

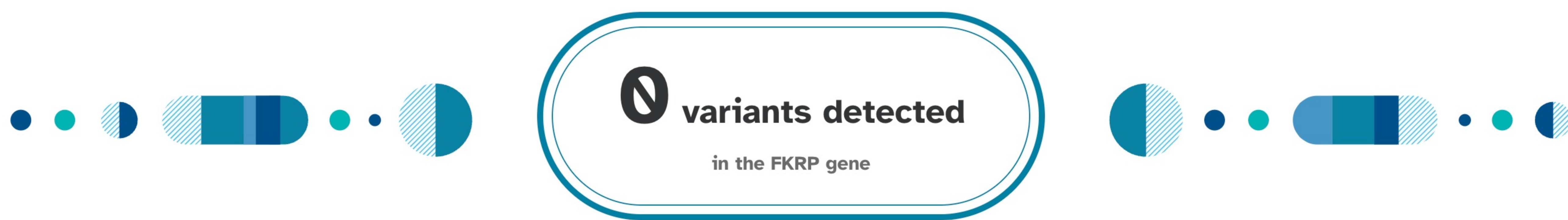
Limb-Girdle Muscular Dystrophy Type 2I

LGMD2I 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 FKRP gene in order to have this condition.

Overview Scientific Details

Jamie, 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 L276I variant in the FKRP gene.
- To identify carrier status for LGMD2I.

