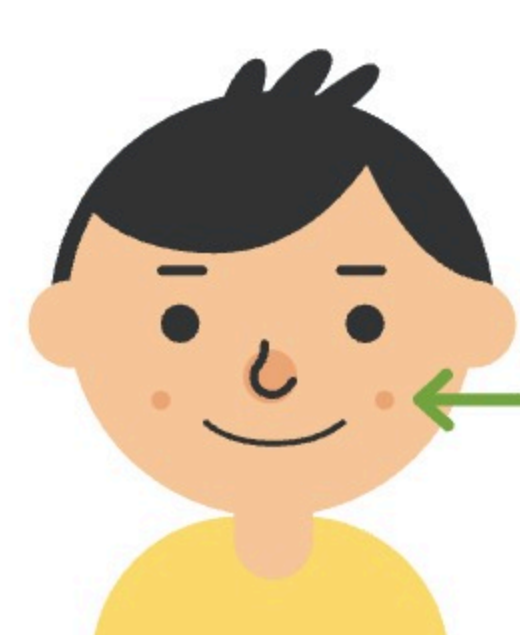


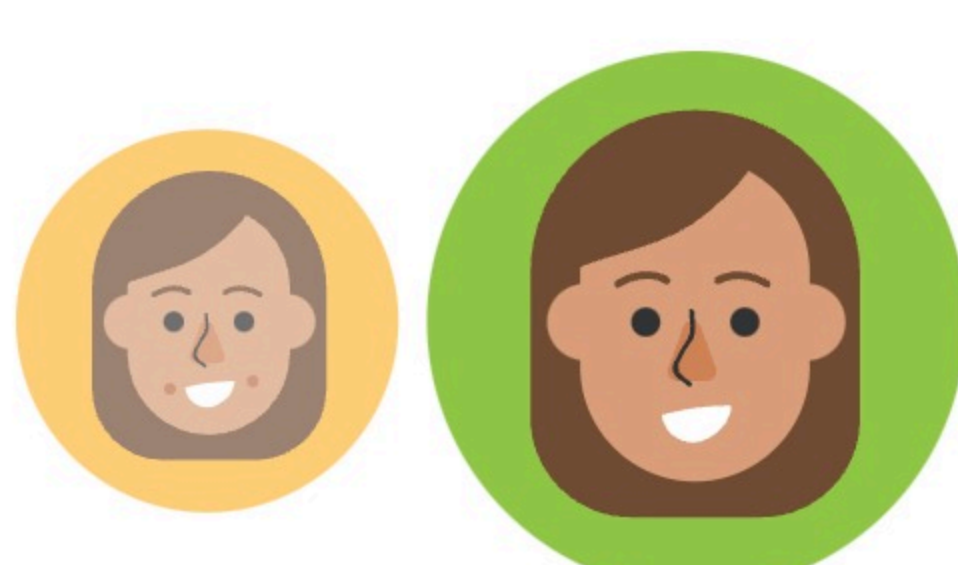
Cheek Dimples

Overview Scientific Details



Double the muscles

Some people have an extra "smiling muscle" in their cheeks that may create a dimple when it contracts. Are you one of them?



Jamie, the combination of your genetics and other factors makes you **unlikely to have dimples.**

Of 23andMe research participants with results like yours:

