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sentis™
Hereditary Cancer Panel

BGI SENTIS™ Hereditary Cancer Panel

Introduction

Individuals with a family history of cancer may have an increased risk of cancer if they have inherited a cancer-causing mutation. Different gene mutations can cause diverse types of cancer. The BGI SENTIS™ Hereditary Cancer Panel analyzes germline mutations across **79 genes** associated with **24 types of hereditary cancer**, including some of the most common cancer types, such as hereditary breast, ovarian, colorectal, prostate, and stomach cancer. Identification of cancer-causing mutations can help confirm a diagnosis, guide treatment and health management decisions, or guide further testing of at-risk relatives.

Advantages

Comprehensive
Whole exome plus flanking intronic regions covered for all genes tested; one single assay that detects point mutations, deletions, insertions, duplications and rearrangements*

Robust
Clinically important (pathogenic or likely pathogenic) variants are verified by Sanger Sequencing, while large gene rearrangements are verified by qPCR

Convenient
Test from blood or saliva; DNA is also accepted

Professional
A state-of-the-art variant database ensures up-to-date analysis and interpretation. We also have a dedicated genetic counselling team offering professional genetic counselling services via email

*Alterations in methylation and complex genomic aberrations such as uniparental disomy, balanced translocation, inversions, ploidy changes, duplication and deletion of large DNA fragments and/or other rare alternations are not included. Also, there are some regions that cannot be fully covered, including exon15 of CHEK2 gene, and exon1 of STK11 gene.

Hereditary Cancer Screening Products

Product Name	Test Content
Sentis Hereditary Cancer Panel (Female)	74 Genes 23 Cancer Types
Sentis Hereditary Cancer Panel (Male)	79 Genes 22 Cancer Types
Sentis Hereditary Breast and Ovarian Cancer	2 Genes/26 Genes
Sentis Hereditary Colorectal Cancer	23 Genes
Sentis Hereditary Prostate Cancer	23 Genes
Sentis Hereditary Pancreatic Cancer	12 Genes

Who is suitable for the test?

For patients

- confirm the cause of cancer
- guide treatment decisions
- assess the risk of other cancers

For healthy people and relatives

- assess the risk of hereditary cancers
- take necessary interventions for testee and family members

Sample Requirements

Saliva: ≥2ml

peripheral blood: ≥5ml

good quality DNA: ≥3μg

TAT

14 calendar days at ISO15189 certified lab in Europe

26 calendar days at CAP&CLIA certified lab in Asia

Workflow

1. Counselling and Consent
2. Sample Collection
3. DNA Extraction and QC
4. Targeted Capture and NGS
5. Data Analysis and Interpretation
6. Report Ready
7. Genetic Counselling

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