Introduction To Using Ancestry DNA Matches

Using Ancestry DNA Beta version

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DNA Research and Records Research Are Partners

The process of breaking a brick wall often depends on identifying which of several possibilities for a parent or a sibling is most likely to be correct. DNA can help with that.

But sometimes we're entirely clueless and DNA can point to candidates to investigate further.

But it is important to explore the records too and look for verification of what the DNA discovery shows you.
Why You Need A Tree

Ancestry DNA has two parts: your DNA test results and your tree.

Your DNA test results tells who you match but not why you match.

When you hook up your tree to your DNA results then Ancestry looks for things in common between your tree and your match's tree and displays them.

So if you want to know why you match - You Need A Tree!
How to Opt In to Beta version

https://www.ancestry.com/BETA
# My DNA Match List

Alice Kalush's DNA Matches

<table>
<thead>
<tr>
<th>Group: All matches</th>
<th>Filtered by: Add a filter</th>
</tr>
</thead>
</table>

### Full Sibling
- **Martha Bland**
  - Managed by alicekalushc
  - Shared DNA: 2,634 cM across 76 segments
  - 131,747 People
  - Common ancestor
  - Add to group

### 3rd Cousin
- **MARJORIE MITCHELL**
  - 3rd–4th Cousin
  - Shared DNA: 146 cM across 11 segments
  - No Trees
  - Add to group
  - sent email 6/21/17 This is Marjorie Yoder Mitchell, daughter of Lester and

- **leonstutz**
  - 3rd–4th Cousin
  - Shared DNA: 138 cM across 5 segments
  - 12 People
  - Common ancestor
  - Add to group
  - Amasa Stutzman and Isabelle Miller or Ira Johns and Elizabeth

- **Yvonne Benzinger**
  - 3rd–4th Cousin
  - Shared DNA: 120 cM across 7 segments
  - No Trees
  - Add to group
  - Bernhard Ruth and Hedwig, Schuste, Walter Herbert Ruth, Yvonne Delores
<table>
<thead>
<tr>
<th>Username</th>
<th>DNA Relationship</th>
<th>Shared DNA</th>
<th>Trees</th>
<th>Add to Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joyce Fry</td>
<td>3rd-4th Cousin</td>
<td>97 cM</td>
<td>No Trees</td>
<td><img src="image" alt="Add to group" /></td>
</tr>
<tr>
<td>denisefurlong_1</td>
<td>3rd-4th Cousin</td>
<td>95 cM</td>
<td><img src="image" alt="66 People" /></td>
<td><img src="image" alt="Add to group" /> George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and</td>
</tr>
<tr>
<td>James Wissler</td>
<td>3rd-4th Cousin</td>
<td>94 cM</td>
<td>No Trees</td>
<td><img src="image" alt="Add to group" /></td>
</tr>
<tr>
<td>4th Cousin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>gableguy67</td>
<td>4th-6th Cousin</td>
<td>79 cM</td>
<td><img src="image" alt="Unlinked Tree" /></td>
<td><img src="image" alt="Add to group" /> Benjamin Gable and Anna Koppes, John Gable and Sarah Campbell, Urgah</td>
</tr>
<tr>
<td>VINCENT VOLA</td>
<td>4th-6th Cousin</td>
<td>72 cM</td>
<td><img src="image" alt="11 People" /></td>
<td><img src="image" alt="Add to group" /></td>
</tr>
<tr>
<td>L.C.</td>
<td>4th-6th Cousin</td>
<td>72 cM</td>
<td><img src="image" alt="Unlinked Tree" /></td>
<td><img src="image" alt="Add to group" /> sent email 6/21/17 Jenter and Jetter (don't know common ancestor)</td>
</tr>
<tr>
<td>John Myers</td>
<td>4th-6th Cousin</td>
<td>70 cM</td>
<td><img src="image" alt="Unlinked Tree" /></td>
<td><img src="image" alt="Add to group" /> Wilhelm Gobbel, John Gable and</td>
</tr>
</tbody>
</table>
Your Highest Matches
(Top 10)