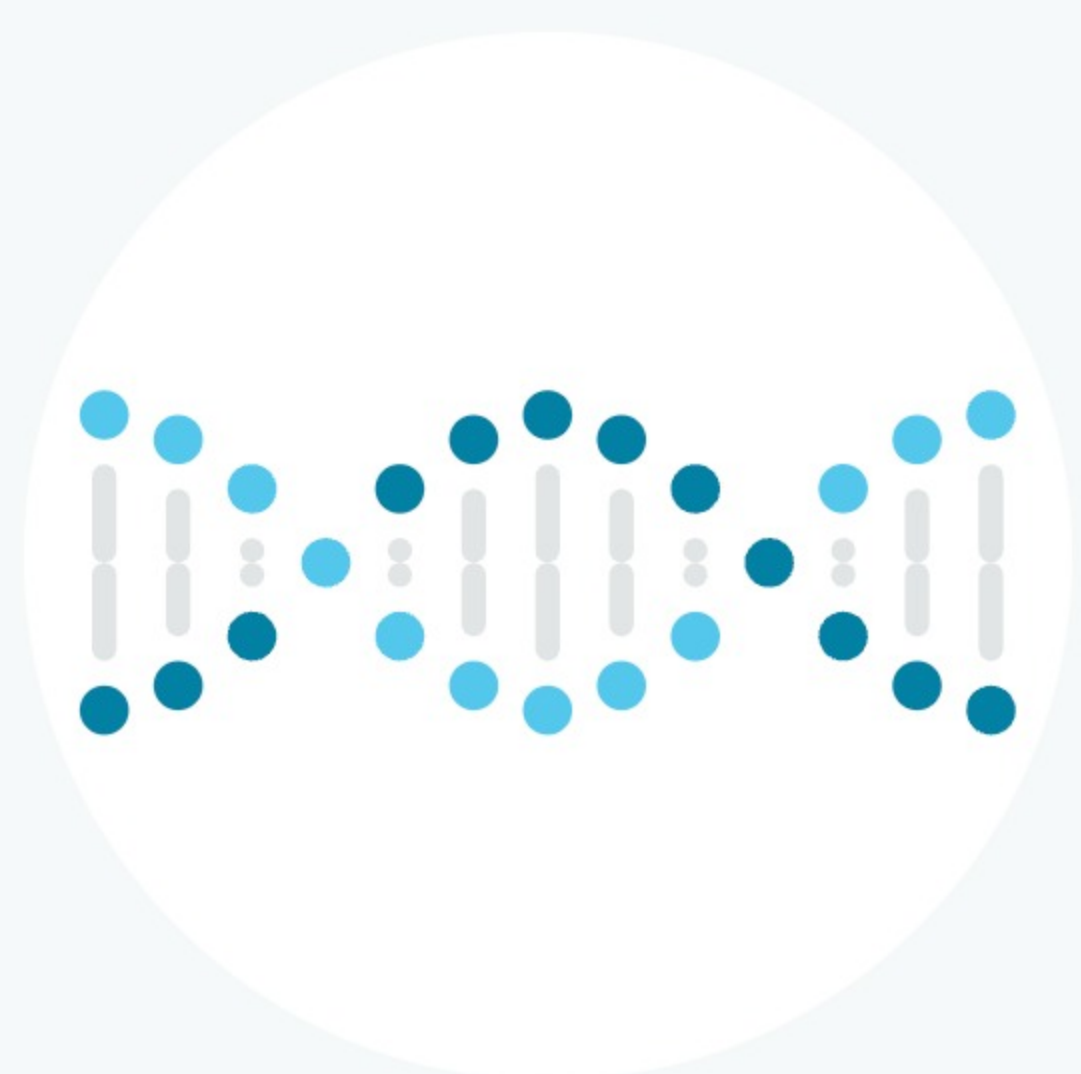
- Limitations

- 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 expected to identify the majority of carriers of **European** descent.

You are likely not a carrier.

