

# **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

 [Home](#) [Trees](#) [Search](#) [DNA](#) [Help](#) [Extras](#) 1

[Upgrade](#) 99+   [alicekalushc](#)


[<](#) [DNA matches for Alice Kalush](#) [Map](#) [Search](#)


## Alice Kalush's DNA Matches BETA



Group: [All matches](#)



Filtered by: [Add a filter](#)

### Full Sibling


**Martha Bland**  
Managed by alicekalushc


**Sister**  
Shared DNA: 2,634 cM across 76 segments 


 **131,747 People**  
 Common ancestor



 [Add to group](#)  
 my sister


### 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](#)  
 Bernhardt Ruth and Hedwig, Schuste, Walter Herbert Ruth, Yvonne Delores

 <b>Joyce Fry</b>	<b>3rd-4th Cousin</b> Shared DNA: 97 cM across 6 segments 	 No Trees	 <a href="#">Add to group</a>
 <b>denisefurlong_1</b>	<b>3rd-4th Cousin</b> Shared DNA: 95 cM across 5 segments 	 <b>66 People</b>  Common ancestor	  <a href="#">Add to group</a>  George Gable's sister: Benjamin Gable and Anna Koppes, John Gable and
 <b>James Wissler</b>	<b>3rd-4th Cousin</b> Shared DNA: 94 cM across 7 segments 	 No Trees	  <a href="#">Add to group</a>
<b>4th Cousin</b>			
 <b>gableguy67</b>	<b>4th-6th Cousin</b> Shared DNA: 79 cM across 3 segments 	 Unlinked Tree	  <a href="#">Add to group</a>  Benjamin Gable and Anna Koppes, John Gable and Sarah Campbell, Uriah
 <b>VINCENT VOLA</b>	<b>4th-6th Cousin</b> Shared DNA: 72 cM across 6 segments 	 <b>11 People</b>	 <a href="#">Add to group</a>
 <b>L.C.</b> Managed by svep2001	<b>4th-6th Cousin</b> Shared DNA: 72 cM across 6 segments 	 Unlinked Tree	 <a href="#">Add to group</a>  sent email 6/21/17 Jenter and Jetter (don't know common ancestor)
 <b>John Myers</b>	<b>4th-6th Cousin</b> Shared DNA: 70 cM across 3 segments 	 Unlinked Tree	  <a href="#">Add to group</a>  Wilhelm Gabel/John Gable and

 Was this useful? [Provide feedback.](#) 

# **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

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**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

---

 **No Trees**

 **Unlinked Tree**

  **50 People**

 Common ancestor

# **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 5 DNA segments

Blue Text Are Links

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

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](#)

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](#)

## 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

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## Shared DNA with **denisefurlong\_1**

### Predicted Relationship: 3rd Cousin

Amount of shared DNA is **95** centimorgans across **5** DNA segments

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 George Gable's sister: Benjamin Gable and Anna Koppes, John C

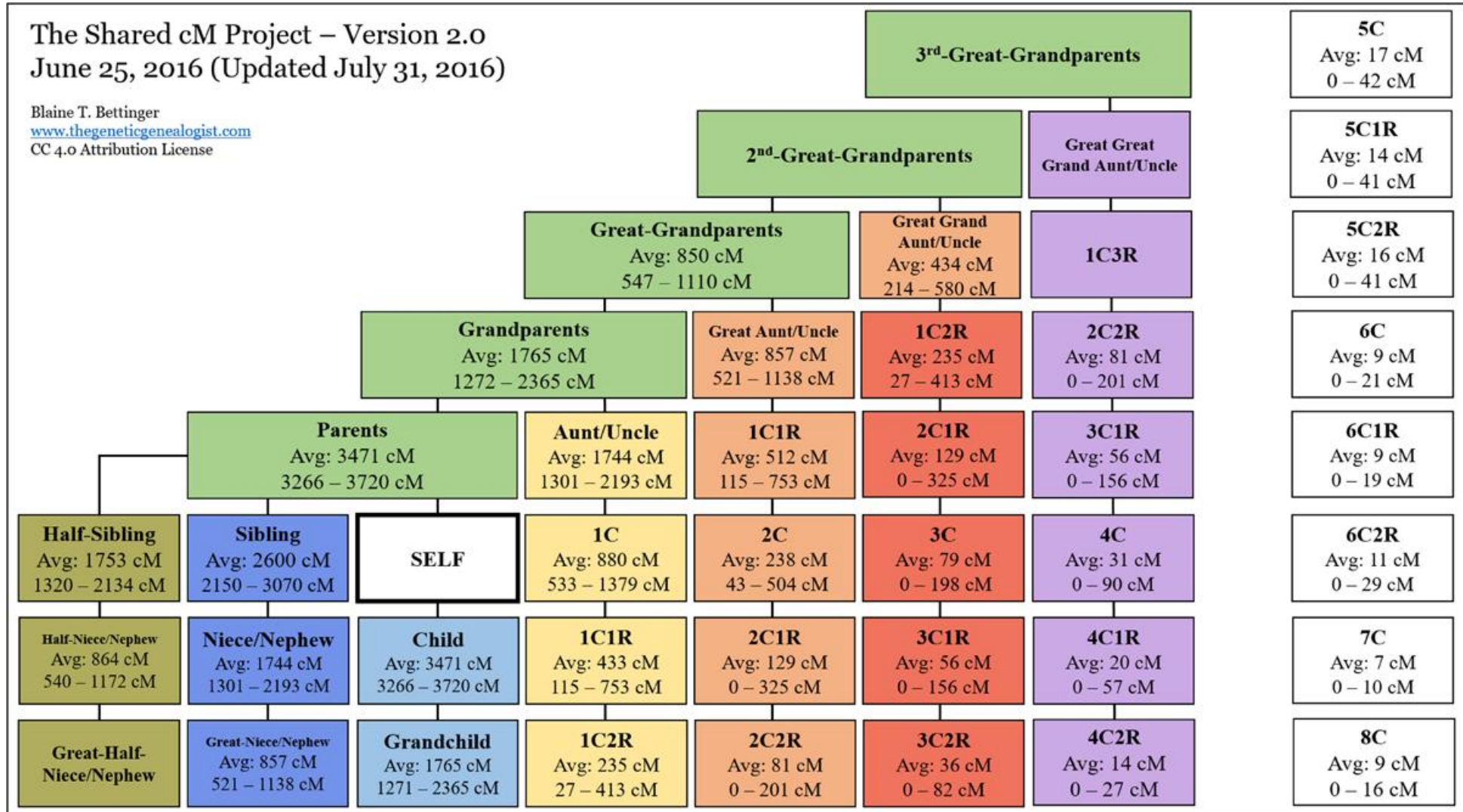
# **Relationships and Percentage of DNA Inherited**