• Might include some close relatives you know
• Usually include some not quite as close relatives that you both know another close relative
• Some won't have a tree - so you won't know why they match you
Let's take a closer look

**denisefurlong_1**

*3rd–4th Cousin*

Shared DNA: 95 cM across 5 segments

---

**66 People**

Common ancestor

---

Add to group

George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and
Trees: # of people, Unlinked Tree, No Tree, Locked Trees, Hints

- 66 People
- Common ancestor
- Unlinked Tree
- 50 People
- Common ancestor
- No Trees
Looking for Useful and Helpful Contacts

Your highest matches are more closely related

No Tree - Not Very Interested

The Best Ones Have a Tree Linked to Their DNA

Bigger Trees - More than 1000 people - Have The Most Information and Are The Most Helpful Contacts

Check Out Unlinked Trees Too
After Clicking Match's Name

Shared DNA with **denisefurlong_1**

Predicted Relationship: 3rd Cousin
Amount of shared DNA is **95** centimorgans across **8** DNA segments

George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and Sarah Campbell, Ural Gable and Mary Zulemma Anderson (on email list)

**Gable Family Tree** — 66 people

This is the tree that denisefurlong_1 has linked to their DNA results.

View surnames, birth locations, and up to 7 generations.

**Preview tree**

**Common Ancestors** 🍃

According to Ancestry family trees, these are common ancestors you and denisefurlong_1 share. You can view each relationship to see if it's correct.

**Benjamin Gable**
2nd Great-Grandfather
1806–1895

**Anna Koppes**
2nd Great-Grandmother
1806–1865

**View Relationship**

**Shared Matches**

**Martha Bland**
Immediate Family | 2,634 cM shared
≡ 131,747 people

**HintonN27**
4th Cousin | 54 cM shared
≡ 50 people

**View all shared matches**
Denise is My Third Cousin

Shared DNA with denisefurlong_1

Predicted Relationship: 3rd Cousin
Amount of shared DNA is 95 centimorgans across 5 DNA segments

George Gable's sister: Benjamin Gable and Anna Koppes, John G
Relationships and Percentage of DNA Inherited

- 50% from each parent
- 25% from each grandparent
- 12.5% from each great grandparent
- 6.25% from each GG grandparent
- and so on
Relationships and Centimorgans

The Shared cM Project – Version 2.0
June 25, 2016 (Updated July 31, 2016)

Blaine T. Bettinger
www.thegeneticgenealogist.com
CC 4.0 Attribution License

Discovering Hard to Find Ancestry DNA Matches
<table>
<thead>
<tr>
<th>Confidence Score</th>
<th>Centimorgans</th>
<th>Likelihood of Common Ancestor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely High</td>
<td>&gt;60</td>
<td>Virtually 100%</td>
</tr>
<tr>
<td>Very High</td>
<td>45-60</td>
<td>About 99%</td>
</tr>
<tr>
<td>High</td>
<td>30-45</td>
<td>About 95%</td>
</tr>
<tr>
<td>Good</td>
<td>16-30</td>
<td>Above 50%</td>
</tr>
<tr>
<td>Moderate</td>
<td>6-16</td>
<td>15-50%</td>
</tr>
</tbody>
</table>

I prefer above 30 cm - very reliable
15 cm - 91% share a recent ancestor

below 10 cm - the likelihood of false matches starts to be a concern, but matches supported by reliable trees can be accurate and provide new helpful new information
Relationships and Sharing DNA

- All people that share your GG grandparents will match
- About 5 pct of 3rd cousins don't match
- The further back you connect, the less likely you'll match
- Less generations means a match is more likely
- Test that 96 year old grandmother!
Shared DNA with denisefurlong_1

Predicted Relationship: 3rd Cousin
Amount of shared DNA is 95 centimorgans across 5 DNA segments

George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and Sarah Campbell, Uriah Gable and Mary Zulemma Anderson (on email list)

Gable Family Tree 66 people

This is the tree that denisefurlong_1 has linked to their DNA results.
View surnames, birth locations, and up to 7 generations.

