	30	30	OL Allele?
6	AF15	15	15	14	14	23	23	28	28	16
7	A12	15	15	13	13	24	24	31	31	15
8	AF8	16	16	13	13	24	24	29	29	17
9	AF13	15	15	14	14	23	23	32	32	15
10	AF1	14	14	13	13	23	23	30	30	OL Allele?
11	AF12	15	15	13	13	21	21	30	30	17

4. (Optional). Delete the row that contains the allelic ladder sample and any other rows that contain samples you do not need to include in the search, such as known reference or control samples.

5. (Optional). Check the table for microvariants and revise microvariant values, if desired:

- “OL Allele?” appears in the allele table if a microvariant’s size is within the size range for the locus. Based on confirmation of the microvariant designation, you can change this value to be more specific; for example, replace “OL Allele?” with “17.2”.

- “O” appears in the allele table if a microvariant’s size is outside the size range for the locus. You can change this value to search for greater than or less than values. Enter “<m” to indicate the smallest allele in the ladder range for a locus; for example, “<15”; or enter “>n” to indicate the largest allele in the ladder range for a locus; for example, “>14”.

**NOTE:** When you modify the file, be sure to keep the exact same number of columns in each row. Each sample line must have the correct number of tab-delimited columns, or the sample data for that row will not be processed.

6. Save the file as tab-delimited text.

## GeneMapper® Software Files

The format for a file created by GeneMapper® Software is:

Sample Name	Marker	Allele 1	Allele 2	Sample Name	Marker	Allele 1	Allele 2 . . .
<i>Sample Name</i>	<i>Marker 1</i>	<i>Allele 1</i>	<i>Allele 2</i>	<i>Sample Name</i>	<i>Marker 2</i>	<i>Allele 1</i>	<i>Allele 2 . . .</i>

Each file contains 1 row per sample.

**NOTE:** There must be a value in each *Allele 1* column for the sample data in that row to successfully load. Acceptable *Allele* values are: integers, integers containing a decimal point (e.g., 18.2), <m or >n values for types that fall outside the ladder allele range, and “OL” text. The search engine interprets any “OL” or blank as a wildcard.

To create and modify a GeneMapper® Software file:

1. In the GeneMapper® Software Tools menu, select the **Table Setting Editor**.
2. In the Genotypes tab, select the following Column Settings:
  - Sample Name
  - Marker
  - Allele
3. In the Samples tab, hide all columns.
4. Select the File menu and then select **Export Combined Table**.
5. Name the file and save as tab-delimited text; for example: *name.txt*.
6. (*Optional*). To modify the file, open the file with a text editor such as Microsoft Notepad® or Wordpad®.

**NOTE:** If you open the file using Microsoft Excel, you may experience errors when searching the US Y-STR Database.