Hereditary Thrombophilia

Hereditary thrombophilia is an inherited tendency to develop blood clots (thrombosis). The most common blood clots form in veins (venous thrombosis), usually in the deep veins of the legs (deep vein thrombosis) or veins in the lungs (pulmonary vessels) (pulmonary thromboembolism).

Clark, you have **one** of the two genetic variants we tested.

People with this variant have a slightly increased risk of developing harmful blood clots based on your genetic result.

1 variant detected
in one F2 gene

How To Use This Test

The two laws of genome inheritance, thrombophilia in you other health conditions.

Your genetic test results are based on the two laws of genome inheritance. Each person has two copies of each gene, one from the mother, one from the father.

Review the Genetic Health Risk section

See the Scientific Details

See Frequently Asked Questions

- **Intended Uses**
  - Tests for the Factor II Protein variant in the F2 gene and the **Prothrombin G20210A** variant in the F2 gene to detect the hereditary thrombophilia.
- **Limitations**
  - Test **cannot** rule out all possible variants linked to hereditary thrombophilia.
  - Test **cannot** be used to predict the onset of hereditary thrombophilia.
- **Important Effectives**
  - Test results are for the detection of the most common and well-studied variants in the F2 gene associated with thrombophilia.
  - These variants are also found in a population with European ancestry, the African American and Hispanic population.

You have a **slightly increased risk** of developing harmful blood clots based on your genetic result.

You may want to discuss this result with a healthcare professional, especially if you have other risk factors.

We detected the Prothrombin G20210A variant in the F2 gene.

This variant affects one allele in your genome and is detected in the:

See Scientific Details

People with this variant have a slightly increased risk of developing harmful blood clots.

Other factors can also influence your chances of developing harmful blood clots.

Since you share DNA with your family members, they may also be interested in this result.

You can share this result with your family members.

See Scientific Details

Lifestyle and other factors can also influence the chances of developing harmful blood clots.

Consult with a healthcare professional to learn more about lifestyle factors that may impact thrombosis risk.

See Scientific Details for more information

About Hereditary Thrombophilia

Hereditary thrombophilia is an inherited tendency to develop blood clots (thrombosis). The most common blood clots are formed in veins (venous thrombosis), usually in the deep veins of the legs (deep vein thrombosis) or veins in the lungs (pulmonary vessels) (pulmonary thromboembolism).

What is thrombosis?

Thrombosis is a blood clot that forms in a blood vessel. Hereditary thrombophilia is a genetic disorder that increases the risk of developing harmful blood clots in veins and arteries.

Symptoms and symptoms of harmful blood clots

- Deep vein thrombosis, leg swelling or pain in your leg
- Chest pain
- Pulmonary embolism
- Hereditary thrombophilia may also increase the risk with recurrent fetal pregnancy loss in some women

How common is the condition?

Hereditary thrombophilia is a common genetic disorder. Approximately 1 in 5 people in the general population have an inherited thrombophilia.

Read more at: Mayo Clinic - Genetic Blood Clotting Disorder (Factor V Leiden) - Genetic Home Reference (NLM/NIH)

Consider sharing this result with a healthcare professional, especially if you have other risk factors.

If you have a personal or family history of harmful blood clots, consult with a healthcare professional.

Find a Doctor

If you have questions about your results or how they might affect you or your family, speak to a healthcare professional.

Learn More

See our Frequently Asked Questions for more information

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Scientific Details

Hereditary thrombophilia is the tendency to develop harmful blood clots in veins. The most harmful blood clots form inside a person's body and can be fatal if not treated in the first. This test includes the two most common thrombophilia variants in the F2 gene, Factor II and Prothrombin.

Hereditary thrombophilia is linked to variants in multiple genes.

The report includes one variant in the F2 gene and one variant in the F5 gene. The test does not cover variants in other genes linked to hereditary thrombophilia.

F2 F5

The F2 gene codes a protein that is making a coagulation factor called prothrombin. Prothrombin is a protein that helps blood clot. Variants in the F2 gene can cause an increase in the amount of prothrombin in the blood, leading to an increased risk of developing harmful blood clots. This test looks for two specific variants that increase the risk of thrombosis.

Read more at: Genetics Home Reference

Chromosome 11

Gene: F2

Gene: F5

Chromosome 1

Prothrombin G20210A

- Biological explanation
- Typical vs. mean DNA sequences
- Percent of healthy volunteers with variant
- References [1,2,3,4,5,6,7,8,9,10,11] Show

Factor II Protein

- Biological explanation
- Typical vs. mean DNA sequences
- Percent of healthy volunteers with variant
- References [1,2,3,4,5,6,7,8,9,10,11] Show

Prothrombin is a protein that helps blood clot. Variants in the F2 gene can cause an increase in the amount of prothrombin in the blood, leading to an increased risk of developing harmful blood clots. This test looks for two specific variants that increase the risk of thrombosis.

Factor II is a protein that helps blood clot. Variants in the F5 gene can cause an increase in the amount of Factor II in the blood, leading to an increased risk of developing harmful blood clots. This test looks for two specific variants that increase the risk of thrombosis.

You have one of the two genetic variants we tested.

Variants Detected

You do not have these variants

Marker Tested	Your Genotype*
Factor II (rs1799963) Allele	G/A
Prothrombin (rs1799963) Allele	G/A

*Genotype: The two alleles that you have for a particular gene. Each parent passes on one allele to their child.

Prothrombin G20210A

Factor II

Typical genotype: G/G

Mean: G/G

Your genotype: G/A

Typical genotype: G/G

Mean: G/G

Your genotype: G/A

Typical genotype: G/G

Mean: G/G

Your genotype: G/A