

GEDmatch Mini Guide

Created by **Nanchang Project** (Version 2023.2.22)

GEDmatch is a western database that allows file uploads from autosomal (SNP) companies, such as 23andMe, AncestryDNA, MyHeritage, FamilyTreeDNA, 23mofang, and WeGene. The first five uploads to each account are free. If you are concerned about personal privacy, you can create a separate email account and choose an alias to use for your GEDmatch account.

Once you have downloaded your raw data file from one of the above testing companies and uploaded it to GEDmatch, it will take one day for your kit to be processed and compared against all other kits in GEDmatch's database.

- Be sure you have opted in for your kit to be matched with other kits
- Regarding police matching, it is your choice to opt in or out of this; Most users opt out of police matching

To check if you have matched with any close relatives, you need to sign in and find your kit ID on the account homepage. Scroll down a little on the left side of the page. You should see a combination of letters and numbers next to your name. Click the kit ID.

User Profile([redacted]):

Name: [redacted] User Name

Email: [redacted] Your Email Address

Registered User

The number of online users is 269

Status indicators shown to the right of each kit below:

- Click on pencil if you wish to EDIT or DELETE kit profile
- Kit has completed all processing and has good status
- Kit matches are pending migration
- Kit has not yet completed matching with other kits
- Unknown Status


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

Your Kit ID

[EL1910163](#) [redacted] User Name

You have not uploaded any GEDCOM (genealogy) resources

That will take you to a page to change settings for a One-to-Many DNA Comparison of that kit. No need to edit anything, just click the green Search button.

 One-to-many DNA comparison for kit:

Filter By:

Autosomal

X

With this offset

With this limit

cM size


Tag Groups

None

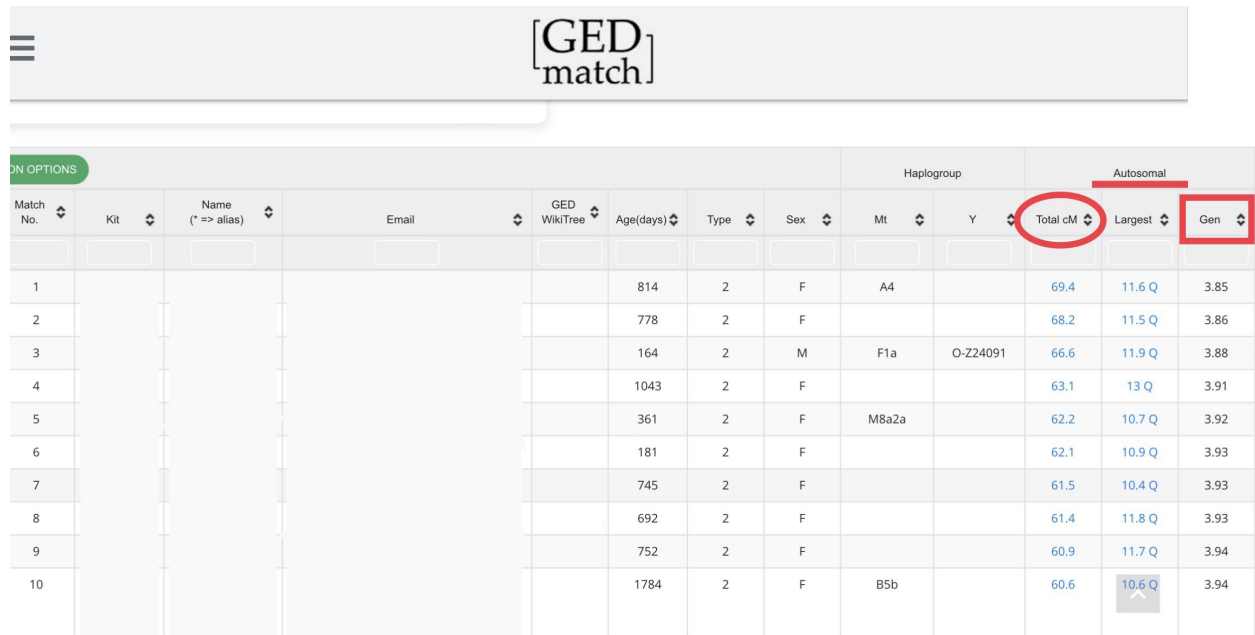
All

One

Overlap Cutoff

Tips 

Your matches list will be displayed with your closest matches at the top.



