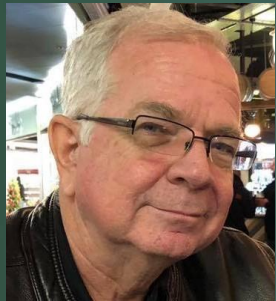


All About GEDMatch

April 11, 2022

Family History Society of Arizona



KEN WATERS

@FAMILYTREEAZ

[HTTP://FAMILYTREEAZ.COM/PRESENTATIONS](http://familytreeaz.com/presentations)

KEN@FAMILYTREEAZ.COM





All slides and handouts can be found at:
<http://www.familytreeaz.com/Presentations/>

Some Caveats...

- ▶ GEDMatch can be confusing to newcomers
 - ▶ This presentation will gently introduce you to some of the main features, hopefully without losing you!
- ▶ GEDMatch **does** have its share of controversy
 - ▶ Primarily due to a policy of allowing Investigative Genetic Genealogy (IGG) use
- ▶ This presentation is for genealogists so we will **not** be focusing on the IGG component other than the privacy settings

What is GEDMatch?

- ▶ A web site that was created in 2010 for genealogists to allow matching of DNA kits from different testing companies
- ▶ Founded by Curtis Rogers and John Olson
- ▶ Free to create an account



Curtis Rogers enjoys helping people solve family history puzzles. He inadvertently created a database that can now identify 60 percent of Americans of Northern European ancestry.
Scott McIntyre for The New York Times

Source: New York Times

Primary Features

- ▶ Upload DNA kits from any of the testing companies
 - ▶ Ancestry, 23andMe, MyHeritage, FamilyTreeDNA, LivingDNA –and—More!
 - ▶ Look for matches with other uploaded DNA kits
- ▶ Ability to examine matches in greater detail using chromosome browser
 - ▶ Start/stop markers for shared segments
- ▶ A variety of admixture (ethnicity) tools
- ▶ Rudimentary family tree capability
- ▶ Numerous more advanced analysis tools

Getting Started

- ▶ Create an account at:
- ▶ <https://app.gedmatch.com/register.php>

[GED
match]

Register

Name *

Alias (Optional)

Email Address *

Re-type Email Address *

Password *

Confirm Password *

REGISTER

Confirmation

- ▶ Check your email for confirmation code and enter it

[GED
match]

An email has been sent to mymesaweather@gmail.com with a 'Registration Confirmation Code'. Please copy that code from your email, and paste it in the space below. Then, click on the 'Confirm' button below to complete the registration process.
NOTE: This Registration Confirmation Code is NOT your password.
Do NOT close this page until you have completed that process, or you will have to start registration over.

If you do not receive a confirmation email within a few minutes, click [HERE](#)

CONFIRM



GEDmatch.Com Registration Confirmation Code Inbox x



GEDmatch <do_not_reply@gedmatch.com>
to me ▾

Your registration confirmation code is: **23210031**

You should copy and paste this code in the place provided on the registration page.

If you did not register on GEDmatch.Com within the last hour, then you should disregard this notice, and do not need to make any response.

Log back in to complete the process

[GED
match]

✓ **Successfully Registered**

Congratulations you have successfully registered at GEDmatch!

After logging in on the login page you will be presented with the terms of service (TOS) to accept.

Click the button on the top right to return to login page to enter your email and password to login.

Accept Terms

- ▶ Read the terms and accept them
 - ▶ Warning---the terms are very, very long
- ▶ Only real option here is to accept
- ▶ I will discuss more on some of this later in this presentation

Option #1 - Accept

I have read the GEDmatch Terms of Service, and I agree to all terms. Click [HERE](#) to indicate that you accept all provisions described in GEDmatch Terms of Service.

Option #2 - Reject

I do not wish to continue using GEDmatch.Com. Therefore, I want to delete my GEDmatch registration and remove all data from GEDmatch servers that I may have uploaded to the site.

Click [HERE](#) to permanently delete your registration, and remove all your data from GEDmatch servers. **This action cannot be undone.**

Option #3 - Decide Later

I would like to think about this, and do not want to take any action at this time. Click [HERE](#) to return to the login page. Selecting this option will have no effect on data that you have uploaded to GEDmatch servers.

You will not be allowed to enter the site until you have accepted the Terms of Service.

Welcome Jill Brown

Start your incredible DNA journey from here!

- ▶ New user? Watch "How To Use GEDmatch"
- ▶ GEDmatch and Law Enforcement Matching

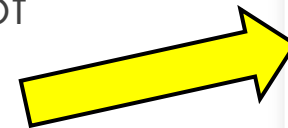
Message of the Day


New Tool & New Integration

We have launched a standalone Relationship Probability Calculator in our Free tools and mitoYDNA in the [new GEDmatch design](#).

To learn more about these new features, read about our latest release notes [here](#).

- ▶ Profile is now set up
- ▶ Note you will have a "User Profile" number
 - ▶ That will be unique to you and should not be confused with any kit # codes (more on that later)
- ▶ No need to remember this number as it will not be used to log in



