

BREAST AND GYNECOLOGIC GENES AND ASSOCIATED RISKS

GENE(S)	ASSOCIATED CANCERS AND RISKS
ATM*	Breast, pancreatic, prostate
BRCA1*	Female breast, male breast, ovarian, pancreatic, prostate
BRCA2*	Female breast, male breast, ovarian, pancreatic, melanoma, prostate
CDH1*	Diffuse gastric, female breast
CHEK2*	Breast, colorectal, prostate, other
PALB2*	Female breast, male breast, pancreatic, ovarian, prostate
PTEN*	Breast, thyroid, uterine, colorectal, renal, melanoma
TP53*	Breast, sarcoma, brain, adrenocortical, leukemia, other
BRIP1*	Ovarian
EPCAM	Colorectal, uterine, stomach, ovarian, other
MLH1	Colorectal, uterine, stomach, ovarian, other
MSH2	Colorectal, uterine, stomach, ovarian, other
MSH6	Colorectal, uterine, other
NBN*	
NF1*	Female breast, malignant nerve sheath tumors, Pheochromocytoma, brain, other
PMS2*	Colorectal, uterine, other
RAD51C*	Ovarian, female breast
RAD51D*	Ovarian, female breast
BARD1	Female breast
DICER1	Primary ovarian blastoma, omental mesothelioma, ovarian sex-cord tumors, brain, other
RECQL	
SMARCA4	Ovarian (serous cell carcinoma, hyperdiploid type), brain, other
STK11*	Colorectal, female breast, pancreatic, other
APC*	Colorectal, small bowel, gastric, pancreatic, thyroid, other
MLH3*	Colorectal
BMP1	Colorectal
AD4*	Colorectal, stomach
CDK4	Melanoma
CDKN2A*	Melanoma, pancreatic
GREM1	Colorectal
HOXB13	Prostate
MLH3*	Biallelic mutations: colorectal
MLH1	Biallelic mutations: colorectal, duodenal
NTHL1	Biallelic mutations: Colorectal, other
POLD1*/POLE*	Colorectal

BRCAPlus

BRCANext

BRCANext-Expanded

CancerNext



* Risk management recommendations are provided in the NCCN Guidelines³

+RNAinsight performed for this gene (RNA analysis available only for exons 1-10 for PMS2)

CONTACT INFORMATION