Limb-Girdle Muscular Dystrophy Type 2E

LGMD2E is a rare genetic disorder. It is characterized by muscle weakness that worsens over time as well as heart and lung problems. A person must have two variants in the SGCB 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 T151K variant in the SGCB gene.
- To identify carrier status for LGMD2E.

**Limitations**

- Does **not test** for all possible variants for the condition.
- Does **not report** if someone has two copies of a tested variant.
- Does **not cover** other types of LGMD.

**Important Ethnicities**

- This test is most relevant for people of *Southern Indiana Amish* descent.

You are likely not a carrier.

This result is relevant for you because you have *Amish* ancestry.

We ruled out the most common variant for LGMD2E in people of Amish descent.

You still have a chance of being a carrier for LGMD2E.

We cannot estimate your chances because sufficient data is not available.
About Limb-Girdle Muscular Dystrophy Type 2E

Also known as: Beta-Sarcoglycanopathy

When symptoms develop
Symptoms typically develop between early childhood and adolescence.

How it’s treated
There is currently no known cure. Therapy focuses on maintaining muscle function, preventing skeletal problems, and monitoring heart and lung function.

Typical signs and symptoms
- Wasting of arm and leg muscles closest to the torso
- Large calf muscles
- Curvature of the spine
- Heart and lung problems
- Shortened lifespan

Ethnicities most affected
This condition is most common in people of Southern Indiana Amish 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

LGMD2E is caused by variants in the SGCB gene.

The SGCB gene contains instructions for making one part of a group of proteins. These proteins, called the sarcoglycan protein complex, are found in muscle tissue where they help strengthen and protect muscle fibers. Certain variants in the SGCB gene prevent the protein complex from working properly.

Read more at Genetics Home Reference
You have no variants detected by this test.

<table>
<thead>
<tr>
<th>Variants Detected</th>
<th>View All Tested Markers</th>
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<tbody>
<tr>
<td>0</td>
<td>1</td>
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<table>
<thead>
<tr>
<th>Marker Tested</th>
<th>Your Genotype*</th>
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<tbody>
<tr>
<td>T151R</td>
<td>G</td>
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*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.

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.

Test Interpretation

Post-test carrier risk for LGMD2E is the chance of still being a carrier for the condition if you do not have the variant tested. This chance depends on how common it is to be a carrier for LGMD2E and whether the variants we tested tend to be found in people of your ethnicity.

Because you do not have the variant we tested, your chances of still being a carrier are lower than for someone who has not been tested. However, we cannot provide an exact estimate because the information needed to calculate post-test carrier risk is not available for your ethnicity.

Test Details

Indications for Use

The 23andMe PGx Carrier Status Test for Limb-Girdle Muscular Dystrophy Type 2E is indicated for the detection of the T151R variant in the SGCB gene. This test is intended to be used to determine carrier status for LGMD2E in adults, but cannot determine if a person has two copies of a tested variant. The test is most relevant for people of Amish descent.

Special Considerations

- Symptoms can vary greatly in people with this condition, and can be mild in some cases.
- There are currently no professional guidelines in the U.S. for carrier testing for this condition.

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.

Amish from southern Indiana >99% [3]

Analytical Performance

Accuracy was determined by comparing results from this test with results from sequencing for 28 samples with known variant status. 28 out of 28 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


