

ICSA How-to Guide

How to Interpret Gedmatch



International Child Search Alliance

Gedmatch is not as user friendly as 23andMe. Matches look like this:

Kit	1:1	Name	Email	Largest Seg	Total cM	Gen	Overlap	Date Compared	Testing Company
Z989214	△	gurgu		12.3	46.2	4.1	52403	2018-12-08	Migration - F2 - Z
Z518631	△	*xoxosmile		12.0	40.3	4.2	52335	2018-12-12	Migration - F2 - Z
Z537916	△	*Anita		10.7	38.4	4.3	51589	2018-12-11	Migration - F2 - Z
Z568705	△	hooper		11.1	37.9	4.3	48997	2018-12-03	Migration - F2 - Z
Z236306	△	hls		11.1	37.6	4.3	52234	2018-12-10	Migration - F2 - Z
Z633340	△	*sc		12.9	30.5	4.4	52964	2018-12-07	Migration - F2 - Z
EX1257725	△	*YZ		11.8	29.3	4.5	76985	2019-08-04	GeseDNA
Z441220	△	Wang Zhen yu		12.3	28.8	4.5	52423	2018-12-16	Migration - F2 - Z
FE6702896	△	Tiantian Cai		9.9	32.3	4.5	77384	2019-03-10	gedsna

This manual is helpful: whoareyoumadeof.com/blog/2018/01/17/how-to-understand-the-gedmatch-genesis-one-to-many-comparison/

The most important column is the Gen column – 2 and lower are most significant.

<p><i>From:</i> genenous.com/2017/03/25/gedmatch-generations/</p> <p>I had a look at the known connections I have with my genetic cousins who've uploaded to Gedmatch and this is the range of how Gedmatch calculated the generation distance to the most recent common ancestors and then I give the actual relationships. As you can see, the further distant the common ancestor, the more varied are the possible relationships.</p> <hr/> <p>Gen 1 Well, that's easy – it's always going to be a parent-child relationship</p> <p>Gen 1.2 Oddly, this is always a sibling relationship</p> <p>Gen 1.4 Half-sibling Uncle ~ niece Grandparent</p> <p>Gen 1.5 Uncle ~ niece <i>This makes sense: the common ancestors for my uncle are his parents, which is 1 generation, but for me, his niece, it is my grandparents, 2 generations. Therefore, the Gedmatch Generation is calculated as being between 1 and 2 = 1.5</i></p>	<p>Gen 1.6 Uncle/aunt ~ niece/nephew Grandparent</p> <p>Gen 1.9 1C (first cousins), whose common ancestors are their grandparents, which is 2 generations</p> <p>Gen 2.2 1C (first cousins) 1C1R (first cousins once removed)</p> <p>Gen 2.3 1C1R (first cousins once removed)</p> <p>Gen 2.5 1C1R (first cousins once removed) <i>Again, this makes sense: my cousin is a generation older than me, his grandparents, which is 2 generations, are my great-grandparents, which is 3 generations. Therefore, the Gedmatch Generation is calculated as being between 2 and 3 = 2.5</i></p> <p>Gen 2.6 1C1R (first cousins once removed) 2C (second cousins)</p> <p>Gen 3.0 2C (second cousins) <i>This is the ideal scenario, with the common shared ancestors for me and my match both being 3 generations back.</i></p> <p>Gen 3.3 2C1R (second cousins once removed)</p>	<p>Gen 3.5 2C1R (second cousins once removed) <i>Again, this makes sense: my second cousin is a generation older than me, her G-grandparents, which is 3 generations, are my GG-grandparents, which is 4 generations. Therefore, the Gedmatch Generation is calculated as being between 3 and 4 = 3.5</i> 3C (third cousins) 2C2R (second cousins twice removed) <i>Here we have a case of our common ancestors being my G-grandparents, 3 generations, but these ancestors are my matches GGG-grandparents, 5 generations: a difference of two generations between me and my match</i></p> <p>Gen 3.6 2C1R (second cousins once removed) 3C (third cousins)</p> <p>Gen 3.7 2C1R (second cousins once removed) 3C (third cousins) 3C1R (third cousins once removed)</p> <p>Gen 3.8 2C2R (second cousins twice removed) 3C (third cousins)</p> <p>Gen 3.9 3C1R (third cousins once removed)</p>
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Consanguinity Relationship Chart



Consanguinity Chart Now with More DNA Flavor! Version: 04JAN2017
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 *See Average Autosomal DNA table for additional info on amounts and percentages at: http://isogg.org/wiki/Autosomal_DNA_statistics

In the past there were a few false positive matches on Gedmatch with a 23mofang or GeseDNA account – not sure if this is still the case but if you match, be aware of it. Good luck!