- **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](http://www.thegeneticgenealogist.com)  
CC 4.0 Attribution License



<b>Confidence Score</b>	<b>Centimorgans</b>	<b>Likelihood of Common Ancestor</b>
Extremely High	>60	Virtually 100%
Very High	45-60	About 99%
High	30-45	About 95%
Good	16-30	Above 50%
Moderate	6-16	15-50%

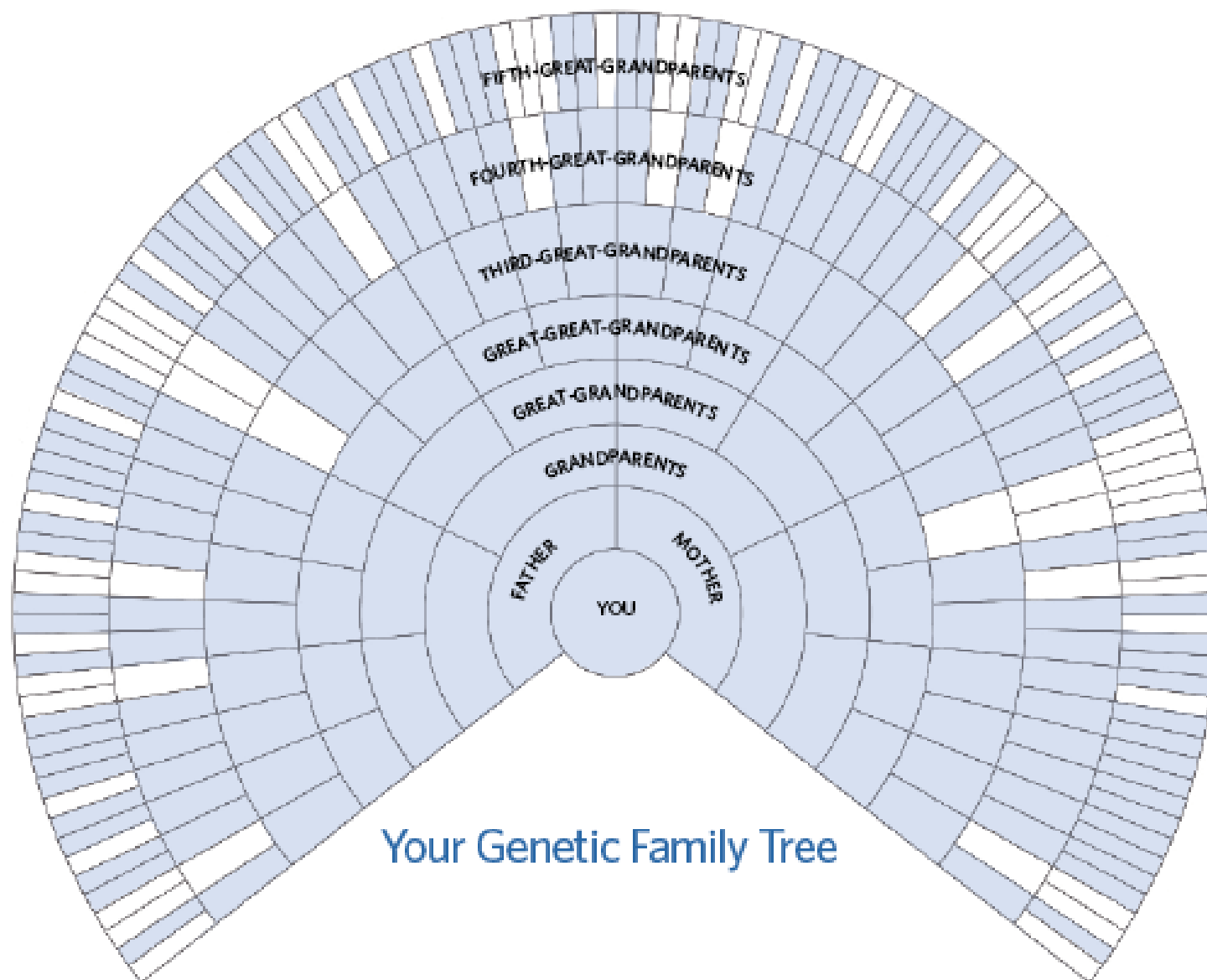
I prefer above 30 cm - very reliable  
 15 cm - 91% share a recent ancestor

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!**





Your Genetic Family Tree

## 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)

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](#)

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](#)

## Shared Matches

[View all shared matches](#)



#### Martha Bland

Immediate Family | 2,634 cM shared

 131,747 people



#### 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 BETA

You may be related to denisefurlong\_1 through Benjamin Gable



## 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.)*



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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**



?