How are you and denisefurlong_1 connected?

Common Ancestors

According to Ancestry family trees, these are common ancestors you and denisefurlong_1 share. You can view each relationship to see if it's correct.

Benjamin Gable
2nd Great-Grandfather
1806-1895
View Relationship

Anna Koppes
2nd Great-Grandmother
1806-1865
View Relationship

Shared Matches

Martha Bland
Immediate Family | 2,634 cM shared
View all shared matches

HintonN27
4th Cousin | 54 cM shared
50 people
Hints

How are you and denisefurlong_1 connected?

Common Ancestors

According to Ancestry family trees, these are common ancestors you and denisefurlong_1 share. You can view each relationship to see if it's correct.

Benjamin Gable
2nd Great-Grandfather
1806–1895

View Relationship

Anna Koppes
2nd Great-Grandmother
1808–1865

View Relationship
Relationship to denisefurlong_1

You may be related to denisefurlong_1 through Benjamin Gable

- **Benjamin Gable**
  - 2nd great-grandfather
  - 1806-1895

- **John Gable**
  - 2nd great-uncle
  - 1842-1930

- **David K. Gable**
  - Great-grandfather
  - 1851-1934

- **Uriah C. Gable**
  - 1st cousin 2x removed
  - 1880-1966

- **George R. Gable**
  - 2nd cousin 1x removed
  - 1908-1961

- **Charles Dudley Gable**
  - Paternal grandfather
  - 1887-1963

- **Charles Marvin Gable**
  - Father
  - 1918-2004

DE

AK
About Hints

- **Current AncestryDNA:** You and your match must both have the shared ancestor(s) in your tree for a hint to be found.
- If trees are unreliable, Hints may not be correct.
- Finding Hints is a lot of work and Ancestry does NOT attempt to find all of them.
Beta AncestryDNA Hints

Is finding Hints based on combining information from your tree and your match's tree and even in some cases using a third person's tree to connect your tree with your match's tree to find the common ancestor

Lots more hints - but at least a few aren't right!
Digging Deeper

30 centimorgans, 2 segments  (This Hint didn't appear until after I modified my tree to include the connection.)
denisefurlong_1's Linked Tree

Gable Family Tree 66 people

This is the tree that denisefurlong_1 has linked to their DNA results.

View surnames, birth locations, and up to 7 generations.

Preview tree
Discovering Hard to Find Ancestry DNA Matches

Diane Strock
Member since 2006, last logged in yesterday

Predicted relationship: 4th Cousins
Possible range: 4th - 6th cousins (What does this mean?)
Confidence: High

Wilhelm/Martin, William C. Gable and Susannah Frankford, Elizabeth Gable and Aaron Flory Whitcraft, Emma Whitcraft and Benjamin Franklin Duing, Ruby P...

View all

Diane Strock's tree
3,299 people

SHARED SURNAMES
Direct ancestor surnames that appear in both
Diane Strock's tree and Alice Kalush's tree

Funk  Gable
Gebel  Johnson
Meyer  Weller

Surnames (10 generation pedigree)

Pedigree and Surnames  Shared Matches  Map and Locations

1ST GEN  2ND GEN  3RD GEN  4TH GEN  5TH GEN  6TH GEN  7TH GEN

Aaron Henry
Moses Henry
John Henry
Jesse Maneary
Martha Jane Patsy Maneary
**SHARED SURNAMES**

Direct ancestor surnames that appear in both **Diane Strock195**'s tree and **Alice Kalush**'s tree

