

This page will help you find other kits that match your DNA. There are three tools: Lookup, Compare and Matches. If you have any questions on terminology, please check out our [resource page](#) with links to DNA help pages, instructions and bloggers.

If someone shares their kit ID information, then you can Lookup their kit to see their earliest known ancestor and all the other information found on their kit page. For mtDNA, you can view the hypervariable regions but not the Coding Regions because of privacy.

## Lookup

The screenshot shows two search boxes side-by-side. The left one is labeled 'YDNA Lookup' and has a subtext 'Find the Y-DNA information for the Kit # entered (e.g., T10987)'. The right one is labeled 'mtDNA Lookup' and has a subtext 'Find the mtDNA information for the Kit # entered (e.g., T10456)'.

If you have uploaded a **Y-DNA** test:

1. Enter the kit number in the Y-DNA Lookup box.
2. Click on the YDNA Lookup button. This will find the Y-DNA information for the kit specified.

If you have uploaded an **mtDNA** test:

1. Enter the kit number in the mtDNA Lookup box.
2. Click on the mtDNA Lookup button. This will find the mtDNA information for the kit specified.

This will compare your results with someone else and help you determine if (and how closely) you are related. It gives you information about who you are comparing.

## Compare

The screenshot shows two buttons side-by-side: 'YDNA Compare' and 'mtDNA Compare'. Below each button is a subtext: 'Compare Y-DNA information for multiple Kits' and 'Compare mtDNA information for multiple Kits' respectively.

1. Click on Y-DNA Compare.
2. Type in up to 24 kit numbers that you want to compare.

The screenshot shows a form titled 'Y-DNA Compare' with the instruction 'Input one or more Y-DNA kit ID's to compare Kits to each other'. There is a 'Compare' button at the top right. Below are 24 numbered input fields (1-24) for entering kit IDs. At the bottom, it says 'All rights reserved © 2018-2019 mitoYDNA Ltd.'

See [Compare](#) for additional help on Y-DNA Compare results.

3. Once they are all entered, click on Compare at the top. The following screen appears (personal information has been removed from the example).

The screenshot shows the 'mtCompare' results page. It has a navigation bar with 'Home About Privacy FAQ Kits Tools' and a 'Hello' greeting with a 'Logout' button. The main content is a table with the following columns: User ID, EKA Surname, EKA Birthplace, Haplogroup, Diff HVR1, Diff HVR2, Diff CR, rCRS HVR1, and rCRS HVR2. Two rows of data are shown, one for a USA user and one for a Bahamas user. At the bottom, it says 'All rights reserved © 2018-2019 mitoYDNA Ltd.'

| User ID | EKA Surname | EKA Birthplace | Haplogroup | Diff HVR1 | Diff HVR2 | Diff CR | rCRS HVR1                      | rCRS HVR2   |
|---------|-------------|----------------|------------|-----------|-----------|---------|--------------------------------|---|
| T       |             | USA            | I3c        | 0         | 0         | 0       | 16129A, 16223T, 16391A, 16519C | 73G, 152C, 199C, 204C, 239C, 250C, 263G, 309.1C, 315.1C, 523.1C, 523.1A, 523.1C, 523.1A, 573.1C, 573.1C |
| T       |             | Bahamas        | H1         | 4         | 15        | 17      | 16311C, 16519C                 | 263G, 310C, 311T, 315.1C, 315.2C, 522-, 523-  |

Note: If no kit appears in this table it is because there are NO matches or that kit is not the type of kit you are trying to compare. The following table describes each of the columns in the result:

|                |  |
|----------------|--|
| User ID        | The Kit number   |
| EKA Surname    | The surname of the Earliest Known Ancestor from their pedigree chart.                                  |
| EKA Birthplace | The birthplace of the Earliest Known Ancestor from their pedigree chart.                               |
| Haplogroup     | Haplogroup, as it is entered by the Kit owner.   |
| Diff HVR1      | Control regions called hypervariable region #1<br>HVR1 runs from nucleotide 16001 to nucleotide 16569. |

|           |  |
|-----------|--|
| Diff HVR2 | Control regions called hypervariable region #2<br>HVR2 runs from nucleotide 00001 to nucleotide 00574. |
| Diff CR   | Coding Regions<br>The coding region runs from nucleotide 00575 to nucleotide 16000.                    |

Find DNA matches with others who have uploaded their results to mitoYDNA.org. Fill in one side or the other, then click on the Match button at the bottom of that section.

The following are the items that must be filled in to find matches to an Y-DNA kit.