Member since 2006, last logged in yesterday

## Compare

**Send Message**

### Ethnicity

**Regions:** Scandinavia, Europe West,  
Europe South,  
Ireland/Scotland/Wales

**Trace Regions:** European Jewish, Finland/Northwest Russia, Middle East, Africa South-Central Hunter-Gatherers



**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](#)

## Pedigree and Surnames

⋮ Shared Matches

## Map and Locations

### Diane Strock's tree

3,299 people

[View Full Tree](#)

## SHARED SURNAMES

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

Funk  
Gebel  
Meyer

Gable  
Johnson  
Weller

**Surnames (10 generation pedigree)**

→ Imdorff

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 Manearv**

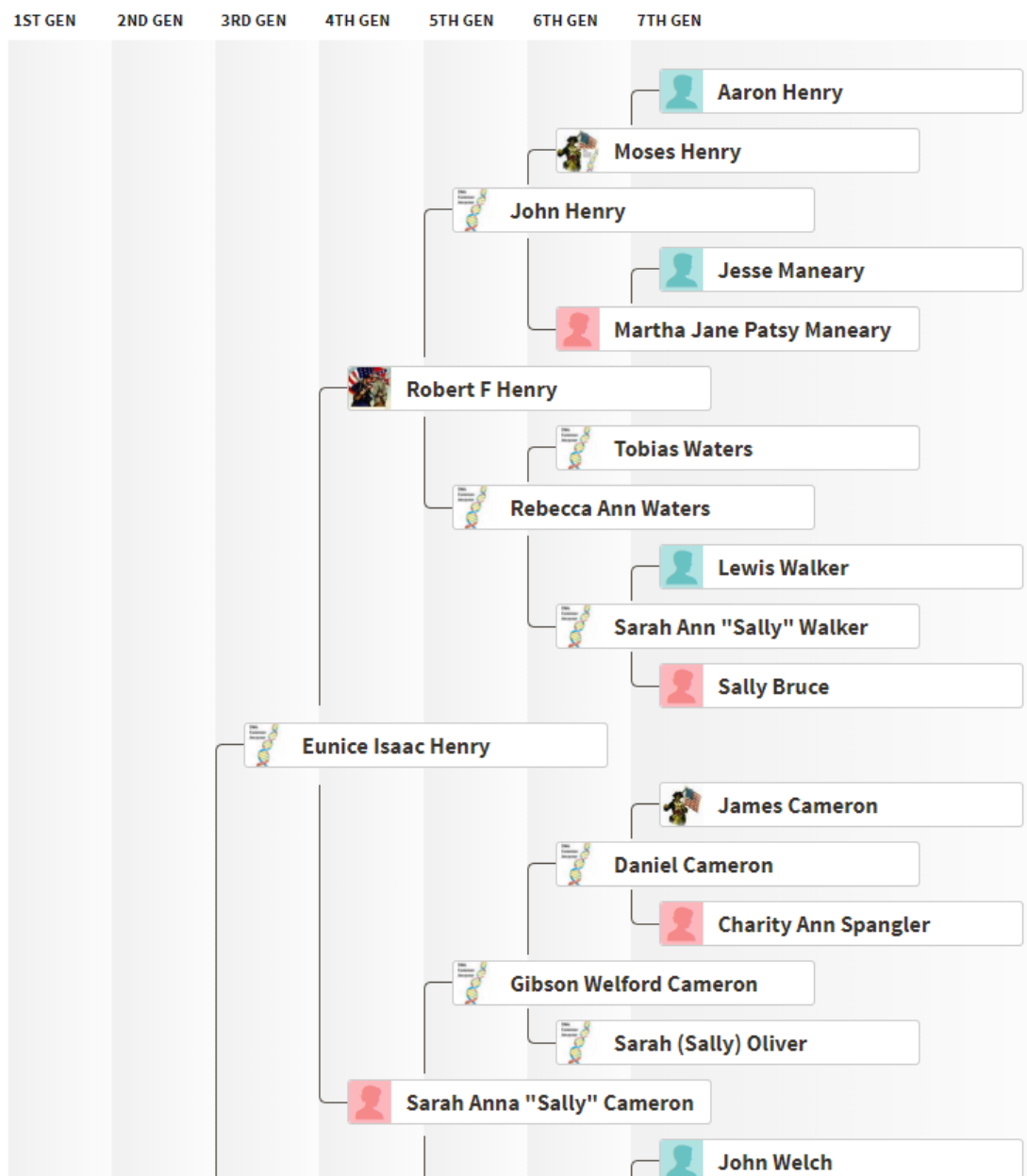
## SHARED SURNAMES

Direct ancestor surnames that appear in both  
**DianeStrock195's** tree and **Alice Kalush's** tree

Funk	Gable
Gebel	Gobel
Johnson	Meyer
Weller	

## Surnames (10 generation pedigree)

› Imdorff	1
› AASE	1
› APPEL	1
› Baillet	1
› Balliet	4
› Bender	1
› Best	2
› Beutelmann	1
› Broadhecker	1
› Bruce	1
› Bugh	1
› BUHLER	1
› Cameron	5



## SHARED SURNAMES

Direct ancestor surnames that appear in both  
**DianeStrock195's** tree and **Alice Kalush's** tree

Funk

Gable

Gebel

Gobel

Johnson

Meyer

Weller

From Diane Strock : Broadhecker Family  
Tree (2)

**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 Alice Kalush : Kalush for Ancestry  
20180112 (5)

**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 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.**

## Surnames (10 generation pedigree)

› Imdorff	1
› AASE	1
› APPEL	1
› Baillet	1
› Balliet	4
› Bender	1
› Best	2
› Beutelmann	1

## After Clicking an Entry In **Your Match's** Surname List Below

### The Shared Surnames List

#### ▼ GABLE

2

Elizabeth "Eliza" GABLE (1832 - 1915)

William C. Gable (1810 - 1891)

