

# Unibrow



## Eyebrow styles across the world

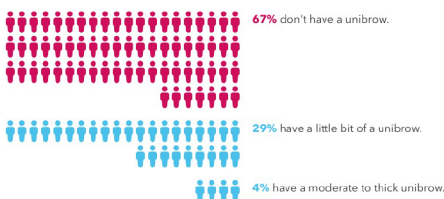
While many Westerners remove hair from between their eyebrows, women in Tajikistan sometimes darken their unibrows with an herb called usma.

### Your Traits Result



kary\_mullis, the combination of your genetics and other factors makes you **unlikely to have a unibrow.**

Of 23andMe research participants with results like yours:



Do you have a unibrow?

## How did we calculate your result?

We added up the effect of your genetic variants at 56 places in your DNA (genetic markers) plus the effect of other factors, including your age and sex.

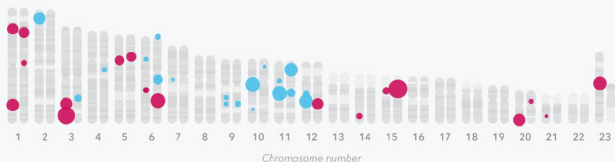
Total effect of your genetics + other factors



Learn more about your genetic variants

### Breakdown of your genetics

The bigger the circle, the stronger the effect your variants have on your overall chances.



At 19 of the genetic markers we looked at you have variants that make you less likely to have a unibrow, and at 19 you have variants that make you more likely. At 18 of the markers that we looked at, you have variants with no effect either way (not shown).

See Scientific Details

## More about unibrows

### Genetics

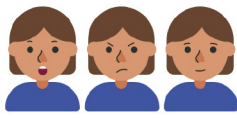
Not much is known about the genetics of eyebrow hair distribution. But initial findings offer some clues. Two of the genetic variants in this report are common variations in or near genes, called PAX3 and EDAR, that have been previously associated with unibrow growth.

- PAX3: This gene plays an important role in the development of pigment-producing skin cells.
- EDAR: This gene controls the development of hair follicles, along with sweat glands and teeth.



### Why do we have eyebrows?

Eyebrows contribute to many facial expressions, communicating messages from greetings to surprise to anger. One study also found that people have trouble recognizing faces that are missing their usual eyebrows. This suggests the shape of our eyebrows may also help others recognize us.



## Keep exploring your Traits results.



Contribute

Join the research effort and contribute to new discoveries.



Compare

Compare your results to your family and friends.



Discuss

Join the discussion with other 23andMe customers interested in Traits.

Overview

Scientific Details

Unibrow

## Scientific Details

## We use one of two different methods to calculate your trait results.

### Statistical Model

Most traits are influenced by many different factors, including genetics, lifestyle, and environment. Usually, a statistical model using many factors provides better predictions than looking at single factors by themselves. To develop our models, we first identify genetic markers associated with a trait using data from tens of thousands of 23andMe customers who have consented to research. Then, we use statistical methods to generate a "score" for that trait using your genotype at the relevant genetic markers as well as your age and sex. We predict your likelihood of having different versions of the trait based on the survey responses of 23andMe customers with similar scores. These predictions apply best to customers who are of the same ethnicity as the people whose data contributed to the model. The accuracy of these predictions varies from trait to trait.

Read more about our statistical methodology

### Curated Model

For some traits, just a few genetic markers can strongly predict whether a person will have a particular version of the trait. For curated models, we first evaluate published scientific studies to identify genetic markers with well-established associations with the trait. Then, we look at genetic and survey data from tens of thousands of 23andMe customers who have consented to research. We estimate your likelihood of having different versions of the trait based on survey responses from customers who are genetically similar to you at those markers. These results apply best to customers who are of the same ethnicity as the people whose data contributed to the predictions.

## About your Unibrow result

Your result for this trait was calculated using a statistical model.

### About the Unibrow model

Created based on customers of ethnicity: **European**  
 Number of customers used to create: **60,000**  
 Number of markers: **56**  
 Area Under Curve (AUC): **0.63**  
 Non-genetic factors: **Age, Sex**

Bn #	No unibrow	Little unibrow	Moderate to thick unibrow
1	80.82%	17.06%	2.12%
2	74.92%	22.23%	2.85%
3	72.77%	24.15%	3.08%
4	71.11%	25.81%	3.08%
<b>KK</b> 5	<b>66.67%</b>	<b>29.13%</b>	<b>4.19%</b>
6	66.54%	29.33%	4.13%
7	63.31%	31.80%	4.88%
8	60.78%	33.87%	5.35%
9	59.19%	34.71%	6.10%
10	56.74%	36.92%	6.34%
11	55.44%	38.02%	6.54%
12	51.83%	41.13%	7.03%
13	50.06%	41.60%	8.34%
14	47.24%	43.60%	9.16%
15	45.38%	45.52%	9.10%
16	42.12%	47.30%	10.58%
17	39.39%	48.95%	11.66%
18	35.12%	51.77%	13.11%
19	31.45%	52.73%	15.81%
20	21.57%	55.44%	22.99%
<b>Overall European</b>	<b>54.62%</b>	<b>37.55%</b>	<b>7.82%</b>

## References

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- Morsore-Burq AH. (2015). "PAX transcription factors in neural crest development." *Semin Cell Dev Biol.* 44:87-96.
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## Change Log

Your report may occasionally be updated based on new information. This Change Log describes updates and revisions to this report.

Date	Change
<b>Dec. 15, 2017</b>	Unibrow report updated with revised content and design. Additionally, as part of regular report review and improvements in data analysis, some male customers may see an updated result.
<b>June 22, 2017</b>	Unibrow report separated from the Facial Features report.
<b>Feb. 18, 2016</b>	Due to improvements in data analysis, some customers may see an update to their Unibrow result in the Face report.
<b>Oct. 21, 2015</b>	Facial Features report created.