



# OncoAlly<sup>®</sup> Hereditary Cancer Analyses

## Gene List and Associated Cancer Type

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

Gene	Cancer Type	Included In
<b>CHEK2</b>	Breast, Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>CLDN2</b>	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>CPA1</b>	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>CSF3R</b>	AML, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>CTNNA1</b>	Gastric	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>CTRC</b>	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>CTR9</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>DDX41</b>	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>DICER1</b>	Ovarian, Thyroid, Renal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>DIS3L2</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>EGFR</b>	Lung	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>EGLN1</b>	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>ELP1</b>	Meduloblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>EPCAM</b>	Colorectal, Pancreatic, Ovarian, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>ERBB2</b>	Lung cancer, Pancreatic, Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>ETV6</b>	ALL, AML, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>FH</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>FLCN</b>	Renal, melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>FOCAD</b>	Colorectal (Juvenile polyposis syndrome)	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>GALNT12</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>GATA2</b>	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>GPC3</b>	Renal, Neuroblastoma, Liver	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>GREM1</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>GSKIP</b>	AML, CMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>HOXB13</b>	Prostate	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>HRAS</b>	Rhabdomyosarcoma, Bladder, Neuroblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>IKZF1</b>	ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>KIF1B</b>	Endocrine, Brain	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>KIT</b>	GIST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis

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<b>LZTR1</b>	Schwannoma, Brain, JMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>MAX</b>	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>MBD4</b>	AML, Uveal melanoma, Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MC1R</b>	Melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>MEN1</b>	Thyroid (MTC)	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>MET</b>	Renal, Lymphoma	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>MITF</b>	Melanoma, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>MLH1</b>	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MLH3</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MSH2</b>	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MSH3</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MSH6</b>	Colorectal, Endometrial	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>MUTYH</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>NBN</b>	ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>NF1</b>	MPNST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>NF2</b>	Meningioma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>NTHL1</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>PALB2</b>	Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>PAX5</b>	B-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>PDGFRA</b>	GIST	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>PHOX2B</b>	Neuroblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>PMS2</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>POLD1</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>POLE</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>POT1</b>	Melanoma, Brain, CLL, others	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis

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<b>PRKAR1A</b>	Adrenocortical	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>PRSS1</b>	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>PTCH1</b>	Medulloblastoma, BCC, T-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>PTEN</b>	Breat, Colorectal, Endometrial, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>PTPN11</b>	JMML, MPD	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>RAD51C</b>	Ovarian, Breast	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>RAD51D</b>	Ovarian; Breast; Prostate	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>RB1</b>	Retinoblastoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>RECQL4</b>	Osteosarcoma, Skin	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>RET</b>	Thyroid	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>RHBDF2</b>	Esophageal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>RNASEL</b>	Prostate	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>RNF43</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>RPL5</b>	Sarcoma, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>RPS20</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>RUNX1</b>	MDS, AML, T-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SAMD9</b>	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SAMD9L</b>	MDS, AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SDHA</b>	Endocrine, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SDHAF2</b>	Endocrine, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SDHB</b>	Endocrine, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SDHC</b>	Endocrine, Renal, Sarcoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SDHD</b>	Endocrine, Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SLC25A11</b>	Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SMAD4</b>	Colorectal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>SMARCA4</b>	Rhabdoid tumor	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SMARCB1</b>	Rhabdoid tumor	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SMARCE1</b>	Meningioma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SOS1</b>	Sarcoma, JMML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SPINK1</b>	Pancreatic	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>SRP72</b>	MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis

Gene	Cancer Type	Included In
<b>STK11</b>	Breast, Ovarian, Pancreatic, Colorectal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>SUFU</b>	Medulloblastoma, BCC, T-ALL	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TERC</b>	AML	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TERF2IP</b>	Melanoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TERT</b>	MPN, MDS	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TMEM127</b>	Renal, Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TP53</b>	Breast, Pancreatic, Prostate, Colorectal, other	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis OncoAlly® Colorectal Cancer Analysis
<b>TRIM28</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TRIP13</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>TSC1</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>TSC2</b>	Renal	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>VHL</b>	Renal, Endocrine	OncoAlly® Comprehensive Hereditary Cancer Analysis OncoAlly® Common Hereditary Cancer Analysis
<b>WRN</b>	Osteosarcoma	OncoAlly® Comprehensive Hereditary Cancer Analysis
<b>WT1</b>	Renal, Brain	OncoAlly® Comprehensive Hereditary Cancer Analysis