Cystic Fibrosis

Cystic Fibrosis is a genetic disorder characterized by impaired lung and digestive function. A person must have two variants in the CFTR gene in order to have this condition.

play+dad71b0ecd, you have one of the variants we tested.
You could pass this variant on to your children.

1 variant detected
in the CFTR gene

How To Use This Test

This test does not diagnose any health conditions. Please talk to a healthcare professional if the condition runs in your family, you think you might have this condition or you have any concerns about your results.

See Scientific Details

Intended Uses

- Tests for multiple variants in the CFTR gene.
- To identify carrier status for cystic fibrosis.

Limitations

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

Important Ethnicities

- This test is most relevant for people of European, Hispanic/Latinx, and Australian Jewish descent.

You are a carrier.

You could pass this variant on to your children.

We detected one variant for cystic fibrosis.
People with only one variant are not expected to have cystic fibrosis.

Your results may be relevant for you if you’re thinking about starting a family.

If you and your partner are carriers of cystic fibrosis, there is a 25% chance of having a child with the condition. Your healthcare provider may wish to consider testing if they plan to have children.

About Cystic Fibrosis

- Symptoms typically develop during infancy.
- Chronic cough.
- Lung infections.
- Poor weight gain/development.
- Infertility.
- Insulin-dependent diabetes.

Read more at: Genetic Home Reference**, GeneTests**, Mayo Clinic**.

Consider talking to a healthcare professional if you are thinking about having children.

If you’re expecting 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 your family.

View your report

If you have other concerns about your results, consult with a healthcare professional.

Post report

Learn more about this condition and connect with support groups.

Learn more
Cystic fibrosis is caused by variants in the CFTR gene.

**Scientific Details**

The CFTR gene contains instructions for making a protein called cystic fibrosis transmembrane conductance regulator. This protein helps control the sweat and mucus balance of body organs, allowing cells to function properly. Cystic fibrosis is caused by variants in the CFTR gene, which can cause the protein to malfunction. This can lead to the accumulation of thick mucus, which can cause problems with the lungs, digestive system, and other organs to produce abnormally thick mucus. This process can cause the respiratory system to become inflamed and a range of symptoms of cystic fibrosis.

Read more about Cystic Fibrosis Reference:

You have one variant detected by this test.

**Genes Detected**

| Gene Name | Population | % of Variants | % of Variants
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<tbody>
<tr>
<td>CFTR</td>
<td>All</td>
<td>100%</td>
<td>100%</td>
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**Additional Information**

- **Disease Type**: Cystic Fibrosis
- **Clinical Significance**: High
- **Lab Test**: DNA Sequencing
- **Test Details**: This test includes sequencing of the entire coding region of the CFTR gene.

**Indications for Use**

The Zelioa cfDNA Pan Genetic Test for Cystic Fibrosis is indicated for the detection of 200+ CFTR gene variants in a single test. This test is intended to identify carriers or affected individuals in any family, including those in which Cystic Fibrosis is not known to be present.

**Test Performance Summary**

- **Sensitivity**: 99.9%
- **Specificity**: 99.9%
- **Positive Predictive Value**: 99.9%
- **Negative Predictive Value**: 99.9%

**Warnings and Limitations**

- **This test does not cover all variants that could cause cystic fibrosis.**
- **This test does not diagnose any health conditions.**
- **Positive results indicate that the affected individual is at risk for cystic fibrosis.**
- **Each individual should consult with a healthcare professional for medical and genetic counseling.**
- **Tests should be conducted by a healthcare professional.**

**References**


**Change Log**

- **Date**: 2013-11-05
- **Description**: Update to the report for cystic fibrosis.
- **Author**: Zelioa Laboratories
- **Version**: 2.0.0