Baylor Miraca Genetics Laboratories

HIGH-RISK BREAST PANEL

BRCA1, BRCA2, CDH1, PALB2, PTEN, STK11 and TP53

Hereditary breast cancer accounts for approximately 5% to 10% of breast cancer cases. Approximately 25% to 50% of hereditary breast cancer cases have mutations in the BRCA1 or BRCA2 genes.

The High Risk Hereditary Breast Cancer Panel uses next generation sequencing and deletion/duplication analysis to simultaneously analyze 7 genes that correlate with a high lifetime risk of breast cancer. Mutations in these genes are also associated with an increased risk of several other types of cancer as outlined below.

Associated Cancers

BRCA1	Ovarian, fallopian tube, pancreatic
BRCA2	Ovarian, prostate, fallopian tube, pancreatic
CDH1	Colorectal, stomach
PALB2	Pancreatic, ovarian
PTEN	Colorectal, thyroid, uterine, kidney
STK11	Colorectal, ovarian, pancreatic
TP53	Associated with several cancer types