<table>
<thead>
<tr>
<th>Funk</th>
<th>Gable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gebel</td>
<td>Gobel</td>
</tr>
<tr>
<td>Johnson</td>
<td>Meyer</td>
</tr>
<tr>
<td>Weller</td>
<td></td>
</tr>
</tbody>
</table>
William C. Gable
B: 27 Aug 1810 in Lancaster, Lancaster, Pennsylvania, USA
D: 11 Jul 1891 in Millport, Warwick Twp., Lancaster Co., PA

Elizabeth "Eliza" GABLE
B: 17 Mar 1832 in Lancaster Co., PA
D: 5 Dec 1915 in Upper Leacock, Lancaster, Pennsylvania, USA

From Diane Strock: Broadhecker Family Tree (2)

Benjamin Gable
B: 26 Oct 1806 in Lancaster, Pennsylvania
D: 9 Aug 1895 in Guilford Township, Medina County, Ohio

Elizabeth "Eliza" Gable
B: 3 Feb 1822 in Lititz, Manheim Township, Lancaster, Pennsylvania, USA
D: 7 Jun 1908 in Mountville, Lancaster, Pennsylvania, USA

From Alice Kalush: Kalush for Ancestry 20180112 (5)
From Diane Strock: Broadhecker Family Tree (3)

**Wilhelm Gebel**
B: Abt 28 Sep 1704 in Germany
D: Abt 22 Apr 1786 in Lancaster Borough, Lancaster, Pennsylvania

**Wilhelm (William) Gebel**
B: Abt. 1740 in Germany
D: 22 May 1810 in Manheim Twp., Lancaster, PA

**Martin Gebel**
B: 5 Dec 1776 in Lancaster, Pennsylvania, USA
D: 1 Apr 1837 in Lancaster, Pennsylvania, USA

From Alice Kalush: Kalush for Ancestry 20180112 (2)

**Johannes Gebel**
B: 16 Nov 1761 in Lancaster County, Pennsylvania
D: Aft 1840 in last known Milton Township, Wayne County, OH

**Wilhelm Gebel**
D: 22 May 1810 in Manheim Twp., Lancaster, PA
Shared Surnames

Why do you and your match share a surname?

1) You have a common ancestor with that surname. Can you find it in your trees? Do the names, dates, spouses and places match?

2) You both have ancestors with that surname, but they aren't related to each other.
<table>
<thead>
<tr>
<th>Surnames (10 generation pedigree)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imdorff</td>
</tr>
<tr>
<td>AASE</td>
</tr>
<tr>
<td>APPEL</td>
</tr>
<tr>
<td>Baillet</td>
</tr>
<tr>
<td>Balliet</td>
</tr>
<tr>
<td>Bender</td>
</tr>
<tr>
<td>Best</td>
</tr>
<tr>
<td>Beutelmann</td>
</tr>
</tbody>
</table>
After Clicking an Entry In *Your Match's* Surname List Below

The Shared Surnames List

<table>
<thead>
<tr>
<th>Surname</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>GABLE</td>
<td>2</td>
</tr>
<tr>
<td>GARPESTAD</td>
<td>1</td>
</tr>
<tr>
<td>Gebel</td>
<td>3</td>
</tr>
</tbody>
</table>

- **GABLE**
  - Elizabeth "Eliza" GABLE (1832 - 1915)
  - William C. Gable (1810 - 1891)

- **GARPESTAD**

- **Gebel**
  - Martin Gebel (1776 - 1837)
  - Wilhelm Gebel (1704 - 1786)
  - Wilhelm (William) Gebel (1740 - 1810)
Martin Gebel

BIRTH 5 Dec 1776 • Lancaster, Pennsylvania, USA
DEATH 1 Apr 1837 • Lancaster, Pennsylvania, USA

