

DNA Painter and Chromosome Mapping

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DNA Painter (<https://dnainter.com/>) is a user-friendly online tool for chromosome mapping.

- Use your DNA test results to find out which ancestors gave you specific segments of your DNA.
- Allows tracing other DNA matches to same ancestors you have painted.
- To learn more visit <https://dnainter.com/help> or FAQs at <https://dnainter.com/help/faq>.

Where to get your DNA segment data:

- Instructions for finding segment data at different websites: <https://dnainter.com/help/matchdata>
- FamilyTreeDNA: <https://www.familytreedna.com/>
 - Family Finder Matches
 - Select a match and then click on Compare Relationship
 - Click on Detailed Segment Data
 - Select all (Ctrl or Cmd A) and Copy to your clipboard (Ctrl or Cmd C)
- 23andMe: <https://www.23andme.com/>
 - Family & Friends > Advanced DNA Comparison
 - Select a match and click on Compare
 - Select all (Ctrl or Cmd A) and Copy to your clipboard (Ctrl or Cmd C)
- MyHeritage: <https://www.myheritage.com/>
 - In your DNA matches click on Review DNA Match for the person you want
 - Scroll to the bottom of the page to find chromosome browser
 - Click on Advance Options
 - Click on Download shared DNA info
 - Open the file on your computer
 - Select all (Ctrl or Cmd A) and Copy to your clipboard (Ctrl or Cmd C)
- GEDmatch: <https://www.gedmatch.com/>
 - Run a One-to-one Autosomal DNA Comparison for your and the match's test kit
 - Select Position Only and then Submit
 - Select all (Ctrl or Cmd A) and Copy to your clipboard (Ctrl or Cmd C)
- AncestryDNA: <http://dna.ancestry.com/> - You must transfer raw results to GEDmatch to access. Instructions, when you are logged in, are at <https://app.gedmatch.com/UploadHelp.php>

To Create a new Chromosome Map

- Dashboard > Chromosome Maps > Create a new map
- Name and Save

How to Paint a Match

- Dashboard > Chromosome Maps > select map to use
- See “Where to get your DNA segment data” above and it will be in your computer’s clipboard.
- Select Paint a New Match.
- In pop up box, paste date from clipboard (Ctrl or Cmd V).
- Preview Segments.
- Looks OK? Click on Save these segment to your map.
- Add any other information or change color if you want then click Save Match.

Tip

- Do not add matches closer than 2nd cousins.

Finding a GEDmatch tester on Ancestry

- Search in Ancestry match list by GEDmatch name.
- May not have same name as used on GEDmatch.
- Maybe used initials or nickname or alias.
- Look at shared matches with others you identified from same line.
- Look through list for matches with same amount of cMs in common. Usually, will be smaller on Ancestry due to how they report shared DNA.
- If a distant match, there may be too many to wade through.

Look at GEDmatch for tester information

- Do a User Lookup search with the test kit number.
- Will learn email address associated with the test kit.
- Could contact by email.
- Will learn if a GEDCOM tree is linked to the test kit.
- If GEDCOM, search for same people in public Ancestry trees.
- Important: On Ancestry’s list of matching persons from family trees, select “See more like this . . .” then “View all.”
- Open trees and click on tree’s owner to open their Ancestry profile.
- On Ancestry User Profile page, it will say if you are a DNA match or not.
- Run a GEDmatch One-to-Many DNA Comparison with their test kit number.
- Look at tester’s close matches.
- Do any have a GEDCOM tree?
- Do any have the same email address?

DNA Painter Trees

- Will need a GEDCOM file or create manually.
- Your software program can create a GEDCOM or you can download one from your Ancestry Tree.
- Upload GEDCOM > select person > Import Ancestors
- Can view as Tree, Fan Chart, or Text.
- Can see X-DNA path.
- Can see tree completeness.

Tools:

- Shared Centimorgan (cM) tool at <https://dnapainter.com/tools/sharedcmv4> shows the probabilities for relationships based on the amount of cMs you share with a match.
- What are the Odds? at <https://dnapainter.com/tools/probability> lets you test a hypothesis about how someone is related to you.

Resources:

- Videos, and articles about how to use DNA Painter:
<https://dnapainter.com/help/articles>
- Roberta Estes Blog posts on DNA Painter: <https://dna-explained.com/2019/10/14/dnapainter-instructions-and-resources/>
- User group
 - <https://www.facebook.com/dnapainter/>
- DNA Blogs
 - Blaine Bettinger: The Genetic Genealogist
<http://thegeneticgenealogist.com/>
 - Roberta Estes: DNAeXplained - Genetic Genealogy <http://dna-explained.com/>
 - Judy Russell: The Legal Genealogist
<http://www.legalgenealogist.com/category/dna/>
 - Kitty cooper: Musings on genealogy and genetics
<http://blog.kittycooper.com/>
 - Debbie Parker Wayne: Deb's Delvings <http://debsdelvings.blogspot.com/>