Match No.	Kit	Name (* => alias)	Email	GED WikiTree	Age(days)	Type	Sex	Haplogroup		Autosomal		
								Mt	Y	Total cM	Largest	Gen
1					814	2	F	A4		69.4	11.6 Q	3.85
2					778	2	F			68.2	11.5 Q	3.86
3					164	2	M	F1a	O-Z24091	66.6	11.9 Q	3.88
4					1043	2	F			63.1	13 Q	3.91
5					361	2	F	M8a2a		62.2	10.7 Q	3.92
6					181	2	F			62.1	10.9 Q	3.93
7					745	2	F			61.5	10.4 Q	3.93
8					692	2	F			61.4	11.8 Q	3.93
9					752	2	F			60.9	11.7 Q	3.94
10					1784	2	F	B5b		60.6	10.6 Q	3.94

The first thing to look at is the Autosomal - Gen column, which we put a red rectangle around in the image below. What you want to find is a 1, 2, or sometimes 3—with 1 indicating a close relationship like parent-child or sibling. Any GEDmatch kits with a Gen number past 3 are unlikely to be useful since that indicates a very distant cousin match. In the example below, all of the kit's closest matches are too distant.



Autosomal		
Total cM	Largest	Gen
69.4	11.6 Q	3.85
68.2	11.5 Q	3.86
66.6	11.9 Q	3.88
63.1	13 Q	3.91

The Autosomal - Total cM column (circled in red above) shows how much DNA, in centimorgans, you share with each relative. The higher the number, the more related you are.

See the chart below for how many cM you can expect to share with close relatives.

Relative	Total cM	Match
Parents	3330 – 3720cM	50%
Full siblings	2209 – 3384cM	37.5%
Grandparents and aunts/uncles	1156 – 2311cM	25%
Great-grandparents and first cousins	464 – 1486cM	12.5%
Second cousins and first cousins twice removed	46 – 515cM	3.125%

It should be noted that by a glitch in the system, some GEDmatch kits appear at the top of many Chinese adoptees' relatives list despite not actually being closely related. A few of those kits to be cautious of are under these names or aliases: **anna, Guangzhou, Dongguan Chen, *Theo, Chinese Korean, *zhao ruoming.*

If you want to explore how you could be related to an individual, you can use DNA Painter's Shared cM tool found here: dnapainter.com/tools/sharedcMv4

In DNA Painter:

Enter your Total cM under the Autosomal column on GEDmatch into the tool and it will show all relationship probabilities.

Enter the total number of cM for your match here:

reset

****In DNA Painter****

or enter %

Then any relationships that fit will stand out below

You will need to scroll the page to the right to see all relationships

[Click here for a shareable link to the cM amount above](#)


Most distant common ancestors

Assuming no [pedigree collapse](#) or [endogamy](#), and that you're related in just one way, the **furthest** back you might need to go to find common ancestors for a match of 69.4cM is **8th-Great-Grandparent level** or generation 11 in your pedigree chart.

The connection may be closer.

Relationship probabilities (based on stats from [The DNA Geek](#))

[New: View these relationships in a tree](#)



34%	Half 3C	3C1R	Half 2C2R	2C3R
26%	3C	Half 2C1R	2C2R	Half 1C3R
17%	Half 2C	2C1R	Half 1C2R	1C3R
16%	4C	Half 3C1R	3C2R	

									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

Back to GEDmatch:

If you have GEDmatch email notifications enabled, you *should* receive an email message if your kit matches with a relative who uploads their DNA after you did. It is highly recommended you still regularly check your GEDmatch account to ensure that possible new matches have not been missed.

The Nanchang Project (nanchangproject.com) is a 501(c)(3) nonprofit organization founded in 2018. We provide free DNA tests to birth relatives and upload their data to GEDmatch for matching. Should you need help testing a birth relative, feel free to contact us: nanchangproject@gmail.com. We can send a DNA kit to all parts of China and have a result for you within two weeks.

Any close matches made through a Nanchang Project kit are always free for adoptees. We actively monitor our birth families' kits and should there be a close match, we will reach out to you via the email you use for your GEDmatch account.