> “ Knowledge of an increased genetic risk to cancer enables you to work with your patient to create a personalized plan designed to prevent or detect cancer at an earlier and more treatable stage.
>
> It has got to be a priority to ensure that more women can access gene testing and lifesaving preventive treatment, whatever their means and background, wherever they live. ”

Angelina Jolie, New York Times (May 14, 2013)

The Power of Knowing

BGI SENTIS™ Hereditary Breast and Ovarian Cancer Test

Introduction

Germline mutations in BRCA1 and BRCA2 genes have been associated with an increased risk of breast and ovarian cancer.[1] Approximately 25% of hereditary breast cancer cases are caused by BRCA1 and BRCA2 mutations,[2] and around 10% of all breast cancers.[3] Mutations in BRCA1 and BRCA2 account for around 15% of ovarian cancers overall.[4] With BGI’s CAP-certified Sentis BRCA test, you can be assured that no pathogenic variant will be missed. BGI provides targeted and affordable BRCA1 and BRCA2 testing, and also offers an extended 21-gene panel that analyzes other relevant genes for mutations that could also increase the risk of hereditary breast and ovarian cancer, as recommended by medical guidelines.[5]

Knowledge of an increased genetic risk enables you to work with your patient to create a personalized plan designed to prevent or detect cancer at an earlier and more treatable stage.

[1] Nature Genetics 15, 103 - 105 (1997)

[2] Breast Cancer Research 1999; 1(1):14–17.

[3] Human Genetics 2008; 124(1):31–42.

[4] Cancer 2005; 104(12):2807–16.

[5] National Comprehensive Cancer Network (NCCN). Genetic/Familial High-Risk Assessment: Breast and Ovarian.

Advantages

Comprehensive Whole exome plus flanking intronic regions covered for all genes tested; one single assay that detects point mutations, deletions, insertions, duplications, 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 peripheral blood or saliva.

Professional 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 24x7 through 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.

Sample Requirements

5mL of peripheral blood or 2mL of saliva or ≥2μg good quality DNA

Turnaround time

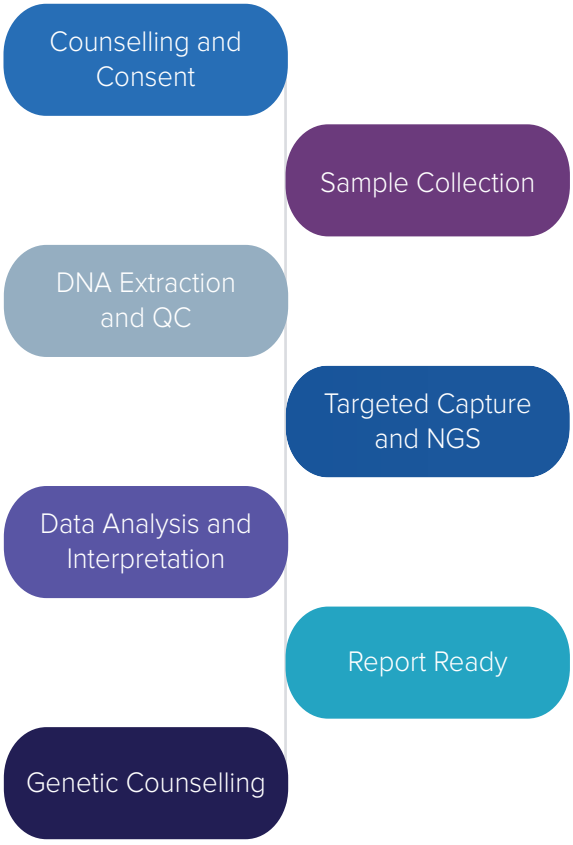
20 working days (from sample arriving at BGI lab to report).

Samples are sequenced at either our ISO15189 certified laboratory in Copenhagen or our CAP certified laboratory in Hong Kong.

Ordering Information

ITEM	CATALOG NO.
BGI SENTIS™ BRCA (2 genes) BRCA1, BRCA2	DX0648
BGI SENTIS™ Hereditary Breast and Ovarian (HBOC) (21 genes): BRCA1, BRCA2, CHEK2, PALB2, BRIP1, TP53, PTEN, STK11, CDH1, ATM, BARD1, MLH1, NBN, MRE11A, MSH2, MSH6, MUTYH, PMS1, PMS2, RAD50, RAD51C	DX0647

Workflow



Contact your local BGI representative for more information or email **info@bgi-international.com**.

More information can also be found on our website.

www.bgi.com/global/

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For Research Use Only. Not for use in diagnostic procedures.

Testing services not currently available in the United States of America. Please contact a representative for regional availability.