1. Enter the kit number ID for the kit you want to compare.
2. Select the differences by sliding the bar to the number you want. This is a scale from 0 to 10. The default is 3.

3. Select Max markers from the drop down box. When you bought the YDNA kit you selected how many markers you wanted to analyze. Select the number of markers that you wish to match, from the drop down box.

4. Click on the Y-DNA Match button.

### Results

The following is the Results page of the matches (with some of the information covered for privacy). The first line is your kit ID. All subsequent lines are the kit(s) of your matches. The yellow highlighting shows the differences between the selected kits. For differences on multi-value markers, the different element is **bold**. If it is clear, they are exact match for that allele.

| YCompare |             |   |            |         |         |         |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |    |    |
|----------|-------------|---|------------|---------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|
| User ID  | EKA Surname | EKA Birthplace                                      | Haplogroup | DIST 25 | DIST 17 | DIST 67 | DIST 111 | DY9381 | DY9382 | DY9383 | DY9384 | DY9385 | DY9386 | DY9387 | DY9388 | DY9389 | DY9390 | DY9391 | DY9392 | DY9393 | DY9394 | DY9395 | DY9396 | DY9397 | DY9398 | DY9399 | DY9400 | DY9401 | DY9402 | DY9403 | DY9404 | DY9405 | DY9406 | DY9407 | DY9408 | DY9409 | DY9410 |    |    |    |
| 1        | Kruger      | Zwolle, Overijssel, Netherlands                     | I-M170     |         |         |         |          | 14     | 24     | 15     | 10     | 12     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11     | 13     | 11 | 13 |    |
| 2        | Gaulding    | Unknown (lived in New Kent County, Virginia Colony) | R-A2269    |         |         |         |          | 13     | 24     | 14     | 10     | 11     | 14     | 12     | 12     | 12     | 13     | 13     | 13     | 29     | 11     | 9      | 10     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 11 | 11 | 11 |

If you click on the Kit ID, this will take you to the kit page for more information about that match (including contact information).

The following are the items that must be filled in to find matches to an mtDNA kit:

1. Enter the kit ID for which you want to find matches.
2. Select the differences by sliding the bar to the number you want. This is a scale from 0 to 10. The default is 3.
3. Select Marker Region from the drop down box as explained below.

|      |                                       |
|------|---------------------------------------|
| HVR1 | Hyper Variable Region 1 (16024-16569) |
| HVR2 | Hyper Variable Region 2 (00001-00576) |
| CR   | Coding Region (00577-16023)           |

4. Click on the mtDNA Match button.

Once all the information is entered, the following screen appears comparing your mtDNA with the other kit you entered. Click on the Kit ID and it will take you to their kit page to get more information about that match (including contact information).

**Results**

Below is a mtDNA Result page (with some of the information covered for privacy).

mitoYDNA.org
Home About Privacy FAQ/Help Kits Tools
Hello m .ca! [Logout](#)

## mtKit

|                 |                |                      |                       |
|-----------------|----------------|----------------------|-----------------------|
| First Name<br>M | Last Name<br>G | Haplogroup<br>H1b1-T | mitoYDNA ID<br>T10002 |
|-----------------|----------------|----------------------|-----------------------|

HVR1 Differences from rCRS

|        |        |        |        |      |        |
|--------|--------|--------|--------|------|--------|
| 16189C | 16356C | 16362C | 16519C | 263G | 315.1C |
|--------|--------|--------|--------|------|--------|

HVR2 Differences from rCRS

|       |        |        |       |       |
|-------|--------|--------|-------|-------|
| 750G  | 1438G  | 3010A  | 3796G | 4769G |
| 8860G | 11089Y | 15326G |       |       |

Coding Region Differences from rCRS

|       |        |        |       |       |
|-------|--------|--------|-------|-------|
| 750G  | 1438G  | 3010A  | 3796G | 4769G |
| 8860G | 11089Y | 15326G |       |       |

[Close](#)

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**Haplogroup** H1b1-T16362C

**Tester Name** N

**Test Company** FTDNA **Testing Company ID (optional)** 340555

**Contact Name** M - Email

**EKA (Earliest Known Ancestor)**

The Earliest known ancestor on the direct maternal line (mtDNA test)

**EKA First Name** Ann **EKA Last Name** Unknown (married James Hall)

**EKA Birth Date** 1793-01-01 **EKA Birth Place** SC, NC, VA

**EKA Death Date** **EKA Death Place** North Georgia, USA

**URL to EKA Tree** <https://www.wikitree.com/wiki/Unknown-255103>

**User Notes** Ann is listed as being born in SC, NC, VA on various census records she appears in through 1860.

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