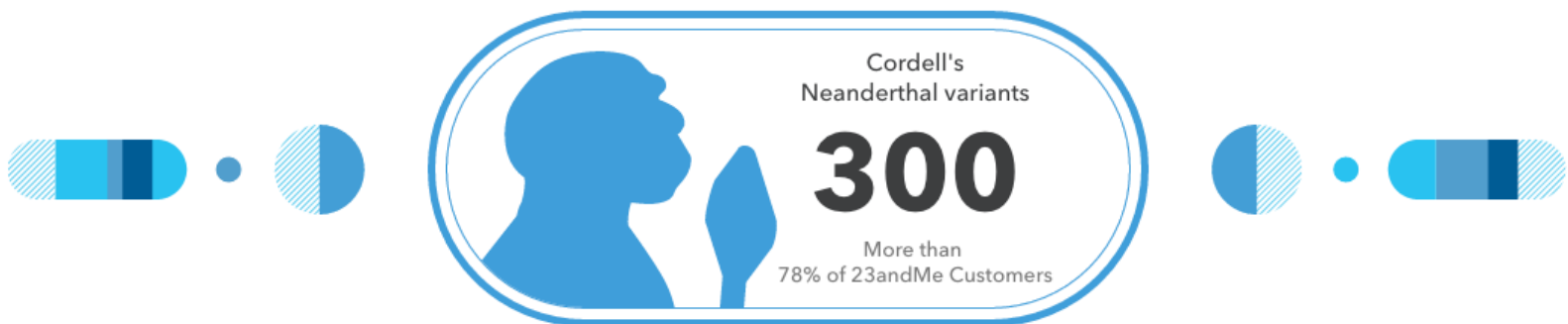


Neanderthal Ancestry

Neanderthals were ancient humans who interbred with modern humans before becoming extinct 40,000 years ago. This report tells you how much of your ancestry can be traced back to Neanderthals.

[Genetic Result](#)[About Report](#)[Neanderthal Background](#)[Neanderthal Inheritance](#)[Comparison](#)[What You Can Do](#)

You have 300 Neanderthal variants.



You have more Neanderthal variants than 78% of 23andMe customers. However, your Neanderthal ancestry accounts for less than 4% of your overall DNA.

Interpreting Neanderthal Ancestry

[Review the Ancestry tutorial](#)[See Scientific Details](#)

+ This report can tell you:

- Whether you have certain genetic variants of Neanderthal origin out of the 2248 Neanderthal variants we test
- How your Neanderthal ancestry compares to other 23andMe users

- This report cannot tell you:

- The precise portion of your genome that comes from Neanderthals
- About genetic variants of Neanderthal origin not tested by the 23andMe

Introduction

For the past 150 years, scientists have found bones belonging to an extinct population of ancient humans. These ancient humans are known as Neanderthals and were named after the site where their bones were first identified (Neander Valley, Germany). Neanderthals and modern humans share a common ancestor as well as many morphological and social traits, but differed in key respects. Over the past decade, genome sequencing has shed more light on the Neanderthal and our complicated relationship with them.

Next:

[Neanderthals and Modern Humans Share a Common Ancestor](#)