Facts

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1776</td>
<td>Birth</td>
<td>5 Dec 1776 • Lancaster, Pennsylvania, USA</td>
</tr>
<tr>
<td>1778</td>
<td>Birth of Sister Mary Esther Gebel (1778–1861)</td>
<td>11 Mar 1778 • Manheim Twp, Lancaster, co, Pennsylvania, USA</td>
</tr>
<tr>
<td>1779</td>
<td>Birth of Half-Brother Valentine Gebel (1779–1830)</td>
<td>Bef 1779 • Manheim, Lancaster, Pennsylvania, United States</td>
</tr>
<tr>
<td>1783</td>
<td>Birth of Brother Abraham Gebel (1783–1810)</td>
<td>11 Aug 1783 • Manheim, Lancaster, Pennsylvania, USA</td>
</tr>
<tr>
<td>1786</td>
<td>Birth of Sister Susanna Gebel (1786–1810)</td>
<td>9 Jul 1786 • Manheim, Lancaster, Pennsylvania, USA</td>
</tr>
<tr>
<td>1789</td>
<td>Birth of Sister Barbara Gebel (1789–1818)</td>
<td>13 Jun 1789 • Manheim, Lancaster County, Pennsylvania, USA</td>
</tr>
<tr>
<td>1808</td>
<td>Birth of Son Jacob Gabel (1808–1892)</td>
<td></td>
</tr>
</tbody>
</table>

Sources

Ancestry Sources

- 1830 United States Federal Census
- U.S., Find A Grave Index, 1600s-Current

Family

Parents

- Wilhelm (William) Gebel
  1740–1810
- Barbara Weller
  1753–1810

Siblings

- Catharine
  1783–1850
- Jacob Gabel
  1808–1892
- William C. Gable
  1810–1891
Connecting Unlinked Trees
And Adding Notes

- Some DNA matches have trees that aren't hooked to their DNA results
- You can hook them up
- You can add notes about your shared ancestor(s)
gableguy67

Member since 2017, last logged in Apr 27, 2018

Predicted relationship: 4th Cousins
Possible range: 4th - 6th cousins (What does this mean?)

Confidence: Extremely High

[Add Note]

Add Note

Pedigree and Surnames Shared Matches Map and Locations

gableguy67 has not yet linked a family tree to their AncestryDNA results.

Your DNA results show that you may be related, and comparing family trees is the best way to find out exactly how. We've got a few tricks up our sleeve—automatically showing the surnames, places and people that both family trees share in common.

You can ask this member to link a family tree so that you both can take advantage of all of these features.

Invite gableguy67 to link a family tree

In the meantime, you can preview any public family tree that this member has posted on Ancestry. But keep in mind, the “Home Person” specified for not be the same person that your DNA test has matched you with—something to remember as you are investigating. Good luck!

Select a tree to preview...
Things To Check or Do

1) Be sure to click the shared surnames and look for anything that looks familiar

2) Also look at the surname list below for any surnames that look like variations of spelling of your ancestral surnames and click them

What you'll see there is information from your match's tree - not yours

3) You can click on names in various places on the Pedigree and Surnames tab and the DNA version of their Profile page will appear

4) Once you've done this, you can click View Full Tree to go to their tree as you'd normally see it from records searches
STOP HERE
## Shared Surname Searches

**Alice Kalush's DNA Matches**

### Full Sibling

<table>
<thead>
<tr>
<th>Name</th>
<th>Relationship</th>
<th>DNA Match</th>
<th>Common Ancestor</th>
<th>Add to Group</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martha Bland</td>
<td>Sister</td>
<td>2,634 cM</td>
<td>76 segments</td>
<td>Add to group</td>
<td>My sister</td>
</tr>
</tbody>
</table>

### 3rd Cousin

<table>
<thead>
<tr>
<th>Name</th>
<th>Relationship</th>
<th>DNA Match</th>
<th>Trees</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARJORIE MITCHELL</td>
<td>3rd-4th Cousin</td>
<td>146 cM</td>
<td>No Trees</td>
<td>Email 6/21/17 This is Marjorie Yoder Mitchell, daughter of Lester and</td>
</tr>
</tbody>
</table>
Discovering Hard to Find Ancestry DNA Matches