 Profile VIEW/EDIT

User Profile 1386811

Name Jill Brown

Email mymesaweather@gmail.com

Registered User

The number of online users is 77

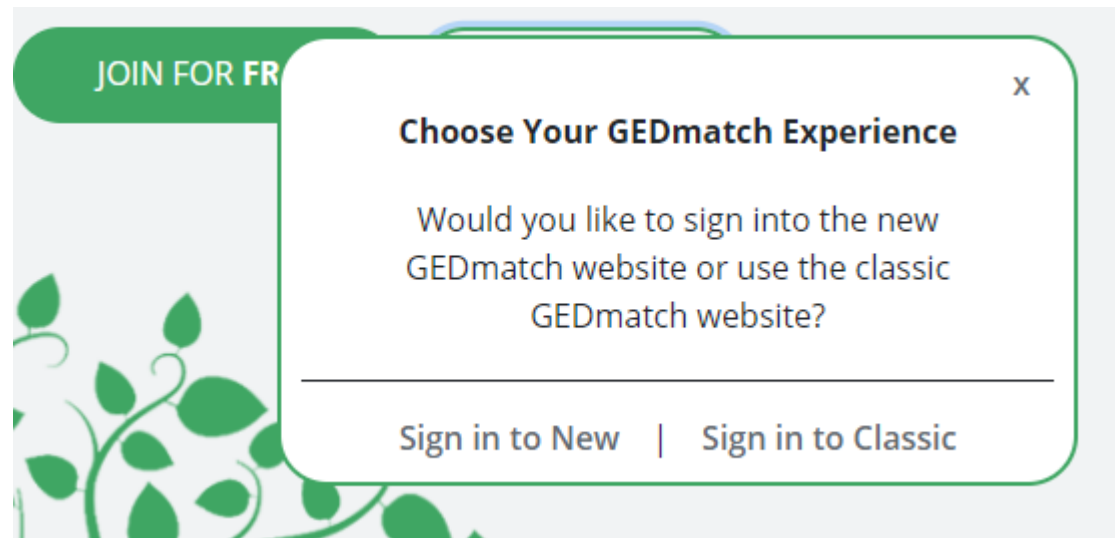
LEGEND

You have not uploaded any DNA kits.
[Click here to upload your DNA data.](#)

You have not uploaded any GEDCOM (family tree) resources.
[Click here to upload a GEDCOM.](#)

One note about logging in

- ▶ When you first click login you'll get a choice to use the "New" website or the "Classic" website
- ▶ That's entirely your choice but I recommend to use the "New" one so that you don't have to readjust if/when the "Classic" one is removed



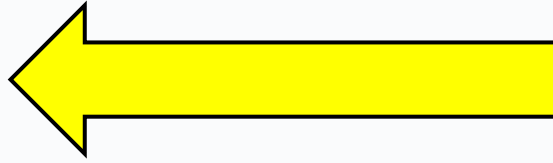


A Look at the Main Page

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Profile

VIEW/EDIT

User Profile **19110**
 Name **Ken Waters**
 Email **familytreeaz.gedmatch@gmail.com**
Tier 1 Member
Tier 1 Paid Until 2022-05-09 16:23:09

The number of online users is 103

LEGEND

(Status indicators shown to the right of each kit below)

✓	Kit has completed all processing and has good status
✎	Click on pencil if you wish to EDIT or DELETE kit profile
2	Likely duplicate - may need to be deleted
R	Kit has completed all processing and has good status
?	Unknown Status

Click on blue kit number to go directly to one-to-many results

Your DNA Resources

19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎
19110	19110	✎



Information

- User Lookup - Find information on your matches.
- How to use GEDmatch
- GEDmatch Terms of Service
- GEDmatch info about you
- GEDmatch Education **NEW**
- Support Request



Upload Your DNA

Generic Uploads (23andme, FTDNA, AncestryDNA, most others)



Free Tools

- One-To-Many - Limited Version
- Relationship Probability
- One-to-One Autosomal DNA Comparison
- One-to-One X-DNA Comparison
- Admixture (heritage)
- Admixture / Oracle with Population Search
- People who match both, = 5, = 6, 7 kits

1 - Help

- ▶ Some help here at the top left
- ▶ The 2nd link is solely concerning IGG (law enforcement matching)

Welcome Ken Waters

Start your incredible DNA journey from here!

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- ▶ GEDmatch and Law Enforcement Matching

2 - Profile

- ▶ User Profile #, Name
- ▶ Email
- ▶ If you are a Tier 1 Member you'll see status here
- ▶ Number of online users



Profile

User Profile	19110
Name	Ken Waters
Email	ken.waters.gottschall @gmail.com
	Tier 1 Member
	Tier 1 Paid Until 2022-05-09 16:23:09

The number of online users is 103

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The number of online users is 103

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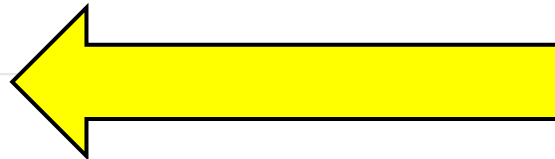
LEGEND

(Status indicators shown to the right of each kit below)

- ✓ Kit has completed all processing and has good status
- ✎ Click on pencil if you wish to EDIT or DELETE kit profile
- 2 Likely duplicate - may need to be deleted
- R Kit has completed all processing and has good status
- ? Unknown Status

Click on blue kit number to go directly to one-to-many results

Your DNA Resources



Information

User Lookup - Find information on your matches.

How to use GEDmatch

GEDmatch Terms of Service

GEDmatch info about you

GEDmatch Education **NEW**

Support Request



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Generic Uploads (23andme, FTDNA, AncestryDNA, most others)



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Relationship Probability

One-to-One Autosomal DNA Comparison

One-to-One X-DNA Comparison

Admixture (heritage)

Admixture / Oracle with Population Search

People who match both, ...

3 - DNA Kits in your profile

- ▶ Each DNA kit that you upload will show here
- ▶ Each kit has a kit # (assigned when uploaded)

- ▶ If restricted
- ▶ Police/IGG Access

Your DNA Resources

The screenshot shows a list of DNA kits under the heading 'Your DNA Resources'. A yellow arrow points from the text 'Each DNA kit that you upload will show here' to the list. A green box highlights the 'Kit name' column. A yellow box labeled 'Edit settings' has a green arrow pointing to a pencil icon in the right-hand column. A blue arrow points from the text 'Police/IGG Access' to a 'POLICE' icon in the right-hand column.

