

## **OncoAlly**<sup>®</sup> Hereditary Cancer Analyses Gene List and Associated Cancer Type

Gene	Cancer Type	Included In
ABRAXAS1	Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
ACD	Melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
ALK	Neuroblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
ΑΡΟ	Colorectal, Gastric, Other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
ATM	Breast, Pancreatic, Prostate, Brain, Lymphoid, Other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
ATR	Breast, Ovarian, Prostate, Gastric, other.	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
AXIN2	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
BAP1	Melanoma, Renal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
BARD1	Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
BLM	Mesothelioma, Lymphoma, Leukemia, other	OncoAlly® Comprehensive Hereditary Cancer Analysis
BMPR1A	Colorectal, Gastric, Other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
BRCA1	Breast, Ovarian, Prostate, Pancreatic, hematologic, other.	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® BRCA1/2 Analysis
BRCA2	Breast, Ovarian, Prostate, Pancreatic, other.	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® BRCA1/2 Analysis
BRIP1	Ovarian	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
BUB1B	Renal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis
CDC73	Parathyroid	OncoAlly® Comprehensive Hereditary Cancer Analysis
CDH1	Gastric, Breast, Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
CDK4	Melanoma, Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
CDKN1B	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
CDKN2A	Melanoma, Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
СЕВРА	AML	OncoAlly® Comprehensive Hereditary Cancer Analysis

Gene	Cancer Type	Included In
СНЕК2	Breast, Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
CLDN2	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
CPA1	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
CSF3R	AML, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
CTNNA1	Gastric	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
CTRC	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
CTR9	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
DDX41	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
DICER1	Ovarian, Thyroid, Renal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
DIS3L2	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
EGFR	Lung	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
EGLN1	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
ELP1	Meduloblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
ЕРСАМ	Colorectal, Pancreatic, Ovarian, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
ERBB2	Lung cancer, Pancreatic, Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
ETV6	ALL, AML, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
FH	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
FLCN	Renal, melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
FOCAD	Colorectal (Juvenile polyposis syndrome)	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
GALNT12	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
GATA2	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
GPC3	Renal, Neuroblastoma, Liver	OncoAlly® Comprehensive Hereditary Cancer Analysis
GREM1	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
GSKIP	AML, CMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
HOXB13	Prostate	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
HRAS	Rhabdomyosarcoma, Bladder, Neuroblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
IKZF1	ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
KIF1B	Endocrine, Brain	OncoAlly® Comprehensive Hereditary Cancer Analysis
КІТ	GIST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis

Gene	Cancer Type	Included In
LZTR1	Schwannoma, Brain, JMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
МАХ	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
MBD4	AML, Uveal melanoma, Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
MC1R	Melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
MEN1	Thyroid (MTC)	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
MET	Renal, Lymphoma	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
MITF	Melanoma, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
MLH1	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
MLH3	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
MSH2	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
MSH3	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
MSH6	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
МИТҮН	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
NBN	ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
NF1	MPNST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
NF2	Meningioma	OncoAlly® Comprehensive Hereditary Cancer Analysis
NTHL1	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
PALB2	Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
PAX5	B-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
PDGFRA	GIST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
РНОХ2В	Neuroblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
PMS2	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
POLD1	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
POLE	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
POT1	Melanoma, Brain, CLL, others	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis