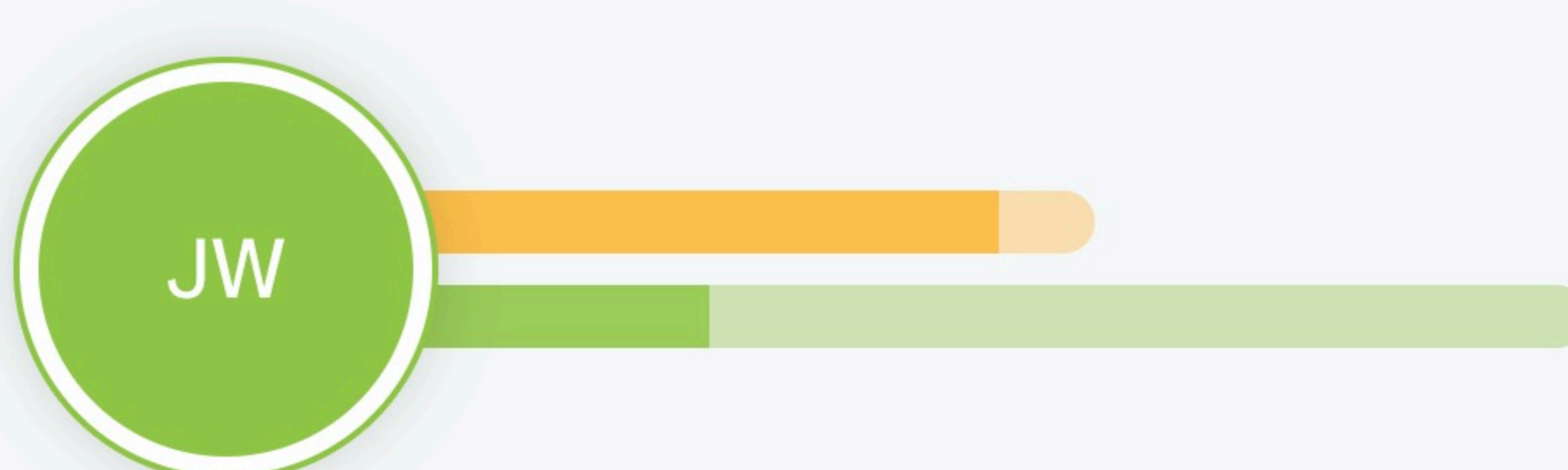


→ Do you have dimples?

How did we calculate your result?

We added up the effect of your genetic variants at 9 places in your DNA (genetic markers) plus the effect of other factors, including your age and sex.

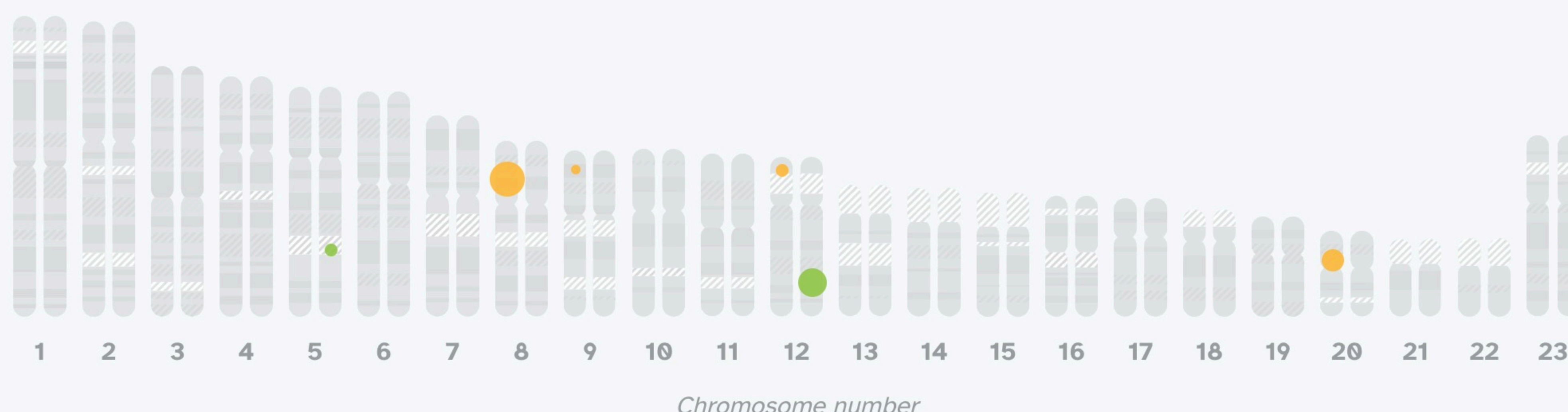
Total effect of your genetics + other factors



