Hereditary Cancer Genetic Test

What is the Hereditary Cancer Genetic Test?

The Hereditary Cancer Genetic Test analyzes 29 genes linked to inherited risks for common cancers, including breast, colorectal, uterine, ovarian, prostate, and more. This test can provide valuable insights to help you and your healthcare providers plan for early detection, preventive measures, and personalized care.

What Does This Test Look For?

Hereditary Cancer Genetic Test: Analyzes 29 genes for genetic variants (also called mutations) that may increase your risk for the 8 most common hereditary cancer types. These genes include:

APC, ATM, BAP1, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A (p14ARF), CDKN2A (p16INK4a), CHEK2, EPCAM, GREM1, MITF, MLH1, MSH2, MSH6, MUTYH, PALB2, PMS2, POLD1, POLE, PTEN, RAD51C, RAD51D, SMAD4, STK11, TP53

To learn more, see the Gene Tables on page 3.

What are the possible results?

Something important is found

A meaningful genetic change is identified that could impact your health.

Nothing significant is found

No increased risk for the hereditary conditions were found in the genes tested.

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What are the possible results?

Earlier interventions, at every step: Insights into your cancer and heart health can guide your healthcare providers in recommending regular screenings or lifestyle changes that suit your needs.

Medication choices: Your results can help guide your doctor in selecting the safest and most effective medications for you.

Family health insights: Your results may also provide useful health information for family members, as some genetic risks can be shared among relatives.

What happens after I get my results?

Color's care team will ensure you understand the result and the next steps associated with the result to take action on your health. We recommend that you share your Color test results with your healthcare provider. This can help you and your provider create a personalized healthcare plan. If you don't have your own healthcare provider, Color's care team can help get you connected to one in your area.

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Gene	Hereditary Condition	Associated Cancers
APC	Familial adenomatous polyposis (FAP), Attenuated FAP	Colon, thyroid, brain, stomach, small bowel
ATM	Hereditary breast and pancreatic cancer	Breast, pancreatic
BAP1	BAP1 tumor predisposition syndrome	Melanoma, kidney, lung
BARD1	Hereditary breast cancer	Breast
BMPR1A	Juvenile polyposis syndrome	Colon, stomach
BRCA1	Hereditary breast and ovarian cancer syndrome	Breast, ovarian, pancreatic, prostate
BRCA2	Hereditary breast and ovarian cancer syndrome	Breast, ovarian, melanoma, pancreatic, prostate
BRIP1	Hereditary ovarian cancer	Ovarian
CDH1	Hereditary diffuse gastric cancer	Breast, stomach
CDK4	Familial atypical mole-malignant melanoma syndrome	Melanoma, pancreatic
CDKN2A	FAMMM, Melanoma and neural system tumor syndrome	Melanoma, pancreatic, nervous system
CHEK2	Hereditary breast cancer	Breast, prostate
EPCAM	Lynch syndrome	Colon, uterine, ovarian, stomach, pancreatic, prostate
GREM1	Hereditary mixed polyposis syndrome	Colon
MITF	Hereditary melanoma and kidney cancer	Melanoma, kidney
MLH1	Lynch syndrome	Colon, uterine, ovarian, stomach, pancreatic, prostate
MSH2	Lynch syndrome	Colon, uterine, ovarian, stomach, pancreatic, prostate
MSH6	Lynch syndrome	Colon, uterine, ovarian, stomach, prostate
MUTYH	MUTYH-associated polyposis	Colon, uterine, ovarian, stomach, prostate
PALB2	Hereditary breast and ovarian cancer	Breast, ovarian, pancreatic
POLD1	Polymerase proofreading-associated polyposis	Colon
POLE	Polymerase proofreading-associated polyposis	Colon
PMS2	Lynch syndrome	Colon, uterine, ovarian, stomach
PTEN	PTEN hamartoma tumor syndrome	Breast, thyroid, uterine, kidney, colon
RAD51C	Hereditary breast and ovarian cancer	Breast, ovarian
RAD51D	Hereditary breast and ovarian cancer	Breast, ovarian
SMAD4	Juvenile polyposis syndrome	Colon, stomach
STK11	Peutz-Jeghers syndrome	Breast, colon, stomach
TP53	Li-Fraumeni syndrome	Breast, colon, brain, pancreatic, sarcoma