---

#### ➤ GARPESTAD

1

---

#### ▼ Gebel

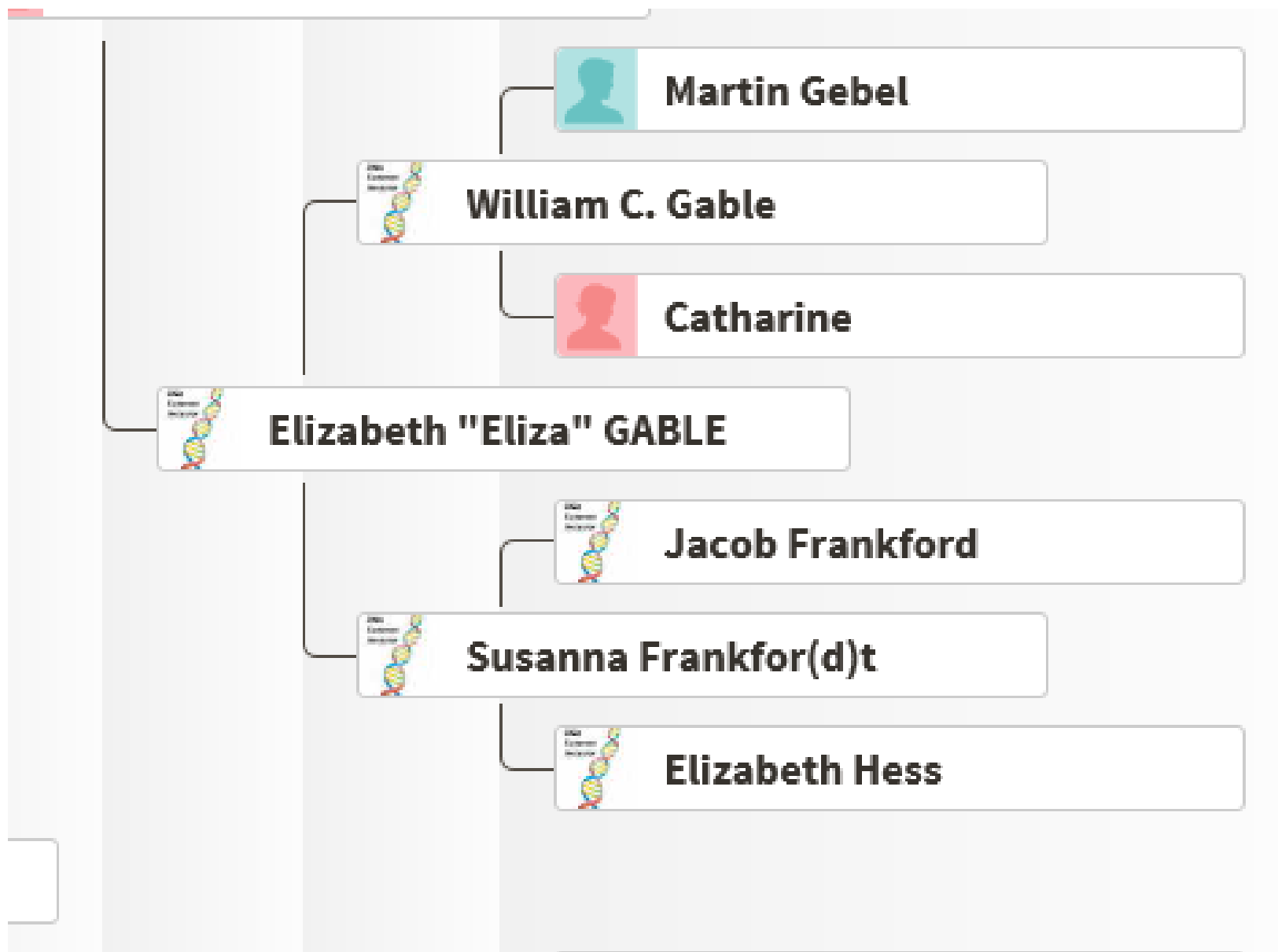
3

Martin Gebel (1776 - 1837)

Wilhelm Gebel (1704 - 1786)

Wilhelm (William) Gebel (1740 - 1810)







**Martin Gebel**

Vital Events (2 of 4 timeline events)

**Birth** 5 Dec 1776  
Lancaster, Lancaster, Pennsylvania, USA

**Death** 1 Apr 1837  
Lancaster, Lancaster, Pennsylvania, USA

More from this family tree

4 timeline events

2 source records

1 stories

0 photos

[View Full Tree](#)

Parents



**Wilhelm (William) Gebel**  
Abt. 1740 - 22 May 1810



**Barbara Weller**  
26 Oct 1753 - Bef 1810

Spouse and Children



**Catharine**  
ABT 1783 - AFT 1850



**Jacob Gabel**  
23 Sep 1808 - 19 Apr 1892






**William C. Gable**  
27 Aug 1810 - 11 Jul 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](#)

 **Pedigree and Surnames**  **Shared Matches**  **Map and Locations**


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

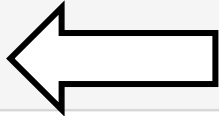
Your DNA results show that you may be related, and comparing family trees is the best way to find out exactly how. We've got a few tricks up our sleeve—automatically showing the surnames, places and people that both family trees share in common.


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... 

**Add Note**

**Select Tree**

# 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


[<](#) DNA matches for Alice Kalush ▾

Map **Search**



## Alice Kalush's DNA Matches BETA



Group: All matches ▾ Filtered by: Add a filter ▾

### Full Sibling


**Martha Bland**  
Managed by alicekalushc

**Sister**  
Shared DNA: 2,634 cM across 76 segments ⓘ


 **131,747 People**  
 Common ancestor



 Add to group  
 my sister

### 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



# Enter the Surname - Do Spelling Variations Separately (Gabel)

< DNA matches for Alice Kalush ▾ Map Search

Alice Kalush's DNA Matches BETA


Search Matches Trees:

Gable



☐ Include similar surnames


Search by birth location Search Cancel

### Full Sibling


**Martha Bland**  
Managed by alicekalushc

**Sister**  
Shared DNA: 2,634 cM across 76 segments ⓘ



 **131,747 People**  
 Common ancestor


★ + Add to group  
 my sister

### 3rd Cousin


**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

### 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  
 (Two Lines) Wilhelm/Daniel, William Gable and Nancy Switzer Daniel Gable

# **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

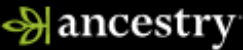
### Shared Matches




[View all shared matches](#)


