

CustomNext-Cancer GENE DECISION GUIDE*

With CustomNext-Cancer, you can choose from up to 81 hereditary cancer genes to create your own panel that best fits your patient's needs. Below is a list of genes organized by common cancer types. Genes may be listed under more than one cancer type. Mix and match from the list to create your panel.

BREAST

Highest risk: *BRCA1, BRCA2, CDH1, PALB2, PTEN, TP53*

Elevated risk: *ATM, BARD1, BLM, BRIP1, CHEK2, FANCC, MRE11A, MUTYH, NBN, NF1, RAD50, RAD51C, RAD51D, STK11, XRCC2*

PARANGANGLIOMA/ PHEOCHROMOCYTOMA

Highest risk: *RET, SDHAF2, SDHB, SDHD, VHL*

Elevated risk: *FH, MAX, MEN1, NF1, SDHA, SDHC, TMEM127*

BRAIN

Highest risk: *MEN1, MLH1, MSH2, MSH6, NF1, NF2, PTCH1, PMS2, TP53, TSC1, TSC2, VHL*

Elevated risk: *AIP, ALK, APC, CDKN1B, CDKN2A, DICER1, NBN, PHOX2B, POT1, PRKAR1A, PTEN, SMARCA4, SMARCB1, SMARCE1, SUFU*

PANCREATIC

Highest risk: *ATM, BRCA1, BRCA2, CDKN2A, STK11*

Elevated risk: *APC, EPCAM, FANCC, MEN1, MLH1, MSH2, MSH6, PALB2, PMS2, TP53*

Pancreatitis: *CASR, CFTR, CPA1, CTRC, PRSS1, SPINK1*

PROSTATE

Highest risk: *ATM, BRCA1, BRCA2, CHEK2, HOXB13*

Elevated risk: *EPCAM, MLH1, MSH2, MSH6, NBN, PALB2, PMS2, RAD51D, TP53*

OTHER

Elevated risk: *CDC73, EGFR, KIT, PDGFRA*

OVARIAN

Highest risk: *BRCA1, BRCA2, BRIP1, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, RAD51C, RAD51D*

Elevated risk: *BARD1, CHEK2, DICER1, MRE11A, NBN, RAD50, SMARCA4, STK11, TP53*

UTERINE

Highest risk: *EPCAM, MLH1, MSH2, MSH6, PMS2, PTEN*

Elevated risk: *MUTYH, TP53*

MELANOMA

Highest risk: *CDK4, CDKN2A*

Elevated risk: *BAP1, BRCA2, MITF, PTEN, RB1, TP53*

STOMACH

Highest risk: *BMPR1A, CDH1, EPCAM, MLH1, MSH2, MSH6, PMS2, SMAD4*

Elevated risk: *APC, CTNNA1, MEN1, MUTYH, NF1, STK11, TP53*

KIDNEY

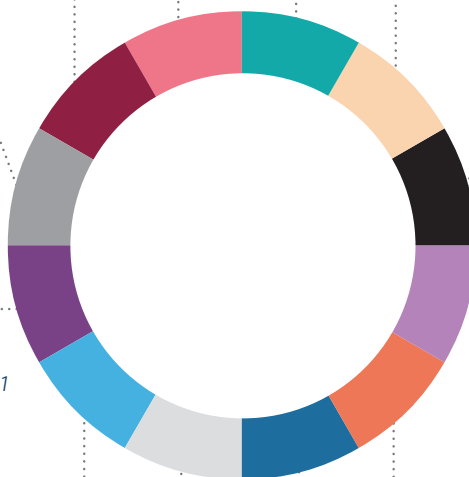
Highest risk: *FH, FLCN, MET, PTEN, SDHB, VHL*

Elevated risk: *BAP1, EPCAM, MITF, MLH1, MSH2, MSH6, PMS2, SDHA, SDHC, SDHD, TP53, TSC1, TSC2*

COLORECTAL

Highest risk: *APC, BMPR1A, EPCAM, MLH1, MSH2, MSH6, MUTYH, PMS2, SMAD4, STK11*

Elevated risk: *AXIN2, BLM, CDH1, CHEK2, GALNT12, GREM1, MSH3, NTHL1, PTEN, POLD1, POLE, TP53*



Gene options on this panel include: *AIP, ALK, APC, ATM, AXIN2, BAP1, BARD1, BLM, BRCA1, BRCA2, BRIP1, BMPR1A, CASR, CDC73, CDH1, CDK4, CDKN1B, CDKN2A, CFTR, CHEK2, CPA1, CTNNA1, CTRC, DICER1, EGFR, EPCAM, FANCC, FH, FLCN, GALNT12, GREM1, HOXB13, KIT, MAX, MEN1, MET, MITF, MLH1, MRE11A, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NF2, NTHL1, PALB2, PDGFRA, PHOX2B, POT1, PMS2, POLD1, POLE, PRKAR1A, PRSS1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RB1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA4, SMARCB1, SMARCE1, SPINK1, STK11, SUFU, TMEM127, TP53, TSC1, TSC2, VHL, XRCC2*

*The figure depicts primary cancer risks and does not include all gene-specific associated cancers.