Enter the Surname - Do Spelling Variations Separately (Gabel)

**Search Matches Trees:**
- Gable

### Full Sibling
- **Martha Bland**
  - Managed by alicekalushc
  - Sister
  - Shared DNA: 2,634 cM across 76 segments
  - 131,747 People
  - Common ancestor

### 3rd Cousin
- **denisefurlong_1**
  - 3rd-4th Cousin
  - Shared DNA: 95 cM across 5 segments
  - 66 People
  - Common ancestor

### 4th Cousin
- **E.F.**
  - Managed by verystormywind
  - 4th-6th Cousin
  - Shared DNA: 46 cM across 1 segments
  - 3,961 People
  - Common ancestor

*Add to group*
- George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and
Surname DNA Match Searches

• Makes it easier to locate your matches below 30 cm - your 3rd, 4th and 5th cousins
• Finds matches down to Moderate (6 cm)

Explore these matches in the same ways we discussed above.
Shared Matches - Tab on the main Match Screen or the search Matches screen

You and your match must both match the third person at 20 or more cm to be included
During A Record Search - Are They a DNA Match?

Daniel Gable
BIRTH 1772 • PA
DEATH 10 APR 1844 • Wayne, Ohio

Facts

Name and gender

Birth
1772 • PA

Baptism
18 Oct 1772 • Manheim Township, Lancaster, PA
St. Paul's Reformed Church

Sources

Ancestry Sources

- 1800 United States Federal Census
- 1820 United States Federal Census
Discovering Hard to Find Ancestry DNA Matches

verystormywind

AncestryDNA

verystormywind is not on your DNA match list
This person is either not a DNA match or has not yet taken a DNA test.

You match the following 3 tests administered by verystormywind

E.F.
Relationship: 4th - 6th cousins
Confidence: Very High

Rhubarb62
Relationship: 4th - 6th cousins
Confidence: Good
Discovering Hard to Find Ancestry DNA Matches

ThruLines

DNA Story

Ethnicity Estimate

- 70% Germanic Europe
- 17% England, Wales, and Northwestern Europe
- 3 Other regions

Discover the places, history, and cultures that shaped who you are today—using just your DNA.

Discover Your DNA Story

DNA Matches

- 142 Shared Ancestor Hints
- 70 Starred matches
- 795 4th cousins or closer

View All DNA Matches

ThruLines™ BETA

ThruLines illustrates how you may be related to your DNA matches through a common ancestor.

Access to ThruLines™ Beta is available to customers without an Ancestry subscription for a limited time.

Still want to use DNA Circles?

Explore ThruLines
ThruLines™ BETA

ThruLines suggests how you may be related to your DNA matches through these common ancestors.

- **Charles Marvin Gable**
  Father
  1918–2004

- **Ruth Musser Kraiss**
  Mother
  1918–2008

- **Charles Dudley Gable**
  Paternal grandfather
  1867–1963

- **Hazel Ursula Ruth**
  Paternal grandmother
  1889–1975

- **Charles Louis Kraiss**
  Maternal grandfather
  1885–1957

- **Mabel Elizabeth Musser**
  Maternal grandmother
  1851–1934

- **David K. Gable**
  Great-grandfather
  1861–1922

- **Mary A. Rickert**
  Great-grandmother
  1849–1908

- **Richard Frank Ruth**
  Great-grandfather
  1861–1922

- **Marie (Mary) Hazel Kumrow**
  Great-grandmother
  1870–1908
Johann Carl Friedrich Kummerow (Kumrow)
2nd great-grandfather 1826–1872