A512345	R	✓	Kit name	
A512345		✓	Kit name	
A712345	R	✓	Kit name	
A512345	y	✓	Kit name	
A512345		✓	Kit name	

Edit settings

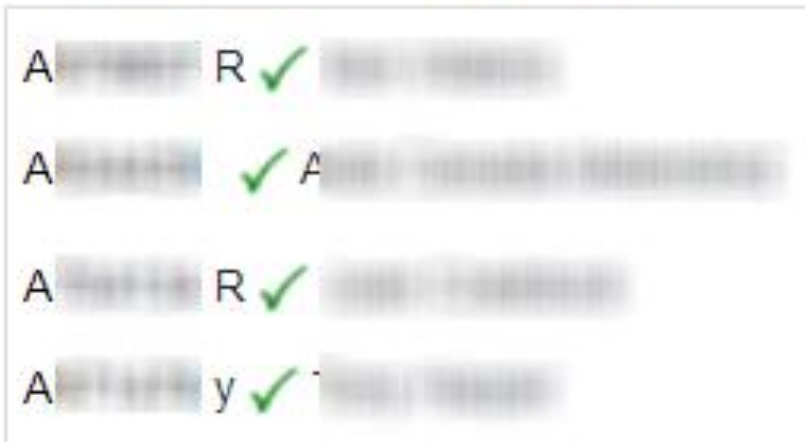
POLICE

POLICE

POLICE

Kit Settings

Your DNA Resources



The screenshot shows a list of DNA kits. Each row contains a kit name (partially obscured), a status indicator (letter or symbol), and a green checkmark. The status indicators are: 'R', 'A', 'R', and 'y'.

A [obscured]	R	✓	[obscured]
A [obscured]		✓	A [obscured]
A [obscured]	R	✓	[obscured]
A [obscured]	y	✓	[obscured]

LEGEND

(Status indicators shown to the right of each kit below)

✓	Kit has completed all processing and has good status
✎	Click on pencil if you wish to EDIT or DELETE kit profile
2	Likely duplicate - may need to be deleted
R	Kit has completed all processing and has good status
?	Unknown Status

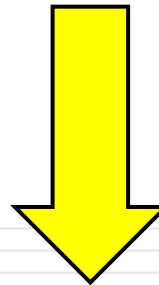
R – **really** means a “research” kit
y – means kit is visible to others

When you click on the edit “pencil”

- ▶ “Opt In” – allow law enforcement kit owners to “see” your kit
- ▶ “Opt Out” – do not allow LE access
- ▶ “Private” – no one can see your kit
- ▶ “Research” – allow matching to other kits but they can’t “see” you

Public Profile

Research



Change Access: Opt In ⓘ
 Opt Out ⓘ
 Private ⓘ
 Research ⓘ

CHANGE

Welcome Ken Waters

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VIEW/EDIT



Information

User Lookup - Find information on your matches.

How to use GEDmatch

GEDmatch Terms of Service

GEDmatch info about you

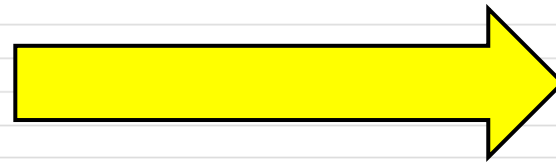
GEDmatch Education **NEW**

Support Request

LEGEND

(Status indicators shown to the right of each kit below)

- ✓ Kit has completed all processing and has good status
- ✎ Click on pencil if you wish to EDIT or DELETE kit profile
- 2 Likely duplicate - may need to be deleted
- R Kit has completed all processing and has good status
- ? Unknown Status



Upload Your DNA

Generic Uploads (23andme, FTDNA, AncestryDNA, most others)

Click on blue kit number to go directly to one-to-many results

Your DNA Resources



Free Tools

One-To-Many - Limited Version

Relationship Probability

One-to-One Autosomal DNA Comparison

One-to-One X-DNA Comparison

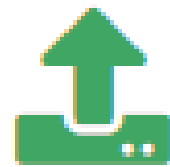
Admixture (heritage)

Admixture / Oracle with Population Search

People who match both, ...

Upload a Kit

- ▶ Click on the upload link



Upload Your DNA

Generic Uploads (23andme, FTDNA, AncestryDNA, most others)

First Step: Upload a DNA kit

► Enter basic information about the test-taker

1 Donor Information

Name of Donor

Johnny Appleseed

Please use the DNA donor's real name here. If you don't want the real name displayed, you may also enter an alias in the box below.

Alias (optional)

If you don't want the donor's full name displayed, you may substitute an alias. Otherwise, leave this blank. If you enter an alias here, it will be shown on report pages instead of the name you entered above. The alias should either be similar to your full name, or the same as the 'screen name' that you use on forums. GEDmatch site administrators reserve the right to remove any alias that is not appropriate in their opinion.

Sex of Donor

Male Female

What is your Mitochondrial haplogroup (if known)?

What is this kit's mtDNA mitoYDNA ID (if applicable)?

Males Only (or females with a male sibling who has been tested):

What is your Y haplogroup (if known)?

What is this kit's Y-DNA mitoYDNA ID (if applicable)?

Name of Testing Company, or other source

Select a Company or Source

Name of Testing Company, or other source

Select a Company or Source

Select a Company or Source

23andMe

24Genetics

Ancestry

Atlas

Complete Genomics

DNA Land

FTDNA

Full Genomes

Gencove

GeneByGene

Genes For Good

Genos

GPS Origins

GSA

HGDP (Stanford)

Living DNA

MyHeritage

NatGeo

Oxford (FTDNA)

Upload DNA kit

- ▶ This next step is important and should be carefully chosen
- ▶ Most genealogists would select one of the first 3 choices
- ▶ The other choices are primarily for IGG (Investigative Genetic Genealogy) which often deals with either identification of unknown decedents or with criminal investigations

2 Raw Data to GEDmatch

When you upload Raw Data to GEDmatch, you agree that the Raw Data is one of the following. Select **one** option

- Your DNA
- DNA of a person for whom you are a legal guardian
- DNA of a person who has granted you specific authorization to upload their DNA to GEDmatch
- DNA of a person whose identity is known by you and who is known to be deceased
- An artificial DNA kit
if and only if: (1) it is intended for research purposes; and (2) it is not used to identify anyone in the GEDmatch database, or
- DNA obtained from an artifact
if and only if: (1) you have a reasonable belief that the Raw Data is DNA from a previous owner or user of the artifact rather than from a living individual; and (2) that previous owner or user of the artifact is known to you to be deceased.
- Anonymized sample for a donor to a large scale population study
Please contact GEDmatch administrators for populations greater than 50 individuals.
- None of the above
If your DNA data does not fit any of the above categories, it will not be permitted.

