

KNOWN GERMLINE BRCA* MUTATIONS

*BRCA1 and BRCA2 Tumor Suppressor Genes

Everybody has *BRCA1* and *BRCA2* tumor suppressor genes. *BRCA* genes produce proteins that help repair damaged DNA and prevent cancer. **Inherited pathogenic mutations** in these genes are linked to an increased risk of various types of cancer, including breast (men and women), ovarian, prostate, melanoma, pancreatic, and other cancers.

Expert-classified as
pathogenic: 4,905

Likely pathogenic: 3
(not shown on chart)

Expert-classified as benign: 1,363

Expert-classified
as likely benign:
1,182

Not yet reviewed:
65,007 (89.7%)

Total unique BRCA mutations: 72,467

(BRCA1: 35,598 BRCA2: 36,869)