<div>MB</div> <div><b>Martha Bland</b></div> <div>Immediate Family   2,634 cM shared</div> <div> 131,747 people</div>	<div>HI</div> <div><b>HintonN27</b></div> <div>4th Cousin   54 cM shared</div> <div> 50 people </div>
<div>GA</div> <div><b>gableguy67</b></div> <div>4th Cousin   79 cM shared</div> <div> Unlinked Tree</div>	<div>EM</div> <div><b>Eric Musser</b></div> <div>4th Cousin   46 cM shared</div> <div> No Trees</div>
<div>JM</div> <div><b>Jay Robert Musser</b></div> <div>4th Cousin   56 cM shared</div> <div> No Trees</div>	<div>KS</div> <div><b>Karen Summers</b></div> <div>4th Cousin   32 cM shared</div> <div> Unlinked Tree</div>

**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?

 [Home](#) [Trees](#) [Search](#) [DNA](#) [Help](#) [Extras](#) 1

 Fuller ▾   verystormywind • Your Role: Guest



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

[LifeStory](#) [Facts](#) [Gallery](#)

### Facts

[Show ▾](#)  
[Name and gender ▾](#)

1772  
(AGE)


**Birth**  
1772 • PA

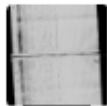
1772


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

### Sources

Ancestry Sources

 1800 United States F  
al Census

 1820 United States F  
al Census





verystormywind

## AncestryDNA

[Select DNA Test](#) ▼



verystormywind



You

### 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 ⓘ

[View match](#)



**Rhubarb62**


**Relationship:** 4th - 6th cousins

**Confidence:** Good ⓘ

[View match](#)

# 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](#)

[Home](#)
[Trees](#)
[Search](#)
[DNA](#)
[Help](#)
[Extras 1](#)