Privacy setting for this kit

- ▶ Another important step to carefully consider
- ▶ This step can be modified later if necessary
- ▶ Suggest one of the top two options
 - ▶ If you do not want your DNA kit to be used to search IGG then select “Opt Out”

3 Privacy Options

Select one of the following privacy options for this kit:

Opt In

Most Popular

We will compare your DNA kit to all other kits in the GEDmatch database to find your matching genetic relatives. Kits in the database include those submitted by users undertaking personal genetic genealogy research, adoptee searches, users (including law enforcement) attempting to identify unidentified human remains, and law enforcement attempting to identify perpetrators of violent crimes. Your kit **WILL** be compared with kits submitted by law enforcement to identify perpetrators of violent crimes. The operators of GEDmatch encourage everybody to select this option.

Research

This kit will not be shown in match result reports generated for other kits. Genealogy and Genetic Genealogy require the sharing of information. This option is provided primarily for artificially created research kits, but may be used for regular uploads if you have specific reasons for doing so.

Opt Out

We will compare your DNA kit to all other kits in the GEDmatch database to find your matching genetic relatives. Kits in the database include those submitted by users undertaking personal genetic genealogy research, adoptee searches, and users (including law enforcement) attempting to identify unidentified human remains. Your kit **WILL NOT** be compared with kits submitted by law enforcement to identify perpetrators of violent crimes.

Private

This kit will not be available for any matching. The kit will be in the database, and it will be batch processed, but no comparison results will be shown unless this privacy setting is changed by you later.

Final step

- ▶ Click “Choose File” and navigate on your computer to the DNA file you downloaded
 - ▶ For help on downloading see <https://app.gedmatch.com/UploadHelp.php>

4 File Upload

Click on "Choose File", "Browse", or similar wording (depends on your browser) to find the raw DNA data file on your computer.

Your data must be Build 37 (GRCh37/hg19)

Choose File No file chosen

Click "Upload" to send your DNA data to GEDmatch

UPLOAD

Note: Please Wait for Progression Display

Make sure you wait for the next several minutes. If you don't wait for it, you have probably lost your connection.



GEDmatch® Generic DNA file upload

Wait for several minutes, you

Upload Time: 2022-Apr-05 00:03:08 UTC
Software Ver: 2022-Mar-10 22:15:25
Email: mymesaweather@gmail.com
Donor Name: Johnny Appleseed
Your Browser: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84 Safari/537.36

Your DNA data file will now be processed on the server. Processing milestones are listed below.
You should see the word 'Finished' at the bottom of the page when processing is complete. If you leave this page before it is finished, your data may be lost.
Processing normally takes less than a minute.
If you see the word 'ERROR', then your file did not complete processing, and you will need to try your upload again.
File size inside Zip: 18841299

Processing file...

File is from AncestryDNA.Com
File is Build 37 format
Processing Chromosomes...

1234567891011121314 ..15 ..16 ..17 ..1819 ..20 ..21 ..22 ..X ..Y 25

Kit Num: MN6213352

Assigned kit number: **MN6213352** Write this number down.

- ▶ Your newly uploaded DNA kit will now show on the homepage
- ▶ All uploaded DNA kits have a kit ID
- ▶ Users can upload multiple DNA kits if they wish---each will have a unique kit ID
- ▶ It will take 24-48 hours for the kit to be fully available to be compared within the kit database
 - ▶ Some features will be available nearly immediately such as comparisons to individual kits and ethnicity estimates
- ▶ NOTE: I created this profile and uploaded a DNA kit solely for the purposes of this example
 - ▶ **BOTH have since been deleted!**



Profile

User Profile 1386811

Name Jill Brown

Email mymesaweather@gmail.com

Registered User

The number of online users is 86

LEGEND

(Status indicators shown to the right of each kit below)

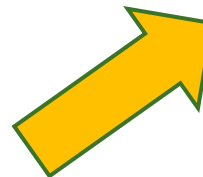
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Click on blue kit number to go directly to one-to-many results

Your DNA Resources

MN6213352 y Johnny Appleseed

You have not uploaded any GEDCOM (family tree) resources.
Click here to upload a GEDCOM.



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VIEW/EDIT



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- GEDmatch Terms of Service
- GEDmatch info about you
- GEDmatch Education **NEW**
- Support Request

LEGEND

(Status indicators shown to the right of each kit below)

- ✓ Kit has completed all processing and has good status
- ✎ Click on pencil if you wish to EDIT or DELETE kit profile
- 2 Likely duplicate - may need to be deleted
- R Kit has completed all processing and has good status
- ? Unknown Status

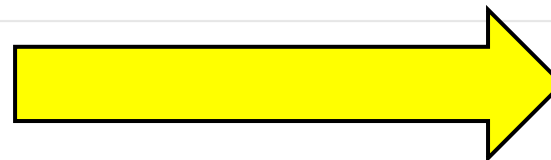


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Generic Uploads (23andme, FTDNA, AncestryDNA, most others)

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Your DNA Resources



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- One-To-Many - Limited Version
- Relationship Probability
- One-to-One Autosomal DNA Comparison
- One-to-One X-DNA Comparison
- Admixture (heritage)
- Admixture / Oracle with Population Search
- People who match both,

Free Tools!

- ▶ This is the menu you want to become familiar with for the primary tools
- ▶ For this talk we will only be discussing 4 of these



Free Tools

★ [One-To-Many](#) - Limited Version

Relationship Probability

★ [One-to-One](#) Autosomal DNA Comparison

One-to-One X-DNA Comparison

★ [Admixture](#) (heritage)

Admixture / Oracle with
Population Search

People who match both,
or 1 of 2 kits

DNA File Diagnostic Utility

Analyze DNA file upload for potential problems.