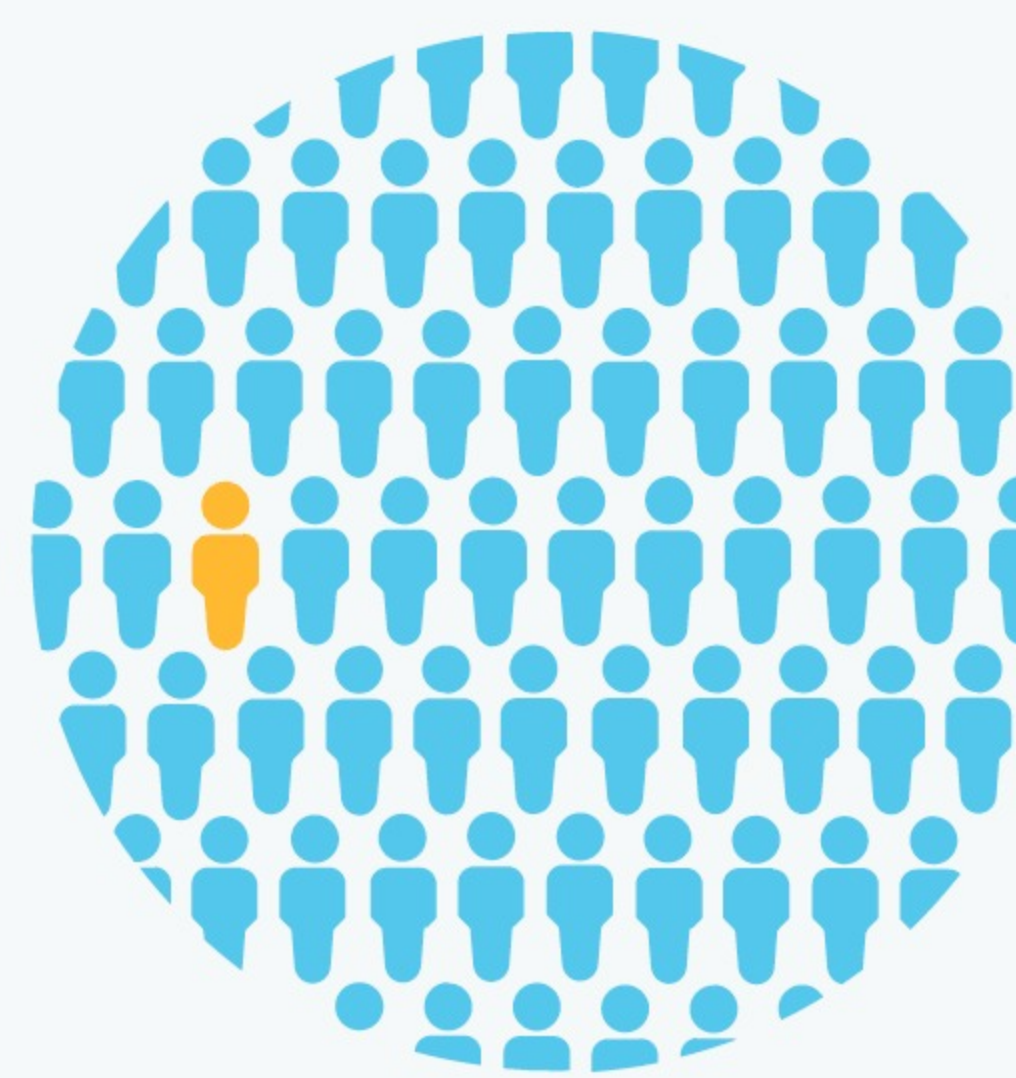


We ruled out the tested variant for LGMD2I.

You still have a chance of being a carrier for LGMD2I.

You may still have up to a **1 in 520 chance** of carrying a variant not covered by this test.

[See Scientific Details](#)



About Limb-Girdle Muscular Dystrophy Type 2I

Also known as: Dystroglycanopathy, Muscular Dystrophy-Dystroglycanopathy Type C5

📅 When symptoms develop

Symptoms typically develop between early childhood and early adulthood.

🚨 Typical signs and symptoms

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

👥 Ethnicities most affected

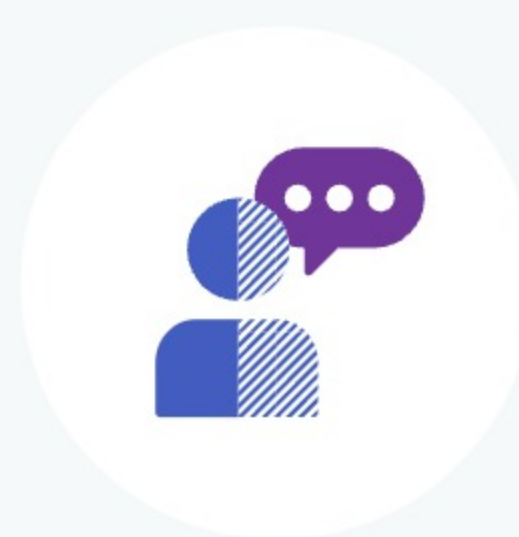
This condition is rare in all ethnicities.

🏥 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.

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](#)



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Limb-Girdle Muscular Dystrophy Type 2I

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Overview [Scientific Details](#)