Introduction

600,000
Years Ago

200,000
Years Ago -
Eurasia

200,000
Years Ago -
Africa

60,000 Years
Ago

Today

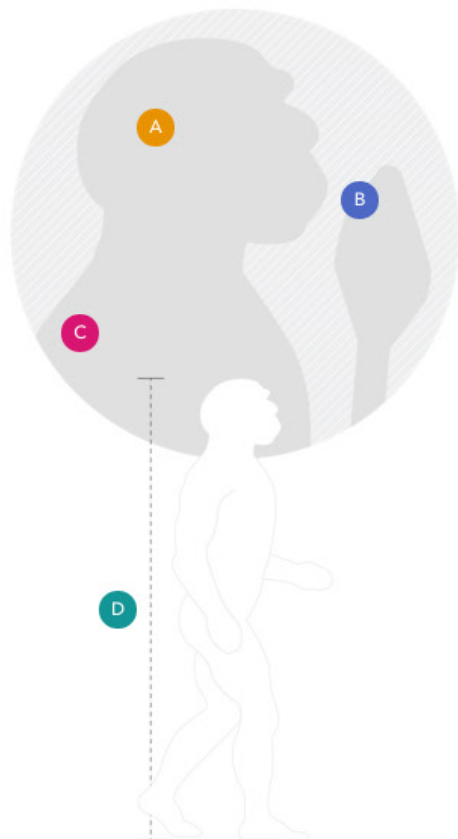
Europe

Neander Valley
Germany

Africa

Some of your traits may be influenced by having Neanderthal variants.

Scientists at 23andMe identified associations between Neanderthal variants and certain physical traits in customers. This means that some of your physical traits may trace back to your Neanderthal ancestors.



Variant(s) Found

A Straight Hair

You have 1 Neanderthal variant associated with having straighter hair

CB

B Sneezing after eating dark chocolate

You have 0 Neanderthal variants associated with a reduced tendency to sneeze after eating dark chocolate

--

C Less back hair

You have 0 Neanderthal variants associated with decreased back hair

--

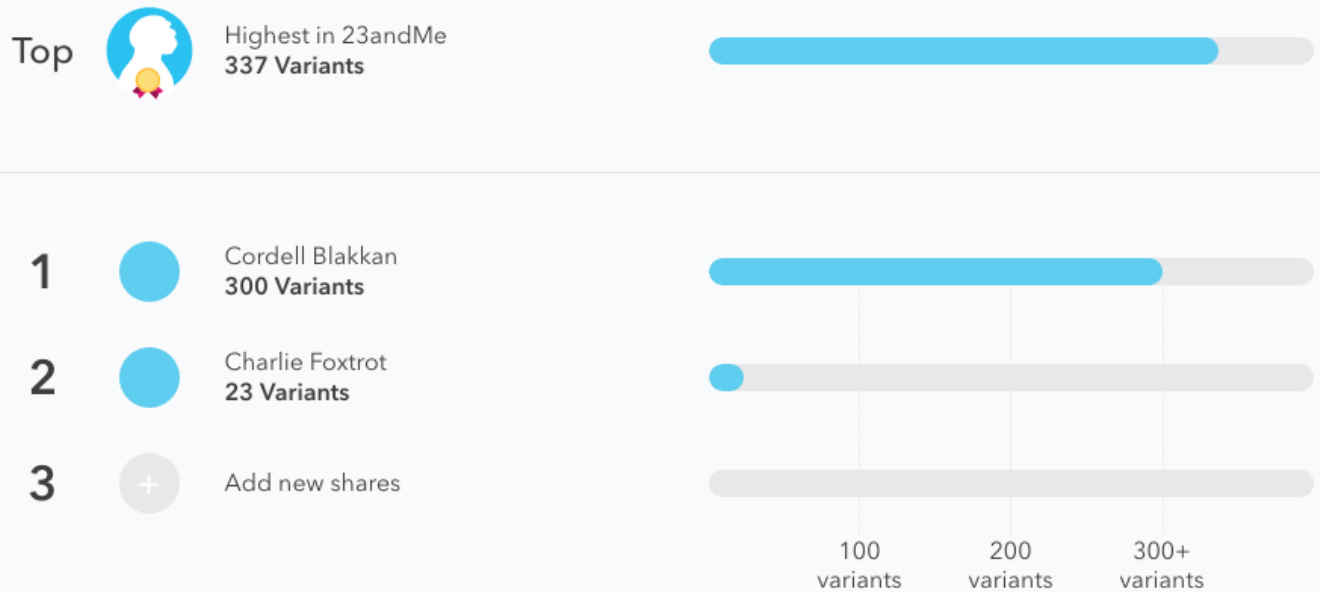
D Height

You have 0 Neanderthal variants associated with your height

--

You are in **1st place** out of your family and friends.

Compare to your family and friends



Do more with your Neanderthal results.