★ [Are your parents related?](#)

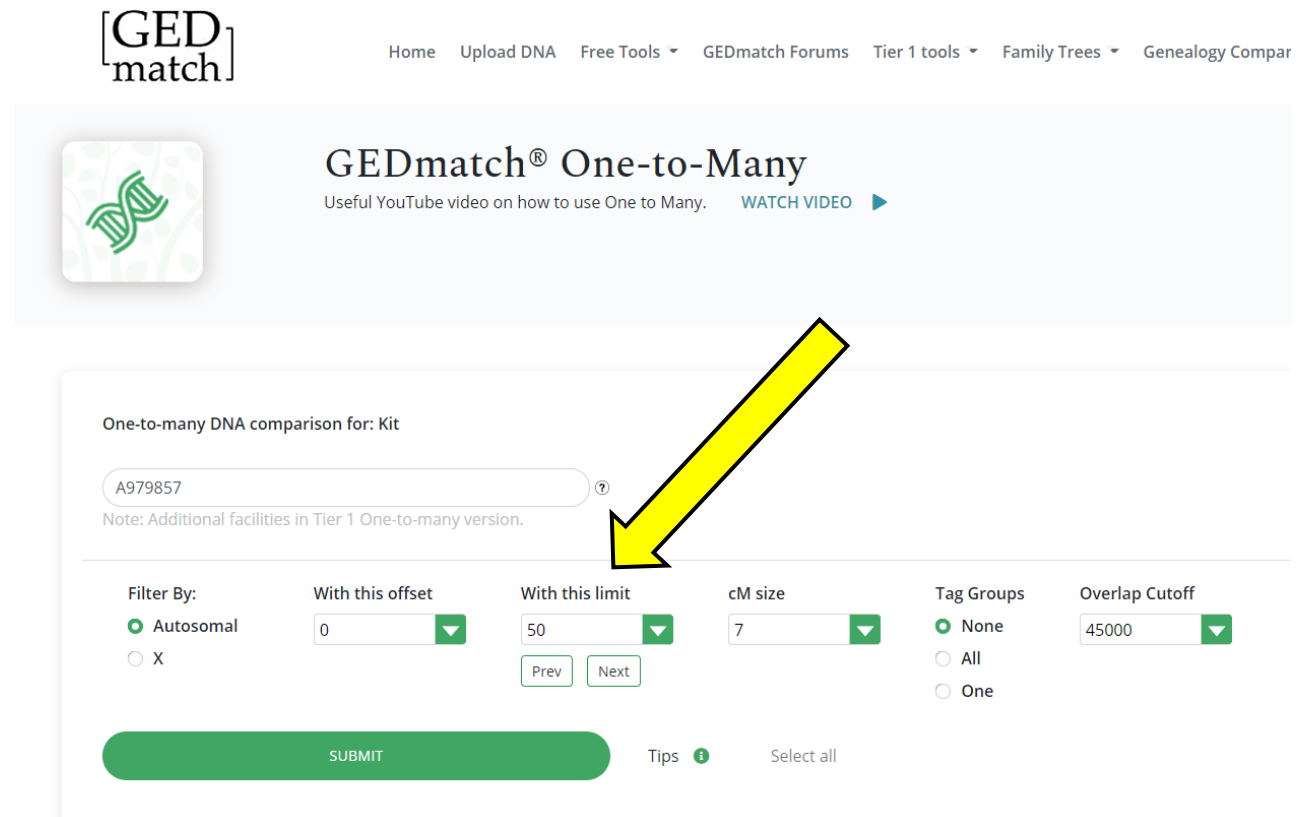
3-D Chromosome Browser

Archaic DNA Matches

Ancestor Projects

One-to-Many

- ▶ Enter one kit #
- ▶ ...or, you can simply click on the kit # from your DNA kit list if it's one of your own kits
- ▶ Recommend accepting all the defaults
 - ▶ EXCEPT: maybe the limit as you might want to see more than 50 matches



GEDmatch

Home Upload DNA Free Tools GEDmatch Forums Tier 1 tools Family Trees Genealogy Compar

GEDmatch® One-to-Many

Useful YouTube video on how to use One to Many. [WATCH VIDEO](#)

One-to-many DNA comparison for: Kit

A979857

Note: Additional facilities in Tier 1 One-to-many version.

Filter By: Autosomal X

With this offset: 0

With this limit: 50

cM size: 7

Tag Groups: None All One

Overlap Cutoff: 45000

[SUBMIT](#) [Tips](#) [Select all](#)

One-to-Many

- ▶ Sorted by Match strength (centiMorgans)

Kit # **Name** **E-Mail** **Total cMs Shared**

Select	Kit #	Name (alias)	E-Mail	GED WikiTree	Age(days)	Type	Sex	Haplogroup		Autosomal			X-DNA		Source	Overlap
								Mt	Y	Total cM	Largest	Gen	Total cM	Largest		
<input type="checkbox"/>	A	Jo	fa	GED	3079	2	F			3587.1	263.7 Q	1.00	196.1	196.1	Migration - F2 - A	N/A
<input type="checkbox"/>	SW	Ke	fa	GED	697	2	M	H1c1	R-M269	3577.5	151.8 Q	1.00	187.8	105.1	Ancestry	427055
<input type="checkbox"/>	AT	Ke	fa		583	2	M			3577.5	151.8 Q	1.00	187.8	105.1	Ancestry	427056
<input type="checkbox"/>	NH	Jo	fa	GED	697	2	F			3577.5	151.8 Q	1.00	181.1	98.4	Ancestry	327698
<input type="checkbox"/>	A	Er	fa	GED	2744	2	M		R-M269	1627.8	136.4 Q	1.57	0	0	Migration - F2 - A	N/A
<input type="checkbox"/>	NC	Er	fa	GED	697	2	M			1587.3	136.3 Q	1.59	0	0	Ancestry	313948
<input type="checkbox"/>	A	*M	fa		2204	2	M		R-M269	745	128.9 Q	2.13	0	0	Migration - F2 - A	N/A

One-to-One



GEDmatch® One-to-one

Useful YouTube video on using the One to One DNA compa

- ▶ Need two kit #s to be able to use
 - ▶ Can get the numbers from the one-to-many list –or–
 - ▶ ...if someone shares a kit # with you to use to compare
 - ▶ Recommend using all the defaults although if you do not want the chromosome segments you can select “Position Only”

This utility allows you to make detailed comparisons between Autosomal DNA kits. Results m

Kit Number 1:

Kit Number 2:

Show graphic bar/numeric positions for each Chromosome?

