

# Genes and associated cancers



GENES	BREAST & GYN	ENDOCRINE	GASTROINTESTINAL	RENAL/ URINARY TRACT	HEMATOLOGIC	NERVOUS SYSTEM/ BRAIN	PROSTATE	SARCOMA	SKIN
ANKRD26					✓				
APC		✓	✓			✓		✓	
ATM	✓		✓				✓		
AXIN2			✓						
BAP1				✓					✓
BARD1	✓								
BMPR1A			✓						
BRCA1	✓		✓				✓		
BRCA2	✓		✓				✓		✓
BRIP1	✓								
CDC73		✓		✓					
CDH1	✓		✓						
CDK4									✓
CDKN1B		✓	✓						
CDKN2A			✓			✓			✓
CEBPA					✓				
CHEK2	✓	✓	✓				✓		
CTNNA1			✓						
DDX41					✓				
DICER1	✓	✓		✓		✓		✓	
EGFR‡									
EPCAM	✓		✓	✓		✓	✓		✓
ETV6					✓				
FH		✓		✓		✓		✓	
FLCN				✓					
GALNT12			✓						
GATA2					✓				
GREM1			✓						
HOXB13							✓		
KIT			✓					✓	
MAX		✓				✓			
MEN1		✓	✓			✓			
MET				✓					
MITF									✓
MLH1	✓		✓	✓		✓	✓		✓
MLH3			✓						
MSH2	✓		✓	✓		✓	✓		✓
MSH3			✓*						✓
MSH6	✓		✓	✓		✓	✓		✓
MUTYH			✓*						✓
NF1	✓	✓	✓			✓		✓	
NF2						✓			
NTHL1			✓*						
PALB2	✓		✓						
PDGFRA			✓					✓	
PMS2	✓		✓	✓		✓	✓		✓
POLD1			✓						
POLE			✓						
POT1						✓		✓	✓
PRKAR1A		✓				✓		✓	✓
PTCH1						✓		✓	✓
PTEN	✓	✓	✓	✓		✓			✓
RAD51C	✓								
RAD51D	✓								
RB1						✓ (retinoblastoma)		✓	✓
RET		✓				✓			
RNF43			✓						
RUNX1					✓				
SDHA		✓	✓			✓		✓	
SDHAF2		✓				✓			
SDHB		✓	✓	✓		✓		✓	
SDHC		✓	✓	✓		✓		✓	
SDHD		✓	✓			✓		✓	
SMAD4			✓						
SMARCA4	✓			✓		✓			
SMARCB1				✓		✓			
STK11	✓		✓						
TMEM127		✓				✓			
TP53	✓	✓	✓	✓	✓	✓	✓	✓	✓
TSC1		✓	✓	✓		✓			
TSC2		✓	✓	✓		✓			
VHL		✓	✓	✓		✓			
WT1				✓					

\* These risks apply to biallelic individuals only (having two pathogenic/likely pathogenic variants, one on each copy of the gene)  
 ‡ Certain variants in EGFR are associated with hereditary lung cancer.