

Cancer Screening Gene List



Our hereditary next generation sequencing (NGS) panel covers up to ninety-nine different genes, which correspond to various types of cancer.

Subpanels are available if testing for all genes is not desired.

<u>Full Gene Name</u>	<u>Gene Abbreviation</u>
Aryl Hydrocarbon Receptor Interacting Protein	AIP
Anaplastic Lymphoma Kinase	ALK
Adenomatous Polyposis Coli	APC
Ataxia Telangiectasia Mutated	ATM
Ubiquitin Carboxyl-terminal Hydrolase	BAP1
BRCA1 Associated RING Domain 1	BARD1
Bloom Syndrome Protein	BLM
Bone Morphogenetic Protein Receptor Type 1A	BMPR1A
Breast Cancer Gene 1	BRCA1
Breast Cancer Gene 2	BRCA2
BRCA1 Interacting Protein 1	BRIP1
BUB1 Mitotic Checkpoint Serine/Threonine Kinase B	BUB1B
Cell Division Cycle 73	CDC73/ HRPT2
Cadherin 1	CDH1
Cyclin Dependent Kinase 4	CDK4
Cyclin Dependent Kinase Inhibitor 1B	CDKN1B
Cyclin Dependent Kinase Inhibitor 1C	CDKN1C
Cyclin Dependent Kinase Inhibitor 2A	CDKN2A
CCAAT Enhancer Binding Protein Alpha	CEBPA
Centrosomal Protein 57	CEP57
Checkpoint Kinase 2	CHEK2
CYLD Lysine 63 Deubiquitinase	CYLD
Damage Specific DNA Binding Protein 2	DDB2
Ribonuclease III	DICER1

Exoribonuclease 2	DIS3L2
Epidermal Growth Factor Receptor	EGFR
Epithelial Cellular Adhesion Molecule	EPCAM
ERCC Excision Repair 2	ERCC2
ERCC Excision Repair 3	ERCC3
ERCC Excision Repair 4	ERCC4
ERCC Excision Repair 5	ERCC5
Exostosin Glycosyltransferase 1	EXT1
Exostosin Glycosyltransferase 2	EXT2
Enhancer of Zeste Homolog 2	EZH2
Fanconi Anemia, Complementation Group A	FANCA
Fanconi Anemia, Complementation Group B	FANCB
Fanconi Anemia, Complementation Group C	FANCC
FA Complementation Group D2	FANCD2
Fanconi Anemia Group E Protein	FANCE
FA Complementation Group F	FANCF
Fanconi Anemia Group G Protein	FANCG
Fanconi Anemia Complementation Group I	FANCI
Fanconi Anemia Complementation Group L	FANCL
Fanconi Anemia Group M Protein	FANCM
Fumarate Hydratase	FH
Folliculin	FLCN
GATA-Binding Factor 2	GATA2
Guanine Nucleotide Binding Protein	GNAS
Glypican 3	GPC3

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Transforming Protein P21	HRAS
Kit Proto-Oncogene	KIT
MYC Associated Factor X	MAX
Menin 1	MEN1
MET Proto-Oncogene	MET
MutL Homolog 1	MLH1
MutS Homolog 2	MSH2
MutS Homolog 6	MSH6
MutY DNA Glycosylase	MUTYH
Nibrin	NBN
Neurofibromin 1	NF1
Neurofibromin 2	NF2
Nuclear Receptor Binding SET Domain Protein 1	NSD1
Partner And Localizer of BRCA2	PALB2
Paired Like Homeobox 2B	PHOX2B
PMS1 Homolog 2	PMS2
DNA Polymerase Delta 1	POLD1
DNA Polymerase Epsilon	POLE
Perforin 1	PRF1
Protein Kinase CAMP-Dependent Type I Regulatory Subunit Alpha	PRKAR1A
Protein Patched Homolog 1	PTCH1
Phosphatase and Tensin Homolog	PTEN
RAD50 Double Strand Break Repair Protein	RAD50
RAD51 Homolog C	RAD51C
RAD51 Paralog D	RAD51D
Retinoblastoma Protein	RB1
RecQ Like Helicase 4	RECQL4

RET Proto-Oncogene	RET
Rhomboid 5 Homolog 2	RHBDF2
RUNX Family Transcription Factor 1	RUNX1
SBDS Ribosome Maturation Factor	SBDS
Succinate Dehydrogenase Complex Flavoprotein Subunit A	SDHA
Succinate Dehydrogenase Complex Assembly Factor 2	SDHAF2
Succinate Dehydrogenase Complex Iron Sulfur Subunit B	SDHB
Succinate Dehydrogenase Complex Subunit C	SDHC
Succinate Dehydrogenase Complex Subunit D	SDHD
SLX4 Structure-Specific Endonuclease Subunit	SLX4
Mothers Against Decapentaplegic Homolog 4	SMAD4
SWI/SNF Related, Matrix Associated, Actin Dependent Regulator of Chromatin, Subfamily B, Member 1	SMARCB1
Serine/Threonine Kinase 11	STK11
Suppressor of Fused Homolog	SUFU
Transmembrane Protein 127	TMEM127
Tumor Protein P53	TP53
Tuberous Sclerosis 1	TSC1
Tuberous Sclerosis 2	TSC2
Von Hippel-Lindau Tumor Suppressor	VHL
Werner Syndrome ATP-Dependent Helicase	WRN
Wilms Tumor 1	WT1
Xeroderma Pigmentosum Complementation Group A	XPA
Xeroderma Pigmentosum Complementation Group C	XPC