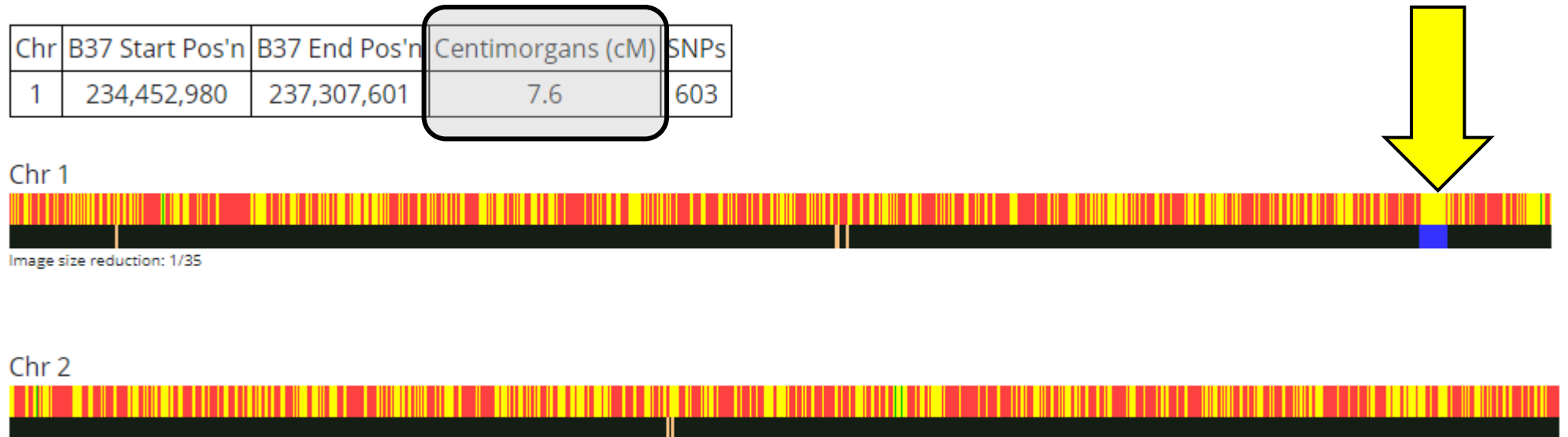
- Graphics and Positions
- Position Only
- Graphic Only

Show graphic bar/numeric positions for each Chromosome?

- Graphics and Positions
- Position Only
- Graphic Only

One-to-One

- ▶ Each of the 22 autosomal chromosomes will be displayed
- ▶ Blue segment indicates HIR (half identical region)



One-to-One

- ▶ An example of a parent-child match – entire chromosome highlighted

Chr	B37 Start Pos'n	B37 End Pos'n	Centimorgans (cM)	SNPs
1	752,721	102,285,489	130.7	23,514
1	102,292,110	249,202,567	150.8	27,878

Chr 1



Image size reduction: 1/52

Chr	B37 Start Pos'n	B37 End Pos'n	Centimorgans (cM)	SNPs
2	18,856	243,048,760	263.6	50,938

Chr 2



Image size reduction: 1/51

Chr	B37 Start Pos'n	B37 End Pos'n	Centimorgans (cM)	SNPs
3	63,411	197,833,758	224	41,913

One-to-One

- ▶ An example of a uncle-nephew pair

Chr	B37 Start Pos'n	B37 End Pos'n	Centimorgans (cM)	SNPs
2	38,932,056	67,072,059	25.7	6,980
2	117,375,251	243,048,760	136.3	25,190

Chr 2



Image size reduction: 1/51

Chr	B37 Start Pos'n	B37 End Pos'n	Centimorgans (cM)	SNPs
3	61,495	7,557,251	21.3	2,777
3	68,320,679	90,417,760	17.1	3,838
3	93,545,404	193,711,182	105.7	19,801

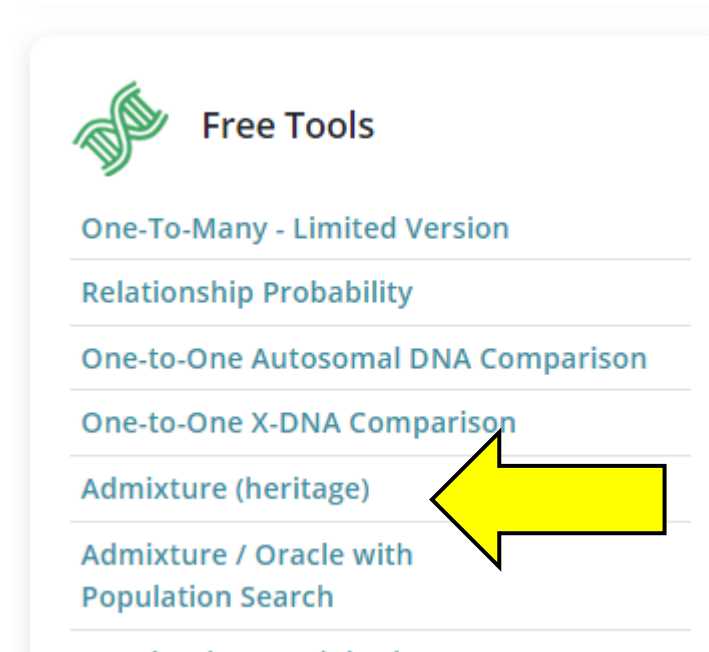
Chr 3



Image size reduction: 1/42

Admixture (ethnicity)

- ▶ Select from Free Tools



The screenshot shows a menu titled "Free Tools" with a DNA double helix icon. The menu items are listed below the title, separated by horizontal lines. A yellow arrow points to the "Admixture (heritage)" option.

