Hereditary Cancer Reference Guide

Clear guidance for important decisions. Because a test result is only as good as the action it inspires.

Quest Advanced Oncology

Gene	Comprehensive Hereditary Cancer	Guideline-Based Hereditary Cancer	Hereditary Breast Cancer	Hereditary Colorectal Cancer	Hereditary Endocrine Cancer	BRCA Panel Plus	BRCA Panel	Lynch Syndrome	Additional tests available[a]	Brain/CNS	Breast	Colorectal/GI	Thyroid	PGL/PCC	Endocrine other	Gastric	Melanoma	Ovarian	Pancreatic	Prostate	Renal	Uterine / Endometrial	Other cancers	Non-cancerous findings
	Test Codes[b]									Associated Cancers[c]														
	38600	38611	38621	38631	38641	92587	91863	91461																
APC	✔	✔		✔					✔	●		●[d]	●			●			●				●	●
ATM	✔	✔	✔						✔		●								●					
AXIN2	✔	✔		✔								●[d]												●
BAP1	✔								✔								●				●		●	●
BARD1	✔										●													
BLM	✔								✔		●	●												
BMPR1A	✔	✔		✔					✔			●[d]				●			●					●
BRCA1	✔	✔	✔			✔	✔		✔		●							●	●	●				
BRCA2	✔	✔	✔			✔	✔		✔		●						●	●	●	●				
BRIP1	✔	✔																●						
CDH1	✔	✔	✔	✔		✔			✔		●	●				●								
CDK4	✔	✔															●		○					
CDKN1B	✔														●									●
CDKN2A	✔	✔							✔								●		●					
CHEK2	✔	✔	✔						✔		●	●				●				●				
DICER1	✔												●										●	●
EGFR	✔																						●	
EPCAM	✔	✔	✔	✔				✔	✔	●		●				●		●	●	●	●	●	●	
FANCA	✔																			●				
FANCC	✔										●								●					
FANCM	✔										●													
FH	✔				✔				✔				○								●		●	●
FLCN	✔								✔												●			●
GALNT12	✔											●[d]												
GREM1	✔	✔		✔								●[d]												
HOXB13	✔	✔							✔											●				
MAX	✔				✔									●										
MEN1	✔				✔				✔						●									●
MET	✔																				●			
MITF	✔								✔								●				●			
MLH1	✔	✔	✔	✔				✔	✔	○		●				●		●	●			●	●	
MRE11A	✔										●													
MSH2	✔	✔	✔	✔				✔	✔	●		●				●		●	●	●	●	●	●	
MSH3	✔	✔		✔								●[d]												
MSH6	✔	✔	✔	✔				✔	✔	○	●	●				●		●	○			●	●	
MUTYH	✔	✔		✔					✔			●[d]												●
NBN	✔	✔	✔								●									○				
NF1	✔	✔	✔		✔				✔	●	●			●										●
NTHL1	✔	✔		✔								●[d]												
PALB2	✔	✔	✔			✔			✔		●								●					
PMS2	✔	✔	✔	✔				✔	✔	○		●				○		○			○	●	○	
POLD1	✔	✔		✔								●[d]										○		
POLE	✔	✔		✔								●[d]												
POT1	✔									●							●							
PTCH1	✔								✔	●													●	●
PTEN	✔	✔	✔	✔		✔			✔		●	●	●				●				●	●		●
RAD50	✔										●													
RAD51C	✔	✔									○							●						
RAD51D	✔	✔									○							●						
RECQL	✔										●													
RET	✔				✔				✔				●	●	●									●
SDHA	✔				✔									●										●
SDHAF2	✔				✔									●										
SDHB	✔				✔									●							●			●
SDHC	✔				✔									●							●			●
SDHD	✔				✔									●							○			○
SMAD4	✔	✔		✔					✔			●[d]				●			●					●
SMARCA4	✔								✔	●								●			●			
STK11	✔	✔	✔	✔		✔			✔		●	●[d]				●			●			●	●	●
SUFU	✔								✔	●													●	●
TMEM127	✔				✔									●										
TP53	✔	✔	✔	✔		✔			✔	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
TSC1	✔								✔	●											●			●
TSC2	✔								✔	●											●			●
VHL	✔				✔				✔	●				●	●						●			●
XRCC2	✔										●													

● Literature supports association ○ Literature suggests possible association

[a] Call for more information. Single-site testing available for all genes under test code 93945.

[b] Tests selected based on ordering patterns. See page 2 for a complete selection of tests available.

[c] Gene association based on guidelines and internal data.

[d] Colorectal cancer risk with polyposis phenotype.