Wilhelmine Sophia Therese (Minnie, Mary) Budde
2nd great-grandmother 1834–1880

Maria Mezger
2nd great-grandmother 1816–1873

Ludwig Jetter
2nd great-grandfather 1824–1891

(Anna) Maria Jenter
2nd great-grandmother 1824–1896

John S. Musser
2nd great-grandfather 1817–1875

Susanna Stoner
2nd great-grandmother 1820–1861

Thomas Kraiss
2nd great-grandfather 1814–1883

Charles (Carl) Klugh
2nd great-grandfather 1816–1882
About ThruLines

• Will find common ancestors that aren't in your tree
• It will find a common ancestor using your match's tree - even 3 generations further back than your tree goes
• It also will use a third tree for someone closely related to either you or your match to bridge the gap between your tree and your match's tree
• It accepts variations of surname spelling and missing dates
• It did find over 20 matches that my rather thorough process of locating over 150 Gable matches didn't find and most of them looked good
• Based on the three red comments above, I advise not being overly trusting - You should check the other person's research
Privacy

- Doesn't display email addresses - sends emails anonymously
- Can make your tree private
- Can make your DNA results private
- You can still share your tree and/or DNA results with selected people
- Only displays information about your matches and matches you and your match both share with others
- If you want to have a private tree/DNA results, you should make sure you set the privacy settings BEFORE hooking up your tree to your DNA results
- Choosing to have a private tree and/or DNA results prevents collaboration with others - The person you don't know can be the most help!
Ethnicity

- Ethnicity sort of equals Geographic Region of Origin
- In 2019 Ethnicity Estimates are still rough estimates
- But they have been improving in accuracy and are expected to continue to do so
- Percentages below 10 percent may still be likely to disappear later
- The estimation process is more effective for some geographic regions than others
- About the improvements with the Fall 2018 Ethnicity update
Resources for Getting Started with Ancestry DNA

DNA 101: An Insider's Scoop on AncestryDNA Testing  (webinar)

https://www.ancestry.com/academy/course/ancestry-dna-101

- What is a DNA test and why should I take one? (2:17)
- Genetic Inheritance: Who gave me my DNA and why does it matter? (5:34)
- How to Order a DNA Test (1:20)
- Activating your test (2:34)
- How do I share my DNA results? (2:33)
- AncestryDNA Ethnicity (6:40)
- AncestryDNA Matching (15:37)
- Review of Matching (6:07)
- DNA Success Stories: Making a Connection (3:58)
Discovering Hard to Find Ancestry DNA Matches

(Compares getting started with Ancestry, 23AndMe, MyHeritage, and FTDNA)
Beta Version Opt out: Click Extras in Black Tool bar, select Ancestry Lab and disable Beta features.

- **MyTreeTags™ BETA**
  Add labels to people in your tree to highlight personal details or to clarify your research status. If you enable this feature, you will be able to access it directly from your tree and on every Facts page for the people in your tree.

  - Enabled [Disable]

- **New & Improved DNA Matches BETA**
  If you enable this feature, you can more easily sort, group, and view your DNA matches in any way you'd like.

  Please note that if you have been using Chrome extensions to sort or organize your matches, these extensions will not be supported in this beta experience. We advise you first save or record any work you may have done with any Chrome extensions before participating in this beta feature.

  - Enabled [Disable]
MORE WEBINAR TRAINING

All of these sites have beginning, intermediate and advanced webinars on a variety of topics about using DNA for family history research.
https://familytreewebinars.com/category/249/dna  - Has non-product specific webinars. MyHeritage webinars are also on this site. Some are free, some at a monthly fee.

Blaine Bettinger's Foundations of DNA Series (5 webinars, not free, can watch free preview)
https://familytreewebinars.com/dna1

DNA in Ancestry Academy (free):
https://www.ancestry.com/academy/courses/understand-dna

FamilyTreeDNA webinar library (free):
https://www.familytreedna.com/learn/ftdna/webinars/

CeCe Moore and DNA Detectives (free)
https://thednadetectives.com/in-the-media
**BOOKS**

*Genetic Genealogy in Practice* by Blaine Bettinger and Debbie Parker  
**Wayne:** This workbook is a solid one that will help you interpret your DNA test results. Its practical and easy to understand approach helps you with your research with hands on activities.