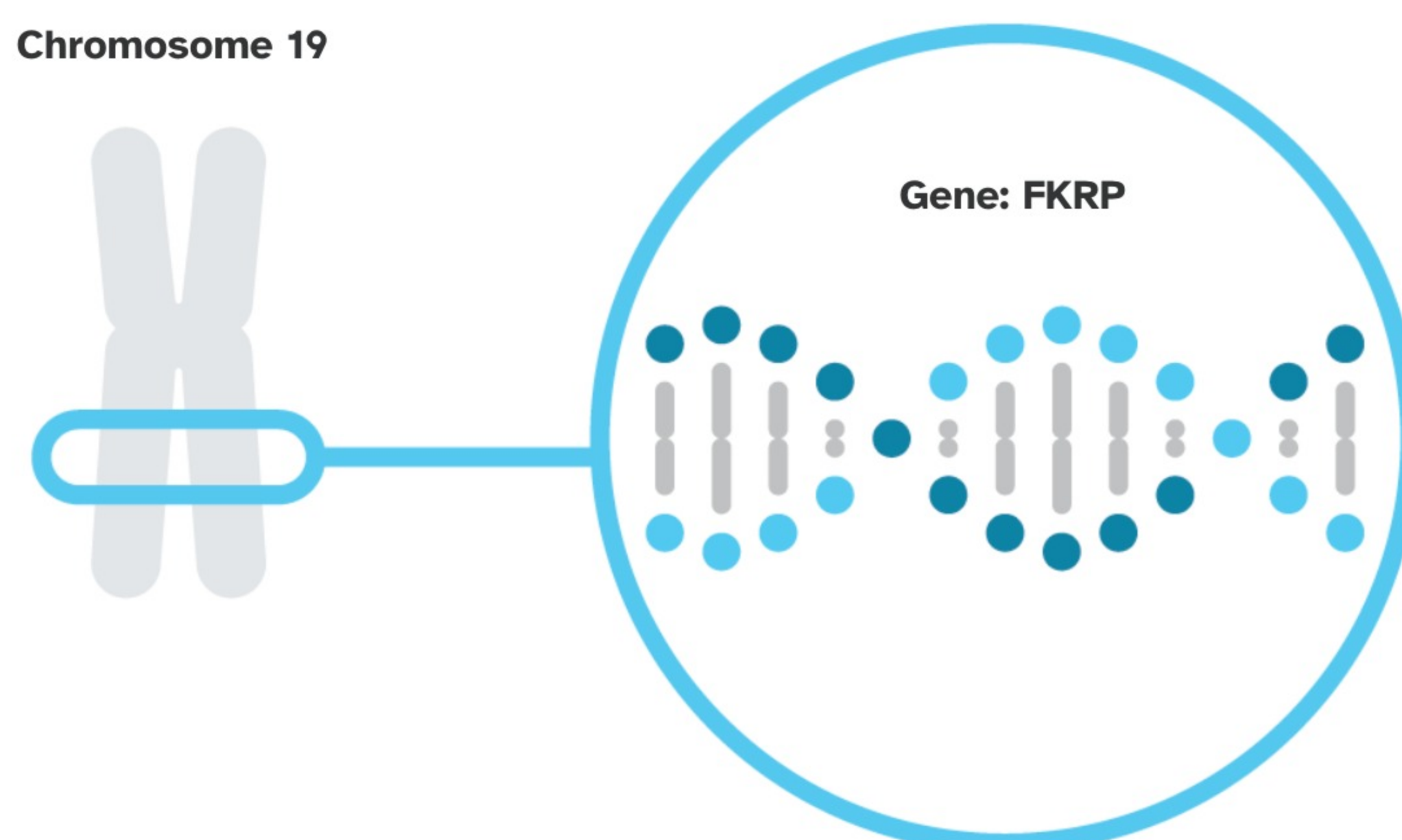
LGMD2I is caused by variants in the FKRP gene.

FKRP

The FKRP gene contains instructions for making a protein that is found at especially high levels in muscle tissue. Its function is not fully understood, but it is believed to be involved in stabilizing and protecting muscle fibers.

Read more at [Genetics Home Reference](#)



Chromosome 19



You have no variants detected by this test.

Variants Detected

[View All Tested Markers](#)

Marker Tested	Your Genotype*	Additional Information
L276I Gene: FKRP Marker: rs28937900	C Typical copy from one of your parents 	C Typical copy from your other parent 
		<ul style="list-style-type: none"> Biological explanation Typical vs. variant DNA sequence(s) Percent of 23andMe customers with variant References [1, 2, 3, 4, 5, 7, 8] ClinVar

*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

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 European descent only.

- For people of partial European descent, post-test carrier risk is less than that for those who are fully European. The exact post-test risk depends on how much European 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

European	1 in 520	[3, 8]
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Test Details

Indications for Use

The 23andMe PGS Carrier Status Test for Limb-Girdle Muscular Dystrophy Type 2I is indicated for the detection of the L276I variant in the FKRP gene. This test is intended to be used to determine carrier status for LGMD2I in adults, but cannot determine if a person has two copies of a tested variant.

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.

European	62%	[2, 3]
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Analytical Performance

Accuracy was determined by comparing results from this test with results from sequencing. Greater than 99% of test results were correct. While unlikely, this test may provide false positive or false negative results. For more details on the analytical performance of this test, refer to the package insert.

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

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- Walter MC et al. (2004). "FKRP (Δ26C>A) frequently causes limb-girdle muscular dystrophy in German patients." *J Med Genet.* 41(4):e50. ↗

Change Log

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

Date	Change
Oct. 21, 2015	Limb-Girdle Muscular Dystrophy Type 2I report created.



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