YOUR GENETICS		OTHER FACTORS	
●	less likely	●	
●	more likely	●	

Breakdown of your genetics

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



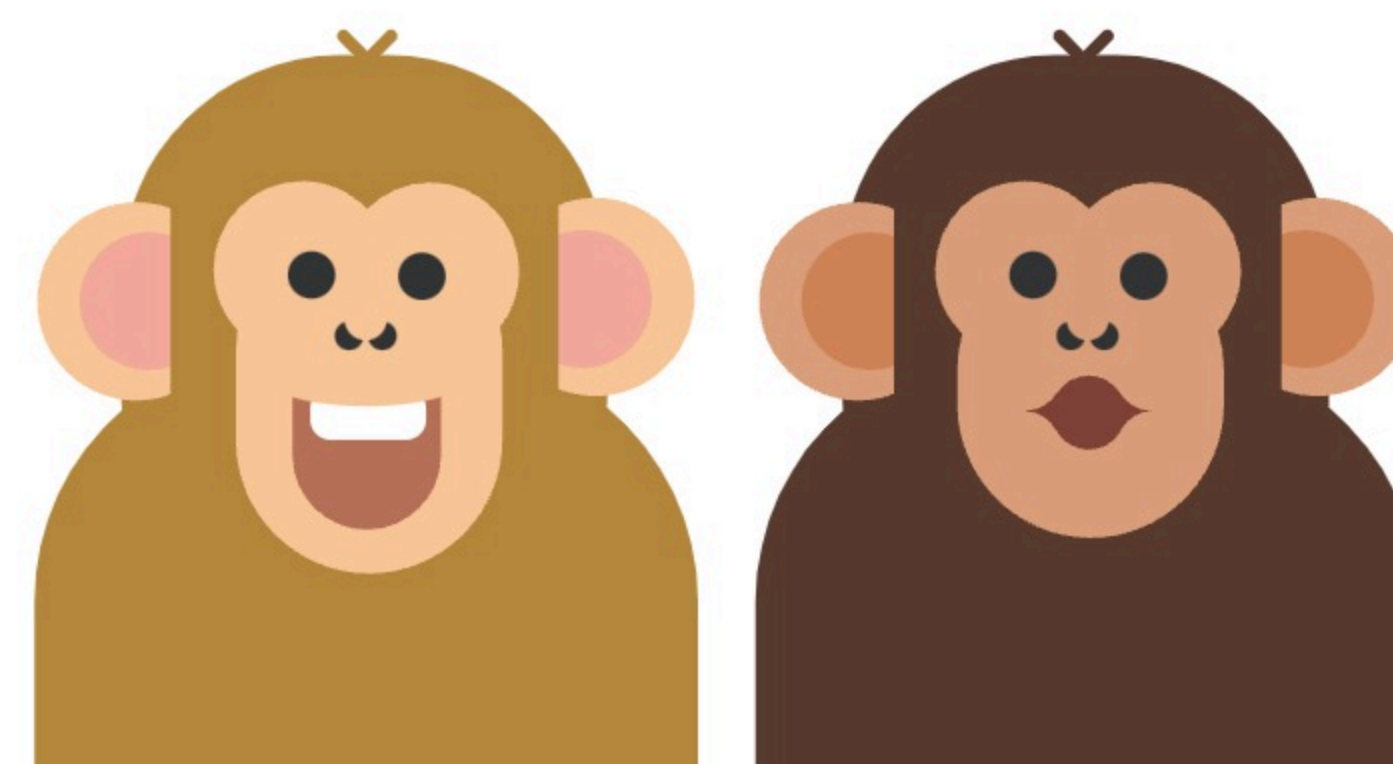
At 2 of the genetic markers we looked at you have variants that make you less likely to have cheek dimples, and at 4 you have variants that make you more likely. At 3 of the markers that we looked at, you have variants with no effect either way (not shown).

See Scientific Details

More about cheek dimples

Why do cheek dimples exist?

Dimples might have no real purpose, or there might be more to the story. Some hypothesize that because dimples accentuate the smile they could provide a boost for communication. Primates evolved to live in complex social groups where cooperation is critical. Facial gestures like smiling are social signals, and primates — from macaques to chimpanzees to humans — use smile-like gestures to communicate things like submissiveness, friendliness, and playfulness.



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.

Did you find this interesting?

Yes

No



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- Ancestry Overview
- All Ancestry Reports
- Ancestry Composition
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- Research Overview
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- Edit Answers
- Publications

FAMILY & FRIENDS

- View all DNA Relatives
- Family Tree
- Your Connections
- GrandTree
- Advanced DNA Comparison

Cheek Dimples

[Overview](#)
[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 Cheek Dimples result

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

About the Cheek Dimples model

Created based on customers of ethnicity: **European**

Number of customers used to create: **60,000**

Number of markers: **9**

Area Under Curve (AUC): **0.586**

Non-genetic factors: **Age, Sex**

Bin #	No dimples	Dimples
1	75.59%	24.41%
2	72.10%	27.90%
3	70.34%	29.66%
4	69.10%	30.90%
5	68.52%	31.48%
6	67.90%	32.10%
7	64.68%	35.32%
8	65.44%	34.56%
9	66.35%	33.65%
10	65.72%	34.28%
11	62.62%	37.38%
12	61.59%	38.41%
13	60.58%	39.42%
JW 14	61.83%	38.17%
15	59.43%	40.57%
16	57.91%	42.09%
17	58.18%	41.82%
18	56.79%	43.21%
19	56.27%	43.73%
20	52.47%	47.53%
Overall European	63.67%	36.33%

References

- [Daponte PA et al. \(2004\). "Cheek dimples in Greek children and adolescents." International Journal of Anthropology. 19\(4\):289-95. ↗](#)
- [Pessa JE et al. \(1998\). "Double or bifid zygomaticus major muscle: anatomy, incidence, and clinical correlation." Clin Anat. 11\(5\):310-3. ↗](#)
- [Preuschoft S. \(2010\). "Laughter" and "Smile" in Barbary Macaques \(Macaca sylvanus\). Ethology. 91\(3\):220-36. ↗](#)
- [Schmidt KL and Cohn JF. \(2001\). "Human facial expressions as adaptations: Evolutionary questions in facial expression research." Am J Phys Anthropol. 33:3-24. ↗](#)

Change Log

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

Date	Change
Dec. 15, 2017	Cheek Dimples report updated with revised content and design.
June 22, 2017	Cheek Dimples report separated from the Facial Features report.
Oct. 21, 2015	Facial Features report created.



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