[Upgrade](#)
99+
alicekalushc

# ThruLines™ BETA

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

Filter by: All ▾

**Charles Marvin Gable**  
 Father  
 1918–2004

**Ruth Musser Kraiss**  
 Mother  
 1918–2008

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

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

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


**Mabel Elizabeth Musser**  
 Maternal grandmother  
 -----

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


**Mary A. Rickert**  
 Great-grandmother  
 1861–1922

**Richard Frank Ruth**  
 Great-grandfather  
 1849–1908


**Marie (Mary) Hazel Kumrow**




**Johann Carl Friedrich Kummerow (Kumrow)**  
2nd great-grandfather  
1826–1872




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




**Thomas Kraiss**  
2nd great-grandfather  
1814–1883




**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

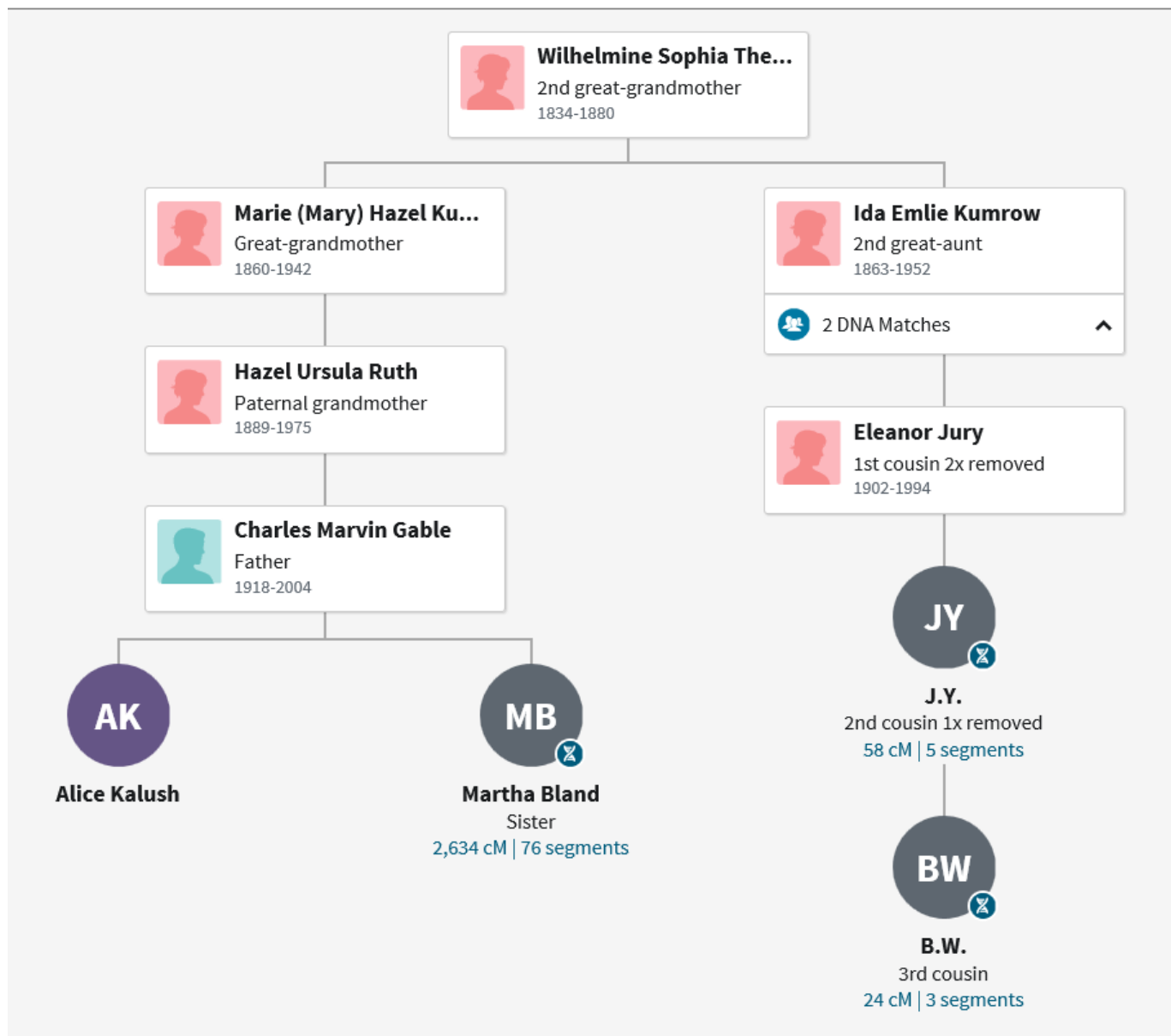


**Susanna Stoner**  
2nd great-grandmother  
1820–1861



**Charles (Carl) Klugh**  
2nd great-grandfather  
1816–1862





# 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

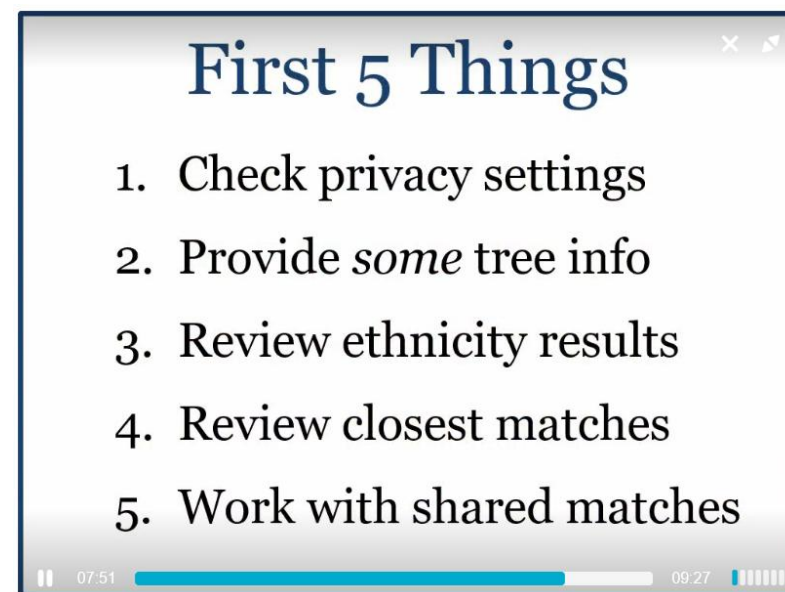
- **Ethnicity sort of equals Geographic Region of Origin**
- **In 2019 Ethnicity Estimates are still rough estimates**
- **But they have been improving in accuracy and are expected to continue to do so**
- **Percentages below 10 percent may still be likely to disappear later**
- **The estimation process 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)



[https://familytreewebinars.com/download.php?webinar\\_id=721](https://familytreewebinars.com/download.php?webinar_id=721)

(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 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.

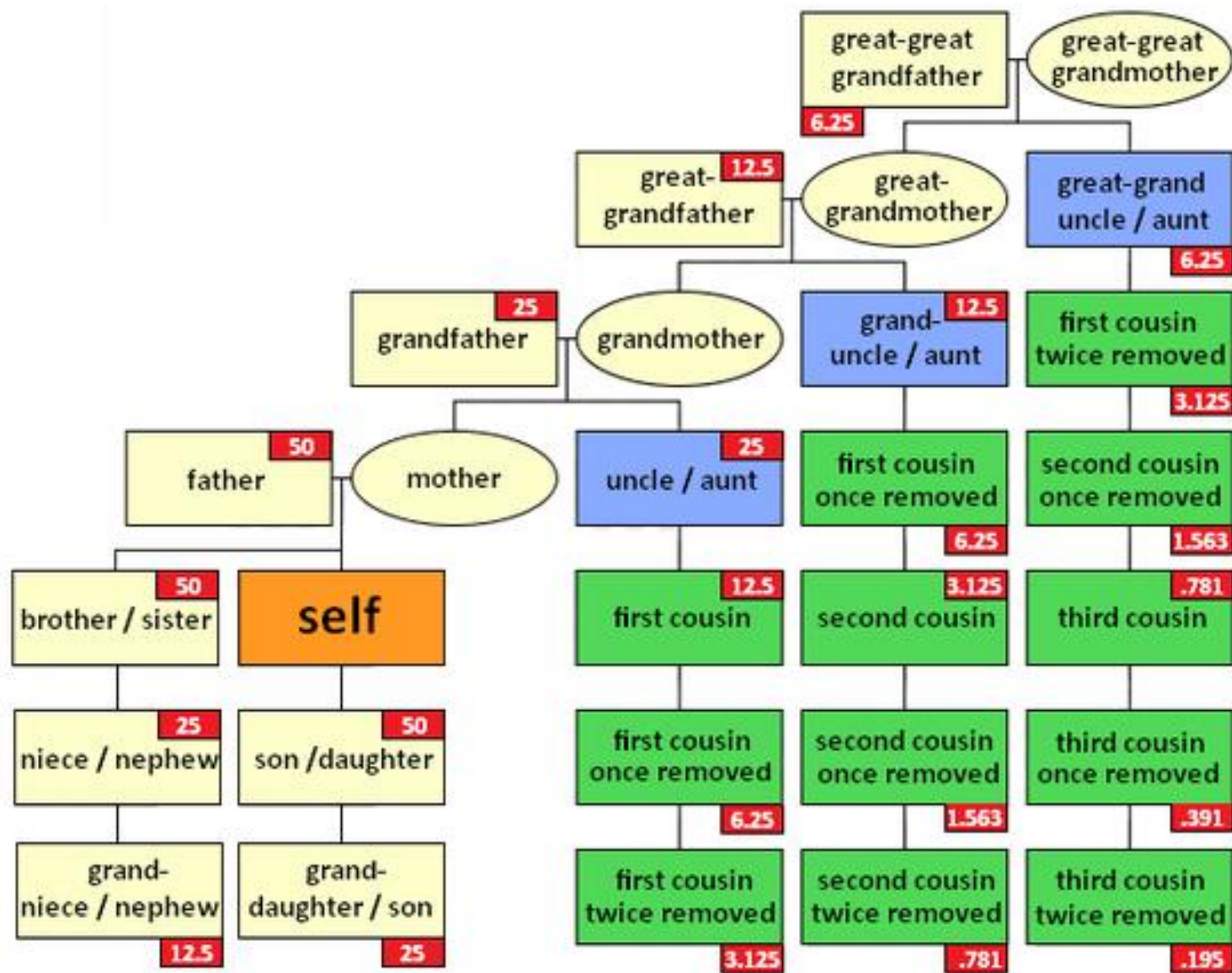
ISOGG Wiki - International Society of Genetic Genealogy - table of contents to their wiki [https://isogg.org/wiki/Wiki\\_Welcome\\_Page](https://isogg.org/wiki/Wiki_Welcome_Page)