Compare your results to your family and friends.

[Compare](#)



See exactly in your genome where your neanderthal variants were found.

[View Scientific Details](#)



Contribute to research and help us understand more about how DNA relates to ancestry.

[Take survey](#)

Neanderthal Ancestry

Scientific Details

Neanderthals were ancient humans who interbred with modern humans before becoming extinct 40,000 years ago. This report tells you how much of your ancestry can be traced back to Neanderthals.

[DNA Overview](#)

[Neanderthal Ancestry](#)

[Neanderthal Traits](#)

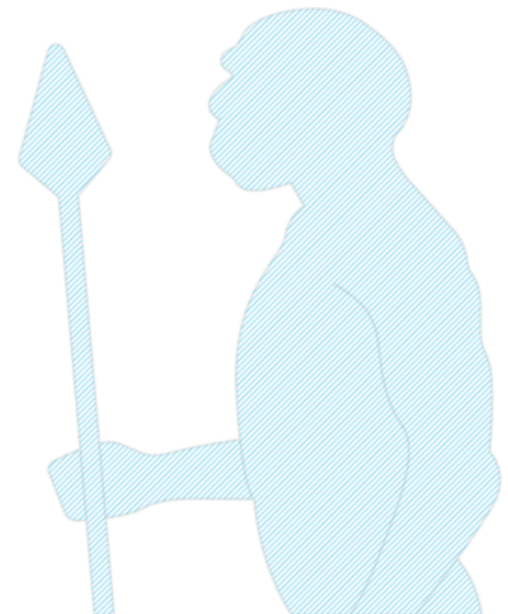
[References](#)

What is so important about Neanderthals?

For many years, scientists were limited to scraping together clues from fragments of bones and other materials to discover who we are and where we come from. [1, 2] New techniques have allowed scientists to look even closer at DNA hidden within those bones. [3] While the full picture of our past is still emerging, it is clear that as early as 50,000 years ago there were at least three different types of humans. [4] Although only one of these groups (so-called "Anatomically Modern Humans") survived, we now know that they interbred with the other groups, Neanderthals, along the way. [5]

23andMe customers with Neanderthal variants have a direct Neanderthal ancestor—a grandparent to the 250th degree. What that means is still uncertain, but it's fascinating to think that we may have inherited some of our traits and behaviors from them.

[Read our white paper for more details](#)



Your Neanderthal Ancestry

23andMe tests 2,872 genetic variants of known Neanderthal origin that are scattered across the genome. Each variant can come in two versions: a version which is thought to have evolved in Neanderthals, and an ancestral, or "Human," version. All of these variants are on autosomal chromosomes, meaning that you can have 0, 1, or 2 copies of the Neanderthal version at each location. We report the total number of Neanderthal variant copies, which is a number between 0 and 2,872. However, nobody has all 2,872 – the maximum we've ever observed is still less than 400.

