

CancerNext-*Expanded* | Genes and Associated Cancer Risks



Each gene on this test is associated with different types of cancer, however, cancer risks vary by gene. If there is a check mark, it means someone with a mutation in this gene may have an increased chance to develop those types of cancer. Talk to your healthcare provider for more information regarding the specific cancer risks linked to each gene.

GENE(S)	BREAST	OVARIAN	COLORECTAL	UTERINE	PANCREATIC	PROSTATE	STOMACH	KIDNEY	ENDOCRINE*	BRAIN OR OTHER NERVOUS SYSTEM	MELANOMA	OTHER
<i>AIP</i>										✓		
<i>ALK</i>										✓		✓
<i>APC</i>			✓		✓		✓		✓	✓		✓
<i>ATM</i>	✓				✓	✓						
<i>BAP1</i>								✓			✓	✓
<i>BARD1, MRE11A, RAD50</i>	✓											
<i>BLM</i>	✓		✓									
<i>BRCA1</i>	✓	✓			✓	✓						
<i>BRCA2</i>	✓	✓			✓	✓					✓	
<i>BRIP1</i>	✓	✓										
<i>BMPRI1A, SMAD4</i>			✓				✓					
<i>CDH1</i>	✓						✓					
<i>CDK4</i>											✓	
<i>CDKN1B</i>									✓	✓		✓
<i>CDKN2A</i>					✓					✓	✓	
<i>CHEK2</i>	✓		✓			✓						✓
<i>DICER1</i>		✓								✓		✓
<i>FANCC</i>	✓											
<i>FH</i>								✓	✓			✓
<i>FLCN</i>								✓				
<i>GALNT12</i>			✓									
<i>GREM1</i>			✓									
<i>HOXB13</i>						✓						
<i>MAX</i>									✓			
<i>MEN1</i>									✓	✓		✓
<i>MET</i>								✓				

* Endocrine indicates at least one of the following: paraganglioma, pheochromocytoma, thyroid cancer, carcinoid tumors, pancreatic neuroendocrine tumors, and/or adrenal tumors

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MITF								✓			✓	
MLH1, MSH2, MSH6, PMS2, EPCAM		✓	✓	✓	✓	✓	✓	✓		✓		✓
MUTYH	✓		✓									
NBN	✓					✓				✓		✓
NF1	✓								✓	✓		✓
NF2									✓	✓		✓
PALB2	✓	✓			✓	✓						
PHOX2B										✓		✓
POLD1, POLE			✓									
POT1										✓		
PRKAR1A									✓	✓		✓
PTCH1										✓		✓
PTEN	✓		✓	✓				✓	✓	✓	✓	✓
RAD51C	✓	✓										
RAD51D	✓	✓				✓						
RB1											✓	✓
RET									✓			
SDHA, SDHAF2, SDHB, SDHC, SDHD								✓	✓			
SMARCA4		✓								✓		✓
SMARCB1								✓		✓		✓
SMARCE1										✓		
STK11	✓	✓	✓		✓							✓
SUFU										✓		✓
TMEM127									✓			
TP53	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TSC1, TSC2								✓		✓		✓
VHL								✓	✓	✓		✓
XRCC2	✓											

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