The Shared CM Project

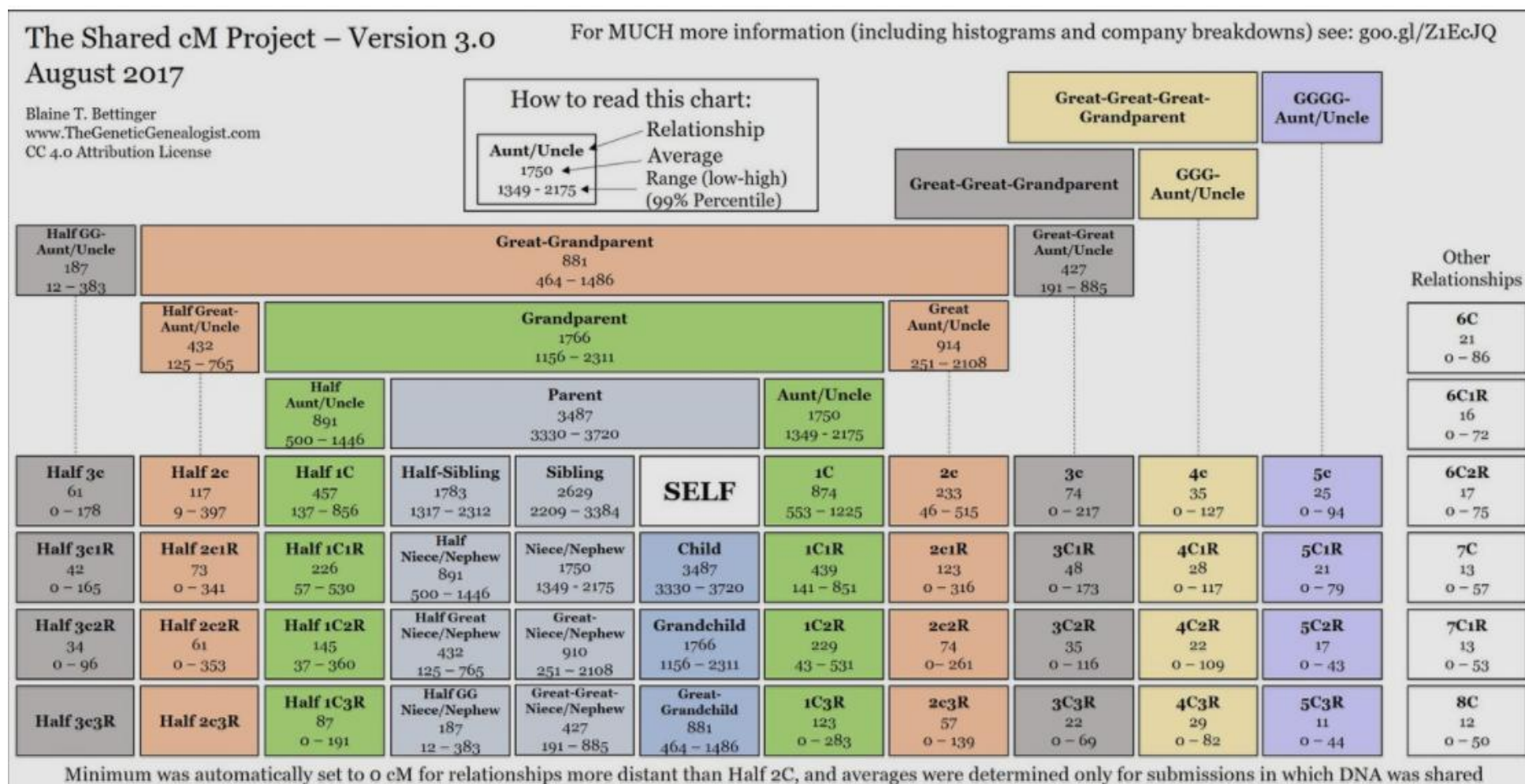
<https://thegeneticgenealogist.com/2015/05/29/the-shared-cm-project/>