Please contact **Quest Genomics Client Services at 1.866.GENE.INFO (1.866.436.3463) or visit QuestHereditaryCancer.com with questions**

Hereditary Cancer Complete Genetic Testing Menu

Comprehensive and Guideline-Based Hereditary Cancer panels

Test code	Test name	Genes
38600	**Comprehensive Hereditary Cancer Panel (66 genes)**	*APC, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN1B, CDKN2A (p16, p14), CHEK2, DICER1, EGFR, EPCAM, FANCA, FANCC, FANCM, FH, FLCN, GALNT12, GREM1, HOXB13, MAX, MEN1, MET, MITF, MLH1, MRE11 (MRE11A), MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NTHL1, PALB2, PMS2, POLD1, POLE, POT1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RECQL, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA4, STK11, SUFU, TMEM127, TP53, TSC1, TSC2, VHL, XRCC2*
38611	**Guideline-Based Hereditary Cancer Panel (32 genes)**	*APC, ATM, AXIN2, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A (p16,p14), CHEK2, EPCAM, GREM1, HOXB13, MLH1, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RAD51C, RAD51D, SMAD4, STK11, TP53*

Cancer-specific panels

Test code	Test name	Genes
38621	**Hereditary Breast Cancer Panel (16 genes)**	*ATM, BRCA1, BRCA2, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, NBN, NF1, PALB2, PMS2, PTEN, STK11, TP53*
38631	**Hereditary Colorectal Cancer Panel (19 genes)**	*APC, AXIN2, BMPR1A, CDH1, EPCAM, GREM1, MLH1, MSH2, MSH3, MSH6, MUTYH, NTHL1, PMS2, POLD1, POLE, PTEN, SMAD4, STK11, TP53*
38641	**Hereditary Endocrine Cancer Panel (12 genes)**	*FH, MAX, MEN1, NF1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL*
92587	**BRCA Panel Plus (7 genes)**	*BRCA1, BRCA2, CDH1, PALB2, PTEN, STK11, TP53*

Hereditary cancer syndrome tests

Test code	Test name	Genes
Breast cancer syndrome		
91863	**BRCA Panel**	*BRCA1, BRCA2*
91864	**BRCA Ashkenazi Jewish Screen**	Common founder variants *BRCA1* c.68_69delAG, *BRCA1* c.5266dupC, *BRCA2* c.5946delT
92140	**BRCA Ashkenazi Jewish Screen w/Reflex to BRCA Panel (*BRCA1*, *BRCA2*)**	Ashkenazi Jewish screen; if negative reflex to BRCA Panel (*BRCA1*, *BRCA2*)
91866	***BRCA1* and *BRCA2* Deletion and Duplication**	This test detects large deletion/duplication mutations in the *BRCA1* and *BRCA2* genes which are not detectable by DNA sequencing
Lynch syndrome		
91461	**Lynch Syndrome Panel (5 genes)**	*EPCAM, MLH1, MSH2, MSH6, PMS2*
Other cancer risk		
38651	**Nevoid Basal Cell Carcinoma (NBCCS) (Gorlin) Syndrome Panel (*PTCH1*, *SUFU*)**	*PTCH1, SUFU*
38661	**Tuberous Sclerosis Complex Panel (*TSC1*, *TSC2*)**	*TSC1, TSC2*
94053	**Juvenile Polyposis Panel (*BMPR1A* and *SMAD4*)**	*BMPR1A, SMAD4*
93945	**Hereditary Cancer Single Site(s)**	*APC, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN1B, CDKN2A (p16, p14), CHEK2, DICER1, EGFR, EPCAM, FANCA, FANCC, FANCM, FH, FLCN, GALNT12, GREM1, HOXB13, MAX, MEN1, MET, MITF, MLH1, MRE11 (MRE11A), MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NTHL1, PALB2, PMS2, POLD1, POLE, POT1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RECQL, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA4, STK11, SUFU, TMEM127, TP53, TSC1, TSC2, VHL, XRCC2*
See genes column	**Single-gene tests**	*APC* – 93797, *ATM* – 38802, *BAP1* – 38803, *BLM* – 38804, *CDH1* – 92568, *CDKN2A* – 93939, *CHEK2* – 93940, *EPCAM/MSH2* – 91471, *FH* – 38805, *FLCN* – 38806, *HOXB13* – 38807, *MEN1* – 93942, *MITF* – 38808, *MLH1* – 91460, *MSH6* – 91458, *MUTYH* – 93944, *NF1* – 93941, *PALB2* – 92571, *PMS2* – 91457, *PTEN* – 92566, *RET* – 93796, *SMARCA4* – 38809, *STK11* – 92565, *TP53* – 92560, *VHL* – 93943

Components of panels may be ordered separately.

Please contact **Quest Genomics Client Services at 1.866.GENE.INFO (1.866.436.3463) or visit QuestHereditaryCancer.com with questions**

Test codes may vary by location. Please contact your local laboratory for more information.

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