

Multi-cancer panel: genes and associated cancers

GENES	Breast & GYN	Endocrine	Gastrointestinal	Renal / Urinary Tract	Hematologic	Nervous System / Brain	Prostate	Sarcoma	Skin
AIP		✓							
ALK						✓			
APC		✓	✓			✓		✓	
ATM	✓		✓				✓		
AXIN2			✓						
BAP1				✓					✓
BARD1	✓								
BMPR1A			✓						
BRCA1	✓		✓				✓		
BRCA2	✓		✓				✓		✓
BRIP1	✓								
CDC73		✓		✓					
CDH1	✓		✓						
CDK4									✓
CDKN1B		✓	✓						
CDKN2A			✓			✓			✓
CEBPA					✓				
CHEK2	✓	✓	✓				✓		
CTNNA1			✓						
DDX41					✓				
DICER1	✓	✓		✓		✓		✓	
EGFR†									
EGLN1					✓	✓			
EPCAM	✓		✓	✓		✓	✓		✓
ETV6					✓				
EXT1								✓	
EXT2								✓	
FH		✓		✓		✓		✓	
FLCN				✓					
GALNT12			✓						
GATA2					✓				
GREM1			✓						
HOXB13							✓		
KIF1B		✓				✓			
KIT			✓					✓	
LZTR1						✓			
MAX		✓				✓			
MEN1		✓	✓			✓			
MET				✓					
MITF									✓
MLH1	✓		✓	✓		✓	✓		✓
MSH2	✓		✓	✓		✓	✓		✓
MSH3			✓*						
MSH6	✓		✓	✓		✓	✓		✓
MUTYH			✓*						
NF1	✓	✓	✓			✓		✓	

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NF2						✓			
NTHL1			✓*						
PALB2	✓		✓						
PDGFRA			✓					✓	
PHOX2B						✓			
PMS2	✓		✓	✓		✓	✓		✓
POLD1			✓						
POLE			✓						
POT1						✓		✓	✓
PRKARIA		✓				✓		✓	
PTCH1						✓		✓	✓
PTEN	✓	✓	✓	✓		✓			✓
RAD51C	✓								
RAD51D	✓								
RB1						✓ (retinoblastoma)		✓	✓
RECQL4					✓*			✓*	✓*
RET		✓				✓			
RNF43			✓						
RPS20			✓						
RUNX1					✓				
SDHA		✓	✓			✓		✓	
SDHAF2		✓				✓			
SDHB		✓	✓	✓		✓		✓	
SDHC		✓	✓	✓		✓		✓	
SDHD		✓	✓			✓		✓	
SMAD4			✓						
SMARCA4	✓			✓		✓			
SMARCB1				✓		✓			
SMARCE1						✓			
STK11	✓		✓						
SUFU						✓		✓	✓
TERT					✓				
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)

† Variants in CASR are associated with endocrine disorders resulting in abnormal calcium levels.

‡ Certain variants in EGFR are associated with hereditary lung cancer.