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

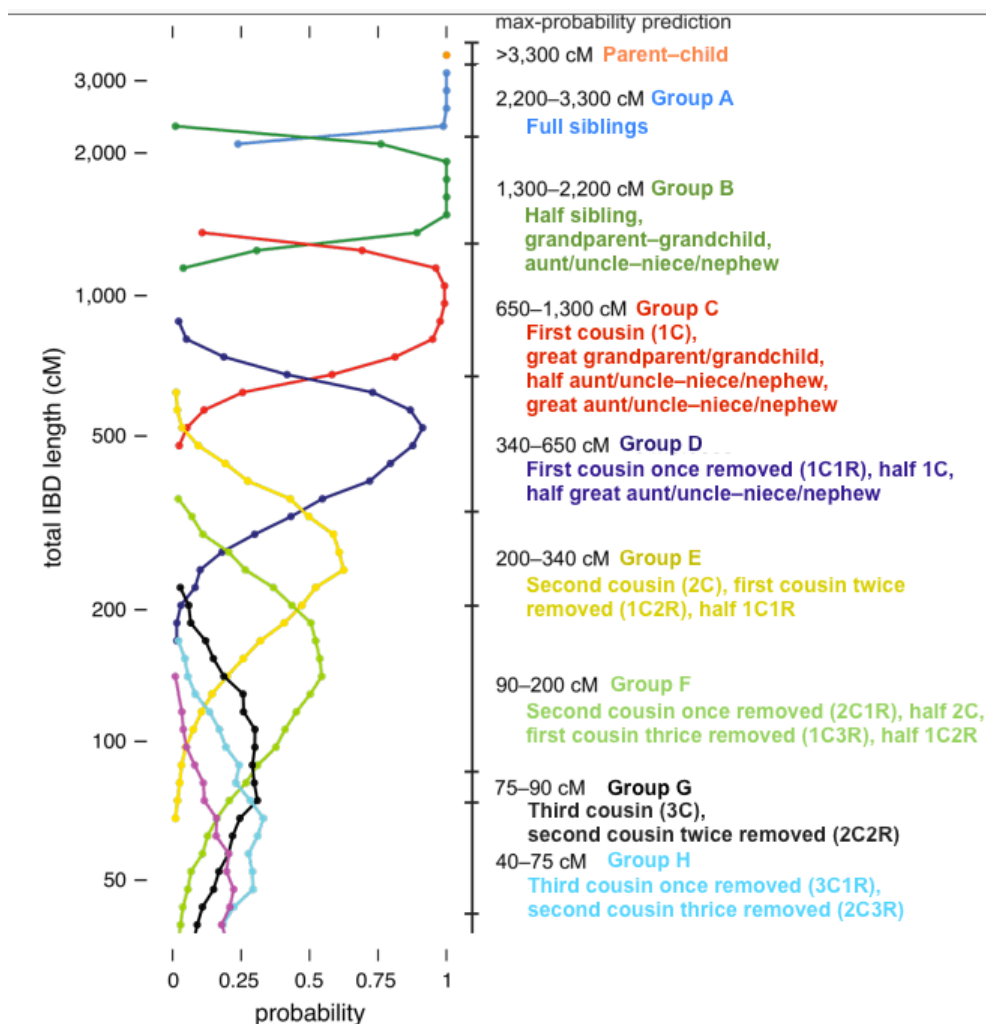
DNA Painter Tool - Type in the centimorgans that you and your match share and get an chart showing how you may be related and other cool tools <https://dnapainter.com/tools/sharedcmv4>



Approximate amount of shared DNA (in centimorgans)	Possible relationship
3,475	Parent, child, or identical twin
2,400—2,800	Full sibling (including fraternal twins)
1,450—2,050	Grandparent, aunt, uncle, half—sibling
680—1,150	1st cousin, great—grandparent
200—620	2nd cousin
90—180	3rd cousin
20—85	4th cousin
6—20	Distant cousin: 5th cousin — 8th cousins



<sup>1</sup> <https://thegeneticgenealogist.com/2015/05/29/the-shared-cm-project/>; <https://www.yourdnaguide.com/scp>



<https://thednageek.com/the-limits-of-predicting-relationships-using-dna/>

<https://www.ancestry.com/dna/resource/whitePaper/AncestryDNA-Matching-White-Paper>

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).



# DNA Painter - <https://dnapainter.com/tools/sharedcmv4>

### Filter

Enter the total number of cM for your match here:

30

▼

[show %](#)

reset

### How to read this chart

Relationship

Average

Range

(low to high)

(99th percentile)

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 <a href="#">The DNA Geek</a> )	
54.40%	6C 6C1R 5C 6C2R 4C1R 5C1R 7C Half 3C2R 4C2R 5C2R 7C1R 3C3R 4C3R 5C3R 8C or more distant
17.00%	Half 3C 3C1R Half 2C2R 2C3R
17.00%	4C Half 3C1R 3C2R
9.00%	3C Half 2C1R 2C2R Half 1C3R
2.60%	Half 1C2R † Half 2C 2C1R 1C3R
~ 0%	** Half GG-Aunt / Uncle Half GG-Niece / Nephew
** 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 the bounds of the recorded cM range (99th percentile)	



						Great-Great-Great-Grandparent		GGGG Aunt / Uncle			
						Great-Great-Grandparent		GGG Aunt / Uncle			
Half GG-Aunt / Uncle 187 12 – 383	Great-Grandparent 881 464 – 1486						Great-Great-Aunt / Uncle 427 191 – 885				Other Relationships
	Half Great-Aunt / Uncle 432 125 – 765	Grandparent 1766 1156 – 2311				Great-Aunt / Uncle 914 251 – 2108				6C 21 0 – 86	
		Half Aunt / Uncle 891 500 – 1446	Parent 3487 3330 – 3720			Aunt / Uncle 1750 1349 – 2175					6C1R 16 0 – 72
Half 3C 61 0 – 178	Half 2C 117 9 – 397	Half 1C 457 137 – 856	Half Sibling 1783 1317 – 2312	Sibling 2629 2209 – 3384	SELF	1C 874 553 – 1225	2C 233 46 – 515	3C 74 0 – 217	4C 35 0 – 127	5C 25 0 – 94	6C2R 17 0 – 75
Half 3C1R 42 0 – 165	Half 2C1R 73 0 – 341	Half 1C1R 226 57 – 530	Half Niece / Nephew 891 500 – 1446	Niece / Nephew 1750 1349 – 2175	Child 3487 3330 – 3720	1C1R 439 141 – 851	2C1R 123 0 – 316	3C1R 48 0 – 173	4C1R 28 0 – 117	5C1R 21 0 – 79	7C 13 0 – 57
Half 3C2R 34 0 – 96	Half 2C2R 61 0 – 353	Half 1C2R 145 37 – 360	Half Great-Niece / Nephew 432 125 – 765	Great-Niece / Nephew 910 251 – 2108	Grandchild 1766 1156 – 2311	1C2R 229 43 – 531	2C2R 74 0 – 261	3C2R 35 0 – 116	4C2R 22 0 – 109	5C2R 17 0 – 43	7C1R 13 0 – 53
Half 3C3R	Half 2C3R	Half 1C3R 87 0 – 191	Half GG-Niece / Nephew 187 12 – 383	Great-Great-Niece / Nephew 427 191 – 885	Great-Grandchild 881 464 – 1486	1C3R 123 0 – 283	2C3R 57 0 – 139	3C3R 22 0 – 69	4C3R 29 0 – 82	5C3R 11 0 – 44	8C 12 0 – 50