PRARIA     Adveccortical     Drock/ly/Comprehensive Hereditary Cancer Analysis       PRS1     Panoratic     Drock/ly/Comprehensive Hereditary Cancer Analysis       PTCH1     Medulcolaetoma, BCC, T.ALL     Drock/ly/Comprehensive Hereditary Cancer Analysis       PTEN     Breat, Colorectal, Endometrial, other     Drock/ly/Comprehensive Hereditary Cancer Analysis       PTEN     MML, MPD     Drock/ly/Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     Drock/ly/Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     Drock/ly/Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     Drock/ly/Comprehensive Hereditary Cancer Analysis       REQL4     Otocostary Comprehensive Hereditary Cancer Analysis	Gene	Cancer Type	Included In
PHSS     Purceasiliye Common Hendellary Cancer Analysis       PTCH1     Medulobiastoma, BCC, T-ALL     Oncoality% Comprehensive Hereditary Cancer Analysis       PTEN     Breat, Colonectal, Endometrial, other     Oncoality% Common Hendellary Cancer Analysis       PTEN     IMML_MPD     Oncoality% Common Hendellary Cancer Analysis       PTPNT1     IMML_MPD     Oncoality% Common Hendellary Cancer Analysis       RADSIC     Ovarian, Breast     Oncoality% Common Hendellary Cancer Analysis       RADSIC     Ovarian, Breast, Prostate     Oncoality% Common Hendellary Cancer Analysis       REI     Retinoblastoma     Oncoality% Common Hendellary Cancer Analysis       REI     Thyroid     Oncoality% Comprehensive Hendellary Cancer Analysis       REI     Thyroid     Oncoality% Comprehensive Hendellary Cancer Analysis       REI     Thyroid     Oncoality% Comprehensive Hendellary Cancer Analysis       RMASEL     Prastate     Oncoality% Comprehensive Hendellary Cancer Analysis       RVF43     Colonectal     Oncoality% Comprehensive Hendellary Cancer Analysis       RVF43     Colonectal     Oncoality% Comprehensive Hendellary Cancer Analysis       RVF43     Colonectal     Oncoality% Comprehensive Henedlary Cancer Analysis	PRKAR1A	Adrenocortical	OncoAlly® Comprehensive Hereditary Cancer Analysis
PTEN     Breat, Colorectal, Endometrial, other     OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Comprehensive Hereditary Cancer Analysis       PTENTI     JMML, MPD     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian; Breast; Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RET     Retinoblastoma     OncoAlly® Comprehensive Hereditary Cancer Analysis       RET     Thyroid     OncoAlly® Comprehensive Hereditary Cancer Analysis       RET     Thyroid     OncoAlly® Comprehensive Hereditary Cancer Analysis       RET     Thyroid     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNESL     Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNES2     Ealorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       R	PRSS1	Pancreatic	
PTEN     Breat, Colorectal, Endometrial, other     OncoAlly® Common Hereditary Cancer Analysis       PTPN11     JMML, MPD     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSIC     Ovarian, Breast     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSID     Ovarian, Breast     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSID     Ovarian, Breast, Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RECQL     Ostosaroma, Skin     OncoAlly® Comprehensive Hereditary Cancer Analysis       RECQL     Ostosaroma, Skin     OncoAlly® Comprehensive Hereditary Cancer Analysis       RHDF2     Eophageal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNASEL     Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNASEL     Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE44     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNE43     Colorectal </td <td>PTCH1</td> <td>Medulloblastoma, BCC, T-ALL</td> <td>OncoAlly® Comprehensive Hereditary Cancer Analysis</td>	PTCH1	Medulloblastoma, BCC, T-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
RADSTC     Ovarian, Breast     OncoAlly® Comprehensive Hereditary Cancer Analysis       RADSTD     Ovarian, Breast; Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RBT     Retinoblisistoma     OncoAlly® Comprehensive Hereditary Cancer Analysis       RET     Thyroid     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNSEL     Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer	PTEN	Breat, Colorectal, Endometrial, other	OncoAlly® Common Hereditary Cancer Analysis
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RECQ14     Osteosarcoma, Skin     Oncoally® Comprehensive Hereditary Cancer Analysis       RET     Thyroid     Oncoally® Comprehensive Hereditary Cancer Analysis       RHDF2     Esophageal     Oncoally® Comprehensive Hereditary Cancer Analysis       RNASEL     Prostate     Oncoally® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     Oncoally® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     Oncoally® Comprehensive Hereditary Cancer Analysis       RPL5     Sarcoma, AML     Oncoally® Comprehensive Hereditary Cancer Analysis       RPS20     Colorectal     Oncoally® Comprehensive Hereditary Cancer Analysis       RNN743     MDS, AML, T-ALL     Oncoally® Comprehensive Hereditary Cancer Analysis       SAMD9     MDS, AML     Oncoally® Comprehensive Hereditary Cancer Analysis       SAMD9L     MDS, AML     Oncoally® Comprehensive Hereditary Cancer Analysis       SDHA     Endocrine, Renal     Oncoally® Com	RAD51D	Ovarian; Breast; Prostate	
RET     Thyroid     OncoAlly® Comprehensive Hereditary Cancer Analysis       RHBDF2     Esophageal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNASEL     Prostate     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RNF43     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RPL5     Sarcoma, AML     OncoAlly® Comprehensive Hereditary Cancer Analysis       RPS20     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RPS20     Colorectal     OncoAlly® Comprehensive Hereditary Cancer Analysis       RMN1     MDS, AML     OncoAlly® Comprehensive Hereditary Cancer Analysis       SAMD9     MDS, AML     OncoAlly® Comprehensive Hereditary Cancer Analysis       SDHA     Endocrine, Renal     OncoAlly® Comprehensive Hered	RB1	Retinoblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
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SPINK1 Pancreatic OncoAlly® Comprehensive Hereditary Cancer Analysis	SMARCE1	Meningioma	OncoAlly® Comprehensive Hereditary Cancer Analysis
	SOS1	Sarcoma, JMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
SRP72 MDS OncoAlly® Comprehensive Hereditary Cancer Analysis	SPINK1	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis
	SRP72	MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis

Gene	Cancer Type	Included In
STK11	Breast, Ovarian, Pancreatic, Colorectal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
SUFU	Medulloblastoma, BCC, T-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
TERC	AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
TERF2IP	Melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
TERT	MPN, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
TMEM127	Renal, Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
ТР53	Breast, Pancreatic, Prostate, Colorectal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
TRIM28	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
TRIP13	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
TSC1	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
TSC2	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
VHL	Renal, Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
WRN	Osteosarcoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
WT1	Renal, Brain	OncoAlly® Comprehensive Hereditary Cancer Analysis



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