- Free Tools
 - One-To-Many - Limited Version
 - Relationship Probability
 - One-to-One Autosomal DNA Comparison
 - One-to-One X-DNA Comparison
 - Admixture (heritage)
 - Admixture / Oracle with Population Search

Admixture (ethnicity)

► Select from Free Tools



Free Tools

One-To-Many - Limited Version

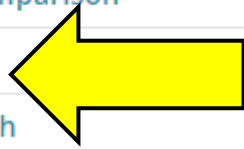
Relationship Probability

One-to-One Autosomal DNA Comparison

One-to-One X-DNA Comparison

Admixture (heritage)

Admixture / Oracle with
Population Search



Home Upload DNA Free Tools ▾ GEDmatch Forums Tier 1 tools



Admixture Utilities

Select the project

Select the project: Select ▾ ⓘ

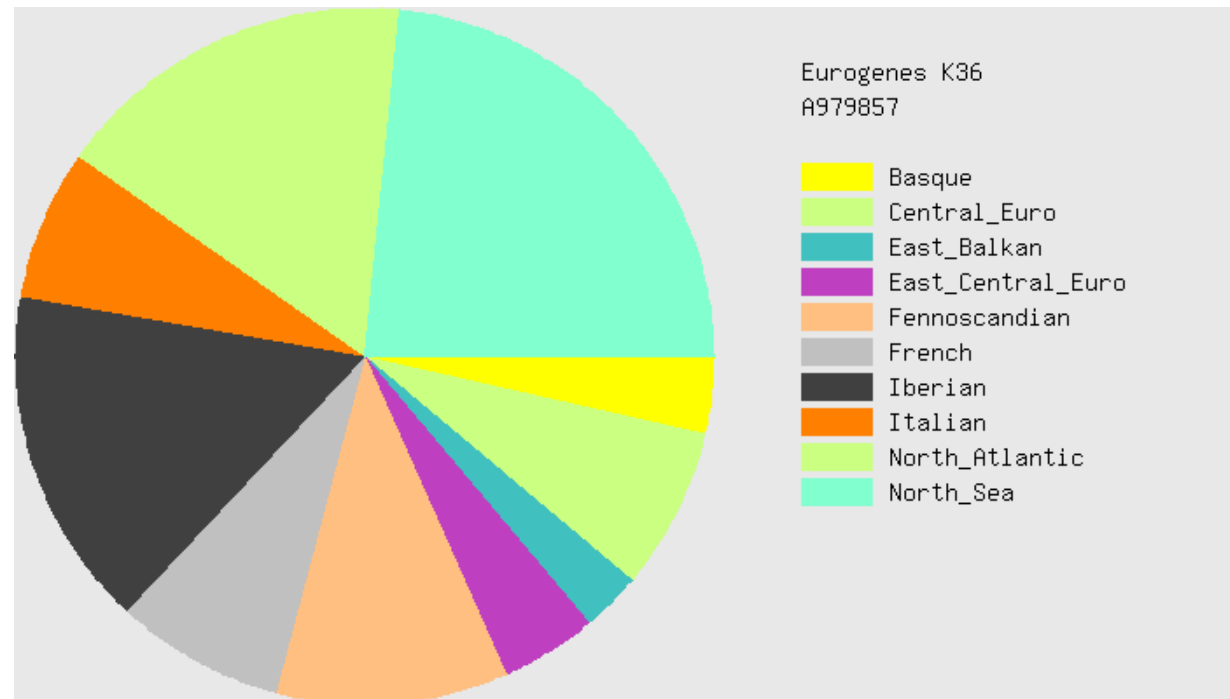
- Select
- MDLP Project
- Eurogenes
- Dodecad
- HarappaWorld
- Ethiohelix
- puntDNAL
- GedrosiaDNA

- Admixture Prop
- Admixture Prop
- Chromosome Pa
- Chromosome Pa
- Paint differences between 2 kits, 1 chromosome
- Paint differences between 2 kits, 22 chromosomes, reduced size

CONTINUE

Admixture (ethnicity)

- ▶ **MANY** combinations possible with different ethnicity tests and sample sets
- ▶ Just one example here:
 - ▶ My kit
 - ▶ Using Eurogenes-36



Are Your Parents Related?

- ▶ Checks for “consanguinity”
 - ▶ Common for endogamous populations

Autozygosity **occurs when two chromosomal segments that are identical from a common ancestor are inherited from each parent.** This occurs at high rates in the offspring of mates who are closely related (inbreeding), but also occurs at lower levels among the offspring of distantly related mates. Apr 12, 2012



Free Tools

[One-To-Many - Limited Version](#)

[Relationship Probability](#)

[One-to-One Autosomal DNA Comparison](#)

[One-to-One X-DNA Comparison](#)

[Admixture \(heritage\)](#)

[Admixture / Oracle with Population Search](#)

[People who match both, or 1 of 2 kits](#)

[DNA File Diagnostic Utility](#)

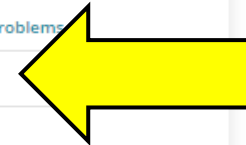
[Analyze DNA file upload for potential problems](#)

[Are your parents related?](#)

[3-D Chromosome Browser](#)

[Archaic DNA Matches](#)

[Ancestor Projects](#)



More on this: <https://blog.kittycooper.com/2018/07/when-the-dna-says-your-parents-are-related/>

Are Your Parents Related?

- ▶ Enter a single kit #



Are Your Parents Related?

Since you inherit half of your DNA from each of your parents, it stands to reason that large blocks of SNPs where both parents block from the same ancestor. These are called 'Runs of Homozygosity' (ROH). There are other utilities available to help determine how closely related your parents might be.

Enter your kit number below, and click on 'Submit'.

Kit number of child:

Show graphic bar/numeric positions for each Chromosome?