*The Family Tree Guide to DNA Testing and Genetic Genealogy* by Blaine Bettinger.
WEBSITES

These sites are a little more advanced but they contain lots of useful information. Blaine Bettinger's blog is very useful even for beginners.

ISOGG Wiki - International Society of Genetic Genealogy - table of contents to their wiki https://isogg.org/wiki/Wiki_Welcome_Page

The Shared CM Project
https://thegeneticgenealogist.com/2015/05/29/the-shared-cm-project/

Blaine Bettinger's The Genetic Genealogist blog with many useful articles https://thegeneticgenealogist.com/

DNA Painter Tool - Type in the centimorgans that you and your match share and get a chart showing how you may be related and other cool tools https://dnapainter.com/tools/sharedcmv4
<table>
<thead>
<tr>
<th>Approximate amount of shared DNA (in centimorgans)</th>
<th>Possible relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,475</td>
<td>Parent, child, or identical twin</td>
</tr>
<tr>
<td>2,400—2,800</td>
<td>Full sibling (including fraternal twins)</td>
</tr>
<tr>
<td>1,450—2,050</td>
<td>Grandparent, aunt, uncle, half—sibling</td>
</tr>
<tr>
<td>680—1,150</td>
<td>1st cousin, great—grandparent</td>
</tr>
<tr>
<td>200—620</td>
<td>2nd cousin</td>
</tr>
<tr>
<td>90—180</td>
<td>3rd cousin</td>
</tr>
<tr>
<td>20—85</td>
<td>4th cousin</td>
</tr>
<tr>
<td>6—20</td>
<td>Distant cousin: 5th cousin — 8th cousins</td>
</tr>
</tbody>
</table>
From the Shared cM Project¹

¹ https://thegeneticgenealogist.com/2015/05/29/the-shared-cm-project/; https://www.yourdnaguide.com/scp
Figure 5.2 from the AncestryDNA Matching White Paper edited to use the groups defined by the DNA Detectives chart. Note that the numbered ranges to the right of the graph mark regions where that group is the most likely one, not the full range for that group. For example, between 200 cM and 340 cM, the most probable relationship is Group E, but the full range for that group is 65–600 cM (see below).


Discovering Hard to Find Ancestry DNA Matches

DNA Painter - https://dnapainter.com/tools/sharedcmv4

**Filter**
Enter the total number of cM for your match here:

30

**How to read this chart**

Then any relationships that fit will stand out below.
Click here for a sharable link to the cM amount above.

**Relationship probabilities (based on stats from The DNA Geek)**

<table>
<thead>
<tr>
<th>54.40%</th>
<th>6G 6C1R 5C 6C2R 4C1R 5C1R 7C 4C3R 5C3R 8C or more distant</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.00%</td>
<td>Half 3C 3C1R Half 2C2R 2C3R</td>
</tr>
<tr>
<td>17.00%</td>
<td>4C Half 3C1R 3C2R</td>
</tr>
<tr>
<td>9.00%</td>
<td>3C Half 2C1R 2C2R Half 1C3R</td>
</tr>
<tr>
<td>2.60%</td>
<td>Half 1C2R Half 2C 2C1R 1C3R</td>
</tr>
<tr>
<td>~ 0%</td>
<td><strong>Half GG-Aunt / Uncle</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Half GG-Niece / Nephew</strong></td>
</tr>
</tbody>
</table>

**This set of relationships is just within the threshold for 30cM, but has a zero probability in thednageek's table of probabilities.**

**This relationship has a positive probability for 30cM in thednageek's table of probabilities, but falls outside of the bounds of the recorded cM range (99th percentile).**