Locations tested for Neanderthal ancestry

1436

Locations where you have two Neanderthal variants

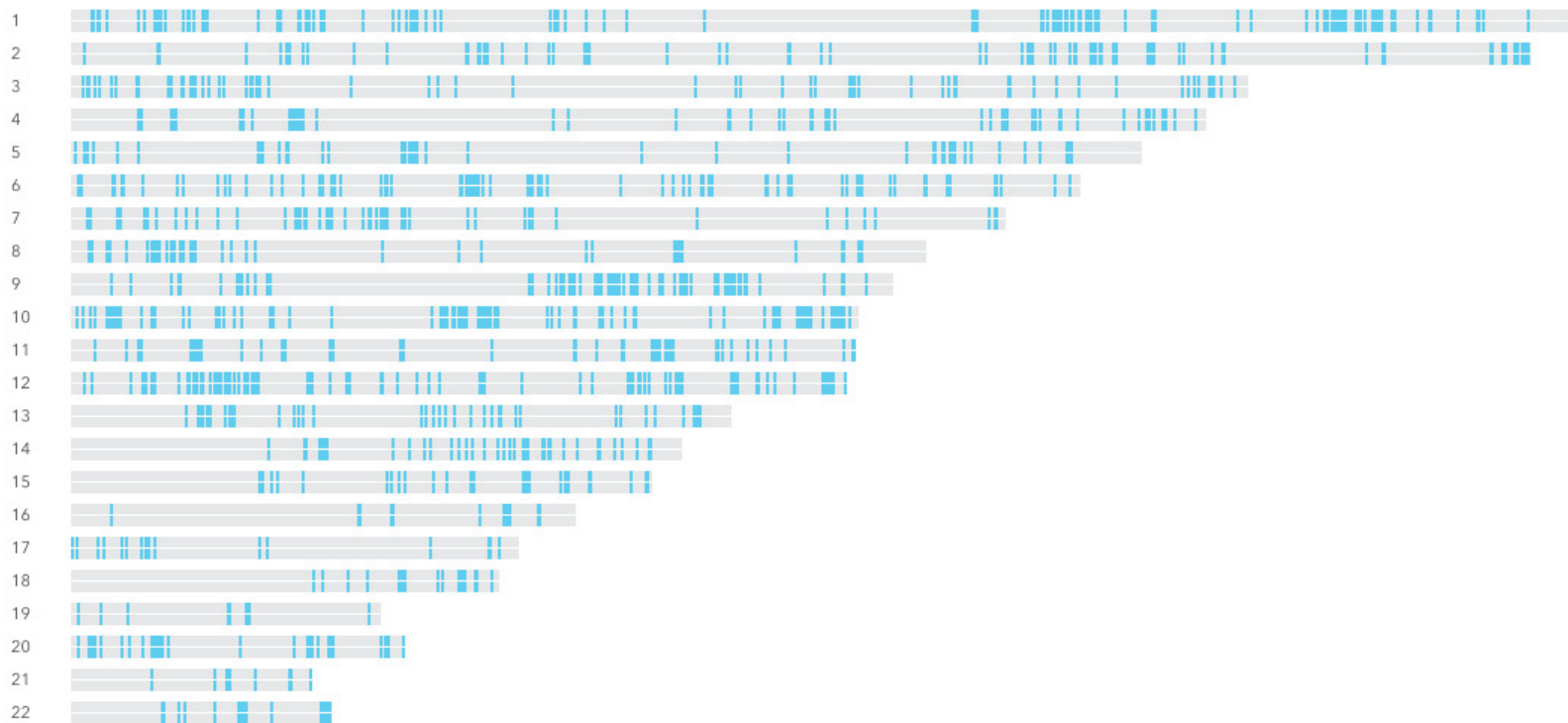
17 x2

Locations where you have one Neanderthal variant

266

Your Neanderthal Variant Total

300



Your Neanderthal Traits

Variants Detected

1

[View All Tested Markers](#)

5

Marker Tested

Your Genotype*

Additional Information

rs12458349

Gene: Near the PHLPP1 gene

T

Human copy from one of your parents



G

Neanderthal copy from your other parent

- > **Biological explanation**
- > **Typical vs. variant DNA sequence**
- > **References [7]**

* 23andMe always reports genotypes based on the 'positive' strand of the human genome reference sequence (build 37). Other sources sometimes report genotypes using the opposite strand. This test cannot distinguish which copy you received from which parent.

References

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8. Arsuaga JL et al. (2014). "Neandertal roots: Cranial and chronological evidence from Sima de los Huesos." Science. 344(6190):1358-63. [↗](#)
9. McDougall I et al. (2005). "Stratigraphic placement and age of modern humans from Kibish, Ethiopia." Nature. 433(7027):733-6. [↗](#)
10. Gibbons A. (2014). "Human evolution. Oldest Homo sapiens genome pinpoints Neandertal input." Science. 343(6178):1417. [↗](#)
11. Sankararaman S et al. (2014). "The genomic landscape of Neanderthal ancestry in present-day humans." Nature. 507(7492):354-7. [↗](#)
12. Neanderthal Ancestry White Paper