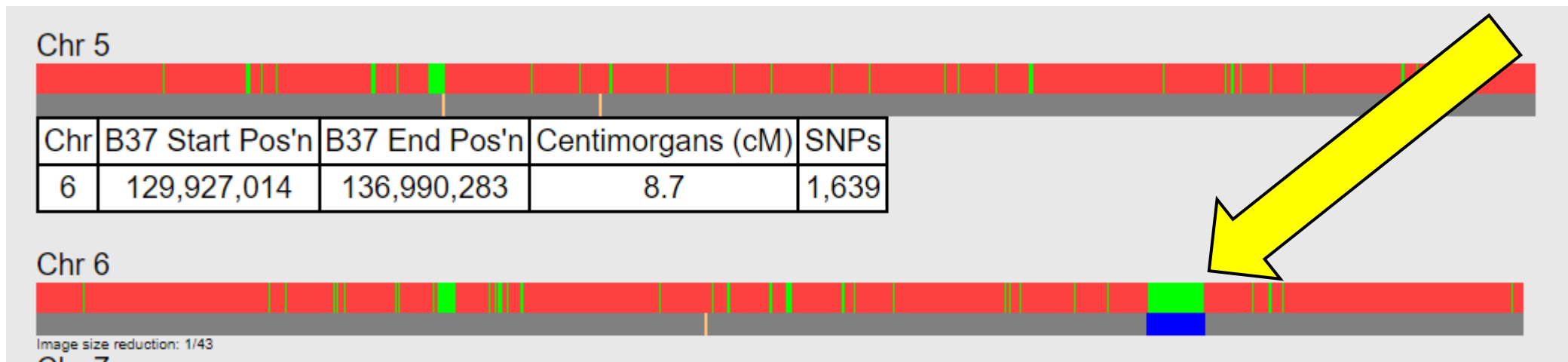
Graphics and Positions

Position Only

SUBMIT

Are Your Parents Related?

- ▶ Example of a positive result
- ▶ This is a 2nd cousin once removed to me with 100% ancestry from the Portuguese Azores Islands
- ▶ Same identical segment on one chromosome that's identical, i.e., same from both parents



One other thing to mention

- ▶ GEDMatch does have the capability to store trees
- ▶ They are in the standard “GEDCOM” format that can be exported from Ancestry trees, FamilyTreeMaker, RootsMagic, etc.

Your Family Trees (Also known as GEDComs) below:

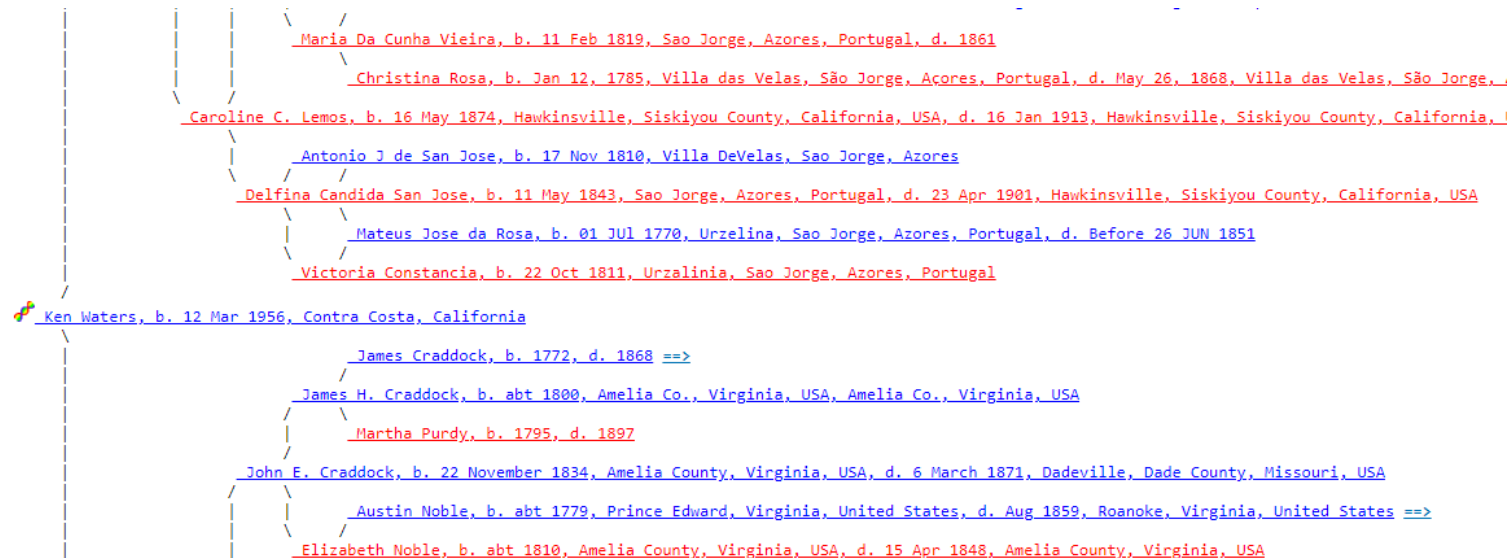
5290368	2020-08-29	Me
5760302	2020-07-31	Joan Craddock
3147917	2020-07-31	Ernie Waters
4173734	2020-07-01	/LIVING/

Click on the GEDCOM number above to go to the individual detail page for the point person. To change the point person, or to create a link between a DNA kit and a person in your GEDcom: Go to their individual detail page in the online tree and at the bottom of that page there is a box for linking a DNA kit to that GEDCOM, or for changing the point person.

Click [HERE](#) to manage GEDCOM resources.

GEDCOMs

- ▶ These can be accessed from matches in the one-to-many lists:



There's More....**MUCH** More

- ▶ Many more tools of interest that can be tried beyond the four highlighted here
- ▶ Many of these require a "Tier 1" membership
 - ▶ This currently costs \$10 for one month's use
 - ▶ Can be set to autopay every month or can be used as needed, one month at a time



Tier 1 Tools

One-To-Many - Full Version

One-To-Many - Classic Version

Q-Matching One-To-One

Segment Search

Phasing

Triangulation

AutoSegment **NEW**

AutoKinship **NEW**

Multiple Kit Analysis (MKA)

Lazarus

My Evil Twin

Combine multiple kits into 1 superkit

Clusters With AutoTree, Closest to Single Kit Version **NEW**

Find common ancestors (MRCA) from DNA matches **NEW**

Find surname matches from DNA matches **NEW**

Quote of the Day

“DNA doesn't lie. But it sure can be misinterpreted.”

– Ken Waters

Questions?

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Presentations: <http://familytreeaz.com/Presentations>

