Familial Dysautonomia

Familial dysautonomia is a rare genetic disorder that affects many different parts of the body. It is characterized by severe dysfunction in different parts of the nervous system involved in movement, the senses, and involuntary (autonomic) functions. A person must have two variants in the IKBKAP gene in order to have this condition.

Erin, you do not have the variant we tested.

You could still have a variant not covered by this test.







How To Use This Test

This test does not diagnose any health conditions.

Please talk to a healthcare professional if this condition runs in your family, you think you might have this condition, or you have any concerns about your results.

Review the Carrier Status tutorial See Scientific Details

Intended Uses

- To test for the 2507+6T>C variant in the IKBKAP gene.
- To identify carrier status for familial dysautonomia.

Limitations

- Does **not test** for all possible variants for the condition.
- $\bullet\;$ Does $\textbf{not}\;\textbf{report}\;\text{if}\;\text{someone}\;\text{has}\;\text{two}\;\text{copies}\;\text{of}\;\text{a}\;\text{tested}\;\text{variant}.$

Important Ethnicities

• This test is most relevant for people of Ashkenazi Jewish descent.

You are likely not a carrier.

This result is relevant for you because you have **Ashkenazi Jewish** ancestry.



We ruled out the most common variant for familial dysautonomia in people of Ashkenazi Jewish descent.

You still have a chance of being a carrier for familial dysautonomia.

You may still have up to a **1 in 2,300 chance** of carrying a variant not covered by this test.

See Scientific Details



About Familial Dysautonomia

Also known as: Hereditary Sensory and Autonomic Neuropathy Type III, Riley-Day Syndrome



When symptoms develop

Symptoms are typically present at birth.

How it's treated

There is currently no known cure. Treatment focuses on managing nerve dysfunction by providing medications and supportive care.



Typical signs and symptoms

- Episodes of involuntary nerve impairment
- Motor and sensory nerve impairment
- Poor growth
- Developmental delay



Ethnicities most affected

This condition is most common in people of Ashkenazi Jewish descent.

Read more at

Genetics Home Reference 🗷

GeneReviews 🗷

Consider talking to a healthcare professional if you are concerned about your results.



If you're starting a family, a genetic counselor can help you and your partner understand if additional testing might be appropriate.

Connect with a GC



Share your results with a healthcare professional.

Print report



Learn more about this condition and connect with support groups.

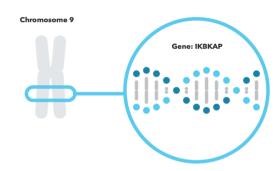
Learn more

Familial dysautonomia is caused by variants in the IKBKAP gene.

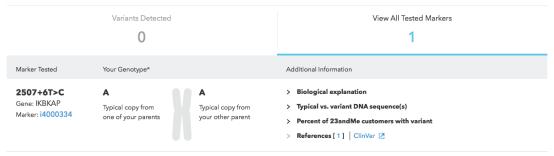


The IKBKAP gene contains instructions for making a protein called IKAP. IKAP plays a role in reading information from genes, especially those needed for the structure and movement of cells. Certain variants in the IKBKAP gene result in too little IKAP protein, especially in the brain.

Read more at Genetics Home Reference [2]



You have no variants detected by this test.



^{*}This test cannot distinguish which copy you received from which parent. This test also cannot determine whether multiple variants, if detected, were inherited from only one parent or from both parents. This may impact how these variants are passed down.

23 and Me 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.

Test Interpretation

This report provides an estimate of the chances of still being a carrier for people who do not have the variant(s) tested. This is known as the **post-test carrier risk**.

Post-test carrier risk is based on the average chance of being a carrier for a given ethnicity and the carrier detection rate of the test for a given ethnicity.

View technical article on estimating post-test carrier risk.

Post-Test Carrier Risk

This report provides an estimate of the post-test carrier risk for people of Ashkenazi Jewish descent only.

- For people of partial Ashkenazi Jewish descent, post-test carrier risk is less than that for those who
 are fully Ashkenazi Jewish. The exact post-test risk depends on how much Ashkenazi Jewish ancestry
 a person has.
- Post-test risk for other ethnicities cannot be provided because sufficient data is not available.

Post-test carrier risk for relevant ethnicities

Ashkenazi Jewish	1 in 2,300	[1]

Test Details

Indications for Use

The 23andMe PGS Carrier Status Test for Familial Dysautonomia is indicated for the detection of the 2507+6T>C variant in the IKBKAP gene. This test is intended to be used to determine carrier status for familial dysautonomia in adults, but cannot determine if a person has two copies of a tested variant. The test is most relevant for people of Ashkenazi Jewish descent.

Special Considerations

Carrier testing for familial dysautonomia is recommended by ACMG for people of Ashkenazi Jewish
descent considering having children. This test includes one of two variants recommended for testing
by ACMG.

Test Performance Summary

Carrier Detection Rate & Relevant Ethnicities

The "carrier detection rate" is an estimate of the percentage of carriers for this condition that would be identified by this test. Carrier detection rate differs by ethnicity and is provided only where sufficient data is available.

Ashkenazi Jewish 99% [1]

Analytical Performance

Accuracy was determined by comparing results from this test with results from sequencing for 59 samples with known variant status. 59 out of 59 genotype results were correct. Fewer than 1 in 100,000 samples may receive a **Not Determined** result. This can be caused by random test error or unexpected DNA sequences that interfere with the test. It can also be caused by having two copies of a variant tested.

Warnings and Limitations

- This test does not cover all variants that could cause this condition.*
- This test does not diagnose any health conditions.
- Positive results in individuals whose ethnicities are not commonly associated with this condition may be incorrect. Individuals in this situation should consider genetic counseling and follow-up testing.
- Share results with your healthcare professional for any medical purposes.
- If you are concerned about your results, consult with a healthcare professional.

See the Package Insert for more details on use and performance of this test.

* Variants not included in this test may be very rare, may not be available on our genotyping platform, or may not pass our testing standards.

References

- 1. Gross SJ et al. (2008). "Carrier screening in individuals of Ashkenazi Jewish descent." Genet Med. 10(1):54-6. 🗷
- 2. Shohat M et al. (1993). "Familial Dysautonomia" 🔼